

付 表

付表 1. 岩石薄片・X線回折分析・鈦石研磨片資料一覽

Sample No.	Locality	Polish	Thin section	X-ray	Note
MJI-13-1	85.35	0	-	-	Ore
MJI-13-2	85.20	0	-	-	Ore
MJI-13-3	85.80	0	-	-	Ore
MJI-13-4	84.85	-	-	0	Skarn
MJI-13-5	101.15	0	-	-	Ore
MJI-13-6	101.50	0	-	-	Ore
MJI-13-9	222.75	-	-	0	Skarn/ore
MJI-13-11	256.10	0	-	0	Ore
MJI-13-12	258.90	-	-	0	Skarn
MJI-13-13	262.40	0	-	-	Ore
MJI-13-14	263.00	0	-	0	Ore
MJI-13-15	263.80	0	-	0	Ore
MJI-12-1	18.30	-	0	-	Alkaline intrusives
MJI-12-3	37.20	-	0	-	Skarn
MJI-12-4	39.80	-	-	0	Grossular skarn
MJI-12-5	51.30	-	0	0	Andradite skarn?
MJI-12-6	60.85	-	0	0	Epidote-Biotite
MJI-12-9	149.80	0	-	-	Ore
MJI-12-10	150.00	0	-	-	Ore
MJI-12-11	150.20	0	-	-	Ore
MJI-12-12	150.42	0	-	-	Ore
MJI-12-13	150.70	-	-	0	Skarn/Igneous rock?
MJI-12	286.60	0	-	-	Sphalerite-Hedenbergite
MJI-18-1	74.20	0	-	-	Ore
MJI-18-2	79.80	0	-	-	Ore
MJI-18-3	143.20	0	-	-	Ore
MJI-18-4	144.55	0	-	-	Ore
MJI-18-5	133.50	-	-	0	Altered igneous rock
MJI-19-2	103.30	-	-	0	Altered igneous rock
MJI-20	67.80	-	0	0	Ore
MJI-20	123.20	-	0	-	Fossil
MJI-21	44.25	-	0	0	Ore
MJI-21	49.50	-	0	0	Skarn/Igneous rock?
MJI-21	53.10	0	0	0	Ore
MJI-23	15.40	-	0	-	
MJI-23	38.80	-	0	0	Skarn
MJI-23	41.10	-	-	0	Skarn
MJI-23	41.85	-	-	0	Skarn
MJI-23	42.65	-	-	0	Skarn
MJI-23	66.20	0	-	-	Ore
MJI-23	66.30	0	-	-	Ore
MJI-23	267.35	-	0	0	Skarn(Hedenbergite)
MJI-11-1	33.00	-	0	-	Skarn
MJI-11-11	338.50	-	0	0	Recrystalline tuff
Total		21	14	22	

付表2 鉍石分析結果表(1)

No.	Sample No.	Drilling No.	Depth (m)	Wd (m)	Au g/t	Ag g/t	Cu %	Pb %	Zn %
1	MJI-12-01	MJI-12	149.52~150.50	0.98	0.14	350.	3.78	6.38	25.00
2	MJI-12-02	MJI-12	285.15~285.30	0.15	<0.07	11.5	0.06	0.13	1.66
3	MJI-12-03	MJI-12	286.00~286.30	0.30	<0.07	15.0	0.03	0.06	1.49
4	MJI-12-04	MJI-12	286.30~287.10	0.80	0.34	77.0	0.09	0.20	9.20
5	MJI-12-05	MJI-12	288.00~289.00	1.00	<0.07	1.7	<0.01	<0.01	0.11
6	MJI-12-06	MJI-12	289.00~289.35	0.35	<0.07	1.0	<0.01	<0.01	0.04
7	MJI-12-07	MJI-12	289.90~290.15	0.25	<0.07	1.0	0.01	0.08	1.00
8	MJI-13-01	MJI-13	85.35~85.85	0.50	0.14	378.	3.20	4.20	14.50
9	MJI-13-02	MJI-13	101.13~101.53	0.40	0.21	1,220.	0.79	5.42	36.40
10	MJI-13-03	MJI-13	106.85~107.05	0.20	<0.07	27.5	0.04	0.22	0.85
11	MJI-13-04	MJI-13	108.15~108.35	0.20	<0.07	22.5	0.03	0.20	0.39
12	MJI-13-05	MJI-13	222.75~223.10	0.35	<0.07	62.0	1.42	0.15	5.22
13	MJI-13-16	MJI-13	242.25~242.85	60	<0.07	9.0	0.06	0.09	1.79
13	MJI-13-06	MJI-13	255.60~256.60	1.00	0.07	19.5	0.48	0.08	5.22
14	MJI-13-07	MJI-13	256.60~257.15	0.55	<0.07	8.5	0.08	0.07	1.26
15	MJI-13-08	MJI-13	257.15~258.15	1.00	<0.07	3.9	0.01	0.04	0.16
16	MJI-13-09	MJI-13	258.15~259.50	1.35	<0.07	1.7	<0.01	0.04	0.04
17	MJI-13-10	MJI-13	259.50~260.50	1.00	<0.07	7.5	0.33	0.04	1.54
18	MJI-13-11	MJI-13	260.50~260.80	0.30	<0.07	4.4	0.05	0.04	3.05
19	MJI-13-13	MJI-13	261.50~262.50	1.00	<0.07	15.0	0.16	0.07	9.20
20	MJI-13-14	MJI-13	262.50~263.50	1.00	<0.07	18.0	0.10	0.07	16.30
21	MJI-13-15	MJI-13	263.50~264.43	0.93	<0.07	15.0	0.25	0.05	10.30
22	MJI-18-01	MJI-18	74.03~74.50	0.47	0.35	1,730.	2.52	16.10	34.7
23	MJI-18-02	MJI-18	79.60~80.20	0.60	0.21	780.	7.00	15.70	11.30
24	MJI-18-03	MJI-18	81.60~81.75	0.15	0.07	590.	6.10	27.8	14.40
25	MJI-18-04	MJI-18	95.15~95.45	0.30	0.07	65.0	0.26	1.90	2.74
26	MJI-18-05	MJI-18	98.20~98.55	0.35	0.21	7.0	0.02	0.11	0.09
27	MJI-18-06	MJI-18	101.20~101.50	0.30	<0.07	265.	1.38	4.68	7.05
28	MJI-18-07	MJI-18	125.40~125.50	0.10	<0.07	7.5	0.03	0.13	0.13
29	MJI-18-08	MJI-18	126.15~126.25	0.10	<0.07	5.5	0.01	0.06	0.04

