Capter 2 Recommendation for the Phase II Survey and the

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(1) Diamond drilling should be carried out to No.1 ore body of Sautbay deposits in the level of -300m bellow the surface, as this section of the ore body can be the immediate target of the future mining.

Data compilation and calculation of ore reserve are to be conducted for Saghinkan deposits(W) which is located in the northwest of Sautbay deposits and exploration has already been done.

In Phase III survey, calculation of ore reserve estimate and prefeasibility study are to be conducted in order to study the possibility of developing Sautbay deposits including Burgut and Saghinkan deposits.

(2) Diamond drilling should be carried out to the downward extension from -70m level of Bulutkan showing(Au), in which existence of high grade gold ore is already known.

In Bulutkan showing, four zones of brecciated, ferrugenous, silicified metasomatite extending up to 4.5km are expected to occur under the surface gravel bed. Geophysical survey and trenching should be conducted to find out the horizontal and vertical extension of mineralization.

(3) An analysis of the satellite image has revealed the location of 17 alteration zones in which 4 are in Sautbay-Bulutkan area, and 5 are in Okjetpes area. It is that these alteration zones are the indication of high sulphide type gold mineratization. In order to investigate this possibility the field check surveys are to be conducted.

okan sagak milik a talon milijut, nga nata mili an tilog a fila a daga da nokto nata agga tilota. Daga saman anga milina a saman at malam daga ng Samaga (1971) gili sa Taga milina sa tilota.

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Parameter and Comments of

APPENDICES

Ap. 1 List of Rock Samples(1)

	Sample	Field Name	Locality	Remarks		Rock	1111
	No.				W.A	T	X
	FR-2	Lamprophyre	Bulutkan	float(Mld.Perm)	0	0	254
1	FR-3	Quartz syenite	Bulutkan	float(Late Carb	0	О	
	· · · · · · · · · · · · · · · · · · ·		1900	Early Perm.)	44		111
ļ	FR-4	Granodiorite	Burgut	core(No.673,45m)	0		5 f. j.
	FR-7	Granite	South Turbay	trench waste	O		-7.1
	FR-8	Granodiorite	South Turbay	trench waste	O	O	
	FR-9	Granodiorite	North Turbay	trench waste	O		: 27
	FR-12	Granosyenite	Okjetpes	trench waste	Ó	of Age	2.37
1	FR-13	Granodiorite porphyry	Okjetpes	outcrop	0	0	· 1.2
		[* * * * * * * * * * * * * * * * * * *	42° 03.01'N	í			
ļ	···		64° 05.89' E				
******	FR-14	Microdiorite	Okjetpes	shaft waste	0		
******	FR-16	Quartz diorite porphyry	Bathanny	trench waste(Pre. ore)	O	0	****
1	FR-17	Granodiorite	Barhanny	trench waste	О		: .
			42° 02' 24"N			3	
			64°: 09' 56"E	History (1997)	2.		
I	FR-18	Two mica granite	Djylandy	outcrop(Oltyntau	0	************	• **• • • • • • • • • • • • • • • • • • •
	ţ		42° 10.45' N	intrusive, Late Carb	1. 31		: •
ļ			63° 42. 82' E	Perm.)	: .		* +
F	R-19	Aplite(pegmatitic)	Djylandy	core(No.2)	0	- 1)	
	R-20	Quartz diorite	Djylandy	core(No.2)	O		
F	R-22	Microgranite	Sarytau	shaft waste	0		1 .
F	R-23	Granodiorite	Sarytau	shaft waste	O	O	************
	3 (42° 09' 16″N			·	
			64° 18' 14″E			,	٠.
F	R-25	Microgranite	Sarytau	outcrop(dyke)	0		:
	*****************	***************************************		EW75-80N, W=3m	. [ļ	•
******	R-27	Lamprophyre	Okjetpes	core(CKB-57,150m)	О	0	**********
F	R-29	Lamprophyre		core(CKB-60,39.0m)	O	O	
F	R-30	Diorite	******************************	core(CKB-94,45.0m)	O		
F	R-31	Granite		core(CKB-26,145m)	O		
F	R-32	Granite porphyry	************************************	core(CKB-26,215m)	0		
F	R-33		******************************	core(CKB-26,362m)	Ö	······································	
F	R-34	Granite porphyry		core(CKB-258,72m)	Ō	···········	
F	R-35	Aplite		core(CKB-258,84m)	O	0	
F	R-36	Granite .	Saghinkan	core(CKB-259,405m)	0		
F	R-37	Granite :		core(CKB-73,85m)	O	······································	

W.A: Whole rock analysis

T: Thin section

X: X-ray analysis

Ap. 1 List of Rock Samples(2)

Sample	Field Name (1997)	Locality	Remarks 11 (4)		Rock	0.5%
No.	(x, y)			W.A	Т	Χ
FR-38	Granite	Sautbay	core(CKB-73,365m)	O	O	
FR-39	Granite	Sautbay	core(CKB-58,45m)	O	1	3 (
FR-40	Granite	Sautbay	core(CKB-47,40m)	0		
MA-32	Porphyrite Annual Annua	North Bulutkan	outcrop(dyke)	Ο		1
MA-33	Granodiorite	North Bulutkan	outcrop(dyke)	O		di.
MA-35	Granodiorite	North Bulutkan	outerop	O	О	
MA-38	Granite porphyry	Sautbay	core(CKB-2818,52m)	0		. Ven
MA-44	Granite	Kokpatas	outcrop	0		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
MA-1	Phillite	S.E.Kokpatas	weathered,	osti ei	9 44	0
,			partially Fe-stained	***************************************		
MA-2	Hornfels	Bulutkan	phillitic,Fe-stained			0
MA-4	Hornfels	Sautbay !	quartz stock work,	311 (5)		О
		សង្គិចម៉ោ	Fe-stained			10
MA-11	Limestone	Okjetpes	Fe-stained			О
MA-12	Siltstone	Barhanny	yellow loess		1	O
MA-13	Shale	S.Okjetpes	Pe-stained			0
MA-14	Shale	S.Okjetpes	Fe-stained	(0
MA-17	Granite	Djylandy	weakly weathered			Ο
MA-20	Dolomite	Cholcharatau	weak skarinization			0
MA-21	Shale	Cholcharatau	weak skarinization			0
	Hornfels	Sarytau	blacky,biotite	;		0
	Granite	N.Bulutkan	weathered			Ó
MA-37	Shale>skarn,granite	Sautbay	float		. ,	O
MA-39	Siltstone	Kokpatas	Cretaceous sediment			0
MA-40	Granite	Kokpatas	altered plagiogranite	***************************************		0
MA-41	Shale	Kokpatas	altered			0

W.A: Whole rock analysis

T: Thin section

X: X-ray analysis

Ap. 2 List of Ore Samples(1)

Sample	Locality	Remarks Andrew	T	Ore	
No.			A8	A5	P
FO-1	South Turbay	shaft waste, quartz with pyrite	3.1.1	- 1 1 m	0
FO-4	Okjetpes	shaft waste, oxidized ore (pyrite, arsenopyrite,			O
		gypsum, hydro-oxide copper)		111.6	The second
FO-5	Okjetpes	shaft waste, grey quartz with sulphide veinlets			O
FO-7	Barhanny	shaft waste, quartz velns with hematite	1	1 1 1	O
FO-8	Sarytau	shaft waste, skarn			O
	42° 09.58'N	The factor of the second in the second	\$ 1 × 1	: 14/}-	
	64° 18. 26' E		1 12		
FO-13	Okjetpes	core(CKB-67,93m)			О
FO-15	Saghinkan	core(CKB-201,476.7 - 476.9m)		111	O
FO-16	Saghinkan	core(CKB-258,118m)			О
FO-22	Saghinkan	core(CKB-259,309.6m) granite			0
MA-27	Sarytau	granite with quartz, Mo	i ngag		O
FO-3	North Turbay	outcrop, quartz veins in the silicified rock	О		: ;
		(EW,85N, W=2.15m)			: 1
FO-6	Okjetpes	trench outcrop, quartz veins	0	***********	
		(N48W 75SW, W=3.9m)			
217125	Saghinkan	CKB217(345.5 - 349.3m) Hornfels	О		
217126	Saghinkan	CKB217(349.3 - 349.6m) Hornfels	O		
217127	Saghinkan	CKB217(349.6 - 352.2m) Hornfels	0		:
217128	Saghinkan	CKB217(352.2 - 355.0m) Hornfels	0		
217130	Saghinkan	CKB217(355.8 - 356.7m) Hornfels	0	:	
217131	Saghinkan	CKB217(356.7 - 358.3m) Hornfels	0		
217133	Saghinkan	CKB217(358.7 - 359.3m) Hornfels	0		
217138	Saghinkan	CKB217(361.5 - 362.0m) Hornfels	0	***************************************	
217139	Saghinkan	CKB217(362.0 - 362.8m) Hornfels	'O'		
217144	Saghinkan	CKB217(369.1 - 369.7m) Hornfels	0	***************************************	
3361-1	Bulutkan	C-3361(0 - 2m) Siltstone		0	**********
3361-2	Bulutkan	C-3361(2 - 4m) Siltstone	0		
3361-3	Bulutkan	C-3361(4 - 6m) Siltstone		0	
3361-4	Bulutkan	C-3361(6 - 8m) Siltstone		0	
3361-5	Bulutkan	C-3361(8 - 10m) Siltstone	0		
3361-6	Bulutkan	C-3361(10 - 12m) Hornfels		0	
3361-7	Bulutkan	C-3361(12 - 14m) Hornfels		0	
3361-8	Bulutkan	C-3361(14 - 16m) Hornfels	0		
3361-9	Bulutkan	C-3361(16 - 18m) Hornfels	· ••••••••••••••••••••••••••••••••••••	0	***********
3361-10	Bulutkan	C-3361(18 - 20m) Hornfels		0	
3361-11	Bulutkan	C-3361(20 - 22m) Hornfels		0	

