第Ⅲ部　結論及び将来への提言

第1章 結　論

1－1　サウトバイ地区

(1)　地質，鉱床

サウトバイ地区には，原生代のカラシャク層及びコクパタス層が分布している。カラシャク層は，珪岩，ドロマイト及び石灰岩を伴う火山岩起源の緑色岩類及び片岩類からなり，層厚は500m以上である。コクパタス層は，砂岩，粘板岩，珪岩，片岩及び炭酸塩岩類(石灰石，ドロマイト)からなり，層厚は，1,000m以上に達する。これらの原生界を貫いて石炭紀後期～二畳紀前期の花崗閃緑岩，アプライト，閃緑岩，ランプロファイアーなどの岩株及び岩脈が貫入している。

鉱床の主要タイプは花崗閃緑岩に規制されたタングステンを含むスカルン鉱床で，主要鉱床のサウトバイ鉱床のほかその周辺にブルグット鉱床とサゲンカン鉱床がある。

鉱石の賦存を規制している炭酸塩岩類を含む層準は，主としてカラシャク層上部からコクパタス層下部であり，垂直断面での鉱化の範囲は約500mに達している。

(2)　鉱量計算結果

第２～３年次に再収集されたサウトバイ，ブルグット及びサゲンカン鉱床のデータを使用して鉱量計算を実施し，これらの鉱床の再評価を行った。

サウトバイ及びブルグット鉱床は，カットオフ品位0.05%(WO_3)の場合，鉱量は15,195千トン，WO_3品位は0.29%，Au品位は0.23g/tである。ウズベキスタン側の計算結果(1993年)が鉱量39,539千トン，WO_3品位0.43%，Au品位0.34g/tであるのに対して鉱量，品位共に大きな差が見られる。鉱量の差は計算範囲の違いによるもので，上部のボーリング密度の高いところではほとんど差がなく，下部の密度の低いところではその差が大きくなっている。平均品位の違いは，ウズベキスタン側は予想鉱量(P1)の鉱画品位を計算する時，その鉱画と交叉するボーリングから最も品位の高いものを選んで鉱画品位としているため全体の平均品位が高くなっている。

サゲンカン鉱床は，カットオフ品位0.05%(WO_3)の場合，鉱量は10,062千トン，WO_3品位は0.24%，Au品位は0.02g/tである。ウズベキスタン側の計算結果(1994年)と比較すると，カットオフ品位0.1%(WO_3)の場合，ウズベキスタン側は鉱量12,710千トン，WO_3品位0.32%であるのに対して，今回の結果は鉱量8,133千トン，WO_3品位0.28%で，鉱量が減り，品位も低くなった。この差はサウトバイ鉱床及びブルグット鉱床の場合と同様の理由と考えられる。

1980年以降西側諸国(U.S.A.，カナダ，オーストラリア，韓国等)で稼行されたスカルン型タングステン鉱山のWO_3品位は，一般に露天掘の場合0.5%以上，坑内掘の場合1%以上のも

のがほとんどである。各鉱床のWO_3品位は西側諸国のものよりかなり低い。

(3) 鉱床開発についての考察

サウトバイ，ブルグット及びサグンカン鉱床の開発可能性を検討した。各鉱床とも品位が低く，可採粗鉱量が少ないため，単独での開発は難しい。そこで複数の鉱床を開発する採掘計画を検討した。最適操業はサウトバイ鉱床の海抜+100mから上部を露天採掘で700t/日，ブルグット鉱床を坑内採掘で800t/日の組み合わせで開発する方法である。しかし，この最適操業でも利益を得られず，約20億ソム(40,000千$)の投資をしても0.3億ソム(600千$)の回収不足が生じる。しかも，この収支計算の前提は起業投資を全額自己資金で賄い，労務費・物品費等のエスカレーションはないとし，機械の更新費用，閉山費用，諸税金も見込んでいない。このような特別な条件のもとでも利益を生み出せない。現状の品位，鉱量，建値でのサウトバイ地区のタングステン鉱床の開発は採算性から考えて難しいと判断される。

1－2 ブルトカン地区

(1) 地質，鉱床

ブルトカン地区には，原生代のコクパタス層が分布している。コクパタス層は，珪岩・チャートレンズ，石灰岩やドロマイトを伴う粘板岩及び砂岩からなり，層厚は1,000m以上である。これらを貫いて石炭紀後期～二畳紀前期の閃長閃緑岩，閃緑岩，花崗岩，ひん岩及びランプロファイアーなどの岩株及び岩脈が貫入している。

本地区における顕著な断層の方向はNW-SE～E-W系及びNNW-SSE系である。

鉱床は金を含む石英・珪化脈及びスカルン鉱体で，本地区にはブルトカン鉱床が知られている。

(2) ブルトカン鉱床の概要

ブルトカン鉱床においてウズベキスタン側独自の探鉱として実施された+210m準坑道の結果によると，ブルトカン鉱床の富鉱部はWNW-ESE系，NW-SE系，ENE-WSW系断層と炭酸塩岩類を含む層準との交会部に胚胎している。鉱体の形状は上面(地表部)の面積の広い多角錐形～パイプ状(幅20～35m，深さ約100m)を呈し，直立ないしやや北西側に急傾斜していると推定される。鉱体は，上部は酸化鉄，細粒石英脈及び玉髄を伴う珪化脈，下部は硫化鉱脈を伴うスカルン鉱体で金鉱化作用を伴っている。構成鉱物は上部の珪化脈が石英，玉髄，方解石，菱鉄鉱，針鉄鉱を主とし，磁硫鉄鉱及び石膏を伴う。下部のスカルンは角閃石－輝石スカルンで，透閃石，アクチノ閃石，緑泥石，黄鉄鉱，白鉄鉱，針鉄鉱，磁硫鉄鉱，硫砒鉄鉱及び黄銅鉱を主とし，少量の珪灰石，灰重石，緑簾石，ザクロ石を含む。ウズベキスタン側が行った鉱物研究の結果では，自然金は石英脈，方解石脈及び菱鉄鉱脈中に産し，石墨

と共生する。自然金は，まれに角閃石ー輝石スカルン中で硫化鉱物と共生するが，硫化鉱物中には確認されていない。金粒の粒形は長円形，細脈状，斑状，他形を示し，粒形は0.003mm以下～0.1mmである。

(3) トレンチ調査の結果

トレンチで確認されたAu品位1g/t以上の箇所は，T-11の80.0～82.0mのAu品位1.2g/t，T-28の36.0～37.0mのAu品位3.8g/t，T-29の52.0～64.0mのAu品位1.3g/tの３箇所のみであった。それ以外のトレンチでは，T-13及びT-18で低品位ながら比較的連続する金鉱化作用を確認した。トレンチで多数の珪化・酸化帯を確認したが，Au品位の高いものは少なかった。

(4) ボーリング調査結果

ブルトカン鉱床の西延長に対して実施したMJUB-8孔の深度18.1～19.3m(真幅0.5m，Au品位1.1g/t)，深度27.7～37.4m(真幅4.9m，Au品位4.4g/t)，MJUB-9孔の深度47.0～48.0m(真幅0.5m，Au品位8.5g/t)で金の鉱化作用が認められた。

本年次のボーリング結果でAu品位1g/t以上が確認された箇所は，上記以外ではMJUB-13孔の深度39.5～41.5m(真幅1.1m，Au品位11.9g/t)，MJUB-17孔の深度23.4～26.4m(真幅2.0m，Au品位1.3g/t)及び深度74.8～75.5m(真幅0.5m，Au品位6.0g/t)，MJUB-18孔の深度69.0～69.5m(真幅0.5m，Au品位9.8g/t)である。これらの鉱体はトレンチ調査，ボーリング調査の結果から連続性に乏しく，小規模(延長50-150m，深度100m以内)と推定される。

(5) 物理探査の結果

TEM法物理探査を実施した結果，地表下200m(海抜0m)程度までの比抵抗構造が解明された。調査地域南部の閃長閃緑岩分布域では中比抵抗から著しい高比抵抗を示す。調査地域中央部の閃長閃緑岩岩体の北縁に沿う原生界分布域に見掛上北傾斜を示す高ー著しい高比抵抗域が断続的に分布している。本区域のトレンチ及びボーリング調査で確認された主な鉱徴は，ほとんどがこの高比抵抗域内に分布する。この高比抵抗域は主として閃緑岩岩脈，珪化帯，珪岩，石英脈が密集して分布する部分及び珪化・スカルン化した交代変成岩等に対比される。この高比抵抗域の北側には低比抵抗域が広がっている。低比抵抗域の厚さは北に向って厚くなる傾向があり，本域内では層状の比抵抗分布を示す。この低比抵抗域は，石灰岩，粘板岩の分布域に相当する。水平方向の比抵抗分布は，本調査地域の卓越した断層の方向であるWNW-ESE方向とNNE-SSW方向に規制されたブロック状の分布を示す。

(6) 流体包有物充填温度測定結果

石英脈及び方解石の流体包有物の均質化温度は，100℃～360℃の範囲を示す。このうち方解石で測定した試料は102℃～167℃，石英で測定した試料は101℃～362℃を示した。スカルンからの試料は250℃～350℃の範囲をとり，金鉱化が認められた試料の流体包有物均質化温度は100℃～250℃で一般に200℃前後の値を示す。このことは，高温のスカルン化作用(均質化温度：250℃～350℃)に引き続き，より低温(均質化温度：150℃～250℃)の金鉱化作用が行われたとした第２年次調査の結果と調和的である。

ブルトカン鉱床の生成過程は，次の様に考えられる。

① 閃長閃緑岩岩株の貫入により，コクパタス層の炭酸塩岩類を含む層準に黄銅鉱－磁硫鉄鉱，黄鉄鉱－硫砒鉄鉱の共生鉱物組成を持つ角閃石－輝石スカルンが形成された。

② その後，石英脈，菱鉄鉱脈，方解石脈に伴う金銀鉱化作用が付加された。

(7) 鉱量計算(試算)の結果

トレンチ，ボーリング及びウズベキスタン側の坑道調査の結果確認された鉱石部について埋蔵鉱量試算の結果，鉱量275千ｔ，Au品位13.1g/t，金量3.6ｔと予測され，ウズベキスタン国内の金鉱床としては小規模である。

(8) 鉱床開発についての考察

ブルトカン地区は鉱量が少ないために大規模な開発はできないが，地表に近い脈幅の厚い鉱体については小規模な露天採掘が可能である。ブルトカン鉱床を含む２つの鉱画を選択して開発の可能性を検討した。起業投資は極力圧縮し，鉱石はコクパタス金山まで45ｔトラックで運搬し，コクパタスからはウチクドクのNo.3選鉱場まで鉄道運搬して処理することとした。

試算の結果，可採粗鉱量115千ｔ，可採Au品位10.0g/tの鉱石を１年間で採掘すれば，約15,000千ソム(300千$)の利益が得られる。しかし，採掘期間１年の鉱山を新たに組織することは現実的ではない。もし，開発するならばコクパタス金山が管理し運営する支山とすべきであろう。

第２章　将来への提言

1)　サウトバイ地区

サウトバイ，ブルグット及びサグンカン鉱床について鉱量計算を行った結果，サウトバイ及びブルグット鉱床はカットオフ品位0.05%(WO_3)の場合，鉱量15,195千トン，WO_3の平均品位は0.29%，Auの平均品位は0.23g/tである。サグンカン鉱床は，カットオフ品位0.05%(WO_3)の場合，鉱量10,062千トン，WO_3の平均品位は0.24%，Auの平均品位0.02g/tである。

鉱量計算結果に基づき同地区の鉱床の開発の可能性を検討した結果，現状の鉱量・品位・建値では，最も有利な条件のもとで採掘計画を立てても損失を生じるため，現状では本地区での鉱山開発は難しいと判断される。今後探鉱を継続すれば鉱量増は期待できるがWO_3品位の著しい好転は期待できない。

したがって，本地区での探鉱は中止し，将来のタングステン資源の供給源として保留しておくことが望ましい。

2)　ブルトカン地区

本地区の金鉱床は，閃長閃緑岩岩株の北縁に近接する原生界中に走向延長1,200m以上にわたって点在する。

本年次に実施した鉱量計算試算では8鉱画で埋蔵鉱量275千ｔ，Au品位13.1g/t，Ag品位6.5g/tと予測された。このうちブルトカン鉱床を含む２つの鉱画を選択して露天採掘することとし，鉱床の開発の可能性を検討した。可採粗鉱量115千ｔ，可採Au品位10.0g/tの鉱石を１年間で採掘すれば粗鉱トン当たり125ソム(2.5$)の利益が得られる試算が得られたので将来の対応を検討すべきである。

第２年次のトレンチ調査及び物理探査で探鉱されたトレンチT-6の東方の地域にも閃長閃緑岩岩株の北側にブルトカン鉱床と同程度の小規模な鉱床を捕捉できる可能性があるので，当該地域での鉱化状況を確認するためのトレンチ調査，物理探査，ボーリング調査を実施することが望ましい。本地区の鉱体の富鉱部は，WNW-ESE系断層とこれに交差する裂罅群と炭酸塩岩類を含む層準との交会部に胚胎するので探鉱の成果を上げるためには，炭酸塩岩類の層準の構造とこれに交会する断層構造を詳細に検討することが望ましい。

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巻末資料

Appendix 1 Geologic Core Logs of the Drillings

LEGEND


Quarternary Deposits


Lamprophyres


Granites, Granodiorites


Porphyrites


Syenodiorites


Diorites


Aplites


Slates


Sandstones


Limestones


Dolomites


Quartzites


dip(bedding plane)


dip(intrusive rock)


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


Fractured zone


Silicified rock

S S Skarnized rock

△ △ Brecciated rock


Hornfels

·Abbreviations

alt	: altered	lmp	: lamprophyre
act	: actinolite	limo	: limonite
asp	: arsenopyrite	ls	: limestone
blk	: black	ma	: marcasite
cal	: calcite	mo	: molybdenite
ch	: chert	po	: porphyrite
chl	: chlorite	phyro	: phrrhotite
cp	: chalcopyrite	py	: pyrite
crs	: coarse	qz	: quartz
dk	: dark	rhodo	: rhodonite
diop	: diopside	side	: siderite
dol	: dolomite	sl	: slate
dt	: diorite	ss	: sandstone
ep	: epidote	wo	: wollastonite
fn	: fine	w	: widith
frac	: fractured		
gyp	: gypsum		

·Sample for Assay and Laboratory Test

A. Sample for assay
B-801:Ore sample(Bulutkan district)

B. Sample for laboratory test
B-8L2:Geological test
(1)T···Thin section
(2)P···Polished section
(3)X···X-Ray diffraciotnalysis
(4)F···Fluid inclusion test

GEOLOGIC CORE LOG OF MJUB-8 (1/2)

1/200

Level 231.57 m Direction S25°W
X 68,678.96 m Inclination -80°
Y 92,126.40 m Length 100.0m

MJUB-8 (1/2) 0 m ~ 50 m

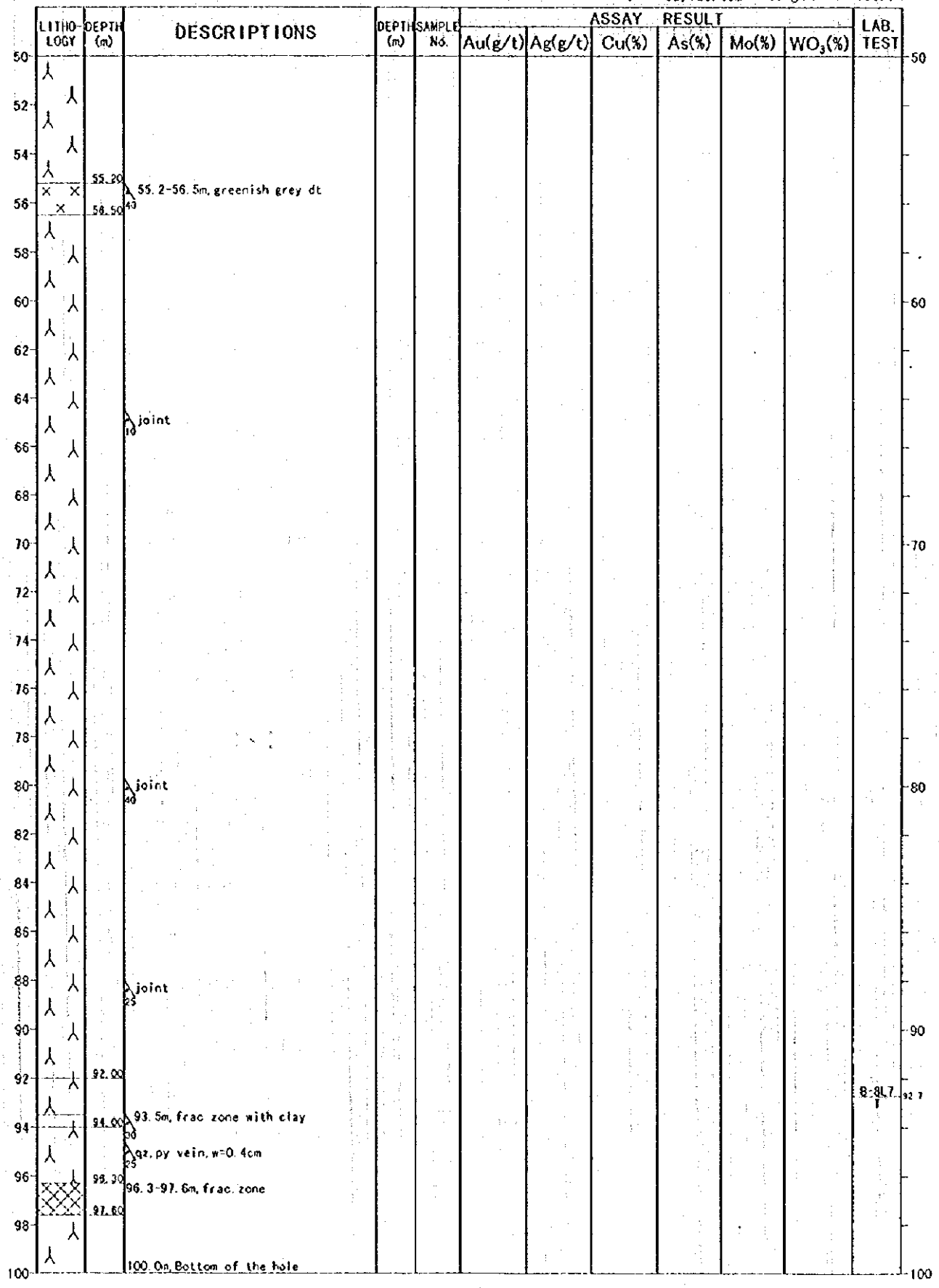
LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		0-4.0m, sand with pebbles									
	4.00										
	4.90	4.0-7.0m, strongly weathered brownish grey lmp with limo	4.9								
		4.0-4.9m, frac. zone		B-801	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	7.00		7.0								
		7.0-9.0m, storngly weatherd silici. rock with cal v. & limo		B-802	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	9.00		9.0								
		9.0-14.2m, strongly weathered silici. rock(ss?) with qz veinlets and limo		B-803	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			11.0								
				B-804	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			12.5								
				B-805	< 0.1	< 1	< 0.01	0.01	< 0.01	< 0.01	
	14.20		14.2								
		14.2-19.3m, grey-brownish grey silici & metaso. with py & limo	15.0	B-806	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
				B-807	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		68	16.0	B-808	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		16.7-17.5m, frac zone	17.0	B-809	0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
		18.1-18.8m, frac zone	18.1	B-8010	1.1	1.8	0.03	< 0.01	< 0.01	< 0.01	
	19.30		19.3								
	20.10	19.3-20.1m, green skarn with abundant py		B-8011	< 0.1	< 1	0.11	0.08	< 0.01	< 0.01	
	20.30	20.1-20.3m, py vein	20.3	B-8012	< 0.1	< 1	0.06	< 0.01	< 0.01	< 0.01	
		20.3-34.6m, grey silici. and skarnized metaso. with py & limo	21.5	B-8013	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
	22.60		22.6								
		22.6-23.4m, py vein	23.4	B-8014	0.1	< 1	0.38	< 0.01	< 0.01	< 0.01	
	23.40										
		23.4-24.5m, grey silici. & skarnized metaso. with py		B-8015	< 0.1	< 1	0.11	< 0.01	< 0.01	< 0.01	B-8L2 X, P
	24.50	15	24.7								
		24.5-24.7m, py, ma vein		B-8016	< 0.1	< 1	0.03	< 0.01	0.01	< 0.01	
		30	26.1								
	26.10	35									
	26.90	26.1-26.9m, py vein		B-8017	< 0.1	< 1	0.12	< 0.01	< 0.01	< 0.01	
	27.10		27.7								
		27.3-27.7m, py vein		B-8018	12	11.4	0.14	< 0.01	< 0.01	0.05	B-8L3 P
			29.0	B-8019	4	3.2	0.1	0.02	< 0.01	< 0.01	
			30.0	B-8020	< 0.1	< 1	0.05	< 0.01	0.01	< 0.01	
			31.0	B-8021	0.2	< 1	0.09	< 0.01	< 0.01	< 0.01	
	32.10		32.1								
	32.50	32.1-32.5m, qz vein		B-8022	0.6	2.2	0.03	< 0.01	< 0.01	< 0.01	B-8L4 F
		70	33.5								
				B-8023	0.3	< 1	0.03	< 0.01	0.01	< 0.01	B-8L5 T
	34.60		34.6								
		34.6-36.4m, skarn with py, ma		B-8024	1.1	1.4	0.1	< 0.01	< 0.01	< 0.01	
			35.5	B-8025	6.4	6.8	0.15	< 0.01	< 0.01	< 0.01	
	36.40		36.4	B-8026	2.8	1.6	0.02	< 0.01	< 0.01	< 0.01	
		36.4-37.4m, greenish grey skarnized dt. with py, ma	37.4								
	37.40										
		37.4-100.0m, pinkish grey syeno-dt									
		38.4m, qz, py, ma vein w=0.3cm									
		35									
		joint									
		40									
	46.80										
	47.10	46.8-47.1m, qz vein									

GEOLOGIC CORE LOG OF MJUB-8 (2/2)

1/200

MJUB-8 (2/2) 50 m ~ 100 m

Level 231.57 m Direction S25°W
X 68,678.96m Inclination -80°
Y 92,126.40m Length 100.0m



GEOLOGIC CORE LOG OF MJUB-9 (1/2)

1/200

MJUB-9 (1/2) 0 m ~ 50 m

Level 234.24 m Direction S25°W
X 68,710.24 m Inclination -80°
Y 92,137.70 m Length 100.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
	0.6	0-0.6m, sand with pebbles									
	1.8	0.6-1.8m reddish brown silici. rock with qz v. and py(float)									
		1.8-4.5m, brownish grey sand with pebbles									
	4.5	4.5-7.8m, qz vein	4.5	B-901	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
			5.5	B-902	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
			6.5	B-903	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	7.8	7.8-8.8m, brecciated qz v with limo	7.8	B-904	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
	8.8		8.8	B-905	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	B-9L2 F
	9.1	9.1-9.9m, brecciated qz v with limo	9.9	B-906	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	9.9	9.9-10.3m, greenish grey silici. & skarnized metaso.	10.6	B-907	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	10.6	10.3-10.6m, brecciated qz v. with limo	12.1	B-908	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		10.6-12.1m, frac. zone with clay	14.0	B-909	< 0.1	< 1	< 0.01	0.1	< 0.01	< 0.01	
	12.1	12.1-18.8m, greenish grey silici. & skarnized metaso. with qz limo	14.8	B-9010	0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
	14.0	14.0-14.8m, brown skarn with cal, limo	15.8	B-9011	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	14.8		16.8	B-9012	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		15.8-16.0m, syeno-dt 65	17.6	B-9013	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	16.8		18.8	B-9014	0.2	1.4	< 0.01	< 0.01	< 0.01	< 0.01	
	17.2	16.8-17.2m, cal vein	20.0	B-9015	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		17.4-17.6m, cal vein	21.0	B-9016	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	18.8	18.8-21.0m, qz v. with limo	22.0	B-9017	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-9L3 X
	21.0	21.0-22.0m, brownish grey silici. and skarnized metaso. with py, limo 65	23.2	B-9018	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	22.0	22.0-23.2m, skarn(wo, act)	24.2	B-9019	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	23.2		25.3	B-9020	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
	23.7	23.2-25.3m, greenish grey silici. & skarnized metaso with cal, qz	26.3	B-9021	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
	24.2	23.7-24.2m, skarn(wo-diop)	27.3	B-9022	< 0.1	< 1	< 0.01	0.02	< 0.01	< 0.01	
	25.3	25.3-28.2m, skarnized ls with wo, diop	28.2	B-9023	< 0.1	< 1	0.02	0.14	< 0.01	0.01	B-9L4 T, X, P
	28.2	28.2-29.4m, green skarn with py, ma	29.4	B-9024	< 0.1	< 1	< 0.01	0.04	< 0.01	< 0.01	
	29.4	29.4-30.7m, silici. and skarnized metaso 45	30.7								
	30.7	30.7-31.8m, dk grey dt 40									
		31.8-39.8m, pinkish grey crs syeno-dt									
		35.6m, joint with limo 10									
		38.5m, chl, py, ma v, w=0.5-0.8cm									
	39.8	39.8-41.2m, silici. & skarnized metaso	39.8	B-9025	< 0.1	< 1	< 0.01	< 0.01	0.01	0.02	
	41.2	41.2-42.2m, dk grey skarnized dt with py 30	41.2	B-9026	0.5	< 1	0.01	0.02	< 0.01	0.01	
	42.2	42.2-46.5m, silici. & skarnized metaso. (ss>>sl)	42.3	B-9027	< 0.1	< 1	0.03	0.13	< 0.01	< 0.01	
			44.0	B-9028	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	46.5	46.5-47.0m, whitish grey silici. metaso	45.5	B-9029	< 0.1	< 1	< 0.01	0.02	< 0.01	< 0.01	
	47.0	47.0-48.0m, qz, py, ma, cp vein 60	47.0	B-9030	8.5	7.8	0.38	1.7	< 0.01	0.01	B-9L5 P, X
	48.0	48.3-69.0m, pinkish grey syeno-dt 65	48.0								