付表2 鉍石分析結果表(2)

No.	Sample No.	Drilling No.	Depth (m)	Wd (m)	Au g/t	Ag g/t	Cu %	Pb %	Zn %
30	MJI-18-09	MJI-18	132.90~133.30	0.40	<0.07	4.4	0.01	0.04	0.03
31	MJI-18-10	MJI-18	133.90~134.90	1.00	<0.07	2.3	<0.01	0.02	0.03
32	MJI-18-11	MJI-18	134.90~135.90	1.00	<0.07	1.0	<0.01	0.01	0.01
33	MJI-18-12	MJI-18	135.90~136.20	0.30	<0.07	1.0	<0.01	<0.01	0.01
34	MJI-18-13	MJI-18	136.70~137.70	1.00	0.27	2.3	<0.01	0.06	0.01
35	MJI-18-14	MJI-18	140.10~140.35	0.25	1.10	6.1	<0.01	<0.01	0.08
36	MJI-18-15	MJI-18	140.60~140.75	0.15	1.27	276.	0.04	2.96	33.1
37	MJI-18-16	MJI-18	142.70~142.92	0.22	0.27	92.0	0.13	1.51	3.47
38	MJI-18-17	MJI-18	142.92~143.92	1.00	0.07	470.	0.04	19.00	27.7
39	MJI-18-18	MJI-18	143.92~144.92	1.00	0.07	88.0	0.12	4.34	6.41
40	MJI-18-19	MJI-18	144.92~145.15	0.23	0.27	290.	0.13	21.9	16.30
41	MJI-18-20	MJI-18	133.30~133.90	0.60	<0.07	1.0	<0.01	<0.01	0.02
42	MJI-18-21	MJI-18	139.10~140.10	1.00	<0.07	2.3	<0.01	<0.01	0.01
43	MJI-18-22	MJI-18	140.35~140.60	0.25	0.07	2.5	<0.01	<0.01	0.01
44	MJI-18-23	MJI-18	140.75~141.75	1.00	0.41	3.3	<0.01	0.01	0.05
45	MJI-18-24	MJI-18	141.75~142.70	0.95	<0.07	2.3	<0.01	<0.01	0.01
46	MJI-19-03	MJI-19	113.70~113.85	0.15	<0.07	5.5	<0.01	0.33	0.31
47	MJI-20-01	MJI-20	75.60~75.85	0.25	<0.07	1.3	<0.01	<0.01	0.01
48	MJI-21-01	MJI-21	48.60~49.60	1.00	<0.07	0.5	<0.01	<0.01	0.08
49	MJI-21-02	MJI-21	49.60~49.80	0.20	<0.07	1.3	<0.01	0.03	0.19
50	MJI-21-03	MJI-21	49.80~50.50	0.70	0.07	148.0	1.71	0.72	18.60
51	MJI-21-04	MJI-21	52.20~52.60	0.40	<0.07	107.0	0.05	0.37	4.78
52	MJI-21-05	MJI-21	52.80~53.70	0.90	<0.07	136.0	0.04	0.54	18.60
53	MJI-21-06	MJI-21	54.15~54.20	0.05	0.14	940.	0.46	4.06	47.0
54	MJI-21-07	MJI-21	131.30~131.70	0.40	<0.07	9.0	<0.01	0.04	0.38
55	MJI-21-08	MJI-21	131.70~132.70	1.00	<0.07	2.3	<0.01	<0.01	0.09
56	MJI-21-09	MJI-21	132.70~133.20	0.50	<0.07	1.7	<0.01	<0.01	0.04
57	MJI-21-10	MJI-21	133.20~133.60	0.40	<0.07	91.0	0.12	0.50	6.94
58	MJI-21-11	MJI-21	248.90~249.20	0.30	<0.07	4.4	<0.01	0.01	0.55