A8: Chemical analysis(8 elements)

A5: Chemical analysis(5 elements)

P: Polish

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Ap. 2 List of Ore Samples(2)

Sample	Locality	Remarks		Ore	
No.	eri i		A8	A5	P
324040	Turbay	3240(78.0 - 80.0m) Quartzite	0	\$	4
324041	Turbay	3240(80,0 - 82,0m) Quartzite (44)	IA.	О	***
324042	Turbay	3240(82.0 - 84.0m) Quartzite		0	
324043	Turbay	3240(84,0 - 86.0m) Quartzite	7.3	O_{i}	
324044	Turbay	3240(86.0 + 88.0m) Quartz	14.14	0	}
324045	Тигвау	3240(88.0 - 90.0m) Quartz	О	5 \$; <u>}</u>
324046	Turbay	3240(90.0 - 92.0m) Quartz	14.4	. O	
324047	Turbay	3240(92.0 - 94.0m) Quartz	1 21	0	
324048	Turbay	3240(94.0 - 96.0m) Quartz	3, 3	0	1.7
121034	Sautbay	CKB-121(234.7 - 235.8m) Skarn	0	373	÷. }
121035	Sautbay	CKB-121(235.8 - 239.0m) Granitoid	0	. (3.5	
175036	Sautbay	CKB-175(85.0 - 86.5m) Limestone	0		
175037	Sautbay	CKB-175(86.5 - 87.5m) Quartzite	Ο		
175038	Sautbay	CKB-175(87.5 - 88.5m) Quartzite) O		1
175039	Sautbay	CKB-175(88.5 - 90.2m) Quartzite	0		1
175040	Sautbay	CKB-175(90.2 - 92.0m) Quartzite	Ο	2) i	1
175041	Sautbay	CKB-175(92.0 - 93,3m) Skarn	0		,
175042	Sautbay	CKB-175(93.3 - 94.6m) Skarn	0		- 1
175043	Sautbay	CKB-175(94,6 - 95,6m) Skarn	0		
175044	Sautbay	CKB-175(95.6 - 97.0m) Skam	O	7. Fg	
175045	Sautbay	CKB-175(97.0 - 98.4m) Skarn	O	1,8 1	
175047	Sautbay	CKB-175(98.8 - 100.3m) Skarn	0	112 (

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A8: Chemical analysis(8 elements)

A5: Chemical analysis(5 elements)

P. Polish

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Ap. 3 Assay Results of Ore Samples

						•			•	
Sample No,	Locality	Remarks	Au	Ag	Cu	Pb	Zn	WO3	Mo	Bi
Sensibility			g/t	g/t	%	%	%	%	%	%
FO-3	North Turbay	outgron, quarta voing in the ciliaided and	0.1	0.1	0.01	0.01	0.01	0.01	0.01	0.01
·····		outcrop, quartz veins in the silicified rock (EW,85N, W=2.15m)	1.0	0.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FO-6	Okjetpes	trench outcrop, quartz veins (N48W 75SW, W=3.9m)	1.4	3.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
217125	Saghinkan	CKB217(345.5 - 349.3m) Hornfels	0.2	3.2	0.01	<0.01	0.01	<0.01	<0.01	<0.01
217126	Saghinkan	CKB217(349.3 - 349.6m) Hornfels	<0.1	1.1	0.03	<0.01	0.01	<0.01	<0.01	<0.01
217127	Saghinkan	CKB217(349.6 - 352.2m) Hornfels	<0.1	9.8	0.03	<0.01	0.01	<0.01	<0.01	<0.01
217128	Saghinkan	CKB217(352.2 - 355.0m) Hornfels	0.1	<0.1	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
217130	Saghinkan	CKB217(355.8 - 356.7m) Hornfels	<0.1	<0.1	0.01	<0.01	0,01	0.05	<0.01	<0.01
217131	Saghinkan	CKB217(356.7 - 358.3m) Hornfels	0.2	2.4	0.03	<0.01	0.02	0.38	<0.01	<0.01
217133	Saghinkan	CKB217(358.7 - 359.3m) Hornfels	<0.1	8.2	0.06	<0.01	0.01	<0.01	<0.01	<0.01
217138	Saghinkan	CKB217(361.5 - 362.0m) Hornfels	0.1	<0.1	0.04	<0.01	<0.01	1.40	<0.01	<0.01
217139	Saghinkan	CKB217(362.0 - 362.8m) Hornfels	0.1	4.0	<0.01	<0.01	<0.01	0.06	<0.01	<0.01
217144	Saghinkan	CKB217(369.1 - 369.7m) Hornfels	<0.1	20.8	0.02	0.02	<0.01	<0.01	<0.01	0.03
3361-1	Bulutkan	C-3361(0 - 2m) Siltstone	47.6	<0.1	0.10	<0.01	<0.01	, 10.01		0.03
3361-2	Bulutkan	C-3361(2 - 4m) Siltstone	88.3	6.4	0.12	<0.01	<0.01	<0.01	<0.01	0.07
3361-3	Bulutkan	C-3361(4 - 6m) Siltstone	14,9	10.8	0.07	<0.01	<0.01	V.01		0.07
3361-4	Bulutkan	C-3361(6 - 8m) Siltstone	91.5	35.3	<0.01	<0.01	<0.01			
3361-5	Bulutkan	C-3361(8 - 10m) Siltstone	23.8	34.5	0.02	<0.01	<0.01	<0.01		
3361-6	Bulutkan	C-3361(10 - 12m) Hornfels	17.8	<0.1	0.31	<0.01	<0.01	<u> </u>	<0.01	0.02
3361-7	Bulutkan	C-3361(12 - 14m) Hornfels	11.4	9.5	0.28	<0.01	<0.01			
3361-8	Bulutkan	C-3361(14 - 16m) Hornfels	3.3	17.4	0.47	<0.01	<0.01			<0.01
3361-9	Bulutkan	C-3361(16 - 18m) Hornfels	5.6	13.7	0.38	<0.01	<0.01	<0.01	<0.01	<0.01
3361-10	Bulutkan	C-3361(18 - 20m) Hornfels	5.9	<0.1	0.35	<0.01	<0.01	<u> </u>		
3361-11	Bulutkan	C-3361(20 - 22m) Hornfels	10.5	1.4	0.47	<0.01	<0.01			
324040	Turbay	3240(78.0 - 80.0m) Quartzite	1,1	16.6	0.02	<0.01	<0.01	<0.01		<0.01
324041	Turbay	3240(80.0 - 82.0m) Quartzite	2.9	<0.1	0.02	<0.01	<0.01	<u> </u>	<0.01	<0.01
324042	Turbay	3240(82.0 - 84.0m) Quartzite	3.3	8.5	0.03	<0.01	<0.01		•	*
324043	Turbay	3240(84.0 - 86.0m) Quartzite	6.0	25.0	0.03	0.01	<0.01		•	-
324044	Turbay	3240(86.0 - 88.0m) Quartz	1.8	<0.1	0.02	<0.01	0.01			· · · · ·
324045	Turbay	3240(88.0 - 90,0m) Quartz	4.1	21.4	0.02	<0.01	<0.01	<0.01	<0.01	0.01
324046	Turbay	3240(90.0 - 92.0m) Quartz	1.5	<0.1	0.01	<0.01	<0.01	<u> </u>		0.01
324047	Turbay	3240(92.0 - 94.0m) Quartz	0.4	<0.1	0.02	<0.01	<0.01			
324048	Turbay	3240(94.0 - 96.0m) Quartz	0,2	<0.1	0.01	<0.01	<0.01		-	-
121034	Sautbay	CKB-121(234.7 - 235.8m) Skarn	<0.1	2.9	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
121035	Sautbay	CKB-121(235.8 - 239.0m) Granitoid	0.1	6.4	<0.01	<0.01	<0.01	<0.01	<0.01	
175036	Sautbay	CKB-175(85.0 - 86.5m) Limestone	0.6	1,6	0.16	<0.01	<0.01	2.63	<0.01	<0.01 0.01
175037	Sautbay	CKB-175(86.5 - 87.5m) Quartzite	0.6	0.3	0.11	<0.01	<0.01	0.95	<0.01	
175038	Sautbay	CKB-175(87.5 - 88.5m) Quartzite	0.5	32.2	0.18	<0.01	<0.01	2.05	<0.01	· 0.01 <0.01
175039	Sautbay	CKB-175(88.5 - 90.2m) Quartzite	<0.1	<0.1	0.08	<0.01		~ ·	·	
175040	Sautbay	CKB-175(90.2 - 92.0m) Quartzite	<0.1	<0.1	0.03	<0.01	<0.01 0.01	0.39	<0.01	<0.01
175041	Sautbay	CKB-175(92.0 - 93.3m) Skarn	0.5	0.3	0.46	<0.01		<0.01	0.04	<0.01
175042	Sautbay	CKB-175(93.3 - 94.6m) Skarn	1.3	<0.1	0.46		<0.01	2.25	<0.01	<0.01
175043	Sautbay	CKB-175(94.6 - 95.6m) Skarn	0.7	<0.1		<0.01	<0.01	5.62	<0.01	0.03
175044	Sautbay	CKB-175(95.6 - 97.0m) Skarn	1.2		0.28	<0.01	<0.01	7.04	<0.01	0.02
175045	Sautbay	CKB-175(97.0 - 98.4m) Skarn	0.1	<0.1	0.13	<0.01	<0.01	5.97	<0.01	0.04
175047	Sautbay	CKB-175(98.8 - 100.3m) Skarn	0.1	1.9	0.37	<0.01	<0.01	0.86	<0.01	<0.01
	Journal	Terres tropose - 100,3mj oxam	1 0.3	0.6	0.38	< 0.01	<0.01	2.88	<0.01	<0.01

