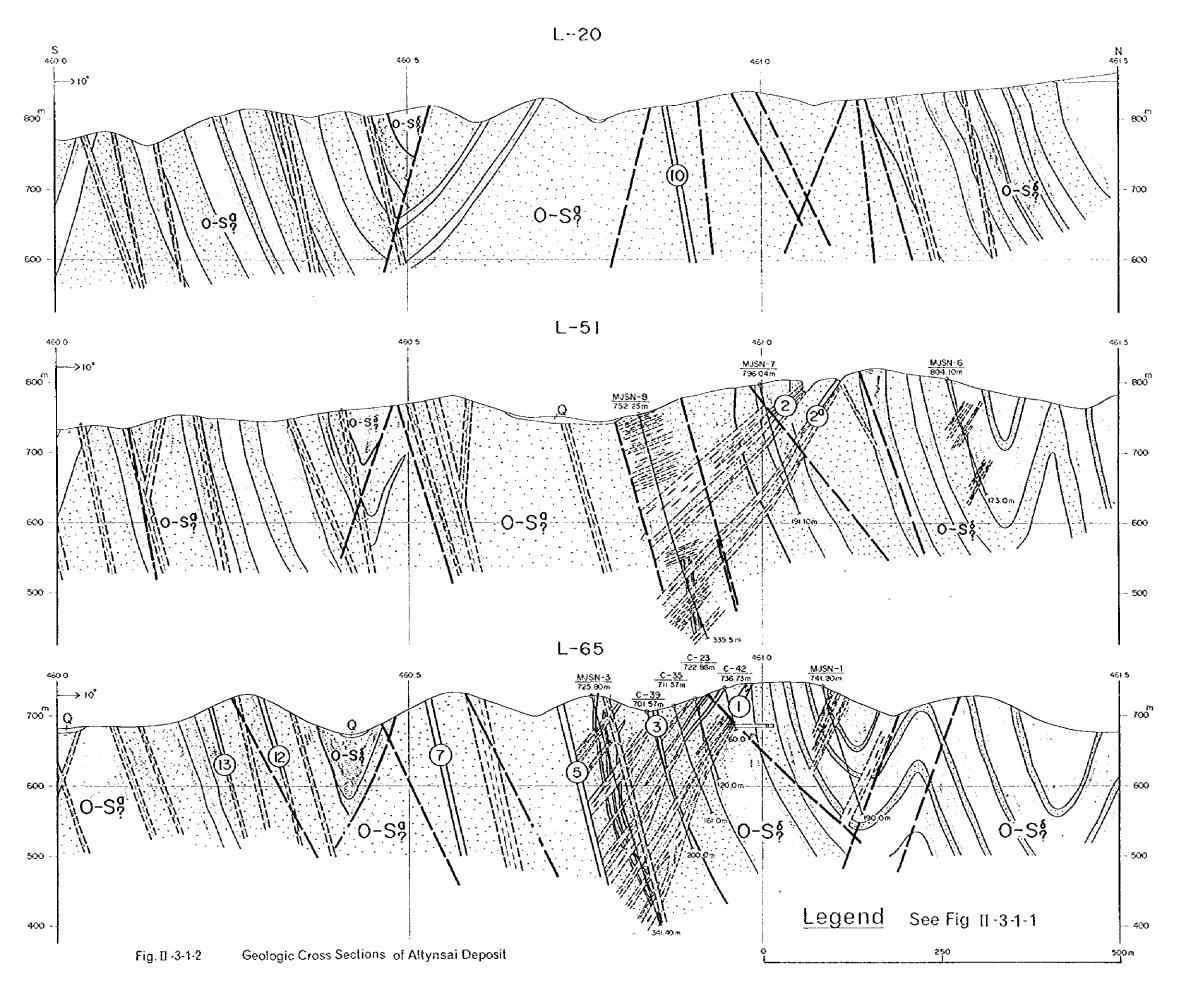
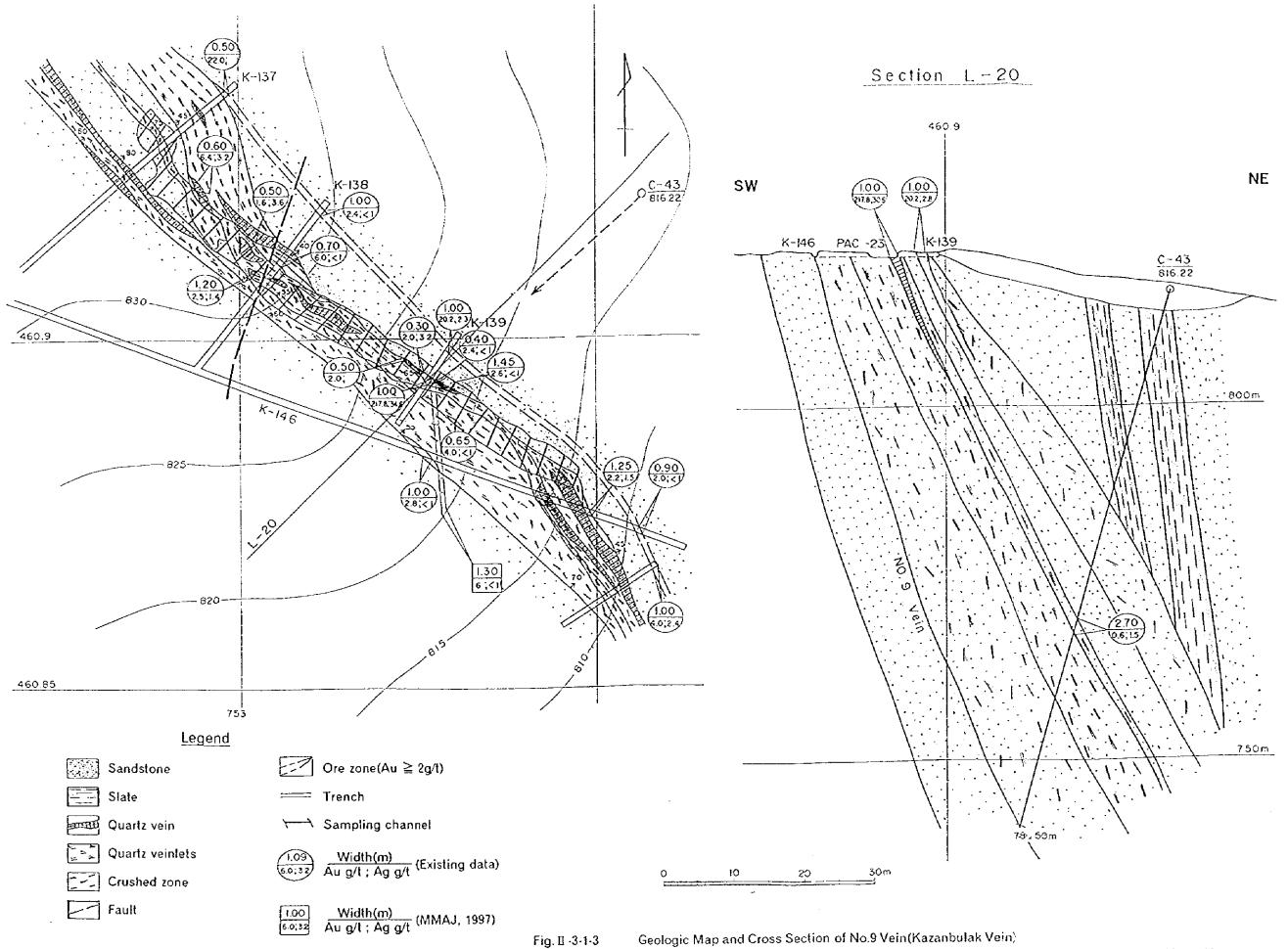


Fig. II -3-1-1 Geologic Map of Altynsai Deposit

● MJSN-1 ··· Brillhotes MMAJ (1997)







3-2 Drilling Survey

3-2-1 Purpose of the survey

In order to ascertain and describe the stratigraphy and mode of occurrence of ore deposits in the Altynsai District, drilling survey was carried out.

3-2-2 Methods of the survey

1) Survey work

With the personnel and equipment arranged by the Samarkandgeology, drilling work of 10 holes totaling 2,451.1 m was performed.

Locations of the respective drillholes are indicated in Figs. Il-3-2-1.

The drilling machines used were a unit of SKB-4, two units of SKB-41 and a unit of ZIF-650, all Russian-made, capable of drilling 300 m to 500 m in case of 76 mm dia. and 500 m to 600 m in case of 59 mm dia.

The drilling operation was done in two 12-hour shifts, with one foreman and one operator per unit, in principle.

A buldozer and a trailer were used for the transportation of drilling rigs and supplies, road construction, drill site leveling and preparations.

The normal methods and wireline methods were employed for the drilling operation in an effort to improve core recovery and work progress.

For the surface soil drilling, single diamond bits and metal bits of 93 mm dia. or 76 mm dia. were used. After reaching the rock portion, casing pipes of 89 mm dia. and 73 mm dia. were installed, and drilling operation was continued with the diamond bits of 76 mm dia. or 59 mm dia. as the final diameter. Mud water was not prepared at the drilling site but at the mud water plant of the Altynkazgan Geological party's base and transported to the drilling site by 2-m³ and 4-m³ tank trucks.

The drilling work lasted for 147 days from August 24, 1997 to January 17, 1998. The drilling lengths and core recovery by hole are tabulated in Table II-3-2-1.

The drilling efficiency, working time, consumption of drilling articles and diamond bits are shown in Table II-3-2-2 thru II-3-2-5. The main equipment used, results of work and progress record by drillhole are respectively shown in Appendices 3-1 thru 3-3.

2) Drilling operation

Particulars of the drilling operations performed are shown in Table II-3-2-6.

3-2-3 Results of the drilling survey

The survey findings are indicated in the geological cross sections along the drillholes(Figs. II-3-2-2 thru -6).

1) MISN-1 (Direction N 10°E; inclination -75°; drilling length 190.0 m) (Exploration Line L-65)

The drilling was aimed to examine mineralization in the eastern extension of No.8 vein(the northwest vein) at the 900 m point, from the surface to an approximate depth of 150 m.

- (1) Geology: Except the near-surface portion, the drillhole is composed of slate of the Middle Formation of Ordovician to Silurian Systems, accompanied by sandstone.
- (2) Mineralization: As shown in Fig. II-3-2-2, no showings of mineralization grading Au 1.0 g/t or more was found.

i }

2) MISN-2 (Direction S 10°W; inclination -75°; drilling length 160.1 m) (Exploration line L-81)

The drilling was aimed to explore a silicified zone (No.11 vein, 0.65 m wide, grading Au 19.2 g/t) accompanied by quartz veins, as confirmed in the trenches K-221 and K-53 excavated by the Uzbek side, from the surface to an approximate depth of 150 m.

- (1) Geology: Except for the near-surface, it consists of slate of the Middle Formation of Ordovician to Silurian Systems up to 22.8 m in depth, after which it changes mainly to sandstone of the Lower Formation of the same system, accompanied by slate.
- (2) Mineralization: As seen in Fig. II-3-2-3, no mineralization showings grading Au 1.0 g/t or higher was discovered.
- 3) MISN-3 (Direction N 10°E; inclination -75°; drilling length 341.4 m) (Exploration line L-65)

The drilling was aimed to examine mineralization in the veins parallel with the hanging side of No.1 vein and also that in the No.1 vein from the surface to an approximate depth of 300m.

- (1) Geology: Except for the near-surface, it consists mainly of sandstone of Lower Formation of Ordovician to Silurian Systems, accompanied by slate.
- (2) Mineralization: At various locations in the lower part of No.1 vein and its hanging side, gold mineralization accompanied by quartz veins-veinlets containing tourmaline, pyrite and arsenopyrite was found, as seen in Fig. II-3-2-2. The mineralization showings are tabulated in Table II-3-2-7.
- 4) MJSN-4 (Direction N 10°E; inclination -75°; drilling length 320.0 m) (Exploration line L-61)

The drilling was intended to examine mineralization some 150 m beneath the bonanza of No.1 vein, which was confirmed in the +698.89 m addit, and also that of No.2 vein from the surface to an approximate depth of 250 m.

- (1) Geology: Except the near-surface portion, the drillhole is composed mainly of sandstone of Lower Formation of Ordovician to Silurian Systems.
- (2) Mineralization: As seen in Fig. II-3-2-4, the drilling revealed mineralization accompanied by quartz veins-veinlets containing tourmaline, pyrite and arsenopyrite in the lower part of No.5 vein, while, near the lower part of No.1 vein, low-grade gold mineralization accompanied by quartz veins-veinlets containing tourmaline, pyrite and arsenopyrite was found. The showings of mineralization are listed in Table II-3-2-7.
- 5) MJSN-5 (Direction N10°E; inclination -75°; drilling length 320.0m) (Exploration line L-57)

)

The drilling was aimed to examine mineralization in the western extension of No.1 vein from the surface to an approximate depth of 150 m and also that in the portion some 120 m beneath the bonanza of No.2 vein, which was confirmed in the +698.89 m addit.

- (1) Geology: Excepting the near-surface portion, it consists mainly of sandstone of the Lower Formation of Ordovician to Silurian Systems.
- (2) Mineralization: As shown in Fig. II-3-2-5, the drilling revealed in the lower part of No.5 vein gold mineralization accompanied by quartz veins-veinlets containing tourmaline, pyrite and arsenopyrite. Furthermore, low-grade gold mineralization accompanied by quartz veins-veinlets containing tourmaline, pyrite and arsenopyrite was found near the lower part of No.2 vein and in the veins parallel with the foot wall. The showings of mineralization are indicated in Table II-3-2-7.
- 6) MJSN-6 (Direction N 10°E; inclination -75°; drilling length 173.0 m) (Exploration line L-51)

The drilling was intended to grasp mineralization at the 300 m point of the eastern extension of No.8 vein(the northwest vein) from the surface to an approximate depth of 130m.

- (1) Geology: Except the near-surface portion, it consists mainly of sandstone of the Middle Formation of Ordovician to Silurian Systems, accompanied by slate.
- (2) Mineralization: As Fig. II-3-2-6 indicates, no mineralization showings grading Au 1.0 g/t or higher was found.
- 7) MJSN-7 (Direction N10° E; inclination -75°; drilling length 191.1 m) (Exploration line L-51)

The drilling was aimed to examine mineralization in the western extension of No.1 vein from the surface to an approximate depth of 50m and also that in the western extension of No.2 vein some 100 m beneath the surface.

- (1) Geology: Except the near-surface portion, it is composed mainly of slate of the Middle Formation of Ordovician to Silurian Systems.
- (2) Mineralization: A dominant quartz vein-veintet zone containing pyrite and arsenopyrite was encountered between 115.5 m and 145.2 m in depth, which corresponds to the No.2 vein; however, no showings of mineralization grading Au 1.0 g/t or more were found, as indicated in Fig. II-3-2-6.
- 8) MJSN-8 (Direction N 10°E; inclination -75°; drilling length 335.5 m) (Exploration line L-51)

The drilling was intended to examine mineralization in the western extension of No.1 vein from the surface to an approximate depth of 250 m and also that in the western extension of No. 2 vein from the surface to an approximate depth of 300 m.

- (1) Geology: Except for the near-surface portion, it is composed mainly of sandstone of the Lower Formation of Ordovician to Silurian Systems.
- (2) Mineralization: The drilling revealed gold mineralization accompanied by dominant quartz veins-veinlets containing tourmaline, pyrite and arsenopyrite, between 229.3 m and 246.3 m in depth, which corresponds to the No. 2 vein. At the drillhole, many quartz veinlet zones containing tourmaline and arsenopyrite, presumably with the N-S trend, were seen, accompanied by low-grade gold mineralization at various locations. The showings of mineralization are indicated in Fig. It-3-2-6.
- 9) MJSN-9 (Direction N 10°E; inclination -80°; drilling length 200.0 m) (Exploration line L-57)

The drilling was intended to examine mineralization in the western extension of No. 1 vein from the surface to an approximate depth of 70 m and also that in the portion some 70 m beneath the bonanza of No.2 vein, which was ascertained in the +698.89 m addit.

- (1) Geology: Except for the near-surface portion, it consists mainly of sandstone of the Lower Formation of Ordovician to Silurian Systems, accompanied by slate.
- (2) Mineralization: As shown in Fig. II-3-2-5, many quartz veinlet zones containing tourmaline and arsenopyrite, presumably with the N-S trend, were encountered, accompanied by low-grade gold mineralization at various locations. Although quartz veins-veinlets were confirmed around the anticipated locations of the Nos.1 and 2 veins, their mineralization showings are weak. The showings of mineralization are indicated in Table II-3-2-7.
- 10)MJSN-10 (Direction N 10°E; inclination -75°; drilling length 220.0 m) (Exploration line L-61)

The drilling was aimed to examine mineralization some 50 m beneath the bonanza of

No.1 vein, which was confirmed in the +698.89 m addit and also that in the No.2 vein from the surface to an approximate depth of 150 m.

- (1) Geology: Excepting the near-surface portion, it consists mainly of sandstone of the Lower Formation of Ordovician to Silurian Systems, accompanied by slate.
- (2) Mineralization: As shown in Fig. II-3-2-4, the drilling revealed low-grade gold mineralization accompanied by quartz veins-veinlets containing tourmaline, pyrite and arsenopyrite around the lower part of No.1 and No.2 veins. Showings of mineralization are indicated in Table II-3-2-7.