付表2 鉍石分析結果表(3)

No.	Sample No.	Drilling No.	Depth (m)	Wd (m)	Au g/t	Ag g/t	Cu %	Pb %	Zn %
59	MJI-21-12	MJI-21	249.20~250.20	1.00	<0.07	1.3	0.01	<0.01	0.04
60	MJI-21-13	MJI-21	250.20~250.70	0.50	<0.07	1.7	0.05	<0.01	0.04
61	MJI-21-14	MJI-21	260.30~260.70	0.40	<0.07	21.5	0.28	0.05	6.72
62	MJI-21-15	MJI-21	260.70~261.70	1.00	<0.07	1.3	<0.01	<0.01	0.03
63	MJI-21-16	MJI-21	43.30~44.50	1.20	<0.07	2.8	<0.01	<0.01	0.04
64	MJI-21-17	MJI-21	237.80~238.80	1.00	<0.07	1.0	<0.01	<0.01	0.03
65	MJI-21-18	MJI-21	238.80~239.80	1.00	<0.07	1.0	<0.01	<0.01	0.02
66	MJI-21-19	MJI-21	239.80~240.15	0.35	<0.07	1.7	<0.01	<0.01	0.02
67	MJI-22-01	MJI-22	93.00~94.00	1.00	<0.07	0.5	<0.01	<0.01	0.01
68	MJI-22-02	MJI-22	94.00~94.55	0.55	<0.07	1.3	<0.01	<0.01	0.01
69	MJI-22-03	MJI-22	125.60~126.60	1.00	<0.07	0.5	<0.01	<0.01	0.01
70	MJI-22-04	MJI-22	126.60~127.60	1.00	<0.07	0.5	<0.01	<0.01	0.01
71	MJI-22-05	MJI-22	127.60~128.60	1.00	<0.07	0.8	<0.01	<0.01	0.01
72	MJI-22-06	MJI-22	128.60~128.85	0.25	<0.07	1.0	<0.01	<0.01	0.01
73	MJI-22-07	MJI-22	128.85~129.85	1.00	<0.07	5.3	<0.01	0.02	1.99
74	MJI-22-08	MJI-22	129.85~130.35	0.50	<0.07	1.0	<0.01	<0.01	0.04
75	MJI-22-09	MJI-22	131.80~131.90	0.10	<0.07	11.5	0.01	0.06	3.42
76	MJI-22-10	MJI-22	134.00~134.15	0.15	<0.07	12.5	0.03	0.06	4.52
77	MJI-22-11	MJI-22	134.15~135.15	1.00	<0.07	1.7	0.02	<0.01	0.05
78	MJI-22-12	MJI-22	135.15~135.55	0.40	<0.07	1.9	0.02	0.01	0.05
79	MJI-22-13	MJI-22	140.86~141.06	0.20	0.21	40.5	0.04	0.16	20.1
80	MJI-22-14	MJI-22	141.06~142.06	1.00	<0.07	0.8	<0.01	<0.01	0.07
81	MJI-22-15	MJI-22	142.06~143.06	1.00	<0.07	<0.3	<0.01	<0.01	0.02
82	MJI-22-16	MJI-22	143.06~143.15	0.09	<0.07	<0.3	<0.01	<0.01	0.01
83	MJI-22-17	MJI-22	280.85~281.85	1.00	<0.07	26.8	0.57	0.06	10.70
84	MJI-22-18	MJI-22	281.85~282.13	0.28	<0.07	9.0	0.23	0.01	6.10
85	MJI-22-19	MJI-22	282.13~283.13	1.00	<0.07	1.0	<0.01	<0.01	0.07
86	MJI-22-20	MJI-22	285.70~286.70	1.00	<0.07	1.0	<0.01	<0.01	0.03
87	MJI-22-21	MJI-22	286.70~287.55	0.85	<0.07	1.0	<0.01	0.10	0.02
88	MJI-23-01	MJI-23	65.95~66.35	0.40	<0.07	383	0.50	1.90	29.2