Ap. 4 Analysis Results of Whole Rock Samples

Sample No.	Field Name	Locality	Remarks	SiO ₂	TiO₂	Al ₂ O ₃	Fe ₂ O ₃	FeO	CaO	MnO	MgO	Na ₂ O	K ₂ O	P ₂ O ₅	LOI
On with 1914.	**************************************			%	%	%	%	%	%	%	%	%	%	%	<u>%</u>
Sensibility FR-2	Lamnzanhuzo	Bulutkan	San O fid Days	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
FR-3	Lamprophyre Quartz syenite	Bulutkan	float(Mid Perm) float(Late Carb,-	59.19	0.66	15.65	1.19	3.95	4.71	0.10	4.08	4.22	4.12	0.28	2.50
FK+3	Quartz syenne	Dulutkan	Early Perm.)	65.09	0.48	14.87	<0.01	2.36	3.78	0.11	1.44	3.56	5.15	0.21	4.34
FR-4	Granodiorite	Burgut	core(No.673,45m)	68.24	0.44	16.01	0.42	2.66	3.50	0.04	1.23	4.49	2.48	0.15	9.26
FR-7	Granite	South Turbay	trench waste	67.92	0,52	15.78	1.28	1.34	2.14	0.04	1.55	4.34	4.22	0.13	1.76
FR-8	Granodiorite	South Turbay	trench waste	69.44	0.49	15.80	0.61	1.42	3.17	0.03	0.97	4.01	3.78	0.13	1,14
FR-9	Granodiorite	North Turbay	trench waste	66.28	0.73	15.95	1.14	2.23	3.28	0.04	1.26	4.43	3.15	0.18	1.00
FR-12	Granosyenite	Okjetpes	trench waste	57.00	1.00	14.25	1.02	4.56	5.07	0.10	6.51	4.01	2.04	0.29	3.92
FR-13	Granodiorite porphyry	Okjetpes	outcrop	70.21	0.39	15.97	1.15	1.59	0.78	0.03	1.22	6.28	1.23	0.15	1.72
	4	42° 03.01′N		1				£							1
		64° 05.89'E		<u> </u>								.			
FR-14	Microdiorite	Okjetpes	shaft waste	53.97	1.04	14.32	1.77	4.59	5.89	0.10	6.56	3,52	2.24	0.31	5.16
FR-16	Quartz diorite porphyry	Barhanny	trench waste(Pre. ore)	62.19	0.98	17.30	1.72	2.56	1,26	0.03	2.97	5.16	1.18	0.38	4.05
FR-17	Granodiorite	Barhanny	trench waste	67,57	0.53	15.19	0.51	2.41	2.15	0.03	2.48	6.03	0.48	0.19	3.22
		42° 02' 24"N						·						ļ	1
		64° 09'56"E													
FR-18	Two mica granite	Djylandy	outcrop(Oltyntau	74.03	0.11	14.65	<0.01	0.87	0.77	0.03	0.20	3.61	5.42	0.19	5.16
		42° 10. 45' N	intrusive, Late Carb											i .	l l
		63° 42, 82' E	Perm.)												
FR-19	Aplite(pegmatitic)	Djylandy	core(No.2)	75.20	0.03	14.20	0.47	0.66	0.54	0.40	0.07	4.47	3.78	0.09	4,56
FR-20	Quartz diorite	Djylandy	core(No.2)	72.31	0.25	15.30	0.02	1.84	1.77	0.07	0.50	4.86	2.87	0.05	0.51
FR-22	Microgranite	Sarytau	shaft waste	70.46	0.45	15.54	0.46	2.23	2.65	0.04	0.68	4.46	2.77	0.13	8.05
FR-23	Granodiorite	Sarytau	shaft waste	70.24	0.40	15.39	0.37	2.11	2.36	0.03	0.58	4.30	3.18	0.10	7.62
		42° 09' 16"N													ĺ
		64° 18' 14″E													
FR-25	Microgranite	Sarytau	outcrop(dyke) EW75-80N, W=3m	68.58	0.60	15.98	1.28	2.02	2.71	0.05	0.92	4.50	3.09	0.14	8.48
FR-27	Lamprophyre	Okjetpes	core(CKB-57,150m)	49.97	1.48	14.21	1.23	6.18	5.93	0.12	7.85	3,52	1.65	0.36	6.34
FR-29	Lamprophyre	Okjetpes	core(CKB-60,39.0m)	52.32	1.26	15.07	1,31	6.00	5,35	0.12	7.11	3.75	3.42	0.40	3.13
FR-30	Diorite	Okjetpes	core(CKB-94,45.0m)	46.22	1.03	12.41	1.28	7.02	7.22	0.14	9.69	2.48	1.20	0.21	9.24
FR-3i	Granite	Sautbay .	core(CKB-26,145m)	66.31	0.53	16.45	0.88	2.55	4,60	0.06	1.36	4.80	1.12	0.21	1.15
FR-32	Granite porphyry	Sautbay	core(CKB-26,215m)	65.92	0.48	16.16	1.12	2.52	2.78	0.05	1.49	4.88	2.66	0.16	1.54
FR-33	Aplite	Sautbay	core(CKB-26,362m)	75,54	0.03	13.24	0.37	0.45	0.63	0.02	0.05	5.02	3.67	<0.01	8.17
FR-34	Granite porphyry	Saghinkan	core(CKB-258,72m)	66.34	0.48	16.46	1,36	1.98	3.40	0.06	1.41	4.74	1.82	0.16	1.72
FR-35	Aplite	Saghinkan	core(CKB-258,84m)	77.26	0.04	12,50	0.41	0.23	1.48	0.02	0.12	5.16	2.21	0.05	1.40
FR-36	Granite	Saghinkan	core(CKB-259,405m)	72.66	0.24	14.54	0.59	1.08	1.70	0.02	0.59	4,33	4.04	0.07	7.94
FR-37	Granite	Sautbay	core(CKB-73,85m)	67.83	0.46	16.46	1.09	2.11	3.16	0.04	1.14	4.58	2.80	0.16	7.40
FR-38	Granite	Sautbay	core(CKB-73,365m)	72.42	0.26	14.72	0.51	1.45	1.88	0.03	0.69	4.21	3.55	0.09	6.94
FR-39	Granite	Sautbay	core(CKB-58,45m)	62.50	0.72	16.16	1.52	2.42	2.30	0.06	2.55	3,87	5.44	0.32	1.83
FR-40	Granite	Sautbay	core(CKB-47,40m)	62.04	0.77	15.68	1.49	2.78	2.40	0.08	3.02	3.78	5,51	0.33	2.01
MA-32	Porphyrite	North Bulutkan	outcrop(dyke)	70.93	0.38	15.56	0.74	1.82	2,52	0.05	0.77	4.63	2.38	0.11	0.57
MA-33	Granodiorite	North Bulutkan	outcrop(dyke)	70.88	0.37	15.29	0.51	1.74	2.37	0.05	0.69	4.84	2.85	0,13	6.74
MA-35	Granodiorite	North Bulutkan	outcrop	68.73	0.64	16.82	1,10	2.19	0.61	0.03	1.49	4.34	2.89	0.19	2.14
MA-38	Granite porphyry	Sautbay	core(CKB-2818,52m)	69.92	0.39	15.48	0.47	1.92	2.82	0.03	1.03	5.31	2.21	0.13	1.21
MA-14	Granite	Kokpatas	outcrop	61.83	0.75	15.95	0.99	3.77	4.69	0.08	3.69	4.46	2.99	0.25	5.63

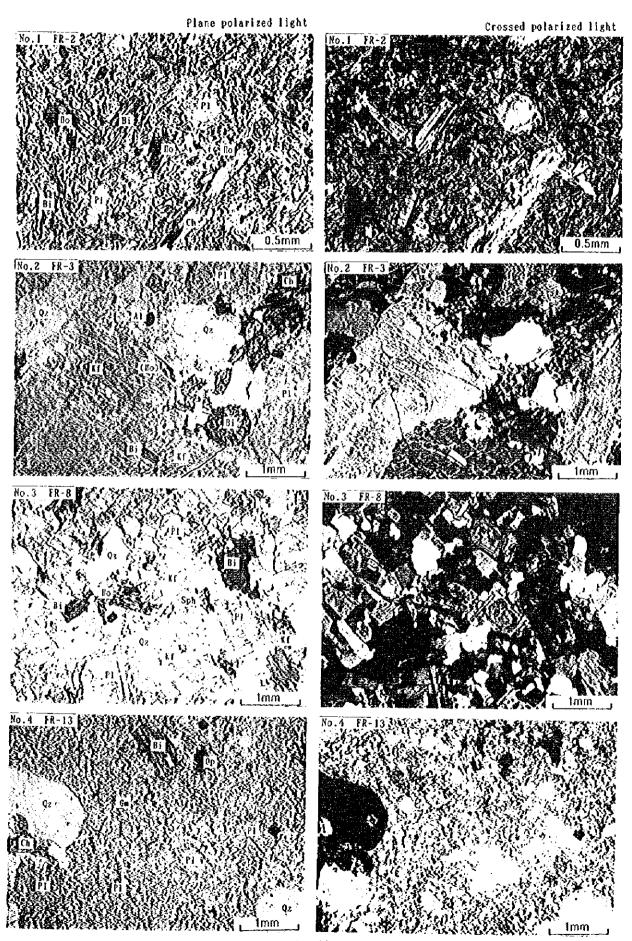
Ap. 5 Photomicrographs and Microscopic Observations of Thin Sections