3-3 Summary and Considerations

The District is underlain by Ordovician-Silurian slate, siltstone, sandstone, phyllite and lower Silurian slate, siltstone and sandstone, which are intruded by lamprophyre dikes. Sedimentary rocks and metamorphic rocks in the District are folded in anticline and syncline trending in the WNW-ESE direction, where many fracture zones with the WNW-ESE and NW-SE trends and joints with the N-S trend develop. Ore deposits in the District are gold-bearing quartz veins controlled by many fracture zones with the WNW-ESE and NW-SE trends, or tourmaline-quartz veins with the N-S trend. More than 20 ore zones have been confirmed in the District, which include the veins Nos. 1, 2, 5, 8 ("Northwest Vein"), 9 ("Kazanbulak Vein") and 10 ("Berkut Vein").

Fracture zones with the WNW-ESE trend that control the Nos. 1 and 2, major veins of the northern ore zone, dips 45° to 70° southward., whilst a fracture zone with the same trend that controls the Nos. 5, 6, 7 and 12 veins of the southern ore zone dips 70° to 80° northward. Which of the fracture zones that have the same trend but dip in different directions continues to a greater depth after intersecting has been unclarified. In view of the fact that fracture zones dipping north outnumber those dipping south, it is likely that fracture zones in the southern ore zone continue into the deep, thereby forming main ore bodies and that the No.1 and No.2 veins are their branch veins.

Inumerable joints trending in the N-S direction and dipping 45° to 80° westward develop in an area, 2.5 km long and 500 m to 800 m wide, which embraces the Nos, 1, 2, 5, 8 and 10 veins. In these joints, tourmaline-quartz veinlets, 0.1 cm to 25 cm wide, occur (Figs. II-3-3-1 and - 2). The veinlet zone almost coincides with the biotite-muscovite hornfels zone. From the anomalies (20-60 gamma) detected by the Uzbek airborne magnetic prospecting, it has been inferred that granite stocks exist aligned in the WNW-ESE direction under the veinlet zone. The veinlet zone is considered to be tourmaline greisen formed by "pneumatolysis" of granites in cross joints formed by upward intrusion of the granite stocks. The drilling survey executed in the subject year indicates that the gold grade of the tourmaline-quartz veinlet zone is 0.3 g/t to 1.0 g/t, partially 2 - 5 g/t. Portions where veinlets are concentrated and gold grade exceeds 1-1.5 g/t may be mined by

open pit.

Component minerals in quartz veins occurring in the fracture zone with the WNW-ESE and NW-SE trends are mainly quartz, pyrite, marcasite, arsenopyrite, chalcopyrite, sphalerite, goethite and lepidochrocite, accompanied by galena, native bismuth, aikinite, wittichenite, scheelite, rutyle and electrum.

Electrum identified in the polished sections is 5-10 tm in grain size and occurs in quartz, associated with chalcopyrite, native bismuth and wittlehenite in vein-like alignment but is independently existing without contact with the other minerals. Of the tourmaline-quartz veins accompanying the joints with the N-S trend, main component minerals are quartz, tourmaline, pyrite and arsenopyrite. While the Uzbek study indicates that wolframite, cassiterite, topaz, beryl and native gold are included, it was not verified in the subject survey.

Homogenization temperature of ores of the Altynsai deposit is generally 250°C to 350°C, some of veins in the WNW-ESE and NW-SE directions indicate 110°C to 200°C. Homogenization temperature of the tourmaline quartz veins is 250°C to 340°C (Appendix 2-8).

Out of the seven drillholes MJSN-3, -4, -5, -7, -8, -9 and -10 aimed at the lower portions of the No.1 and No.2 veins of the Altynsai deposit, the drilling MJSN-8 caught a dominant gold-bearing quartz vein (true width 1.6 m; Au 15.3 g/t) in the No.2 vein some 250 m under the surface. The MJSN-4 and -10 confirmed a low-grade gold mineralization zone in the lower portion of the No.1 vein, while the MJSN-5 also confirmed a low-grade gold mineralization zone in the lower portion of the No.2 vein and also in a vein parallel with the footwall side of the No.2 vein. The MJSN-3 confirmed gold mineralization zones in three veins parallel with the hanging side of the No.1 vein. The MJSN-4 and -5 caught in the lower portion of the No.5 vein a gold mineralization zone accompanied by quartz veinlets. Beside, MJSN-8, -9, and -10 confirmed a low-grade mineralization zone in a quartz-tourmatine-arsenopyrite veinlet swarm presumably with the N-S trend.

The MJSN-1, -2 and -7 did not come across a mineralization zone grading Au 2.0 g/t or higher. As the result of the drilling survey of the subject fiscal year, relatively substantial mineralization was caught on the hanging side of the No.1 vein and in the No.5 vein, whilst no dominant mineralization was encountered in the major veins such as Nos. 1 and 2, except the MJSN-8. The MJSN-4 and -10 aimed at the lower portion of the drift of the No.1 vein where strong gold mineralization has been confirmed (extension 135 m; average width 2.29 m; Au 15.7 g/t) only caught low-grade mineralization (true width 0.95 m; Au 5.8 g/t). The MJSN-5 and -9 aimed at the lower portion of the drift of the No.2 vein (extension 55 m; average width 4.28 m; Au 4.5 g/t) also resulted in finding low-grade mineralization (true width 1.91 m; Au 2.1 g/t). It is due presumably to these ore bodies

being small in size and ununiform in grade distribution that no remarkable gold mineralization was caught by drilling at promising zones.

Table II -3-2-1 Quantity of Drilling Works and Core Recovery in the Altynsai District

Hole No.	Programmed Length(m)	Drilled length (m)	Length of core (m)	Core recovery (%)
MJSN-1	190.00	190.00	155.95	83.0
MJSN-2	160.00	160.10	129.70	82.9
MJSN-3	400.00	341.40	275.55	81.2
MJSN-4	300.00	320.00	261.40	82.3
MJSN-5	320.00	320.00	269.20	84.8
MJSN-6	130.00	173.00	144.80	84.1
MJSN-7	180.00	191.10	176.00	92.6
MJSN-8	320.00	335.50	278.10	83.4
MJSN-9	200.00	200.00	171.70	87.6
MJSN-10	200.00	220.00	188.25	86.0
Total	2,400.00	2,451.10	2,050.65	84.4

Table II-3-2-2 Efficiency of Each Drillhole in the Altynsai District (1)

1)

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Hole No.	Drilling	Working	Drilling	0	Core	Λ	Working Day	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Efficiency	
	Machine	Period	Length (m)	Length (m)	Recovery (%)	Drilling* (day*)	Others (day)	Total** (dav**)	m/day*	m/day**	m/working Period
MJSN-1	SKB-4	Aug.24.'97 ↓	190.00	155.95	83.0	20.2	9.2	29.4	9.41	6.46	4.87
		Oct. 1,397								• •	
		Oct. 5, 97									
MJSN-2	SKB4	→	160.10	129.70	829	16.5	123	28.8	9.70	5.56	3.08
		Nov.25,'97									
		Aug.29,'97									
MJSN-3	SKB41	→	341.40	275.55	81.2	50.1	54.2	104.3	6.81	3.27	2.80
		Dec.28.797									
		Sept.14,'97									
MJSN4	SKB41	→	320.00	261.40	82.3	42.7	13.2	55.9	7.49	5.72	4.16
		Nov.29,'97									
		Sept.22, '97									
MJSN-5	ZIF-650	→	320.00	269.20	84.8	35.1	11.2	46.3	9.12	6.91	5.93
		Nov.14,'97			•						
		Sept.10,'97									
9NSIW	SKB41	>	173.00	14.80	3	14.0	8.9	20.8	12.36	8.32	6.41
		Oct. 6,'97									
		Sept.22,'97									
MJSN-7	SKB4	→	191.10	176.00	92.6	20.6	93	29.9	9.28	6:39	5.03
		Oct.29, '97									

includes drilling and out drilling

** includes drilling, out drilling, regain of accident, preparation, dismount/mobilization and others.

Table II-3-2-2 Efficiency of Each Drillhole in the Altynsai District (2)

Hole No.	Dalling	Working	Drilling		Core	^	Working Day	,		Efficiency	
}	Machine	Period	Length (m)	Length (m)	Recovery (%)	Drilling* (dav*)	Otbers (dav)	Total** (dav**)	m/day*	m/day**	m/working Period
MJSN-8	ZIF-650	Oct 29,'97	335.50	278.10	83.4	37.2	26.1	63.3	20:6	5.30	4.19
WISN-9	SKB-41	Jan.16, 98 Nov.26, 97 \$\\$\\$\\$\$\$ 120, 17, 98	200:00	171.70	87.6	24.8	21.8	46.6	8.06	4.29	3.77
MJSN-10	SKB-4	Nov.19,'97 Usan, 3,'98	220.00	188.25	86.0	28.4	11.7	40.1	7.75	5.49	4.78
	-										
:											
	Total		2,451.10	2,050.65	84.4	289.6	175.8	465.4	8.46	5.27	4.17

includes drilling and out drilling

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^{**} includes drilling, out drilling, regain of accident, preparation, dismount/mobilization and others.

Table II-3-2-3 Working Time of Diamond Drilling in the Altynsai District (1)

1

	Working Period	Period	Number of Works	of Works				Working			
Hole No.	Period	(day)	Foreman	Worker	Drilling	Out	Regain of	Preparation	Dismount/	Others	Total
						Drilling	Accident		Mobilization		ar ar . v.
			(man)	(man)	(hour)	(hour)	(hour)	(hour)	(hour)	(hour)	(hour)
MISN-1	Aug.24,'97	30	6	115	158.0	327.0	87.0	0.6	25.0	0.66	705.0
	Oct. 1.'97		ı								
	Oct. 5,'97										
MJSN-2	→	25	7	101	132.5	362.5	85.0	0.0	24.0	186.0	0.069
	Nov.25.'97										
	Aug.29,'97	;	,								
MJSN-3	→	122	274	88	393.5	809.5	1,053.0	36.0	0.50	126.0	2,502.0
	Dec.28.'97										
	Sept.14,'97										NA PERM
MJSN4	→	11	159	137	291.5	732.5	188.0	0.0	48.0	81.0	1,41.0
	Nov.29,'97					1					
	Sept.22, '97			-				,		:	
MJSN-5	→	ĸ	133	148	283.0	259.0	1420	0.09	21.0	45.0	1,110.0
	Nov.14,'97						1				
	Sept.10, '97										
9-NSIW	>	7.7	3 6	\$6	126.5	208.5	47.0	18.0	33.0	65.0	498.0
	Oct. 6.'97										
	Sept.22, '97										
MJSN-7	>	 88	82	107	158.5	335.5	94.0	0.0	33.0	0.96	717.0
	Oct 29, '97]

Table II-3-2-3 Working Time of Diamond Drilling in the Altynsai District (2)

	Working Period	Period	Number of Works	of Works				Working			
Hole No.	Period	(day)	Foreman	Worker	Drilling	ort O	Regain of	Preparation	Dismount/	Others	Total
			(man)	(man)	(нош)	Unding (hour)	Accident (hour)	(hour)	Moonization (hour)	(hour)	(hour)
WJSN-8	Oct. 29, '97	.8	173	178	338.5	554.5	463.0	0.6	90.0	63.0	1,518.0
6-NSIW	Nov.26,'97 \$\psi\$ Jan.17,'98	53	150	154	184.5	409.5	390.0	9.0	72.0	54.0	1,119.0
MJSN-10	Nov.19,'97 ↓ JAn. 3.'98	46	114	143	245.0	437.0	170.0	9.0	48.0	54.0	963.0
										-	
Total	1	588	1,311	1,486	2311.5	4,635.5	2,719.0	150.0	478.0	0.698	11,163.0

Table II-3-2-4 Consumable Drilling Articles in the Altynsai District

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Item	Specifi-	Chit						Quantity					
	cation		MJSN-1	MJSN-2	MJSN-3	MJSN-4	S-NSIW	9-NSDW	MISN-7	WISIN-8	6-NSIW	MISN-10	Total
Bentonite		kg						:					0
Clear mud		kg	310				450	280	250				1300
NI mud water		ın,	143	62	217	194	165	108	28	136	119	83	1324
C.M.C		kg					ନ		10				8
UNIFLOK		38 38		70	480	200				270	Si	190	1,460
Clay		kg		240	810	059				099	790	480	3,610
Diamond bit	93mm	8.		1						1			73
Diamond bit	76mm	æ	1	1	18	1	1	1	г	1			x
Diamond bit	59mm	8	11	6	(1	15	15	10	10	16	14	11	113
Diamond single bit	59mm	æ									æ		n
Diamond reamer	76mm	8			3								m
Diamond reamer	59mm	8	1	3	1	3	3	1	1	4	5	4	33
Metal crown	112mm	8											0
Metal crown	93mm	ጸ		1	2								4
Metal crown	76mm	8	1	53		ĭ	1	7	C3	-	H		g
Metal shue	89mm	æ	-:	1	2		-			1		1	S
Metal shue	73mm	8	1	1		1	1	F-1	ī	ı	7	1	0,
			-										
									<u> </u>				
core box			21	25	46	4	38	ଖ	21	46	ន	કા	318

Table II-3-2-5 Drilling Meterage of Diamond Bits in the Altynsai District

Efficiency	M/bit	2:00	7.00	8.50	8.4	00.6	4.50	3.00	430	7.00	3.70	18.06	13.93	16.64	16.84	8.10	20 15	22.07	20.73	16.85	18.81	20.39	13.79	19.66	18.32	17.38
	Total	2:00	2.8	05.8	4.00	00.6	4.50	3.00	4.30	7.00	3.70	325.20	376.20	183.00	151.60	16.20	200	316.00	311.00	168.50	188.10	326.20	193.00	216.30	2,069,90	2451.10
	MJSN-10	 									3.70		3.70						·—·					216.30	21630	220.00
	6-NSIW				!					7.00			7:00										193.00		193.00	200:00
	WISN-8	800							430				430									326.20			32620	335.50
(E	MISN-7			T-				300					300								188.10				188.10	191.10
Drilling Meterace by Drillhole (m)	MSN-6						057						05.4							168.50				:	168.50	173.00
ing Meterace	MJSN-5					80	200						000						311.00						311.00	320.00
	MISN4				8,	3							400	3				316.00							316.00	320.00
	MISN-3											325.30	325.30	Vienturic			16.20	•							1620	341.40
	CNSIM			030	S					- †			000	000	3	DD.LCI									151.60	160.10
	MISN.1	Taronat	5	GY.									50,0	AV. 2	183:W										183.00	190.00
Nihono	bits (pcs)	, ,			-	-	- -	-	-	-	-	۲ ٥	or E	/7	TT	2	Ċŝ	15	15	٥	2 2	2 4	21	-	113	
00	3776	90,7	mmovo	Ø 76mm										Sub Total	ф29mm										Sub total	Grand total

Table II-3-2-6 Results of Drilling Works in the Altynsai District

;)

Hole No.	No.	MJSN-1	MJSN-2	WISN-3	MJSN4	S-NSIM	9-NSIM	7-NSIW	WISN-8	6-NSIW	MJSN-10
ž U	Direction	N10°E -75°	S10°W -75°	N10°E -75°	N10°E	N10°E	N10°E -75°	N10°E	N10°E	N10°E -80°	N10°E -75°
	ww ø								!		2
	ф93тт								5.00		
(m)	φ76mm	7.00	8.50	325.20	4.00	00.6	4.50	3.00	430	7.00	3.70
	φ59mm	183.00	151.60	16.20	316.00.	311.00	168.50	188.10	326.20	193.00	216.30
	mm ø							:			
	mm ø										
	ww ø			· ———·							
	mm ø										
	φ89mm		1.00	29:00					2.00		4.00
Casing (m)	φ73mm	23.00	22.60		5.00	00.6	450	25.00	930	7.00	11.60
	φ mm								—		
	ww ø										
١										*	

Major Mineralization Zones Revealed by Drillings in the Altinsai District(1) Table II -3-2-7

Remarks	0.001 parallel vein(hanging wall side) of No.1 Vein	0.008 parallel vein(hanging wall side) of No.1 Vein	0.01 No.5 Vein	0.003 No.5 Vein	0.003 No.5 Vein	0.004 No.5 Vein	0.002 No.5 Vein	0.004 No.5 Vein	0.01 No.1 Vein Upper	0.01 No.1 Vein Upper	0.68 No.2 Vein Upper	0.003 No.5 Vein	0.005 No.5 Vem	0.07 No.5 Vein	0.004 No.5 Vein	0.005 No.5 Vein	0.004 No.5 Vein	0.002 No.2 Vein Upper	0.003 No.2 Vein Upper	0.001 parallel vein(foot wall side) of No.2 Vein	0.002 parallel vein(foot wall side) of No.2 Vein	<0.001 parallel vein(foot wall side) of No.2 Vein
% %	0.001	0.008	0.01	0.003	0.003	0.004	0.003	0.004	0.01	0.01	0.68	0.003	0.005	0.07	0.004	0.005	0.004	0.003	0.003	0.001	0.002	
As (%)	<0.01	<0.01	0.02	0.04	0.04	0.07	0.02	0.37	0.02	0.1	0.03	0.05	0.01	0.01	0.01	2.2	0.05	0.1	90.0	0.03	0.04	0.14
Ag (g/t)	7	۲۷	2.4	₩	3.8	7	9.0	6.4	7	7	\\\\	2.2	7	7	2.0	9.	1.4	7	⊽	⊽	7	⊽
Au (g/t)	23.6	3.2	10.3	ж ж	11.2	3.4	2.4	2.2	3.8	63	5.8	3.0	2.4	23.	2.4	16.4	3.6	2.8	2.1	2.0	3.2	2.8
True width	0.95	0.78	0.15	0.1	0.11	0.15	0.43	0.24	0.87	1.04	0.89	0.44	0.24	0.39	0.36	0.21	0.22	0.4	1.98	0.87	62.0	0.32
Depth	73.8 - 75.0 (1.2)	134.6 - 135.6(1.0)	77.95 - 79.2(1.25)	85.5 - 86.3 (0.8)	87.6 - 88.5 (0.9)	103.8 - 105.0(1.2)	155.1 - 157.55(2.45)	182.0 - 183.4(1.4)	188.9 - 189.9(1.0)	194.4 - 195.6(1.2)	234.9 - 236.0(1.1)	19.5 - 21.3 (1.8)	23.3 - 24.3 (1.0)	28.6 - 30.2 (1.6)	48.2 - 49.7 (1.5)	72.0 - 73.0 (1.0)	84.0 - 85.0 (1.0)	177.2 - 177.65(0.45)	180.3 - 182.5(2.2)	273.4 - 274.5(1.1)	279.2 - 280.2(1.0)	315.1 - 315.5(0.4)
Hole	MJSN-3		MJSN.4									MJSN-5										