付表2 鉍石分析結果表(4)

No.	Sample No.	Drilling No.	Depth (m)	Wd (m)	Au g/t	Ag g/t	Cu %	Pb %	Zn %
89	MJI-23-02	MJI-23	93.70~94.32	0.62	<0.07	13.3	0.15	0.04	4.26
90	MJI-23-03	MJI-23	160.37~160.85	0.48	<0.07	13.8	0.11	0.06	1.54
91	MJI-23-04	MJI-23	160.85~161.50	0.65	<0.07	63.5	0.29	0.17	39.8
92	MJI-23-05	MJI-23	161.50~162.50	1.00	<0.07	1.9	<0.01	<0.01	0.17
93	MJI-23-06	MJI-23	162.50~163.35	0.85	<0.07	2.5	<0.01	<0.01	0.17
94	MJI-23-07	MJI-23	163.35~164.30	0.95	<0.07	9.5	0.06	0.02	0.69
95	MJI-23-08	MJI-23	164.30~164.48	0.18	<0.07	63.5	2.36	0.08	14.40
96	MJI-23-09	MJI-23	267.15~267.95	0.80	<0.07	46.5	2.00	0.09	14.60
97	MJI-23-10	MJI-23	267.95~268.95	1.00	<0.07	3.9	0.01	0.01	0.12
98	MJI-23-11	MJI-23	268.95~269.95	1.00	<0.07	1.3	<0.01	<0.01	0.08
99	MJI-23-12	MJI-23	269.95~270.95	1.00	<0.07	2.3	0.01	0.01	0.34
100	MJI-23-13	MJI-23	270.95~271.95	1.00	0.07	1.7	<0.01	<0.01	0.21
101	MJI-23-14	MJI-23	271.95~272.55	0.66	<0.07	5.8	0.05	0.02	0.23
102	MJI-23-15	MJI-23	273.10~273.20	0.10	<0.07	5.0	0.05	0.01	6.20
103	MJI-23-16	MJI-23	59.25~60.25	1.00	<0.07	1.0	<0.01	<0.01	0.03
104	MJI-23-17	MJI-23	60.25~61.25	1.00	<0.07	1.3	<0.01	<0.01	0.02
105	MJI-23-18	MJI-23	61.25~62.15	0.95	<0.07	1.0	<0.01	<0.01	0.02

Sample No.	Locality	Rock		Component Minerals													Altered Minerals								Remarks										
		Name	Q	Af	Pl	Bi	Ho	Au	Hy	Ol	Op	Mf	Ac	Q	Ch	Se	Ep	Cc	K	Ga	Ve	Ser	Op	Act		Px									
																											Q	Af	Pl	Bi	Ho	Au	Hy	Ol	Op
MJI-11-01	33.80m	Alkali Gbbro		⊙							○ ²⁾	○ ²⁾																					1) Aegirinaugite, 2) Sphene, Apatite		
MJI-11-11	338.50m	Dunitite					⊙											⊙															1) Apatite		
MJI-12-01	18.30m	Quartz diorite		⊙								● ²⁾																					1) Aegirinaugite, 2) Sphene		
MJI-12-03	37.20m	Alkali Gbbro		○			○ ¹⁾																												
MJI-12-05	51.30m	Skarn																																	
MJI-12-06	60.85m	Alkali Gbbro		?	⊙	●	⊙ ¹⁾					● ²⁾																							
MJI-20-01	15.40m	Quartz Diorite		○																														1) Apatite	
MJI-20-01	67.80m	Skarn																⊙																	
MJI-20-02	123.20m	Limestone																⊙																	
MJI-21-01	44.25m	Skarn																																	
MJI-21-02	49.50m	Skarn & Diorite								○																									
MJI-21-03	53.10m	Skarn																																	1) Hedenbergite
MJI-23-01	38.80m	Skarn																																1) Analcite, 2) Apatite	
MJI-23-02	267.35m	Skarn																																1) Hedenbergite	

Abbreviation

- Q : Quartz Ch : Chlorite ⊙ : Abundant
Af : Alkali-feldspar Se : Sericite ○ : Common
Pl : Plagioclase Ep : Epidote ○ : A few
Bi : Biotite Cc : Calcite ● : Rare
Ho : Hornblende K : Kaoline mineral
Au : Augite Ga : Garnet
Hy : Hypersthene Ve : Vesuvianite
Ol : Olivine Ser: Serpentine
Op : Opaque mineral Act: Actinolite ? : not specified
Maf: Mafic mineral Px : Pyroxene
Ac : Accessory mineral