GEOLOGIC CORE LOG OF MJUB-9 (2/2)

1/200

MJUB-9 (2/2) 50 m ~ 100 m

Level 234.24 m Direction S 25°W
X 68,710.24m Inclination -60°
Y 92,137.70m Length 100.0m

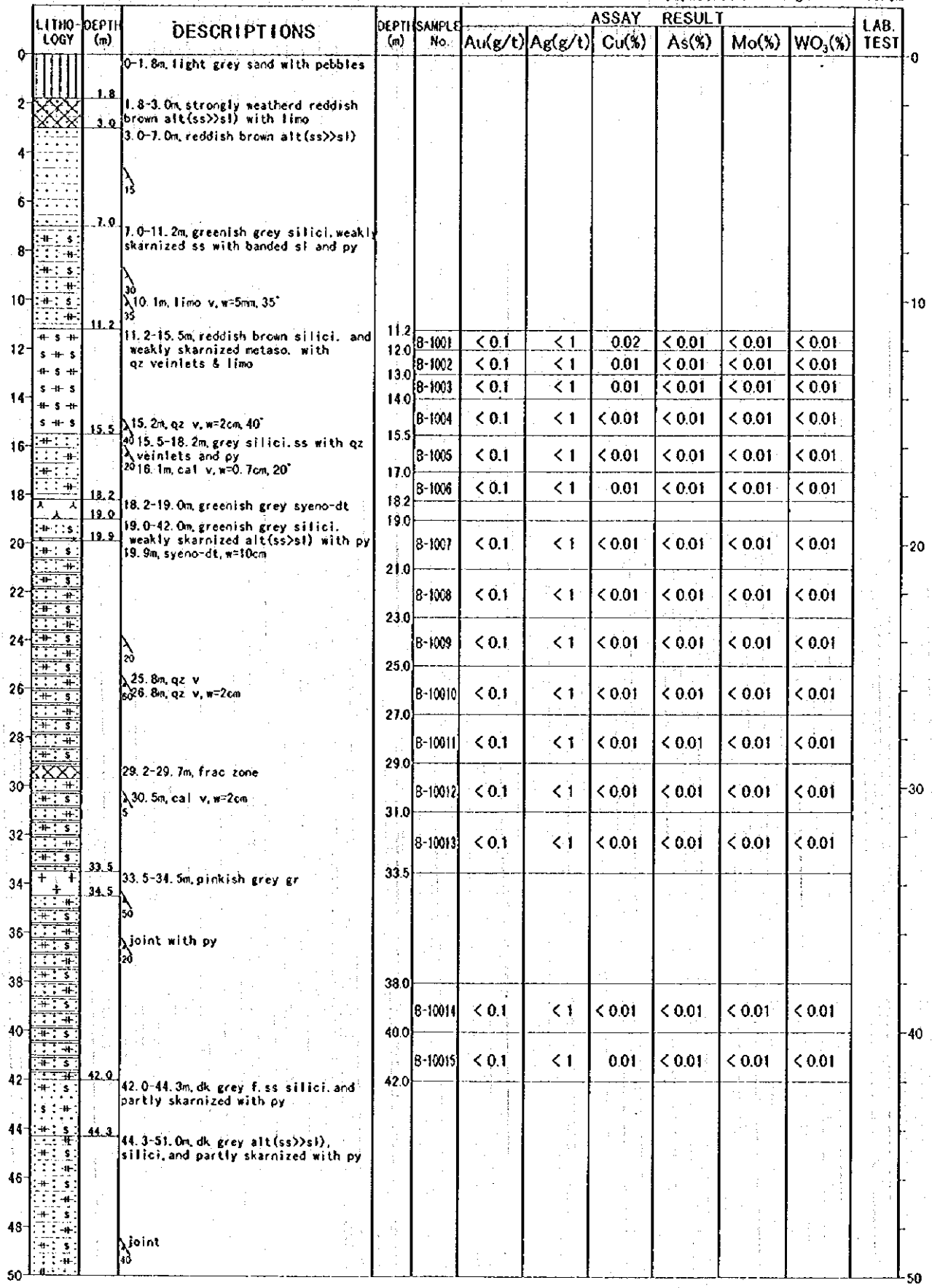
LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		syeno-dt									
		joint 30									
	69.0	69.0-70.3m, grey dt with py									
	70.3										
	85.0	85.0-86.0m, frac zone									
	86.0	85.3m, calv, w=1cm, 10°									
	87.0										
	87.6	87.0-87.6m, frac zone									
	88.2										
	88.6	88.2-88.8m, frac zone 30									
		98.2m, joint with py									
		99.0-100.0m, frac zone									
	99.0	5 joint with py, 15°									
	100.0	15 100.0m, Bottom of the hole									

GEOLOGIC CORE LOG OF MJUB-10 (1/3)

1/200

MJUB-10 (1/3) 0 m ~ 50 m

Level 239.16 m Direction S25°W
X 68,597.50m Inclination -80°
Y 92,236.75m Length 110.0m



DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
11.2								
12.0	B-1001	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
	B-1002	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
13.0	B-1003	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
14.0	B-1004	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
15.5	B-1005	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
17.0	B-1006	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
18.2								
19.0	B-1007	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
21.0	B-1008	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
23.0	B-1009	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
25.0	B-10010	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
27.0	B-10011	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
29.0	B-10012	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
31.0	B-10013	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
33.5								
38.0	B-10014	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
40.0	B-10015	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
42.0								

GEOLOGIC CORE LOG OF MJUB-10(2/3)

1/200

MJUB-10 (2/3) 50 m ~ 100 m

Level 239.16 m Direction S25°W
X 68,594.50m Inclination -80°
Y 92,236.75m Length 110.0m

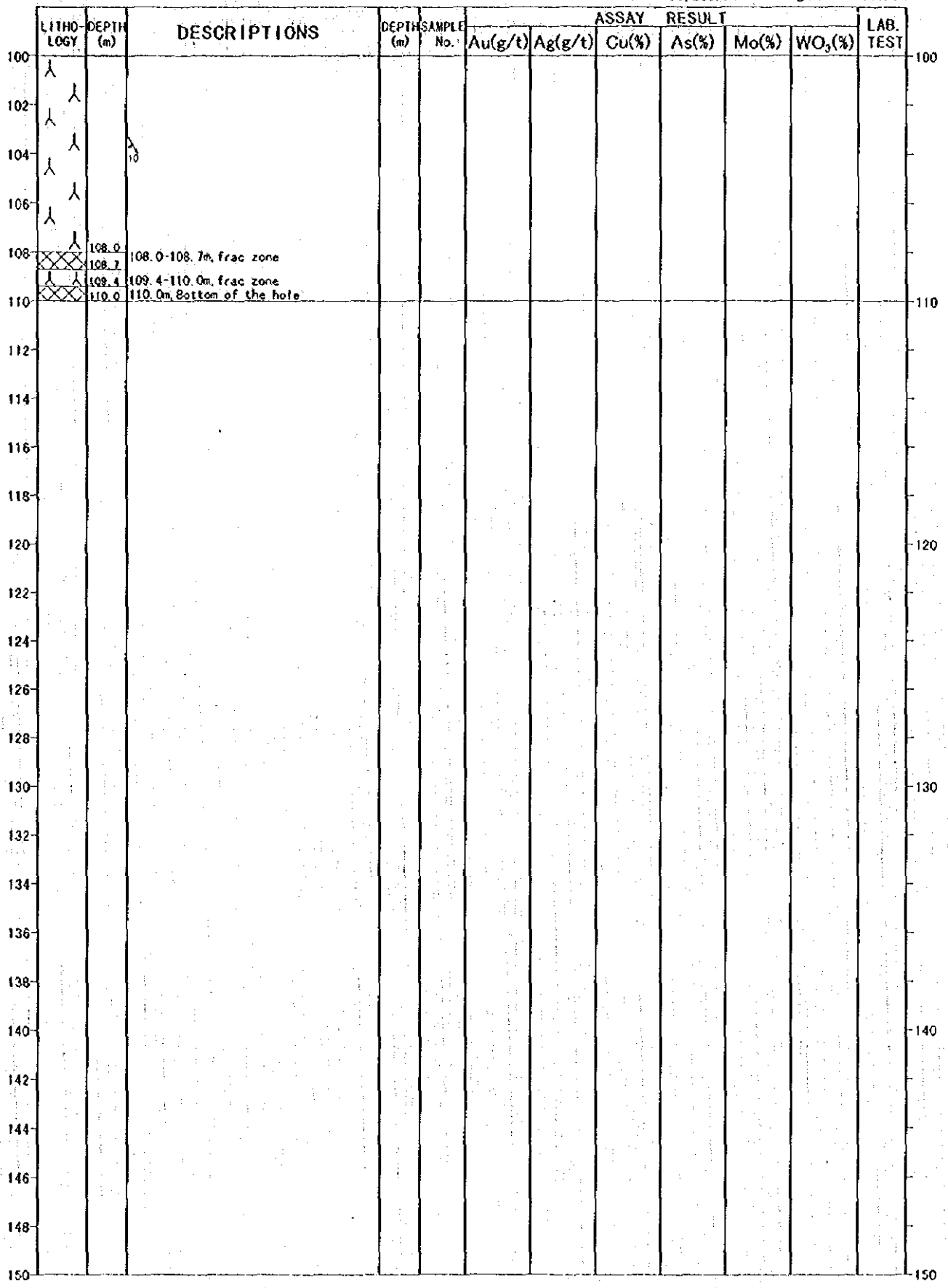
LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
	51.0	50.3m, qz v, w=3cm	50.0	B-10016	< 0.1	< 1	0.01	< 0.01	< 0.01	0.01	
		51.0-52.2m, dk grey dt	51.0								
	52.2	52.0m, qz v, w=0.5cm		B-10017	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
		52.2-54.9m, silici. alt(ss>>sl)	52.0	B-10018	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-10L1 F
			53.0	B-10019	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	54.9	54.9-55.5m, pinkish grey syeno-dt	53.7								
	55.5	55.5-55.9m, dk grey silici. ss									
	55.9	55.9-56.2m, pinkish grey syeno-dt									
	58.2	56.2-59.7m, weakly skaenized dt									B-10L2 T
	59.7	59.7-61.7m, dk grey silici. & weakly skarnized alt(ss>>sl) with py									
	61.7	61.7-62.7m, grey dt									
	62.7	62.7-66.5m, grey silici. & skarnized ss with py, rhodo	62.7	B-10020	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		63.5-63.9m, yellowish green skarn	63.9	B-10021	< 0.1	< 1	< 0.01	< 0.01	< 0.01	0.01	
		65.0-65.4m, yellowish green skarn	65.0	B-10022	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
	66.5	66.5-67.2m, yellowish green skarn	66.0	B-10023	< 0.1	< 1	0.01	< 0.01	< 0.01	0.01	B-10L3 X
	67.2	67.2-73.0m, grey silici ss with py	67.2	B-10024	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
	69.3	68.3-69.4m, grey dt	69.4								
	69.8	69.4-69.8m, dk grey dt									
	70.9	70.9-71.4m, dk grey dt	71.4								
	73.0			B-10025	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
	73.5	73.0-73.5m, greenish white ls with wo py, cp	73.0	B-10026	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-10L5 X
	74.5	73.5-81.0m, dk grey silici. & skarnized ss wtih py	74.5								
	75.2	74.5-75.2m, pinkish grey syeno-dt									
	76.2	76.2-76.5m, dk grey dt									
	81.0	81.0-84.6m, dk grey dt	77.7	B-10027	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		81.4-81.47m, grey-dt dike	78.7								
		81.8-82.1m, grey-dt dike									
	84.6	84.6-110.0m, pinkish grey syeno-dt									
		qz v, w=1cm									
		joint									
		97.5m, cal v, w=0.3cm									

GEOLOGIC CORE LOG OF MJUB-10 (3/3)

1/200

MJUB-10 (3/3) 100 m ~ 110 m

Level 239.16 m Direction S25°W
X 68,594.50m Inclination -80°
Y 92,236.75m Length 110.0m

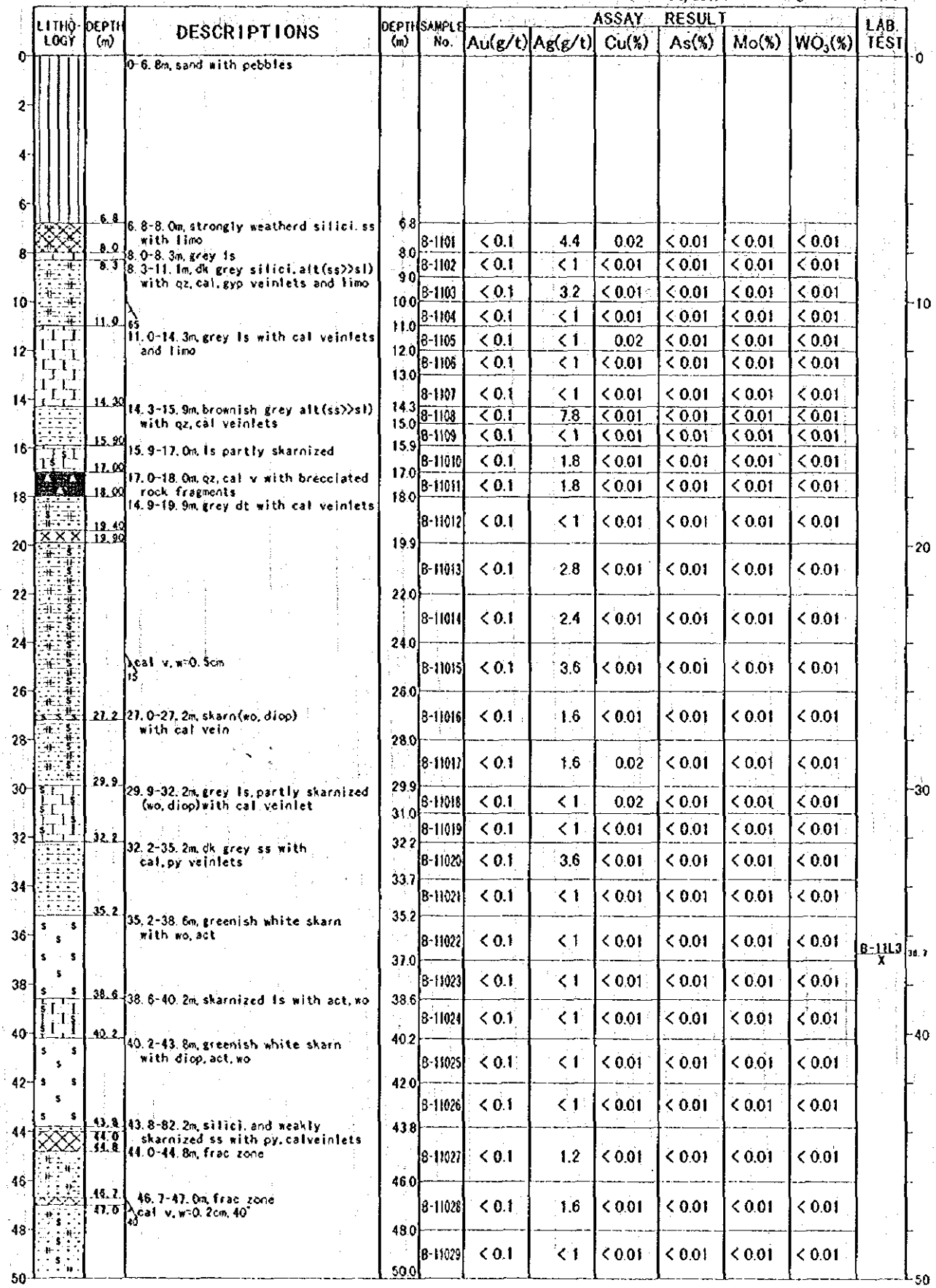


GEOLOGIC CORE LOG OF MJUB-11 (1/4)

1/200

MJUB-11 (1/4) 0 m ~ 50 m

Level 239.16 m Direction S25°W
X 68,627.66m Inclination -80°
Y 92,236.75m Length 152.0m



DEPTH (m)	DESCRIPTIONS
0	0-6.8m, sand with pebbles
6.8	6.8-8.0m, strongly weatherd silici. ss with limo
8.0	8.0-8.3m, grey ls
8.3	8.3-11.1m, dk grey silici. alt(ss)>sl) with qz, cal, gyp veinlets and limo
11.0	11.0-14.3m, grey ls with cal veinlets and limo
14.30	14.3-15.9m, brownish grey alt(ss)>sl) with qz, cal veinlets
15.90	15.9-17.0m, ls partly skarnized
17.00	17.0-18.0m, qz, cal v with brecciated rock fragments
18.00	14.9-19.9m, grey dt with cal veinlets
19.40	
19.90	
	cal v, w=0.5cm, 15°
27.2	27.0-27.2m, skarn(wo, diop) with cal vein
29.9	29.9-32.2m, grey ls, partly skarnized (wo, diop) with cal veinlet
32.2	32.2-35.2m, dk grey ss with cal, py veinlets
35.2	35.2-38.6m, greenish white skarn with wo, act
38.6	38.6-40.2m, skarnized ls with act, wo
40.2	40.2-43.8m, greenish white skarn with diop, act, wo
43.8	43.8-82.2m, silici. and weakly skarnized ss with py, calveinlets
44.0	44.0-44.8m, frac zone
44.8	
46.7	46.7-47.0m, frac zone
47.0	cal v, w=0.2cm, 40°

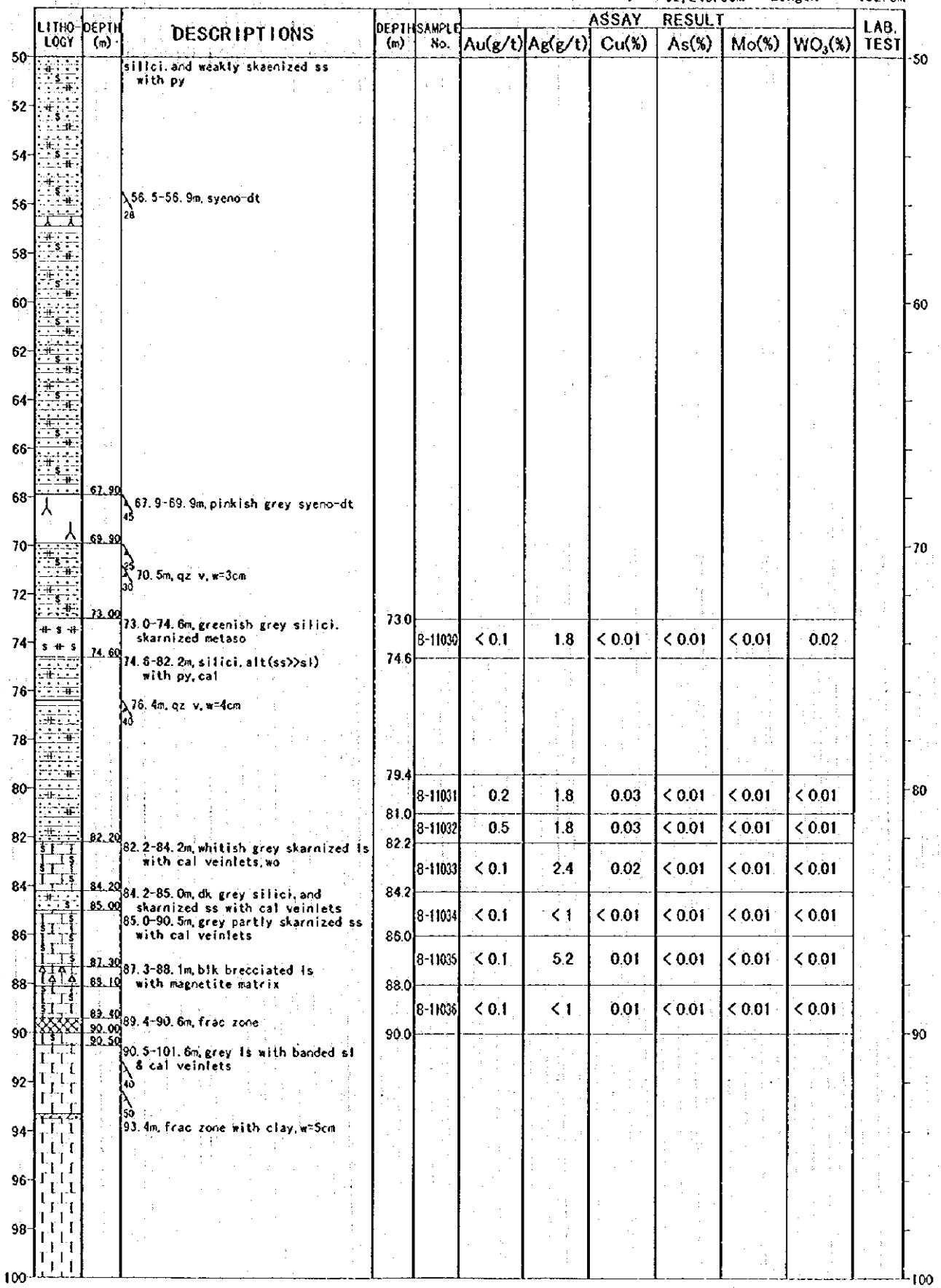
DEPTH (m)	SAMPLE No.	Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
6.8	B-11101	< 0.1	4.4	0.02	< 0.01	< 0.01	< 0.01	
8.0	B-11102	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
9.0	B-11103	< 0.1	3.2	< 0.01	< 0.01	< 0.01	< 0.01	
10.0	B-11104	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
11.0	B-11105	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
12.0	B-11106	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
13.0	B-11107	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
14.3	B-11108	< 0.1	7.8	< 0.01	< 0.01	< 0.01	< 0.01	
15.0	B-11109	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
15.9	B-11010	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
17.0	B-11011	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
18.0	B-11012	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
19.9	B-11013	< 0.1	2.8	< 0.01	< 0.01	< 0.01	< 0.01	
22.0	B-11014	< 0.1	2.4	< 0.01	< 0.01	< 0.01	< 0.01	
24.0	B-11015	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
26.0	B-11016	< 0.1	1.6	< 0.01	< 0.01	< 0.01	< 0.01	
28.0	B-11017	< 0.1	1.6	0.02	< 0.01	< 0.01	< 0.01	
29.9	B-11018	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
31.0	B-11019	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
32.2	B-11020	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
33.7	B-11021	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
35.2	B-11022	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-11L3 X 38.7
37.0	B-11023	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
38.6	B-11024	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
40.2	B-11025	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
42.0	B-11026	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
43.8	B-11027	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
46.0	B-11028	< 0.1	1.6	< 0.01	< 0.01	< 0.01	< 0.01	
48.0	B-11029	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
50.0								

GEOLOGIC CORE LOG OF MJUB-11 (2/4)

1/200

MJUB-11 (2/4) 50 m ~ 100 m

Level 240.93 m Direction S25°W
X 68,627.66m Inclination -80°
Y 92,248.90m Length 152.0m