Major Mineralization Zones Revealed by Drillings in the Altinsai District(2) Table II -3-2-7

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Hole	Depth	True width	Au	Ag	As	W	,
No.	(m)	(m)	(g/t)	(g/t)	(%)	(%)	Kemarks
MJSN-8	80.4 - 80.8 (0.4)	0.39	2.2	⊽	0.12	0.02	0.02 vein N-S system
	148.9 - 149.9(1.0)	0.91	3.0	∇'	0.08	0.003	0.003 No.1 Vein
	159.6 - 160.6(1.0)	0.87	23.88	⊽′	0.03	0.02	0.02 vein N-S system
	179.2 - 180.2(1.0)	0.99	3.6	5.6	0.14	0.003	0.003 vein N-S system
	186.0 - 186.7(0.7)	0.61	2.0	⊽'	0.07	0.08	0.08 No.2 Vein Upper
	238.1 - 239.1(1.0)	0.87	2.0	∀	0.22	0.002	0.002 No.2 Vein Lower
	241.15 - 243.0(1.85)	1.6	15.3	0.7	0.23	0.003	0.003 No.2 Vein Lower
	254.3 - 255.2(0.9)	0.77	6.2	ä	0.15	0.48	0.48 No.2 Vein Lower
	315.0 - 315.8(0.8)	0.67	2.4	1.6	0.06	0.004	0.004 parallel vein(foot wall side) of No.2 Vein
WJSN-9	73.6 - 73.8 (0.2)	0.19	2.0	7	0.04	0.002	0.002 vein N-S system
	93.5 - 94.2 (0.7)	0.69	4.6	3.4	0.04	0.002	0.002 vein N-S system
	94.9 - 96.0 (1.1)	1.09	2.2	4.6	0.08	0.007	0.007 vein N-S system
MJSN-10	120.1 - 120.45(0.35)	0.3	. S. 7	∇'	0.03	0.002	0.002 No.1 Vein Lower
	125.3 - 125.58(0.28)	0.24	6. 8.	3.4	2.26	0.08	0.08 No.1 Vein Lower
	162.3 - 163.4(1.1)	0.99	2.0	2.4	0.02	0.002	0.002 No.2 Vein Upper



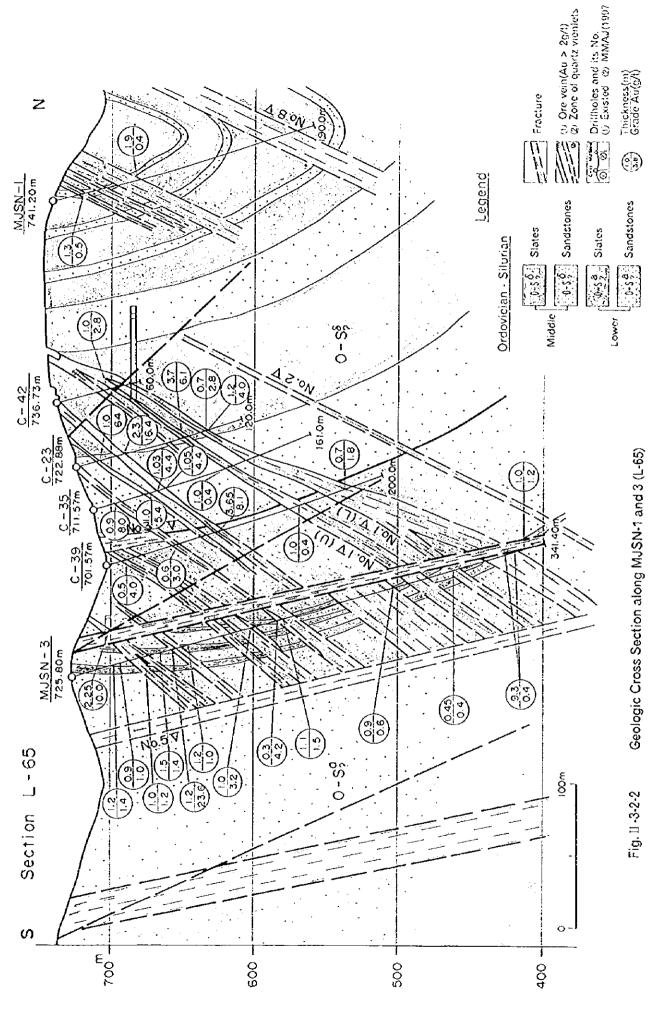
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Fig. II -3-2-1 Location Map of the Drittholes in Altynsai District

• MJSN-1 ··· Orillholes MMAJ [1997]

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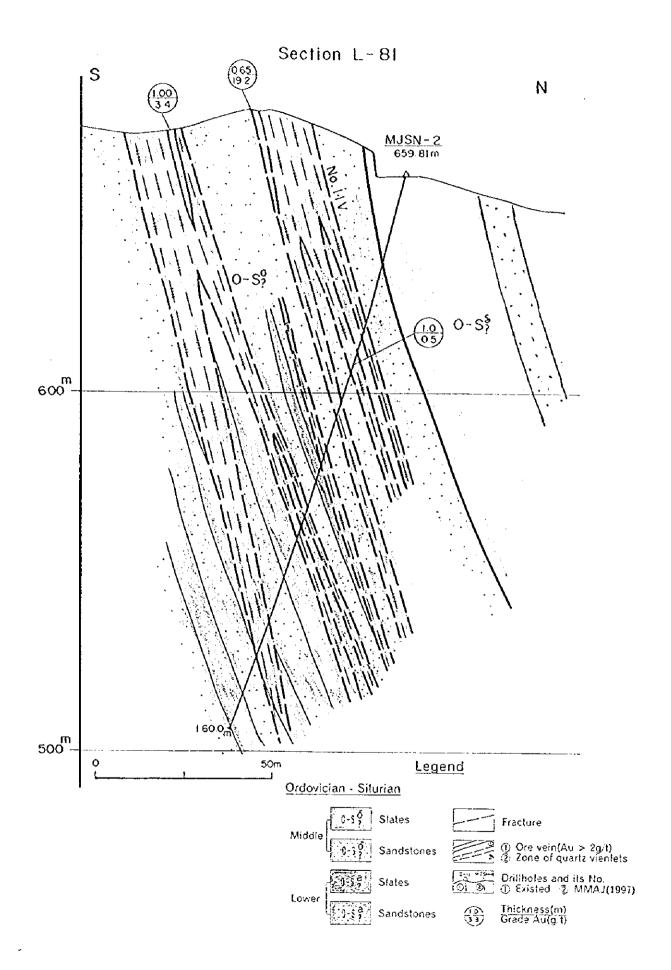


Fig. II -3-2-3 Geologic Cross Section along MJSN-2 (L-81)

		3

Section L - 61

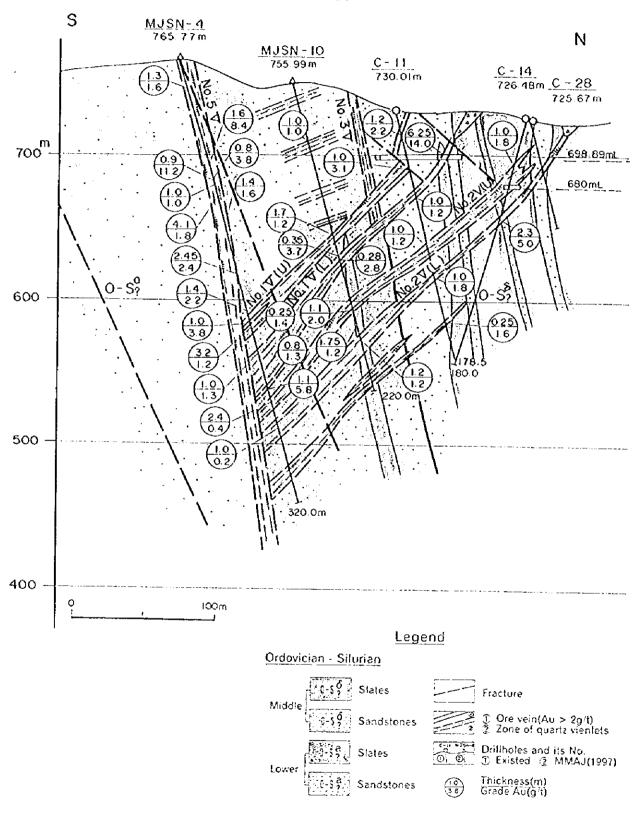


Fig. II -3-2-4 Geologic Cross Section along MJSN-4 and 10 (L-61)



Section L-57

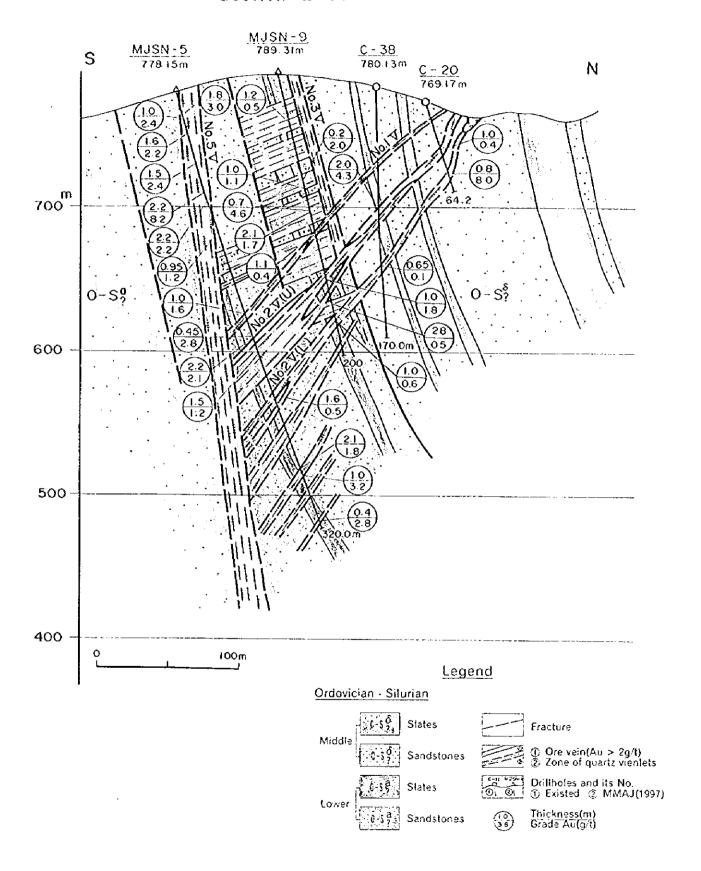
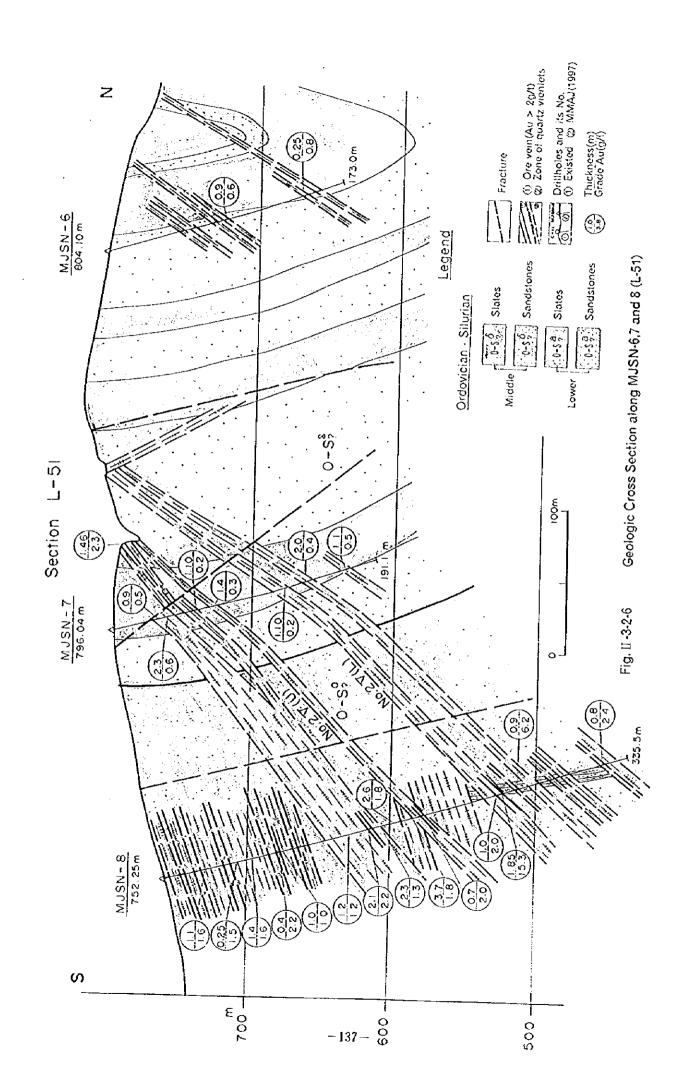


Fig. II -3-2-5 Geologic Cross Section along MJSN-5 and 9 (L-57)







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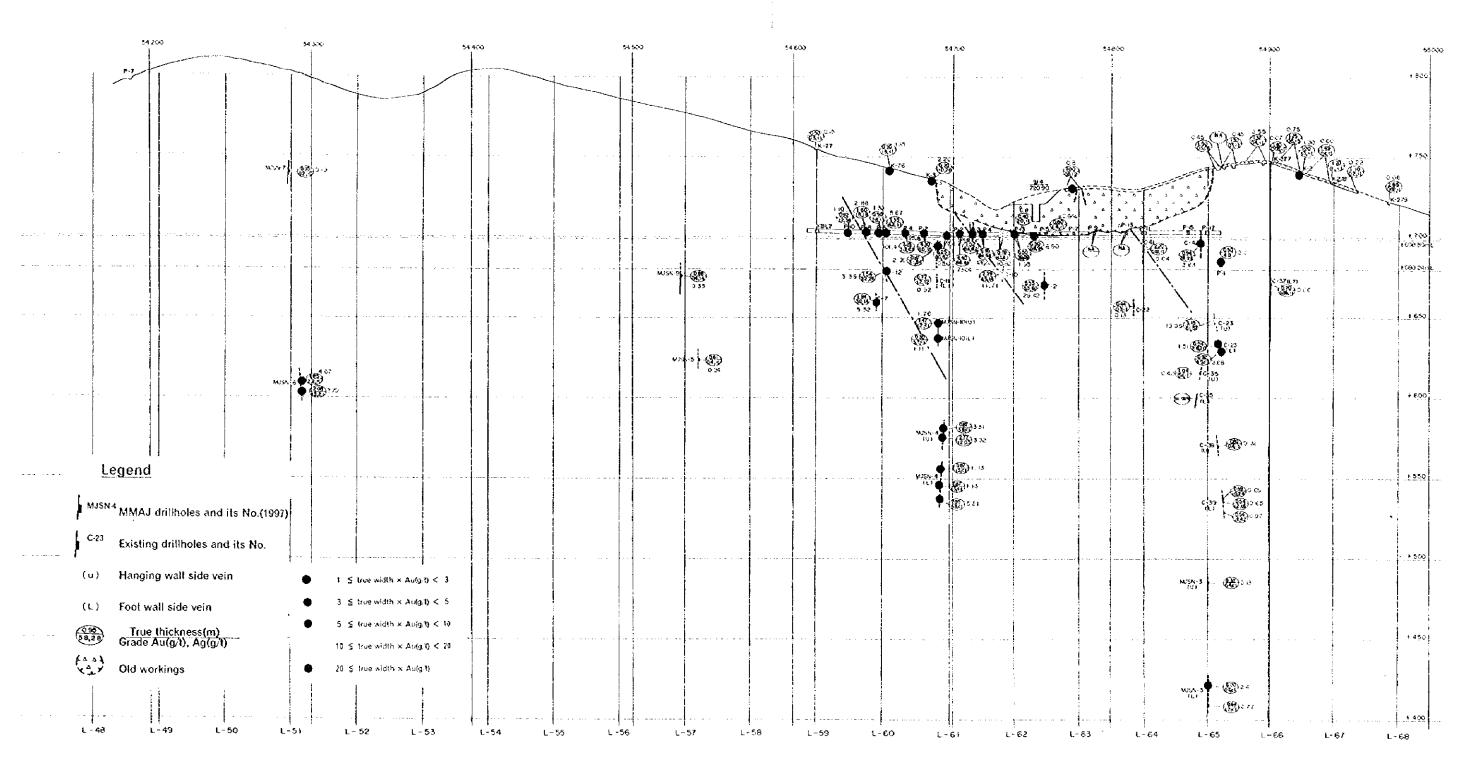


