

App. 6-7 Summary of the Drilling Operation on MJP-13

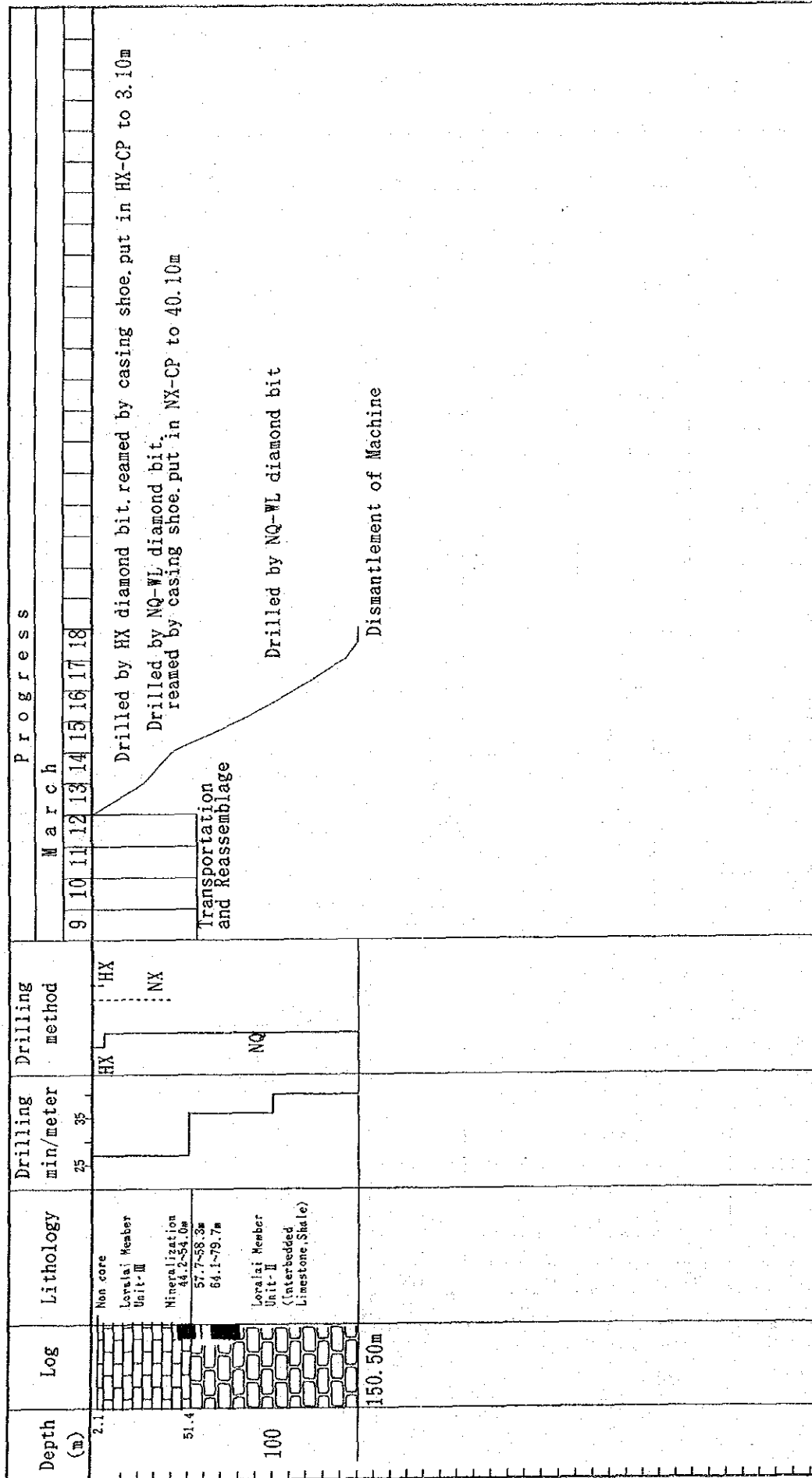
Operation	Survey Period				Total man day		
	Period	Days	Work day	Off day	Engineer	Worker	
Preparation	19.3.1989 ~ 20.3.1989	2	2	0	8	24	
Drilling	21.3.1989 ~ 4.4.1989	15	Drilling	15	0	60	181
			Recovering				
Removing	5.4.1989 ~ 5.4.1989	1	1	0	4	12	
Total	19.3.1989 ~ 5.4.1989	18	18	0	72	217	
Drilling length	350.00 m		Overburden	2.70m			
Length planned			Core length	Core recovery of 100 m hole			
Increase or Decrease in length	-			343.50m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)
Length drilled	351.00 m	Core recovery	98.6	0 ~ 100	97.2	97.2	
				100 ~ 200	97.9	97.5	
				200 ~ 300	100	98.3	
				300 ~ 351	100	98.6	
Working hours	h	%	%	Efficiency of Drilling			
Drilling	217'40'	60.5	56.1	Total m/work period(m/day)	351.00 m/15 days (23.40m/day)		
Other working	128'10'	35.6	33.0	Total m/total shift (m/shift)	351.00 m/43 shifts (8.16m/shift)		
Recovering	14'10'	3.9	3.7	Drilling length/bit(each sized bit)			
Total	360'00'	100	92.8	Bit size	HX	NQ	BQ
Reassemblage	20'00'		5.1	Drilled length	4.10m	206.30m	140.60
Dismantlement	8'00'		2.1	Core length	1.00m	201.90m	140.60
Water transportation	(168'00')						
Road construction and others							
G.Total	388'00'		100				
Casing pipe inserted	Meterage		Recovery				
Size	Meterage (m)	Meterage drilling length (%)		(%)			
H X	3.10	0.9	100				
N X	63.10	18.0	100				
B X	210.40	60.1	100				

App. 6-8 Summary of the Drilling Operation on MJP-14

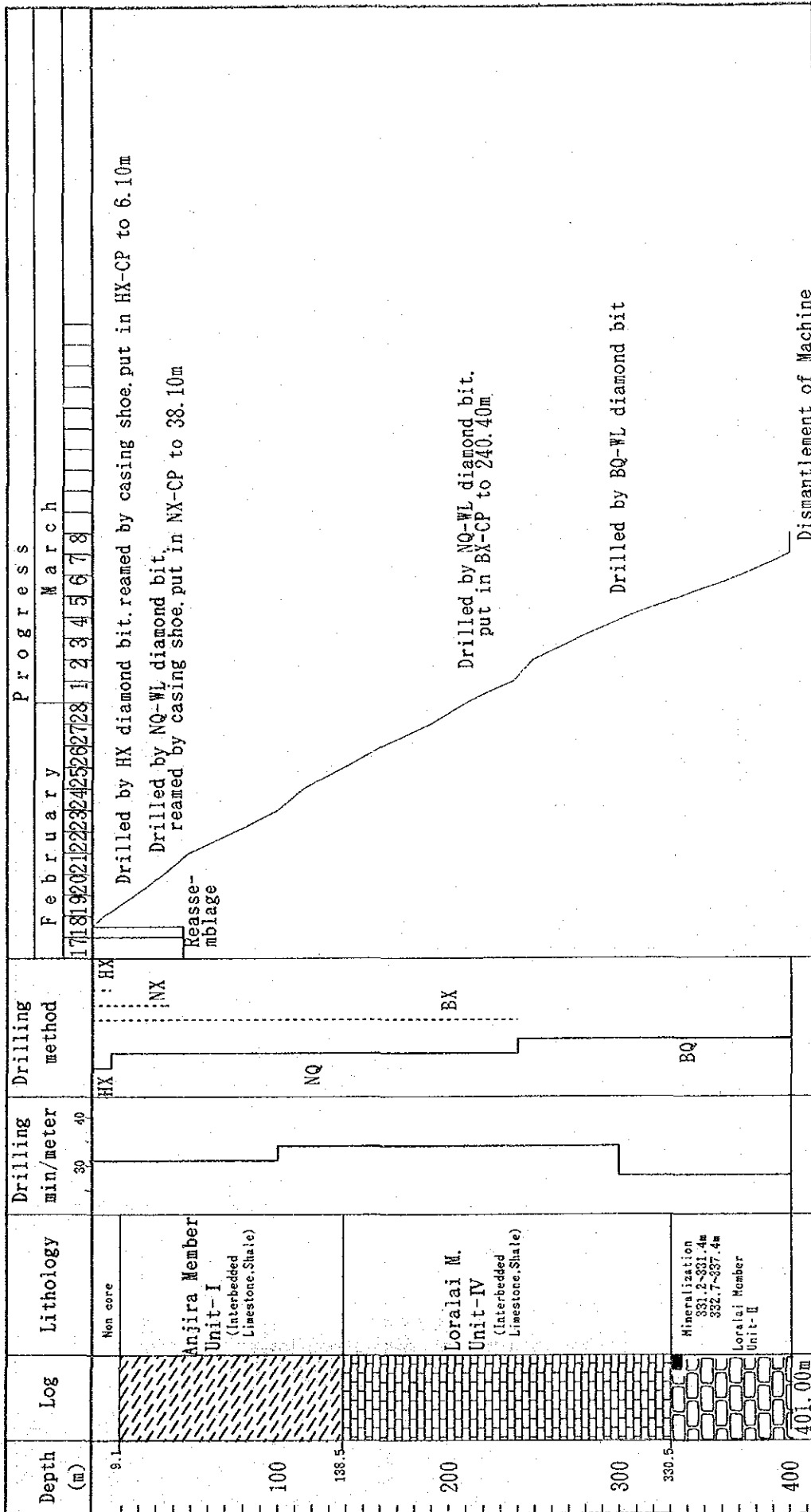
Operation	Survey Period				Total man day		
	Period	Days	Work day	Off day	Engineer	Worker	
Preparation	12.5.1989 ~ 13.5.1989	1.5	1.5	0	6	18	
Drilling	14.5.1989 ~ 31.5.1989	14	Drilling	0	75	216	
			Recovering				
Removing	1.6.1989 ~ 1.6.1989	1	1	0	1	12	
Total	12.5.1989 ~ 1.6.1989	16.5	16.5	0	82	246	
Drilling length	Core recovery of 100 m hole						
Length planned	350.00 m	Overburden	4.10m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)	
Increase or Decrease in length	-	Core length	337.60m	0 ~ 100	92.3	92.3	
Length drilled	351.00 m	Core recovery	97.3	100 ~ 200	98.2	95.3	
				200 ~ 300	99.8	96.8	
				300 ~ 351	100	97.3	
Working hours	h	%	%	Efficiency of Drilling			
Drilling	241'30'	56.2	53.7	Total m/work period(m/day)	351.00 m/14 days (25.07m/day)		
Other working	153'40'	35.7	34.2	Total m/total shift (m/shift)	351.00 m/50 shifts (7.02m/shift)		
Recovering	34'50'	8.1	7.7	Drilling length/bit(each sized bit)			
Total	430'00'	100	95.6	Bit size	HX	NQ	BQ
Reassemblage	14'00'		3.1	Drilled length	6.10m	204.30m	140.60
Dismantlement	6'00'		1.3	Core length	0.20m	197.00m	140.40
Water transportation and others	(191'00')						
G.Total	450'00'		100				
Casing pipe inserted	Meterage drilling × 100 length (%)		Recovery (%)				
Size	Meterage (m)						
H X	5.10	1.5	100				
N X	36.10	10.3	100				
B X	210.40	60.1	85				

App. 6-9 Summary of the Drilling Operation on MJP--15

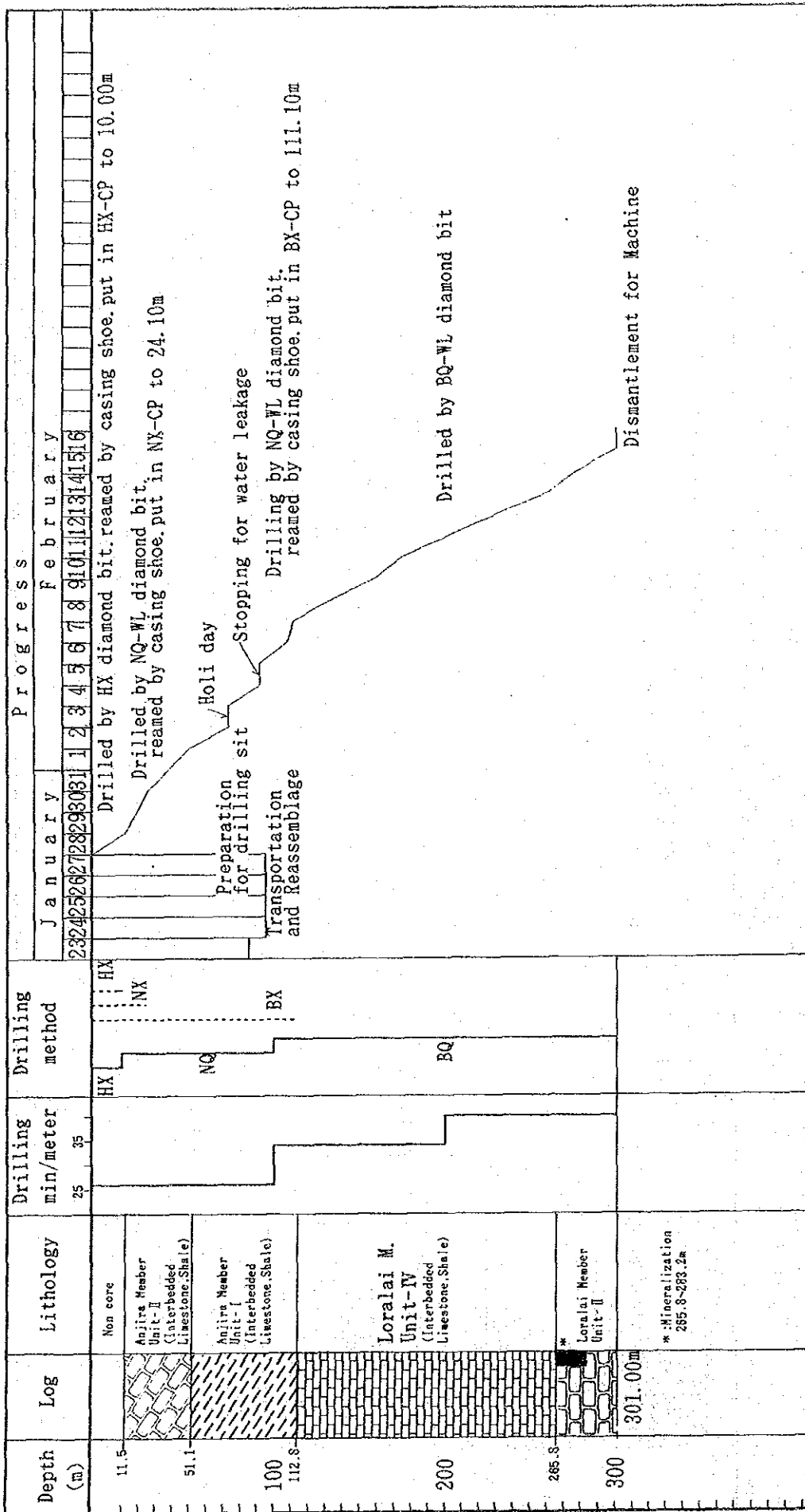
	Survey Period				Total man day	
	Period	Days	Work day	Off day	Engineer	Worker
Operation			days	days	man	man
Preparation	6.4.1989 ~ 11.4.1989	6	6	0	24	104
Drilling	12.4.1989 ~ 6.5.1989	25	Drilling			
			16	0	64	188
			Recovering			
			9	0	36	108
Removing	7.5.1989 ~ 12.5.1989	5.5	0.5	5	2	6
Total	6.4.1989 ~ 12.5.1989	36.5	31.5	5	126	406
Drilling length			Core recovery of 100 m hole			
Length planned	300.00 m	Overburden	3.10m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)
Increase or Decrease in length	-	Core length	289.10m	0 ~ 100	91.3	91.3
				100 ~ 200	99.4	96.8
Length drilled	300.20 m	Core recovery	%	200 ~ 300.2	98.2	97.3
			97.3			
Working hours	h	%	%	Efficiency of Drilling		
Drilling	173°40'	29.7	26.9	Total m/work period(m/day)	300.20 m/16 days (18.76m/day)	
Other working	150°10'	25.7	23.3	Total m/total shift (m/shift)	300.20 m/44 shifts (6.82m/shift)	
Recovering	260°10'	44.6	40.3	Drilling length/bit(each sized bit)		
Total	584°00'	100	90.5	Bit size	HX	NQ
Reassemblage	57°00'		8.9	Drilled length	4.00m	176.10m
Dismantlement	4°00'		0.6	Core length	0.50m	170.30m
Water transportation	(410°00')					
Road construction and others						
G.Total	645°00'		100			
Casing pipe inserted						
Size	Meterage (m)	Meterage drilling × 100 (%)	Recovery (%)			
H X	7.60	2.5	100			
N X	48.10	16.0	100			
B X	253.96	84.6	100			



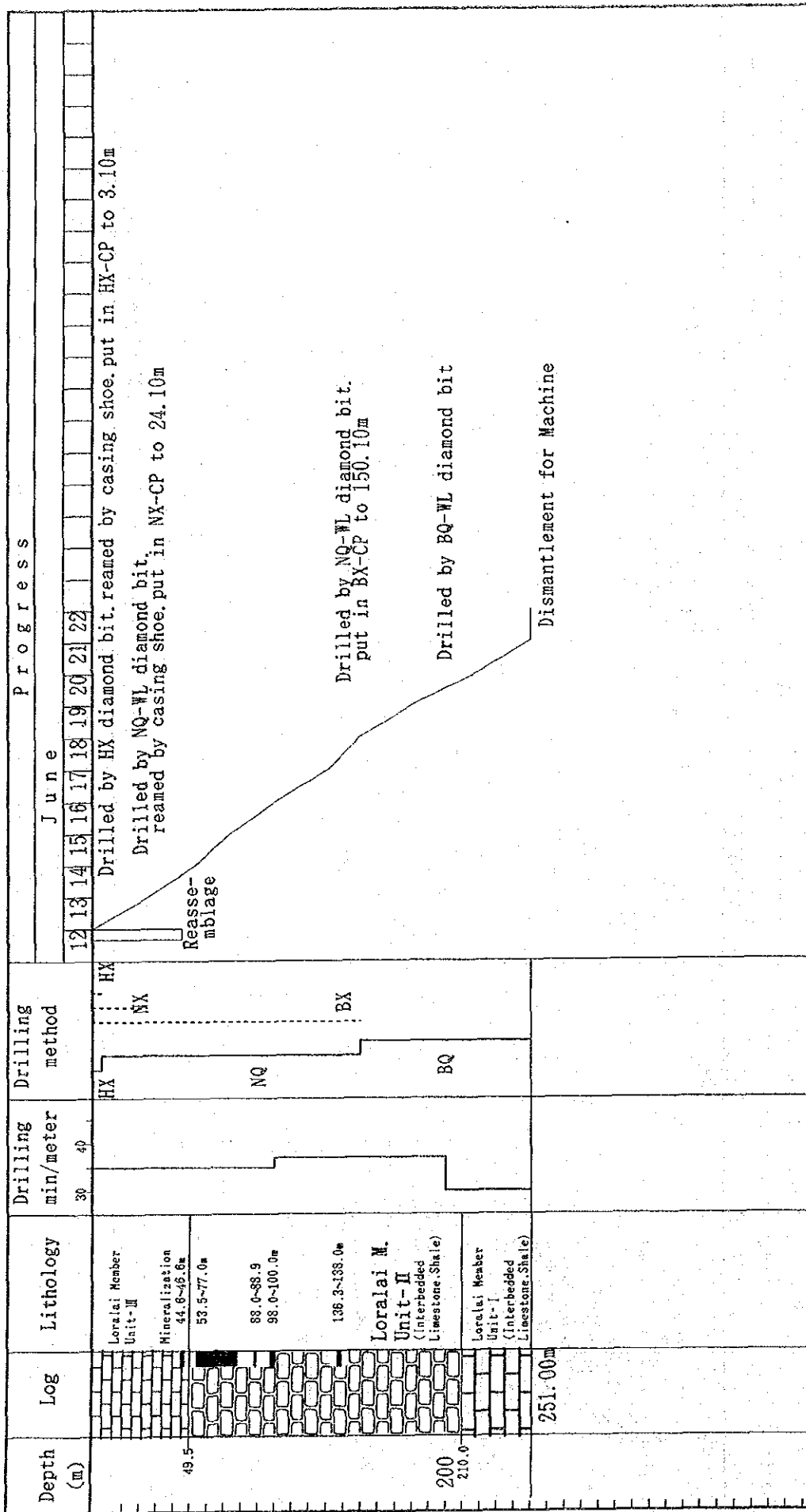
App. 7-1 Drilling Progress of MJP-7



App. 7-2 Drilling Progress of MJP-8



App. 7-3 Drilling Progress of MJP-9



App. 7-5 Drilling Progress of MJP-II

Progress															
June															
Depth (m)	Log	Lithology	Drilling min/meter	Drilling method	2	3	4	5	6	7	8	9	10	11	12
100		Loralai Member Unit-III Mineralization 40.4-48.6m 46.5-71.3m	25	HX											
		78.7-80.4m Loralai Member Unit-II (Interbedded Limestone, Shale)	35	NQ											
151.00m															