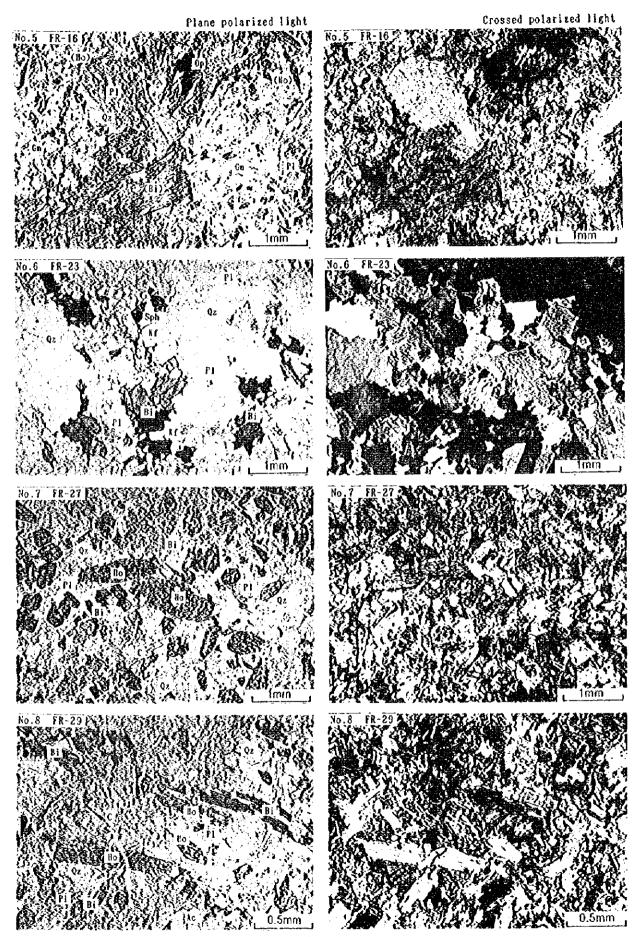
No. number Rock name 1 FR-2 Lamprophyre 2 FR-3 Quartz syenite 3 FR-8 Granodiorite porphyry 5 FR-16 Quartz diorite porphyry 6 FR-27 Lamprophyre 7 FR-27 Lamprophyre 8 FR-29 Lamprophyre 9 FR-35 Aplite 10 FR-35 Granodiorite 11 MA-35 Granodiorite		Primary mineral	Sec. Biner.	
1 FR-2 Lamprophyre 2 FR-3 Quartz syenite 3 FR-8 Granodiorite porphyry 5 FR-13 Granodiorite porphyry 6 FR-23 Granodiorite 7 FR-27 Lamprophyre 8 FR-29 Lamprophyre 9 FR-35 Aplite 10 FR-35 Granodiorite 11 MA-35 Granodiorite	Locality	QzKfPlBiMsHoOpSpApFlAlZrMz	ري	57 15 15 15 15 15 15 15 15 15 15 15 15 15
2 FR-3 Quartz syenite 3 FR-8 Granodiorite 4 FR-13 Granodiorite porphyry 5 FR-16 Quartz diorite porphyry 6 FR-23 Granodiorite 7 FR-27 Lamprophyre 8 FR-29 Lamprophyre 9 FR-35 Aplite 10 FR-35 Granite 11 MA-35 Granodiorite	Bultkan, float	** O O O **	1	24.3
3 FR-8 Granodiorite 4 FR-13 Granodiorite porphyry 5 FR-23 Granodiorite 7 FR-27 Lamprophyre 8 FR-29 Lamprophyre 9 FR-35 Aplite 10 FR-38 Granite 11 MA-35 Granodiorite 02:013742 Kf-K-feldenar Pleplan	Bultkan, float	* * * O	- 1	
FR-13 Granodiorite porphyry FR-26 Quartz diorite porphyry FR-23 Granodiorite FR-27 Lamprophyre FR-29 Lamprophyre FR-35 Aplite FR-38 Granite MA-35 Granodiorite	South Turbaym, trench waste	** 		V f - nonphassition
5 FR-16 Quartz diorite porphyry 6 FR-23 Granodiorite 7 FR-27 Lamprophyre 8 FR-29 Lamprophyre 9 FR-35 Aplite 10 FR-38 Granite 11 MA-35 Granodiorite 02:013rtz Kf-K-feldsnar ploplane		*		07-14-14-14-14-14-14-14-14-14-14-14-14-14-
6 FR-23 Granodiorite 7 FR-27 Lamprophyre 8 FR-29 Lamprophyre 9 FR-35 Aplite 10 FR-38 Granite 11 MA-35 Granodiorite 02:013rtz Kf-K-feldenar Ploplan	Ņ.	* C		סיידישה הייני
7 FR-27 Lamprophyre 8 FR-29 Lamprophyre 9 FR-35 Aplite 10 FR-38 Granite 11 MA-35 Granodiorite 0x:00artx Kf-K-feldenar Dioblan	╂~~-			op.nemarire
FR-29 Lamprophyre FR-35 Aplite FR-38 Granite MA-35 Granodiorite	1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ξ.	\$ \$ \$	
FR-35 Aplite FR-38 Granite MA-35 Granodiorite 02:0uartz Kf-K-feldenar Dl.Dlag	ONJECTES, COLECTOR -01, 100E)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	** ** **	Bi:phlogopitic
FR-35 Aplite FR-38 Granite MA-35 Granodiorite 02:0nartz Kf-K-feldenar Ploplan	Okjetpes, core(CKB-60,58m)	× O O	* \d	Birphlogopitic
FR-38 Granite MA-35 Granodiorite Oz:Onartz Kf:K-feldenar Dl.Dlag	Saghiskan, core(CKB-258,84m) @OOX	* * * O 0	***	Michographic
Granodiorite	Sautbay, core(CKB-73,365m)		ļ	aida adama adia
Oz. Onartz Kf.K-feldenar Dl.Dlag.	North Bultkan, outcrop		×	1170 73 61 113T
00000000000000000000000000000000000000	Plagioclase Bi:Biotite Ms:Muscovite	ovite Ho:Hornblende	Op: Opaque mineral	Sp. Sphene

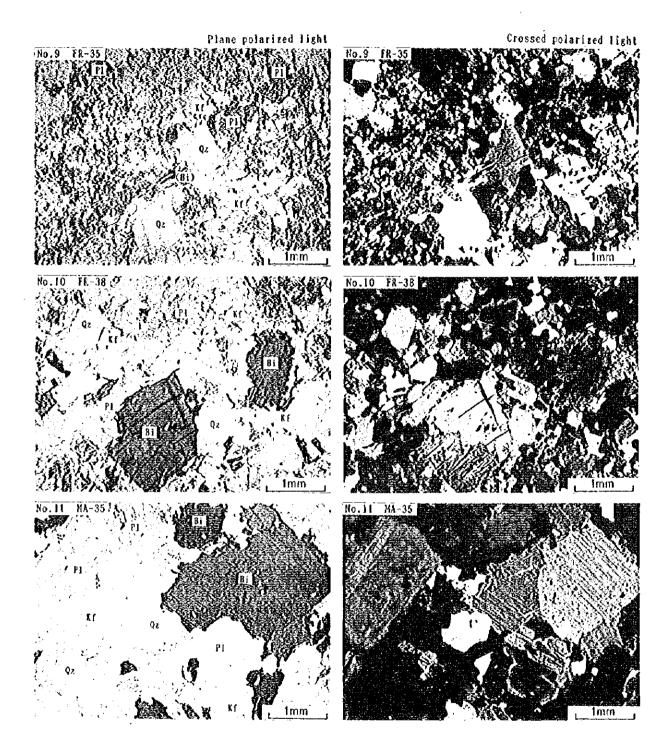
Lc:Leucoxene ©:Common A:Poor %:Rare

Ap:Apatite Fl:Fluorite Al:Allanite Zr:Zircon Mz:Monazite Se:Sericite C:Calcite

Ep:Epidote Ac:Actinolite-tremolite







ABBREVIATION

Al : Allanite

1,)