Fig. II -3-2-7 Perspective Section for Altynsai No.1 Vein

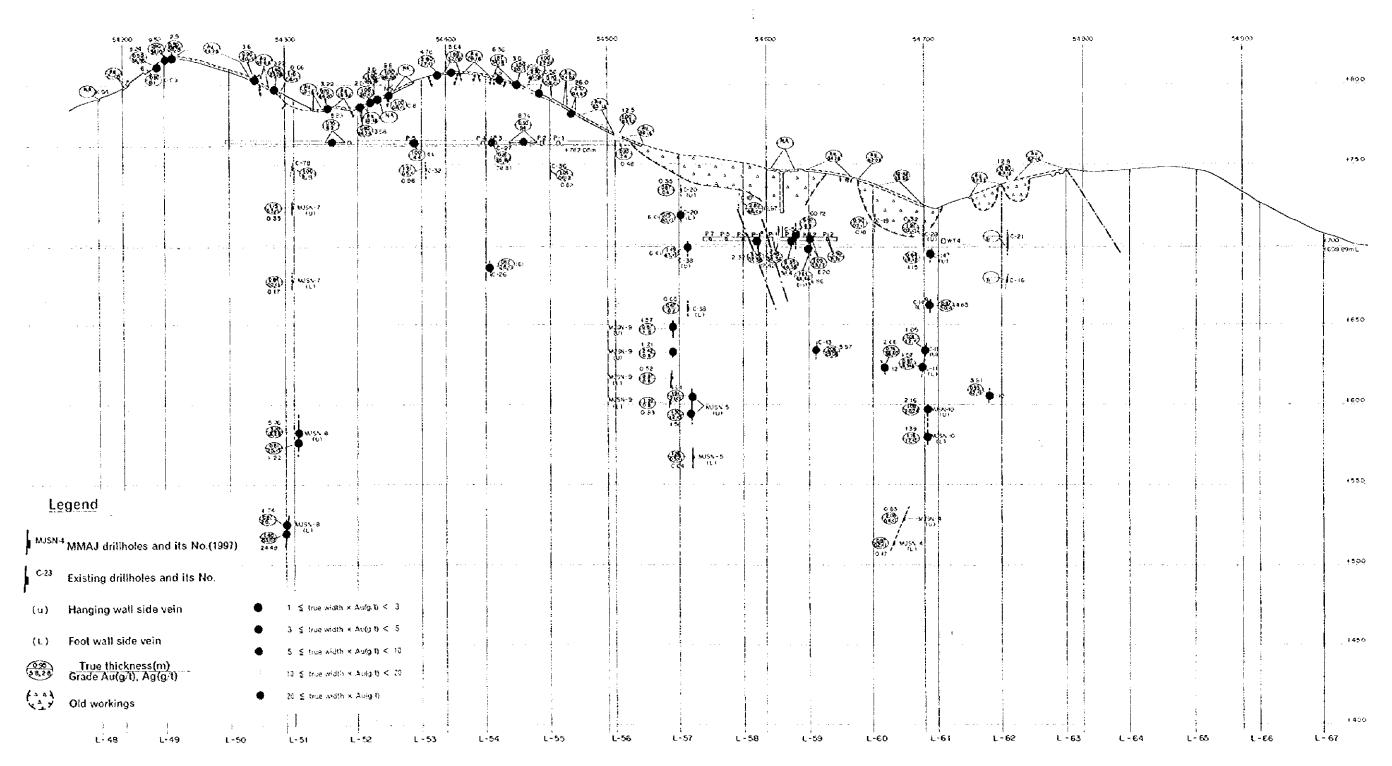


Fig. II-3-2-8 Perspective Section for Altynsai No.2 Vein

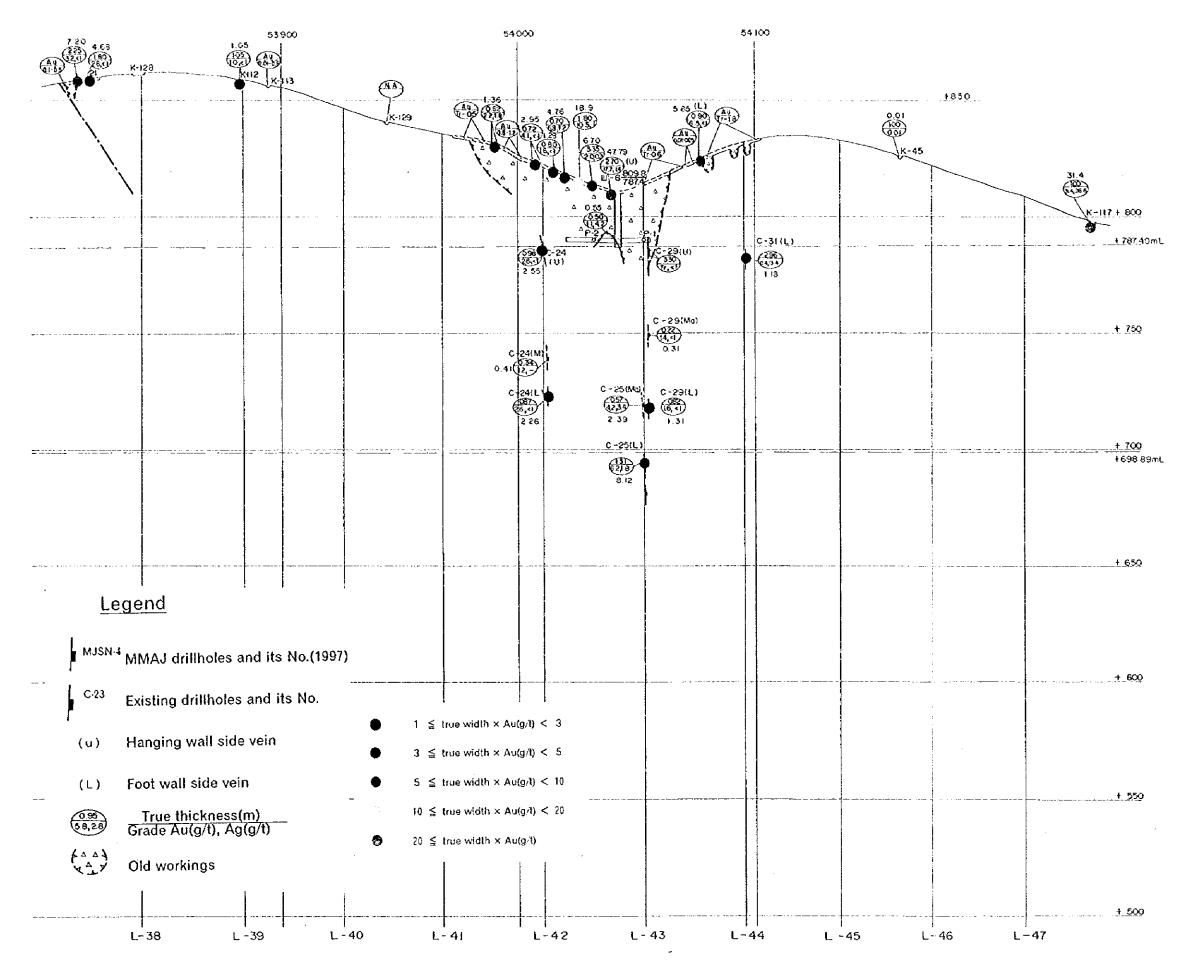


Fig. II -3-2-9 Perspective Section for Altynsai No.8 Vein

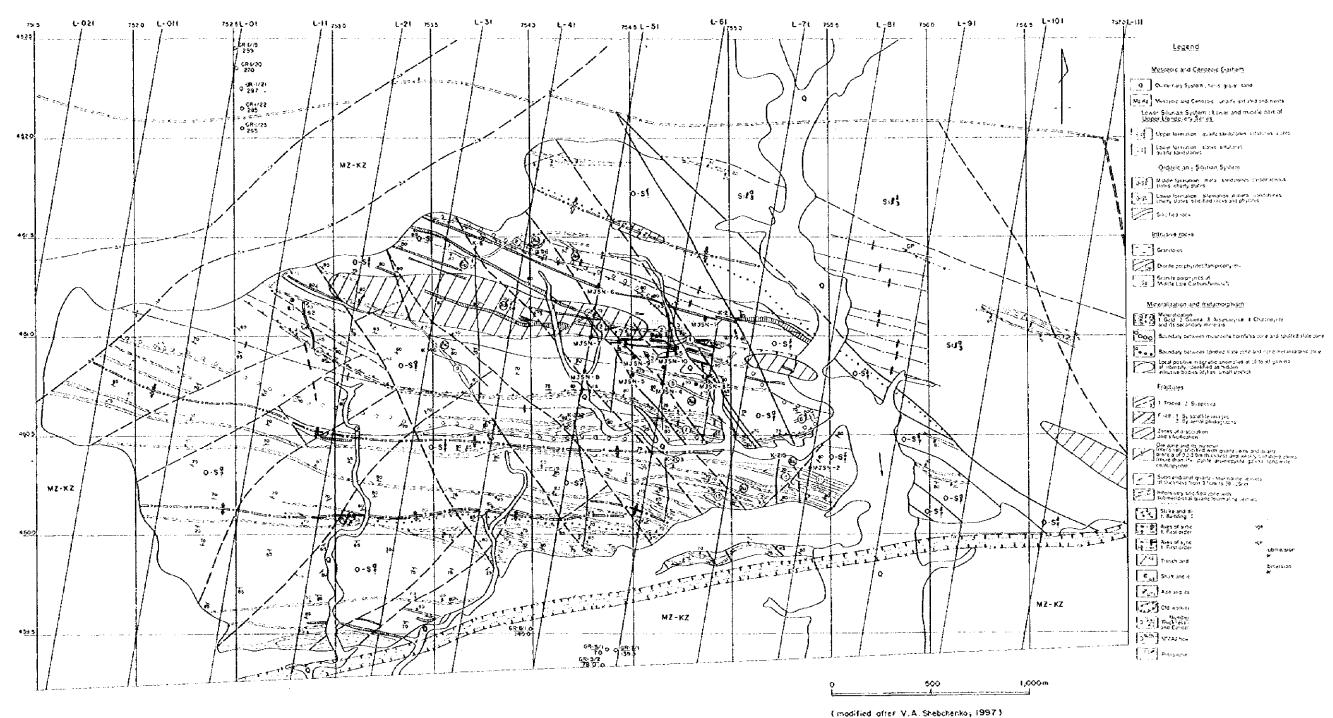


Fig. II-3-3-1 Integrated interpretation Map of Altynsai Deposit

- F

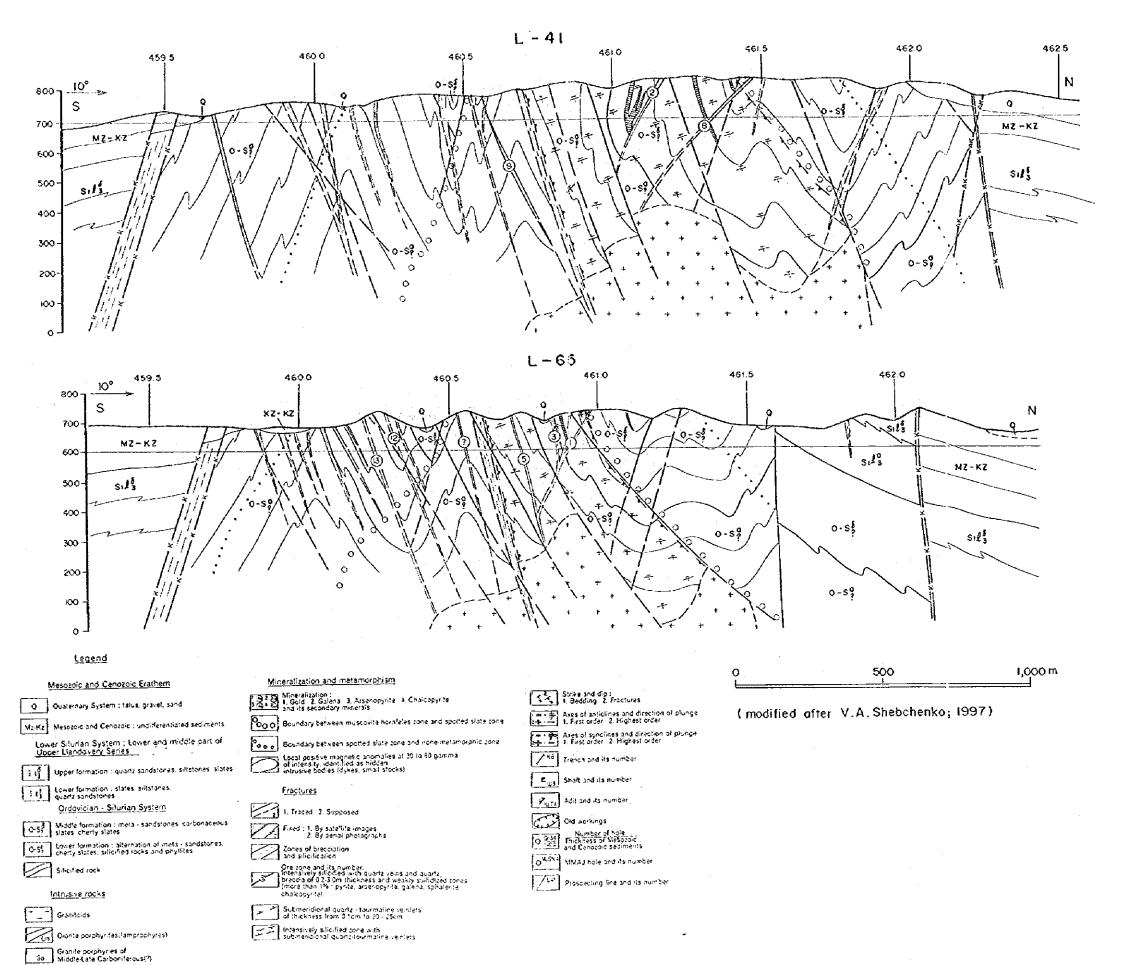
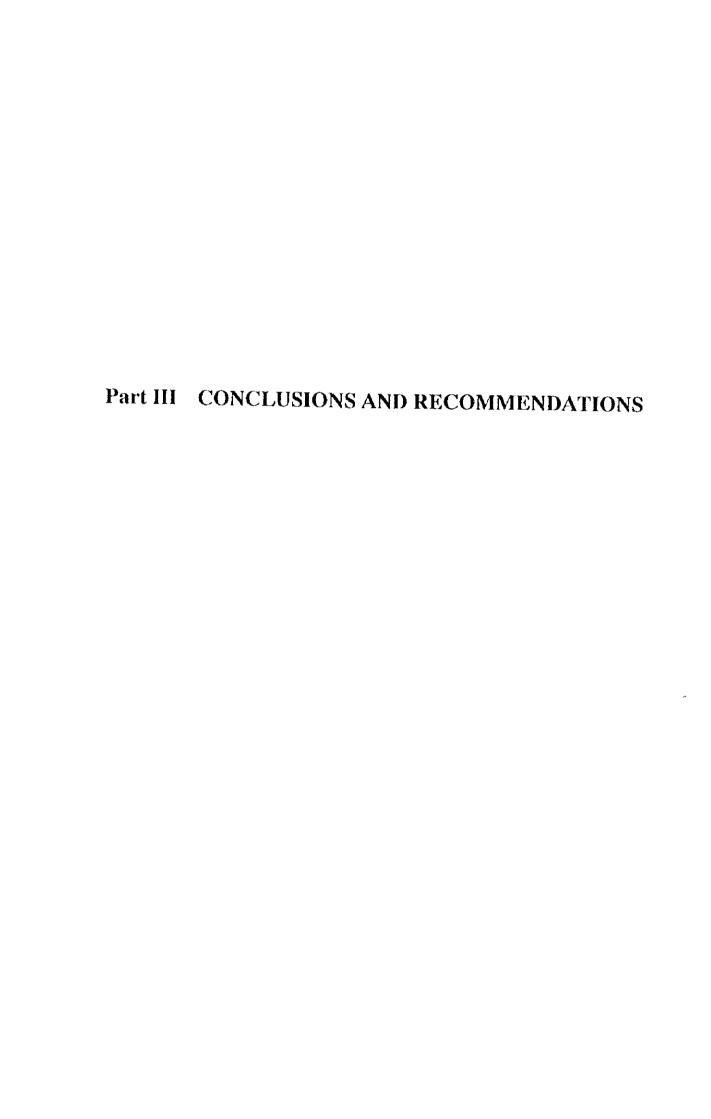


Fig. II-3-3-2 Integrated interpretation Cross Sections of Altynsai Deposit





Chapter 1 Conclusions

1-1 The Entire Area of the Southern Nuratau

- (1) The survey area is situated in the Zarafshan-Turkestan Tectonic Zone of the Southern Tien-Shan Zone, underlain by Lower Cambrian to Lower Silurian terrigenous sediments in the central to southern part, while in the northern part, mainly by Upper Silurian to Middle Carboniferous limestones. The rocks are intruded by Silurian to Triassic dikes and Carboniferous to Permian granites. The strata are folded around a folding axis in the WNW-ESE direction and cut by fractures in similar directions, forming a narrow tectonic zone stretching in the WNW-ESE direction. Traversing the direction, fractures develop also in the NE-SW and E-W direction.
- (2) The satellite image produced on a basis of the LANDSAT TM data clearly reflects the geological units and tectonic structure, proving to be effective for the geologic interpretation in the survey area. It was learned that the clear lineament in the NW-SE direction traversing the center of the survey area represents a fault with fracture zones, about 100 m wide. In the zone extracted as an iron oxide zone by the ratioing processing of TM data, iron oxide zones were really verified in some parts while the rest represented a shaded slope. The zones extracted as argillized, carbonatized alteration zones were not those accompanied by mineralization; however, occurrence of weathered granites including kaolinite, sericite and calcite was verified.
- (3) Ore deposits and manifestations mainly of gold in the survey area occur along fracture zones in the WNW-ESE direction, forming the Karatau ore zone (70 km east to west and 2 km to 4 km from north to south) along the northern side of the Karatau granite bodies and the Aktau ore zone (70 km east to west and 2 km to 5 km north to south) along the southern side of the Aktau granite bodies.
- (4) In the Karatau ore zone, there occur gold-silver bearing quartz vein-type deposits and manifestations such as the Karamechet-Kurai manifestations and the Altynsai deposit in the detailed survey area. The Aktau ore zone embraces gold-silver bearing quartz vein-type manifestations such as Bitab, Bashtut, Maulyan and Taulyan. Besides, there are the iron-manganese manifestation at Akmulla, the niobium-tantalum manifestation at Sartakchi and the skarn-type tungsten-molybdenum deposit at Lyangar.
- (5) Component minerals of the gold bearing quartz veins are mainly quartz, pyrite, goethite and lepidochrocite, accompanied, in minor quantities, by marcasite, arsenopyrite, chalcopyrite, sphalerite, galena, pyrrhotite, scheelite and electrum.