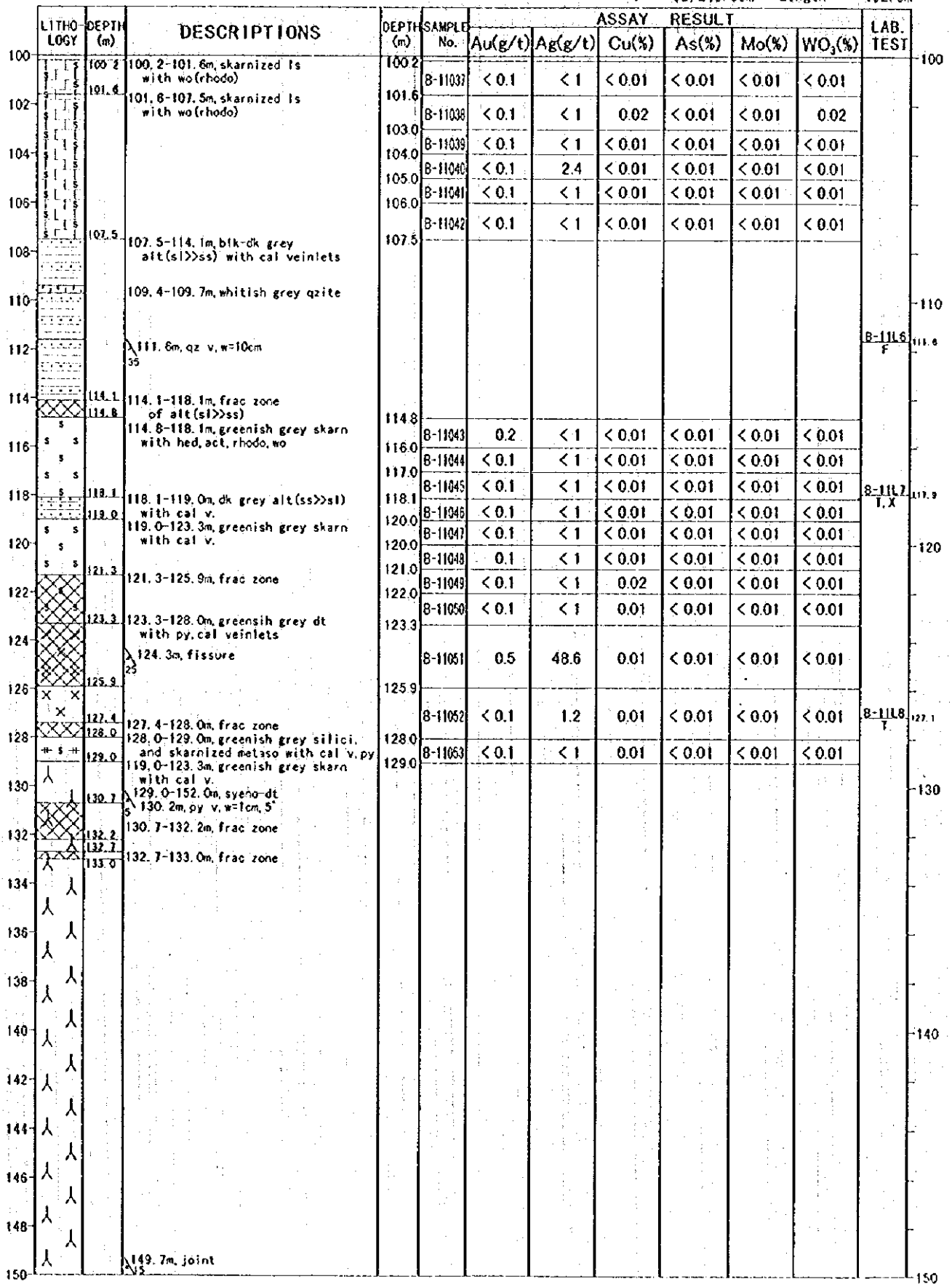
DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
73.0								
	8-11030	< 0.1	1.8	< 0.01	< 0.01	< 0.01	0.02	
74.6								
79.4								
	8-11031	0.2	1.8	0.03	< 0.01	< 0.01	< 0.01	
81.0								
	8-11032	0.5	1.8	0.03	< 0.01	< 0.01	< 0.01	
82.2								
	8-11033	< 0.1	2.4	0.02	< 0.01	< 0.01	< 0.01	
84.2								
	8-11034	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
86.0								
	8-11035	< 0.1	5.2	0.01	< 0.01	< 0.01	< 0.01	
88.0								
	8-11036	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
90.0								

GEOLOGIC CORE LOG OF MJUB-11 (3/4)

1/200

MJUB-11 (3/4) 100 m ~ 150 m

Level 240.93 m Direction S25°W
X 68,627.66m Inclination -80°
Y 92,248.90m Length 152.0m



DEPTH (m)	SAMPLE No.	Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
100.2								
	B-11037	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
101.6								
	B-11038	< 0.1	< 1	0.02	< 0.01	< 0.01	0.02	
103.0								
	B-11039	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
104.0								
	B-11040	< 0.1	2.4	< 0.01	< 0.01	< 0.01	< 0.01	
105.0								
	B-11041	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
106.0								
	B-11042	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
107.5								
114.8								
	B-11043	0.2	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
116.0								
	B-11044	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
117.0								
	B-11045	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-11L7 T, X
118.1								
	B-11046	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
120.0								
	B-11047	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
120.0								
	B-11048	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
121.0								
	B-11049	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
122.0								
	B-11050	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
123.3								
	B-11051	0.5	48.6	0.01	< 0.01	< 0.01	< 0.01	
125.9								
	B-11052	< 0.1	1.2	0.01	< 0.01	< 0.01	< 0.01	B-11L8 T
128.0								
	B-11053	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
129.0								

GEOLOGIC CORE LOG OF MJUB-11 (4/4)

1/200

Level 240.93 m Direction S25°W
X 68,627.66m Inclination -80°
Y 92,248.90m Length 152.0m

MJUB-11 (4/4) 150 m ~ 152 m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		syeno-dt									
	152.0	152.0m, Bottom of the hole									

GEOLOGIC CORE LOG OF MJUB-12 (1/4)

1/200

MJUB-12 (1/4) 0 m ~ 50 m

Level 243.38 m Direction S25°W
X 68,656.51 m Inclination -80°
Y 92,261.07m Length 194.0m

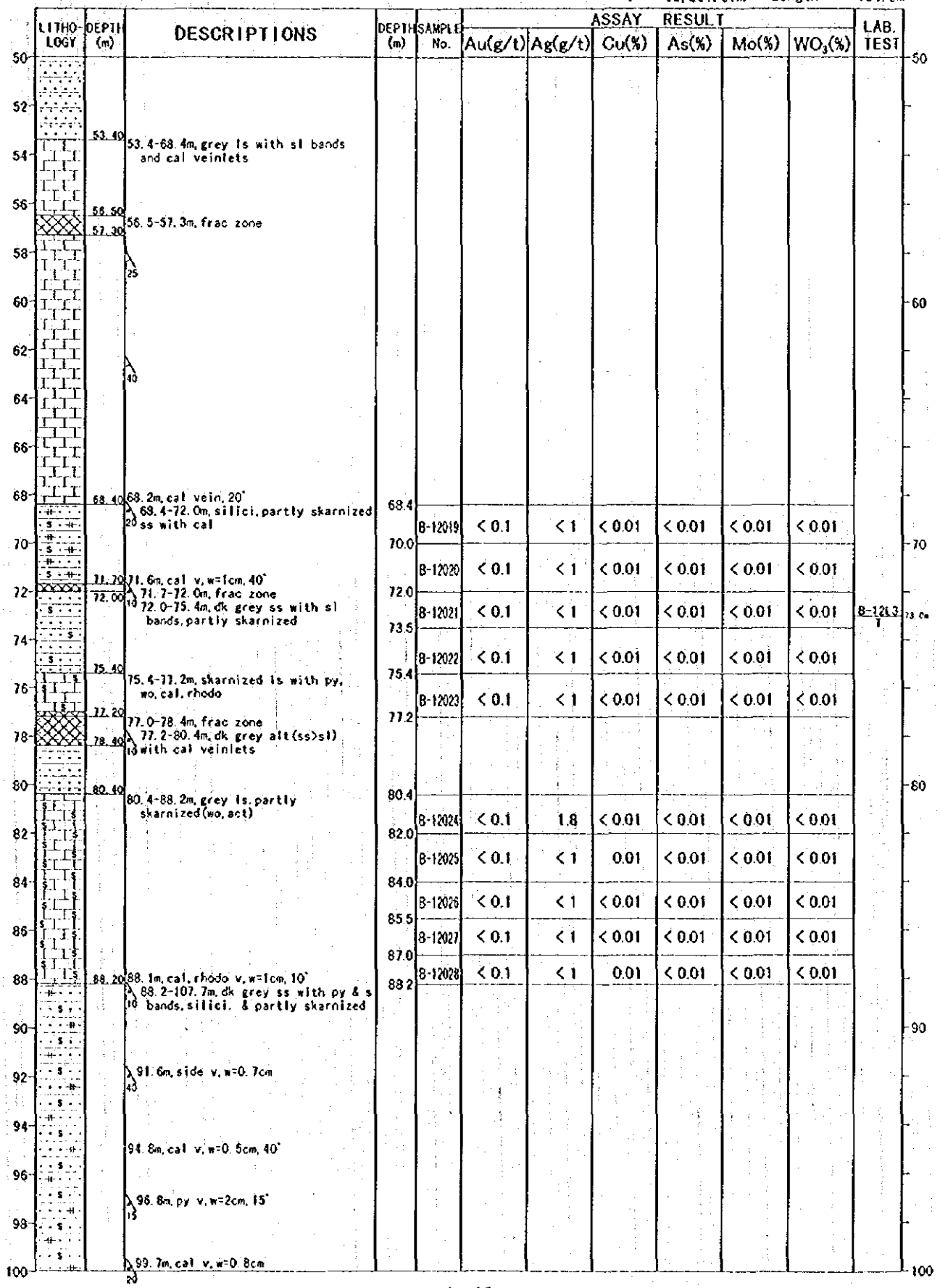
LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
	3.00	0-3.0m, sand with pebbles	3.0								
		3.0-5.0m, brownish grey skarnized weathered skarn with cal v, limo	4.0	B-1201	0.1	< 1	0.02	0.01	< 0.01	0.01	
	5.00	5.0-8.0m, pinkish grey skarnized ss with cal, rhodo, limo	5.0	B-1202	< 0.1	14.8	0.02	0.02	< 0.01	< 0.01	
		5.8m, cal v, w=2cm, 45°	6.0	B-1203	< 0.1	4.8	0.02	0.03	< 0.01	< 0.01	
	8.00			B-1204	< 0.1	5.2	< 0.01	0.03	< 0.01	< 0.01	
	9.00	8.0-9.0m, qz v. with cal, wo 8.6-9.0m, frac zone	8.0 9.0	B-1205	< 0.1	3.2	< 0.01	0.04	< 0.01	< 0.01	B-12L1 F
	10.00	9.0-13.8m, brownish grey silici. and skarnized metaso. with cal, limo 10.0-12.8m, frac zone		B-1206	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
	12.80		11.0	B-1207	0.8	10.4	0.07	0.02	< 0.01	< 0.01	
	13.80	13.8-14.0m, qz v. 30°	12.8	B-1208	0.2	< 1	< 0.01	0.03	< 0.01	< 0.01	
	14.00 15.00	14.0-18.0m, grey ls weakly skarnized with cal veinlets 15.0-17.0m, frac zone	14.0	B-1209	< 0.1	12	< 0.01	0.03	< 0.01	< 0.01	
	16.00	16.0m, cal v, w=3cm, 5°	16.0	B-12010	< 0.1	< 1	< 0.01	0.03	< 0.01	< 0.01	
	18.00	18.0-21.3m, dk grey alt(ss>>st), silici. partly skarnized	18.0	B-12011	< 0.1	< 1	0.02	0.05	< 0.01	0.01	
			19.5	B-12012	< 0.1	< 1	< 0.01	0.03	< 0.01	< 0.01	
	21.30		21.3								
	23.00	21.3-23.0m, whitish grey ls, skarnized with cal, wo 23.0-25.4m, grey ss silici. and partly skarnized	23.0	B-12013	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-12L2 X
	25.40			B-12014	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		25.4-28.7m, grey ls partly skarnized with cal, limo	25.4	B-12015	< 0.1	8.2	< 0.01	< 0.01	< 0.01	< 0.01	
			27.0	B-12016	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	28.20	28.7-33.0m, grey ss with sl bands, py 28.7-30.2m, frac zone	28.7								
	30.20	30.2-31.0m, syeno-dt									
	31.00	33.0-35.0m, greenish grey strongly silici. & skarnized metaso with cal v 34.5m, cal v, w=2cm, 30°									
	33.00	35.4-53.4m, grey ss with cal veinlets, py	33.0	B-12017	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			34.0	B-12018	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	35.00		35.0								
		35.7m, cal v, w=5cm, 5°									

GEOLOGIC CORE LOG OF MJUB-12 (2/4)

1/200

MJUB--12 (2/4) 50 m ~ 100 m

Level 243.38 m Direction S25°W
X 68,656.57m Inclination -80°
Y 92,261.07m Length 194.0m



GEOLOGIC CORE LOG OF MJUB-12 (3/4)

1/200

MJUB-12 (3/4) 100 m ~ 150 m

Level 243.38 m Direction S25°W
X 68,656.57m Inclination -80°
Y 92,261.07m Length 194.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS
		dk grey ss with py & sl bands, silici., & partly skarnized
	101.70	
	102.00	101.7-102.0m, frac zone
		105.8m, cal v, w=4cm, 20°
	107.70	
		107.7-135.0m, greensih grey alt (ss>>sl) silici. & skarnized, with py (abundant), rhodo
	117.00	117.0-121.0m, silici, skarnized metaso., with druesy qz, cal, py
		119.0m, qz v, w=1cm, 5°
		119.8m, cal, side v, w=1.5cm, 20°
	121.00	
	131.80	
	132.30	131.8-132.3m, pinkish brown syeno-dt
	135.00	135.0-140.1m, brownish green skarn with py, cp, ma
	140.10	139.5m, py, 5°
	141.80	140.1-141.8m, greenish grey alt (ss>>sl), silici. and skarnized
		141.8-146.9m, white silici. metaso. with py, ma
		142.8m, fault clay, w=2.5cm, 20°
		144.3m, syeno-dt v, w=2cm, 5°
	146.90	
	147.10	146.9-152.8m, dk grey dt
	148.00	147.1-153.8m, frac zone
	148.70	148.0-148.7m, granite

DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
107.7								
	B-12029	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
110.0								
	B-12030	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
112.0								
	B-12031	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
114.0								
	B-12032	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
115.5								
	B-12033	0.3	< 1	0.01	< 0.01	< 0.01	< 0.01	
117.0								
	B-12034	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
118.0								
	B-12035	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
119.0								
	B-12036	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
120.0								
	B-12037	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
121.0								
	B-12038	0.2	< 1	0.01	< 0.01	< 0.01	< 0.01	
123.0								
135.0								
	B-12039	0.4	< 1	0.02	0.06	< 0.01	< 0.01	
136.0								
	B-12040	0.4	< 1	0.03	0.02	< 0.01	< 0.01	
137.0								
	B-12041	< 0.1	< 1	0.04	2.5	< 0.01	< 0.01	
138.0								B-12L5 P, X 138.3
	B-12042	0.1	< 1	0.02	0.3	< 0.01	< 0.01	
139.0								
	B-12043	< 0.1	< 1	0.01	2	< 0.01	< 0.01	
140.1								
	B-12044	< 0.1	< 1	0.01	0.14	< 0.01	< 0.01	
141.8								
	B-12045	0.1	< 1	< 0.01	0.14	< 0.01	< 0.01	B-12L6 P 143.5
143.0								
	B-12046	< 0.1	< 1	< 0.01	0.95	< 0.01	< 0.01	
144.0								
	B-12047	< 0.1	< 1	< 0.01	0.34	< 0.01	< 0.01	
145.0								
	B-12048	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
146.0								
146.9	B-12049	< 0.1	< 1	< 0.01	0.06	< 0.01	< 0.01	

GEOLOGIC CORE LOG OF MJUB-12 (4/4)

1/200

MJUB－12 (4／4)　150 m ～ 194 m

Level 243.38 m　Direction S25°W
X 68,656.57m　Inclination -80°
Y 92,261.07m　Length 194.0m

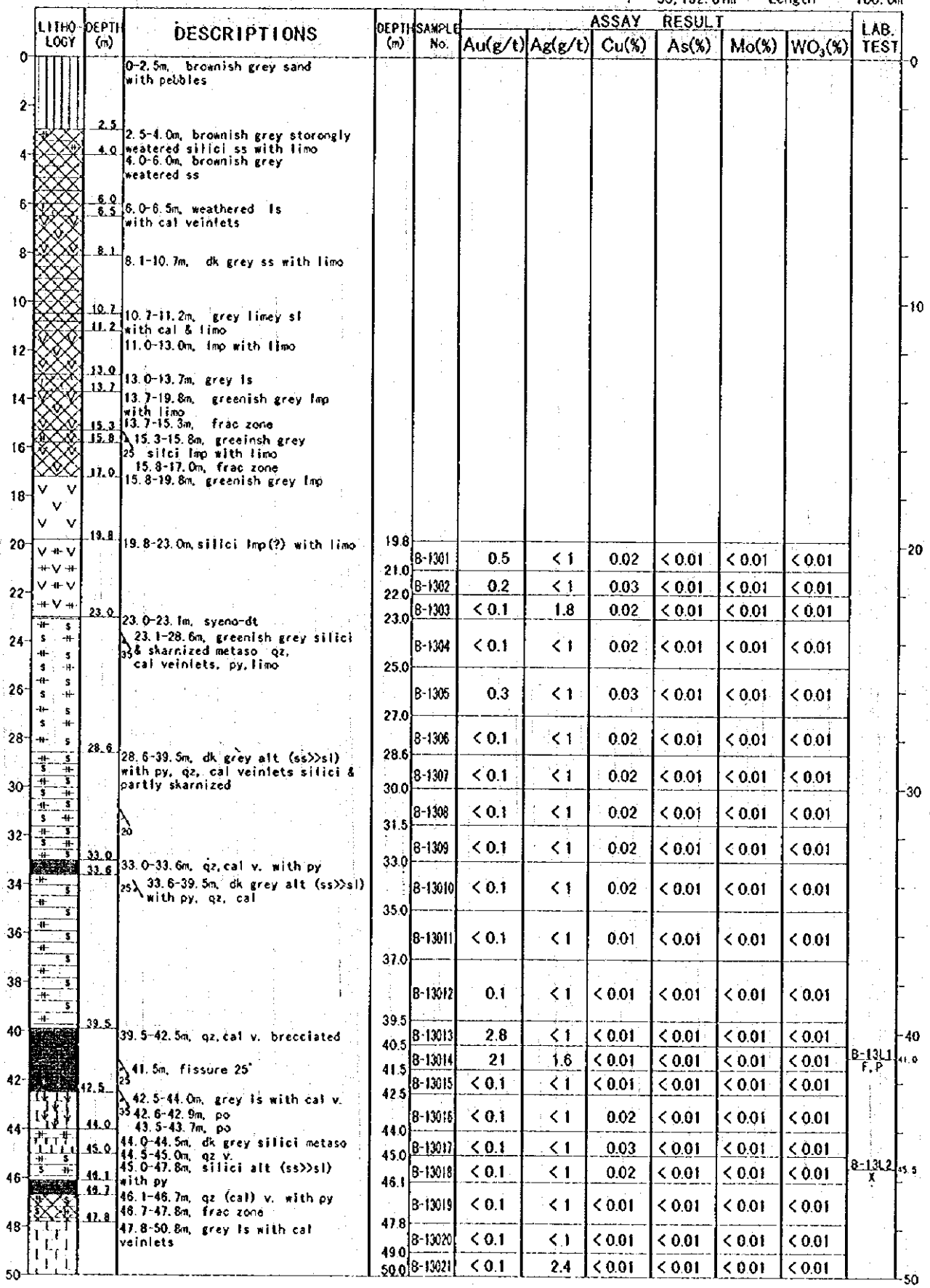
LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		dk grey dt									
	152.80	152.8-194.0m, syeno-dt									
	153.80	154.0m, joint with py, 15°									
	158.00										
	158.50	158.0-158.5m, frac zone									
	162.00										
	162.50	162.0-162.5m, frac zone									
	166.50										
	167.60	166.5-167.6m, frac zone									
	170.10	170.1-172.4m, grey dt									
		joint with cal vein, 30°									B-12L7 171.2 T
	172.40										
	179.00										
	179.40	179.0-179.4m, frac zone									
	182.50										
	183.00	182.5-183.0m, frac zone									
	191.60										
	192.00	191.6-192.0m, frac zone									
		192.2m, cal v., w=0.3cm, 50°									
	194.00	194.0m, Bottom of the hole									

GEOLOGIC CORE LOG OF MJUB-13 (1/2)

1/200

MJUB-13 (1/2) 0 m ~ 50 m

Level 234.04m Direction S20°W
X 68,295.81m Inclination -80°
Y 93,132.81m Length 100.0m



LITHOLOGY	DEPTH (m)	DESCRIPTIONS
	0	0-2.5m, brownish grey sand with pebbles
	2.5	
	4.0	2.5-4.0m, brownish grey storongly weatered silici ss with limo 4.0-6.0m, brownish grey weatered ss
	6.0	
	6.5	6.0-6.5m, weathered ls with cal veinlets
	8.1	8.1-10.7m, dk grey ss with limo
	10.7	
	11.2	10.7-11.2m, grey limey sl with cal & limo
		11.0-13.0m, lmp with limo
	13.0	
	13.7	13.0-13.7m, grey ls
		13.7-19.8m, greenish grey lmp with limo
	15.3	13.7-15.3m, frac zone
	15.8	15.3-15.8m, greeinsh grey silici lmp with limo
	17.0	15.8-17.0m, frac zone
		15.8-19.8m, greenish grey lmp
	19.8	
		19.8-23.0m, silici lmp(?) with limo
	23.0	
		23.0-23.1m, syeno-dt
		23.1-28.6m, greenish grey silici & skarnized metaso qz, cal veinlets, py, limo
	28.6	
		28.6-39.5m, dk grey alt (ss>>sl) with py, qz, cal veinlets silici & partly skarnized
	33.0	
	33.6	33.0-33.6m, qz, cal v. with py
		33.6-39.5m, dk grey alt (ss>>sl) with py, qz, cal
	39.5	
		39.5-42.5m, qz, cal v. brecciated
		41.5m, fissure 25°
	42.5	
		42.5-44.0m, grey ls with cal v. 42.6-42.9m, po 43.5-43.7m, po
	44.0	
	45.0	44.0-44.5m, dk grey silici metaso 44.5-45.0m, qz v.
	46.1	45.0-47.8m, silici alt (ss>>sl) with py
	46.7	46.1-46.7m, qz (cal) v. with py
	47.8	46.7-47.8m, frac zone
		47.8-50.8m, grey ls with cal veinlets

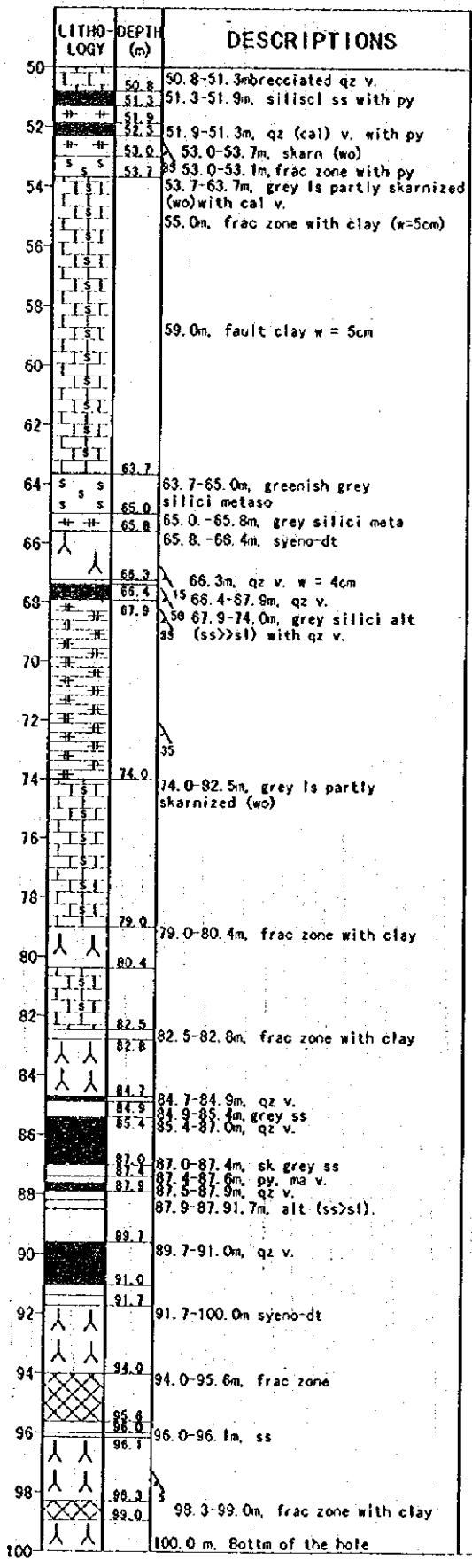
DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
19.8	B-1301	0.5	< 1	0.02	< 0.01	< 0.01	< 0.01	
21.0	B-1302	0.2	< 1	0.03	< 0.01	< 0.01	< 0.01	
22.0	B-1303	< 0.1	1.8	0.02	< 0.01	< 0.01	< 0.01	
23.0	B-1304	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
25.0	B-1305	0.3	< 1	0.03	< 0.01	< 0.01	< 0.01	
27.0	B-1306	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
28.6	B-1307	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
30.0	B-1308	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
31.5	B-1309	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
33.0	B-13010	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
35.0	B-13011	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
37.0	B-13012	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
39.5	B-13013	2.8	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
40.5	B-13014	21	1.6	< 0.01	< 0.01	< 0.01	< 0.01	B-13L1 F.P
41.5	B-13015	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
42.5	B-13016	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
44.0	B-13017	< 0.1	< 1	0.03	< 0.01	< 0.01	< 0.01	
45.0	B-13018	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	B-13L2 X
46.1	B-13019	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
47.8	B-13020	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
49.0	B-13021	< 0.1	2.4	< 0.01	< 0.01	< 0.01	< 0.01	
50.0								