Bi : Biotite

(Bi): Pseudomorph after biotite

C : Calcite

Ch : Chlorite

Gm : Groundmass

Ho : Hornblende

(No): Pseudemorph after hornblende

Kf : K-feldspar

Op : Opaque mineral

Pl : Plagioclase

Qz : Quartz

Sph: Sphene

Photomicrographs and Microscopic Observations of Polished Sections (1) Ap. 6

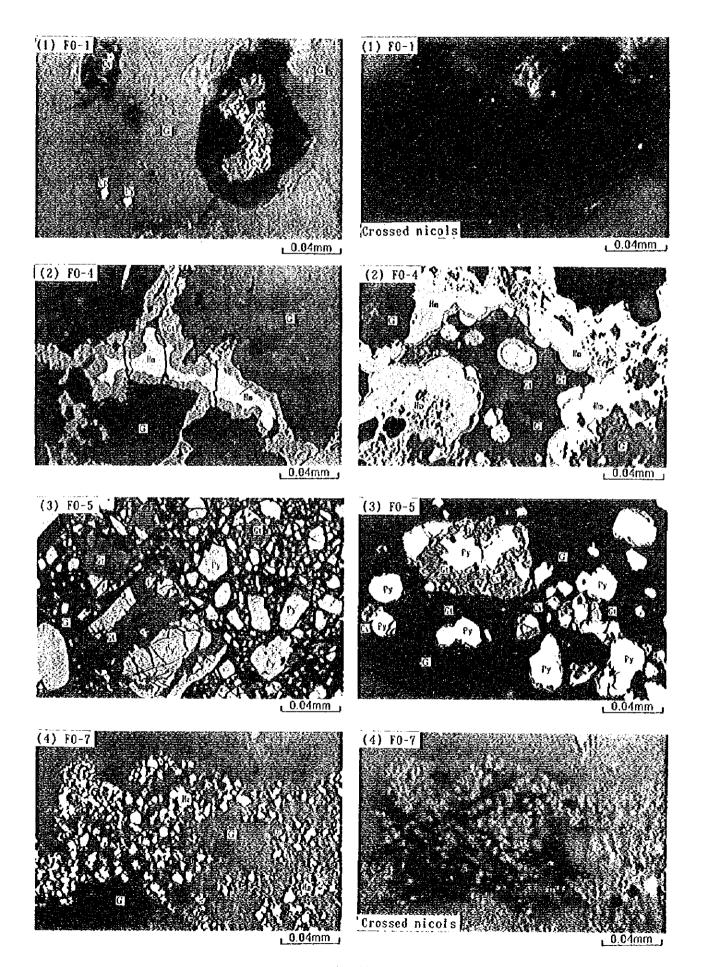
Sample Number		F0-1	F0-4	F0-5	F0-7	F0-8
Locality		South Turbay	Okjetpes	0kjetpes	Barkhannyl	Sarytan
And the second of the second o		The second secon			The state of the s	64° 18′ 26″ F
Ore mineral M	Mbbr	Renarks	Am Renarks	Am Remarks	Am Renarks	Am Remarks
Native bismuth	Bi			1—		
Bismuthinite	멾					
Molybdenite	Q.					
Pentlandite	Pn					
Chalcopyrite	ď	10 cm, dissem				
Covelline	رد	Cp-repl, 2nd		% coex-Gt		
Galena	Gn					
Sphalerite	ζS					
Arsenopyrite	Asp					
Pyrrhotite	Po	,				
Pyrite	Py	Py eu~an, por, vein	Agn, dissem	⊚ eu~an, diss~	diss~vein %an, dissem	
Marcasite	Ms					
Hematite	Hm		O coexisting,		Δeu~an. few~20 μm	
	Gt		O coroform str	△?Py-repl, 2nd		%5~20 µm. 2nd
Ilmenite	11					
Sphene	Sph					

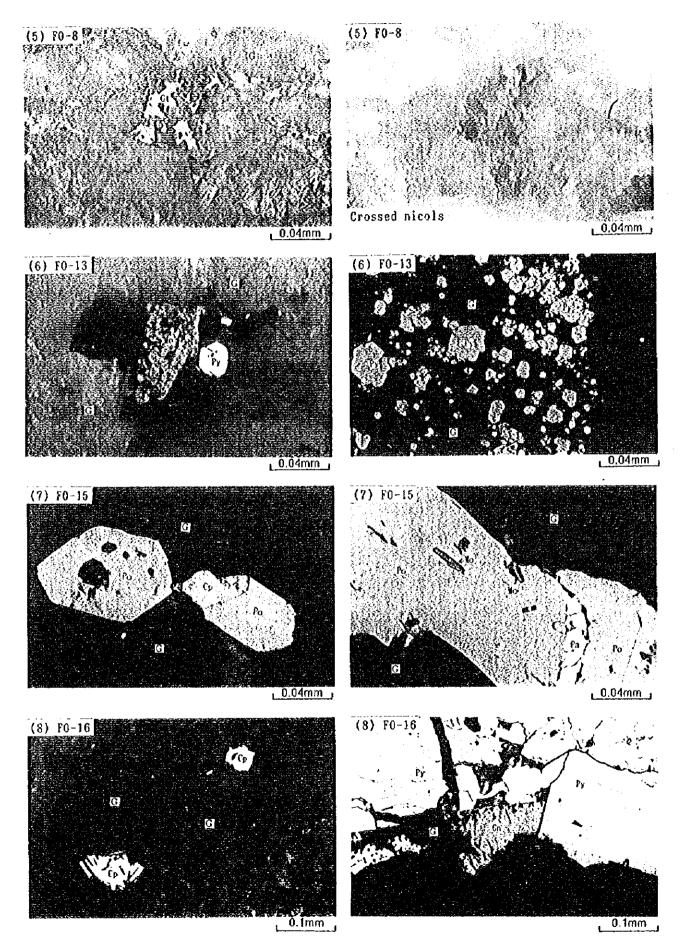
dissem: disseminated eu: euhedral por: porphyritic Abbr:Abbreviations Am:Amount an:anhedral coex-:coexisting with repl-:replacing 2nd:secondary str:structure © abundant ○ common △ poor ※ rare

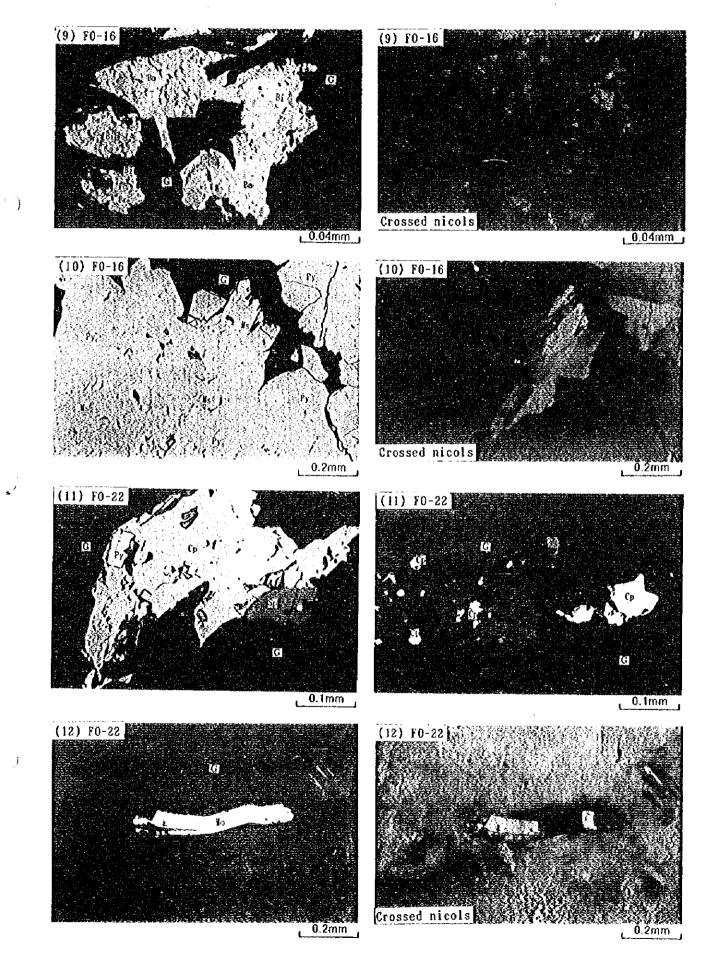
Ap. 6 Photomicrographs and Microscopic Observations of Polished Sections (2)

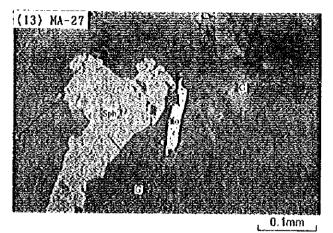
Sachinkan	
	Sarytau
CKB 67.93m CKB 201, 476.7-476.9m CKB 258, 118m CKB	CKB 259; 309; 6m
Am Remarks Am Remarks Am	Wm Remarks
mg. ur. "e77′ tew~50′ tra. Bm	
Δ few~200 μm, dissem~vein	
XX? 80 µm, one grain Xin Po, 30 µm	※500 μm, one grain Δ 120 μm, one grain
	١.
Жтем~50лш, coex-Po Д 10~250 дш, dissem Ж	Жfew~50μm, dissem
	※ few~50 μm, dissem
ď	※150μm, coex Cp
Py & Ms	Xfew~120μm, in Py Δ few~200μm, dissem
eu, aggr~dissem O eu~an, aggr~vein ∆e	△eu~an, vein~dissem △ eu~an, dissem
	Acoex Py
	-
repl-Py, 2nd	
	₩30~120μm, dissem ₩ 20~300μm, coex-Sph
The second secon	△?sporadic
	X

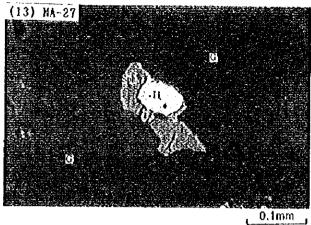
Abbr:Abbreviations aggr:aggregated Am:Amount an:anhedral coex-:coexisting with dissem:disseminated eu:euhedral repl-:replacing 2nd:secondary © abundant O common \triangle poor \times rare











Abbreviations

Asp: Arsenopyrite II : Ilmenite

Cp : Chalcopyrite Pn : Pentlandite
Cv : Covellite Po : Pyrrhotite

G : Gangue minerals Py : Pyrite

Gn : Galena Sp : Sphalerite

Gt : Goethite Sph : Sphene

Hm : Hematite

Ap. 7 Summary of X-ray Diffraction Analysis

Romaric											Tremolite	Tremolite	. I					
129	1 3 q 1 +	3														<	1	
HVAH	+	3	<	1 %	« <	1	×	« »	«									1
Sulfi	۵					×	(T				1
Carbonate	ď					<	1 @	•							 			
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		ļ.,	_	F	-		ľ			+	\dagger	-						Ľ
Locality		Southeast Kokpatas	Bulutkan	Sautbay	Okjetpes	Barhanny	South Okjetpes	South Okjetpes	Djylandy	Cholcharatan	330 3 33 30 30 30 30 30 30 30 30 30 30 3	Lnoicharatau	Sarytau	North Bulutkan	Sautbay	Kokpatas	Kokpatas	アヘンコンナンの
Namp1e	number	MA-1	MA-2	KA-4	MA-11	MA-12	MA-13	MA-14	MA-17	MA-20	7.0	17_W	MA-28	MA-36	MA-37	MA-39	MA-40	17-1W
Š		1	2	3	4	5	9	7	8	6	ļ	3	-	12	23	7.4	15	j y

Al:Alunite Bi:Biotite C:Calcite Ch:Chlorite Do:Dolomite Gt:Goethite Gy:Gypsum Ho:Hornblende Hydr:Hydroxide Ka:Kaolinite Kf:K-feldspar Ph:Phlogopite Pl:Plagioclase Py:Pyrite Qz:Quartz Se:Sericite Sulfi:Sulfide Sm:Smectite © Abundant O Common A Poor ** Rare

LEGEND Messale Console accessisted day confluence accessisted that Semilifer at alter and actual class Christians time specialization in the self-🛂 osas jamani WAND Parity many divide popularity.