- (6) At the Maulyan manifestation, independent gold grains, 2 mm in diameter, were observed in quartz, which was determined to be primary gold. Electrum confirmed by observation of polished section from the Bitab manifestation is associated with pyrite and manganese oxide in cracks of quartz, which has possibly be generated by the secondary enrichment.
- (7) Homogenization temperature of fuild inclusions of quartz ranges between 140°C and 340°C, which is divided into a relatively low temperature group (140°C to 170°C) and a high temperature group (270°C to 340°C). In view of the mode of occurrence, the low temperature group is inferred to indicate that of secondary fluid inclusions originated in hydrothermal solution of a later stage which was trapped in the cracks of quartz. Quartz of Kurai, Sebistan and Sartakchi fall within the low temperature group whilst the high temperature group includes Karamechet, Maulyan, Taulyan and Lyangar.
- (8) In the Maulyan manifestation, gold mineralization accompanies quartz veins and silicified veins along about 10 of fracture or silicified zones in the WNW-ESE direction. Three ore bodies, 1 m to 4 m wide and 150 m, 200 m and 800 m long, have been ascertained up to now. Their gold grade varies from 1 g/t to 18 g/t. Homogenization temperature of fluid inclusions of quartz, as measured of a sample, showed 328°C, which is rather high for a gold vein. Native gold, 2 mm in diameter, is included in fresh quartz accompanied by tourmaline, which was determined to be primary gold. The manifestation has relatively good continuity of mineralization zones and high gold grade. The east and west extensions and the lower portion of the ore bodies are worthy of exploration; the Maulyan manifestation is considered to be most promising of all in the general survey area.

1-2 Altynsai District

- (1) The area is underlain by the Ordovician-Silurian slate, siltstone, sandstone and phyllite, as well as lower Silurian slate, siltstone and sandstone, intruded by lamprophyre dikes during late Permian to early Triassic times in the vicinity of the No.10 vein ("Berkut Vein") in the west. Ore deposits in the District are either gold-bearing quartz veins controlled by fracture zones with the WNW-ESE and NW-SE trends, or vein-type deposits composed of tourmaline-quartz veins which accompanies joints with the N-S trend. More than 20 ore zones have been ascertained, which include the veins Nos. 1, 2, 5, 8 ("Northwest Vein"), 9 ("Kazanbulak Vein") and 10 ("Berkut Vein").
- (2) In an area, 2.5 km long and 500 m to 800 m wide, that embraces the veins Nos. 1, 2, 5, 8 and 10, inumerable joints with the N-S trend develop, forming tourmaline-quartz veinlet

zones. In view of the fact that the veinlet zones almost conincide with the areas of occurrence of biotite-muscovite hornfels as the host rocks and of the Uzbek airborne magnetic survey findings, it is inferred that granite stocks extist aligned in the WNW-ESE direction beneath the veinlet zones.

- (3) Component minerals of the quartz veins that occur in fractures zones with the WNW-ESE and NW-SE trends are mainly quartz, pyrite, marcasite, arsenopyrite, chalcopyrite, sphalerite, goethite and lepidochrocite, accompanied by galena, native bismuth, aikinite, wittichenite, scheelite, rutile and electrum. Electrum, 5-10 µm in grain size, observed in polished sections in the subject survey occurs in quartz, associated with chalcopyrite, native bismuth and wittichenite in a vein-like alignment but exists independently, which was determined to be primary electrum.
- (4) The tourmaline-quartz veins with the N-S trend are composed mainly of quartz, tourmaline, pyrite, arsenopyrite. The Uzbek study indicates inclusion of wolframite, cassiterite, topaz, beryl and native gold. The veins are considered to be tourmaline greisen-type.
- (5) Homogenization temperature of fluid inclusions of quartz is generally 250°C to 340°C, while some of the veins in the WNW-ESE and NW-SE direction showed the low teperature from 110°C to 200°C. The low temperature group is inferred to indicate that of secondary fluid inclusions, as well as in the general survey area. Homogenization temperature of tourmaline-quartz veins with the N-S trend being 250°C to 340°C, which makes no significant difference from that of the veins with WNW-ESE and NW-SE directions.
- (6) The Phase I drilling survey discovered relatively rich mineralization (true width 0.2 m to 1 m; Au 2 g/t to 20 g/t) on the hanging side of No.1 vein and in No.5 vein, while dominant mineralization (true width 1.6 m; Au 15.3 g/t) was confirmed by the drilling MJSN-8 in the lower portion of No.2 vein. The MJSN-4, -5, 9 and -10, aimed at portions beneath the bonanzas confirmed by the drift at No. 1 vein (extension 135 m; average width 2.29 m; Au 15.7 g/t) and the drift at No. 2 vein (extension 55 m, average width 4.28 m; Au 4.5 g/t), however, only encountered low-grade mineralization (Au 4 g/t or less). This is due presumably to the ore bodies being small in size and ununiform in grade distribution. The MJSN-8 captured good mineralization 250 m under the surface, which confirmed that the mineralization of No.2 vein continuous fairly into the deep.

Chapter 2 Recommendations for the Phase II Survey

1) Maulyan District

The analysis of existing data and geological surveys conducted during Phase I indicated that the Maulyan manifestation has relatively good continuity of mineralization zones and high gold grade. It is advisable to execute drilling survey, in order to clarify mineralization in the deep portions of the ore bodies confirmed by the Uzbek trenching survey. It is also advisable to execute detailed geological survey in the Maulyan district, including adjacent ore manifestations such as Taulyan and Beshbulak.

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2) Altynsai District

- (1) The drilling survey during the subject year revealed good mineralization 250 m under the surface, which indicates continuation of the mineralization into the deep; it is advisable to continue the drilling survey to verify mineralization in the western extension and deeper portion of the No. 2 vein.
- (2) As the downward extension of the bonanza of the No. 1 vein (extension 135 m; average width 2.29 m; Au 15.7 g/t), which was discovered at the drift, remains to be investigated; it is advisable to explore the portion by drilling survey.
- (3) The lower portions of the veins Nos. 5, 6, 7, 11, 12, etc. in the southern ore zone remain almost unexplored, except the portions surveyed by drilling in Phase I. It is likely that the fractures dipping north continue to the deep as far as granite body, bearing major ore bodies and that the No.1 and No. 2 veins are its branch veins. In order to verify mineralization in the deep, it is advisable to carry out drilling survey.
- (4) As the result of the Phase I drilling, gold grades in the tourmaline-quartz veinlet zones with the N-S trend were 0.3 g/t to 1 g/t, partially 2 g/t to 5 g/t. Zones where veinlets concentrate in stockworks and gold grades 1 1.5 g/t or higher can posssibly be open-pitted. It is advisable to explore the lower portions of the veinlet concentration zones by drilling survey.

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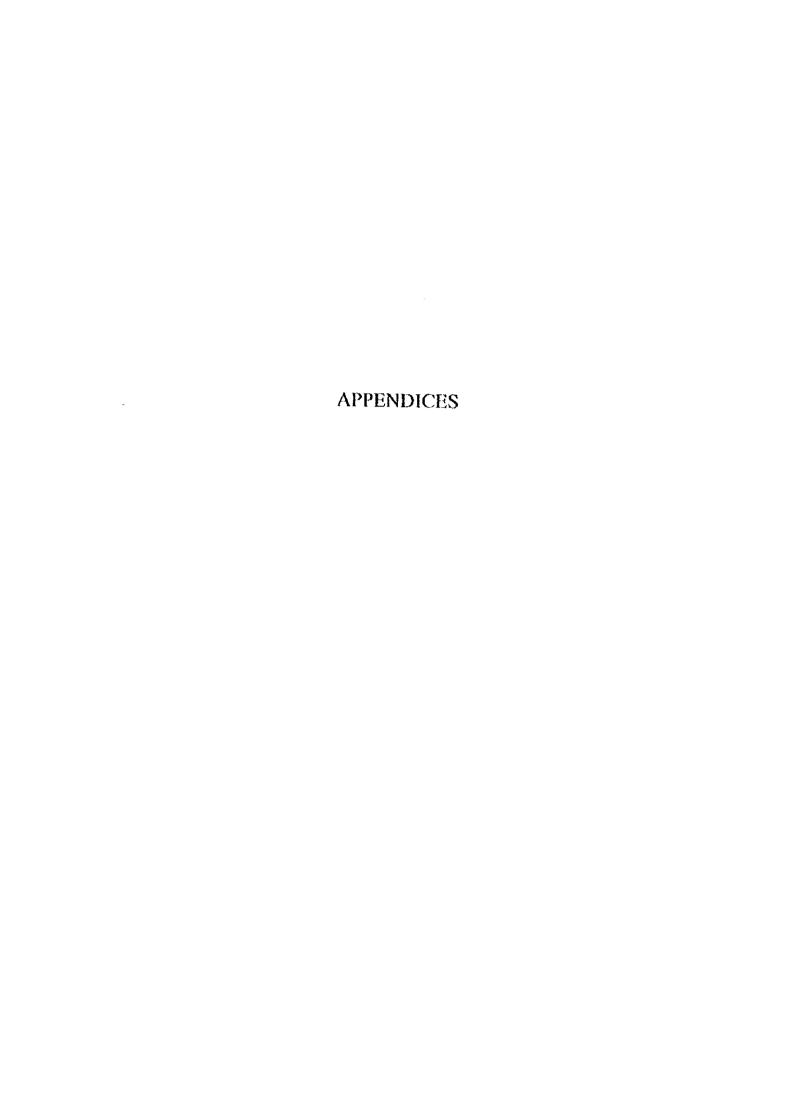
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Appendix 1

Geologic Core Logs of the Drillings

Legend

Soil

Dip (bedding plane)

Slate

Dip (joint plane, fault plane, contact plane of silicified rock)

Sandstone

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Phyllite

Quartz vein

IYKH

Quartz veinlets

44- 44-44-

Silicification

Fracture zone

| Au  | Ag  | As   | W     |
|-----|-----|------|-------|
| 2.0 | 7.8 | 0.38 | 0.005 |

Assay Result
Au(g/t), Ag(g/t), As(%) (W%)

LAB TEST  $\frac{B1-5}{F \cdot I \cdot P \cdot X}$ 

----- Laboratory Test -

Sample No. Samples

F.----Fluid inclusion test sample,

T ----Thin section sample

P-----Polished section sample,

X-----X-Ray diffraction analysis sample

### **Abbreviation**

| qz, v quartz vein     |
|-----------------------|
| qz vlsquartz veinlets |
| seslate               |
| sssandstone           |
| blk black             |
| dkdark                |
| diss disseminate      |
| frac fracture         |
| silicsilicified       |
|                       |

asp .....arsenopyrite cht .....chlorite

cp ------chalcopyrite limo ----- limonite tor -----tourmaline

py -----pyrite

int -----interval w ----- width

| MJSN-           | -1 (1/4) om ~ 50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ί<br>(<br>' : | evel 74<br>61.0<br>54.7 | 87.45         | M           | Direct<br>Inclir<br>Length | ation      | <i>N10°F</i><br>  ~25°<br>90,0 M        |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------|---------------|-------------|----------------------------|------------|-----------------------------------------|
| LITHO-DEPTH     | DESCRIPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0EPTH         | SAMPLE                  |               | SAY         | RE                         | SULÍ       | LAB.                                    |
| 0 10GY (m)      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (m)           | No.                     | Au            | Ag          | As                         | W          | 1881                                    |
|                 | Sand with pebbles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                         |               |             |                            |            |                                         |
| 2 1111 2.00     | 2.00~16.60 re<br>blk sluthpy, limo Casing 23.0m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                         |               |             |                            |            |                                         |
|                 | blk sluthpy, line Casing 23.0m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                         |               |             |                            | <i>:</i> . | :                                       |
| 4               | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                         |               |             |                            | ÷::::.     |                                         |
|                 | 18 76mm; on 7.0m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                         |               |             |                            |            | 7 % : : : : : : : : : : : : : : : : : : |
|                 | 59mm; 7.0m~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                         |               |             |                            |            |                                         |
| 8 8.50          | 2 5 1/4 10 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                         |               |             |                            |            | · · · · · -                             |
|                 | 8.5~16.60 m<br>30 frac. sl with py, limo<br>9.0 m frint, 30°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                         |               |             |                            | 1          | [                                       |
| 10 💢            | 9.0 n joint, 30°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                         |               |             |                            |            |                                         |
|                 | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                         |               |             |                            |            |                                         |
| <sup>2</sup> XX | o court with dian on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                         |               |             |                            | 142.70     |                                         |
|                 | 13.8m joint with lino., 28°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               | 2.2.77.55               |               |             |                            |            |                                         |
| ` <b>X</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                         |               |             |                            |            |                                         |
| 6 22 74 7       | 16.30 joint with Limo, 30%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                         |               |             |                            |            |                                         |
| <b></b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16.60         | 8-101                   | 761           | 21          | 100                        | 120001     |                                         |
| 8-2-            | grey sixic. So with tea 12, Line vis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18.00         | 102:                    |               | _           |                            | * ******   |                                         |
| 14 204 1 1      | 18.2m, ge limo V. w=0.3cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19.00         | - 203                   |               |             | 0.02                       |            |                                         |
| 20              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20.00         |                         |               |             |                            |            | T                                       |
| 2 2 20          | 21.70-25.35m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 21.70         | 704                     |               |             | · · · · · · ·              |            | 4.000                                   |
|                 | fac. silic 55 with few go, limo vls (w=1~3cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 23.00         | 105                     | 0.5           | < 1         | 0.08                       | 000        | ]                                       |
| 4               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | 106                     | K0.1          | <           | 1002                       | 000        |                                         |
| XX 25.35        | 25.35-30.25 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25:3\$        |                         |               |             |                            |            |                                         |
| 6               | LOY SY WITH APP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                         |               |             |                            |            |                                         |
| 26.75           | 26.75-29.60 m frac.sl with limo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | -701-22-2               |               |             |                            | 12.22      |                                         |
| * ****          | 14.15- 21.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                         |               |             |                            |            |                                         |
| 30              | an to be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | İ             |                         |               |             |                            |            |                                         |
| 30.70           | 30.70~34.50 w<br>dk grey sixic sl with metwork 32 v/s<br>(w=1,2mm, int=2cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30.70         |                         |               |             |                            |            |                                         |
| 2 7/3           | (w= fright, fat = 200)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 32.00         | -107                    |               | <del></del> | 1 <00                      |            |                                         |
| 7/12            | 38 33.0m joint with gs (w=2mm, 38°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 33.00         | /08                     |               |             | 1 600                      | 1          | -1 1                                    |
| 4-117 34.50     | 16 30 50m gz V (w=5mm, 18°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 34.50         | 109                     | 0,2           | - <         | 1 KO,O.                    | 1 koco     | 1                                       |
| 7.7             | sk50~36.40 m blk sl with fav gs vks d lino                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 35.00         | 149                     | ζ0            | 1 2         | 1 600                      | 1 000      |                                         |
| 6-236.4         | the state of the s | 364           |                         | -             | -           | - 22                       |            | <u> </u>                                |
| 17              | blk silic. sl with go vls blimo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 38.00         | , - 110                 | <b>∠</b> ⊘.   | 1 <         | 1- 200                     | 1 1000     | 1                                       |
| 8-#777          | 39.70~40.00m frac. Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30.0          | 111                     | (0            | 1 <         | 1 600                      | 1 <000     | 1                                       |
| 40 200 10.00    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 39.5          | 0                       |               |             | 1 (00                      |            | 4                                       |
| J/1/ 40.80      | 40.00-47.60 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4080          | , 1/2                   | K0.1          | +           | ( KO,U                     | Kon        | 4                                       |
| 2-              | grey very fine 55 at 42.50m joint with line, 44°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                         | -             | - }         |                            | _          |                                         |
|                 | \$ 42.50 John 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               | 1                       |               |             |                            |            |                                         |
| 4-              | 45.80n joint with lino, 12°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                         | -             |             |                            | -          |                                         |
|                 | 45.80 M JOHN WILL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               | 1. 1. 1. 1.             |               |             |                            |            |                                         |
| 6 (1)           | A 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                         |               |             |                            | -          |                                         |
| 17.10           | dk grey silic sl with network gr (w=1~2mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 47.60         |                         | 1             |             | -                          |            |                                         |
| 27/1 47.80      | 119110~ t= 110th                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               | 11.3                    | <b>&lt;</b> 0 | 1 <         | 1 (00                      | 1 0,00     | 1                                       |
| 50 7/1/         | blk sl with go vs notwork vls (w=0.1~5cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 49.4          | 114                     | \¿₫,          | 1 <         | 1 K00                      | 1 4000     | 7                                       |