GEOLOGIC CORE LOG OF MJUB-13 (2/2)

1/200

MJUB-13 (2/2) 50 m ~ 100 m

Level 234.04m Direction S20°W
X 68,295.81m Inclination -80°
Y 93,132.81m Length 100.0m



DEPTH (m)	SAMPLE No.	Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		ASSAY RESULT						
50.8	B-13022	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
52.3	B-13023	< 0.1	< 1	0.02	0.06	0.06	0.05	
53.7	B-13024	< 0.1	< 1	0.02	0.03	< 0.01	0.01	
63.7	B-13025	< 0.1	< 1	< 0.01	0.04	< 0.01	< 0.01	
65.0	B-13026	< 0.1	2.8	< 0.01	< 0.01	< 0.01	< 0.01	
66.4	B-13027	< 0.1	< 1	< 0.01	0.03	< 0.01	0.01	
67.9	B-13028	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
74.0	B-13029	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
75.5	B-13030	< 0.1	< 1	< 0.01	0.02	< 0.01	< 0.01	
77.0	B-13031	0.3	< 1	< 0.01	0.02	< 0.01	< 0.01	B-13L4 X 80.5
79.0	B-13032	0.3	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
80.4	B-13033	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-13L5 T 83.5
82.8	B-13034	< 0.1	< 1	< 0.01	0.03	< 0.01	< 0.01	
84.7	B-13035	0.1	< 1	< 0.01	0.03	< 0.01	< 0.01	
86.0	B-13036	0.1	< 1	0.02	0.02	< 0.01	0.01	B-13L6 P 87.5
87.0	B-13037	0.2	< 1	< 0.01	0.02	< 0.01	< 0.01	
87.9	B-13038	< 0.1	1.6	0.02	0.021	< 0.01	< 0.01	B-13L7 F 90
89.7								
91.0								

GEOLOGIC CORE LOG OF MJUB-14 (1/4)

1/200

MJUB-14 (1/4) 0 m ~ 50 m

Level 235.02m Direction S20°W
X 68,332.39m Inclination -80°
Y 93,144.74m Length 161.0m

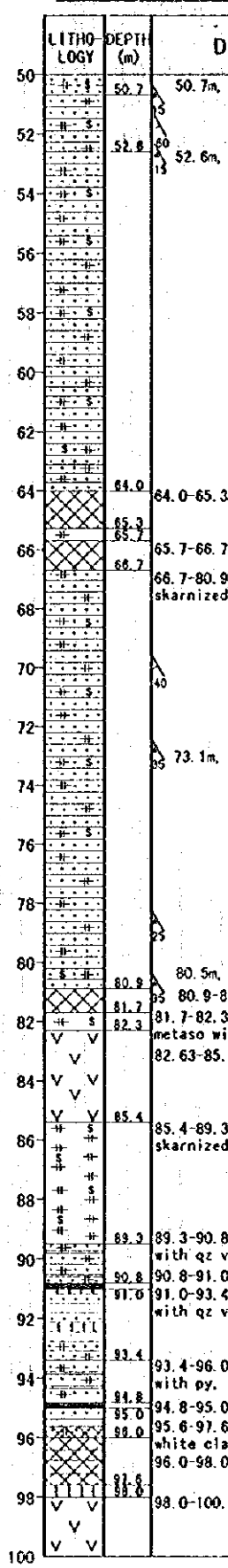
LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		0-2.0m, sand with pebbles									
	2.0	2.0-4.0m, strongly weathered silici alt (ss>>sl)	2.0								
	4.0	4.0-5.8m, weathered silici ss with py, limo, qz veinlets (45)	4.0	B-1401	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	5.8	5.8-8.2m, frac zone	5.8	B-1402	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	8.2		7.5	B-1403	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	8.7	8.2-8.7m, silici partly skarnized alt (ss>>sl) with limo, py	8.7	B-1404	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		8.7-10.5m, greenish grey lmp									
	10.5	10.5-17.6m, dk grey silici & partly skarnized ss with py, limo	10.5								B-14L1 T (10.3)
			12.5	B-1405	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			14.5	B-1406	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		Joint with qz w = 0.2cm (10)	16.0	B-1407	0.2	< 1	0.02	< 0.01	< 0.01	< 0.01	
	17.6		17.6	B-1408	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		17.6-21.5m, brownish grey metaso silici & weakly skarnized with py, limo (60)	19.5	B-1409	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	19.5	19.5-19.7m, frac zone		B-14010	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	21.5		21.5	B-14011	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		21.5-24.2m, brownish grey silici, weaky skarnized alt (ss>>sl) (50)	24.2	B-14012	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	24.2	24.2-26.4m, greenish grey silici, & skarnized metaso, with py	26.4								
	26.4	26.4-44.8m, grey ss, silici & weakly skarnized with py (65)	29.8	B-14013	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	29.8	29.8-31.2m, greenish grey silici, skarnized (act) ss with py	31.2								
	31.2										
		(45) 34.5m, cal v. w=1cm (5)									
	37.2										
	37.8	37.2-37.8m, greenish grey lmp									
	39.5	39.5-40.0m, frac zone									
	40.0	39.7m, cal v. w = 1cm, 15° (5) 41.2m, cal v. with py, ma w = 2.5cm, 25° (25)									
	42.8		42.8	B-14014	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		42.8-44.8m, greenish grey silici skarnized metaso with cal, act	44.8	B-14015	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	44.8	44.8-46.4m, brownish grey lmp with cal v., py (30)	46.4	B-14016	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	46.4	46.4-65.7m, dk grey silici & partly skarnized ss with qz (cal) v. & py	48.0	B-14017	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	48.0	48.0-49.5m, frac zone	50.0								
	49.5										

GEOLOGIC CORE LOG OF MJUB-14 (2/4)

1/200

MJUB-14 (2/4) 50 m ~ 100 m

Level 235.02m Direction S20°W
X 68,332.39m Inclination -80°
Y 93,144.74m Length 161.0m



DEPTH (m)	DESCRIPTIONS
50.7	50.7m, py, wo v. w = 1-3cm
52.8	52.6m, wo, py v. w = 1-2cm
64.0	64.0-65.3m, frac zone
65.3	
65.7	65.7-66.7m, frac zone
66.7	66.7-80.9m, grey silici & weakly skarnized ss with py
	73.1m, wo, side v. w = 0.5cm
80.9	80.5m, cal v. w = 1-1.5cm, 35°
	80.9-81.7m, frac zone
81.7	81.7-82.3m, silici & skarnized metaso with py
82.3	82.63-85.4m, brownish grey lmp
85.4	85.4-89.3m, brownish grey silici & skarnized metaso with cal, qz v. & py
89.3	89.3-90.8m, silici alt (ss>sl) with qz veinlets
90.8	90.8-91.0m, qz v.
91.0	91.0-93.4m, alt (ls, sl, ss) with qz veinlets
93.4	93.4-96.0m, silii alt (ss>sl) with py, qz veinlets
94.8	94.8-95.0m, qz, act v.
95.0	95.6-97.6m, frac zone with white clay
96.0	96.0-98.0m, ls with cal veinlets
97.6	
98.0	98.0-100.0m, greenish grey lmp

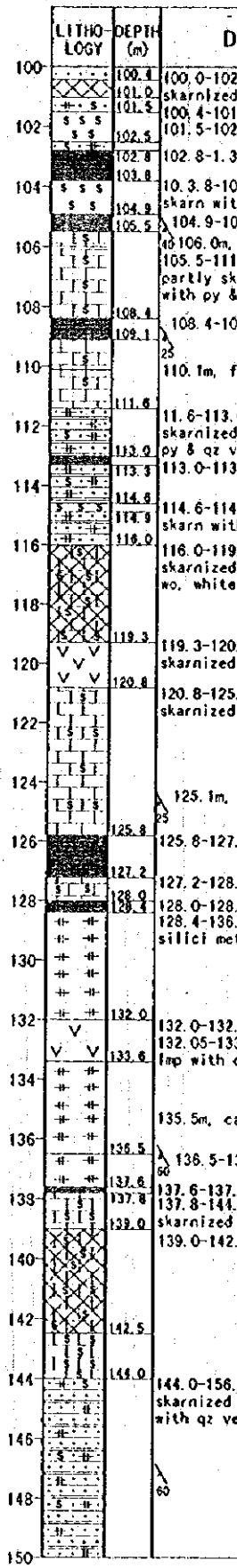
DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
50.0	B-14018	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
51.5	B-14019	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
53.4								
100.3	B-14020	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
100.3								
85.4	B-14021	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-14L2 P
86.5	B-14022	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
87.5	B-14023	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
88.5	B-14024	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
89.3	B-14025	< 0.1	1.6	< 0.01	< 0.01	< 0.01	< 0.01	
91.0	B-14026	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
93.4	B-14027	0.4	< 1	0.05	< 0.01	0.04	< 0.01	
95.0	B-14028	< 0.1	< 1	0.03	< 0.01	< 0.01	< 0.01	
96.5	B-14029	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
98.0								

GEOLOGIC CORE LOG OF MJUB-14 (3/4)

1/200

MJUB-14 (3/4) 100 m ~ 150 m

Level 235.02m Direction S20°W
X 68,332.39m Inclination -80°
Y 93,144.74m Length 161.0m



DEPTH (m)	DESCRIPTIONS
100.0	
100.4	100.0-102.8m, silici partly skarnized ss
101.0	
101.5	100.4-101.0m, frac zone
	101.5-102.5m, white skarn (wo, side)
102.5	
102.8	102.8-1.3.8m, qz v.
103.8	
	10.3.8-104.9m, dk brownish grey skarn with abundant py
104.9	
105.5	104.9-105.5m, qz v. with py
	@106.0m, fault clay w = 5cm
	105.5-111.6m, whitish grey ls partly skarnized alt (ss>sl) with py & qz veinlets
108.4	
109.1	108.4-109.1m, qz, wo v.
	25
	110.1m, fault cly
111.6	
	11.6-113.0m, grey silici & partly skarnized alt (ss>sl) with py & qz veinlets
113.0	
113.3	113.0-113.3m, qz v.
114.6	
114.9	114.6-114.9m, dk brownish grey skarn with abundant py
116.0	
	116.0-119.3m, whitesh grey skarnized & frac ls with wo, white clay
119.3	
	119.3-120.81m, greenish grey skarnized lmp with cal, side v.
120.8	
	120.8-125.8m, whitish grey ls skarnized (wo)
	125.1m, cal side v. w = 2cm
	25
125.8	
	125.8-127.2m, cal side v.
127.2	
	127.2-128.0m, grey ls with cal v.
128.0	
128.4	128.0-128.4m, clay v.
	128.4-136.5m, whitish grey silici metaso with py, qz veinlets
132.0	
	132.0-132.05m, fault clay
133.6	132.05-133.6m, greenish grey lmp with cal, wo veinlets
	135.5m, cal v. w = 2cm 60°
136.5	
	60
	136.5-137.6m, syeno-dt
137.6	
137.8	137.6-137.8m, cal side v.
	137.8-144.0m, whitesh grey skarnized ls (wo, diop, side)
139.0	
	139.0-142.5m, frac zone
142.5	
145.0	
	144.0-156.7m, silici & weakly skarnized alt (ss>sl) with qz veinlets, py
	60

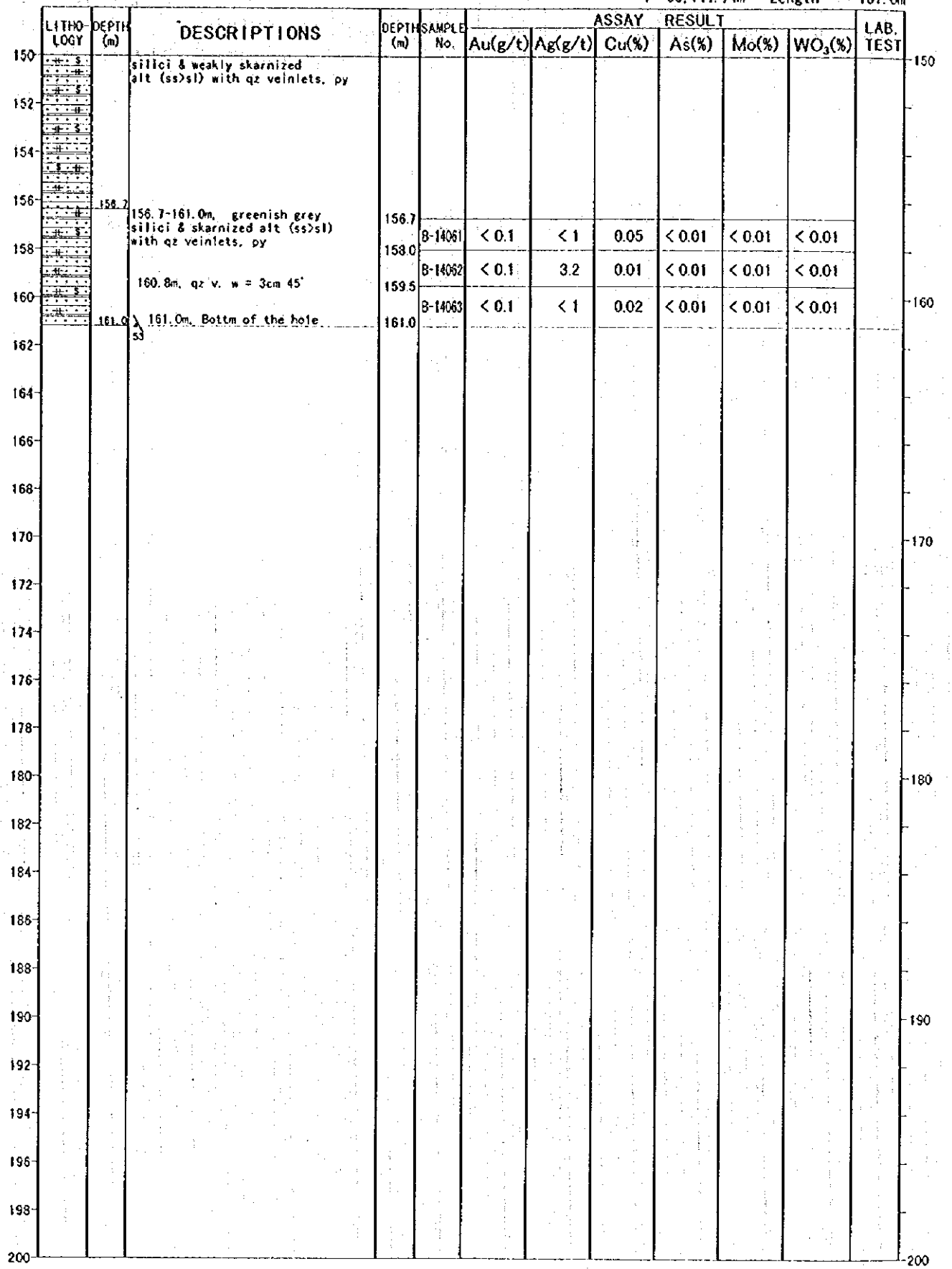
DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
100.0	B-14030	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
101.5	B-14031	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
102.5	B-14032	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
103.8	B-14033	< 0.1	< 1	0.03	< 0.01	< 0.01	< 0.01	B-14L4 X 104.2
104.9	B-14034	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	B-14L5 F 105.2
106.0	B-14035	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
108.0	B-14036	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
109.1	B-14037	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
111.1	B-14038	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
113.3	B-14039	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
114.6	B-14040	< 0.1	< 1	0.12	< 0.01	< 0.01	0.01	
116.0	B-14041	0.4	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
117.5	B-14042	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
119.3	B-14043	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
120.8	B-14044	< 0.1	2.8	< 0.01	< 0.01	< 0.01	< 0.01	
122.5	B-14045	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
124.0	B-14046	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
125.8	B-14047	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
127.2	B-14048	< 0.1	< 1	< 0.01	< 0.01	< 0.01	0.01	
128.4	B-14049	< 0.1	65.4	0.17	< 0.01	< 0.01	0.01	
130.0	B-14050	< 0.1	1.6	0.01	< 0.01	< 0.01	< 0.01	
132.0	B-14051	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
133.6	B-14052	< 0.1	1.8	0.02	< 0.01	< 0.01	< 0.01	
135.0	B-14053	< 0.1	2.8	0.01	< 0.01	< 0.01	< 0.01	
136.5	B-14054	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
137.6	B-14055	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
140.0	B-14056	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
142.0	B-14057	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	B-14L7 X 142.9
144.0	B-14058	< 0.1	2.8	0.04	< 0.01	< 0.01	< 0.01	
146.0	B-14059	< 0.1	1.8	0.03	< 0.01	< 0.01	< 0.01	
147.5	B-14060	< 0.1	< 1	0.03	< 0.01	< 0.01	< 0.01	
149.0								

GEOLOGIC CORE LOG OF MJUB-14 (4/4)

1/200

MJUB-14 (4/4) 150 m ~ 161 m

Level 235.02m Direction S20°W
X 68,332.39m Inclination -80°
Y 93,144.74m Length 161.0m



LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		silici & weakly skarnized alt (ss>sl) with qz veinlets, py									
	158.2	156.7-161.0m, greenish grey silici & skarnized alt (ss>sl) with qz veinlets, py	156.7								
			158.0	B-14061	< 0.1	< 1	0.05	< 0.01	< 0.01	< 0.01	
		160.8m, qz v. w = 3cm 45°		B-14062	< 0.1	3.2	0.01	< 0.01	< 0.01	< 0.01	
			159.5	B-14063	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
	161.0	161.0m, Bottm of the hole	161.0								

GEOLOGIC CORE LOG OF MJUB-15 (1/3)

1/200

MJUB-15 (1/3) 0 m ~ 50 m

Level 239.44m Direction S20°W
X 68,591.46m Inclination -80°
Y 92,394.96m Length 102.0m

DEPTH (m)	DESCRIPTIONS
0	0-2.0m, sand with pebbles
2.0	2.0-5.8m, greenish grey weathered lmp with limo
4.7	4.7m, cal v. w = 1cm 20°
5.8	5.8-11.5m, grey weatherd silici alt (ss>si)with cal, qz v. limo
9.5	9.5m, cal v. w = 0.2cm 30°
11.5	11.5-13.0m, frac zone
13.0	13.0-22.1m, grey silici weakly skarnized ss with qz, cal v. py, limo
15.2	15.2-16.0m, frac zone
16.0	
16.5	16.5-17.2m, frac zone
17.2	
22.1	22.1-101.0m, grey silici & weakly skarnized ss with py
25.9	25.9m, qz v. w = 3cm, 70°
29.2	29.2m, qz v. w = 0.5cm, 25°
36.1	36.1m, cal v. w = 0.7cm, 45°
37.0	37.0m, qz (py) l v. w = 2cm, 60°
42.5	42.5m, qz, cal v. w = 7cm, 60°
44.9	44.9m, cal v. w = 5cm,
49.0	49.0m, qz (py) v. w = 3cm,

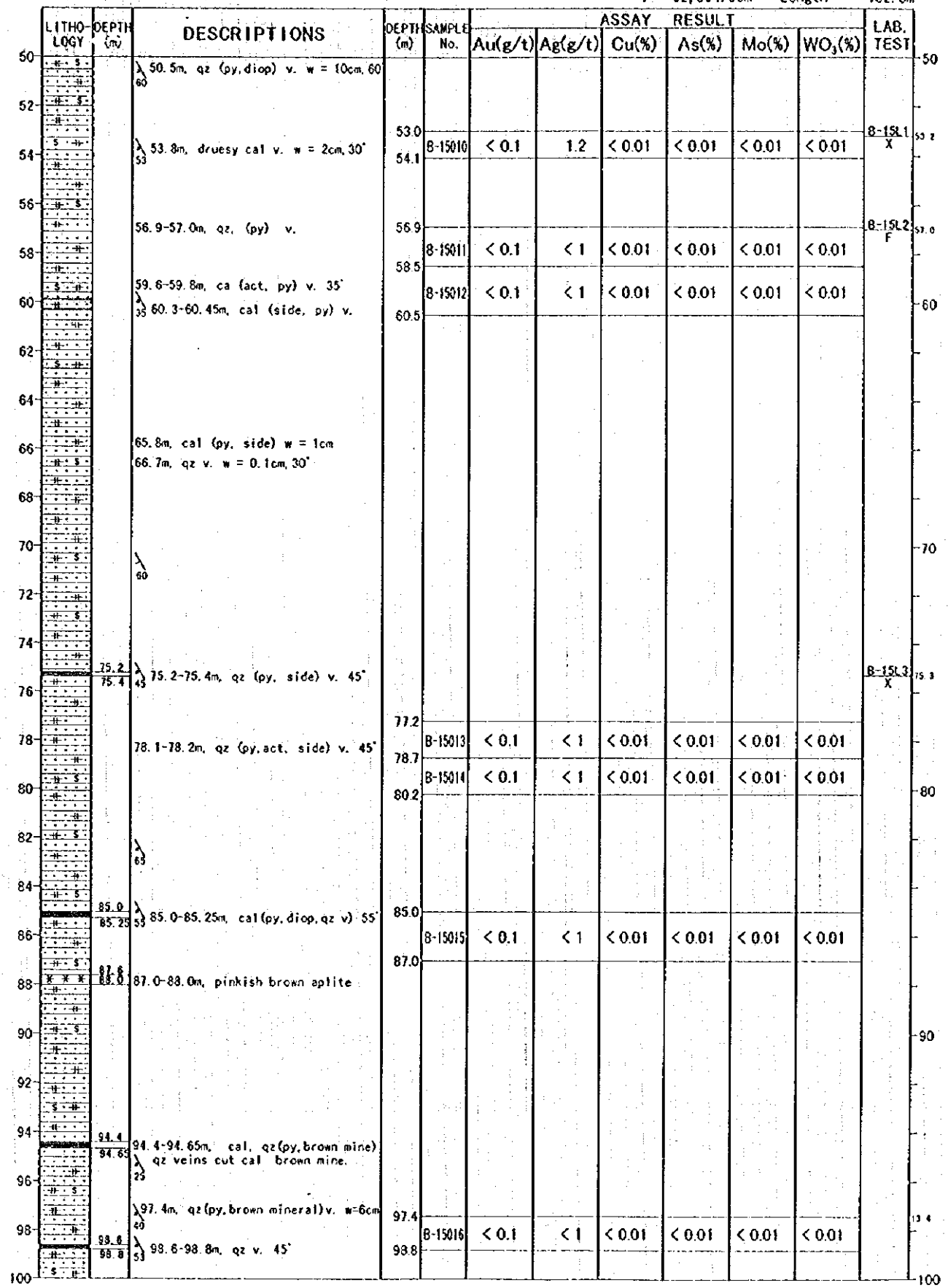
DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
5.8	B-1501	< 0.1	4.8	< 0.01	< 0.01	< 0.01	0.01	
8.0	B-1502	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
10.0	B-1503	< 0.1	1.6	< 0.01	< 0.01	< 0.01	< 0.01	
11.5	B-1504	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
13.0	B-1505	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
15.2	B-1506	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
17.2	B-1507	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
19.0	B-1508	< 0.1	1.6	< 0.01	< 0.01	< 0.01	< 0.01	
20.5	B-1509	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
22.1								

GEOLOGIC CORE LOG OF MJUB-15 (2/3)

1/200

MJUB-15 (2/3) 50 m ~ 100 m

Level 239.44m Direction S20°W
X 68,591.46m Inclination -80°
Y 92,394.96m Length 102.0m



DEPTH (m)	SAMPLE No.	Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
53.0	B-15010	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	B-15L1 X
54.1								
56.9								B-15L2 F
	B-15011	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
58.5								
	B-15012	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
60.5								
77.2								
	B-15013	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
78.7								
	B-15014	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
80.2								
85.0								
	B-15015	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
87.0								
97.4								
	B-15016	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
98.8								

GEOLOGIC CORE LOG OF MJUB-15 (3/3)

1/200

MJUB-15 (3/3) 100 m ~ 102 m

Level 239.44m Direction S20°W
X 68,591.46m Inclination -80°
Y 92,394.96m Length 102.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
	101.0	101.0-102.0m, blk alt(sl>ss) with py									
	102.0	102.0m, bottm of the hole									

GEOLOGIC CORE LOG OF MJUB-16 (1/4)