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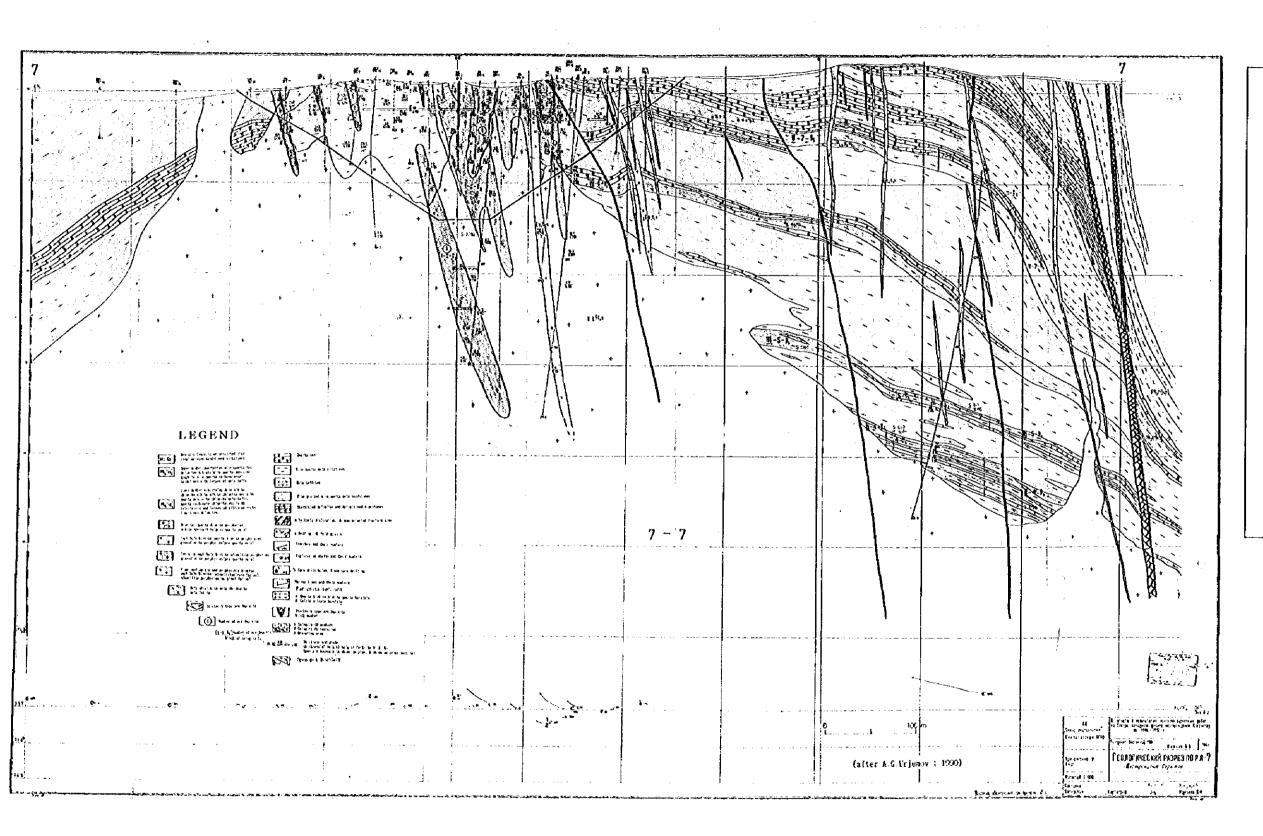
Statical type on Spect is Rathers tops are Sports The first of got at the first of the first o PEDAOPHYECKAR KAPTA (after B.B.Shaakov, A.G.Urjumov; 1990)

THE MINERAL EXPLORATION
IN
THE EASTERN BUKANTAU AREA
THE REPUBLIC OF UZBEKISTAN
(PHASE I)

GEOLOGICAL MAP OF THE SARYTAU
DEPOSITS

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
FEBRUARY 1995
Prepared by MINDECO

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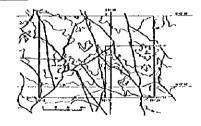


PL II-1-2

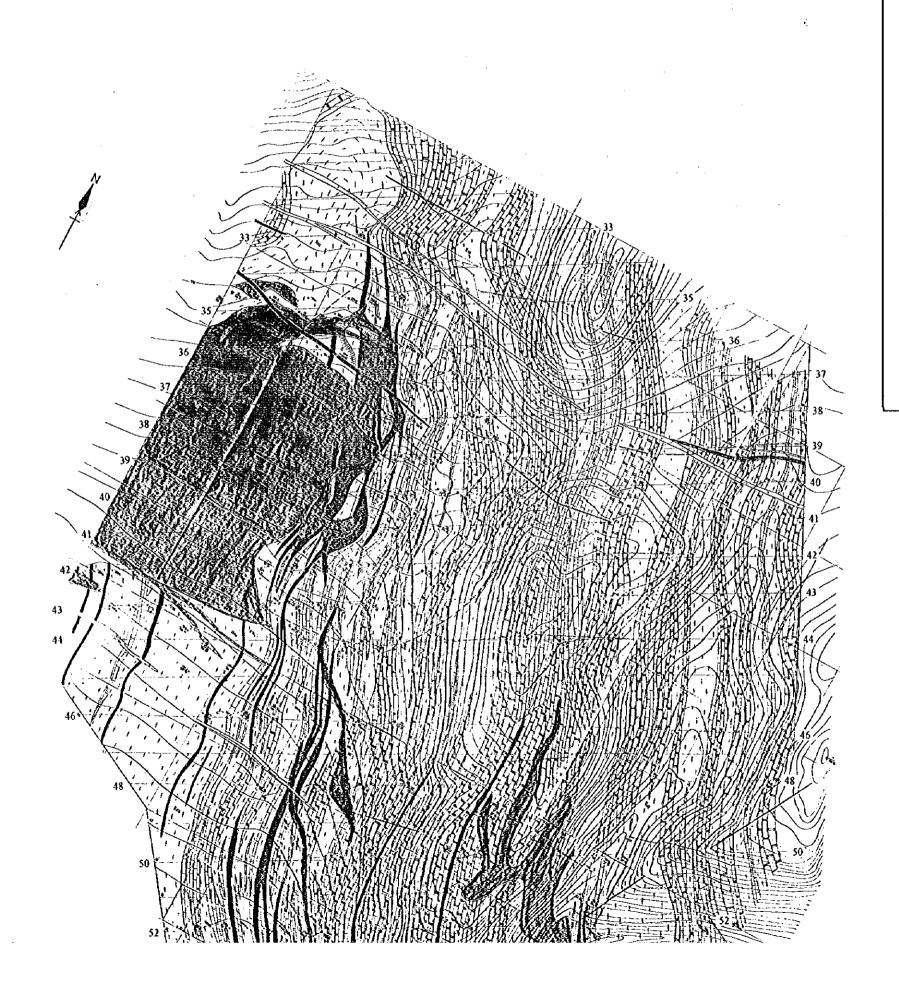
THE MINERAL EXPLORATION
IN
THE EASTERN BUKANTAU AREA
THE REPUBLIC OF UZBEKISTAN
(PHASE I)