| $MJSN - 1(2/4) 30 m \sim 100 m$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | level         | •          | m :          | Direct<br>Inclin<br>Length | nation      | ) °          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|------------|--------------|----------------------------|-------------|--------------|
| LITHO-DEPTH DESCRIPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DEPTH<br>(m)   | SAMPLE<br>No. | Au         | SAY<br>Ag    | RE<br>As                   | ŞULT<br>W   | LAB.<br>TEST |
| 51.00 m 32, Py V (N=5cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 54.00          | B-114<br>115  |            |              | <001<br><001               |             |              |
| 57.45 53.4~ 58.30 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 52,00<br>53,40 | 116           |            |              | 1                          |             | . <u> </u>   |
| 4 blk sl with gz vls (w=1~3 mm, int=4cm) 54.60m gz v(w=6mm, 350)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | \$5.00         | -///          |            |              |                            | 1 2 2 2 2 2 |              |
| 6-777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3600<br>57.00  | 118           |            |              |                            |             |              |
| 8-7 1830 58.30-63.1 m  blk sl with few ge vls (w=1~3mm, int = 20 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 58.30          | 120           | <0,1       | <1:          | 0.01                       | (0,001      |              |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60.20          | 121           | 0,4        | 17.8         | (0,01                      | (0,001      |              |
| 2 / 2 62.00 W 62.1 m & 2, asp, py V. ( w= 6 mm, + 2°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 62.40          | 1/22          |            |              | ·                          |             |              |
| 62.4-63.1m<br>abu 92,99,059 V2 vls<br>63.1~64.0 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6310           | 123           | <0,1       | <1           | 0,62                       | (q001       |              |
| blr sl with few ss bands 64.00~104.10m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |               |            |              |                            |             |              |
| blk sl with py (bedding plane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |               |            |              |                            |             |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |               |            |              | 7.7.2                      |             |              |
| 20 The second se |                |               |            |              |                            |             |              |
| 2 72.12 12, P) asp V (w= 200, 350)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |               |            |              |                            |             |              |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |               |            |              |                            |             |              |
| 6- 77.2-77.8m fo, py, asp VLs 77.3m g2, py V (w = 3mm, 18°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |               |            |              |                            |             |              |
| 8 1 18 18 18 18 18 19 18 18 18 W W 11.5 CM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 77.20          | -150          | <u>(01</u> | <u>&lt;1</u> | K0,61                      | (0,00]      |              |
| 80- 18.5-79.5 83, pg, asp V. l vls<br>80-4m 82, pg V(w=3mm, 40°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1850<br>1950   | 151           | <0.1       | <1           | 0.28                       | १०,८०       |              |
| 2 81.3m gr, py V(w-1cm, 40°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |               |            |              |                            |             |              |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |               |            |              |                            |             |              |
| 6 8 5m 92, py V. (w=5mm, 45°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |               |            |              |                            |             |              |
| 6 86.5m gz, py v. (w=5nm, 450)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |               |            |              |                            |             |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |               |            |              |                            |             |              |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |               |            |              |                            |             |              |
| 2 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |               |            |              |                            |             |              |
| 4 73.2" 73, Py V (W=3°", 25°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |               |            |              |                            |             |              |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |               |            |              |                            |             |              |
| American Section 1997 and 1997 | 1              |               |            |              |                            |             |              |
| 8 1850 99.30 m 62, PB, asp Vls  8 1850 96.30 m 62, PB, asp Vls  98.30 ge, py, asp V (wobum, 40°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 98.50          |               |            | Ē            | 111111                     |             |              |

| MJSN-1 (3/4) 700 m ~ 150 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | l<br>X<br>Y      | evol                     | . m    | Di<br>li<br>la Lo    | irecti<br>nclina<br>ength | on<br>tion        | e<br>Ma      |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------|--------|----------------------|---------------------------|-------------------|--------------|----|
| LITHO-DEPTH DESCRIPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DEPTH<br>(m)     | SAMPLE<br>No.            | A \$ S | A9                   | RESI                      | ) <u>l 1</u><br>W | LAB.<br>TEST |    |
| 2 102.50m gz, py, asp V(wozen, 350)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                          |        |                      |                           |                   |              |    |
| 103, 40m 32, PyV (W=2Mm, 30°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                          |        |                      |                           |                   |              |    |
| The state of the s | 105.40           | B-124                    | ₹0.1   | < 1                  | 004                       | 0001              |              |    |
| 8 4610 100 100 10m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 108.80           |                          |        | 14 1<br>- 1<br>- 1 1 |                           |                   |              |    |
| 110-11-11019 110-119 90m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 109.7            | 153                      | <0.1   | ₹ <i>1</i>           | (001 K                    | 4201              |              |    |
| blk sl with ss bands 2-1177111200 109.70~112.00 m 3e, py, asp vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 112.00           | 1-730-                   | <0,1   | <1                   | 002                       | 0001              |              |    |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                          |        |                      |                           |                   |              |    |
| 6 116.50 m 38, py, asp V(w=2 mm, 20°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 116.2            | 1 754                    | <0.1   | <1                   | 0,02                      | (0001             |              |    |
| 1/9.80-121.10 m gz, pg, Vls 1/9.90 1/9.90 gz, pg V (we3mm, 18°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                          |        |                      |                           |                   |              |    |
| 120 77 1832 119.93 ~ 125.30 w                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | /19.8<br>/2/.    | 1=155=                   | ka i   | <1                   | 0.04.                     | 0001              |              |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                          |        |                      |                           |                   |              |    |
| 125.20 125.30 - 131.80 m<br>blk sl with ss bands                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |                          |        |                      |                           |                   |              |    |
| 8 128.10 gz, py, asp V(w=2~, 25°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                          |        |                      |                           |                   |              |    |
| 130.80m joint with py, 35° 131.10~131.80m g2,py, asp v9s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 131-             |                          |        |                      |                           |                   |              |    |
| 2 131.40 m gz, py, asp V(w=1.500, 22°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                          | <0.1   | < 1                  | 004                       | (000)             |              |    |
| blk sh with few go, pg, asp Vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                          |        |                      |                           |                   |              |    |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                          |        |                      |                           |                   |              | -  |
| 8 (19.30 % 62, Py V (w=1mm, 30°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |                          |        |                      |                           |                   |              |    |
| 141.50 3 141.5m ge, pg, asp V (w=3.5cm, 250)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 141.             |                          | 27.    | , ,                  | (7.2)                     |                   |              | _  |
| 143.8m 83, 12, 100 (m=4mm, 20°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 142.             | 8 - 157                  | <0 1   |                      | 0,03                      | (000)             |              | -  |
| 6 187.49 \$ 147.4-147.75m 83, P8, CP V. (15°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                          | -      |                      |                           |                   |              | _  |
| 8 147.75-155.2m blk slath few go vls (w=1-3mm, int=25-30cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ) 147.4<br>147.4 | 60 - 7 - 7<br>75 - 7 - 7 | 3 ≪0.1 | ₹1                   | K0,01                     | 10,001            | <b>}</b>     | -  |
| 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                          |        |                      |                           |                   |              | Ĺ. |

| MJSN=1 (4/4) 150 m ~ 190 m                                                            | Le<br>X        | evel                   |              | n I        | irect<br>nolin                   | ation        |             |
|---------------------------------------------------------------------------------------|----------------|------------------------|--------------|------------|----------------------------------|--------------|-------------|
| D. Talia Arata                                                                        | DEPTH          | SAMPLE                 |              | n L<br>SAY | ength<br>RES                     | SULT         | LAB.        |
| 150 LOGY (m) DESCRIPTIONS                                                             | (m)            | No.                    | Au           | Ag         | As                               | W            | TEST        |
| (v 151,24 )=, Py V (W=244, 52°)                                                       |                |                        |              |            | 1.5                              |              |             |
| 2 10250 152.3-152.8m frac. 30he with 82 Vls                                           |                |                        |              |            | + <del>1</del> . <sub>1.</sub> . |              | -           |
| 153.90 27 153.6 80, P8 V (w=2mm, 27°)  153.90 153.9-157.7m fract zone                 |                |                        |              |            |                                  |              |             |
| 1X X 73/33491 :                                                                       | 155.20         |                        |              |            | 1. 11.1                          | 12.          |             |
| 6- 155.20-157.10 m g2 V& vls (0=0.2-50) int=10-15")                                   | 15620          | B-127                  |              |            |                                  |              |             |
| 8 157.7 - 161.8 11                                                                    | 157.70         |                        | <0.1         |            |                                  |              | 1127        |
| 222 with the gray some                                                                | 15900          | 129                    |              |            |                                  |              |             |
| 160 127                                                                               | 160.0          | 130.                   |              | ¥          | 14                               |              |             |
| 2 161.80 161.8-164.2 m th few network ga                                              | 11100          | 131                    | <0.1         | < 1        | (0,01                            | ω001         |             |
| 16.50 -16+.70 m frac. 20ne with faw gards                                             | 161.80         | 1/32                   | <0.1         | <1         | (0,01                            | Koro1        |             |
| <del> </del>                                                                          | 1629           | - <i>133</i>           | <0.1         | < 1        | (0.01                            | 0001         | 54          |
| 164.70-165.40                                                                         | 164.7<br>165.4 | 134                    | Ca.i         | 77         | 6001                             | K0201        |             |
| A 11 96 10 11 11 11 11 11 11 11 11 11 11 11 11                                        | 166.2          | -135 <u>-</u><br>-136- | <01.<br>02   | <1<br><1   | 601                              | 0001         | 7           |
| 8 7 1/2 10 Xs 82, PP, asp V & network VIS                                             | 166.9          |                        | ₹0 <u>.1</u> | ₹1         | (001                             | <u>(0601</u> |             |
| 168.0 168.2-1703 m                                                                    | . 100,20       | 5 T. 1 T. 207.         | <0,1         | 2          | 17:00                            |              |             |
| 170 200 109.0 93, pg, psp network vls                                                 | 170.3          |                        | <u> </u>     |            |                                  | 2.00         |             |
| 1/100 169.0-170.3 m frac zone with 72 V& VRs                                          | 172.0          | 137                    | <0.1         | < T        | 001                              | (co1         |             |
| (w=0.1~3cm)                                                                           | 1              | 140                    | <0.1         | <1         | (001                             | K0001        | *           |
| 4- <b>200</b>                                                                         | 1924           | 1.1 2 2 1              | <0.1         | 1          |                                  | ₹ 7 7 °C     |             |
| 1955                                                                                  | 1248           | 142                    |              |            |                                  |              |             |
| 6 17.17.2 176.2-177.3 m frac zone with few gz Vls                                     | 176,2          | 77.77.77               | 27.          |            |                                  |              |             |
| 8 172.5-178.3 m frac zone with few gr vls                                             | 178.3          | -143                   | <01          | < 1        | (001                             | 20007        |             |
| 190 777 19.8-181.50m blk sl with ss bands & gz, pg, asp V& vls (w= 0.1~50m, int=150m) | i '            | 144                    | 0,2          | < 1        | 0.10                             | (0007        |             |
| 180 1815 ( 181.1 m gz V ( w=3 cm) with py & asp                                       | ł              | 145                    | <0,1         | < 1        | (001                             | 0001         | B1-4<br>X,F |
| 2 0181.5-190.0 m blksl with few gr vls(w=0.1-0.3cm)                                   | 181.5          |                        |              |            |                                  |              |             |
| bit sk win few go visco of                                                            | ·              |                        |              |            |                                  |              |             |
| 185.0 - 186.0 m ge vls with py                                                        | 185.0          | . 1 1.1.1.1            | 1.4.         |            |                                  | 12.2         |             |
| V. Z. Zioka i                                                                         | 186.0          | : j46                  | <01          | <1         | 0.01                             | Kcoc1        |             |
| 186.8 - 187.6 m 98 vls with py                                                        | 186.8          | 147                    | <01          | < 1        | 0.01                             | K0001        |             |
| 8 188.0 - 190.0 m frac zone with few ge V                                             | 187.6          |                        |              | 1 1 1 1    |                                  |              | 7 - 10 Tun  |
| 190 189.9m gz v with py (w=3cm)                                                       | 189.0          | 148                    | <0.1         | < 1        | 001                              | K0001        |             |
| 190.00 m<br>Bottom of the hole                                                        | 170,0          |                        |              | 7.         |                                  |              |             |
| 2                                                                                     |                |                        |              |            |                                  | 1 1 1 1 1    |             |
|                                                                                       |                |                        |              |            |                                  |              |             |
|                                                                                       |                |                        |              |            |                                  |              |             |
| 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                                                 |                |                        |              |            |                                  |              |             |
|                                                                                       |                |                        |              |            |                                  |              |             |
| 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                               |                |                        |              | 1.5        |                                  |              |             |
|                                                                                       | <u> </u>       |                        |              |            |                                  |              |             |

1

| MJ'SN          | -2(1/4) 0 m ~ 50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | )<br>}         | Level 659,81m<br>X 60,334,96m<br>Y 54,394,61m |             |          | evel 652,81m Directi<br>60,334,96m Inclina<br>54,994,61m Length |              |              | ection \$10°5<br>lination -25°<br>gth 1601 m |  |  |  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------|-------------|----------|-----------------------------------------------------------------|--------------|--------------|----------------------------------------------|--|--|--|
| ETTHO-DEPTH    | N.C.A.A. I. A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DE DE LA       | SAMPLE                                        |             | SAY      |                                                                 | JL T         |              |                                              |  |  |  |
| LOGY (m)       | DESCRIPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OEPTH<br>(m)   | No.                                           | Au          | Ag       | As                                                              | W            | LAB.<br>TEST |                                              |  |  |  |
|                | 0-3.7 m with publics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| 2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | sange en                                      |             |          |                                                                 |              | . <b>.</b>   |                                              |  |  |  |
| 300            | blk sl with ss bands                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| 4              | blk sh with is paner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                               |             |          |                                                                 |              | <b>_</b> _   |                                              |  |  |  |
| 6              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| Y =            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| 8              | 30 g. cm 28 V (w=0.200, 300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
|                | A by the formation of the first |                |                                               |             |          |                                                                 | •            |              |                                              |  |  |  |
| 10             | 4 <sup>15</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| 2              | $\lambda^{\nu}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             | <br>:-   | :                                                               |              |              |                                              |  |  |  |
| 4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| 6              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          | 1,010 (E.)<br>-7 (E.)                                           |              | -            |                                              |  |  |  |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 | 5. N. S.     |              |                                              |  |  |  |
| 8              | as 19.00 joint with lino (45°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| 20 20,40       | 18 20.40-21.00 m frac zone with line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| XXX 21.00      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | 2.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2       |             |          |                                                                 |              |              |                                              |  |  |  |
| 2- 21,90       | 22 80-20 20 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                               |             |          |                                                                 | 10.35        |              |                                              |  |  |  |
| # A 24.00      | Ik step weatly silic so with go VLs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 22,30          | B-201                                         | <0.1        | < 1      | K001                                                            | /n à a 1     |              |                                              |  |  |  |
| 4              | 22.80-24.00m gz, line vls (w=0.1-0.5cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24.00          | <i>D</i> 201                                  | :           | -        | 1007                                                            | K0001        |              |                                              |  |  |  |
| 6-11           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| 12.5           | 15 26.40 m g2, py, limo V (w=1.5 cm, 350)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                                               |             | <u>.</u> |                                                                 |              |              |                                              |  |  |  |
| 8-11:34        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
|                | 30.20-83.20 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | 1000000                                       |             |          |                                                                 |              |              |                                              |  |  |  |
| 30-10-20-20    | greg silic, so with 29, pg. network vls (we od-100)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30.20          | 1202                                          | <0.1        | 21       | د د د                                                           | 1001         |              |                                              |  |  |  |
| 2-11/6-1       | 31.30 n g8, Py V (w=10n, 35°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3(,20          | 203                                           |             | < 1      | 003                                                             |              |              |                                              |  |  |  |
| 177 3320       | 33.20-10.801                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 32.20<br>33.20 | 1504                                          |             | <1       | 0,02                                                            |              |              |                                              |  |  |  |
| 4-             | grey silic.55 with few gz, py vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •              |                                               |             |          |                                                                 | -<br>        |              |                                              |  |  |  |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| 6-71           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| 8 2 7 7 35,00  | 38.00-39.00m frac. 20ne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                                               |             |          | 111                                                             |              |              |                                              |  |  |  |
| XX 77.00       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | 7.7 Y                                         | 2 " "       |          |                                                                 |              |              |                                              |  |  |  |
| 40 # 40.80     | 40.80-45.40 m with , = on 1/85 (a) = 0.1-2 cm,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                               |             |          |                                                                 |              |              |                                              |  |  |  |
| #1/11          | grey silic. 25 with gz, py vls (w= 0.1-2cm, int=5-10cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | K0.80          | つかと                                           | <01         | K 1      | 0.03                                                            | (1001        |              |                                              |  |  |  |
| 2-17-17        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 42.0           | 2.06                                          |             |          | K0,01                                                           | <del> </del> |              |                                              |  |  |  |
| 4 2 2          | 44.60m 72, py, ch V (w=1.50m, 450)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 43.00          | 207                                           | <del></del> |          |                                                                 |              |              |                                              |  |  |  |
| 1 4-1 45.40    | 45.40-4630 m blk sl with so bands & few gr, pg, vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4610           | 208                                           |             |          | K0.01                                                           |              | 1 1          |                                              |  |  |  |
| 6 44.10        | grey silic. ss with 18, by vis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 45.40          |                                               | ļ           | /- ·-;   |                                                                 |              | []           |                                              |  |  |  |
| 1/2 W + 1/4 80 | 48.80-48.70 × 32.84 v/s (w=0.1-100, 1ht=1-50x)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 48.84          | 1 209                                         | <01         | < 1      | (0.01                                                           | OMI          |              |                                              |  |  |  |
| 8 14/1/ 02:10  | , , , , , , , , , , , , , , , , , , ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 47.91          | 210                                           | KO. 1       | L        | 10.01                                                           |              |              |                                              |  |  |  |
| 50 27740 4950  | 1 '                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 48.7<br>49.6   |                                               |             |          | ļ                                                               |              | ]            |                                              |  |  |  |
| v <del>-</del> | (w = 0.1 - 1 cm, int = 5 cm) A-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | B-211                                         |             |          |                                                                 |              |              |                                              |  |  |  |