付表3 岩石薄片觀察結果

付表4 鉍石研磨片觀察結果

No	Sample No.	Locality	Minerals											Remark
			Cp	Cl	Cv	Gn	Sp	Py	Po	Asp	Mt	Hm	Gg	
1	MJI-12-09	149.80m	◎			○	○	○	○			○		
2	MJI-12-10	150.00m	◎			○	○	○			○		○	
3	MJI-12-11	150.20m	○			○	◎	○	○				○	
4	MJI-12-12	150.42m	○			○	◎	○	●				○	
5	MJI-13-01	85.35m	●			○	◎	○				○	◎	
6	MJI-13-02	85.20m	○	●	●	○	○	○			○		○	
7	MJI-13-03	85.80m	●			○	○	○					◎	
8	MJI-13-05	101.15m	○			○	◎	○	○				○	
9	MJI-13-06	101.50m	○			○	◎	○	○			○	○	
10	MJI-13-11	256.10m	○			●	◎	○			○		◎	
11	MJI-13-13	262.40m	●			●	○	●			○		◎	
12	MJI-13-14	263.00m	○			○	◎				○		◎	
13	MJI-13-15	263.80m	○			○	○						◎	
14	MJI-18-01	74.20m	○			○	◎	○	●	○			○	
15	MJI-18-02	79.80m	◎	○		●	○	○					○	
16	MJI-18-03	143.20m				○	◎	○					○	
17	MJI-18-04	144.55m				○	◎	○					○	
18	MJI-12-14	286.60	○			○	◎	●					○	
19	MJI-21	53.10m	●			○	○	●				○	◎	
20	MJI-23-05	66.20m	●			○	◎	●					○	
21	MJI-23-06	66.30m	●			○	◎	●					○	

Abbreviation

Cp : Chalcopyrite

Py : Pyrite

Gg : Gangue

Cl : Chalcocite

Po : Pyrrhotite

◎ : Abundant

Cv : Covellite

Asp : Arsenopyrite

○ : Common

Gn : Galena

Mt : Magnetite

○ : A few

Sp : Sphalerite

Hm : Hematite

● : Rare

No.	Sample No	Locality	Cp	Sp	Py	Cr	An	Gr	Cc	Ve	Am	Px	Ol	Ep	Ch	Ta	Se	K	Mix	Sr	Na	Q	Pl	Kf	Al	Remarks
1	MJI-11-11	338.50m				○			◎				○?							○						
2	MJI-12-04	39.80m					◎		○																	
3	MJI-12-05	51.30m							◎											○						
4	MJI-12-06	60.85m			○?							○		○	○		●						◎	○?		
5	MJI-12-13	150.70m							◎			○?		○	○		○						○	○?		
6	MJI-13-04	84.85m							○				○	○	○								○			
7	MJI-13-09	222.75m					◎																			
8	MJI-13-11	256.10m	○	◎			○																○?			
9	MJI-13-12	258.90m			●				◎					○	○		○						○			
10	MJI-13-14	263.00m	○?	◎					○							○?							○			
11	MJI-13-15	263.80m		◎					○					○	○								○			
12	MJI-18-05	133.50m			○													○					◎			
13	MJI-19-02	103.30m			○				○														○?	○		
14	MJI-20-01	67.80m							○					○	○		○						○			
15	MJI-21-01	44.25m						○	○			○?														
16	MJI-21-02	49.50m							○				○	○									○			
17	MJI-21-03	53.10m		○								◎ ¹⁾														¹⁾ Hedenbergite
18	MJI-23-01	38.80m				○			○		●				●		●						○	○		
19	MJI-23-02	41.10m							○																	
20	MJI-23-03	41.85m				○			○						●											
21	MJI-23-04	42.65m							◎						●									●?		
22	MJI-23-07	267.35m										◎ ¹⁾											○			¹⁾ Hedenbergite

Abbreviation

Cp : Chalcopyrite An : Andoradite Px : Pyroxene Se : Sericite Na : Natorolite ◎ : Abundant
 Sp : Sphalerite Gr : Grossular Ol : Olivine K : Kaolinite Q : Quartz ○ : Common
 Py : Pyrite Cc : Calcite Ep : Epidot Mix: Mixed layer mineral Pl : Plagioclase ○ : A few
 Cr : Caromite Ve : Vesuvianite Ch : Chlorite Sr : Serpentine Kf : Potash feldspar ● : Rare
 Al : Analcite ? : not specified

付表5 X線回折分析結果

Description	Unit	MJI-11	-12	-13	-14	-15	-16	-17	-18	-19	-20	-21	-22	-23	Total
Light oil	l	2,730	3,370	3,250	2,960	1,010	980	1,100	960	1,230	1,120	2,280	2,380	2,230	25,600
Engine oil	l	117	145	160	123	40	40	55	40	40	42	100	97	92	1,091
Bentonite	kgs	4,625	5,550	4,700	4,875	1,625	1,625	1,500	1,750	1,675	1,550	3,525	4,000	3,525	40,525
CMC	kgs	202	253	210	217	70	75	70	80	80	70	161	200	160	1,848
Tel-stop	kgs	247	300	245	264	90	90	75	90	93	95	172	210	191	2,162
Sea-clay	kgs	223	292	245	251	85	85	70	85	88	90	190	207	183	2,094
Mud-oil	l	240	281	226	253	82	80	95	87	90	90	184	200	186	2,094
Cement	kgs	320	320	320	320	520	120	120	120	120	120	320	320	320	3,360
Core box(NQ)	box	5	21	17	14	1	2	5	2	2	3	13	4	9	98
Core box(BQ)	box	30	21	21	25	10	13	12	9	11	11	17	23	21	224