GEOLOGICAL CROSS SECTION (LINE 7)
OF THE SARYTAU DEPOSITS





JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
FEBRUARY 1995



PL H-1-3

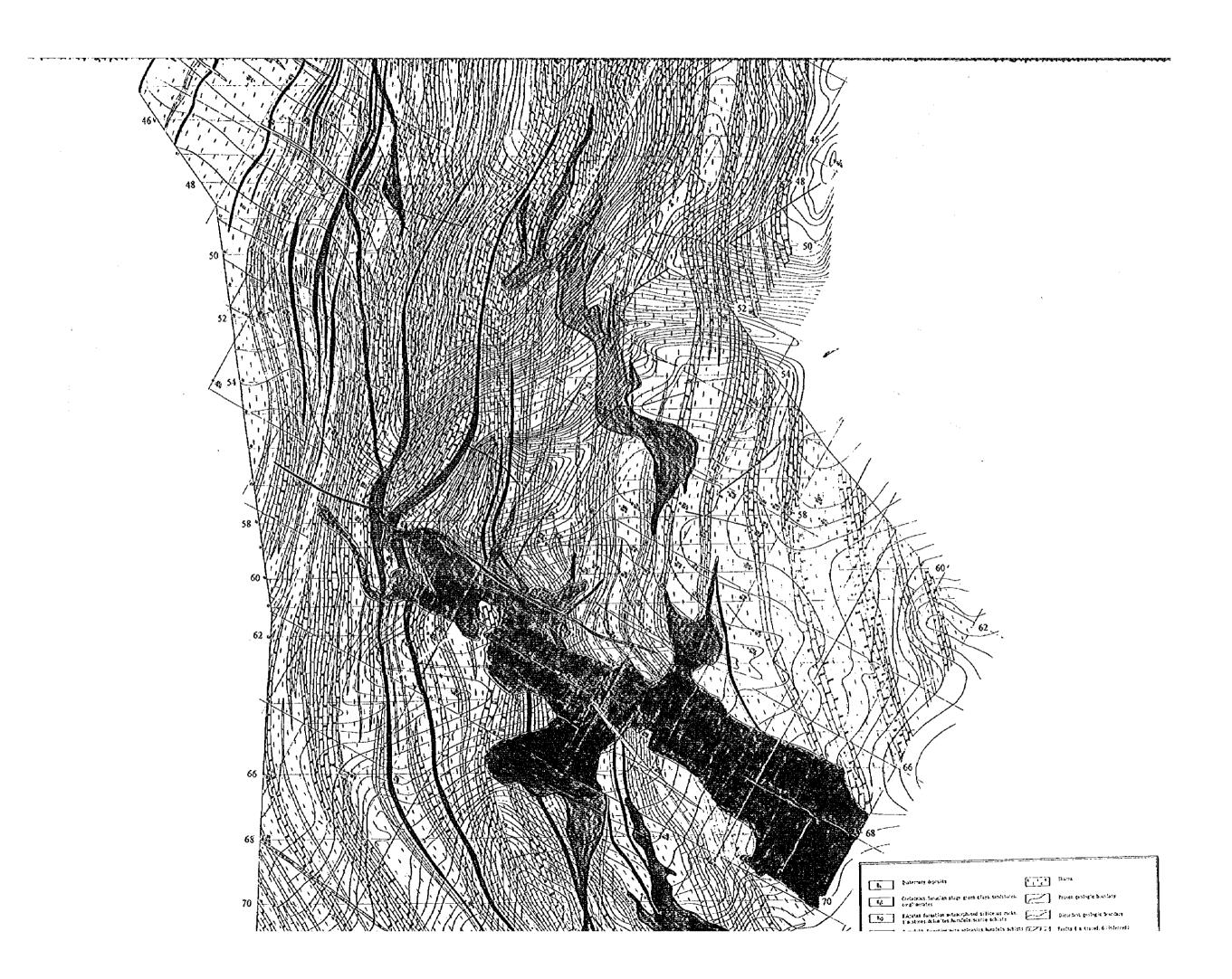
THE MINERAL EXPLORATION IN THE EASTERN BUKANTAU AREA THE REPUBLIC OF UZBEKISTAN (PHASE I)

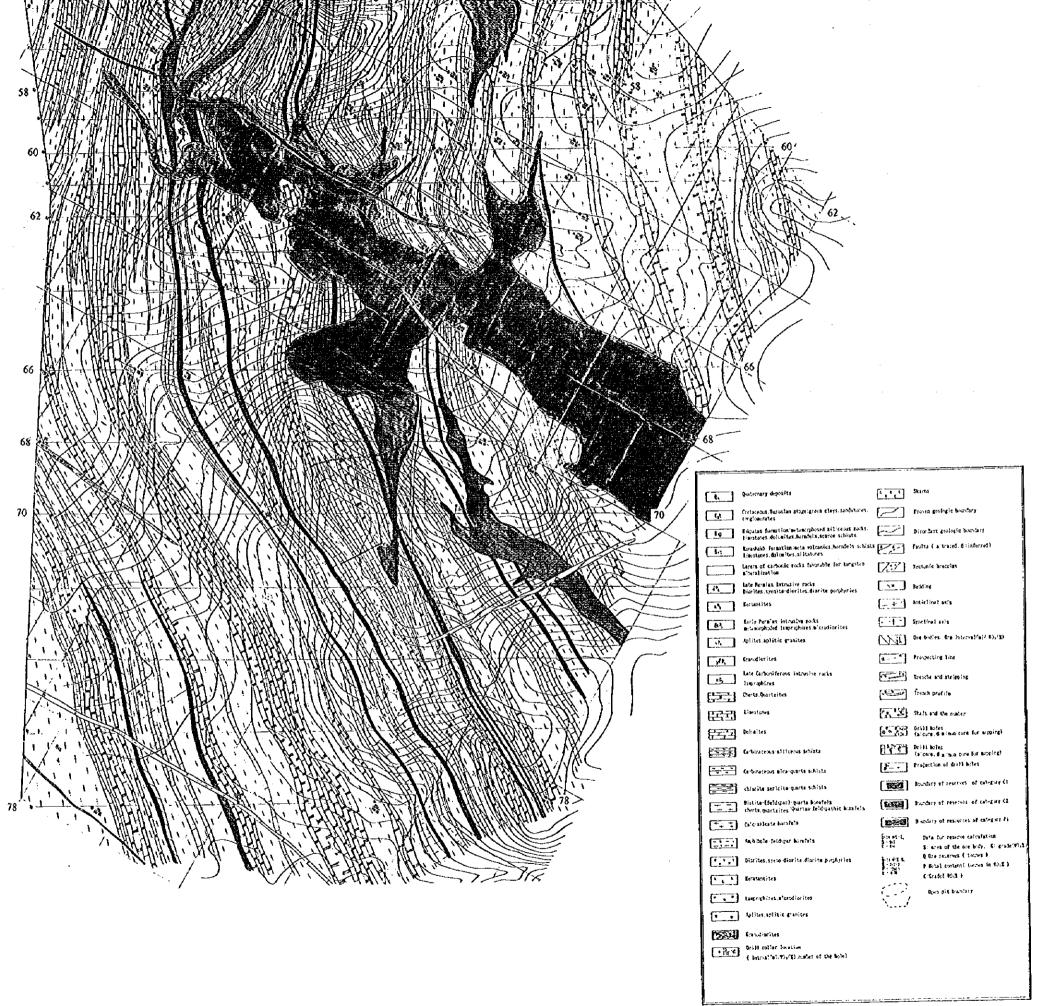
GEOLOGICAL MAP OF THE SAUTBAY ORE DEPOSITS

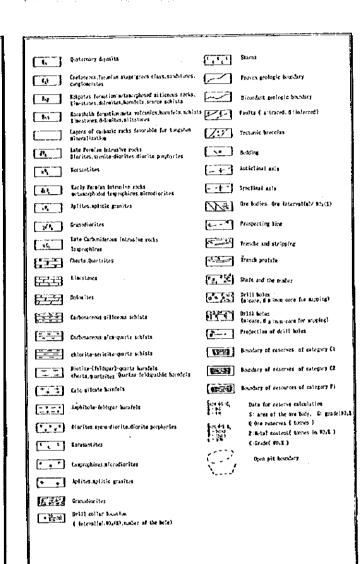




JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN FEBRUARY 1995





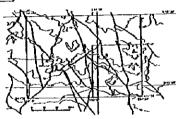


PLII-1-4(1)
THE MINERAL EXPLORATION

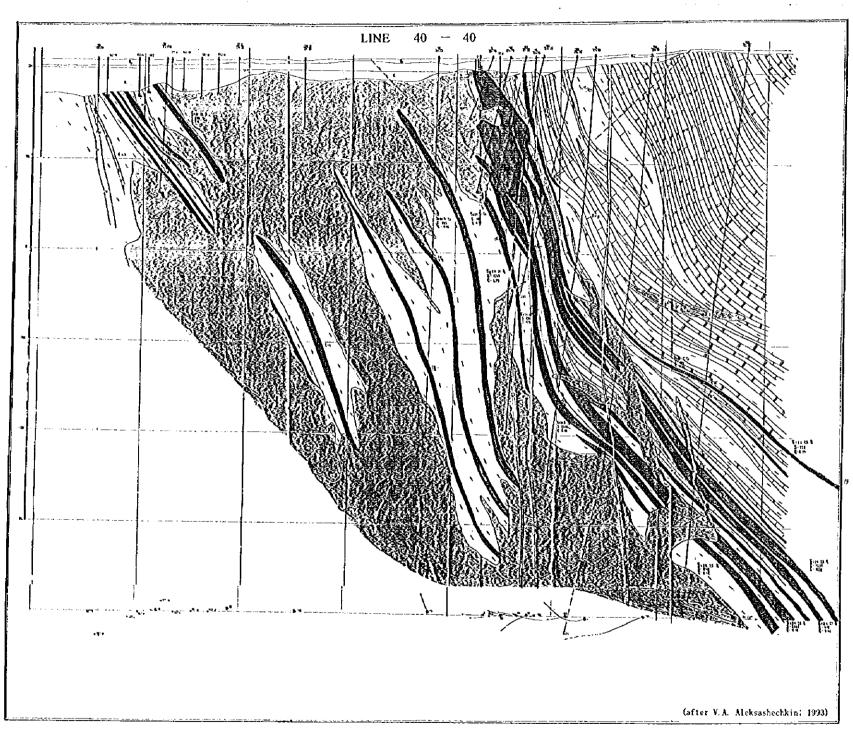
IN
THE EASTERN BUKANTAU AREA
THE REPUBLIC OF UZBEKISTAN
(PHASE 1)