| MJSN-2(2/4) 50 m ~ 100 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | )<br>}         | evel          |              | វា រំ      | Direct<br>Inclir<br>Length | nation       | ,<br>1 *                                  | ı. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|--------------|------------|----------------------------|--------------|-------------------------------------------|----|
| LITHO-DEPTH DESCRIPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DEPTH<br>(m)   | SAMPLE<br>No. |              | SAY        |                            | SULT         | LAB.<br>TEST                              |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 51.00          | B-211         | <0.1         | <1         | 0.01                       | 0.004        | L 1                                       | -  |
| 4 4 1 53.20 × 32 V (w=0.5 cm, 35°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | \$2.00         |               | <0.1<br><0.1 | ľ          | 1                          | 1.0          |                                           | -  |
| 7/14/ or (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 33.50          |               | 0.5          |            |                            |              | 77.7                                      | -  |
| grey SIXIC. SS OFTH TEV FO VAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 55.60<br>57.00 |               |              |            |                            | <del> </del> |                                           | -  |
| 8 1 57.00 -57.90 str. silic 55 with network be uls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5190           | 2/6           | <01          | <1         | K001                       | <0.01        |                                           | -  |
| 60 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |               |              |            | 1                          | - 1. :       |                                           | L  |
| 2 62.10-63.50m blk sl with few for vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ē              |               |              |            |                            | -            |                                           | L  |
| 4-7/1 6250 13.50-68.80 m dk grey silic. ss with 82 v. 2 v/s (partly xetwork) (w=0.1-1.5 m, int=1-5 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 63.50          | 717           | <0.1         | - 1        | 24374                      |              |                                           | L  |
| 1 1 1 10 (6.30m p. 2 V (w=0.5cm, 30°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 85.50<br>84.50 | 218           | <0.1         | <1         | KG07                       | (0,001       |                                           |    |
| 8 11 68.00 68.00-10.00m petwork 87, Pavls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 66.70          |               | <0,1<br><0,1 |            | _                          |              |                                           |    |
| ## 1000 68.80-69.30 grey silic ss with 80.98 vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 68.00          |               | <0.1         |            |                            |              |                                           | ŀ  |
| 70 to 10.00 - 17.50m grey silic ss with few fz, py vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |               |              |            |                            |              | 2 - 12 - 22<br>2 - 17 - 22<br>3 - 17 - 22 | ŀ  |
| 2 12.00m 83, py V (w=0.7cm, 35°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |               |              |            |                            |              |                                           | -  |
| 14.00-14.90 blk sl with few ge Vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |               |              |            |                            |              | ا<br>د سپید                               | -  |
| 6-11-17.50 12.50-72.80m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |               |              |            |                            |              |                                           | -  |
| 17.50 17.50-77.80m th few fr vls  17.50 17.50-77.80m  18.50 17.80-77.80m  18.50 17.80-77.80m  18.50 17.80-77.80m  18.50 17.80-77.80m  18.50 17.50-77.80m  18.50 17.50 17.50 17.80m  18.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 | 77.80          | 222           | ₹0,1         | <b>K</b> 1 | (001                       | 0021         |                                           | -  |
| 80 #1/2 79.90 19.80 - 81.70 m grey silic ss with fz, py vls (w=0.1-1ca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 29.80          | 223           | <0.1<br><0.1 | < 1        | 0.01                       | 0001         |                                           | -  |
| 2 5 1 3 1 81.70 - 82.90 m (nt = 3-10 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80.80          | 225           | <0,1         | <1         | (001                       | OPPI         |                                           | L  |
| 11.17.8290 82.90-86.40 with few 32 Vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 82.90          | 220           | <0.1         |            | 601                        | Kotol        |                                           |    |
| 6 86.40 93.00 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |               |              |            |                            |              |                                           |    |
| 9789 SIME ST PH VIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |               |              |            |                            |              |                                           |    |
| 767.87.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 89.80<br>89.60 | 227           | <0.1         | < 1        | K0.01                      | (c,ee ]      |                                           | -  |
| 90- 35-91.35 82, P3 VLS 90.35-91.25m 38, P3 VLW=500, 50)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 90.35<br>91.35 | 228           | <0.1         | 1.6        | 0,01                       | 0001         |                                           | -  |
| 2 0/1 // 02 00 00 0/1 // 024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 93.00          |               |              |            |                            |              | ·                                         |    |
| 4-1/1/4 99.40 94.40-94.70m blk sl with few gz vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 90,40          | 229           | -            |            | (0,01                      |              |                                           | -  |
| 6 4.44 95.80 94.90-95.80 m greg str. salk 35 with network gz vls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 73.0           | 230<br>23     | <0.1         |            | (0.01                      |              |                                           | ŀ  |
| 8 12 17 grey silic ss with 82, py vls (w=0.1-10m, int=05-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 98.20          | 232           | Ø,1          | <.1        | (0.01<br>0.02              | 0,001        | 1.5                                       | -  |
| 100 min 97.92 97.72 82 V(w=0.50, 40°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 99.40          | 233           | < <b>₽,1</b> | <7         | <0.01                      | cqea J       |                                           |    |

| MJSN-2(3/4) 100m~ 150 m                                                                                                                                                                                                        | t<br>X<br>Y  | evel          |          | n l                                              | irecti<br>nolina<br>ength |          | · · · · · · · · · · · · · · · · · · · |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|--------------------------------------------------|---------------------------|----------|---------------------------------------|
| LITHO-DEPTH D'ESCRIPTIONS                                                                                                                                                                                                      | OEPTH<br>(m) | SAMPLE<br>No. | AS<br>Au | SAY<br>Ag                                        | RES                       | ÜLT<br>W | LÁB.<br>TEST                          |
| 100 100.20 - 101.10 m blk sl<br>101.10 101.10-105.70m blk sl<br>blk sl with 28 vls (w=0.1-3cm  -4cm)<br>partly network)                                                                                                        | 101.10       | B-234         | <0.1     | 1.6                                              | 0.01                      | 0001     |                                       |
| 1-11-11-105.00 m 98 V (w=3cm, 450)                                                                                                                                                                                             | 10250        | 235           | <0.1     | 1,4                                              | 0.02                      | 0001     |                                       |
| 6 105.70 - 110.00 m                                                                                                                                                                                                            | 105.90       | 236           | <0.1     | 2,8                                              | <001                      | 0001     |                                       |
| 8- 107.70 m 72 V (w = 8.2cm, 42°)                                                                                                                                                                                              |              |               |          |                                                  |                           |          |                                       |
|                                                                                                                                                                                                                                |              |               |          |                                                  |                           |          | 1                                     |
| 110 110.00 - 111.70 m gres ss with few 28 V/s 110.30 m 32 v (w = 0.8 m, 50) 111.70 - 113.10 m dk gres sl                                                                                                                       |              |               |          |                                                  |                           |          |                                       |
| 113.10 113.10 grey silic. 55: with few 32, py v/s                                                                                                                                                                              | _            |               |          |                                                  |                           |          |                                       |
| 114.60-116.10" blksh with few 82, py, chl vls                                                                                                                                                                                  |              |               |          |                                                  |                           |          |                                       |
| 6 116.10-120.10 % grey silve so oith few 22, py vls                                                                                                                                                                            | 115.70       | 257           |          |                                                  |                           |          |                                       |
| 8- 418.60 116.50 m 32. pg, V (w=0.5-2.5cm, 200)                                                                                                                                                                                | 117.60       |               |          |                                                  | KGOT                      |          | B2-5                                  |
| 120 12010 120.1-121.20m 87 pg vls(w=0.1-2.50m)                                                                                                                                                                                 | 120.10       | 240           | <01      | < 1                                              | K0.01                     | (0.007   | 10.6                                  |
| 2 122.00 121.20 - 122.00 m blk sl with faw 82 vls                                                                                                                                                                              | 121.20       |               |          |                                                  |                           |          | 1:1                                   |
| dk grey silic. So with few gr vls                                                                                                                                                                                              |              |               |          | 2 1 . v<br>2 2 . i 2 .<br>2 . i 2 . i 2 .        |                           |          |                                       |
| 6-2-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-                                                                                                                                                                                       |              |               |          | 2.22                                             |                           |          |                                       |
| 8 12850 12850-130.10m frac. Zone with few 22, pg vls                                                                                                                                                                           |              |               |          |                                                  |                           |          |                                       |
| 130 128.85 m 32,13.4 (w=0.5 cm, 25°) 130-138.70 m. dk greg sl with 12, pyuls(w=0.1-2 cm, 164=4-8 cm)                                                                                                                           | 130.10       |               |          |                                                  | 3 :                       |          |                                       |
| 2 131.70 131.70 - 131.20m frac. zone with gr vls                                                                                                                                                                               | 131.70       |               |          |                                                  | K001                      | - 77,772 |                                       |
| 4 XXXXII 134.10-134.80 M frac. some with ga uls                                                                                                                                                                                | /33.51       |               |          | <del> </del>                                     | 0,01                      |          |                                       |
| 6- XXX 135.3-139.5 x frac. 20ne                                                                                                                                                                                                | 135.34       | 244           |          | <del>                                     </del> | (001                      | <u> </u> |                                       |
| 8 4 10 4                                                                                                                                                                                                                       | 136.80       | <b>'</b>      |          | +                                                | 0,01                      |          |                                       |
| 138.70-144.10m<br>140-411 138.70-144.10m<br>140-411 138.70-144.10m<br>140-411 138.70-144.10m<br>140-411 138.70-144.10m<br>140-411 138.70-144.10m<br>140-411 138.70-144.10m<br>140-411 138.70-144.10m<br>140-411 138.70-144.10m | 138.7        |               |          |                                                  | : 3                       |          |                                       |
| 2-1                                                                                                                                                                                                                            |              |               |          |                                                  |                           |          |                                       |
| 4 144.035 144.10-145.30 m                                                                                                                                                                                                      |              |               |          |                                                  |                           |          |                                       |
| blk sl with few 12, py vis                                                                                                                                                                                                     |              |               |          |                                                  |                           |          |                                       |
| 146. Kom 32 V (0=0.5%, 20°)                                                                                                                                                                                                    |              |               |          |                                                  | A::14                     |          |                                       |
| 148.90 148.90 - 150.30 m                                                                                                                                                                                                       |              |               |          |                                                  |                           |          |                                       |
| 150 WASK WITH JEW \$2, 13 VX3                                                                                                                                                                                                  |              | <u> </u>      | ٠        |                                                  | -l                        | .L       | <u></u> —Ц.                           |

|                                                                              | -2 (4/4) 150 m ~ 16 910m                                                               | l<br>X<br>Y      | evel          |                              | m (<br>m !<br>m ! | Direct<br>Inclin | tion<br>nation | 200<br>'<br>' m |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------|---------------|------------------------------|-------------------|------------------|----------------|-----------------|
| 15-0-111HO-0EPTH<br>106Y (m)<br>15-0-1253-1253-1253-1253-1253-1253-1253-1253 | DESCRIPTIONS                                                                           | DEPIH<br>(m)     | SAMPLE<br>No. | AS<br>Au                     | \$AY<br>Ag        | RE<br>As         | SULT<br>W      | LAB.<br>TEST    |
| 2                                                                            | 150.30-153.70 m Arac.sl with few ge, py vls                                            |                  | :             |                              |                   |                  |                |                 |
| 1027                                                                         | l i i i i i i i i i i i i i i i i i i i                                                |                  |               |                              |                   | - 7-1            | 1.             |                 |
| 7 11 15 15 15 15 15 15 15 15 15 15 15 15                                     | 153.70-158.20 with few 82 vls 159.00-155.20 m 88,77 network vls                        | 154.00<br>155.20 | 8-246         | <01                          | <1                | (0,01            | coco 1         | 82-7<br>X       |
| 6 5 50 co                                                                    | IHAA IN IN WAN                                                                         | 156.00           | 247           | <01                          | <1                | pot              | roco i         | -               |
| 8 # 158.00                                                                   | 88, pg vl(w=0.1-0.3 on int=1-3 cm) (Fartly metwork) (\$ 158.20-160.10 m grey silic. ss | 157.00           |               |                              |                   |                  |                |                 |
| 16 0 4 160.10                                                                | 160.10 m bottom of the hole                                                            |                  |               |                              |                   |                  |                |                 |
| 2                                                                            |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 4-2-2-                                                                       |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 6                                                                            |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 8                                                                            |                                                                                        |                  |               |                              |                   |                  |                |                 |
|                                                                              |                                                                                        |                  |               |                              | . <u>v</u>        |                  |                |                 |
| 0-1                                                                          |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 2                                                                            |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 4-1-9450 0000                                                                |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 6 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1                                     |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 8                                                                            |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 0-                                                                           |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 2-                                                                           |                                                                                        |                  |               | · · • -                      | -                 |                  |                |                 |
|                                                                              |                                                                                        |                  |               |                              |                   |                  |                | -               |
| 6                                                                            |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 112 10 2 1 2 2 2 3 1 2 2 3 1 2 3 2 3 2 3 2 3 2                               |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 8-1                                                                          |                                                                                        |                  |               | 1.71.5                       |                   |                  |                |                 |
| 0-                                                                           |                                                                                        |                  |               | . <del></del>                |                   |                  | 1 La<br>112 1  |                 |
| 2-                                                                           |                                                                                        |                  | #             | - :                          |                   |                  | 2.1            |                 |
| 4-                                                                           |                                                                                        |                  |               | 2                            | <u> </u>          |                  |                | <b>-</b>        |
| 6-                                                                           |                                                                                        |                  |               | 2001 (3)<br>12 (2)<br>12 (2) | . i. i<br>        |                  |                |                 |
| 8                                                                            |                                                                                        |                  |               |                              |                   |                  |                |                 |
| 0                                                                            |                                                                                        |                  |               |                              |                   |                  | 1-1            |                 |

| MJSN-3(1/q) o m ~ 30 m                                                        | ا<br>بر<br>بر  | evel 72.<br>60,7<br>54.8 | 5.80<br>58.0<br>26.7 | m (                                     | Direct<br>Inclir<br>Length | ion<br>ation       | √10°E<br>-75°<br>11.4. m    |
|-------------------------------------------------------------------------------|----------------|--------------------------|----------------------|-----------------------------------------|----------------------------|--------------------|-----------------------------|
| LITHO-DEPTH DESCRIPTIONS                                                      | DEPIH<br>(m)   | SAMPLE<br>No.            |                      | SAY                                     | RE<br>As                   | SULT               | LAB.<br>TEST                |
| 0-1.90m soil with pubbles                                                     |                |                          |                      |                                         |                            |                    |                             |
| 2 190-630m dx grey finess with few ze Vls                                     |                |                          |                      |                                         |                            |                    | <u></u>                     |
| 4-1-1-1                                                                       |                |                          |                      | - 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 |                            |                    | 1                           |
|                                                                               |                |                          |                      |                                         |                            |                    |                             |
| 6.30 6.30-29.70 m few ge vls                                                  |                |                          |                      | -                                       |                            |                    |                             |
| OVXXXIII Dunii oa u/we / Com . 25 /                                           | 7.60<br>8.45   | B-301                    | T                    |                                         |                            | 0.008              |                             |
| 260~9.55m frac. some with 10/17/21100                                         | 9.55           | - 382                    | 0.2                  | <1                                      | 0.62                       | 0,006              |                             |
| 30 10.702 94 1 (0.202)                                                        |                |                          |                      |                                         |                            |                    |                             |
| 2 13.00 m 93 V (W=0.3cm, 25°)                                                 | !              |                          |                      |                                         |                            | 1                  |                             |
| 4 14.70 m 32 V (W=0.2cm, 20°)                                                 |                |                          |                      |                                         |                            |                    |                             |
| 6                                                                             |                |                          |                      |                                         |                            |                    |                             |
| 17.30 - 29.20 m<br>blk sl with ge vls                                         | 193            | م مر                     |                      |                                         |                            |                    |                             |
|                                                                               | 18.5           | 0                        |                      |                                         | E                          | 1000               | î - · ·                     |
| 20 20.2-21.60m frac. zone with gz, lino vls                                   | 20,2           | 305                      |                      |                                         |                            | 2 000              | <del>-</del> 12 . 2 - 2 - 2 |
| 2 1,60 22,1-23.3m frac, zoke with gr, lino v/s & clay                         | 2/.6           | 0                        |                      |                                         |                            | 0,00               | L                           |
| 1 23.90 23.9-24.95m frac zone with gz, lino v/s                               | 23,3           | 30;                      |                      |                                         | 7, 75.3                    |                    | 71                          |
| 24.85 24.85 24.85 - 29.70 m frac. 20 ne with few ga, lino vi                  | 24.8           | 5                        |                      |                                         |                            | 2 010              | 7 - 1                       |
|                                                                               | 265            | 300                      | ₹0.                  | 1 <1                                    | 0.0                        | 1 001              |                             |
|                                                                               | 27.9.          | >                        |                      | :: I . :                                | :: :                       | 10,00              |                             |
| 30 29.70 - 42.2 m<br>dk grey ss with few gz vls (w=a1-1cm, int=20cm)          | 27.2           | ~ (                      | '   0,2<br>          | ²  <                                    | 1 (00                      | 1 0,00             | 7                           |
| dk grey ss with few go vis (weather interior                                  | 30.5<br>∞\3/.5 | n                        |                      |                                         | <del>-   .</del> ,         | 2 0,00             |                             |
| 2+1/1 10 30.50 - 33.7 m dk grey 55 with gz, py, asp V (w=0.1-1.5 cm, int=5-70 | J -,5          | 0 312                    | 0.4                  | $\neg$                                  | $\cdot$                    | 4 000<br>0 000     | TI : . 1                    |
| 4 1 20 20 AM 22 V (W= (CM, HO*)                                               | 33.7<br>34.7   | r                        |                      | 7                                       |                            |                    | P,x_                        |
| 177 18 10 36.0m ge V (w=0.7cm, 50°)                                           | 354            | 0 37                     | ₹0 0.2               | 2 <                                     | 1 40                       | 2 0,00             | 2                           |
| 100 100 sound so with 22. Py V/3 (W= 0.1-1.50)                                | 368<br>378     | 20                       | 0.0                  | _                                       | ·                          | Z 0.14             | <del> </del>                |
| 8 7/1 38.70 (Int= 10cm)                                                       | 38.            | 1                        | 1.0                  | 0 <                                     | 1 KQ                       | pj 0,00            | 6                           |
| 40                                                                            |                |                          |                      | -   4                                   |                            |                    |                             |
| 2-12-20 42.20 - 42.90 m                                                       | 42.            | 20                       |                      |                                         |                            |                    |                             |
| winds degrey sinc 33 mor folly and                                            | 43.            | 25 3/                    |                      | 2 <<br>2 <                              |                            | 01 0,00<br>01 0,00 |                             |
| 4777 425 4205-44.85m 22, pg Vls (w20.1-200, int=0.5~30                        | 1              | 85 3/6                   | 8 0.                 | 6 <                                     | 1 (0                       | 01 00              | <u>3</u>                    |
|                                                                               | 46.            | 00 31                    |                      | 4 \<br>).1 <                            |                            | 01 0,0<br>01 0,0   | **********                  |
| 8 7. 14 47.90 30 47.90m 82, PH V (w=3cm, 30°)                                 | 42             |                          |                      |                                         |                            | 01 (00             |                             |
| 41.90 -52.80m<br>51 lic. 55 with few \$2, py vls                              |                |                          |                      |                                         |                            | -1 1.<br>          |                             |