1/200

MJUB-16 (1/4) 0 m ~ 50 m

Level 242.56m Direction S20°W
X 68,633.00m Inclination -80°
Y 92,403.84m Length 151.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		0-3.0m, sand with pebbles									
	3.0	3.0-5.4m, weathered silici brownish grey ss with limo	3.0	B-1601	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	5.4	5.4-6.4m, qz (cal) v.	5.4	B-1602	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-16L1 F
	6.4		6.4								
	7.0	6.4-7.0m, weathered silici brownish grey ss with limo		B-1603	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	8.0	7.0-8.0m, frac zone	8.0	B-1604	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
		8.0-10.2m, grey-greenish yellow skarnized with qz, cal v., py	9.0	B-1605	< 0.1	1.6	< 0.01	< 0.01	< 0.01	< 0.01	
	10.2	10.2-20.4m, brownish grey silici & paartly skarnized with qz, cal v. py	10.2	B-1606	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		10 11.2m, qzv. w = 3cm 10°	12.0	B-1607	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
		14.2m, qz v. w = 5cm	14.0	B-1608	< 0.1	2.4	< 0.01	< 0.01	< 0.01	< 0.01	
			16.0	B-1609	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			18.0	B-16010	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	20.4	45 20.4-22.0m, alt (skarnized ls>ss) with cal veinlets, limo	20.4	B-16011	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	22.0	22.0-22.2m, qz v.	22.2	B-16012	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	22.2	22.2-27.1m, silici & weakly skarnized ss with py, limo	24.0	B-16013	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		40	25.5	B-16014	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	27.1	27.1-34.5m, grey-whitesh grey ls skarnized (wo, diop), with cal veinlets, inter bedded ss	27.1	B-16015	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-16L2 X
			29.0	B-16016	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
			31.0	B-16017	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			33.0	B-16018	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	34.5	34.5-43.7m, dk grey silici & weakly skarnized ss with py	34.5								
		39.6-40.8m, cal veinlets	39.6	B-16019	< 0.1	3.2	< 0.01	< 0.01	< 0.01	< 0.01	
	41.0	41.0-41.2m, dk greenish grey skarnized lmp	40.8								
		25	43.7	B-16020	0.3	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	43.7	43.7-50.2m, greenish grey silici skarnized metaso with qz, py	45.0	B-16021	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			46.5	B-16022	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			48.0	B-16023	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-16L4 T, X

GEOLOGIC CORE LOG OF MJUB-16 (2/4)

1/200

MJUB-16 (2/4) 50 m ~ 100 m

Level 242.56m Direction S20°W
X 68,633.00m Inclination -80°
Y 92,403.84m Length 151.0m

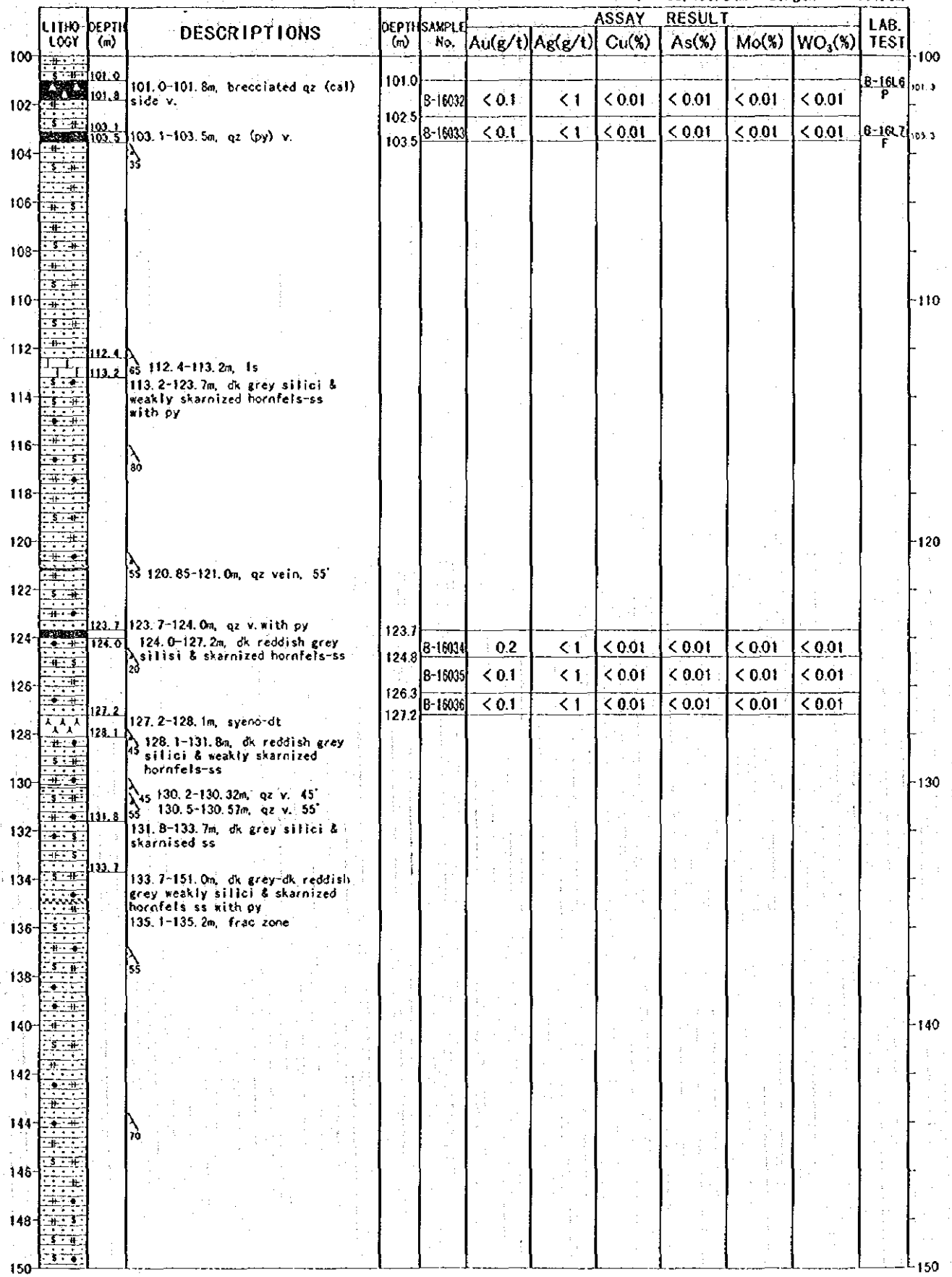
LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
	50.2	50.2-51.2m, greenish grey silicci & weakly skarnized ss with py	50.1								
	52.1	51.2-51.3m weakly skarnized ls									
	52.3										
	59.4	58.4-59.2m, pinkish grey ap									
	59.2	59.1-61.0m, greenish grey silici & skarnized metaso (70)									
	60.0										
	60.9	60.0-60.9m, pinkish grey ap									
		61.1-61.3m, pinkish grey ap (45)									
		60.9-68.3m, greenish grey silici. & weakly skarnized ss with py									
	68.3		68.3								
	69.4	68.3-69.4m, greenish grey silici & sskaarnized metaso qz, py		B-16024	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
		69.4-79.5m, greenish grey silici & weakly skaarnized ss	69.4								
		75.5m, cal v. w = 3cm 15° (15)									
		(60)									
	79.5		79.5								
		79.5-87.8m, greenish grey silici skarnized ss with cal, qz, side v, & py		B-16025	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			81.0	B-16026	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		82.9m, qz (cal) v. w = 4cm 40° (40)	82.5	B-16027	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		(15)	84.0	B-16028	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
	85.3		85.3								
	85.9	(30)		B-16029	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		87.0-87.2m, frac zone	86.5	B-16030	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	87.8	87.5-87.8m, frac zone	87.8	B-16031	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	88.6	87.8-88.6m, qz (cal, side), py v. (35)	88.6								
		88.6-112.4m, dk grey silci weakly skarnized, hornfels with py (25)									
		89.9m, qz v. w = 3cm 25°									
	94.5										
	95.3	94.5-95.3m, frac zone with clay (15)									

GEOLOGIC CORE LOG OF MJUB-16(3/4)

1/200

MJUB-16 (3/4) 100 m ~ 150 m

Level 242.56m Direction S20°W
X 68,633.00m Inclination -80°
Y 92,403.84m Length 151.0m



DEPTH (m)	DESCRIPTIONS
101.0	101.0-101.8m, brecciated qz (cal) side v.
101.8	
103.1	103.1-103.5m, qz (py) v.
103.5	
112.4	112.4-113.2m, ls
113.2	113.2-123.7m, dk grey silici & weakly skarnized hornfels-ss with py
120.85	120.85-121.0m, qz vein, 55°
123.7	123.7-124.0m, qz v. with py
124.0	124.0-127.2m, dk reddish grey silisi & skarnized hornfels-ss
127.2	127.2-128.1m, syeno-dt
128.1	128.1-131.8m, dk reddish grey silici & weakly skarnized hornfels-ss
130.2	130.2-130.32m, qz v. 45°
130.5	130.5-130.57m, qz v. 55°
131.8	131.8-133.7m, dk grey silici & skarnised ss
133.7	133.7-151.0m, dk grey-dk reddish grey weakly silici & skarnized hornfels ss with py
	135.1-135.2m, frac zone

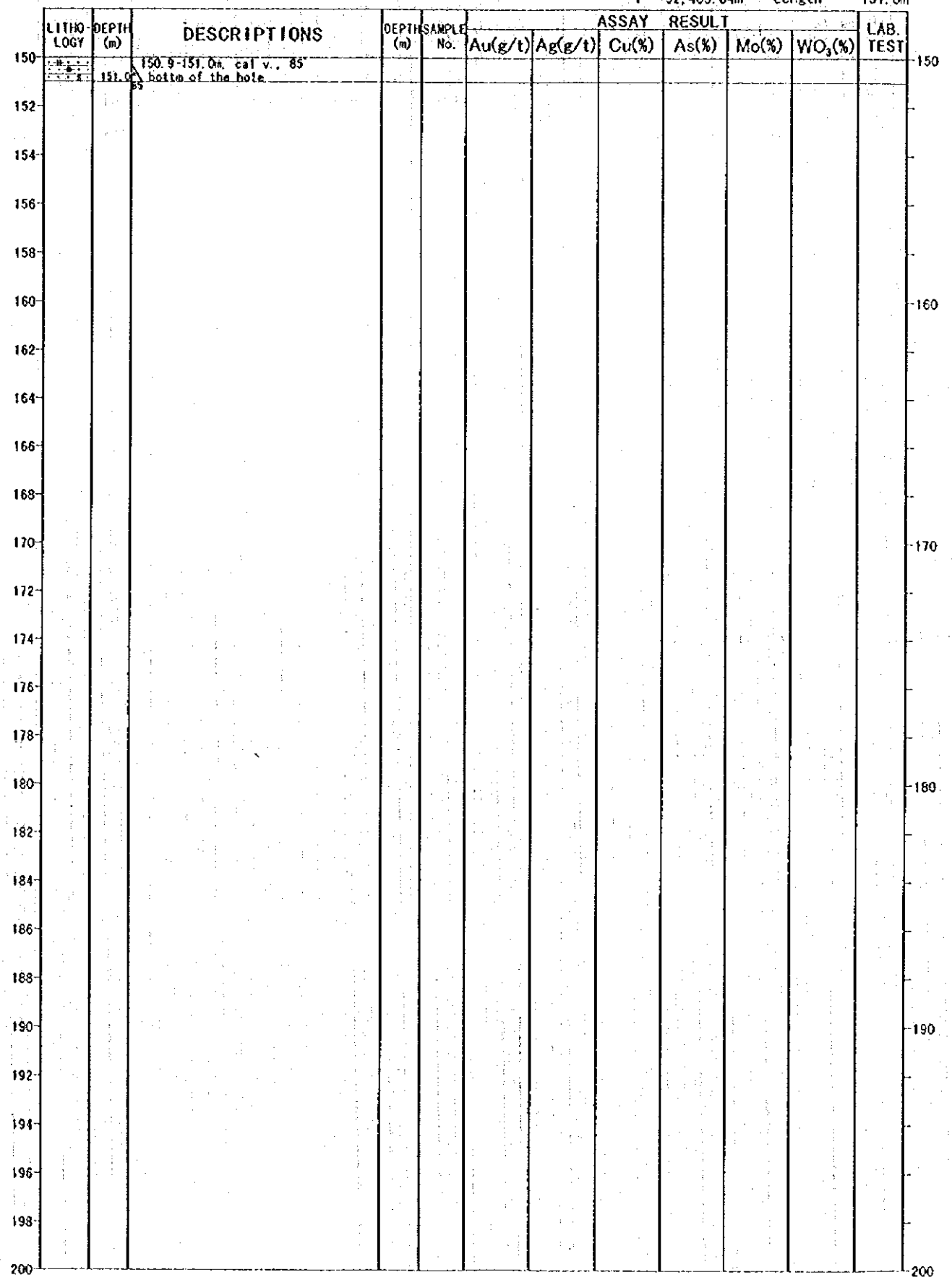
DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
101.0								
	B-16032	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-16L6 P
102.5								
103.5	B-16033	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-16L7 F
123.7								
124.8	B-16034	0.2	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	B-16035	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
126.3								
127.2	B-16036	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	

GEOLOGIC CORE LOG OF MJUB-16 (4/4)

1/200

MJUB-16 (4/4) 150 m ~ 151 m

Level 242.56m Direction S20°W
X 68,633.00m Inclination -80°
Y 92,403.84m Length 151.0m



GEOLOGIC CORE LOG OF MJUB-17 (1/2)

1/200

MJUB-17 (1/2) 0 m ~ 50 m

Level 233.68 m Direction S35°W
X 68,372.88 m Inclination -80°
Y 92,828.53 m Length 100.0m

DEPTH (m)	DESCRIPTIONS
0	0-3.0m, sand with pebbles
3.0	3.0-11.1m, brownish grey strongly weathered silici ss with limo
11.1	11.1-19.6m, brownish grey weathered sillsi.metaso with limo
19.8	19.6-19.8m, gry ls with cal v.
	19.8-23.4m, greenish grey lmp with limo, cal
23.4	23.4-24.0m, frac zone with clay
24.0	24.0-25.0m, lmp with cal veinlets
25.0	25.0-25.5m, frac. zone with clay
25.5	25.5-25.7m, cal, v. with py
25.7	25.7-26.4m, fault clay
26.4	26.4-30.5m, dk grey ss with cal, py
30.5	30.5-31.0m, dk grey sikici ss with abundant cal,qz, py
31.0	
32.1	
32.8	32.8-35.5m, whitish grey qzite with py
34.5	34.5-35.5m, greenish grey skarnized qzite with hed, act, diop,rhodo
35.5	35.5-38.7m, dk grey ss with qz, py
38.7	38.7-44.8m, grey ls partly skarnized (wo)
44.8	44.8-45.6m, whitesh grey qzite
45.6	45.6-46.2m, dk grey silici ss
46.2	46.2-46.9m, skarnized ls with hed
46.9	46.9-49.7m, dk grey silici & skarnized ss with py
48.8	48.8-49.3m, greenish grey lmp
49.3	49.7-49.9m, greenish grey lmp
49.9	49.9-50.4m, green skarn with py

DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
4.0	B-17001	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
6.0	B-17002	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
8.0	B-17003	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
10.0	B-17004	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
12.0	B-17005	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
14.0	B-17006	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
16.0	B-17007	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
18.0	B-17008	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
19.8								B-17L2 T
23.4	B-17009	0.6	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
25.0	B-17010	2	< 1	0.03	0.04	< 0.01	< 0.01	
26.4	B-17011	0.1	< 1	0.01	0.04	< 0.01	< 0.01	
28.0	B-17012	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
29.5	B-17013	< 0.1	< 1	< 0.01	0.04	< 0.01	< 0.01	
30.5	B-17014	0.4	8.4	0.05	0.2	< 0.01	< 0.01	
31.5	B-17015	< 0.1	< 1	< 0.01	0.08	< 0.01	< 0.01	
32.8	B-17016	< 0.1	2.4	< 0.01	< 0.01	< 0.01	< 0.01	
34.5	B-17017	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-17L3 X
35.5	B-17018	< 0.1	6	< 0.01	< 0.01	< 0.01	< 0.01	
37.0	B-17019	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
38.7	B-17020	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
41.0	B-17021	< 0.1	< 1	0.03	< 0.01	< 0.01	< 0.01	
43.0	B-17022	< 0.1	< 1	< 0.01	0.02	< 0.01	< 0.01	
44.8	B-17023	0.2	< 1	0.15	< 0.01	0.01	< 0.01	
46.2	B-17024	< 0.1	4.4	< 0.01	0.02	< 0.01	< 0.01	
46.9	B-17025	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
48.5	B-17026	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
49.9								

GEOLOGIC CORE LOG OF MJUB-17 (2/2)

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MJUB-17 (2/2) 50 m ~ 100 m

Level 233.68 m Direction S35°W
X 68,372.88 m Inclination -80°
Y 92,828.53 m Length 100.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS
	50.4	50.4-58.8m, grey whitish skarnized ls (wo)
	51.8	
	52.0	51.8-52.0m, syeno dt
		56.4-56.5m, frac zone
		56.8-57.1m, skarn (wo)
	58.8	58.8-62.4m, syeno dt
	62.4	62.4-64.0m, grey skarnized ls
	66.0	66.0-69.4m, grey qzite with ss
	69.4	69.4-73.5m, dk grey alt (sl=ss)
	71.5	71.5-71.9m, qzite
	71.9	
	73.5	73.9-78.7m, slici & skearnized metaso. with abundant py, ma
	74.8	74.8-75.0m, py, po, cp vein
	78.7	78.7-90.9m, syeno-dt
		84.0-90.9m, syeno-dt with py
		88.8-qz, py v.W = 2cm 15°
	90.9	90.9-100.0m, grey dt
	91.1	90.9-91.2m, frac zone
		98.0-100.0m, frac zone
		100.0m Botm of the hole

DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
51.8	B-17027	< 0.1	1.6	< 0.01	0.04	< 0.01	< 0.01	
53.5	B-17028	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
55.0	B-17029	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
56.8	B-17030	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
58.8	B-17031	< 0.1	4.8	0.03	0.03	0.01	< 0.01	
62.4	B-17032	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
64.0	B-17033	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
66.0	B-17034	< 0.1	6.4	< 0.01	0.06	< 0.01	< 0.01	
67.5	B-17035	< 0.1	< 1	< 0.01	0.03	< 0.01	< 0.01	
69.4	B-17036	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
71.5	B-17037	< 0.1	4.8	< 0.01	0.02	< 0.01	< 0.01	
73.5	B-17038	< 0.1	3.6	0.1	0.02	< 0.01	0.01	
74.8	B-17039	6	23.8	0.33	0.75	< 0.01	< 0.01	B-17L4 P 75.4
75.5	B-17040	< 0.1	16.6	0.31	0.03	< 0.01	< 0.01	
76.5	B-17041	< 0.1	< 1	0.04	0.02	< 0.01	< 0.01	
77.5	B-17042	0.1	8.4	0.12	0.4	< 0.01	< 0.01	X B-17L5 78.5 B-17L6 P 78.9
78.7								

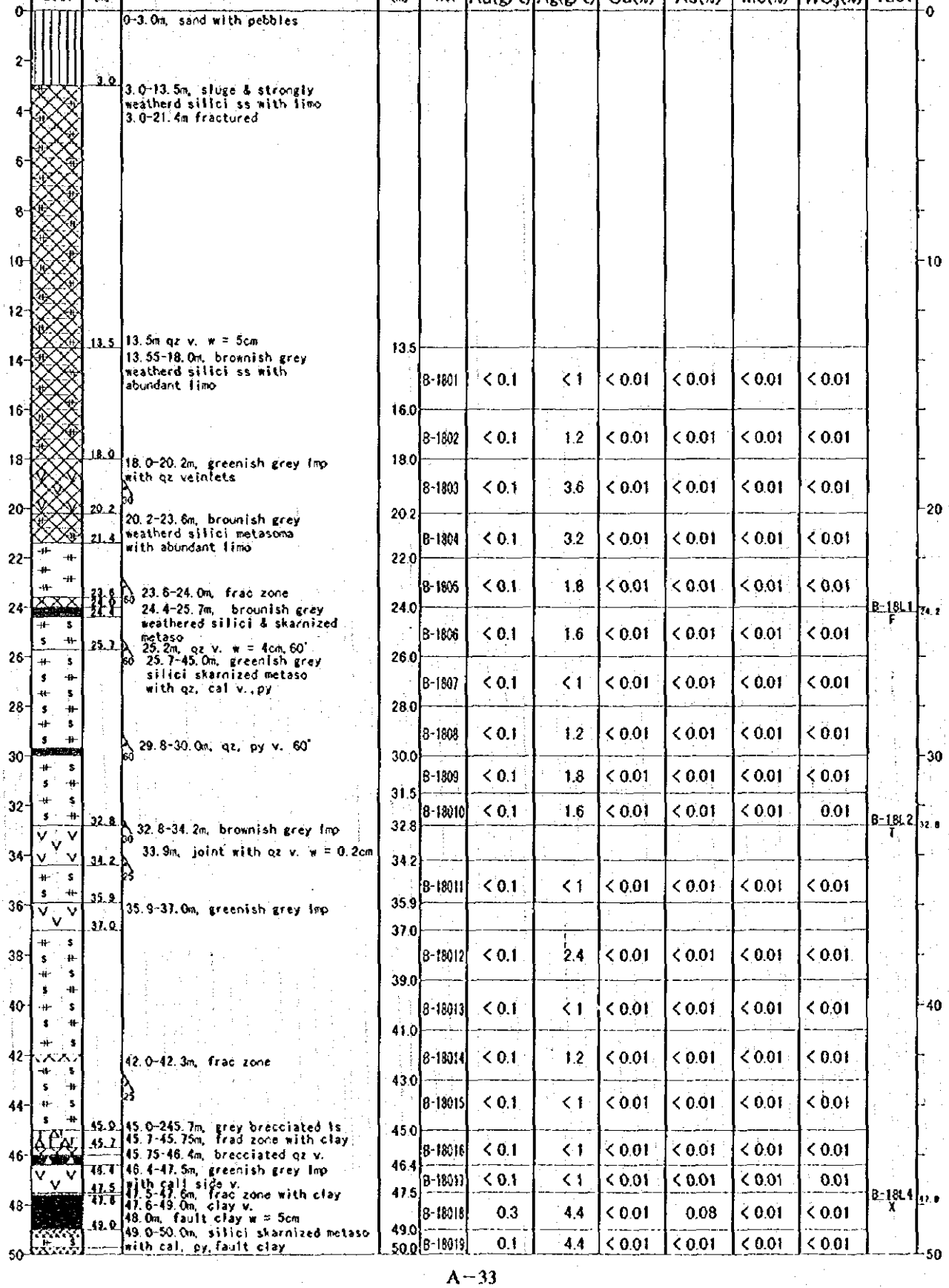
GEOLOGIC CORE LOG OF MJUB-18 (1/4)

1/200

MJUB-18 (1/4) 0 m ~ 50 m

Level 233.17 m
X 68,395.26 m
Y 92,848.21 m

Direction S35°W
Inclination -80°
Length 154.0m



DEPTH (m)	DESCRIPTIONS
0	0-3.0m, sand with pebbles
3.0	3.0-13.5m, sluge & strongly weatherd silici ss with limo
	3.0-21.4m fractured
13.5	13.5m qz v. w = 5cm
	13.55-18.0m, brownish grey weatherd silici ss with abundant limo
18.0	18.0-20.2m, greenish grey lmp with qz veinlets
20.2	20.2-23.6m, brownish grey weatherd silici metasoma with abundant limo
21.4	
23.6	23.6-24.0m, frac zone
24.0	24.4-25.7m, brounish grey weathered silici & skarnized metaso
25.7	25.2m, qz v. w = 4cm, 60°
	25.7-45.0m, greenish grey silici skarnized metaso with qz, cal v., py
	29.8-30.0m, qz, py v. 60°
32.8	32.8-34.2m, brownish grey lmp
	33.9m, joint with qz v. w = 0.2cm
34.2	
35.9	35.9-37.0m, greenish grey lmp
37.0	
	42.0-42.3m, frac zone
45.0	45.0-245.7m, grey brecciated ls
45.7	45.7-45.75m, frad zone with clay
	45.75-46.4m, brecciated qz v.
46.4	46.4-47.5m, greenish grey lmp with cali side v.
47.5	47.5-47.6m, frac zone with clay
47.6	47.6-49.0m, clay v.
	48.0m, fault clay w = 5cm
49.0	49.0-50.0m, silici skarnized metaso with cal, py, fault clay

DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
13.5	B-18011	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
16.0	B-18012	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
18.0	B-18013	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
20.2	B-18014	< 0.1	3.2	< 0.01	< 0.01	< 0.01	< 0.01	
22.0	B-18015	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
24.0	B-18016	< 0.1	1.6	< 0.01	< 0.01	< 0.01	< 0.01	B-18L1 F
26.0	B-18017	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
28.0	B-18018	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
30.0	B-18019	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
31.5	B-18010	< 0.1	1.6	< 0.01	< 0.01	< 0.01	0.01	B-18L2 T
32.8								
34.2	B-18011	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
35.9								
37.0	B-18012	< 0.1	2.4	< 0.01	< 0.01	< 0.01	< 0.01	
39.0	B-18013	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
41.0	B-18014	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
43.0	B-18015	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
45.0	B-18016	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
46.4	B-18017	< 0.1	< 1	< 0.01	< 0.01	< 0.01	0.01	
47.5	B-18018	0.3	4.4	< 0.01	0.08	< 0.01	< 0.01	B-18L4 X
49.0	B-18019	0.1	4.4	< 0.01	< 0.01	< 0.01	< 0.01	

GEOLOGIC CORE LOG OF MJUB-18 (2/4)

1/200

MJUB-18 (2/4) 50 m ~ 100 m

Level 233.17 m Direction S35°W
X 68,395.26 m Inclination -80°
Y 92,848.21 m Length 154.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS
	51.1	50.0-51.1m, dk greenish grey dt with cal veinlets, py, fault clay
	51.7	51.1-51.7m, frac zone with fault clay
	52.0	51.7-52.0m, str. silici, metaso with qz v.
	52.2	52.0-52.2m, qz (cal)v.
		52.2-55.0m, dk grey dt.
	54.5	52.2-54.5m, frac zone
	55.0	55.0-56.0m, frac zone with fault clay
	56.0	56.0-63.4m, pinkish grey syeno dt
	56.5	56.0-56.5m, frac zone
	57.0	
	57.6	57.0-57.6m, frac zone
	60.0	
	60.7	60.0-60.7m, frac zone
	61.4	
	61.8	61.4-61.8m, frac zone
	63.0	
	63.4	63.0-63.4m, frac zone
	63.7	63.7-65.0m, grey dt with qz v. 40
	65.0	
	65.6	65.0-65.6m, syano-dt with cal v.
	66.3	65.6-66.3m, frac zone with clay
		66.3-70.6m, grey silici alt (ss>>sk) with qz veinlets, py
	68.7	
	69.0	68.7-69.0m, frac zone with clay
	69.5	69.0-69.5m, dqz, cp, py v.
	70.35	70.1-70.35m, qz (py) v.
	70.6	70.6-77.1m, grey ls, partly skarnized with wo, white clay
	72.4	
	73.0	72.4-73.0m, syeno dt
	74.0	
	74.3	74.0-74.3m, syeno dt 50
	77.1	77.1-92.9m, greenish grey skarnized dt with cal veinlets 40
	80.5	
	80.7	80.5-80.7m, frac zone
	81.0	80.1-80.7m, qz v. 25° 25
	86.8	86.8-88.6m, whitish grey skarnized ls (wo)
	88.6	
		89.5m, syano-dt dyke w = 1cm 60° 55 60
		91.7m, cal v. w = 3cm 35° 35
	92.9	92.9-97.2m, pinkish grey-greenish grey syeno-dt
		94.9-95.0m, silici ss 40
	97.2	97.2-98.0m, qz v.
	98.0	98.0-100.1m, blk sl with py

DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
50.0	B-18020	0.1	4.4	< 0.01	< 0.01	< 0.01	< 0.01	
51.1	B-18021	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
52.2	B-18022	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
53.0	B-18023	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
55.0								
66.3	B-18024	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
67.5	B-18025	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	X B-18L5
69.0	B-18026	9.8	72.8	3.5	0.45	< 0.01	0.02	B-18L6 69.1 69.3 P
69.5	B-18027	0.1	4.8	< 0.01	0.02	< 0.01	< 0.01	B-18L7 70 70.1 F
70.6	B-18028	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
72.4	B-18029	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
74.0								
86.8	B-18030	0.1	4.8	< 0.01	< 0.01	< 0.01	< 0.01	B-18L8 77.8 T
88.6								
97.2	B-18031	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
98.0								

GEOLOGIC CORE LOG OF MJUB-18 (3/4)

1/200

MJUB-18 (3/4) 100 m ~ 110 m

Level 233.12 m Direction s 35°w
X 68,395.26 m Inclination -80°
Y 92,848.21 m Length 154.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS
	100.1	100.1-100.2m, greenish grey silici & skarnized metaso with py
	101.6	101.6-101.8m, qz v.
	102.0	102.0-102.2m, frac zone
	103.0	102.4-103.0m, str. silici metaso with druesy qz
		103.0-109.9m, whitesh grey ls with skarn (wo) sulphide v.
		108.1-1068.2m, py, ma, po v.
		108.4-108.5m, py, ma, v.
	109.9	109.9-110.5m, grey dt
	110.5	110.5-113.0m, greenish grey syeno-dt
	113.0	113.0-154.0m, pinkish grey syeno-dt
		119.2m, qz v. w = 0.2cm
		124.7m, qz (py) v. w = 4cm
		joint 45°
	132.6	132.6-133.0m, frac zone
	133.0	
	135.8	qz v. w = 0.2cm
		joint

DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
100.1	B-18032	< 0.1	1.8	0.02	< 0.01	0.01	0.04	
101.6	B-18033	< 0.1	< 1	< 0.01	< 0.01	0.01	< 0.01	
103.0	B-18034	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
105.0	B-18035	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
106.5	B-18036	< 0.1	1.6	< 0.01	< 0.01	< 0.01	< 0.01	
108.0	B-18037	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-18L9 P
109.0	B-18038	< 0.1	2.8	< 0.01	< 0.01	< 0.01	< 0.01	
109.9								

GEOLOGIC CORE LOG OF MJUB-18 (4/4)

1/200

MJUB-18 (4/4) 150 m ~ 154m

Level 233.17 m Direction S35°W
X 68,395.26 m Inclination -80°
Y 92,848.21 m Length 154.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		pinkish grey syeno-dt									
	154.0	154.0m, Bottm of the hole									

150 152 154 156 158 160 162 164 166 168 170 172 174 176 178 180 182 184 186 188 190 192 194 196 198 200

GEOLOGIC CORE LOG OF MJUB-19 (1/3)

1/200

MJUB-19 (1 / 3) 0 m ~ 50 m

Level 235.05 m Direction S20°W
X 68,339.69 m Inclination -80°
Y 93,010.41 m Length 150.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS
	0	0-3.0m, sand with pebbles
	3.0	3.0-9.4m, brownish grey silici & skarnized alt (ss>>sl) with limo
	9.4	9.4-10.8m whitish grey partly skarnized ls with limo
	10.8	10.8-12.8m, greenish grey fractured silici & skarnized alt (ss>>sl) with limo
	12.8	12.8-14.0m, whitesh grey partly skarnized ls
	14.0	14.0-18.5m, silici & skarnized hornfels ss with qz veinlets py
	18.5	18.5-22.5m, greenish dk grey silici & skarnized hornfels ss with py, limo
	22.5	22.5-24.0m, pinkish grey corse syeno-dt with limo
	24.0	24.0-35.8m, dk grey-greenish grey silici & skarnized hornfels ss with py
	35.8	35.8-43.4m, dk grey weakly silici & skarnized alt (ss>sl) with qz veinlets & py
	43.4	43.4-47.5m, greenish dk grey silici & skarnized hornfels ss with py
	47.5	47.5-48.9m, pinkish grey syeno-dt
	48.9	48.9-50.7m, greenish grey slici & skarnized ss wfith py

DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
3.0								
	B-19001	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
5.0								
	B-19002	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
7.0								
	B-19003	< 0.1	1.8	0.01	< 0.01	< 0.01	< 0.01	
9.4								
	B-19004	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
10.8								
	B-19005	< 0.1	6.4	< 0.01	< 0.01	< 0.01	< 0.01	
12.8								
	B-19006	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
14.0								
	B-19007	< 0.1	3.2	< 0.01	< 0.01	< 0.01	< 0.01	
15.5								
	B-19008	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
17.0								
	B-19009	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
18.5								
24.0								
	B-19010	< 0.1	< 1	< 0.01	< 0.01	< 0.01	0.05	
26.0								
	B-19011	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
27.7								B-19011 X 27.6

GEOLOGIC CORE LOG OF MJUB-19 (2/3)

1/200

MJUB-19 (2/3) 50 m ~ 100 m

Level 235.05 m Direction S20°W
X 68,339.69 m Inclination -80°
Y 93,010.41 m Length 150.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS
	50.7	50.7-51.8m, greenish dk grey silici skarnized metaso wo with py & qz
	51.8	51.3m, qz v. w = 6cm, 10°
		51.8-55.0m, plinkish grey syeno-dt
		53.7m, joint with py, 55°
	55.0	
	58.3	
		58.3-60.1m, pinkish grey crs syeno-dt
	60.1	
		60.1-62.0m, greenish grey-dk grey silici & weakly skarnized metaso with network qz, py
	61.0	
	62.0	
		61.0-61.4m, greenish grey lmp
		62.0-68.8m, grey silici & weakly skarnized qzite with network qz, py
		67.0-569.0m, y frac. zone
	68.8	
		68.8-70.5m, dk grey lmp
	70.5	
		70.5-73.7m, dk grey silici weakly skarnized metasoma network qz, py
	73.5	
		73.5-80.5m, dk grey lmp
		joint with cal (w = 0.2cm), 35°
		81.0-81.5m, cal v. 25°
	83.0	
	83.5	83.0-83.5m, grey ls
	84.3	83.5-84.3m, cal v.
	85.0	
		85.0-87.3m, dk grey lmp skarnized alt (ss>>sl) with py.
	87.3	
		87.3-92.0m, dk grey silisi & weakly skarnized metasoma with qz & py
		90.1-90.2m, qz, py v. 90°
	92.0	
		92.0-94.7m, reddish grey dt with abundant biotite
	94.7	
		94.7-97.0m, dk grey silici & skarnized ss with py
	97.0	
		97.0-99.2m, reddish grey dt with abundant biotite
	99.2	
		99.2-101.3m, dk grey silici & weakly skarnized ss with py

DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
60.1								
	B-19012	< 0.1	1.6	< 0.01	< 0.01	< 0.01	< 0.01	B-19L2 P
62.0								
	B-19013	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
63.3								
	B-19014	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
65.0								
	B-19015	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
67								
	B-19016	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
68.8								
	B-19017	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
70.5								
	B-19018	< 0.1	2.8	< 0.01	< 0.01	< 0.01	< 0.01	
72.0								
	B-19019	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
73.5								
83.5								
	B-19020	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
85.0								
83.5								
	B-19021	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
89.0								
	B-19022	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-19L3 F.P
90.5								
	B-19023	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
92.0								
94.7								
	B-19024	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
97.0								
								B-19L4 T

GEOLOGIC CORE LOG OF MJUB-19 (3/3)

1/200

MJUB-19 (3/3) 100 m ~ 150 m

Level 235.05 m Direction S20°W
X 68,339.69 m Inclination -80°
Y 93,010.41 m Length 150.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		101.3-101.5m, qz cal v. 35°									
	101.3	101.5-102.1m, whitish grey skarnized ls	101.3								
	101.5	102.1-102.3m, cal v.		B-19025	< 0.1	3.4	0.02	< 0.01	< 0.01	< 0.01	
	102.3	102.3-106.0m, greenish grey silici & skarnized metaso wo, with py	102.3	B-19026	< 0.1	2.4	0.01	< 0.01	< 0.01	< 0.01	
		104.5-105.5m, frac zone with clay	104.0	B-19027	< 0.1	7.6	0.02	< 0.01	< 0.01	< 0.01	
	106.0	10.6.-109.6m, dk grey silisi & weakly skarnized ss with py	106.0								
	109.6	109.6-111.5m, greenish grey-dk grey silici & skarnized metaso with cal veinlets & py	109.6	B-19028	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	111.5	111.5-112.2m, grey ls part skarnized	111.5	B-19029	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	112.3	112.3-112.5m, frac zone with clay	112.5	B-19030	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		112.5m, cal v.	114.2	B-19031	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	114.2	114.2-118.3m, grey ls partly skrnized (wo, rhod) 114.7-m, cal v.	116.0	B-19032	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
	118.3	118.3-121.0m, dk grey silici alt (ss>>sl) with network qz, py	118.3	B-19033	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
			119.5	B-19034	< 0.1	2.8	0.02	< 0.01	< 0.01	< 0.01	
	121.0	121.0-128.2m, grrey-greenish grey partly skarnized ls (wo)	121.0	B-19035	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
		121.5-122.0m, frac zone	122.0	B-19036	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	B-19L6 X 122.5
		122.0-123.2m, clay-like cal	123.2	B-19037	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
			125.0	B-19038	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
			126.5	B-19039	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	128.2	128.2-132.3m, dk grey silici alt (ss>>sl) with qz veinlets, py	128.2	B-19040	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
		70	130.0	B-19041	< 0.1	4.8	< 0.01	< 0.01	< 0.01	< 0.01	
	132.3	132.3-133.0m, qz v. 45°	132.3	B-19042	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	133.0	45 133.0-136.5m, dk grey qzite 30 with qz veinlets, py	134.5	B-19043	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
	136.5	136.5-139.0m, dk grey silici alt (ss>>sl) with qz veinlets, py	136.5	B-19044	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	138.0	137.6-137.8m, qz v.	138.0	B-19045	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	138.2	138.0-138.2m, cal, act skarn with py	140.0	B-19046	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
	139.0	139.0-139.5m, pinkish grey crs. syano-dt	142.0	B-19047	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	139.5		144.4								
	140.0	140.0-144.4m, grey-whitesh grey ls partry skarnized (wo)	146.6	B-19048	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
	144.4	144.4-150.0m, dk grey silici alt (ss>>sl) with qz veinlets & py	148.0	B-19049	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		50									
	150.0	Bottom of the hole	150.0								

GEOLOGIC CORE LOG OF MJUB-20 (1/9)

1/200

MJUB-20 (1 / 9) 0 m ~ 50 m

Level 222.92 m Direction S20°W
X 69,188.26 m Inclination -80°
Y 92,326.07 m Length 440.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		0-4.2m, sand with pebbles									
	4.2	4.2-9.0m, strongly weathered and frac. dk grey silici. ss									
	9.0	9.0-12.5m, weathered dk grey silici. ss with qz veinlets, py, limo									
	12.5	12.5-12.9m, frac. zone with clay	12.9								
	14.1	12.9-14.1m, brownish grey silici. metaso. with limo	14.1	B-2001	< 0.1	6.8	0.01	< 0.01	< 0.01	< 0.01	
		14.1-16.0m, black alt(sl>>ss) with qz veinlets		B-2002	< 0.1	1.6	0.01	< 0.01	< 0.01	0.01	
	16.0	16.0-17.0m, qz vein	16.0	B-2003	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
	17.0	17.0-19.9m, dk grey silici. alt(ss>>sl) with qz veinlets, limo	17.0	B-2004	< 0.1	7.2	< 0.01	< 0.01	< 0.01	< 0.01	
	18.0	18.0-19.5m, frac zone with clay	18.5	B-2005	< 0.1	3.2	< 0.01	< 0.01	< 0.01	< 0.01	
	18.5										
	19.9	19.9-31.2m, dk grey silici. & weakly skarnized alt (ss>>sl) with py, limo	19.9								
	21.5										
	21.7										
	27.0	27.0-28.8m, frac. zone									
	28.8										
	29.7	29.7-30.5, frac. zone									
	30.5										
	31.2	31.2-37.0m, greenish grey silici. & weakly skarnized metaso. with py, druesy qz	31.2	B-2006	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	32.1										
	32.7	32.1-32.7m, frac. zone	33.0	B-2007	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
			35.0	B-2008	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
	37.0	36.8-37.0m, frac zone	37.0	B-2009	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		37.0-40.0m, dk grey silici. & weakly skarnized alt(ss>sl) with qz, cal veinlets	38.5	B-20010	< 0.1	3.2	< 0.01	< 0.01	< 0.01	< 0.01	
	40.0	40.0-44.2m, dk grey silici. & weakly skarnized alt (ss>sl)	40.0								
	44.2	44.2-45.5m, whitish grey silici. metaso. with druesy qz, cal. & abundant py	44.2	B-20011	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	45.5	45.5-56.4m, dk grey silici. & weakly skarnized alt(ss>sl) with py	45.5								

GEOLOGIC CORE LOG OF MJUB-20 (2/9)

1/200

MJUB--20 (2/9) 50 m ~ 100 m

Level 222.92 m Direction S20°W
X 68,188.26 m Inclination -80°
Y 93,326.07 m Length 440.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		dk grey silici & weakly skarnized alt (ss>sl) with py									
	56.4	65									
		56.4-57.7m, greenish grey silici & skarnized alt (ss>sl)									
	57.7	20 57.3m, qz. cal v, w = 0.3cm, 20°									
		57.7-61.7m, greenish grey silici & weakly skarnized alt (ss>sl)									
	61.7	61.7-66.0m, greenish grey silici & skarnized alt (ss>sl) with qz, py	61.7								
				B-20012	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			64.0								
				B-20013	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	66.0	66.0-68.8m, greenish grey po with py	66.0								B-20L1 T 66.4
	68.8	68.8-73.5m, greenish grey silici & weakly skarnized alt (ss>sl)									
		60									
	73.5	73.5-92.5m, greenish grey silici & weakly skarnized alt (ss>sl) with py									
		55									
		79.2m, cal v, w = 2cm 55° 55									
		83.3m, qz cal v, w = 10cm 75° 75									
		90.8m, qz cal v, w = 7cm 91.2m, qz cal v, w = 1-3cm									
	92.5	33									
		92.5-117.6m, greenish grey silici & weakly skarnized alt (ss>sl) with py									

GEOLOGIC CORE LOG OF MJUB-20 (3/9)

1/200

MJUB-20 (3/9) 100 m ~ 150 m

Level 222.92 m Direction S20°W
X 69,188.26 m Inclination -80°
Y 92,326.07 m Length 440.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		101.0m, brecciated cal, qz v. w = 7cm, 40°	101.0								
				8-20014	< 0.1	< 1	< 0.01	< 0.01	< 0.01	0.01	
			104.0								
		105.6-105.8m, cal- qz v.		8-20015	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			105.8								
				8-20016	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		108.2m, qz cal v. w = 6cm,	108.2								
		110.8m, Mo v. w = 4cm, 25°									
	117.6	117.6-118.8m, dk grey ls with cal veinlets									
	118.8	118.8-129.3m, dk grey weakly silici alt (ss>sl) with py									
	129.3	129.3-134.0m, greenish grey silici & weakly skarnized alt (ss>sl) with qz-cal v & py	129.3								
		129.3m, qz. cal v, w = 1-3cm 30°		8-20017	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		131.3m, qz. (cal) v, w = 10cm, 30°	131.3								
		133.2m, qz. v, w = 10cm, 60°		8-20018	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-20L2 F 133.2
	134.0	134.0-134.6m, frac zone with clay py	134.0								
	134.6	134.6-150.0m, grey silici & weakly skarnized alt (ss>sl) with py									
		147.5m, qz (cal) v, w = 7cm 85°									
	150.0	149.93m, qz v, w = 7cm	149.9								

GEOLOGIC CORE LOG OF MJUB-20 (4/9)

1/200

MJUB-20 (4/9) 150 m ~ 200 m

Level 222.92 m Direction S20°W
X 69,188.26 m Inclination -80°
Y 92,326.07 m Length 440.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
	151.0	150.0-1451.0m, greenish grey silici. & skarnized alt(ss)sl)with qz v. & py	151.0	B-20019	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		151.0-161.1m, greenish grey silici & weak skarnized alt (ss)sl) with qz veinlets & py									
		157.8m, qz v. w = 5cm, 60°	157.8	B-20020	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			159.5	B-20021	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	161.1	161.1-162.3m, blk dol with cal & brecciated qz	161.1								
	162.3	162.3-163.2m, ddk grey ls									
	163.2	163.2-169.9m, dk grey silici alt (ss)sl) with py									
		165.1m, qz v. w = 5cm, 40°									
		166.5m, four. py ore side? v. w = 0.5cm, 10°									B-20L4 X
	168.5	168.5-169.7m, whitesh grey dt									
	169.7	169.9-170.5m, whitesh grey dt									
	170.5	170.5-177.0m, dk grey weakly silici. alt (ss)sl)									
	177.0	177.0-178.0m, greenish grey silici & skarunized metaso. with cal qz & py	177.0	B-20022	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	178.0	178.0-199.9m, dk grey weakly silici & skarnized alt (ss)sl)	178.0								
		181.7m, qz. py v. w = 0.3cm, 10°	182.7	B-20023	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
		182.7-184.2m, abundant cal, side & py v.	184.2	B-20024	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			186.0	B-20025	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			188.0	B-20026	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			189.8								
	192.9	192.9-193.2m, cal (qz) v. 50°	192.9								
			195.0	B-20027	< 0.1	< 1	0.01	< 0.01	< 0.01	< 0.01	
				B-20028	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		197.2-197.6m, greenish grey skarn with cal	197.2								
	199.2	198.2-198.8m, frac zone of skarn zone with clay		B-20029	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	199.9	199.9-201.4m, grey ls veinlets	199.9								

GEOLOGIC CORE LOG OF MJUB-20 (5/9)

1/200

MJUB-20 (5/9) 200 m ~ 250 m

Level 222.92 m Direction S20°W
X 69,188.26 m Inclination -80°
Y 92,326.07 m Length 440.0m

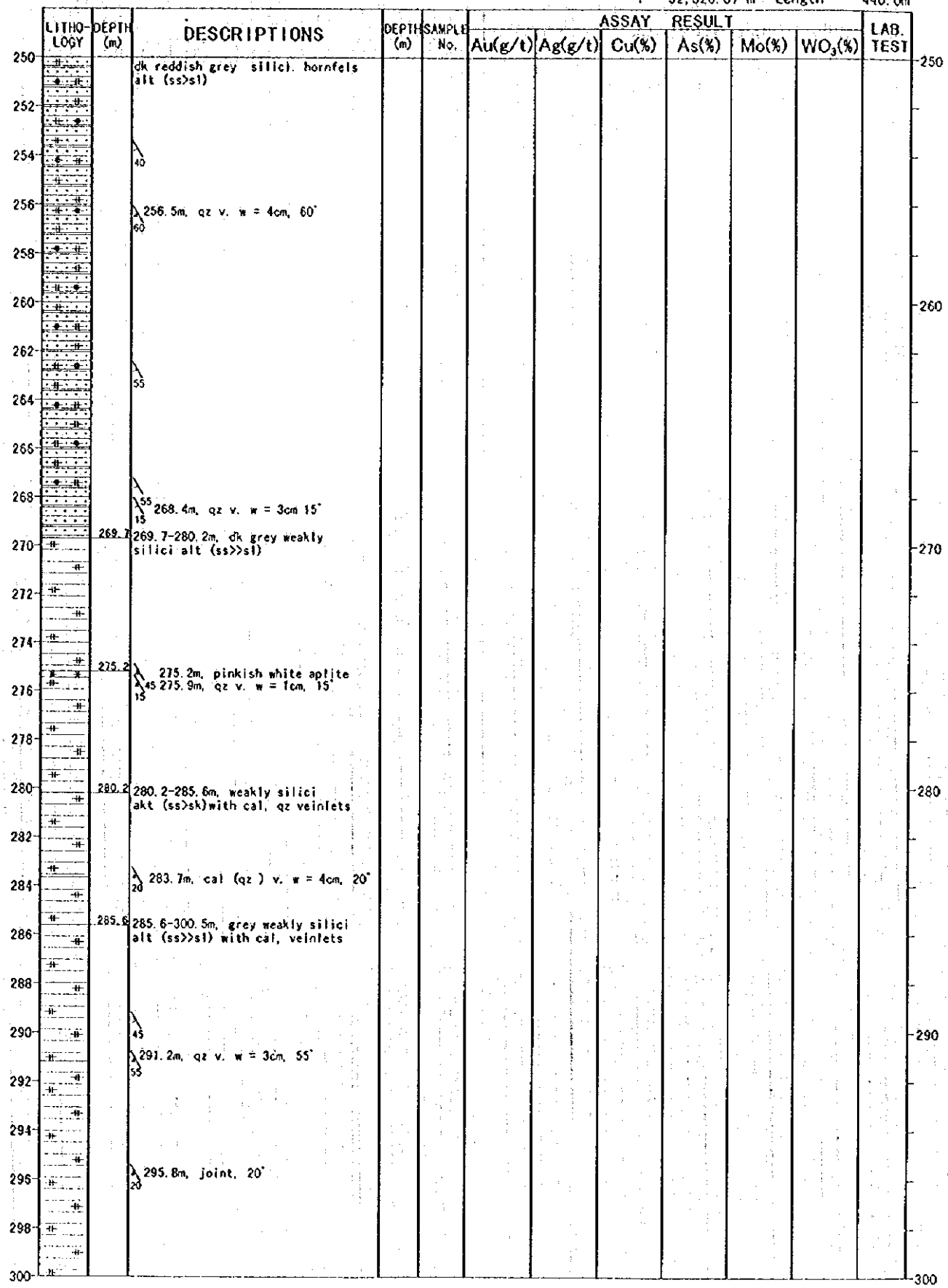
LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
	201.4	201.4-202.8m, grey silici alt (ss.sl) with py									
	202.8	202.8-205.5m, greey ls with cal veinlets									
	205.0										
		205.5-207.6m, blk dol									
	207.6	207.6-214.6m, grey ls with cal veinlets									
	214.6	214.6-216.5m, whitish grey silici. ss with qz, Wo & py									
	216.5	216.5-218.3m, grey ls, partly skarnized (Wo)	216.5	B-20030	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	218.3	218.3.-221.0m, grey ls with cal veinlets	218.3								
	221.0	221.0-222.4m, dk grey silici alt (ss>sl) with py									
	222.4	222.4-225.2m, grey-dk grey dol 65									
	225.2	22.5-226.0m, blk sl with py									
	226.0	226.0-229.9m, grey dol & wo									
	229.9	229.9-246.7m, grey silici alt (ss>sl) with py									
		65									
		236.5m, qz v. w = 7cm, 70° 70									
		55									
		245.3m, qz v. w = 1cm, 45° 45									
	246.7	246.7-269.7m, dk reddish grey silici hornfels alt (ss>sl)									
		45									