Drilled by HX diamond bit, reamed by casing shoe, put in HX-CP to 1.60m

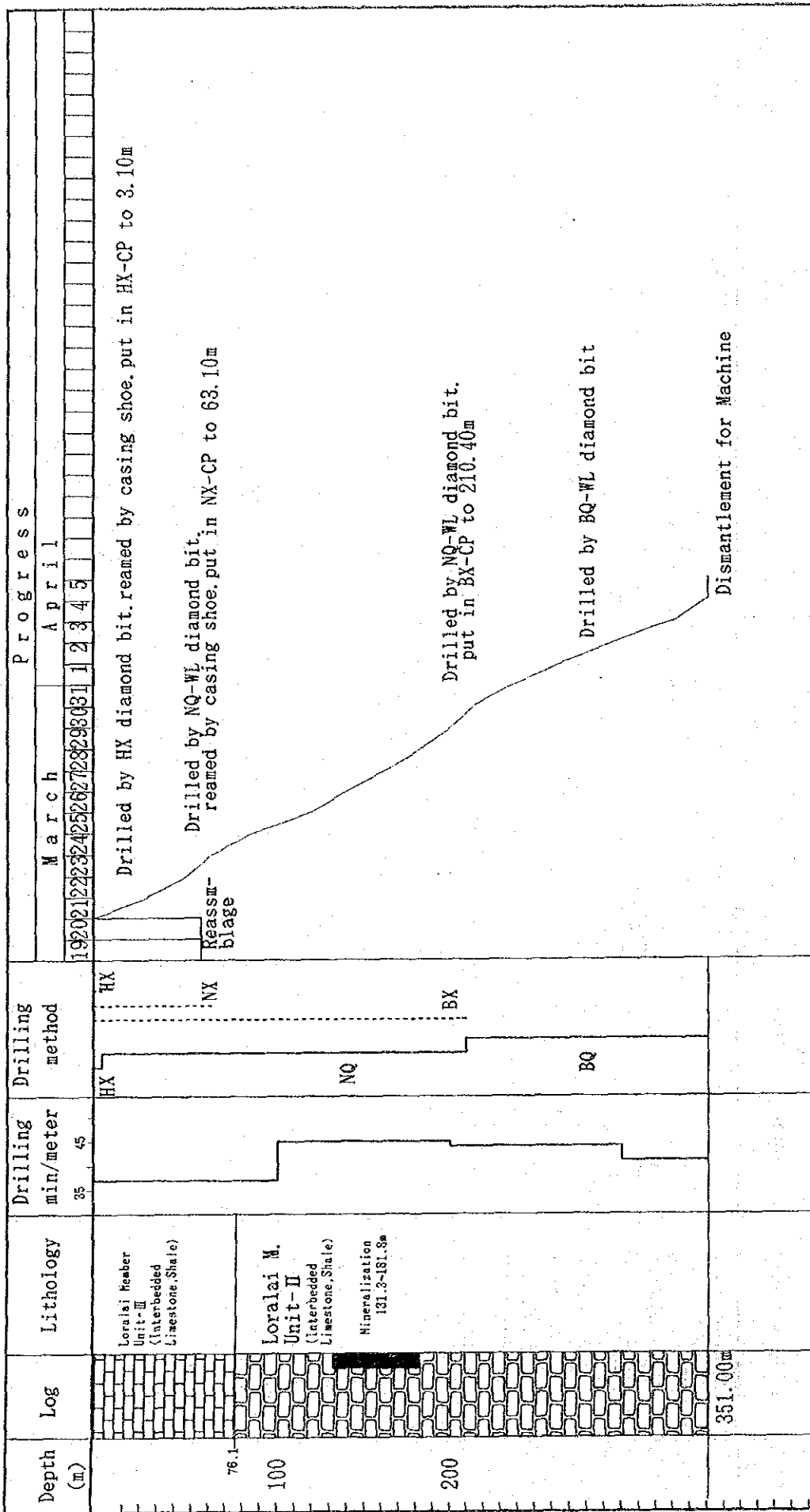
Drilled by NQ-WL diamond bit, reamed by casing shoe, put in NX-CP to 27.10m

transportation and reassemblage

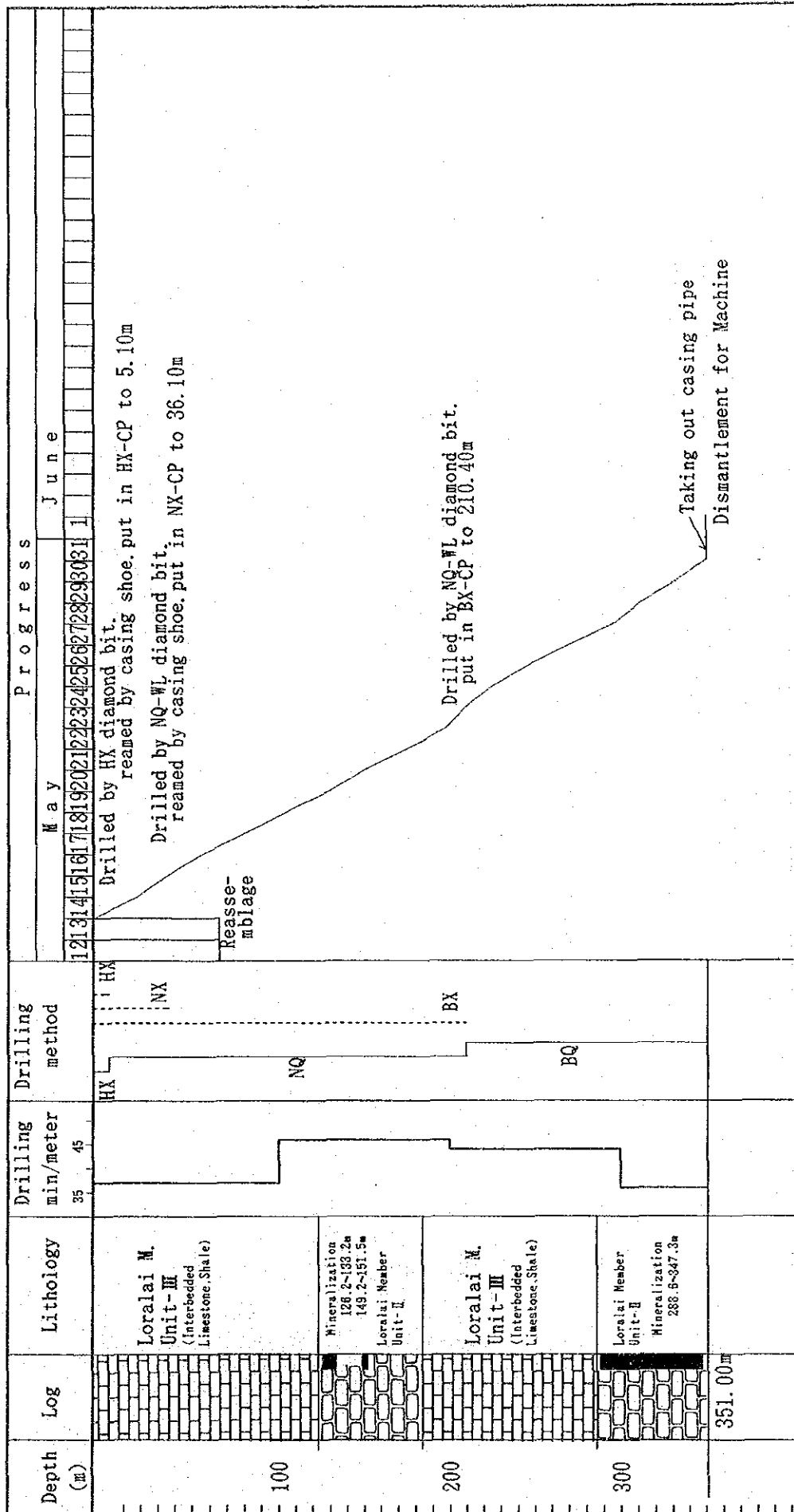
Drilled by NQ-WL diamond bit

Dismantlement for Machine

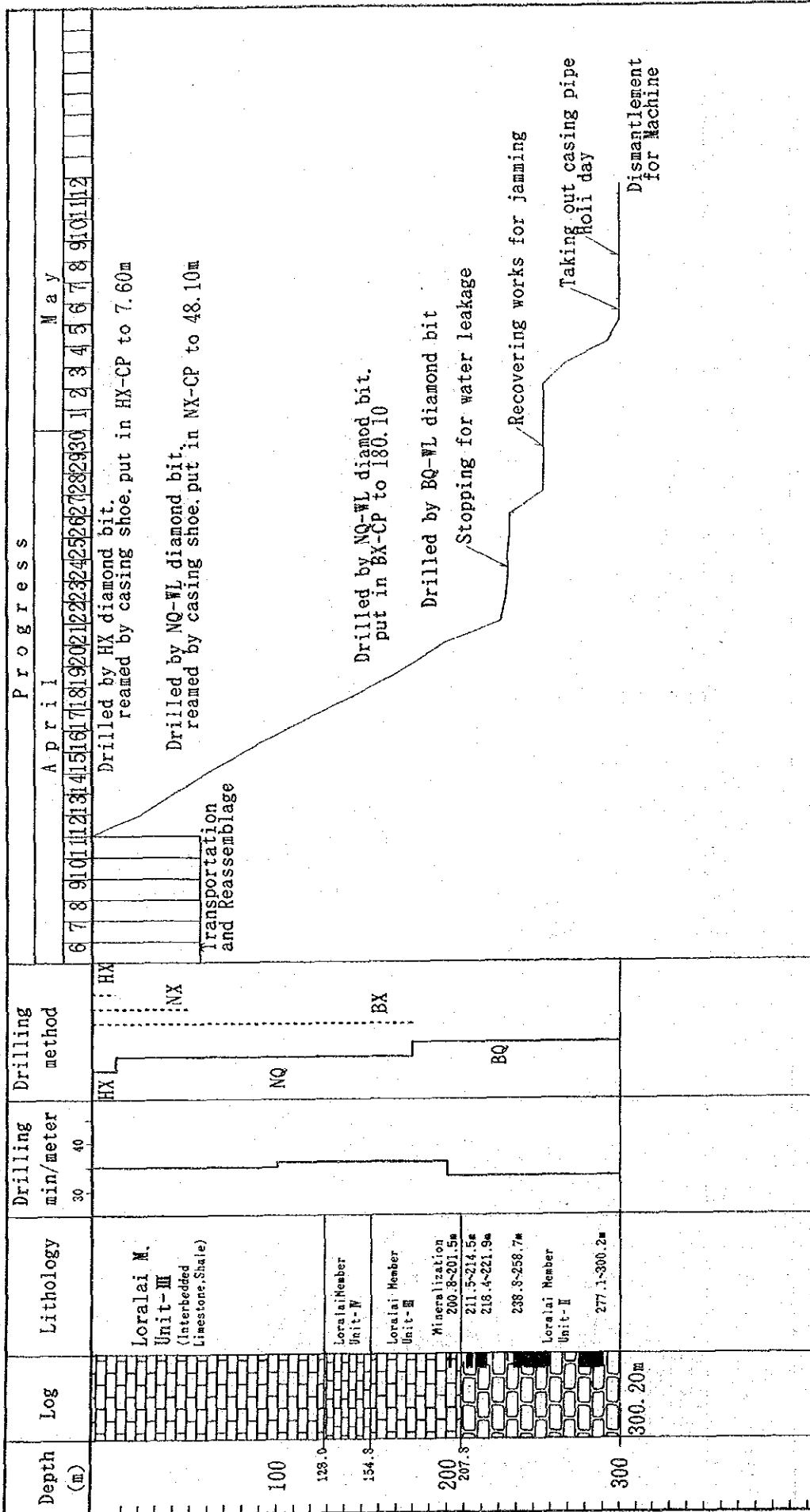
App. 7-6 Drilling Progress of MJP-12



App. 7-7 Drilling Progress of MJP-13








App. 7-8 Drilling Progress of MJP-14



App. 7-9 Drilling Progress of MJP-15

ボーリング柱状図(MJP-7~15) 凡例

<p>Ls : Limestone Sh : Shale raosm : Rhythmic alternation of (marly,)black Shale & (marly,)light grey Limestone. Thicknesses of each beds are 0.1~3.0mm. aolm : Alternation of grey Limestone(tk:2~10mm) & dark gery marly Shale(tk:1~2mm). wtbos : with thin beds(& patches) of (marly)Shale. Sha : Alternation-A. Alternation by raosm. Lsa : Alternation-B. Alternation by aolm.</p>		
<p>aln : alternate arg : argillaceous bed : well bedded brc : brecciated bk : black bw : brown Ca : calcite cmp : compact cly : clayey crs : coarse dk : dark dis : disseminated dnt : dominate fos : fossiliferous flm : film fis : fissile fin : fine gr : grey Ga : galena Hm : hematite Hmz : hematitization hrd : hard hvy : heavy</p>	<p>lam : well lamnated Li : limonitization lgt : light mly : marly Mc : marcasite min : mineralization ntwk : network nod : nodule olc : oolitic peb : pebble Py : pyrite pos : porous rd : red Sp : sphalerite sg : strong sft : soft Si : siderite tk : thickness vn : vein vnt : veinlet whd : weathered wh : with wk : weak</p>	<p> : limestone  : shale  : Alternation-A  : Alternation-B 45°: Angle between drill- ing direction and some boundary plane. 45°: Angle between drill- ing direction and bedd- ing plane.  : Pb, Zn mineralization o : fossiliferous oo : coquina bed (cq) x : core crushed Δ : brecciated ▲ : nodule of Limestone : : tubular trails ~ : clay mineralization etc II : strong I : medium I : weak</p>

Drill Hole No. : MJP-7
 Location : SURMAI-1
 Coordinate Point : N=1,125,475 E=2,008,315
 Depth : 150.5m
 Drilling Machine : L-38

Elevation : 1,477 m
 Inclination : -50°
 Core Recovery : 97.08%
 Term : MAR.13 '89 ~ MAR.18 '89

Depth (m)	Geolog. LOG	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
2.1	X			Non Core									
5			L s	gr, cmp.									
			S h	gr bw, cmp, mly.									
			L s	Sh	170								
			L s		165								
			S h	lgt, bw, cmp, sft.									
			L s		160								
			S h	lgt bw, cmp.									
			L s	gr, cmp.	165								
10			S h	gr~bw, cmp~lam.	180								
			L s	gr, cmp.	170								
			S h	dk gr~bw, cmp~lam, sft.	170								
			L s		180								
15			L s	gr, cmp, wtbos.	170								
			S h	dk gr, cmp.	170								
			L s		175								
			S h		175								
			L s	gr, cmp, wtbos.	180								
20			S h	dk gr, cmp~lam.	180-90								
			L s		180								
			S h	dk gr, cmp~lam.	170								
			L s	gr, cmp, wtbos.	180								
			S h		180								
25			L s	gr, cmp, wtbos.	180								
			S h		175								
			L s	gr, cmp, wtbos.	180								
			S h	dk gr, lam.	180								
			L s	gr, cmp, wtbos.	170								
30			S h		170								
			L s	gr, cmp, wtbos.	180								
			S h	dk gr, lam.	160								
			L s	gr, cmp, wtbos.									
35			S h	dk gr, lam.									
			L s	gr, cmp, wtbos.									
40			S h	dk gr, lam.									
			L s	gr, cmp, wtbos.									

Loralai Member-Unit-III

Hmz Ca vn, vnt, flm
Py dis

App. 8-1 MJP-7 Drilling Geological Log

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
45	[Lithology Column]	Loralai Member-Unit-III	L s	gr, cmp, wtbos.									
			L s	Sh		280							
			S h	dk gr, cmp.		260							
			S h			275							
			L s	gr, cmp, wtbos. Sp dis, Si vnt.			DH 7-1	44.2-45.1	0.9	0.09	1.04	<0.01	2.5
			S h	dk gr, lam.			DH 7-2	45.1-45.8	0.7	0.09	10.30	0.12	3.3
			L s	Li.			DH 7-3	45.8-46.8	1.0	0.83	18.00	<0.01	6.5
			S h	dk gr~gr, lam.			DH 7-4	46.8-47.8	1.0	0.02	0.32	<0.01	1.0
			L s	Li, Ca vnt. gr, cmp, wtbos.			DH 7-5	47.8-48.8	0.5	0.20	0.81	<0.01	1.5
			L s	Li, Ga>Sp dis.			DH 7-6	48.3-49.2	0.9	0.15	0.09	<0.01	3.3
			50	[Lithology Column]	Loralai Member-Unit-III	L s	Li, Ga>Sp dis.						
S h	dk gr~bk, lam.												
51.4	[Lithology Column]	Loralai Member-Unit-III	L s	Li, Ca vnt.									
			S h	dk gr~bk, lam.									
55	[Lithology Column]	Loralai Member-Unit-II	L s	Li, Ca vnt.									
			S h	Li, Ca vnt. wly, Ca+Si vnt. Li, Sp dis, Ca+Si vnt.									
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
60	[Lithology Column]	Loralai Member-Unit-II	L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos, fos									
			S h										
			L s	Li, bw.									
			L s	Li, bwrd bw. gr, cmp, wtbos.									
			L s	Li, bwrd bw. Zn oxide mineral?									
			L s	Li, bwrd bw.									
			L s	gr, cmp, wtbos.									
70	[Lithology Column]	Loralai Member-Unit-II	L s	Li, bwrd bw. Zn oxide mineral?									
			L s	gr, cmp, wtbos.									
			L s	Li, bwrd bw. Zn oxide mineral?									
			L s	gr, cmp, wtbos.									
			L s	Li, bwrd bw. Sp+Ca dis, ϕ 1-2mm. Sp \rightarrow Oxide mineral.									
			L s	gr, cmp, wtbos.									
			L s	Li, bwrd bw. Sp+Ca dis, ϕ 1-10mm. Sp \rightarrow Oxide mineral.									
			L s	gr, cmp, wtbos.									
			L s	gr, cmp, wtbos.									
			L s	gr, cmp, wtbos.									
			75	[Lithology Column]	Loralai Member-Unit-II	L s	gr, cmp, wtbos.						
S h	dk gr, lam.												
L s	gr, cmp, wtbos.												
S h													
L s	gr, cmp, wtbos.												
S h													
L s	gr, cmp, wtbos.												
S h													
L s	gr, cmp, wtbos.												
S h													
80	[Lithology Column]	Loralai Member-Unit-II				L s	gr, cmp, wtbos.						
			S h	dk gr, lam.									
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			85	[Lithology Column]	Loralai Member-Unit-II	L s	gr, cmp, wtbos.						
S h	dk gr, lam.												
L s	gr, cmp, wtbos.												
S h													
L s	gr, cmp, wtbos.												
S h													
L s	gr, cmp, wtbos.												
S h													
L s	gr, cmp, wtbos.												
S h													
90	[Lithology Column]	Loralai Member-Unit-II				L s	gr, cmp, wtbos.						
			S h	dk gr, lam.									
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
90	[Lithology Column]	Loralai Member-Unit-II	L s	gr, cmp, wtbos.									
			S h	dk gr, lam.									
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									
			S h										
			L s	gr, cmp, wtbos.									