| $MJSN-3(2/4)$ $50m \sim 100 m$                                                             | L<br>X<br>Y    | evel       |                                       | n I       | irecti<br>nclina<br>ength | ion<br>ation | °<br>M            |
|--------------------------------------------------------------------------------------------|----------------|------------|---------------------------------------|-----------|---------------------------|--------------|-------------------|
| COT (m)  DESCRIPTIONS                                                                      | DEPTH<br>(m)   | SAMPLE No. | A S<br>Au                             | SAY<br>Ag | RES<br>As                 | WLT<br>W     | LAB.<br>TEST      |
| 30.10m ge, pgv. (w=qcn) 2-11:33 51.8m 82, pg v. (w=6cm)                                    | 50.40<br>51.40 | B-322      | υz                                    | <1        | <001                      | 0001         |                   |
| \$2.80~55.00m 23 vls (w=0.1-1cm, int=1-5cm)                                                | 52.80          | 323        | 0,2                                   | - 1       | <001                      | 1000         |                   |
| 1 55.00 355.00 - 50.50 m                                                                   | 2200           | 32¥        |                                       |           | (0.01                     |              |                   |
| 6 # # \$5.00 m 12 V. (W=30 cm, 30°) (W=0.1-2cm)                                            | \$6,50         | 325        | 2                                     |           | a03                       |              |                   |
| 8 1 2790 60.00 W                                                                           | 57.90          | 326        | 0.7                                   | < 1       | <b>4001</b>               | (0001        |                   |
| 60 th 160 51 100 Silic. SS with few 32, py Vls (w=0.1-3cm)                                 | 6000           |            | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |           |                           |              |                   |
| 2 1 1/ 12.00 61.3 m g2 V (w = 0.2 m, 200)                                                  | 62,00          | 327        |                                       |           | 0,02                      |              |                   |
| 62.00- 23.80m silic so with few gz, py vls 4-#                                             | 0-,            |            |                                       |           |                           |              |                   |
| # (5.2m gz, py V(w=1cm, 450)                                                               |                |            |                                       |           |                           |              |                   |
| 1. 1940 2 674m 38, pg V (w= 1cm, 30°)                                                      | 61.40          |            |                                       |           |                           |              |                   |
| 8 1/1/2 18.90 82.4-68.9 x 82, pg vls (w=0.1-2cm, int=5-10cm) 70 4 69.8 m 32 V (w=4cm, 38°) | 68.90          | 329        | 1,4                                   | <1        | gas                       | 0004         |                   |
| 70                                                                                         |                |            |                                       |           |                           |              |                   |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                                                    |                |            |                                       | 25.7      |                           |              |                   |
| 4 73.80 73.8-76.4m 82, Py US                                                               | 2380           | 330        | 23.6                                  | 23        | (001                      | 2461         |                   |
| 6/11/1/20 26.40-81.70 n abu network 82,14 V                                                | 75.00<br>76.40 | 33/        | +                                     |           | 001                       |              |                   |
| 8 78.00 79.00 - 80.70 7                                                                    | 18.00          | 332        | ٥Z                                    | 3,6       | (0.01                     | 0.002        |                   |
| 80 (1/2 19.10 - 91.60 m 92.199 VLS                                                         | 19.10          | 333        | 0.2                                   | - 1       | <b>(001</b>               | N#A/A        |                   |
| 80-71-84.10 m<br>80.70 - 84.10 m<br>81.60 alt (52>55)<br>2 81.60 m ge v (w=7cm, 43°)       | 80.30<br>81.40 | 334        | 0.4                                   | < 1       | 0.02                      | 0.006        | 83-2<br>F<br>83-4 |
|                                                                                            | 81.60          | ==335      | 94                                    | 120       | 0.02                      | 0020         | P                 |
| 1 94.10 94.10-89.30 alt (55.75l) 84.10 84.40 82, py vls                                    | 84.(0          | 1::327:    | 0,5                                   | 2.6       | 0,02                      | 0.007        |                   |
| 6 94.90 - 86.00 m frac. 20nc                                                               | 8640           | 1          | 1,0                                   |           | 0.02                      |              |                   |
| 8 77.40 - 90.90 M                                                                          | 88.40          |            |                                       | 120.00    |                           |              |                   |
| 90 89.30 - 93.50 with few 32 v/s                                                           | 89.30<br>90.10 | M          |                                       | 2.4       |                           |              |                   |
| 2- 92.30 92.3-93.5m 82 VLS                                                                 | 9090           | 33/        | 0.4                                   | <1        | K0.01                     | 0100         |                   |
| 93.17-95.20 Politic few 28 V.                                                              | 92.39          | 1 7071     | K0.1                                  | <1        | 0.01                      | 0,010        |                   |
| 93.10 93.10 19.55 HAC. 2012 WILLIAM                                                        | 95.20          |            |                                       | 1         |                           | V            |                   |
| 6-120-100.10 m<br>dk grey ss with network ge                                               | 96.40<br>93.30 | 24.7       | 0,6                                   |           | K0.01<br>K0.01            |              |                   |
| 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                    | 98.5           | 343        | <0.1                                  | 3.0       | K0.01                     | 0,005        |                   |
| 100 MM                                                                                     |                | 344        | 1,2                                   | < 1       | K0.01                     | 0,004        |                   |

| MJSN-3 (3/7) 100 m ~ 150 m                                                                             | le<br>X<br>Y     | vel<br>       |                                                  | a Ir        | irecti<br>nolina<br>ength |        | n m                                    |
|--------------------------------------------------------------------------------------------------------|------------------|---------------|--------------------------------------------------|-------------|---------------------------|--------|----------------------------------------|
| LITHO DEPTH DESCRIPTIONS                                                                               | DEPTH<br>(m)     | SAMPLE<br>No. | AS<br>Au                                         | SAY<br>Ag   | RES<br>As                 | W      | LAB.<br>TEŠT                           |
| 100 2000 100.10-101.00 m blk slowth few 88, lino vls                                                   | 100,10           |               |                                                  |             |                           |        |                                        |
| 103.00 101.00-103.00m alt (sl >55) with for 3.2 V.                                                     | [13,10           | B-3K50        | <01                                              | <u> </u>    | <0.010                    | 1001   |                                        |
| 103.00-108.20 m<br>92,87 VLS (w=0.1-0.5 cm, int= 1cm)                                                  | 104.00           | 346           | <0,1                                             | <1          | 20000                     | 002    |                                        |
| 6 106.902 106.90-111.70 m  dk greg SS with few gr Vls                                                  | 106.90           | 348           | <0.1                                             | <1          | 0,07                      | 202    |                                        |
| 8-111-3 108.20 dx greg 55 with few 72 vis<br>5 108.40 m 92, pgv. (w=0.3cm, 25°)                        | 108.20           | 349           | <0.1                                             | < l         | <0.01                     | 2001   |                                        |
|                                                                                                        |                  |               |                                                  | <u> </u>    | <br>                      | 1.1    |                                        |
| 2- 11/20 111.7-115.9 m dk grey silic.55 with 92,17,05p v. (max=8cm)                                    | 111.70           | 350<br>351    |                                                  |             | <0.01<br><0.01            |        |                                        |
| 4 7 11800 111.7-1130 frac. 2012 (w = g cm) 112.30 m 83, pg, asp V. (w = g cm) 113.33-1140 m frac. 2012 | 114.75           | 352           | 0.4                                              | <1          | 0,03                      | 0,006  |                                        |
| 6 # 15 over silve so with sl bands and few 78 vls                                                      | 115.90           | 353           | (0.1                                             | <1          | 0.03                      | 6603   |                                        |
| 8- 11/3/m 92 brown-tor 105 V. (w=23-)30 /                                                              |                  |               |                                                  |             |                           |        | 1,435<br>18,631<br>21,531              |
| 120 120 50m 82, asp V (w=1cm, 40°)                                                                     | //9.80           | 354           | <u> </u>                                         | ₹<br>₹1     | 102                       | oco3   |                                        |
| 121.00-139.85 will as asp V & vls                                                                      | 121.00           | 355           | 0.8                                              | <1          | 0.05                      | ONZO   | ************************************** |
| 122.35 -124.40m with 32, py network  4-100 (128.40m) 123.50m 32 V (W=4cm, 36°)                         | (2 <b>).3</b> 5  | 35 6<br>35 7  |                                                  |             | (0,01<br>(0,01            |        | -                                      |
|                                                                                                        | 125.70           | 358           | 1.22 X ==                                        | 77, 177     |                           | 57.7.1 |                                        |
| blk sl with few gripy, asp vls in joints                                                               | 127.20           | 359<br>-360   |                                                  | 100 700 800 | 0.01<br>(001              | *      |                                        |
| 130 129.80 - 138.45m of dk greyss with few py, frac. 20ne of dk greyss with few py,                    | 129.80           | 361           | ⟨0,                                              | <1          | (0,01                     | 0004   |                                        |
| asp in joints                                                                                          | 131.00           | 362<br>363    |                                                  |             | 0.01                      |        |                                        |
|                                                                                                        | 132.60           |               | <del>                                     </del> |             | K001                      |        |                                        |
| 134.60-135.60 M<br>grey 5 ilic 55 with 92, py vls                                                      | 139,60<br>135,60 | 27.6          | <u> </u>                                         |             | K0.01                     |        | 1                                      |
|                                                                                                        |                  |               |                                                  |             |                           |        |                                        |
| 8 138.45 138.45 - 154.70 mg blk sl with tew 82 vls                                                     |                  |               | 1 7 7                                            |             |                           | 1.5    |                                        |
| 140 139.90 m 32, py V(w=40m, 26°)                                                                      |                  |               |                                                  |             |                           |        |                                        |
| 2-143.25-145.10 m. 143.25-145.10 m. 143.25-145.10 m. 143.25-145.10 m. 143.25-145.10 m.                 | 46               |               |                                                  |             |                           |        |                                        |
| 15.00 so 165 10m 32, py, asp V(w=10cm, 46°)                                                            | 143.15           | 366           | 0,5                                              | <1          | <0.01                     | 0,006  |                                        |
| 6- 146.90 m 88, tor, Py V (wo 200, 30°)                                                                |                  |               |                                                  |             |                           |        |                                        |
| 8                                                                                                      |                  |               |                                                  |             |                           |        |                                        |
| 150                                                                                                    |                  | 1             | <u> </u>                                         |             |                           |        |                                        |

| MJSN-3(4/1) 150 m ~ 200 m                                                                                                                                                                                                      | <b>!</b><br>)    | eve)          | ا ب         | m I        | irect<br>nclin<br>ength | ation                          | •<br>•                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|-------------|------------|-------------------------|--------------------------------|----------------------------------------|
| LITHO-OEPTH DESCRIPTIONS                                                                                                                                                                                                       | DEPTH<br>(m)     | SAMPLE<br>No. | AS<br>Au    | \$AY<br>Ag | RE<br>As                | W                              | LAB.<br>TEST                           |
| 2 151,70 m g 8, brown tor, asp, pg V(w=3cm, 40°) 2 (552,00 m f 2, brown tor, pg V(w=5cm, 45°)                                                                                                                                  | 151.10<br>152.00 | 8-367         | 42          | <b>V</b> 1 | <001                    | 0005                           |                                        |
| 4 133,00 × 92, brown tor, py V(w=3cm, 400)                                                                                                                                                                                     |                  |               | <u> </u>    |            |                         | •                              | : : : : : : : : : : : : : : : : : : :  |
| 154.70 0 154.70 - 180.30 m   154.90<br>156.00 | 368<br>369    | 1.5         |            | <0.01                   |                                |                                        |
| 8- 155.70 M 82, P8 V (N=6cm, 43°) 8- 156.70 M 82, tor, p9 V (N=3cm, 45°) 152.8 M 22, P8 V (N=2cm, 45°)                                                                                                                         | 156.70           |               | 0.5         | <1         | < 901                   | 0.064                          | ***                                    |
| 157.8m fz. Pg V (w=2cm) 159.00 82, brown tor, Pg asp V (w=4cm, 4)                                                                                                                                                              | )**)             |               |             | ·          | =                       | - 1 <u>-</u><br>- 3 <u>-</u> 2 | 1.11                                   |
| 2-4/5/ 161.40m g 2, py, brown tor. V (w=2cm, 50°)                                                                                                                                                                              | (62.5°           | 370           | 0.2         |            | <0.01                   |                                |                                        |
| 4 11 1850 \$ 169.50m gz, py, brown tor, asp V(w=1.50                                                                                                                                                                           |                  | 371<br>- 372  | (0.1<br>0.2 | <1.        | <001<br>0,02            |                                |                                        |
|                                                                                                                                                                                                                                |                  |               |             |            |                         |                                |                                        |
| 8- 4-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-                                                                                                                                                                                      |                  |               |             |            |                         |                                |                                        |
| 170                                                                                                                                                                                                                            |                  |               |             |            |                         |                                |                                        |
| 123.30m g2 V (w = 0.2 cm, 30°)                                                                                                                                                                                                 |                  |               | 7           |            |                         |                                |                                        |
|                                                                                                                                                                                                                                |                  |               |             |            |                         |                                |                                        |
| 8 179.80× 22 V(w=(cm, 40°)                                                                                                                                                                                                     |                  |               |             |            |                         |                                | ************************************** |
| 180- 180.30 - 181.40m 32, prown tor; py, asp V. (w= 3=4; 4                                                                                                                                                                     | )°)              |               |             |            |                         |                                |                                        |
| 2- 2- 188.40 190.30-183.80m frac. 20ne                                                                                                                                                                                         | 186.40           | 373           | (0.1        | <1         | 0.01                    | 0,003                          |                                        |
| 183.80 - 188.00 de grey silic. 55                                                                                                                                                                                              |                  |               |             |            |                         |                                |                                        |
| 6-27.70                                                                                                                                                                                                                        |                  |               |             |            |                         |                                |                                        |
| 8- 189.0 - 189.0 m gs, brown tor, py, asp V. 1 Vls 188.0 m g2, brown tor, py, asp V (w= 1cm) 189.0 m g2, brown tor, py asp V (w=3cm)                                                                                           | 1880             | 1324          | 0.2         | <1         | 0.01                    | 0.001                          |                                        |
| 190 - 189.00 - 200.00 m ge v d vls                                                                                                                                                                                             | 189,00           |               |             |            | 1.<br>1.<br>1. 1. 1.    |                                |                                        |
| 2 191.90m 82, tor, py V(w=1cm, 350)                                                                                                                                                                                            |                  |               |             |            |                         |                                |                                        |
| 198.50-197.90m                                                                                                                                                                                                                 | 175.51           | 30            |             |            | 433                     |                                |                                        |
| 6 px frac zone with gr, py VLS                                                                                                                                                                                                 | 1955             | 376           | K01<br>K01  | <1         | (0,01                   |                                |                                        |
| 8 197.80 \$ 197.80 gz. brown tor, Py V ( w=2-m, 450                                                                                                                                                                            | 19790            | 317           | 0.2         | <1         | 0,02                    | 0,002                          |                                        |
| 200                                                                                                                                                                                                                            | <u></u>          |               | <u> </u>    | <u>L</u>   |                         | <b>L</b>                       | <u> </u>                               |