GEOLOGIC CORE LOG OF MJUB-20 (6/9)

1/200

MJUB-20 (6/9) 250 m ~ 300 m

Level 222.92 m Direction S20°W
X 69,188.26 m Inclination -80°
Y 92,326.07 m Length 440.0m

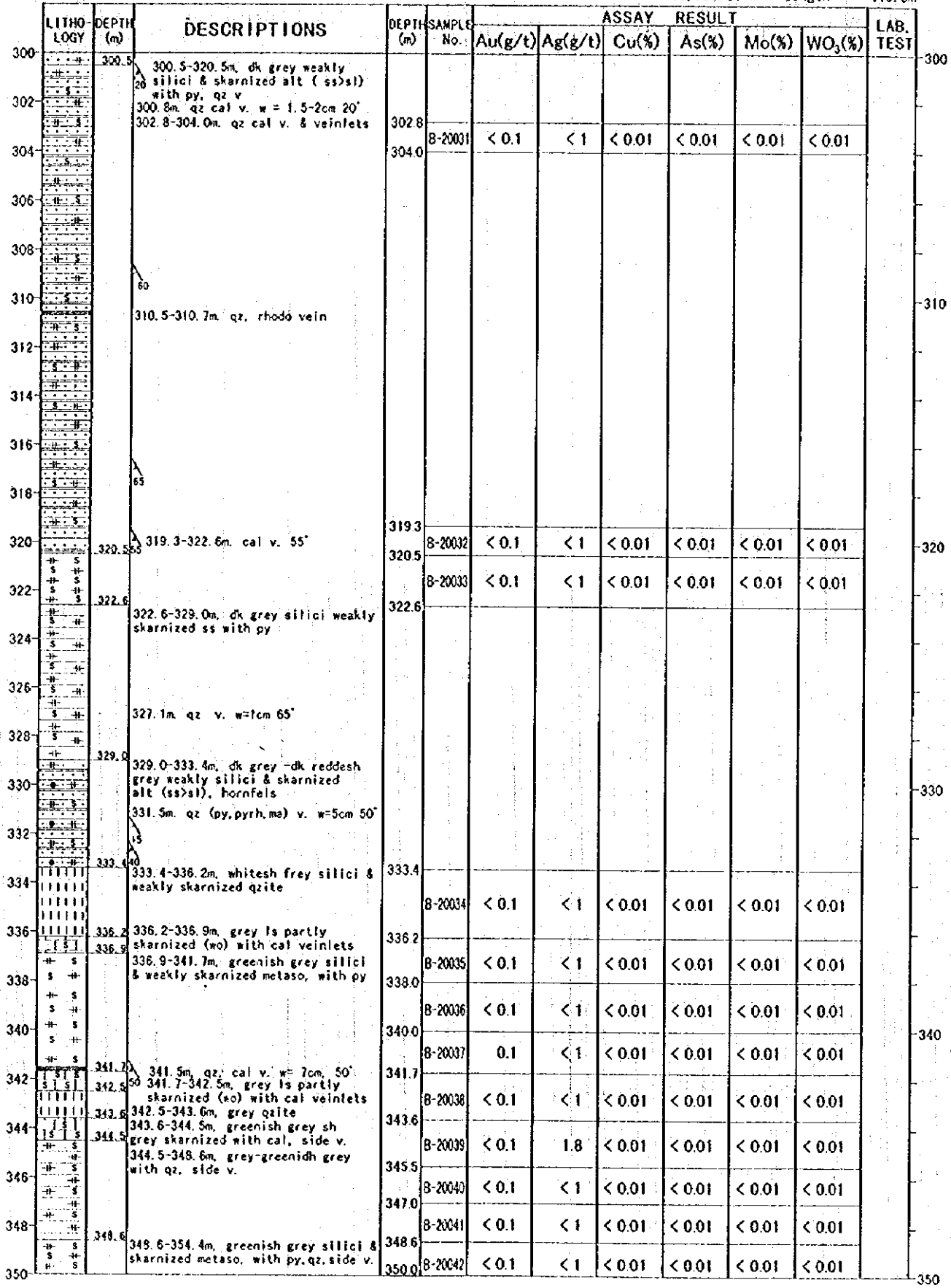


GEOLOGIC CORE LOG OF MJUB-20 (7/9)

1/200

MJUB-20 (7/9) 300 m ~ 350 m

Level 222.92 m Direction S20°W
X 69,188.26 m Inclination -80°
Y 92,326.07 m Length 440.0m



DEPTH (m)	DESCRIPTIONS
300.5	300.5-320.5m, dk grey weakly silici & skarnized alt (ss>sl) with py, qz v
	300.8m qz cal v. w = 1.5-2cm 20°
	302.8-304.0m qz cal v. & veinlets
	310.5-310.7m qz, rhodo vein
320.5	319.3-322.6m cal v. 55°
322.6	322.6-329.0m, dk grey silici weakly skarnized ss with py
	327.1m qz v. w=1cm 65°
329.0	329.0-333.4m, dk grey ~dk reddesh grey weakly silici & skarnized alt (ss>sl), hornfels
	331.5m qz (py, pyrh, ma) v. w=5cm 50°
333.4	333.4-336.2m, whitesh frey silici & weakly skarnized qzite
336.2	336.2-336.9m, grey ls partly skarnized (wo) with cal veinlets
336.9	336.9-341.7m, greenish grey silici & weakly skarnized metaso, with py
341.7	341.5m, qz, cal v. w= 7cm, 50°
342.5	341.7-342.5m, grey ls partly skarnized (wo) with cal veinlets
343.6	342.5-343.6m, grey qzite
344.5	343.6-344.5m, greenish grey sh grey skarnized with cal, side v.
	344.5-348.6m, grey-greenidh grey with qz, side v.
348.6	348.6-354.4m, greenish grey silici & skarnized metaso, with py, qz, side v.

DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
302.8								
304.0	B-20031	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
319.3								
320.5	B-20032	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	B-20033	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
322.6								
333.4	B-20034	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
336.2	B-20035	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
338.0	B-20036	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
340.0	B-20037	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
341.7	B-20038	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
343.6	B-20039	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
345.5	B-20040	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
347.0	B-20041	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
348.6	B-20042	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
350.0								

GEOLOGIC CORE LOG OF MJUB-20 (8/9)

1/200

MJUB-20 (8/9) 350 m ~ 400 m

Level 222.92 m Direction S20°W
X 69,188.26 m Inclination -80°
Y 92,326.07 m Length 440.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
			350.0								
				B-20043	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			352.0								
		353.5m, qz v. w = 6cm, 60°		B-20044	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	354.4	354.4-359.7m, dk grey-reddish grey weakly silici & skarnized alt (ss>sl) hornfels	354.4								
	359.7	359.7-364.3m, dk grey -greenish grey silici & weakly skarnized ss with py, qz, side veinlets	359.7	B-20045	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		362.2m, qz v. w = 3cm, 15°	361.7	B-20046	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		363.6m, qz, side, (cal)v. w = 0.2cm, 55°	363.0	B-20047	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	364.3	364.3-372.0m, dk grey silici & weakly skarnized alt (ss>sl) with qz, cal veinlets	364.3								
	372.0	372.0-374.3m, dk greenish grey weakly skarnized lmp with cal veinlets									
	374.3	374.3-375.6m, grinish grey silici & skarnized metaso with qz, side veinlets	374.3	B-20048	< 0.1	2.4	< 0.01	< 0.01	< 0.01	< 0.01	B-20L8 T
	375.6	375.6-389.3m, dk grey silici & skarnized alt (ss>sl) hornfels	375.6								
		375.8m, cal, side v. w = 0.8cm, 30°	377.2								
		377.2-378.7m, qz v. (chl, act,)		B-20049	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		379.5m, lmp, w = 2cm 15°	378.7								
		387.5m, act, v.									B-20L9 X
	389.3	389.3-398.2m, dk greenish grey silici & skarnized hornfels alt (ss>>sl) with qz veinlets, py, pyrho	389.3	B-20050	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		389.3m, qz, act, v. w = 32cm, 25°	391.0	B-20051	< 0.1	1.6	< 0.01	< 0.01	< 0.01	< 0.01	
		394.2m, qz, py v. w = 2cm, 30°	392.5	B-20052	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		394.5-395.0m, frac zone	394.0	B-20053	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		395.4m, qz, py v. w = 3cm, 45°	395.5	B-20054	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		396.2m, qz, py v. w = 3cm, 60°	397.0	B-20055	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	398.2	398.2m, qz, py v. w = 1cm, 45°	398.2								
		398.2-411.4m, dk greenish grey silici alt (ss>>sl), with py									

GEOLOGIC CORE LOG OF MJUB-20 (9/9)

1/200

MJUB-20 (9/9) 400 m ~ 440 m

Level 222.92 m Direction S20°W
X 69,188.26 m Inclination -80°
Y 92,326.07 m Length 440.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		50									
		60 408.4m, qz, py, pyrho v. w=2cm, 60°									
		409.7-411.4m, qz, act veinlets	409.7								
	411.4	10 411.4m, pinkish white granite, w = 2cm, 10°		B-20066	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		411.1-418.6m, greenish grey silici alt (ss>>sl) qz, act, wo, v. py, pyrho	411.4	B-20067	< 0.1	4.8	< 0.01	< 0.01	< 0.01	< 0.01	
		45 413.4m, qz, diop, py, v. w=4cm, 45°	413.0	B-20068	< 0.1	4.8	< 0.01	< 0.01	< 0.01	< 0.01	
			414.5	B-20069	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	T B-22L10 415.8
		30 416.8m, qz, wo, py, pyrho v. w=3cm, 30°	416.5								B-20L11 416.5 F
		417.9m, qz, diop, act, py v. w=5cm, 30°		B-20070	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-20L12 417.9 P
	418.6	25 418.0m, grnish white grano dt w = 2cm, 25°	418.6								
		418.6-426.4m, dk grey silici alt (ss>>sl) with py									
		35									
		35 422.3m, pinkish grey srs syeno-dt, w = 3cm, 40°									
		425.4-425.6m, grey ls, partly skarnized (wo, diop)									
	426.4	426.4-426.7m, grey-whitesh grey ls partly skarnized (wo)									
	426.7	65 426.7-428.3m, whitish grey dt with py,									
	428.3	428.3-437.6m, dk grey silici alt (ss>>sl) with py									B-20L13 429.1 X
		40 429.1-429.3m, wo, qz v. 40°									
		25 433.5m, cal (qz) py, v. w = 2cm, 25°									
	437.6	45 437.6-440.0m, greenish dk grey silici hornfels ss, with qz, cal, veins	437.6								
	440.0	Bottm of the hole	440.0	B-20071	< 0.1	3.2	< 0.01	< 0.01	< 0.01	< 0.01	

GEOLOGIC CORE LOG OF MJUB-21 (1/3)

1/200

MJUB-21 (1/3) 0 m ~ 50 m

Level 233.23 m Direction S20°W
X 68,310.04 m Inclination -80°
Y 93,003.05 m Length 105.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
		0-7.3m, sand with pebbles									
	7.30	7.3-7.6m, whitish grey silici. ss with limo									
	7.60	7.6-8.1m, whitish grey ls with cal, limo	7.3	B-2101	< 0.1	3.2	< 0.01	< 0.01	< 0.01	< 0.01	
	8.10	20 8.1-9.3m, brownish grey brecciated alt(ss>>sl) with limo	8.1	B-2102	< 0.1	1.2	< 0.01	< 0.01	< 0.01	< 0.01	
	9.30	9.3m, cal vein, w=1cm, 15°	9.3	B-2103	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		15 9.3-11.8m, greenish grey lmp									
	11.80	11.8-16.7m, brownish grey-greenish grey silici. & skarnized metaso. with qz, cal and limo	11.8	B-2104	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			13.0	B-2105	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			14.0	B-2106	< 0.1	2.4	< 0.01	< 0.01	< 0.01	< 0.01	
			15.0	B-2107	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			16.0	B-2108	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	16.90	16.9-22.0m, greenish grey silici. &	17.0	B-2109	< 0.1	3.6	< 0.01	< 0.01	< 0.01	< 0.01	
		60 skarnized alt(ss>>sl) with qz, cal vein & limo	18.0	B-21010	< 0.1	3.2	< 0.01	< 0.01	< 0.01	< 0.01	
			19.0	B-21011	< 0.1	4.4	< 0.01	< 0.01	< 0.01	< 0.01	
		35	20.0	B-21012	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	22.00		21.0	B-21013	< 0.1	1.2	0.01	< 0.01	< 0.01	< 0.01	
		22.0-26.2m, brownish grey-greenish grey silici. & skarnized metaso. with qz	22.2	B-21014	< 0.1	< 1	0.03	< 0.01	< 0.01	< 0.01	
			23.0	B-21015	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
			24.0	B-21016	< 0.1	7.4	0.03	< 0.01	< 0.01	< 0.01	
			25.0	B-21017	< 0.1	< 1	0.03	< 0.01	< 0.01	< 0.01	B-21L1 T, X 25.2
	26.20	26.2-28.8m, greenish dk-grey lmp	26.2	B-21018	< 0.1	3.2	< 0.01	< 0.01	< 0.01	< 0.01	
		45	28.8	B-21019	< 0.1	1.6	0.02	< 0.01	< 0.01	< 0.01	B-21L2 F 29.7
	28.80		30.0	B-21020	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
		28.8-31.2m, greenish grey silici. &	31.2	B-21021	0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
		30 weakly skarnized alt(ss>>sl) with py	32.7	B-21022	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	31.20	31.0-31.2m, cal v.	35.5	B-21023	< 0.1	< 1	0.03	< 0.01	< 0.01	< 0.01	
		31.2-35.5m, greenish dk-grey lmp	37.0	B-21024	< 0.1	1.8	< 0.01	< 0.01	< 0.01	< 0.01	
		32.7-32.9m, fault clay, 55°	38.5	B-21025	< 0.1	1.2	0.03	< 0.01	< 0.01	< 0.01	
		55	39.8	B-21026	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-21L3 F
	35.50		40.8	B-21027	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
		35.5-39.8m, greenish grey-dk grey silici. & skarnized alt(ss>>sl) with py, qz veinlets	42.5	B-21028	0.1	1.2	0.05	< 0.01	< 0.01	< 0.01	
	39.80	39.8-40.8m, greenish dk grey lmp	44.7								
	40.80	70 40.8-44.7m, greenish grey-dk grey silici. & skarnized alt(ss>>sl) with qz, py									
		70									
	44.70	44.7-47.2m, grey weakly skarnized ls with cal									
	47.20										
	47.60	47.2-47.4m, frac zone with clay									
		47.4-47.6m, dk grey silici. & skarnized ss									
		55									
		47.6-52.6m, greenish dk grey lmp									

GEOLOGIC CORE LOG OF MJUB-21 (2/3)

1/200

MJUB-21 (2 / 3) 50 m ~ 100 m

Level 233.23 m Direction S20°W
X 68,310.04 m Inclination -80°
Y 93,003.05 m Length 105.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
	52.6	52.6-58.4m, dk grey -greenish grey silisi & parly skarnized alt(ss>>sl) with qz (cal) veinlets, py	52.6								
				B-21029	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
			54.5								
				B-21030	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
			56.5								
				B-21031	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	B-21L4 P
	58.5	58.4-58.5m, fault clay skarnized (Wo) ls	58.5								
				B-21032	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	B-21L5 X
	60.5	60.5-63.0m, greenish dk grey silisi & weakly skarnized alt (ss>>sl) with qz(cal) veinlets 45°	60.5								
				B-21033	< 0.1	1.6	0.03	< 0.01	< 0.01	< 0.01	
	63.0	63.0-63.3m, frac, zone	62.0	B-21034	< 0.1	< 1	0.02	< 0.01	< 0.01	< 0.01	
		63.3-64.9m, greenish dk grey - whitish grey skarnized ls with cal veinlets	63.3								
				B-21035	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
	64.9	64.9-66.1m, greenish dk grey silisi skarnized alt (ss>>sk) cal v, py	64.9	B-21036	< 0.1	< 1	0.03	< 0.01	< 0.01	< 0.01	B-21L6 X
	66.1	66.1-71.0m, grey partly skarnized (Wo) ls	66.1								
		66.4-66.8m, frac zone		B-21037	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			67.8								
				B-21038	< 0.1	< 1	< 0.01	< 0.01	< 0.01	< 0.01	
			69.8								
	71.0	71.0-72.4m, grey alt (ls>>dk grey ss)									
	72.4	72.4-76.8m, gray ls with cal veinlets									
	76.8	76.8-105.0m, pinkish gray yellowish-grey coarse syeno dt									
		80.4m, qz-sulphide (py, asp) vein, w=1cm, 35°									
		85.3m, qz v, w=0.2cm									
	92.6	92.6-94.2m, frac, zone									
	94.2										
	94.8	94.8-96.5m, frqac zone									
	96.5										
		97.5-98.0m, frac zone									
		98.5-99.8m, frac zone									

GEOLOGIC CORE LOG OF MJUB-21 (3/3)

1/200

MJUB-21 (3/ 3) 100 m ~ 105 m

Level 233.23 m Direction S20°W
X 68,310.04 m Inclination -80°
Y 93,003.05 m Length 105.0m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT Au(g/t)	Ag(g/t)	Cu(%)	As(%)	Mo(%)	WO_3(%)	LAB. TEST
	105.0	105.0m Bottom of the hole									

Appendix 2.Result of Laboratory Works

Appendix 2-1 List of Laboratory Works

Items	Quantity		Total
	Trench survey	Drilling survey	
	Bulutkan district	Bulutkan district	
1. Thin section	20	20	40
2. Polished section	18	18	36
3. X-ray diffraction analysis	20	30	50
4. Fluid inclusion test	19	16	35
5. Ore analysis (Au, Ag, Cu, As, Mo, WO_3)	652	562	1,214
Total	729	646	1,375

Appendix 2-2 Microscopic Observations of the Thin Sections(1/2)

No.	Sample No.	Location	Rock name	Primary minerals															Secondary minerals								Remarks
				Qz	Pl	Kf	Bi	Ho	Cpx	Sph	Ap	C	To	Ms	Zr	Ga	Cord	Hem	Op	Qz	Chl	Act	Tr	Ep	Pr	Ser	C	
1	T-11 L 3	T-11 88.8m	Pyroxene skarn						○														・				
2	T-11 L 4	T-11 155.0m	Hornblende skarn	・	△		・	○		・	・	・	・	△							・							With corundum-biotite hornfels
3	T-12 L 1	T-12 4.0m	Hornblende-biotite granodiorite	○	○	△	△	△			・																・	brecciated
4	T-12 L 4	T-12 38.0m	Porphyrite		○		(・)	(△)										・	・		・					△		Sericitized
5	T-13 L 2	T-13 75.0m	Aplitic biotite granite	○	○	○	・								・						・							
6	T-14 L 2	T-14 74.0m	Sericitized granite	○	△	○	(・)				・		・	・							・					△		Qz : sutured texture
7	T-16 L 3	T-16 75.0m	Biotite-muscovite hornfels	○	○		・						・	△				・	(・)		・							ss-sh alternation, limonitized
8	T-18 L 1	T-18 44.5m	Biotite-muscovite hornfels	○	△		・			・				△					(・)									Corundum-bg
9	T-18 L 5	T-18 90.0m	Pelitic phyllite	○	△									△					△									Op : graphite
10	T-19 L 1	T-19 33.5m	Chlorite-muscovite schist	○	△									○					△		△							Microcorrugation
11	T-19 L 3	T-19 35.0m	Muscovite hornfels	○	△		(・)							○														
12	T-19 L 5	T-19 41.0m	Biotite granite	○	△	○	・														・							Fine-grained
13	T-20 L 3	T-20 43.0m	Muscovite hornfels	○	△						・		・	△					・									Limonitized
14	T-23 L 2	T-23 36.0m	Crystalline limestone	△								○							・									
15	T-23 L 3	T-23 78.5m	Pyroxene skarn						○		・	・											・					
16	T-26 L 3	T-26 36.3m	Quartzite	○															・									Relict bedding structure
17	T-26 L 3	T-26 50.0m	Cordierite-biotite hornfels	△	△		○										○		・		・							Cordierite : pinitized
18	T-28 L 1	T-28 30.3m	Crystalline limestone									○							・									
19	T-28 L 2	T-28 89.0m	Lamprophyre		○	○	(△)	○	・	・	・																・	
20	T-29 L 1	T-29 53.5m	Quartz vein	○														・	・									Limonitized

Abbreviations

Qz: quartz, Pl: plagioclase, Kf: K-feldspar, Bi: biotite, Ho: hornblende, Cpx: clinopyroxene, Sph: sphene, Ap: apatite
C:carbonate, To: tourmaline, Ms: muscovite, Zr: zircon, Ga: garnet, Cord:cordierite, Hem: hematite, Op: opaque mineral
Chl: chlorite, Act: actinolite, Tr:tremolite, Pr:prehnite, Ser:sericite
Circle: abundant, Triangle: common, Dot: minor constituents
( ) : pseudomorph

Appendix 2-2 Microscopic Observations of the Thin Sections(2/2)

No.	Sample No.	Location	Rock name	Primary minerals														Secondary minerals								Remarks
				Qz	Pl	Kf	Bi	Ho	Cpx	Sph	Ap	C	To	Ms	Zr	Ga	Hem	Op	Qz	Chl	Act	Tr	Ep	Pr	Ser	C	
21	B- 8 L 5	MJUB-8 34.2m	Pyroxene skarn						○		△							△	•	•		△				•	
22	B- 8 L 7	MJUB-8 92.7m	Quartz syenite porphyry	△	△	○	(△)				•							•							△	•	Sericitized
23	B- 9 L 4	MJUB-9 28.4m	Pyroxene skarn						○											△		△				△	Olivine-bg
24	B- 10 L 2	MJUB-10 58.0m	Biotite-hornblende diorite	•	○		○	○		•								•		•					•		
25	B- 11 L 7	MJUB-11 117.9m	Garnet-pyroxene skarn						△	•		○				△		•	•					•	•		•	With Albite-calcite vein
26	B- 11 L 8	MJUB-11 127.1m	Lamprophyre	△	○		○	○		•								•		•						•	With hornblende granite Xenolith
27	B- 12 L 3	MJUB-12 73.0m	Garnet-pyroxene hornfels	○					○			○				△		•		•							Chert-limestone alternation origin
28	B- 12 L 7	MJUB-12 171.2m	Porphyrite	△	○		(△)				•							•		•					△	•	Sericitized
29	B- 13 L 5	MJUB-13 83.5m	Hornblende syenite	•	△	○	•	△		•	•									•						•	
30	B- 14 L 1	MJUB-14 10.3m	Porphyrite	△	○		(△)				•							•		•					△	•	Sericitized
31	B- 16 L 4	MJUB-16 49.0m	Biotite hornfels	△	○		○	•	•									•		•					•		Pelitic rock origin
32	B- 17 L 2	MJUB-17 20.4m	Porphyrite	•	○		(△)	(△)										•		•					△	•	Sericitized
33	B- 18 L 2	MJUB-18 32.8m	Chlorite-muscovite hornfels	○														•		△					△	•	With pyrite-gypsum-calcite vein
			Hornblende andesite (dyke)		○			(△)										•		△					•	△	
34	B- 18 L 8	MJUB-18 77.8m	Porphyrite	•	○		△	(△)												△					•	•	
35	B- 19 L 4	MJUB-19 97.7m	Augite-hornblende-biotite-quartz syenite	△	•	○	○	○	△		•							•		•							
36	B- 20 L 2	MJUB-20 66.4m	Porphyrite		○		(△)	(△)		•								•		•					•	•	
37	B- 20 L 8	MJUB-20 373.8m	Lamprophyre	•	○		•	○		•								•		•	•					△	
38	B- 20 L 10	MJUB-20 415.3m	Garnet-biotite-hornblende schist	△	△		○	○								△							△				With ptygmatic quartz vein
39	B- 21 L 1	MJUB-21 25.2m	Chlorite-muscovite schist	○			(△)							○				•		△			•			•	Rutile(?)-bg
40	B- 21 L 3	MJUB-21 40.0m	Altered hornblende andesite	•	○			(△)												△						△	With flow structure