Depth (m)	Geolog. LOG	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
			Sh										
			L s	gr, cmp, wtbos.	∠ 80								
			Sh										
95			L s	gr, cmp, wtbos, fos.	∠ 80 ∠ 90								
			Sh	bk, lam.	∠ 70								
			L s	gr, cmp, wtbos, fos.	∠ 80								
100			Sh	bk, lam.	∠ 75								
			L s	gr, cmp, wtbos.									
			Sh	dk gr, cmp.	∠ 70								
			L s		∠ 60								
			Sh										
105													
			L s	gr, cmp, wtbos, fos.									
110			Sh	dk gr, cmp.	∠ 75								
115			L s	gr, cmp, wtbos, fos.									
			Sh		∠ 75								
120			L s		∠ 70								
			Sh	dk gr, lam	∠ 70								
			L s	gr, cmp, wtbos, fos.									
125			Sh		∠ 75								
			Sh	dk gr, lam	∠ 60								
			L s	gr, cmp, wtbos, fos.	∠ 70								
130			Sh	bk, lam.	∠ 80								
			L s	gr, cmp, wtbos, fos.									
			Sh	gr, cmp, sly.									
135			L s	gr, cmp, wtbos, fos.									
			Sh		∠ 75								
			L s		∠ 75								
			Sh	dk gr, lam.	∠ 70								
140			L s	gr, cmp, fos.									

Loralai Member-Unit-II

Ca, Mn, Vnt, flm
Py dis

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
		Lorsajai Member-Unit-II	L s									
			S h	dk gr-bk, cmp, mly.								
			L s	gr, cmp, wtbos.								
			S h	bk, cmp~lam.	Z 80							
145			L s	gr, cmp, wtbos.								
			S h									
			L s									
			S h									
			L s									
			S h	dk gr, cmp	Z 80							
150		L s	gr, cmp, wtbos.	Z 70								
150.5												
155												
160												
165												
170												
175												
180												
185												
190												

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results							
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t				
45		Anjira Member-Unit-II	Ls	Sh		L70										
			Ls	Sh	gr, lam~cmp.	L60										
			Ls	Sh		L75										
			Ls	Sh		L60										
			Ls	Sh		L70										
			Sh	Sh	gr, sandy, lam.	L75										
			Ls	Ls	bk~dk gr, lam.	L75										
			Ls	Sh		L70										
			Ls	Sh		L80										
			Ls	Sh		L70										
			Ls	Sh	gr, sandy, lam.	L80	Hmz									
			Ls	Sh		L80	I									
			Ls	Sh		L70/L80	I									
			Ls	Sh	gr, sandy, lam.	L70/L80	Py dis									
			55	54.9		Ls	Sh	L80	I							
60		Anjira Member-Unit-I	Sh	Sh	dk gr~gr, sandy.	L75/L70										
			Ls	Sh		L80										
			Ls	Sh		L75	I									
			Ls	Sh	gr, sandy, cmp.	L75										
			Ls	Sh	gr, cmp.	L70-65										
			Ls	Sh		L65										
			Ls	Sh		L65										
			Sh	Sh	dk gr~bk, lam~cmp.	L60										
			Ls	Sh		L60										
			Sh	Sh	dk gr, sandy.	L90										
			Ls	Sh	gr, cmp, wtbos.	L45										
			Ls	Sh	dk gr, cmp.	L45										
			Ls	Sh		L45										
			Ls	Sh		L45										
			75		Anjira Member-Unit-I	Sh	Sh	dk gr~bk, cmp-lam.	L0/L20							
Sh	Sh					L0/L5										
Sh	Sh					L10										
Ls	Sh	gr, wtbos.				L80										
Ls	Ls	dk gr~bk, cmp-lam.				L80										
Sh	Sh					L80										
Ls	Sh	dk gr~bk, cmp-lam.				L80										
Ls	Sh	gr, wtbos.				L80										
Ls	Sh	gr, wtbos.				L80	I									
Sh	Ls	gr, sandy, lam.				L80										
85		Anjira Member-Unit-I				Sh	Sh	gr~dk gr, sandy, lam.	L60							
						Sh	Sh		L45							
						Sh	Sh		L60	Ca vn, vnt, flm						
						Sh	Sh		L60							
						Sh	Sh		L70							
			Sh	Sh		L70										
			Ls	Sh	gr, lam, wtbos.	L70										
			Sh	Sh	dk gr, sandy, cmp.	L70										

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
			Sh	dk gr, sandy, cap. Py nod wh Sp dis. (90.6-90.8m)	260							
			Ls		270							
			Sh									
			Ls		270							
			Sh									
95			Ls	gr, cmp, wtbos.								
			Sh	dk gr, cap.	250							
			Ls		250							
			Ls	gr, wtbos.								
100			Sh	dk gr, cap.	245							
			Ls	gr, wtbos.								
			Sh		250							
			Ls		245							
105			Sh									
			Ls		250							
			Sh		245							
			Ls	gr, cmp, wtbos.								
			Sh	Ca nod (108.1m, 2x10mm)	245							
110			Ls	gr, cmp, wtbos.								
			Sh		290							
			Ls	gr, wtbos.	250							
115			Sh	bk, lau.								
120			Ls	gr, wtbos.								
			Sh		275							
			Ls	dk gr, cap.	250							
			Sh									
125			Ls									
			Sh		280							
			Ls		250							
			Sh									
			Ls	gr, cmp, wtbos.								
130			Sh									
			Ls									
			Sh		260							
			Ls	gr, cmp, wtbos.								
135			Sh		260							
			Ls									
			Sh	dk gr, cap.								
			Ls	gr, cmp, fos.								
138.5			Sh		250							
140			Ls									
			Sh									

Anjira Member-Unit-I

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Kd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
			Sh	dk gr, cmp.								
			Sh	dk gr, cmp.	250							
			Sh	dk gr, cmp.	250							
145			Ls	gr, wtbos.	245							
			Sh	gr-dk gr, lau, fos.	250							
			Sh	dk gr, sandy, cmp.	260							
150			Sh	dk gr, sandy, cmp.	260							
			Ls	gr, cmp, fos.	255							
			Ls	gr, cmp, fos.	280							
155			Ls	gr, cmp, wtbos.	270							
			Ls	gr, cmp, wtbos.	250							
160			Sh	dk gr-bk, cmp-lau.	260							
			Ls	gr, cmp, fos.	260							
			Ls	gr, cmp, fos.	245							
165			Ls	gr, cmp, wtbos, fos.	260							
			Ls	gr, cmp, wtbos, fos.	275							
			Sh	dk gr, cmp.	270							
			Ls	gr, cmp, wtbos.	245							
170			Ls	gr, cmp, wtbos.	270							
			Ls	gr, cmp, wtbos.	270							
175			Ls	gr, cmp, wtbos.	270							
			Sh	bk, lau.	270							
180			Ls	gr, cmp, wtbos.	270							
			Sh	dk gr, cmp.	260							
185			Ls	gr, cmp, wtbos.	240							
			Ls	gr, cmp, wtbos.	250							
			Sh	dk gr, cmp, partly sandy.	270							
190			Sh	dk gr, cmp, partly sandy.	260							

Loralai Member-Unit-IV

Ca vn, vnt, flm
Py dis

Depth (m)	Geolos. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
			Sh		250								
			Ls	gr. cmp. wtbos.	245								
195			Sh	dk gr. cmp.	260								
			Ls		250								
			Sh	bk-dk gr. cmp.	260								
			Ls		270								
200			Sh		260								
			Ls	gr. cmp. wtbos.	250								
			Sh	dk gr. cmp.	280								
			Ls		270								
205			Sh	gr. cmp. wtbos. fos.	275								
			Ls		280								
			Sh	dk gr. cmp.	270								
			Ls		260								
210			Sh	dk gr. cmp.	260								
			Ls	gr. cmp. wtbos.	260								
			Sh		260								
			Ls		260								
215			Sh	bk-dk gr. cmp.	260								
			Ls		280								
			Sh		275								
			Ls		275								
220			Sh		275								
			Ls	gr. cmp. wtbos.	270								
			Sh	gr. cmp.	270								
225			Ls		270								
			Sh		270								
			Ls	gr. cmp. wtbos.	250								
230			Sh		280								
			Ls		285								
			Sh	dk gr. cmp~lam.	260								
			Ls		280								
235			Sh		270								
			Ls	gr. cmp. wtbos.	270								
			Sh		280								
			Ls		270								
			Sh		280								
			Ls	gr. cmp. wtbos.	270								
			Sh		270								
240			Ls		270								
			Sh	bk-dk gr. lam~cmp.	270								
			Ls		260								

Loralai Member-Unit-IV

Ca vn, vnt, flm

Py dis

Depth (m)	Geolog. Log	Lithology		Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results					
		Group	Rock					Remarks	Pb %	Zn %	Ba %	Ag g/l	
			Sh										
			Ls	gr, cmp, wtbos.	245								
			Sh		245								
245			Ls		245								
			Sh	bk-dk gr, lam.	250								
			Ls	gr, cap.	280								
			Sh		275								
			Ls		280								
250			Sh		270								
			Ls		245								
			Sh	bk-dk gr, lam-cap.									
255			Ls	gr, cmp.									
			Sh	bk, lam.	210								
260			Sh		20								
			Ls	gr, cmp, wtbos.	210								
			Sh	bk-dk gr, lam.	20140								
			Ls		250								
			Sh		280								
265			Ls	gr, cap, wtbos.	280								
			Sh		280								
			Ls		280								
			Sh	bk-dk gr, lam-cap.	280								
270			Ls	gr, cmp, fos.									
			Sh	dk gr, cmp.	275								
			Ls		260								
275			Sh										
			Ls										
			Sh										
			Ls	gr, cap, wtbos, fos.	270								
280			Sh	bk, lam.	275								
			Ls		260								
			Sh		270								
			Ls		260								
285			Sh										
			Ls										
			Sh										
			Ls	gr, cmp, wybos.	275								
			Sh	bk, lam.									
			Ls		250								
290			Sh		250								

Loralai Member-Unit-IV


Ca vn. vnt, flm
Py dis

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results						
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t			
295	[Lithology Log]	Loralai Member-Unit-IV	Sh	dk gr-bk, cmp-lam.	ZnO										
			Ls	gr, cmp, wtbos.											
			Sh												
			Ls												
			Sh												
			Ls												
			Sh	dk gr, cmp-lam.											
			Ls												
			Sh	dk gr, cmp, fos.											
			Ls	gr, cmp, wtbos.											
			Sh												
			Ls	gr, cmp, wtbos.											
			Sh	bk, lam.											
			Ls	dk gr, cmp.											
			Sh	gr, cmp, wtbos.											
			Ls												
			Sh	dk gr-bk, cmp-lam.											
			310	[Lithology Log]	Loralai Member-Unit-IV	Ls	gr, cmp, wtbos.								
Sh	bk, lam.														
Ls	dk gr, cmp.														
Sh	gr, cmp, wtbos.														
Ls															
Sh															
Ls															
Sh	dk gr-bk, cmp-lam.														
Ls	gr, cmp, wtbos.														
Sh	bk-dk gr, lam.														
Ls															
Sh															
Ls															
Sh															
Ls															
Sh															
315	[Lithology Log]	Loralai Member-Unit-IV				Ls	gr, cmp, wtbos.								
						Sh	bk-dk gr, lam.								
			Ls												
			Sh												
			Ls												
			Sh												
			Ls												
			Sh	dk gr-bk, cmp-lam.											
			Ls	gr, cmp, wtbos.											
			Sh	bk-dk gr, lam.											
			Ls												
			Sh												
			Ls												
			Sh												
			Ls												
			320	[Lithology Log]	Loralai Member-Unit-IV	Ls	gr, cmp, wtbos.								
						Sh	bk-dk gr, lam.								
						Ls									
Sh															
Ls															
Sh															
Ls															
Sh	dk gr-bk, cmp-lam.														
Ls	gr, cmp, wtbos.														
Sh	bk-dk gr, lam.														
Ls															
Sh															
Ls															
Sh															
Ls															
325	[Lithology Log]	Loralai Member-Unit-IV				Ls	gr, cmp, wtbos.								
						Sh	bk-dk gr, lam.								
						Ls									
			Sh												
			Ls												
			Sh												
			Ls												
			Sh	dk gr-bk, cmp-lam.											
			Ls	gr, cmp, wtbos.											
			Sh	bk-dk gr, lam.											
			Ls												
			Sh												
			Ls												
			Sh												
			Ls												
			330	[Lithology Log]	Loralai Member-Unit-IV	Ls	gr, cmp, wtbos.								
						Sh	bk-dk gr, lam.								
						Ls									
Sh															
Ls															
Sh															
Ls															
Sh	dk gr-bk, cmp-lam.														
Ls	gr, cmp, wtbos.														
Sh	bk-dk gr, lam.														
Ls															
Sh															
Ls															
Sh															
Ls															
330.5	[Lithology Log]	Loralai Member-Unit-II				Ls	gr, cmp, wtbos.								
						Sh	Ca dis, Ca>Si vnt.								
						Ls	bk, lam, Ca>Si vnt.								
			Sh	gr, cmp, Si vnt.											
			Ls	bk, lam, Ca>Si vnt, Sp dis.											
			Sh	gr, wtbos, Ca dis.											
			Ls	bk, lam, Ca>Sp dis.											
			Sh												
			Ls	gr, cmp, wtbos.											
			Sh	Sp>Ca dis, Ca>Si vnt.											
			Ls												
			Sh	dk gr, cmp, sandy.											
			Ls	Ca dis, Si>Ca vnt.											
			Ls	aoim.											
			335	[Lithology Log]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos.								
						Sh	Ca dis, Ca>Si vnt.								
						Ls	bk, lam, Ca>Si vnt.								
						Sh	gr, cmp, Si vnt.								
Ls	bk, lam, Ca>Si vnt, Sp dis.														
Sh	gr, wtbos, Ca dis.														
Ls	bk, lam, Ca>Sp dis.														
Sh															
Ls	gr, cmp, wtbos.														
Sh	Sp>Ca dis, Ca>Si vnt.														
Ls															
Sh	dk gr, cmp, sandy.														
Ls	Ca dis, Si>Ca vnt.														
Ls	aoim.														
340	[Lithology Log]	Loralai Member-Unit-II				Ls	gr, cmp, wtbos.								
						Sh	Ca dis, Ca>Si vnt.								
						Ls	bk, lam, Ca>Si vnt.								
						Sh	gr, cmp, Si vnt.								
			Ls	bk, lam, Ca>Si vnt, Sp dis.											
			Sh	gr, wtbos, Ca dis.											
			Ls	bk, lam, Ca>Sp dis.											
			Sh												
			Ls	gr, cmp, wtbos.											
			Sh	Sp>Ca dis, Ca>Si vnt.											
			Ls												
			Sh	dk gr, cmp, sandy.											
			Ls	Ca dis, Si>Ca vnt.											
			Ls	aoim.											
			340	[Lithology Log]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos.								
						Sh	Ca dis, Ca>Si vnt.								
						Ls	bk, lam, Ca>Si vnt.								
						Sh	gr, cmp, Si vnt.								
Ls	bk, lam, Ca>Si vnt, Sp dis.														
Sh	gr, wtbos, Ca dis.														
Ls	bk, lam, Ca>Sp dis.														
Sh															
Ls	gr, cmp, wtbos.														
Sh	Sp>Ca dis, Ca>Si vnt.														
Ls															
Sh	dk gr, cmp, sandy.														
Ls	Ca dis, Si>Ca vnt.														
Ls	aoim.														

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
			L s a	aola.	Z70							
			S h	dk gr, cmp.	L70 L45							
345			L s a	aola.	L70L70 L70							
			S h a	raosm, gr~dk gr.	L60 L50 L60 L55							
350			S h	dk gr, sandy.	L65 L60 L70							
355			S h a	raosm, dk gr~gr.	L45							
360			S h	dk gr, sandy, cmp.	L70 L55 L50							
365			S h a	raosm, dk gr~gr.	L70 L30 L5 L0							
370			S h a	raosm, dk gr~gr.	L0 L5 L10 L15							
375			L s	gr, lam.	L20 L60 L30							
380			S h	gr~dk gr, sandy, cmp.	L20 L20 L5 L5							
385			S h a	raosm, bk~gr.	L0 L10 L70							
390			S h	gr~dk gr, sandy, cmp.								