付表6 消耗品使用実績

付表7 ダイヤモンド・ビット成績(1)

【BQ-size】

No	Bit No	Drilled meterage													
		MJ1	-16	-15	-17	-19	-18	-20	-13	-12	-11	-14	-23	-21	-22
01	NBI-17	41.50													
02	-18	43.00													
03	-19	39.50													
04	-20		53.00												
05	-21		50.30												
06	-22			54.00											
07	-23			58.00											
08	-24				41.10										
09	-25				70.00										
10	-26					49.20									
11	-27					51.70									
12	-28						40.50								
13	-29						68.60								
14	-30							47.50							
15	-31							47.20							
16	-32							52.00							
17	-33							54.20							
18	-34								50.80						
19	-35								45.20						
20	-36								46.00						
21	-37								55.90						
22	-38									45.90					
23	-39									55.60					
24	-40									55.40					
25	-41									50.50					
26	-42									46.90					
27	-43									35.70					
28	-44										40.10				
29	-45										44.80				
30	-46										45.90				
31	-47										55.40				
32	-48										51.60				
33	-49											58.10			
34	-50											48.20			
35	-51											42.10			
36	-52											52.00			
37	-53												53.80		
38	-54												55.00		
39	-55												52.10		
40	-56													44.00	
41	-57													64.00	
42	-58													48.70	
43	-59													62.30	
Total		124.00		112.00		100.90		200.90		290.00		200.40		219.00	2,167.30
	43pcs		103.30		111.00		109.10		197.90		237.80		160.90		(50.40 ^m /pc)

付表7 ダイヤモンド・ビット成績(2)

【NQ-size】

No	Bit No	Drilled meterage													
		MJI	-16	-15	-17	-19	-18	-20	-13	-12	-11	-14	-23	-21	-22
01	NRI-16	30.60													
02	-17		29.80												
03	-18			39.00											
04	-19				29.50										
05	-20					30.20									
06	-21						36.50								
07	-22							29.00							
08	-23							29.50							
09	-24							30.10							
10	-25							27.50							
11	-26								22.70						
12	-27								29.00						
13	-28								29.20						
14	-29								28.70						
15	-30									40.90					
16	-31										44.70				
17	-32										31.20				
18	-33											26.70			
19	-34											32.90			
20	-35												38.30		
21	-36												36.70		
22	-37													38.00	
Total		30.60		39.00		30.20		116.10		40.90		59.60		38.00	711.10
22pcs			29.80		29.50		36.50		109.60		75.90		75.40		(32.32"/pc)

付表8 ボーリング成績表 I-1

【MJI-16】

Date	Progress of drilling			Total		Shift		Man power	
	Shift			Drilled length	Core length	Dri.	Total	Eng.	Worker
	-1	-2	-3						
12.07.87	PRP								
13.	PRP								
14.	PRP								
15.	PRP								
16.	PRP								
17.	PRP								
18.	PRP								
19.	PRP								
20.	PRP								
21.	PRP	(ICP)	(ICP)						
22.	16.40	NCP 9.00	BCP 9.00	34.40	17.20				
23.	18.00	15.00	15.00	48.00	47.80				
24.	12.10	11.00	12.00	35.10	35.10				
25.	12.30	11.00	10.20	33.50	33.50				
26.	DCP DMT								
Total	58.80	46.00	46.20	151.00	133.60	12	23	45	164
【MJI-15】									
27.07.87	PRP								
28.	PRP								
29.	PRP								
30.	30.00	ICP 10.00	7.80	47.80	1.20				
31.	CMT	CMT	CTC	0.00	0.00				
01.08	ICP 9.00	12.30	15.10	36.40	36.40				
02.	12.30	12.00	11.70	36.00	36.00				
03.	11.10	10.90	8.90	30.90	30.90				
04.	DCP DMT								
05.	DMT								
Total	62.40	45.20	43.50	151.10	104.50	12	20	30	138

【Abbreviations】

PRP : Preparation	CTC : Cutting of cemented part
ICP : Inserting of casing pipe	RMG : Reaming of hole
NCP : NW size casing pipe	EHB : Exchange of diamond bit
BCP : BW size casing pipe	NQR : Feeding or draw up of NQWL rod
DCP : Draw up of casing pipe	BQR : Feeding or draw up of BQWL rod
DMT : Dismounting of machine	TRP : Transportation from site to site
CMT : Hole cementation	OTH : Miscellaneous works