GEOLOGICAL CROSS SECTION (LINE 36-36)
OF THE SAUTBAY ORE DEPOSITS





JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN FEBRUARY 1995



[[[hatemacy deposits		States
[4]	Excluded Survivial stage (proced chaps, sands trees, engineerates		Braves geologic branching
- Iş	Expetes furnation acts our physical sidilectes racks. Linestones debaites, boundels, scarce schists		Dicordent geologic branches
\$1.7	Escashabb formationins to volcanies, Normfels, schist Livestones, dobaites, siltatures	"EZE1	Faults [mitraced, 6 (inferred)
	Expers of carbonic socks forwahle for turgates allocativation	[Z:Y]	Tectonic brescias
11/2	Lata Pervisa Satrusine vocts Discrets, symbol discrites, discrite paredynies		Bolding
[1]	Ressant) tes	[_+]	Autielies) unis
43	Early Permian intrusive racks actionsphiled Lagraphires, nicrodiorites	[-1]	Specimal axis
	Aplites.aplitic gracites	$[N_2]$	Ore bodies. Gre intervating? POs(\$)
<u> </u>	Grandingites		Prospecting line
z C _k	Late Carbiniferous intrusive racks large sphires	[2]	Grenibe and stripping
	Certs.Quitzites	1.53	Erench profile
	Linestones	$[\![\underline{},\underline{}]\!]$	State and the pusher
554	Polyaites	<u>6.5 ₹5</u>	Brill beles (altere, 6 a from over for supping)
	Carboracenus sillicenus schists		Dritt hotes (m'ense, d'm'ense core for mapping)
	Carbinacious nica quarte schists		Projection of drift boles
	edibrite sericite quarte schists		Boundary of reserves of eatingury (I
	Biotite (feldgar) quarts bornfels charts,quartsites (bartse feldgarthic basolals		Boundary of reserves of category (2)
	Cate situate hornfels		Bandary of resources of category Pl
	Anabibole feldspar homiels	διαε#1-0, \$ - 9-0 6 - 9-0	Data for reserve calculation Starca of the one body. Or gradel
	Diorites, sycno-dinnite, diorite porphyries	100 F1 N	Q Ore reserves (torses) P Metal content (torses in 10.5)
1	lero contites	(+18) 	C:ScadeC NO/E }
	Limpt splitters, microdiomites	5%	Open put blandary
	hilitos, apiitio granitus	*	
* 13 at	Drill colfar Beation interatint NO(1), number of the hetal		

PI. II-1-

THE MINERAL EXPLORATION
IN
THE EASTERN BUKANTAU AREA
THE REPUBLIC OF UZBEKISTAN
(PHASE I)

GEOLOGICAL CROSS SECTION (LINE 40-40)
OF THE SAUTBAY ORE DEPOSITS





JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN FEBRUARY 1995

			
	haterucy & josius		Skares
	Eretadenas Turodian stageigreen diays.sundatones, oviginamates	[]	Proven geologic boundary
	Eduatos forestimientas géried silice es rucis. Lisestones dolumites, horafels, scarce schipts	لشسمه. بسر	Dicordant gradupic boundary
(Ja]	Reastable formation meta-valuation from felm, schist: Emestores, debuiltes, si italicies	1	Faults (attraced, 6 (inferred)
	layers of earth-sic rocks favorable for terretes mineralization	$\mathbb{Z}^{\mathcal{Y}}$	Tectuale bratefas
[0,	Late Perulan Intrustive mocks Distrites, Spenite distrites, distrite penylymies		Bedding
	Bersuntites	[_+-]	Inticlinal sals
63	Early fernian intrusive racks netssor, baded large, phires, nicrodiorites		Synctimat axis
	Aplites aplitic granites	$[D_{\overline{A}}]$	One Biddies: One Enterval(MEV MOs(\$)
	Grandfordes	E 3	Prospecting line
[15]	Late Carboniferous intrustve rocks lamprophires	[0]	Trenche and strioping
[53]	Certs.Quirtzites		Trench profits
[]	E-Mestione's		Shaft and the number
楚	Dolonites	(a) 1/2	Br(1) holes (atome, 6 a inco-core for accoing)
	Carticrate/es/siliterus schists	633	Drill hiles (#100cc.d gitnemicare for #450ing)
	Carbenaraces oles quarta schists	[<u>*</u>]	Projection of drill holes
	chlorite sericite quarta schiuts		Boundary of reserves, of cutezony Cl
	Biatite-(feldiper)-quarta bornfels chests.quartaites (factor feldipolitic bornfels	BEE Y	Boundary of réserves of category (2
[::3]	Cate-sideute berafels	15.3	Bandary of resources of category Ph
[<u>::::</u>]	Auchibale feldspar bornfels	Street,	Data for reserve refrontation 5: area of the ore body. 6: graduits.
••••	Districts, spens district district purphyries	10 (41 S)	Q:Oze reserves (tomes) Prikts) montent(traves in \$25%)
	Eurosant/ites	(1)#1 	E:G158:E 90:\$ 3
	kampoghires microdioritea	$\langle \cdot \cdot \rangle$	New pile boundary
	Aplites, apliale grunites	1	
	Granidionites		
িছিলী	Drill coller boactes { lateralfed.W0:(%), number of the hole?		

Pl. 11-1-4(3)

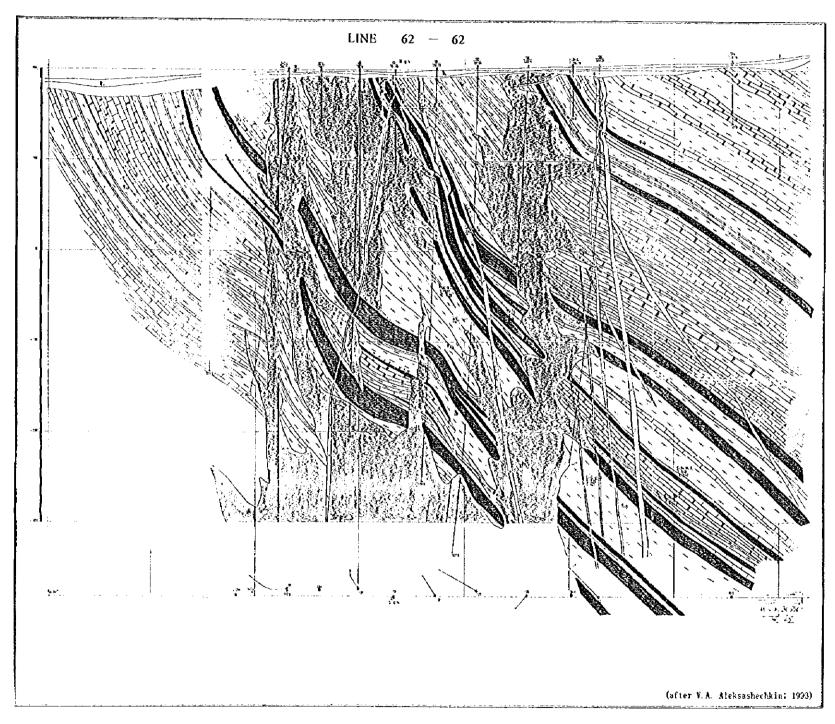
THE MINERAL EXPLORATION
IN
THE EASTERN BUKANTAU AREA
THE REPUBLIC OF UZBEKISTAN
(PHASE 1)

GEOLOGICAL CROSS SECTION (LINE 58-58)
OF THE SAUTBAY ORE DEPOSITS





JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN FEBRUARY 1995



Quaternity &posits	[c] s C Staras
Encloses Sungian Stage green clays, sandstance, confidences.	From tradegic burnters
logistas furnition's tamophised sillicetus rocks. Finestones dichartes distributs scarce schists	Name Bernate Braidlie Penerta
	Fights (a traced, 6 inferred)
Layers of carbinite socks favorable for turgated mineralization	Z:77 Tectonic brecolas
tate Persian intrustre rocks Diarctes, spenies diorites, diorite purpherles	Bobbing
Kersuntites	+- Anticlinal axis
Early Fermian intensive racks notaming Acid tamoghines necessionites	Specifical axis
49 Aplites aplitée granites	One declies. One interval(m)/ (1), (1)
3de Grandierites	g. 14 Passecting line
tate Carb afferous intrusive rocks famourhires	Frenche and stripping
theris, parizities	Trench profile
Example Linestones	Fig. 2 12 Staff and the mater
Dolonites	Prill Soles (alcose, 6 minoritum for magning)
Carbonaceous sillipenus schists	Prill table: (allower, 6 minimore for supplied)
Type Continuences stick quarte solitats	Frojection of drift holes
entocite-sericite-quarte subists	Overday of reserves of estenay (1
Bioutie-Cfeichgard-gunte bornfels cherts, guerkrites Paurten feldepathie benfels	Breiden of reserves of category (2)
Calcisifeste à miets	Boundary of resources of category \$1
Aughibele feldspar horstela	Schools Data for reserve calculation 5 - 5: 5 - 5: 5 - 5: 6 - 5: 7 - 7: 8 - 7:
Blarites, syeno-diarite, diarite porphysics	Sixture e. Gifter reserves (tornes)
The Romanistes	(*Crade (*N)T)
Lamprophites, microdiorites	Open pix bandary
Aplites,aplitho granites	Name
Grandiorites	
Fifth color function [**Tip **o**	

PL-1-4(4)

THE MINERAL EXPLORATION IN THE EASTERN BUKANTAU AREA THE REPUBLIC OF UZBEKISTAN (PHASE I)

GEOLOGICAL CROSS SECTION (LINE 62-62)
OF THE SAUTBAY ORE DEPOSITS





JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
FEBRUARY 1995