Loralai Member - Unit - II

Ca vn, vnt, flm

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/l
		Loralai Member-Unit-II	Sh	grndk gr. sandy, cap.								
395			Sha	raosm, bk~gr.	Z50 Z0 Z70 Z40 Z45 Z40	Ca. vn. vit. flm.						
400												
401.0												

Drill Hole No. : MJP-9
 Location : SURMAI-III
 Coordinate Point : N=1,123,002 E=2,007,858
 Depth : 301.0m
 Drilling Machine : L-38

Elevation : 1,542 m
 Inclination : -40°
 Core Recovery : 95.12%
 Term : JAN. 28 '89 ~ FEB. 15 '89

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/l
5				Non core (Boulder, gravel-sand)								
11.5			Ls	gr. comp-lam. wtbos.	Z65							
			Sh			Z65Z65						
			Ls			Z60						
15			Sh	lgt bw. lam.		Z60						
			Ls			Z60						
			Sh									
			Ls	gr. lam-comp. wly.		Z80						
			Sh	gr. comp-lam. sandy.		Z70						
20			Ls	gr. comp-lam. wtbos.		Z70						
			Sh	gr. comp-lam. sandy.								
			Ls									
			Sh									
			Ls	gr. comp, sandy.		Z80						
			Sh									
25			Ls			Z80						
			Sh									
			Ls	gr. comp-lam. wtbos.		Z80						
			Sh									
			Ls			Z80						
		Sh										
30		Ls			Z75							
		Sh	dk gr. lam.		Z75							
		Ls			Z70							
		Sh			Z75							
35		Ls	gr. comp-lam. wtbos.		Z75							
		Sh										
		Ls	gr. comp-lam. wtbos.		Z70							
		Sh			Z80							
		Ls			Z75							
40		Sh	dk gr. comp-lam.		Z75							

Anjira Member-Unit-II

Ca vn, vnt, flm
Py dis

App. 8-3 MJP-9 Drilling Geological Log

Depth (m)	Geolog. Log	Lithology		Mineralization etc	Sample No.	Depth (m)	Nd (m)	Assay Results				
		Group	Rock					Remarks	Pb %	Zn %	Ba %	Ag g/t
45	[Lithology symbols]	Anjira Member-Unit-II	Sh	Ls								
			Sh	Ls								
			Sh	Ls	gr-dk gr, cmp.	Z70						
			Sh	Ls		Z80						
			Ls	Ls	gr, lam-cmp, wtbos.	Z60						
			Sh	Ls		Z55						
			Ls	Sh		Z55						
			Ls	Sh		Z50						
			Ls	Sh		Z40						
			Ls	Ls	gr-bw gr, mly.	Z40						
50	[Lithology symbols]	Anjira Member-Unit-II	Sh	Ls	gr-ist gr, lam-cmp.	Z70						
			Sh	Ls		Z70						
55	[Lithology symbols]	Anjira Member-Unit-I	Sh	Ls	gr-dk gr, lam, sandy.							
			Ls	Sh								
			Sh	Ls		Z75						
			Sh	Ls		Z75						
			Sh	Ls	gr, cmp, mly.	Z75						
			Sh	Ls	dk gr-bk, cap-lam.	Z85						
			Sh	Ls		Z85						
			Sh	Ls		Z90						
			Sh	Ls		Z65						
			Sh	Ls		Z75						
60	[Lithology symbols]	Anjira Member-Unit-I	Sh	Ls		Z85						
			Sh	Ls		Z85						
			Sh	Ls		Z90						
			Sh	Ls		Z65						
			Sh	Ls		Z75						
			Sh	Ls		Z85						
			Sh	Ls		Z85						
			Sh	Ls		Z80						
			Sh	Ls	dk gr-bk, lam.	Z80						
			Sh	Ls		Z80						
65	[Lithology symbols]	Anjira Member-Unit-I	Sh	Ls	dk gr-gr, sandy.	Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
70	[Lithology symbols]	Anjira Member-Unit-I	Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
75	[Lithology symbols]	Anjira Member-Unit-I	Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
80	[Lithology symbols]	Anjira Member-Unit-I	Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
85	[Lithology symbols]	Anjira Member-Unit-I	Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
90	[Lithology symbols]	Anjira Member-Unit-I	Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						
			Sh	Ls		Z80						

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
		Anjira Member-Unit-I											
			L s	gr, cmp, wtbos.	290								
95			Sh	dk gr, cmp	280								
			L s		280								
			Sh		280								
100			L s	gr, cmp, wtbos.	280								
			Sh	bk, fos.	290								
			L s		290								
			Sh		290								
			L s		270								
			L s	gr, cmp, wtbos.	290								
105			Sh	dk gr, cmp.	290								
			L s	gr-igt gr, cmp, wtbos.	290								
			Sh		285								
110			L s		290								
			Sh	dk gr, cmp.	290								
			L s		290								
112.8			Sh	Ls									
			Sh	gr, cmp, sandy.	175								
115			L s	gr, cmp, fos.									
			Sh	dk gr, cmp.									
120			L s	gr, cmp, wtbos.	260								
			Sh		270								
			L s		280								
125			Sh		280								
			L s	gr, cmp, wtbos.	290								
			Sh		280								
			L s		290								
			Sh	dk gr, cmp.	280								
130			L s	gr, cmp, fos.	270								
			Sh	gr, cmp, wtbos.	280								
			L s		275								
			Sh										
135			L s		280								
			Sh	dk gr, cmp.	280/275								
			L s										
			Sh	bk, cmp.	245								
140			L s		280								
			Loralai Member-Unit-IV										

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Yd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
			L s										
			L s	gr, cmp, wtbos.									
145			L s	gr, cmp, wtbos.									
			S h	dk gr, cmp.									
150			L s	gr, cmp, wtbos.									
			S h	dk gr, cmp, fos.									
155			L s	gr, wtbos.									
			S h	dk gr~bk, cmp~lam.									
160			L s	gr, wtbos, fos.									
			S h	dk gr, cmp~lam.									
165			L s	gr, cmp, wtbos.									
			S h	dk gr, cmp, wtbos.									
170			L s	gr, cmp, wtbos.									
			S h	dk gr, cmp~lam.									
175			L s	gr, cmp, wtbos.									
			S h	dk gr, cmp~lam.									
180			L s	gr, cmp, wtbos.									
			S h	bk~dk gr, lam~cmp.									
185			L s	gr, cmp, wtbos.									
			S h	bk~dk gr, lam~cmp.									
190			L s	gr, cmp, wtbos.									
			S h	bk~dk gr, lam~cmp.									

Loralai Member - Unit - IV

Py dis
Ca vn, vnt, flm

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
			Sh										
			Ls		745								
			Sh										
			Ls										
			Sh	bk~dk gr, lam~cmp.	780								
			Ls		780								
195			Ls	gr, cmp, wtbos.	780								
			Sh	bk, cmp~lam, fos.	780								
			Ls		780								
200			Sh		790								
			Ls		790								
			Sh		780								
			Ls	gr, wtbos.	780								
205			Sh		760								
			Ls										
			Sh										
			Ls										
			Sh	bk, lam~cmp.									
210			Ls	gr, cmp.									
			Sh	bk~dk gr, lam~cmp.	785								
			Ls	gr, wtbos, fos.	785								
			Sh		785								
			Ls	dk gr~bk, cmp~lam.									
215			Sh										
			Ls										
			Sh		770								
			Ls										
			Sh	gr, cmp, wtbos.	785								
			Ls										
220			Sh	bk~dk gr, lam~cmp.									
			Ls	gr, cmp.	785								
			Sh	bk, lam~cmp.	780								
			Ls		770								
225			Sh		780								
			Ls	gr, cmp.									
			Sh	bk~dk gr, lam~cmp.									
			Ls	gr, cmp, wtbos.									
230			Sh	bk~dk gr, lam~cmp.									
			Ls		770								
			Sh		760								
235			Ls	gr, wtbos.	780								
			Sh	dk gr, cmp~lam.	770								
240			Ls	gr, cmp.									

Loralai Member-Unit-IV

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results					
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t		
245		Loralai Member-Unit-IV	Ls											
			Sh	bk, lam.	Z80									
			Ls		Z60									
			Sh		Z70									
			Ls		Z60									
250			Ls	gr, cmp, wtbos.										
			Sh	bk, cmp~lam.	Z70									
			Ls		Z70									
255			Sh	bk, lam~cmp.	Z70									
			Ls		Z70									
			Sh		Z70									
			Ls	gr, cmp, wtbos.	Z50									
260			Ls		Z80/Z70									
			Sh		Z70									
			Ls	gr, wtbos.	Z45									
		Sh	bk, lam.	Z50										
265		Ls												
		Sh	bk, cmp~lam.											
265.8		Ls	gr, Sp>Ca dis.			DH9-1	265.8-266.4	0.6	2.60	7.67	0.19	24.5		
		Sh	bk, lam.			DH9-2	266.4-267.2	0.8	0.26	4.42	0.06	4.0		
		Ls	wtbos, Sp>Ca dis.	Z60		DH9-3	267.2-267.9	0.7	0.83	1.09	0.04	7.5		
		Sh	bk, lam.	Z60		DH9-4	267.9-269.3	1.4	<0.01	<0.01	<0.01	0.8		
270		Ls	gr, cmp, wtbos. Ca vnt, Si dis.	Z45		DH9-5	269.3-270.4	1.1	0.02	<0.01	<0.01	<0.5		
		Sh	bk, lam, Si dis, Ca vnt.	Z50		DH9-6	270.4-272.6	2.2	0.09	0.05	<0.01	1.3		
		Sha	raosm.											
		Ls	Sha raosm.	Z80										
275		Sh	dk gr~bk.			DH9-7	272.6-275.5	2.9	0.01	0.01	<0.01	<0.5		
		Ls	mly. Sp dis. sandy, Si dis.	Z80		DH9-8	275.5-276.1	0.8	0.17	5.40	<0.01	3.0		
		Sh	wtbos, Ca, Si dis.	Z80		DH9-9	276.1-278.5	0.4	0.39	0.01	<0.01	3.0		
		Ls	Sh sandy, Ca, Si dis.	Z45		DH9-10	276.5-277.2	0.7	0.15	<0.01	<0.01	1.5		
		Ls	gr, wtbos. Sp>Ca dis. Si dis, Ca vnt.	Z70		DH9-11	277.2-277.5	0.3	0.95	0.01	<0.01	6.0		
280		Sh	bk, lam.	Z20		DH9-12	277.5-278.7	1.2	0.42	0.34	<0.01	4.0		
		Ls	Breccia, cmp, brd. φ1-15mm : Sh, Ca. matrix : Ls. Sp>Ca dis, Si dis.			DH9-13	278.7-279.8	1.1	0.14	<0.01	<0.01	2.0		
		Ls	gr, wtbos, Si dis.			DH9-14	279.8-282.5	2.7	1.42	1.59	<0.01	8.5		
		Ls				DH9-15	282.5-283.2	0.7	0.04	0.20	<0.01	1.3		
285		Ls	gr, mly, wtbos.	Z60		DH9-1~15	265.8-283.2	17.4	0.45	0.98	0.03	3.7		
		Sh	bk, lam.	Z70										
290		Ls	gr, mly, wtbos.											

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Vd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
		Loralai Member-Unit-II	L s	gr, mly, wtbos.	Ca vn, vnt, flm Py dis							
			L sa	aolm.		770 765 780						
295			L s	gr, wtbos.		760						
			L sa	aolm.		760/60						
			S h	dk gr, cmp~lam								
			L s	gr, cmp, wtbos.		760						
300			L sa	aolm.		770/60						
			L s			760						
301.0			S h									
			L s	gr. wtbos.								
305												
310												
315												
320												
325												
330												
335												
340												

Drill Hole No. : MJP-10
 Location : SURMAI-III
 Coordinate Point : N=1,123,002 E=2,007,858
 Depth : 500.3m
 Drilling Machine : L-38

Elevation : 1,542 m
 Inclination : -90°
 Core Recovery : 96.66%
 Term : JUNE 27 '89 ~ JULY 19 '89

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
5				Non core (Boulder, gravel-sand)								
7.8												
10			L s	gr, cmp, wtbos.								
			Sh	gr bw, cmp.								
15			L s	gr, cmp, wtbos.								
			Sh	dk gr, mly.								
20			L s									
			Sh		445							
			Sh	dk gr, cmp-lam.								
25			L s	gr, wtbos.								
			Sh		445							
			L s									
			Sh		445							
			L s	gr, cmp, wtbos.								
			Sh		445							
			L s		450/45							
			Sh		445							
30			L s	gr, cmp, wtbos.								
			Sh		440							
			L s									
			Sh	dk gr, cmp-mly.	450							
35			L s	gr, wtbos.								
			Sh		440							
			L s		445							
			L s	gr, cmp, wtbos.								
			Sh		445							
			L s		450							
			Sh		450							
40			L s									
			Sh	dk gr, cmp.								

Anjira Member--Unit-II

Hmz

Ca vn, vnt, flm

Py dis

App. 8-4 MJP-10 Drilling Geological Log

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
			Sh	dk gr, cmp, mly.								
			Sh	bk~dk gr, cmp.	Z45							
95			Sh	dk gr, cmp, mly.	Z50							
			Sh	dk gr, cmp, mly.	Z45							
			Sh	bk~dk gr, cmp-lan.	Z45							
			Sh		Z50							
			Sh		Z45							
100			Ls	gr, cmp, wtbos.	Z45							
			Sh		Z50							
			Ls	gr, cmp, wtbos.	Z50							
			Sh	bk, cmp.	Z50							
105												
			Ls	gr, cmp, wtbos.	Z60							
					Z45							
110			Sh		Z60							
			Ls									
			Sh									
			Sh	dk gr, cmp, mly.								
115			Ls	gr, cmp, wtbos.								
			Sh									
			Ls	gr, cmp.								
			Sh									
			Ls									
			Sh	dk gr, cmp, mly.								
			Sh		Z40							
120			Ls	gr, cmp.	Z50							
			Sh									
			Ls	gr, cmp.								
			Sh		Z45							
			Ls	gr, cmp, wtbos.								
125			Sh									
			Ls	bk, lan~cmp.	Z40							
			Ls	gr, cmp, wtbos.								
			Sh		Z45							
130												
			Ls	gr, cmp, wtbos.								
					Z40							
135			Sh		Z35							
			Sh	bk, cmp.								
			Ls	gr, cmp.	Z40							
140												

Anjira Member-Unit-I

Ca vn, vnt, flm

Py dis

Hmz

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/L
			L s									
			Sh	lgt bw. cap.	H							
145												
			L s	gr, cmp.	Hmz							
150												
			Sh	bk, cap.								
155			L s	gr, cmp, wtbos.								
			Sh	bk, cmp.								
160			L s	gr, cmp.								
			L s	dk gr. law.								
			L s	gr, cmp, wtbos.								
165			Sh	bk, cap.								
			L s									
			Sh									
			L s	bk, cap.								
			Sh									
			L s	gr, cmp, wtbos.								
170			Sh	bk, cap.								
			L s	gr, cmp, wtbos.								
			Sh	bk, cap.								
175			L s	gr, cmp.								
			Sh									
			L s	gr, cmp, wtbos, fos.								
180			Sh	bk, lam cap.	Hmz							
			L s	gr, cmp, wtbos, fos.								
			L s									
			Sh	dk gr, cap.								
185			L s	gr, cmp, wtbos.								
			Sh	bk, cap.								
190			L s									

Anjira Member-Unit-I

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
		Anjira M. -Unit-1	L s										
			S h										
193.2			L s	gr, cmp, wtbos.	Z60								
			S h										
195			L s										
			S h										
			L s										
			S h	dk gr, cmp.									
200			L s	gr, cmp.									
			S h	dk gr-bk, cmp, fos.	Z50								
205			L s	gr, cmp, oic, fos.	Z60								
			S h		Z55								
210			L s	gr, cmp, oic, fos.	Z50								
			S h		Z50								
			L s		Z45								
			S h										
215			L s	gr, cmp.									
			S h	bk, cmp.	Z50								
220			L s	gr, cmp, wtbos, fos.									
			S h	bk, cmp.	Z10								
			L s	gr, cmp, fos.	Z10								
225			S h		Z40								
			L s	gr, cmp, fos.	Z40								
			S h		Z60								
			L s	gr, cmp, wtbos.	Z50								
			S h	bk, cmp.	Z45								
230			L s	gr, cmp, wtbos, fos.									
			S h	bk, cmp.	Z15								
235			L s	gr, cmp, fos, oic.	Z10								
			S h	bk, cmp.	Z10								
			L s		Z20								
			S h		Z30								
240			L s	gr, cmp, fos, oic.	Z45								
			S h										
			L s										

Loralai Member-Unit-IV

Ca vn, vnt, flm
Py dis

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
	Loralai Member-Unit-IV		L s	gr, cmp, wtbos.									
			Sh	dk gr, cmp.	245								
245			L s	gr, cmp, wtbos.	250								
			Sh	bk~dk gr, cmp.	240								
					245								
250													
			L s	gr, cmp, wtbos.									
255													
260													
			Sh	bk, cap.	290								
					270								
265			L s	gr, cmp, wtbos.	220								
					230								
270					260								
			Sh	dk gr, cmp.	230								
				245									
275		L s	gr, cmp, wtbos.	240									
		Sh	dk gr, cmp.	245									
280				250									
		L s	gr, cmp, wtbos.	240									
		Sh	bk~dk gr, fan~cap.	270									
				240									
285		L s	gr, fos.	245									
		Sh	dk gr~bk, cmp.	260									
290				260									

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
			L s										
			S h	dk gr~bk, cmp.	245								
295			L s	gr, cmp, wtbos.	240								
					250								
			S h	bk, cmp.									
300			L s	gr, cmp, fos.	240								
			L s		245								
			L s		245								
			S h	bk, cmp.	250								
305			L s	gr, cmp.	260								
			S h	bk, cmp.	245								
					250								
310			L s	gr, cmp, wtbos.	255								
			S h	bk, lam.	260								
			L s	gr, cmp.									
315			S h										
			L s	gr, cmp, wtbos.	250								
			S h	bk, lam.	245								
			L s	gr, cmp.	245								
320			S h										
			L s		240								
			S h	bk~dk gr, lam~cap.	245								
					245/250								
325			L s	gr, cmp, wtbos.	240								
			S h	dk gr, cmp, aly.	240								
			L s		240								
			S h	dk gr, cmp.	260								
			L s	gr, cmp, fos.	240								
330			S h		245								
			L s		250								
					245								
			S h	bk~dk gr, lam~cap.	260								
					250								
335			L s	gr, cmp.	225								
			S h	bk~dk gr, lam~cap.	245								
			L s	gr, cmp.									
340			S h	bk~dk gr, cmp.	240								

Loralai Member-Unit-IV

Ca vn, vnt, flm
Py dis

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
345	[Pattern]		S h		Z50							
			L s	gr, cmp, wtbos.	Z60							
350	[Pattern]		S h	dk gr-bk, cap-lam.	Z50							
			L s	gr, cmp, wtbos, fos.	Z60							
355	[Pattern]		S h	dk gr-bk, cap-lam.	Z45							
			L s	gr, cmp.	Z40							
360	[Pattern]		S h	dk gr, cmp, fos.	Z50							
			L s	gr, cmp, wtbos.	Z45							
365	[Pattern]		S h		Z45							
			L s		Z35							
370	[Pattern]		S h		Z30							
			L s	gr, cmp.	Z40							
375	[Pattern]		S h	dk gr, cmp, fos.	Z45							
			L s	gr, cmp.	Z40							
380	[Pattern]		S h	dk gr, cmp, fos.	Z45							
			L s	gr, cmp.	Z50							
385	[Pattern]		S h	bk, lam, fos.	Z40							
			L s	gr, cmp, wtbos, fos.	Z45							
390	[Pattern]		S h	bk, cmp-lam, fos.	Z45							
			L s	gr, cmp, wtbos.	Z50							

Loralai Member-Unit-IV

Ca vn, vnt, flm
Py dis

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
			S h	bk~dk gr, cmp.	Z40							
			L s	gr, cmp, wtbos.	Z30							
395			L s	gr, cmp, wtbos.	Z45							
			S h	dk gr, cmp.	Z45							
400			L s	gr, cmp, wtbos.	Z40							
			S h	bk, lam.	Z35							
			S h	Ls	Z40							
405			L s	gr, cmp, wtbos.	Z40							
			S h	Ls	Z50							
			L s	dk gr~bk, cmp.	Z60							
410			L s	gr, cmp, wtbos.	Z70							
			S h	bk~dk gr, lam~cmp.	Z60							
			L s	Ls	Z70							
			S h	Ls	Z45							
415			L s	gr, wtbos.	Z50							
			S h	dk gr, cmp.	Z20Z50							
			L s	Ls	Z10							
			S h	Ls	Z0							
			L s	Ls	Z10Z20							
420			L s	gr, cmp, fos.	Z50							
			S h	bk, lam, fos.	Z60							
			L s	Ls	Z60							
425			S h	dk gr, lam~cmp.	Z70							
			L s	Ls	Z50							
			L s	gr, cmp, wtbos.	Z45							
430			S h	Ls	Z50							
			S h	Ls	Z70							
			L s	Ls	Z70							
435			S h	bk, cmp.	Z50							
			L s	Ls	Z50							
			L s	gr, cmp, wtbos.	Z30							
			S h	dk gr, cmp.	Z60							
440			L s	S h	Z50							