付表8 ボーリング成績表 I-2

【MJI-17】

Date	Progress of drilling			Total		Shift		Man power	
	Shift			Drilled length	Core length	Drl.	Total	Eng.	Worker
	-1	-2	-3						
06.08.87	PRP								
07.	PRP								
08.	PRP								
09.	PRP								
10.	PRP								
11.	ICP 10.00			10.00	0.00				
12.	12.00	8.70	8.30	29.00	29.00				
13.	ICP 5.00	12.30	12.00	29.30	29.30				
14.	13.10	15.00	13.80	41.90	41.90				
15.	14.60	13.10	13.10	40.80	40.80				
16.	DCP DMT								
17.	DMT								
Total	54.70	49.10	47.20	151.00	141.00	13	20	36	186
【MJI-19】									
18.08.87	PRP								
19.	PRP								
20.	PRP								
21.	PRP								
22.	ICP 25.10			25.10	0.00				
23.	RMG 1.10	9.10	ICP 4.60	14.80	7.20				
24.	14.90	14.30	11.90	41.10	41.10				
25.	EHB 6.00	13.40	13.60	33.00	33.00				
26.	13.20	12.80	11.00	37.00	37.00				
27.	DCP DMT								
28.	DMT								
Total	60.30	49.60	41.10	151.00	118.30	13	19	33	145
【MJI-18】									
29.08.87	PRP								
30.	PRP	PRP							
31.	PRP	PRP	ICP 22.60	22.60	0.20				
01.09.87	18.70	ICP 11.50	ICP 16.40	46.60	12.70				
02.	17.70	15.10	EHB 8.00	40.80	24.10				
03.	16.30	13.90	13.50	43.70	38.80				
04.	DCP								
05.	DMT								
Total	52.70	40.50	60.50	153.70	75.80	10	17	23	123

付表8 ボーリング成績表 I-3

【MJI-20】

Date	Progress of drilling			Total		Shift		Man power	
	Shift			Drilled length	Core length	Drl.	Total	Eng.	Worker
	-1	-2	-3						
05.09.87	PRP								
06.	PRP	PRP							
07.	PRP	PRP							
08.	ICP 25.40			25.40	1.20				
09.	12.40	IC 4.10	15.00	31.50	28.70				
10.	13.10	12.40	EHB 3.10	28.60	28.60				
11.	15.80	16.20	13.80	45.80	45.80				
12.	12.60	7.10	BQR	19.70	19.70				
13.	DCP								
14.	DMT								
15.	OTH								
16.	OTH								
Total	79.30	39.80	31.90	151.00	124.00	12	21	36	162
【MJI-13】									
19.07.87	PRP								
20.	PRP								
21.	PRP								
22.	PRP								
23.	PRP								
24.	PRP								
25.	PRP								
26.	PRP								
27.	ICP 24.00			24.00	0.00				
28.	RMG 7.00	NQR 6.00	12.20	25.20	14.70				
29.	9.60	11.40	8.70	29.70	27.30				
30.	12.30	9.60	9.70	31.60	31.10				
31.	11.00	9.70	8.80	29.50	29.50				
01.08	10.10	NQR ICP	ICP BQR	10.10	10.10				
02.	12.10	11.10	12.30	35.50	35.50				
03.	12.00	EHB 3.10	11.60	26.70	26.70				
04.	10.40	12.30	9.80	32.50	32.50				
05.	EHB	11.80	10.50	22.30	22.30				
06.	9.70	10.40	9.60	29.70	29.70				
07.	EHB	12.10	11.40	23.50	23.50				
08.	11.90	9.80	9.00	30.70	30.70				
09.	DCP								
10.	DCP								
11.	DMT								
12.	DMT								
Total	130.10	107.30	113.60	351.00	313.60	37	49	146	292

付表8 ボーリング成績表 I-4

【MJI-12】

Date	Progress of drilling			Total		Shift		Man power	
	Shift			Drilled length	Core length	Drl.	Total	Eng.	Worker
	-1	-2	-3						
13.08.87	PRP								
14.	PRP								
15.	PRP								
16.	PRP								
17.	PRP								
18.	PRP								
19.	ICP 16.30			16.30	0.40				
20.	RMG 1.70	NQR 9.00	12.30	23.00	22.90				
21.	EHB 9.60	11.00	10.70	31.30	31.30				
22.	EHB 8.40	12.00	11.10	31.50	31.50				
23.	EHB 6.00	12.30	11.40	29.50	27.85				
24.	9.30	12.00	NQR ICP	21.30	21.30				
25.	ICP BQR	15.00	13.20	28.20	28.20				
26.	11.90	10.70	EHB	22.60	22.60				
27.	12.60	10.80	11.00	34.40	34.40				
28.	10.80	EHB	11.70	32.50	22.50				
29.	12.10	11.50	10.70	34.30	34.30				
30.	EHB	12.30	11.00	23.30	23.30				
31.	11.90	11.40	9.30	32.60	32.60				
01.09.	BQR	DCP							
02.	DCP	DMT							
03.	DMT								
Total	110.60	128.00	112.40	351.00	333.15	37	48	132	279