Abbreviations

Qz: quartz, Pl: plagioclase, Kf: K-feldspar, Bi: biotite, Ho: hornblende, Cpx: clinopyroxene, Sph: sphene, Ap: apatite
C:carbonate, To: tourmaline, Ms: muscovite, Zr: zircon, Ga: garnet, Hem: hematite, Op: opaque mineral
Chl: chlorite, Act: actinolite, Tr:tremolite, Pr:prehnite, Ser:sericite
Circle: abundant, Triangle: common, Dot: minor constituents
( ) : pseudomorph

Appendix 2-3 Photomicrographs of the Thin Sections

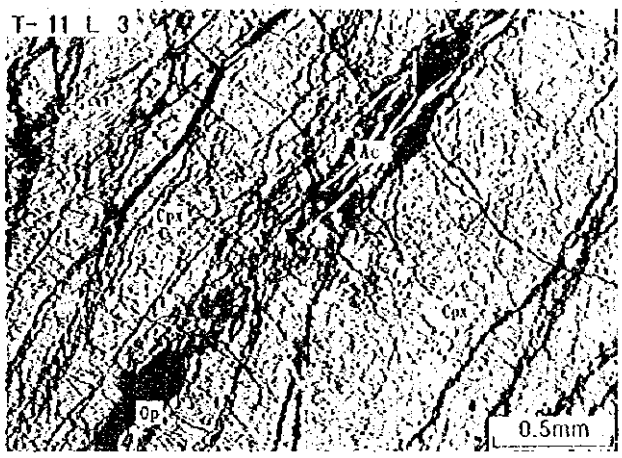
Abbreviations

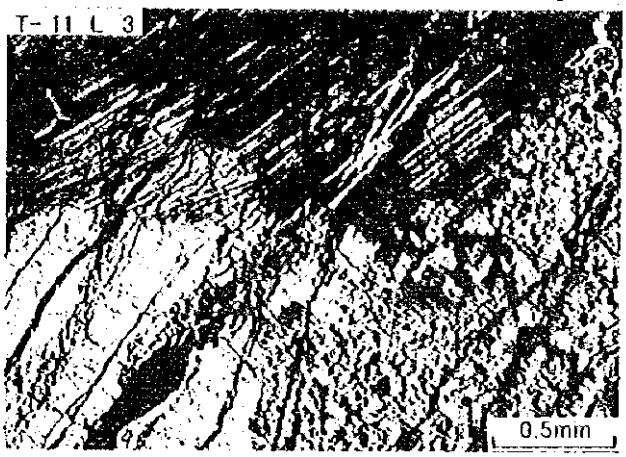
Ac : Actinolite	Lim : Limonite
Ap : Apatite	Ms : Muscovite
Au : Augite	Op : Opaque mineral
Bi : Biotite	Pl : Plagioclase
C : Carbonate	Qz : Quartz
Ch : Chlorite	Ru : Rutile
Cord: Cordierite	Ser : Sericite
Cpx : Clinopyroxene	Sph : Sphene
Ga : Garnet	To : Tourmaline
Ho : Hornblende	Tr : Tremonite
Kf : K-feldspar	( ): Pseudomorph

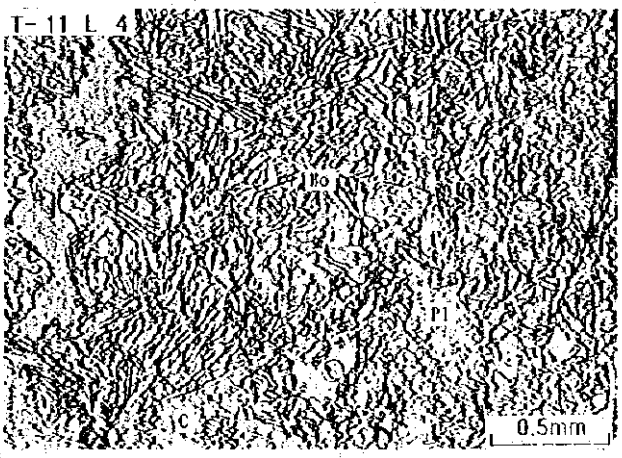
Appendix 2-3 Photomicrographs of the Thin Sections(1/10)

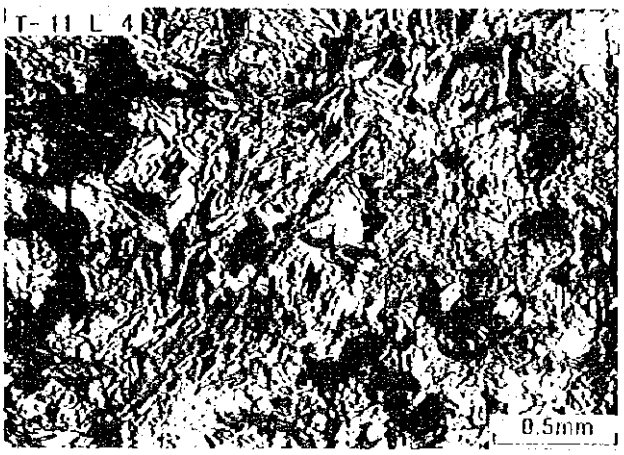
Plane polarized light

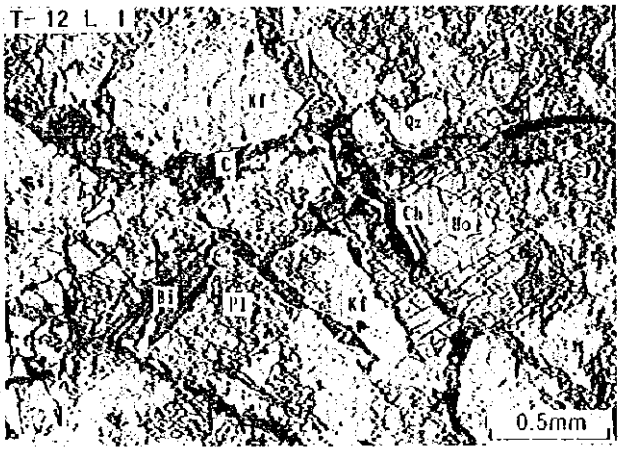
Crossed polarized light

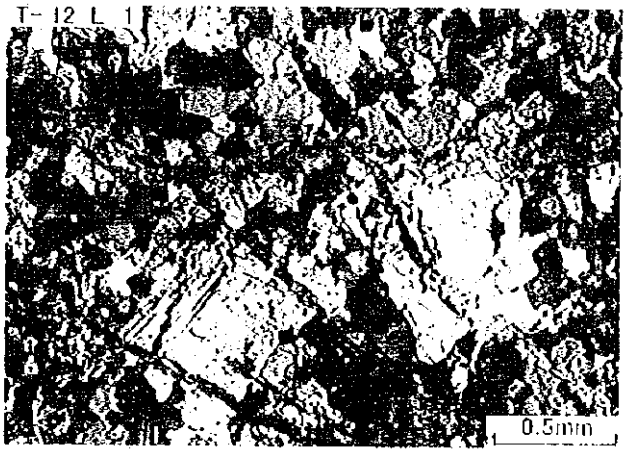


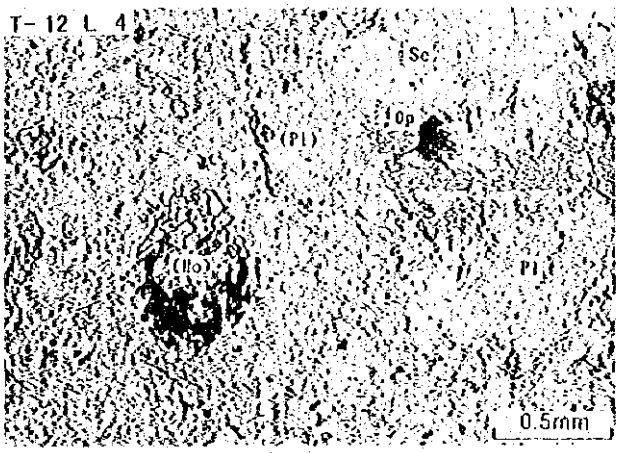


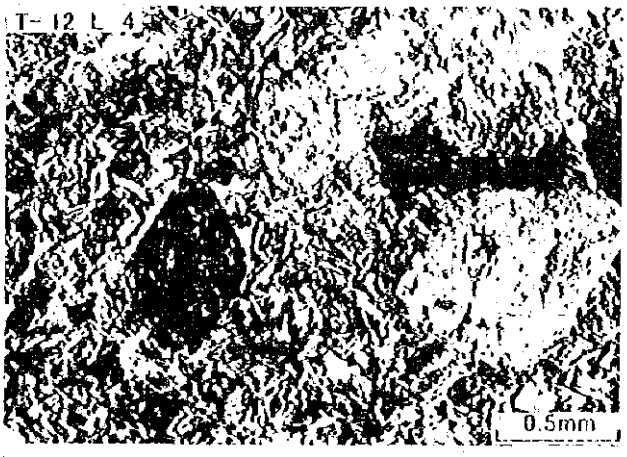






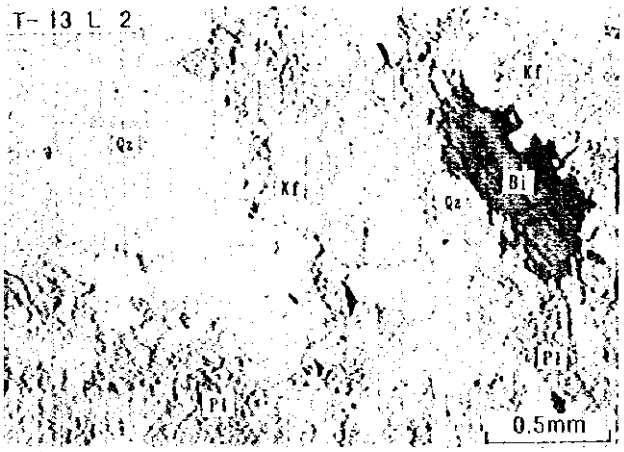


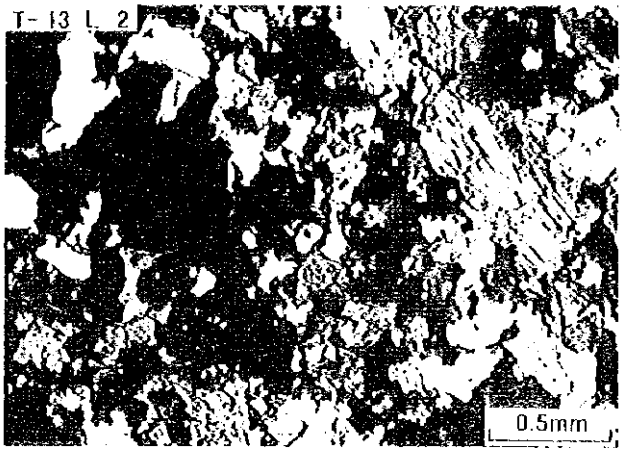


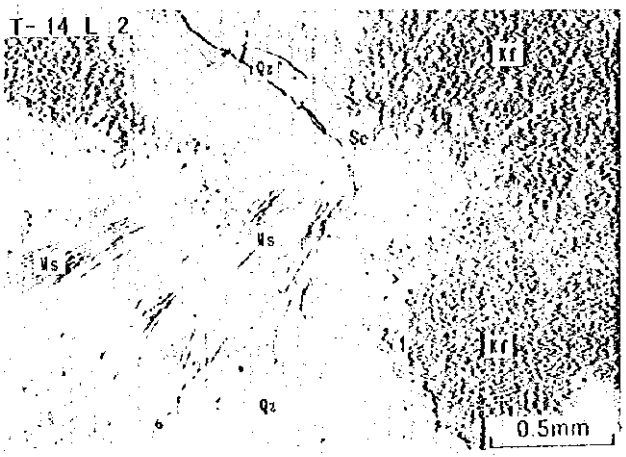


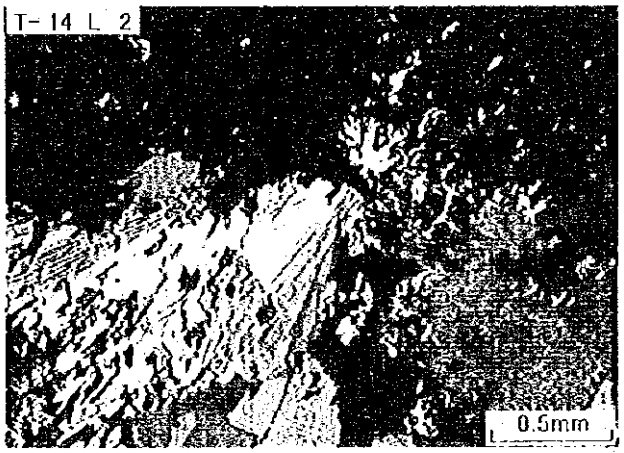
Plane polarized light

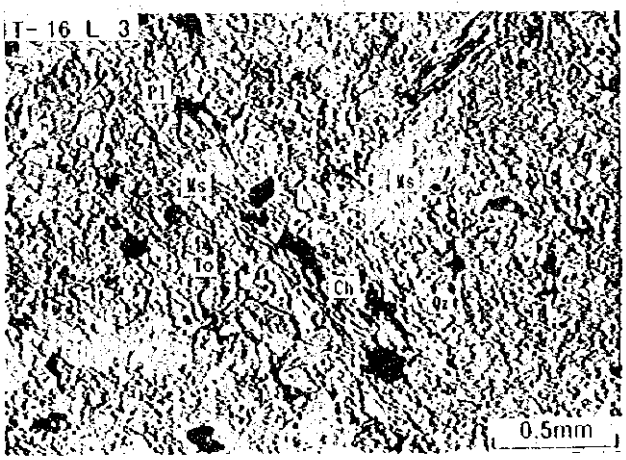
Crossed polarized light

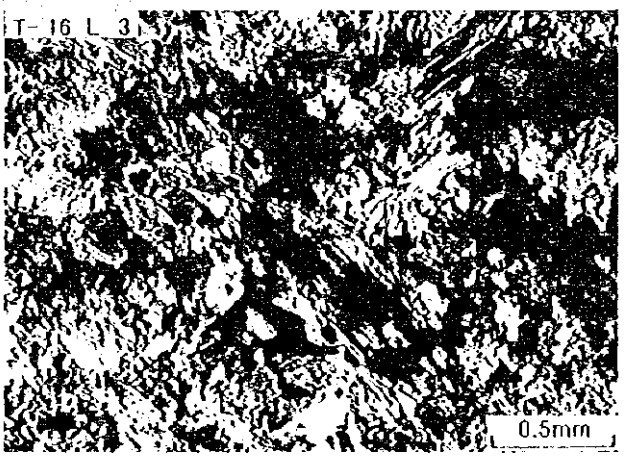


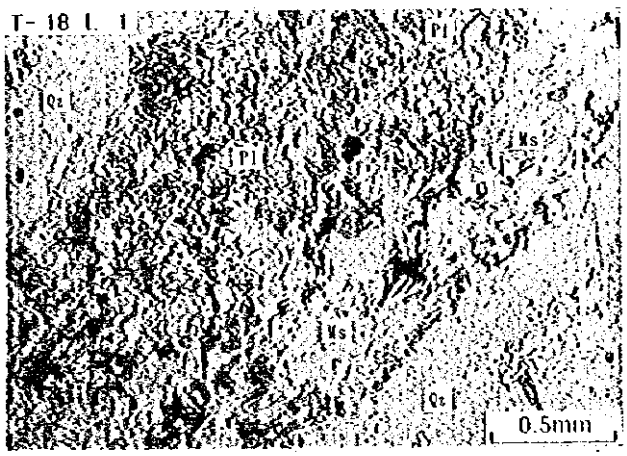


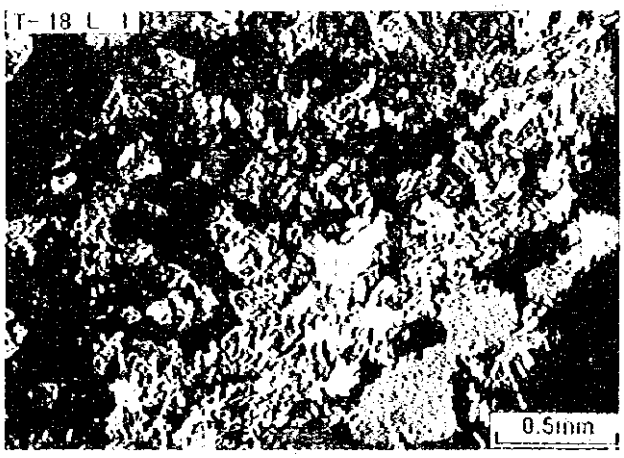






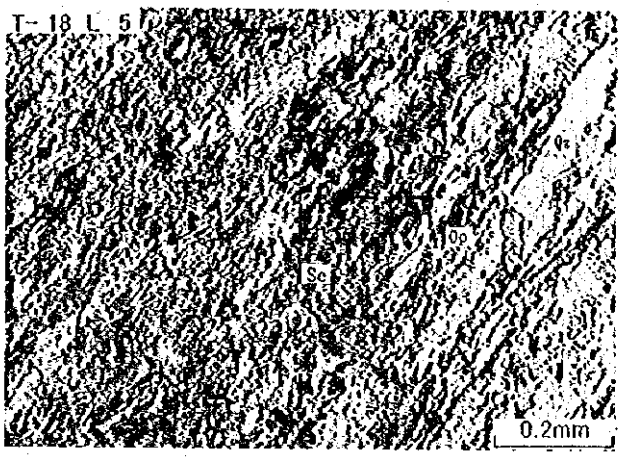




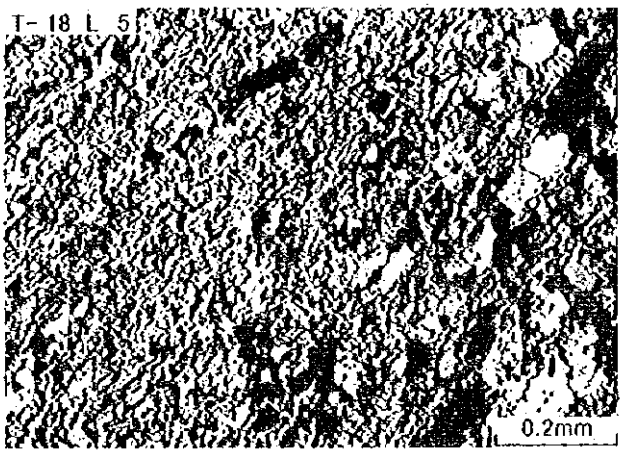


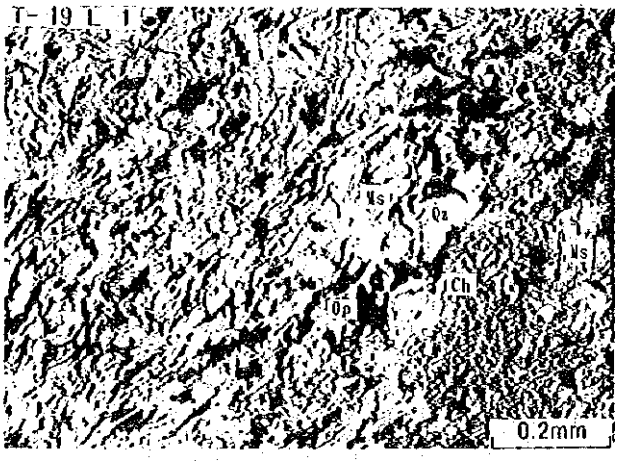
Appendix 2-3 Photomicrographs of the Thin Sections(3/10)

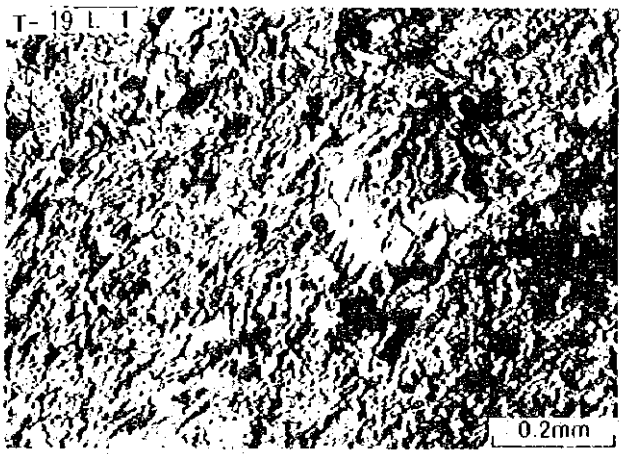
Plane polarized light

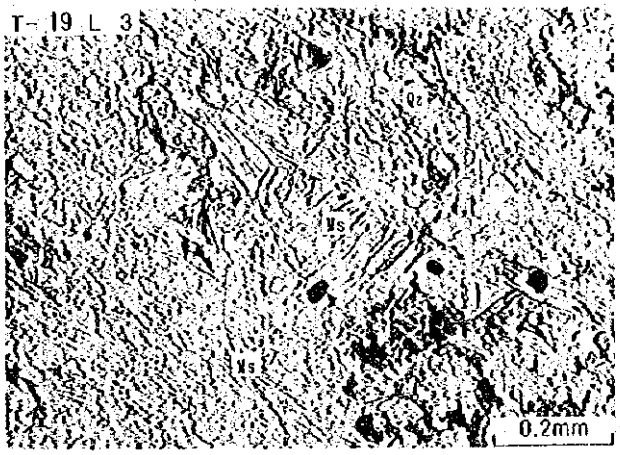


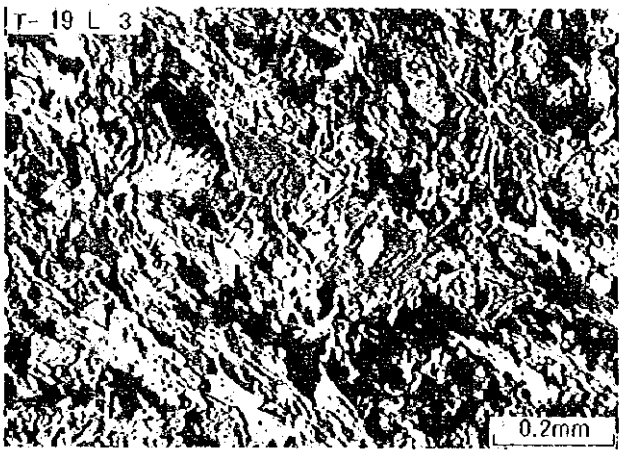
Crossed polarized light

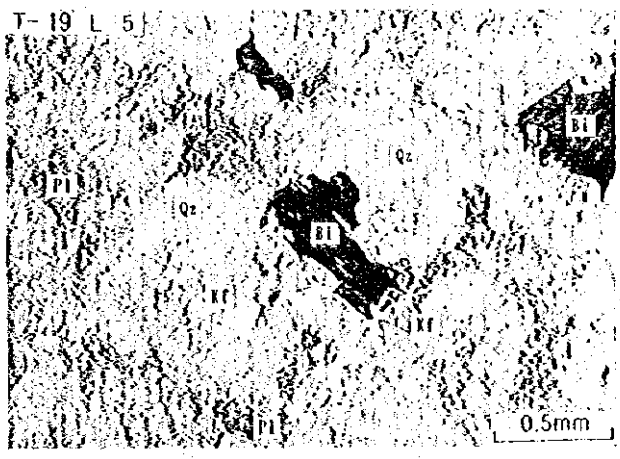


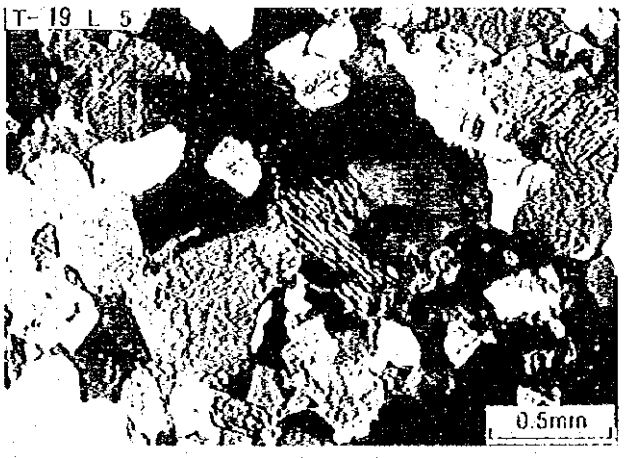












Appendix 2-3 Photomicrographs of the Thin Sections(4/10)

Plane polarized light

Crossed polarized light