Loralai Member-Unit-IV

Ca vn, vnt, flm

Py dis

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
445		Loralai Member-Unit-IV	Sh	dk gr, cmp.								
			Ls	gr, cmp, wtbos.	250							
Sh			260									
Ls			270									
450			Sh	dk gr, cmp.	250							
			Ls	gr, cmp, wtbos.	250							
455			Sh		280							
			Ls	gr, wtbos.	280							
			Sh	dk gr~bk, cmp~lam.	270							
			Ls	gr, cmp, wtbos, fos.	270							
		Sh		260								
		Ls	sr, cmp, wtbos.	245								
460		Sh	dk gr~bk, cmp, fos.	280								
		Ls	gr, wtbos.	280								
		Sh	dk gr~bk, cmp~lam.	250								
		Ls	gr, cmp, wtbos, fos.	250								
465		Sh	dk gr, cmp.	270								
		Ls		240								
		Sh	dk gr~bk, cmp.	240								
470		Ls	gr, wtbos.	240								
		Sh	dk gr~bk, cmp.	250								
475		Ls	gr, cmp, wtbos.	240								
		Sh	dk gr, cmp.	230								
		Ls	gr, cmp, wtbos.	240								
480		Sh	dk gr, cmp.	235								
		Ls	gr, cmp.	20								
485		Ls	gr, cmp.	240								
		Sh	dk gr, cmp~lam.	270								
490		Ls		210								
		Sh		210								

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
		Loralai Member-Unit-IV	L S	Sh gr. cmp, fos.	110							
			S h	dk gr, cmp.	140 150							
495			L s		180							
			S h		140							
			L s	gr, cmp, wtbos.	150 160							
			S h	dk gr, cmp.	150 160							
500			L s	dk gr, cmp.	170							
500.3			S h	Ls gr, cmp, wtbos.	145							
Py dis												

Drill Hole No. : MJP-11
 Location : SURMAI-III
 Coordinate Point : N=1,123,150 E=2,008,247
 Depth : 251.0m
 Drilling Machine : L-38

Elevation : 1,567 m
 Inclination : -90°
 Core Recovery : 96.41%
 Term : JUNE 13 '89 ~ JUNE 21 '89

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results					
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t		
1.1				Non core										
5			L s	gr, cmp, wtbos, olc.	Z50									
			S h	gr bw, lam.	Z60									
			L s	gr, cmp, wtbos, olc.	Z60									
10			S h		Z60									
			L s	gr, cmp, olc.	Z50/Z50									
			S h	gr bw-bk, cap-lam, fos.	Z60									
			L s	gr, cmp, wtbos.	Z50									
15			S h	bk-dk gr, lam-cap.	Z45									
			L s		Z50									
			S h		Z50									
			L s	gr, cmp, wtbos.	Z50									
20			S h	dk gr~bk, lam.	Z50/Z50									
			L s		Z50									
			S h		Z50									
			L s	gr, cmp, wtbos.	Z50									
25			S h		Z45/Z50									
			L s		Z55									
			S h		Z50									
			L s		Z50									
			S h		Z50									
30			L s	gr, cmp, wtbos.	Z60									
			S h		Z60									
			L s		Z60									
			S h	dk gr, oly.	Z65									
			L s	bk, lam-cap.	Z60									
35			S h											
			L s											
			S h	gr, cmp, wtbos, olc.	Z70									
			L s		Z70									
			S h a	raosu.	Z90									
			L s		Z70									
40			S h	bk, lam.	Z60									
			L s											

App. 8-5 MJP-11 Drilling Geological Log

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
45	Loralai Member-Unit-III	Ls	gr, cmp, wtbos, olc.		Li Ca vn, vnt, f, m Sp dis Ga dis Si vnt, dis Py dis							
		Sh	bk, lam.									
		Ls	gr, cmp, wtbos, Sp, Ga, Py wk dis.									
		Sh	dk gr, cmp.									
		Ls	gr, cmp, wtbos, fos.									
		Sh	gr, cmp, wtbos, fos, olc.									
		Ls	gr, cmp, wtbos, fos, olc.									
		Sh	bk, lam.									
		Ls	Sp>Ga dis.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	Sp, Ga dis-dots.									
		50 49.5	Loralai Member-Unit-III	Ls		gr, cmp, wtbos, fos, olc.						
Sh	gr, cmp, wtbos, fos, olc.											
Ls	gr, cmp, wtbos, fos, olc.											
Sh	bk, lam.											
Ls	Sp>Ga dis.											
Ls	gr, cmp, wtbos, olc.											
Ls	Sp, Ga dis-dots.											
Ls	Sp, Ga dis-dots (φ5mm)											
Ls	Sp, Ga dis.											
Ls	Sp>Ga dis wh Li.											
Ls	Ga, Sp dis-dots.											
55	Loralai Member-Unit-III			Ls	gr, cmp, wtbos, olc.							
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		60	Loralai Member-Unit-III	Ls	gr, cmp, wtbos, olc.							
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
65	Loralai Member-Unit-III			Ls	gr, cmp, wtbos, olc.							
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		70	Loralai Member-Unit-III	Ls	gr, cmp, wtbos, olc.							
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
75	Loralai Member-Unit-III			Ls	gr, cmp, wtbos, olc.							
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		80	Loralai Member-Unit-III	Ls	gr, cmp, wtbos, olc.							
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
85	Loralai Member-Unit-III			Ls	gr, cmp, wtbos, olc.							
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		Ls	gr, cmp, wtbos, olc.									
		90	Loralai Member-Unit-III	Ls	gr, cmp, wtbos, olc.							
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											
Ls	gr, cmp, wtbos, olc.											

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
95		Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	L70	DH 11-9	98.0-100.0	2.0	1.18	3.51	<0.01	12.5
			Sh	dk gr, cmp-lam.	L70							
			Ls	gr, cmp, olc.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	Sp>Ca dis. gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
			Ls		L70							
			Sh		L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh		L70							
100		Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	L70	DH 11-10	138.3-138.0	1.7	4.99	0.06	<0.01	30.5
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
105		Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	L70	DH 11-10	138.3-138.0	1.7	4.99	0.06	<0.01	30.5
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
110		Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	L70	DH 11-10	138.3-138.0	1.7	4.99	0.06	<0.01	30.5
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
115		Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	L70	DH 11-10	138.3-138.0	1.7	4.99	0.06	<0.01	30.5
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
120		Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	L70	DH 11-10	138.3-138.0	1.7	4.99	0.06	<0.01	30.5
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
125		Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	L70	DH 11-10	138.3-138.0	1.7	4.99	0.06	<0.01	30.5
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
130		Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	L70	DH 11-10	138.3-138.0	1.7	4.99	0.06	<0.01	30.5
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
135		Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	L70	DH 11-10	138.3-138.0	1.7	4.99	0.06	<0.01	30.5
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
140		Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	L70	DH 11-10	138.3-138.0	1.7	4.99	0.06	<0.01	30.5
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr-bk, cmp-lam.	L70							
			Ls	gr, cmp, wtbos.	L70							
			Sh	dk gr, cmp, mly.	L70							


Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
			L s	gr, cmp, wtbos.								
			S h	dk gr-bk, cmp.	160							
145			L s	gr, cmp, wtbos.	155							
			S h		160							
			L s		160							
			S h		160							
150			L s	gr, cmp, wtbos.	150							
			S h	bk, lam.	160							
			L s	gr, cmp, wtbos.	150							
155			S h	bk, lam.	180							
			L s	gr, cmp, wtbos, oic.	145							
			S h		145							
			L s		150							
			S h	bk~dk gr, lam.	140							
160			L s	gr, cmp, wtbos.	140							
			S h	bk~dk gr, lam.	160							
			Sha	raosm.	155							
			L s		160							
			Lsa	aolc.								
165			L s	gr, cmp, wtbos.	165							
			S h									
			L s									
			Lsa	aolc.	160							
			S h	dk gr, lam-cmp.	130							
			L s									
170			S h	bk, lam.	140							
			L s	gr, cmp, wtbos, fos, oic.	170							
			S h	bk, cmp-lam.	170							
175			Sha	raosm.								
			S h	dk gr, cmp-lam, wly.	170							
			Lsa	aolm.	170							
			L s	gr, cmp, wtbos.	180							
180					170							
					170							
					170							
					170							
			Sha	raosm.	165							
185					170							
					170							
					170							
					170							
					170							
190			L s	gr, cmp, wtbos.	180							
			Sha		180							

Loralai Member-Unit - II

Py dis

Ca vn, vnt, flm

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
195		Loralai Member-Unit-II	Sha	raosm.	260							
			270									
			270									
			270									
			280									
			280									
			280									
			280									
			280									
			280									
200		Loralai Member-Unit-II	Ls	gr-lat gr, etc-fos.	280							
			270									
			280									
			280									
			280									
			280									
			280									
			280									
			280									
			280									
205		Loralai Member-Unit-II	Sha	raosm.	270							
			280									
			270									
			280									
			280									
			280									
			280									
			280									
			280									
			280									
210		Loralai Member-Unit-II	Sha	raosm.	270							
			280									
			270									
			270									
			270									
			270									
			270									
			270									
			270									
			270									
215		Loralai Member-Unit-I	Ls	gr, cmp, wtbos.	270	Ca vn, vnt, flm Py dis						
			270									
			270									
			270									
			270									
			270									
			270									
			270									
			270									
			270									
220		Loralai Member-Unit-I	Ls	gr, cmp, wtbos.	260							
			260									
			260									
			260									
			260									
			260									
			260									
			260									
			260									
			260									
225		Loralai Member-Unit-I	Ls	gr, cmp, wtbos.	250							
			260									
			270									
			270									
			270									
			270									
			270									
			270									
			270									
			270									
230		Loralai Member-Unit-I	Ls	gr, cmp, wtbos.	270							
			270									
			270									
			270									
			270									
			270									
			270									
			270									
			270									
			270									
235		Loralai Member-Unit-I	Sha	dk gr, cap.	150							
			270									
			270									
			270									
			270									
			270									
			270									
			270									
			270									
			270									
240		Loralai Member-Unit-I	Sha	raosm.	255							
			255									
			255									
			255									
			255									
			255									
			255									
			255									
			255									
			255									

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
		Loralai Member-Unit-I	Sh	dk gr, cmp.	Z60	Ca vn, vnt, flm Py dis						
245			Ls	gr, cmp, wtbos.	Z50 Z50 Z60 Z60							
250			Sha	raosm.	Z65							
			Ls	gr, cmp, wtbos, etc.	Z60							
251.0			Sha Sh									
255												
260												
265												
270												
275												
280												
285												
290												

Drill Hole No. : MJP-12
 Location : SURMAI-III
 Coordinate Point : N=1,123,150 E=2,008,247
 Depth : 151.0m
 Drilling Machine : L-38

Elevation : 1,567 m
 Inclination : -60°
 Core Recovery : 94.30%
 Term : JUNE 6 '89 ~ JUNE 11 '89

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
1.1				Non core									
5			L s	gr, cmp, wtbos, oic.									
			Sh	gr bw, cmp.	Z80								
			L s	gr, cmp.	Z80								
			Sh										
			L s	gr, cmp, oic.	Z80								
10			Sh	dk gr, cmp.									
			L s		Z80								
			Sh	gr-dk gr, cmp-lam.	Z70								
			L s	gr, cmp, wtbos.	Z65								
15			Sh										
			L s	gr, cmp.									
			Sh	dk gr, cmp-lam.	Z70								
			L s										
			Sh	dk gr, cmp.	Z80								
			L s		Z80								
20			Sh		Z70								
			L s	gr, cmp, wtbos.	Z70/Z65								
			Sh		Z60/Z70								
			L s	gr, cmp, wtbos.	Z65								
25					Z70								
					Z60								
					Z65								
			Sh		Z80								
			L s	gr, cmp, wtbos, fos.	Z75								
30			Sh		Z80								
			L s		Z80								
			Sh	bk, lam.	Z80								
			L s	gr, cmp, wtbos.	Z70								
			Sh		Z70								
35			L s	gr, cmp, oic.	Z70								
			Sha	raosm.									
			L s	gr, cmp, wtbos.	Z60								
			Sh	bk, lam.	Z45								
40			L s		Z70								
			Sh										

App. 8-6 MJP-12 Drilling Geological Log

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
		Loralai Member - Unit - II	Sh										
			Ls	gr, wtbos, oic. Sp, Ca dis.		DH 12-1	40.4-42.4	2.0	1.12	5.70	0.04	11.0	
43.8			Sh	dk gr, wh Ls nod. Sp wk dis.		DH 12-2	42.4-45.6	1.2	0.93	1.95	0.04	8.0	
45			Ls	gr, cmp.	445 Sp dis	DH 12-1~2	40.4-43.6	3.2	1.05	4.29	0.04	9.1	
			Sh		460 Ga dis								
			Ls		465 Py dis								
			Sh		470								
			Ls		480								
50				Sp>Ga dis.	485 Li	DH 12-3	46.6-52.0	5.4	0.49	1.61	0.08	5.5	
				Ga dis.	470	DH 12-4	52.0-54.4	2.4	0.94	2.98	0.07	10.0	
55				Ga dis.		DH 12-5	54.4-56.3	1.9	3.22	9.22	<0.01	35.5	
				Sp, Ga dis.	460	DF 12-6	56.3-58.3	2.0	0.40	0.23	0.05	11.0	
				Sp, Ga sg dis.		DH 12-7	58.3-59.0	0.7	1.14	8.93	<0.01	12.0	
60			Ls	gr, cmp, wtbos.	470								
				Sp, Ga dis.									
65													
70													
		Sh	dk gr, wly.	460	DH 12-8	59.0-71.3	12.3	0.19	3.82	<0.01	3.5		
		Ls	gr, cmp, wtbos, fos.		BH 12-3~8	46.6-71.3	24.7	0.61	3.52	0.02	7.9		
75		Sh	dk gr, cap-cap.	475									
		Ls	gr, cmp, wtbos.	470									
		Sh	dk gr, lam.	460									
80		Ls	gr, cmp, wtbos. Sp>Ga dis.	470/470	DH 12-9	78.7-80.4	1.7	0.19	3.08	<0.01	3.0		
		Sh	bk, cmp, wtbos.	460									
85		Ls	gr, cmp, wtbos.										
		Sh	bk, lam.	480									
90		Ls	gr, cmp, oic.	480									
		Sh											

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
95	[Lithology symbols]	Loralai Member-Unit-II	Sh	bk, lam.	Z80							
			Ls	gr, cmp, wtbos, fos.	Z70							
95	[Lithology symbols]	Loralai Member-Unit-II	Sh	dk gr, mly, cmp.	Z60/Z70							
			Ls	gr, cmp, oic.	Z70							
100	[Lithology symbols]	Loralai Member-Unit-II	Sh		Z70							
			Ls	gr, cmp, wtbos.	Z80							
100	[Lithology symbols]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	Z55							
			Sh	dk gr-bk, lam, fos.	Z65							
105	[Lithology symbols]	Loralai Member-Unit-II	Sh	dk gr-bk, lam, fos.	Z60							
			Ls	gr, cmp, wtbos, fos.	Z70							
105	[Lithology symbols]	Loralai Member-Unit-II	Sh		Z70							
			Sh		Z80							
110	[Lithology symbols]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	Z70							
			Sh	bk, lam.	Z90							
115	[Lithology symbols]	Loralai Member-Unit-II	Sh	bk, lam.	Z80							
			Ls	gr, cmp, wtbos.	Z70							
120	[Lithology symbols]	Loralai Member-Unit-II	Sh	dk gr, cmp-lam, fos.	Z80							
			Ls	gr, cmp, wtbos, oic.	Z65/Z80							
120	[Lithology symbols]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos, oic.	Z60							
			Sh	dk gr-bk, cmp-lam.	Z65							
125	[Lithology symbols]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos, fos.	Z70							
			Sh		Z70							
125	[Lithology symbols]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos, fos.	Z70							
			Sh	bk, lam.	Z80/Z80							
130	[Lithology symbols]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos, fos.	Z70							
			Sh	bk, lam.	Z50							
130	[Lithology symbols]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	Z60							
			Sh	roasa.	Z60							
135	[Lithology symbols]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos, fos.	Z70							
			Sh	gr-dk gr, cmp-lam.	Z70							
135	[Lithology symbols]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos, fos.	Z70							
			Sh	bk, cmp-lam.	Z80							
140	[Lithology symbols]	Loralai Member-Unit-II	Ls	gr, cmp, wtbos.	Z65							
			Sh		Z70							
140	[Lithology symbols]	Loralai Member-Unit-II	Ls		Z80/Z70							
			Sh	dk gr, lam.	Z70							

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
		Loralai Member-Unit-II	L s	Sh	280	Ca vn, vnt, flm Py dis						
			L s	gr, cmp, wtbos.	280							
			Sh	dk gr, cmp.								
			L s		275							
145			L s	gr, cmp, wtbos, fos, otc.	260/270							
			Sh	bk, lam.	270							
			L s	gr, cmp, wtbos.	280							
150			Sh	dk gr, cmp-lam.	260							
151.0		L s	gr, cmp, wtbos, fos.									
155												
160												
165												
170												
175												
180												
185												
190												

Drill Hole No. : MJP-13
 Location : SURMAI- I
 Coordinate Point : N=1,125,475 E=2,008,315
 Depth : 351.0m
 Drilling Machine : L-38

Elevation : 1,477 m
 Inclination : -90°
 Core Recovery : 97.86%
 Term : MAR. 21 '89 ~ APR. 4 '89

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
2.7	X			Non core									
5			Sh	gr~gr bw, lam.	Z5 Z10 Z15								
			Ls	gr, cap, wtbos, fos.	Z10 Z20 Z40								
10			Sh		Z35 Z40								
			Ls		Z35								
15			Sh	dk gr~gr bw, cmp, mly.	Z30 Z35								
			Ls		Z30								
			Sh		Z30								
20			Ls	gr, cmp.	Z40								
			Sh	dk gr~gr, cmp, mly.	Z40Z35								
			Ls		Z35								
25			Sh	dk gr~gr, cmp, lam.	Z30Z35								
			Ls	gr, cmp, fos.	Z35								
			Sh	dk gr, cmp, lam.	Z30 Z35								
30			Ls	gr, cmp, wtbos.	Z40								
			Sh	bk-dk gr, lam~cap, fos.	Z35 Z40								
35			Ls	dk gr, cmp, mly.	Z30								
			Sh		Z35								
			Ls	gr, cmp, wtbos.	Z30								
40			Sh		Z30								

App. 8-7 MJP-13 Drilling Geological Log

Depth (m)	Geolos. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Kd (n)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
45			S h	dk gr, cmp.	Z40								
			L s	gr, cmp, wtbos.	Z30								
50			L s	gr, cmp, wtbos.	Z30								
			S h	bk-dk gr, lam, fos.	Z35								
55			S h	bk-dk gr, lam, fos.	Z35								
			L s	gr, cmp, wtbos.	Z30								
60			S h	bk-dk gr, lam-cap.	Z30								
			L s	gr, cmp, wtbos.	Z30								
65			S h	bk, lam.	Z20								
			L s	gr, cmp, wtbos.	Z15								
70			S h	bk, lam.	Z30								
			L s	gr, cmp, wtbos.	Z30								
75			S h	bk-dk gr, lam-cap.	Z30								
			L s	gr, cmp, wtbos.	Z30								
80			S h	bk-dk gr, lam-cap.	Z30								
			L s	gr, cmp, wtbos.	Z20								
85			S h	bk-dk gr.	Z30								
			L s	gr, cmp, wtbos.	Z30								
90			S h	gr-bk, lam-cap, sly.	Z40								
			L s	gr, cmp, wtbos.	Z20								
			S h	gr-bk, lam-cap, sly.	Z30								

Loralai Member - Unit - III

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Md (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
95		Loralai Member-Unit-III	Ls	Sh	gr, cmp, wtbos.							
			Sh		cmp-lam, fos.							
			Ls									
			Sh		dk gr, cmp, ls nod, fos.	£30						
			Ls		gr, cmp, wtbos, olc.	£20						
			Sh		bk, lam~cmp.	£40						
			Ls			£30						
			Sh									
			Ls		gr, cmp, wtbos, olc.							
			Sh			£30						
			Ls		bk, lam.	£40						
			Sh									
			Ls		gr, cmp, wtbos, olc, fos.	£45						
			105		Loralai Member-Unit-III	Sh		dk gr~bk, lam~cmp.	£45			
Ls		gr, cmp, wtbos.				£40						
Sh		bk, cmp~lam.										
Ls		gr, cmp, wtbos.										
Sh						£55						
Ls						£60						
Sh						£45						
Ls		gr, cmp, wtbos.										
Sh		dk gr, ls nod.				£50						
Ls		gr, cmp, wtbos.				£45						
Sh		bk~dk gr, lam~cmp.				£45						
Ls		gr, cmp, wtbos, fos.				£30						
Sh						£45						
Ls		gr, cmp, olc.				£45						
115		Loralai Member-Unit-II	Sh		Si dis	£50						
			Ls		massive Ca wh Py patches							
			Sh									
			Ls		Si+Ca vnt, Si dis, Sp>>Ga dis.	£40						

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
145		Loralai Member-Unit-II	Sh	dk gr, cmp, Sp>Ca dis, Si dis, massive Ca.	£40	DH13-6	140.1-140.5	0.4	0.07	0.03	<0.01	1.3	
			L s	gr, cmp, wtbos, fos, etc.	£40	DH13-7	140.5-141.2	0.7	0.77	9.33	<0.01	6.0	
				Sp>Ca wk dis, Si>Ca vnt, Si dis.		DH13-8	141.2-141.6	0.4	<0.01	<0.01	<0.01	<0.5	
150			L s	dk gr, cmp, wly.	£60/£60	DH13-9	141.6-147.0	5.4	0.15	1.01	<0.01	1.3	
				Sp>Ca wk dis, Si>Ca vnt, Si dis.		DH13-10	147.0-148.0	1.0	0.06	0.02	<0.01	1.3	
				Sh		£45	DH13-11	148.0-151.5	3.5	2.06	1.91	<0.01	32.0
bk-dk gr, cmp, cly.			DH13-12	151.5-152.4	0.9		0.96	0.12	0.03	12.0			
155			L s	Ca vn, Si vnt, Sp dis, gr, cmp, wtbos.	£45	DH13-13	152.4-154.0	1.8	0.27	5.53	<0.01	4.0	
				Sp dis, bk, lam.		£40	DH13-14	154.0-155.5	1.5	0.21	0.34	<0.01	2.3
				bre, Ca>Sp dis, Si>Ca vnt.			DH13-15	155.5-155.9	0.4	0.41	0.03	<0.01	7.5
160			L s	gr, cmp, wtbos.	£30	DH13-16	155.9-157.4	1.5	6.85	0.21	<0.01	96.0	
				Ca>Sp dis, Si>Ca vnt, Si dis.		DH13-17	157.4-160.8	3.4	0.62	0.20	<0.01	9.5	
				Sh		DH13-18	160.8-162.5	1.7	0.02	0.02	0.02	0.8	
165			L s	Sp dis.	£30	DH13-19	162.5-164.6	2.1	0.12	5.37	<0.01	7.0	
				gr, cmp, wtbos.		£30	DH13-20	164.6-168.6	4.0	0.11	0.07	<0.01	1.3
				Sp, Ca wk dis, Sp>Ca vnt.			DH13-21	168.6-170.1	1.5	0.06	0.02	<0.01	1.0
170			Sh	Ca>Si vn-vnt, Ca wk dis.	£45	DH13-22	170.1-171.4	1.3	<0.01	0.02	<0.01	0.5	
				dk gr-bk, cap-lam, gr, cmp, wtbos, etc.		DH13-23	171.4-172.4	1.0	0.08	0.02	<0.01	0.8	
				Si>Ca vnt.		DH13-24	172.4-173.0	0.8	0.06	4.71	<0.01	3.0	
175			L s	Sp dis, Si>Ca vn.	£30	DH13-25	173.0-174.6	1.6	<0.01	<0.01	<0.01	<0.5	
				Si>Ca vnt.		DH13-26	174.6-177.1	2.5	<0.01	<0.01	<0.01	0.5	
				dk gr-bk, cap-lam.		DH13-27	177.1-178.9	1.8	<0.01	0.20	<0.01	<0.5	
180			L s	gr, cmp, wtbos.	£40	DH13-28	178.9-180.1	1.2	<0.01	<0.01	<0.01	<0.5	
				Sp dis, Si>Ca vnt.		DH13-29	180.1-181.2	1.1	0.01	<0.01	<0.01	<0.5	
				Si>Ca vnt.		DH13-30	181.2-181.8	0.8	0.05	<0.01	<0.01	<0.5	
185			Sh	dk gr, cmp, wly, Si>Ca vnt.	£40	DH13-30	181.2-181.8	0.8	0.05	<0.01	<0.01	<0.5	
				Sp dis, Si>Ca vn.		DH13-30	181.2-181.8	0.8	0.05	<0.01	<0.01	<0.5	
				gr, cmp, wtbos.		DH13-30	181.2-181.8	0.8	0.05	<0.01	<0.01	<0.5	
190			L s	gr, cmp, wtbos, fos.	£40	DH13-30	181.2-181.8	0.8	0.05	<0.01	<0.01	<0.5	
				Sh		£40	DH13-30	181.2-181.8	0.8	0.05	<0.01	<0.01	<0.5
	dk gr, cmp.	£30		DH13-30		181.2-181.8	0.8	0.05	<0.01	<0.01	<0.5		
190	L s	gr, cmp, wtbos, fos.	£20	DH13-30	181.2-181.8	0.8	0.05	<0.01	<0.01	<0.5			
		Sh		£45	DH13-30	181.2-181.8	0.8	0.05	<0.01	<0.01	<0.5		
		dk gr, cmp.		£45	DH13-30	181.2-181.8	0.8	0.05	<0.01	<0.01	<0.5		

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
195	Loralai Member-Unit-II		L s	gr, cmp, wtbos, fos.	Ca vn, vnt, flm Py dis								
						230							
						230							
						235							
						240							
200			Sh	dk gr, cmp, mly.		240							
			L s	gr, cmp, wtbos.									
			Sh										
			L s			240							
			Sh	dk gr, cmp.		20							
205													
						220							
210			L s	gr, cmp, wtbos, fos. 210.4m, Si+Ca vnt wd 0.5cm. 213.5-213.7m Si+Ca vnt.		215	H Si vn, vnt, dis Py dis						
						215							
						215							
				215									
				215									
		Sh	dk gr, cmp, mly.	215									
220		L s	gr, cmp, wtbos. 220.4-220.5m Si+Ca vnt, Si dis. 221.8m Si+Ca vnt. Ca dis(wd 3cm)	220									
		Sh		215									
		L s		210/215									
225		Sh		240/20									
				230									
		L s	gr, cmp, wtbos, olc.										
230		Sh	dk gr, cmp.	235									
235		L s	gr, cmp, wtbos, olc.										
240													

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
245			L s									
			S h	bk, lam.								
250			L s	gr, cmp, wtbos.								
			S h	dk gr, cmp-lam.								
255												
260			L s	gr, cmp, wtbos.								
265				264.0-267.7m. oic.								
270			S h	dk gr-bk, cmp-lam.								
275			L s	gr, cmp, oic.								
			S h	gr, cmp, wtbos, fos.								
280			S h	gr-dk gr, cmp, wly.								
			L s	bk, cmp-lam.								
285			L s	gr, cmp, wtbos.								
			S h	gr-dk gr, cmp, oic.								
290			S h	bk, lam-cmp.								
			L s	gr, cmp, wtbos.								
			S h	dk gr-bk, cmp-lam.								

Loralai Member-Unit-II

Ca vn, vnt, flm

Py dis

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
			Sh										
			L s	gr, cmp, wtbos.	Z40								
295				my, etc.	Z45								
			S h	bk, lam.	Z45								
			L s	gr, cmp, olc.									
			S h	bk, cmp~lam.	Z45								
300			L s	gr, cmp, olc, fos.									
			Sh		Z60/Z60								
			L s	gr, cmp, wtbos, fos.	Z60								
305			S h	dk gr, cmp~lam.	Z50								
			L s	gr, cmp, wtbos, olc.	Z40								
310			S h	dk gr, cmp, mly.	Z60								
			L s	gr, cmp, wtbos.	Z45								
			S h	dk gr, cmp, mly.	Z45								
			L s	gr, cmp, wtbos.	Z45/Z40								
			S h	dk gr, cmp, mly.	Z40								
315				bk, lam.	Z60								
				gr, cmp, olc.	Z60								
			L s	gr, cmp, wtbos.									
					Z50/Z40								
320			Sh	fos.	1050								
			L s	gr, cmp, wtbos.	Z60								
					Z50								
			Sha	raosm.	Z45								
325			L s	gr, cmp, wtbos.	Z50								
			Lsa	aolm.	Z45								
			L s	gr, cmp, olc.	Z60								
			S h	bk~dk gr, lam.	Z45								
330			L s	gr, cmp, wtbos.	Z45								
			S h	bk~dk gr, lam.	Z45								
			L s	gr, cmp, olc, fos.	Z40								
			S h	bk~dk gr, lam, partly raosm.	Z45/Z45								
335			L s	gr, cmp, olc.	Z50								
			L s	gr, cmp, olc.	Z60								
			Sh		Z50								
			L s	gr, cmp, olc.	Z45								
340			Sha	raosm.	Z45								
					Z45								

Loralai Member-Unit-II

Ca vn, vnt, flm Py dis

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
345		Loralai Member-Unit-II	Sha	raosm.	Z45							
			Ls	gr, cmp, fos.	Z50							
			Sha	raosm.	Z60, Z45							
			Ls	gr, cmp, wtbos.	Z40							
			Sha	raosm.	Z45							
350												
351.0												
355												
360												
365												
370												
375												
380												
385												
390												

Drill Hole No. : MJP-14
 Location : SURMAI - III
 Coordinate Point : N=1,122,689 E=2,008,382
 Depth : 351.0m
 Drilling Machine : L-38

Elevation : 1,641 m
 Inclination : -90°
 Core Recovery : 96.18%
 Term : MAY 14 '89 ~ MAY 30 '89

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
4.1				Non core								
5			L s	gr, cmp, wtbos.	£60							
10			S h	dk gr~dk bw, lam~cmp.								
			L s	gr, cmp, wtbos.								
			S h	dk gr, lam.								
			L s		£55							
			L s		£60							
15			S h	dk gr, lam.	£15							
			L s		£40							
			S h		£10							
20			L s	gr, cmp, wtbos.	£5							
			S h		£10							
25			L s	gr, cmp, mly.	£10							
			S h		£10							
			L s		£45							
			S h		£60£45							
30			L s	gr, cmp, wtbos.	£40							
			S h	bk, lam.								
			L s		£60£45							
			S h	bk~dk gr, lam, cmp.	£50							
35			L s	gr, cmp, wtbos, fos.								
40			L s									

App. 8-8 MJP-14 Drilling Geological Log

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
45		Loralai Member-Unit-III	L s	gr, cmp, wtbos, fos.	Hmz Ca vn, vnt, flm Py dis							
50												
55			Z10									
60			Z5									
65			Z10									
			Z10									
			Z5									
			Z0									
70			Z5									
			Z0									
75			Z10									
			Z0									
	Z5											
80	L s	gr, cmp, wtbos, fos.	Z10									
	S h	dk gr, cmp~lam.										
	L s	gr, cmp, wtbos.	Z70									
	S h	bk, lam~cmp.										
85	L s	gr, cmp, wtbos.	Z35									
	S h	bk~dk gr, lam~cmp.	Z20									
90												

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
95		Loralai Member-Unit-III	Sh	bk-dk gr, lam-omp, fos.	ZnO Z45								
			Ls			Z40							
			Sh			Z45							
			Ls	gr, cmp, wtbos.	Z60								
			Sh	bk, lam.	Z60 Z60								
			Ls		Z35								
			Ls		Z60								
			Ls		Z30								
			Ls	gr, cmp, wtbos.	Z50								
			Sh	bk, lam, fos.	Z30								
			Sh		Z40								
			Sh		Z40								
			Sh		Z40								
			Sh		Z40								
			110		Loralai Member-Unit-III	Ls	gr, wtbos.	Z20					
Sh	bk~dk gr, lam~cmp.	Z10											
Sh		Z20											
Sh		Z5											
Sh		Z25											
Ls		Z0											
Sh		Z0											
Ls	gr, sandy.	Z5 Z50											
Sh		Z10											
Sh	bk, lam~cmp.	Z5											
120		Loralai Member-Unit-III	Sh	bk, lam~cmp.	Z60								
			Ls	gr, cmp~wtbos.	Z50								
			Sh	bk, lam.	Z30								
			Ls	massive Ga, Cp dis.	Z30								
			Ls	Ca, Sg dis.	Z30								
			Sh	bk, lam.	Z10								
			Ls	brc, Sp>>Ga dis.	Z10								
			Ls	gr, cmp, wtbos. Sp>>Ga dis.	Z10								
			Sh	dk gr~bk, lam, fos.	Z15								
			Sh	Si wk dis.	Z30								
130		Loralai Member-Unit-II	Sh	dk gr~bk, lam, fos.	Z45								
			Ls										
			Sh										
			Ls										
			Sh										
			Ls										
			Sh										
			Ls										
			Sh										
			Sh										
135		Loralai Member-Unit-II	Sh										
			Ls										
			Sh										
			Ls										
140		Loralai Member-Unit-II	Sh										
			Ls										
			Sh										
			Ls										

Depth (m)	Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Assay Results						
		Geolog.		Remarks				Wd (m)	Pb %	Zn %	Ba %	Ag g/t		
		Group	Rock											
			S h	dk gr~bk, lam.	Z50									
			L s	gr, cmp, wtbos, fos.	Z40 Z60									
145			S h	bk, lam.	Z40									
			L s	gr, cmp, wtbos.										
			S h	dk gr, cly.										
150			L s	gr, cmp, wtbos. Sp+Ca wk dis.	Z5	DH14-4	149.2-151.5	2.3	3.21	<0.01	<0.01	30.5		
			S h	bk-dk gr, lae.										
			L s	gr, cmp, wtbos, otc.										
155			S h	dk gr~bk, lae~cmp.	Z60									
			L s	gr, cmp, wtbos, otc.	Z60 Z45 Z30 Z45									
160			S h	dk gr~bk, cmp~ lam.	Z40 Z45									
			L s	gr, cmp, wtbos, otc.	Z60 Z60 Z60 Z60 Z45 Z50									
165			S h	dk gr~bk, cmp-lam, fos.	Z45 Z50									
170			L s	gr, cmp, wtbos, otc.										
			S h	dk gr, lam.	Z70									
175			L s	gr, cmp, wtbos.	Z50 Z70 Z70 Z65									
180			S h	dk gr, lam.										
			L s	gr, cmp, wtbos. Si dis.										
			S h	gr, cmp, wtbos. Si dis.										
184.1			L s	gr, cmp, wtbos, otc.	Z30 Z60									
185			S h	dk gr~bk, lam.										
			L s	gr, cmp, wtbos, otc.	Z75 Z55 Z55									
190			S h	dk gr~bk, cmp-lam.										

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
195		Ls	Sh	dk gr-bk, cmp-lam.	45	Py dis						
			Ls	gr, cmp, fos.	45							
200		Ls	Sh		50/45	Ca vn, vnt, flm						
			Ls		70							
205		Ls	Sh	dk gr, cmp.	45							
			Ls		60							
210		Ls	Sh		45/55							
			Ls		50							
215		Ls	Sh		60							
			Ls		45							
220		Ls	Sh	gr, cmp, oic.	45							
			Ls		50							
225		Ls	Sh	dk gr, cmp.	45							
			Ls	gr, cmp, wtbos, oic.	50							
230		Ls	Sh	dk gr, cmp-lam, fos.	45							
			Ls		50							
235		Ls	Sh	gr, cmp, wtbos, dk gr, lam.	45							
			Ls	gr, cmp, wtbos, oic.	50							
240		Ls	Sh	dk gr, lam.	40							
			Ls	gr, cmp, wtbos.	40							
		Ls	Sh	dk gr, lam.	40							
			Ls	gr, cmp, wtbos, fos.	35							
		Ls	Sh	bk-dk gr, lam-cmp, fos.	50							
			Ls		60							
		Ls	Sh	gr, cmp, wtbos.	45							
			Ls	dk gr, cmp.	40							
		Ls	Sh	gr, cmp, wtbos, fos.	30							
			Ls		45/45							
		Ls	Sh	dk gr-bk, cmp-lam, fos.	35							
			Ls	gr, cmp, wtbos.	60							
		Ls	Sh	bk-dk gr, lam-cmp.	45							
			Ls	gr, cmp, wtbos.	65							
		Ls	Sh	dk gr, cmp.	60							
			Ls		60							
		Ls	Sh	gr, cmp, wtbos, fos.	50							
			Ls		60							
		Ls	Sh	bk, lam.	60							
			Ls		70							
		Ls	Sh									
			Ls	gr, cmp, wtbos.								

Loralai Member-Unit-III

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
295			L s	Sp, Ga, Py dis.	L70 L75 L80 L85	DH14-6	290.3-291.1	0.8	0.10	0.03	<0.01	1.5
			Sh									
300			L s	gr, cmp, wtbos.	L40 L45	DH14-7	295.7-296.9	1.2	0.27	0.35	<0.01	2.8
			Sh									
305			L s	Sp, Ga dis.	L45 L40	DH14-8	303.5-305.0	1.5	0.50	1.04	<0.01	4.8
			Sh									
310			L s	gr, cmp, wtbos, fos.	L45 L40	DH14-9	307.2-308.7	1.5	0.25	0.72	<0.01	2.8
			Sh									
315			L s	Sp>Ga wk dis.	L45 L40	DH14-10	310.0-312.0	2.0	0.29	0.10	<0.01	2.5
			Sh									
320			L s	Sp, Ga wk dis.	L45 L40	DH14-11	312.9-313.7	0.8	1.21	2.68	<0.01	12.0
			Sh									
325			L s	Ga wk dis.	L45 L40	DH14-12	314.6-317.3	2.7	0.10	0.36	<0.01	1.3
			Sh	dk gr, cmp Sp dis.								
330			L s	gr, cmp, wtbos, Sp, Ga wk dis.	L80 L40	DH14-13	317.8-318.2	0.4	0.23	0.59	<0.01	2.3
			Sh									
335			L s	gr, cmp, wtbos, Sp, Ga wk dis.	L80 L90	DH14-14	319.0-326.4	7.4	0.66	0.20	<0.01	7.0
			Sh	bk, cap. Ga wk dis. bk, lam.								
340			L s	gr, cmp, olc, Ga dis.	L80 L80	DH14-15						
			Sh	bk, lam.								
			L s	gr, cmp, wtbos.	L80							
			L s	gr, cmp, wtbos.	L80							
			L s	gr, cmp, wtbos.	L80							
			L s	gr, cmp, wtbos.	L80							
			L s	Sp, Ga wk dis.	L80							

Loralai Member-Unit-II

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results					
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t		
		Loralai Member-Unit-II		Sp>Ca dis.	270 Sp dis Ca dis Si vnt. dia Ca vnt. dia Py dis	DH14-15	338.0-341.0	3.0	0.28	0.18	<0.01	3.0		
345			Ls	gr, cmp, wtbos.										
						Sp wk dis.		DH14-16	346.8-347.3	0.5	<0.01	1.69	<0.02	<0.5
350			Sh	bk, lam.										
351.0		Sh	Ls											
355														
360														
365														
370														
375														
380														
385														
390														

Drill Hole No. : MJP-15
 Location : SURMAI-III
 Coordinate Point : N=1,122,689 E=2,008,382
 Depth : 300.2m
 Drilling Machine : L-38

Elevation : 1,641 m
 Inclination : -50°
 Core Recovery : 96.30%
 Term : APR.12 '89 ~ MAY 5 '89

15-1

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
3.1				Non core									
5			Ls	gr, cmp.									
10			Sh	bw~gr, cmp~lam.									
15			Ls		Z30								
			Sh										
			Ls	gr, cmp.	Z45								
			Ls		Z45								
			Sh	bw~gr, cmp~lam.	Z50								
			Ls		Z35								
			Ls		Z30								
25			Sh	gr~bk, cly.									
			Ls		Z35								
			Sh	gr, cmp, wtbos.									
30			Sh		Z30 Z40								
			Ls		Z45								
			Sh	gr bw, cmp.	Z40								
			Ls		Z40								
35			Sh	gr~gr bw, lam~cap.									
			Ls										
			Sh										
			Ls										
40			Ls	gr, cmp, wtbos.									

App. 8-9 MJP-15 Drilling Geological Log

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Yd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
			L s	gr, cmp, wtbos.								
			S h	bk-dk gr, lam-csp.	£70 £35 £30							
45												
					£30							
50												
			L s	gr, cmp, wtbos.	£10							
55												
60												
			S h	bk-dk gr, lam-csp.	£5 £10 £15 £15 £5							
70												
			L s	gr, cmp, wtbos.								
75												
			S h	dk gr, lam.	£5 £5							
80					£0 £5 £0							
			S h	dk gr-bk, lam, fos.	£5							
85					£30 £70							
			L s	gr, cmp, wtbos.	£60							
90			S h									
			L s									
			S h									
			L s									
			S h									

Loralai Member-Unit-III

Py dis
Hmz
Ca vn, vnt, flm

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results					
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t		
		Loralai Member-Unit-III												
					S h	gr, cly.								
95					L s	gr, cmp, wtbos.	£55							
					S h									
					L s	gr, cmp, wtbos.	£60							
100					S h	dk gr-gr, lam-cmp.	£5 £0 £10							
					L s	gr, cmp.	£15							
					S h	dk gr, cmp-lam.	£40							
105					L s	gr, cmp, wtbos.	£10							
					S h	bk-dk gr, lam-cmp.	£40							
110					L s	gr, cmp, wtbos.								
					S h	bk, lam, cly.	£40							
115					S h	bk, lam, cly.	£40							
					S h	bk, lam, cly.	£40							
120					S h		£35							
					L s	gr, cmp.	£10							
125					S h	dk gr, cmp.								
					L s	gr, cmp, wtbos.								
128.0		Loralai Member-Unit-IV												
130					S h	bk~dk gr, lam, fos.	£40 £30 £50 £45 £70 £35							
135							£75							
140														

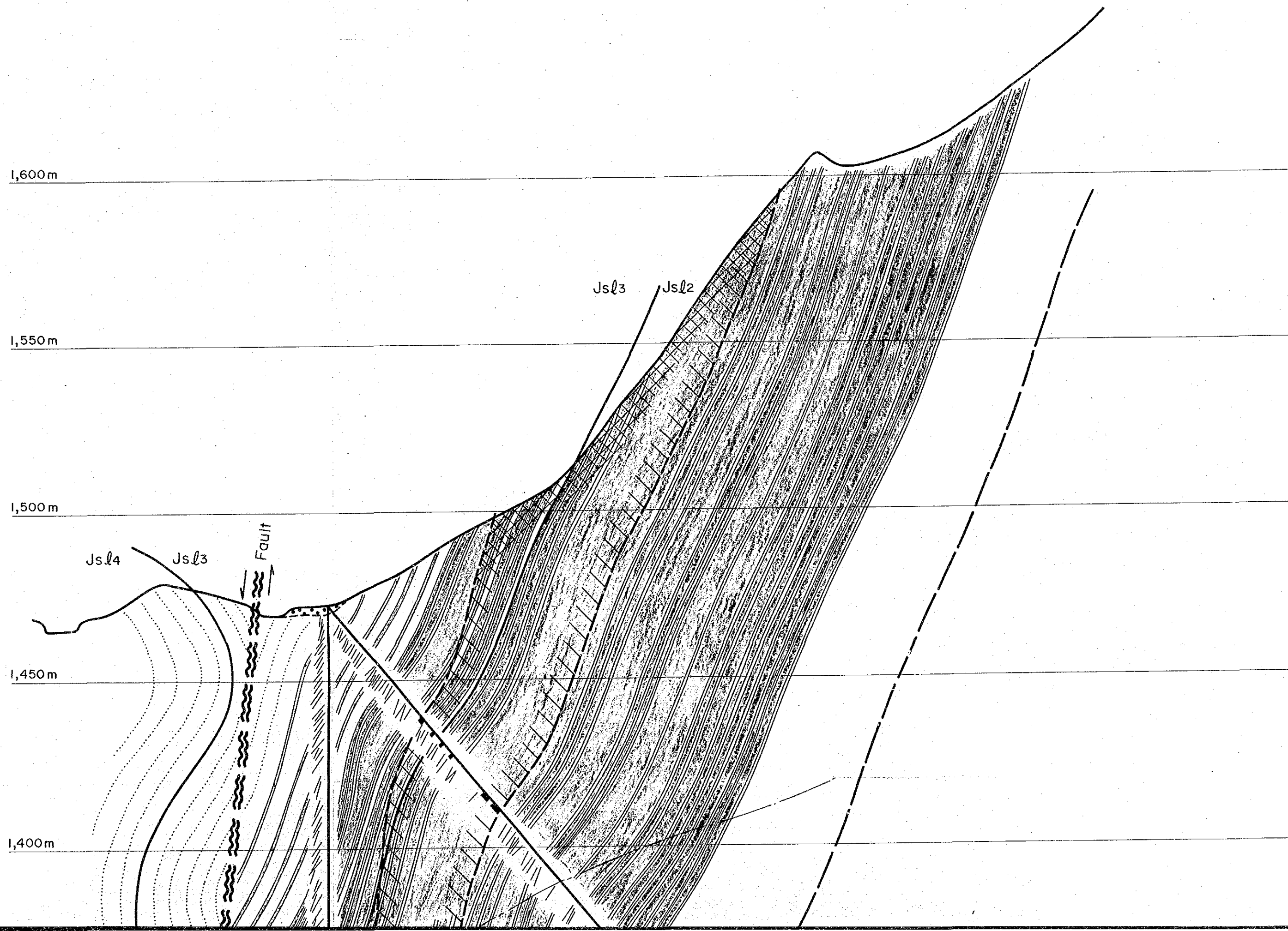
Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
		Loralai Member-Unit-IV	Sh	dk gr, cmp.	770							
			Ls			770						
			Sh									
			Ls	dk gr, cmp.		770						
145			Ls	gr, cmp, oic.								
			Sh	bk, lam.								
			Ls	gr, cmp, wtbos, oic.		740						
150			Sh			730						
			Ls			720/10						
			Lsa	aolm.		715						
		Sh	dk gr-gr, cmp-lam.		745							
155.54.8		Lsa	aolm.									
		Loralai Member-Unit-III	Sh	dk gr-bk, cmp-lam.	745							
			Ls	gr, oic.		780						
160			Sh			780						
			Ls			740						
			Sh	bk-dk gr, lam-cmp.		790						
			Ls	gr, cmp, fos, oic.								
165			Sh	gr, cmp, fos								
			Ls	dk gr-bk, cly.								
			Sh	bk-dk gr, lam-cmp.		750						
			Ls	gr, cmp, wtbos.		760						
170		Sh			760							
		Ls	gr, cmp, wtbos.									
		Sh	bk~dk gr, lam.		750							
		Ls			745							
		Sh										
175		Ls	gr, wtbos.		745							
		Sh	dk gr, cmp.		740							
		Ls	gr, cmp, wtbos.		745							
		Sh			750							
180		Ls	gr, cmp, wtbos.		750							
		Sh	bk, lam.		750							
		Ls	gr, cmp, wtbos.		750							
185		Sh	dk gr, cmp.									
		Ls										
		Sh										
		Ls	gr, cmp, wtbos.		760/70							
		Sh			755							
		Ls	gr, cmp, oic.		750							
190		Sh	bk~dk gr, cmp.									

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results						
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t			
195	[Lithology symbols]	Loralai Member-Unit-III	Sh	L s.	gr. comp. wtbos. partly olc.										
				Sh			260								
				L s			260								
							250								
				Sh a	raosa.		240								
				Sh	bk, lam.		270/250								
				L s	gr. comp. wtbos. Si+Ca vny.		275								
				Sh	bk, lam.		245								
				L s	gr. comp. wtbos. Sp, Ca dis. Ca+Si vnt.		260								
							245/260								
200	[Lithology symbols]	Loralai Member-Unit-III		L s											
				Sh			260/260								
				L s	dk gr. lam.										
				Sh											
				L s	gr. comp. wtbos. olc.										
				Sh	Ca+Si vnt.		245								
				L s	gr. comp. wtbos.		260								
				L s	gr. comp. olc.		270								
				Sh											
				L s			245								
205	[Lithology symbols]	Loralai Member-Unit-III		Sh	dk gr. comp.										
				L s	gr. comp. wtbos. olc.										
				L s	gr. comp. wtbos. Si dis.		245								
				L s	gr. comp. wtbos.		260								
				L s	gr. comp. olc.		270								
				Sh											
				L s	dk gr. comp.		245								
				Sh	Sp, Ca dis.		245								
				L s	gr. comp. wtbos. Si dis.		245								
				L s	gr. comp. wtbos. olc.		230								
210	[Lithology symbols]	Loralai Member-Unit-III		Sh	bk, lam.										
				L s	gr. comp. wtbos. olc.										
				L s	gr. comp. wtbos. Si dis.		260								
				Sh	Sp wk dis.		230								
				L s	gr. comp. wtbos. olc.		230								
				Sh	Ca+Si vnt. Ca wk dis.		240								
				L s	gr. comp. wtbos. olc.		215								
				Sh	Ca+Si vnt.		230								
				L s	gr. comp. wtbos. olc.		215								
				L s	gr. comp. wtbos. olc.		230								
215	[Lithology symbols]	Loralai Member-Unit-III		Sh	Sp+Ca wk dis.										
				L s	gr. comp. wtbos. olc.										
				L s	gr. comp. wtbos. olc.		230								
				Sh	bk, lam.		260								
				L s	gr. comp. wtbos. olc.		230								
				Sh	Sp wk dis.		230								
				L s	gr. comp. wtbos. olc.		215								
				Sh	Ca+Si vnt. Ca wk dis.		240								
				L s	gr. comp. wtbos. olc.		215								
				L s	gr. comp. wtbos. olc.		230								
220	[Lithology symbols]	Loralai Member-Unit-III		Sh	Ca+Si vnt.										
				L s	gr. comp. wtbos. olc.										
				L s	gr. comp. wtbos. olc.		230								
				Sh	Ca+Si vnt. Ca wk dis.		240								
				L s	gr. comp. wtbos. olc.		215								
				Sh	Ca+Si vnt. Ca wk dis.		230								
				L s	gr. comp. wtbos. olc.		215								
				Sh	Ca+Si vnt. Ca wk dis.		240								
				L s	gr. comp. wtbos. olc.		215								
				L s	gr. comp. wtbos. olc.		230								
225	[Lithology symbols]	Loralai Member-Unit-III		L s	gr. comp. wtbos. fos.										
				L s	225.6m, 226.3m. 226.8-227.7m Si+Ca wk vnt.		230								
				L s	225.2m, 227.3m Sp wk dis.		230								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
230	[Lithology symbols]	Loralai Member-Unit-III		L s	gr. comp. wtbos.										
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
235	[Lithology symbols]	Loralai Member-Unit-III		L s	gr. comp. wtbos.										
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
240	[Lithology symbols]	Loralai Member-Unit-III		L s	gr. comp. wtbos.										
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
240	[Lithology symbols]	Loralai Member-Unit-III		L s	gr. comp. wtbos.										
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
240	[Lithology symbols]	Loralai Member-Unit-III		L s	gr. comp. wtbos.										
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
240	[Lithology symbols]	Loralai Member-Unit-III		L s	gr. comp. wtbos.										
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
				L s	gr. comp. wtbos.		230								
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.		260								
240	[Lithology symbols]	Loralai Member-Unit-III		L s	gr. comp. wtbos.										
				L s	235.5-235.9m 237.1-237.6m Ca vn. Sp wk dis.										

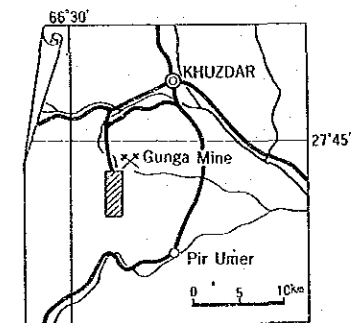
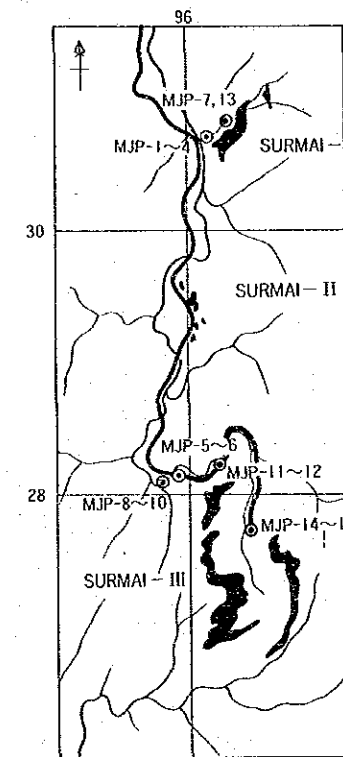
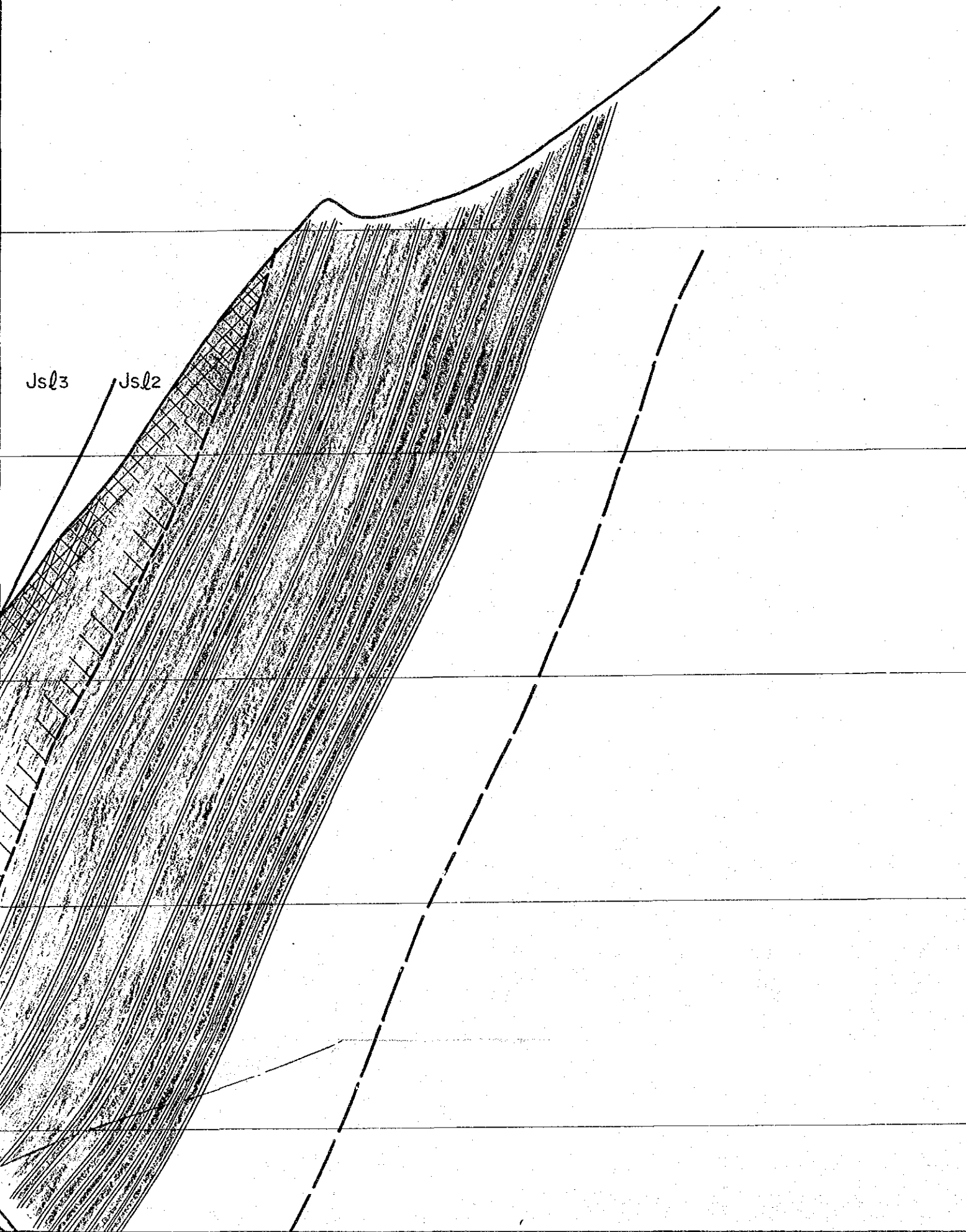
Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Nd (m)	Assay Results			
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t
245			L s	Sp>Ca wk dis.		DH15-1 1	239.4-241.5	2.1	0.15	0.07	<0.01	1.0
				Sp>Ca wk dis.		DH15-1 2	241.5-244.4	2.9	2.25	1.77	<0.01	20.2
				Sp>Ca dis.		DH15-1 3	244.4-245.5	1.1	1.52	13.90	<0.01	18.2
				Ca vnt.		DH15-1 4	245.5-245.9	0.4	1.26	1.77	<0.01	9.2
				Sp>Ca dis.		DH15-1 5	245.9-246.7	0.8	0.66	15.90	<0.01	7.2
250			L s	gr, cmp, wtbos.		DH15-1 6	248.7-251.2	4.5	0.94	1.13	<0.01	9.5
				Sp>Ca wk dis.		DH15-1 7	251.2-251.8	0.8	0.16	0.13	<0.01	1.5
255			L s	Ca vn, wk Ls bre (Sp wk dis).		DH15-1 8	251.8-255.3	3.5	1.15	0.21	<0.01	15.5
				Sp>Ca wk dis.		DH15-1 9	255.3-258.4	3.1	0.83	0.75	<0.01	9.2
Sp>Ca wk dis. Si>Ca vn-vnt.	DH15-2 0	258.4-258.7	0.3	0.48	1.54							
260			S h	Si vnt.		DH15-10-20	238.8-258.7	19.9	1.04	2.05	<0.01	10.9
				dk gr, lam-cmp.		L s	gr, cmp, wtbos.					
265			S h	bk-dk gr, lam-cmp.								
				L s		gr, cmp, wtbos.						
270			L s	gr, cmp, wtbos.								
				S h								
275			S h	bk lam.								
				L s								
280			L s	gr, cmp, wtbos.								
				Ca+Sp very wk dis. Ca, Si vnt.								
285			S h	dk gr-bk, lam.								
				L s								
290			L s	Ca very wk dis.								
				DH15-2 3								
						DH15-						

Loralai Member-Unit-II

Depth (m)	Geolog. Log	Lithology			Mineralization etc	Sample No.	Depth (m)	Wd (m)	Assay Results				
		Group	Rock	Remarks					Pb %	Zn %	Ba %	Ag g/t	
295	Loralai Member-Unit-II	L s		Sp+Ca dis. ϕ 1-2mm Si+Ca vnt.	Z85								
				gr, cmp, wtbos.			DH15-24	288.8-295.1	6.3	3.54	10.10	<0.01	37.2
				Sp+Ca dis.	Z60		DH15-25	295.1-296.2	1.1	2.47	8.50	<0.02	27.2
				Sp+Ca wk dis.			DH15-26	296.2-297.3	1.1	0.34	5.55	<0.01	5.7
				Sp+Ca dis.	Z30		DH15-27	297.3-298.1	0.8	3.24	6.14	<0.02	34.7
300							Ca>Sp very wk dis. Si very wk vnt.						
300.2						DH15-28	298.1-300.2	2.1	0.03	0.10	<0.02	0.5	
					SP dis Ca dis Si vnt. dis Ca vnt. film	DH15-21-28	277.1-300.2	23.1	1.30	4.03	<0.02	14.0	
305													
310													
315													
320													
325													
330													
332.5													
335													
340													



REPORT ON THE COOPERATIVE MINERAL EXPLORATION
 IN
 KHUZDAR AREA OF BALUCHISTAN
 IN
 THE ISLAMIC REPUBLIC OF PAKISTAN
 PHASE III
 GEOLOGIC PROFILE OF THE SURMAI-I
 (MJP-7, MJP-13)

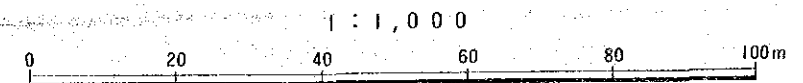


- SURMAI Survey Area
- ⊙ Drilling site

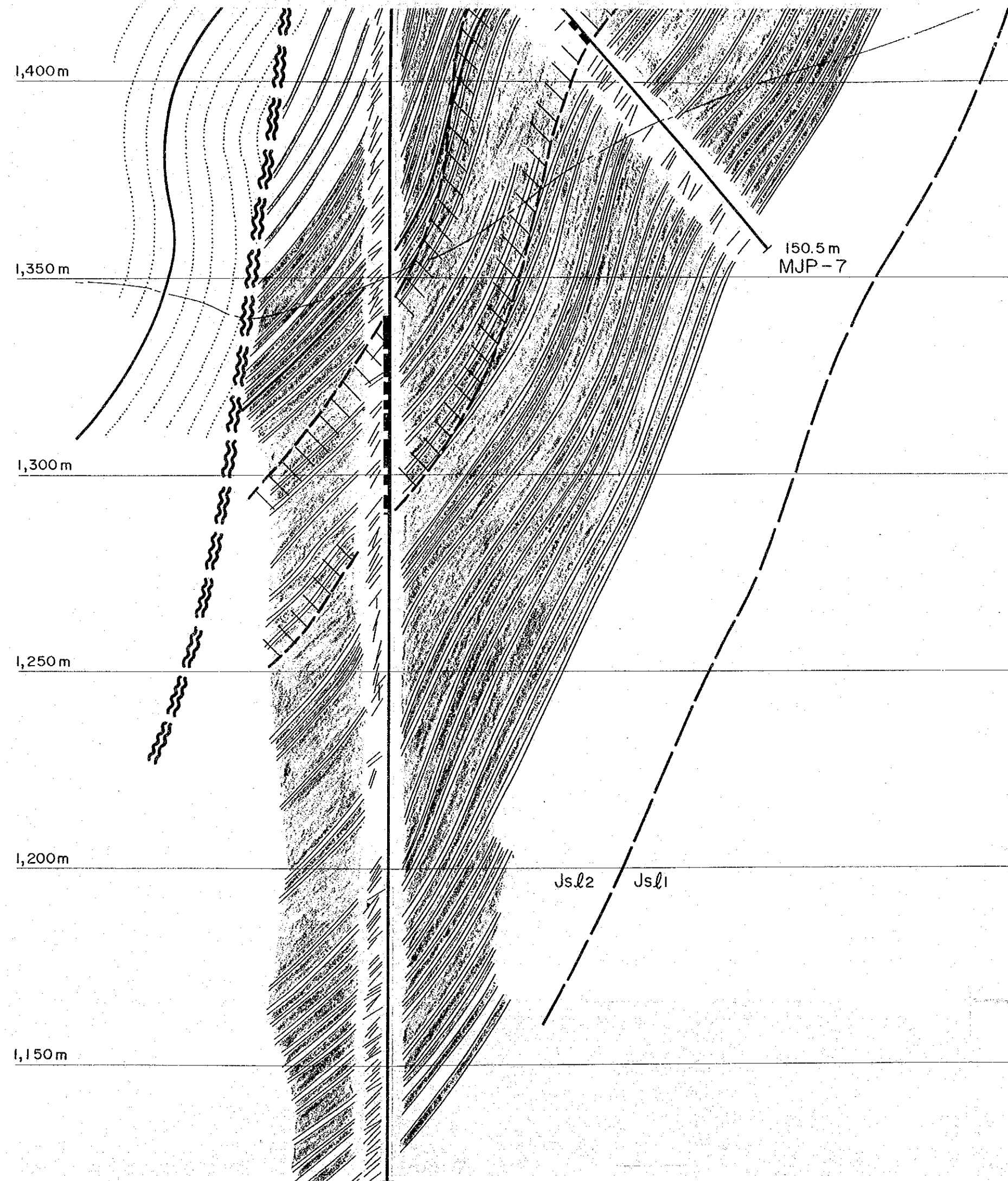
0 0.5 1.0km

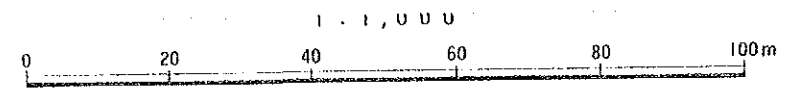
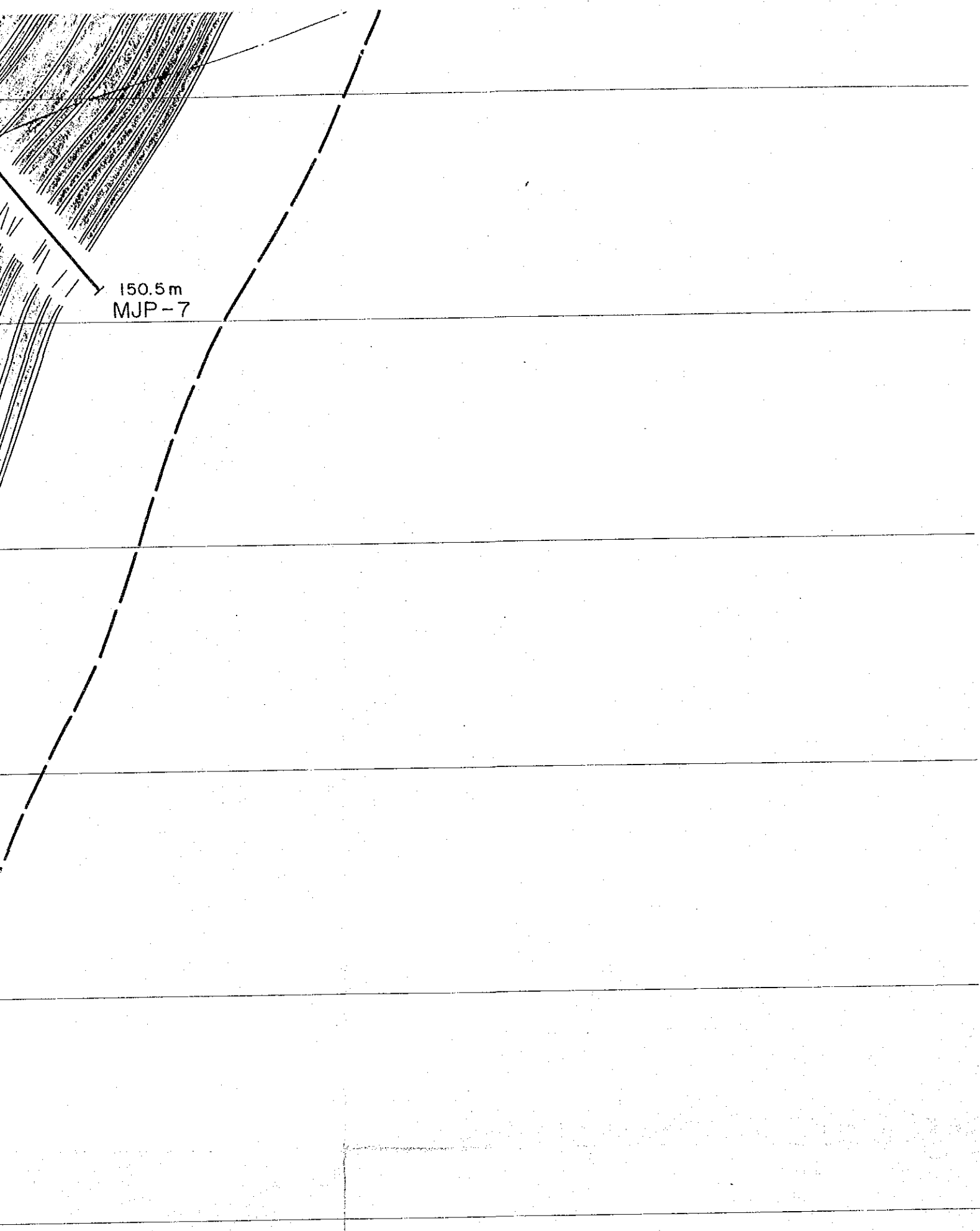
NOVEMBER • 1989

JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN


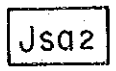
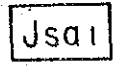
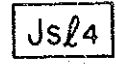
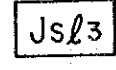
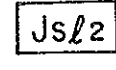
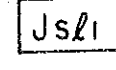
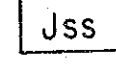







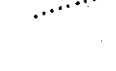




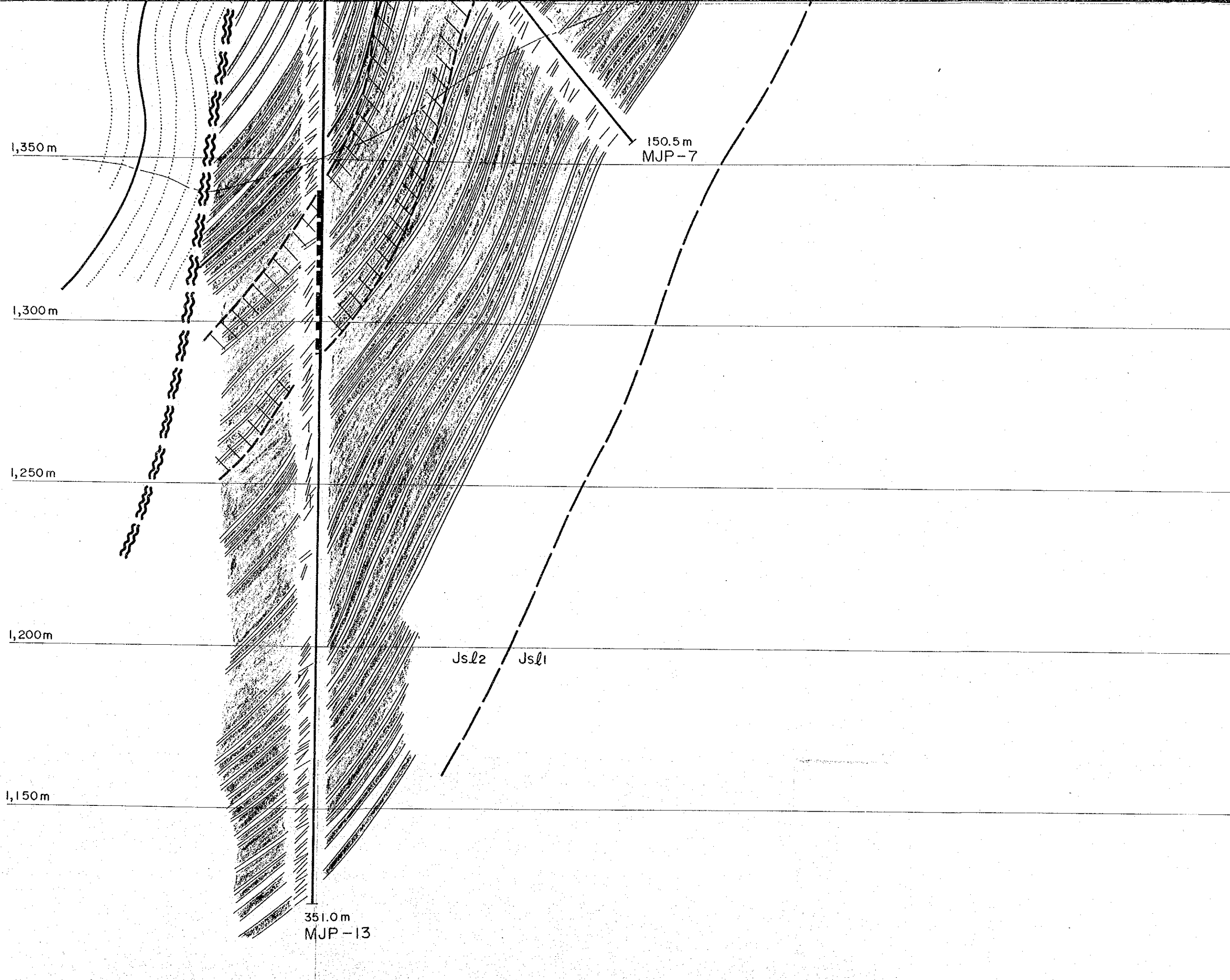
LEGEND

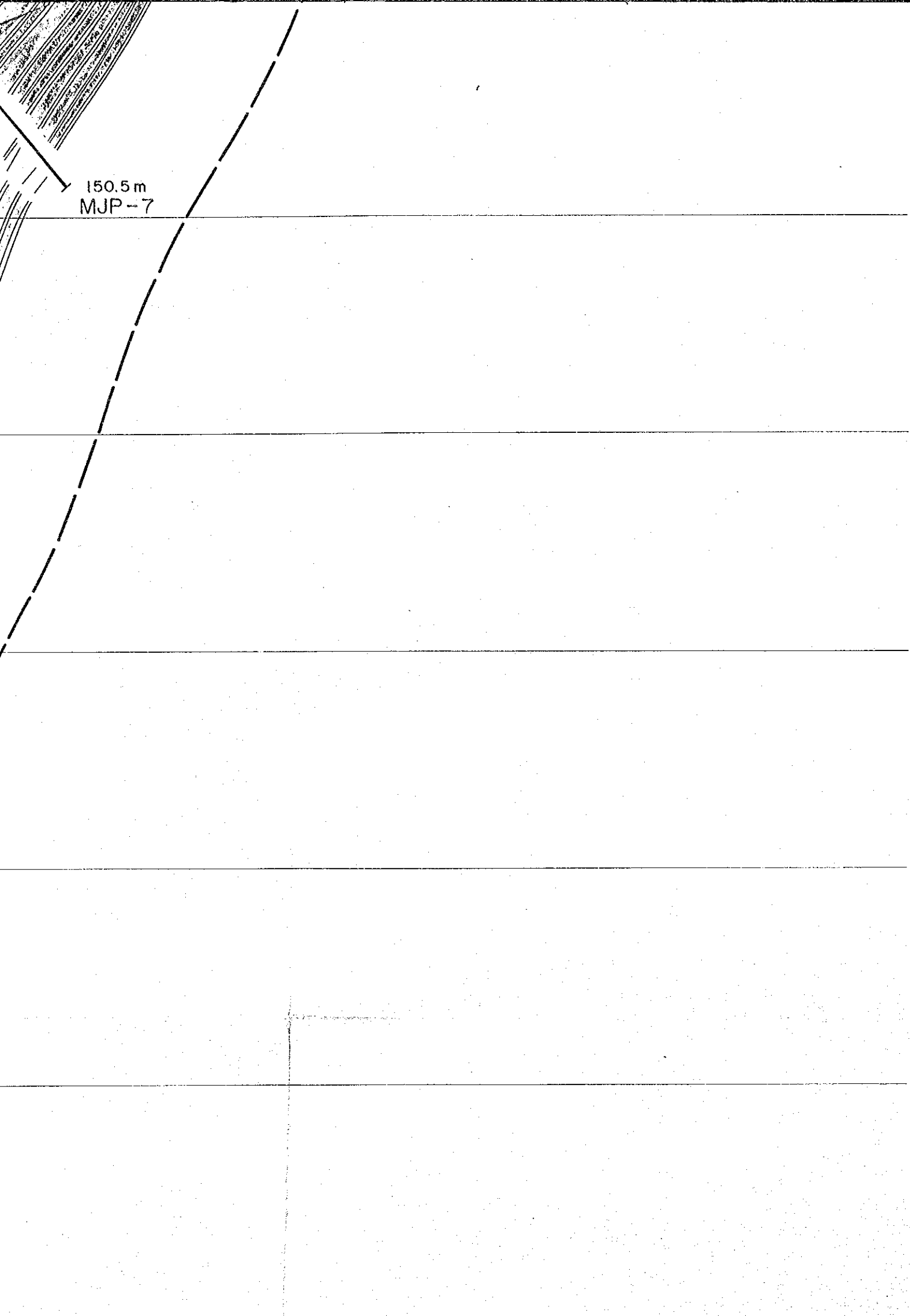





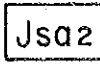
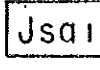
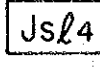
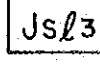
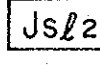
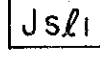
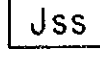

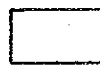




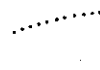
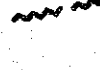


LEGEND

-  : Talus
-  : Anjira Member II
-  : Anjira Member I
-  : Loralai Member IV
-  : Loralai Member III
-  : Loralai Member II
-  : Loralai Member I
-  : Spingwar Member
-  : Limestone
-  : Shale
-  : Mineralization (Oxide, Gossan)
-  : Mineralization (Sulphide)
-  : Mineralized zone (expected)
-  : Boundary of Units
-  : Bedding traces
-  : Fault
-  : Dip
-  : Water table (Supposed)





LEGEND

-  : Talus
-  : Anjira Member II
-  : Anjira Member I
-  : Loralai Member IV
-  : Loralai Member III
-  : Loralai Member II
-  : Loralai Member I
-  : Spingwar Member
-  : Limestone
-  : Shale
-  : Mineralization (Oxide, Gossan)
-  : Mineralization (Sulphide)
-  : Mineralized zone (expected)
-  : Boundary of Units
-  : Bedding traces
-  : Fault
-  : Dip
-  : Water table (Supposed)