付表8 ボーリング成績表 I-5

【MJI-11】

Date	Progress of drilling			Total		Shift		Man power		
	Shift			Drilled length	Core length	Drl.	Total	Eng.	Worker	
	-1	-2	-3							
04.09.87	PRP									
05.	PRP									
06.	PRP									
07.	PRP									
08.	PRP									
09.	10.10 _{ICP}	8.10 _{RMG}	5.00	15.00	38.20	13.60				
10.	8.70 _{RMG}	14.10 _{NQR}	ICP	BQR	22.80	14.70				
11.	16.20	14.70	15.00		45.90	30.75				
12.	EHB	15.20	13.90		29.10	29.10				
13.	13.90	12.60	EHB		26.50	26.50				
14.	15.70	15.10	13.40		44.20	44.20				
15.	11.20	EHB	14.10		25.30	25.30				
16.	13.50	13.10	9.80		36.40	36.40				
17.	EHB	12.40	12.00		24.40	24.40				
18.	11.80	10.70	EHB		22.50	22.50				
19.	12.40	12.60	10.70		35.70	35.70				
20.	BQR DCP	DMT								
21.	DMT	TRP								
Toatl	121.60	125.50	103.90		351.00	303.15	33	42	90	217
【MJI-14】										
22.09.87	TRP	PRP								
23.	PRP	PRP								
24.	ICP 17.30	38.50	6.20		62.00	16.80				
25.	RMG	RMG	ICP		0.00	0.00				
26.	NQR 9.20	8.70	14.90		32.80	18.60				
27.	12.00	6.40 _{NQR}	ICP		18.40	15.80				
28.	BQR 9.00	11.40	10.60		31.00	30.00				
29.	9.10	EHB	11.80		20.90	19.90				
30.	12.00	10.90	10.10		33.00	33.00				
01.10.87	EHB	12.30	11.60		23.90	23.90				
02.	12.40	9.60	EHB		22.00	22.00				
03.	13.10	11.80	11.10		36.00	36.00				
04.	9.80	9.60	EHB		19.40	19.40				
05.	10.70	11.20	9.70		31.60	31.40				
06.	9.60	10.40	BQR		20.00	20.00				
07.	DCP	DMT								
08.	DMT	TRP								
Total	124.20	140.80	86.00		351.00	286.80	39	47	68	400

付表8 ボーリング成績表 I-6

【MJI-23】

Date	Progress of drilling			Total		Shift		Man power	
	Shift			Drilled length	Core length	Drl.	Total	Eng.	Worker
	-1	-2	-3						
09.10.87	PRP	PRP							
10.	PRP	PRP							
11.	ICP 15.40			15.40	0.00				
12.	NQR 10.90	12.10	3.70 _{RMG}	26.70	14.35				
13.	NQR 9.70	11.10	12.10	32.90	24.20				
14.	ICP BQR	10.80	RMG	10.80	6.55				
15.	12.30	11.70	12.10	36.10	35.70				
16.	11.20	EHB	12.40	23.60	23.60				
17.	12.00	12.20	11.80	36.00	36.00				
18.	EHB	10.80	11.00	21.80	21.80				
19.	10.50	9.80	EHB	20.30	20.30				
20.	12.10	11.90	10.90	34.90	34.90				
21.	10.30	7.50 _{BQR}		17.80	17.80				
22.	DCP								
23.	DMT								
24.	DMT								
Total	104.40	97.90	74.00	276.30	235.20	30	37	48	251
【MJI-21】									
25.10.87	PRP								
26.	PRP								
27.	16.00	20.10 _{ICP}	NQR 12.40	48.50	9.70				
28.	16.50	15.20	14.80	46.50	41.65				
29.	EHB	14.60	7.50 _{NQR}	25.10	25.10				
30.	ICP BQR 3.00	13.40	14.60	28.00	28.00				
31.	15.20	10.60	EHB	25.80	25.80				
01.11.	14.20	15.00	14.70	43.90	43.90				
02.	11.10	EHB	13.60	24.70	24.70				
03.	13.10	12.50	12.90	38.50	38.50				
04.	DCP	DCP							
05.	DMT	DMT							
Total	89.10	101.40	90.50	281.00	237.35	24	30	30	268

付表8 ボーリング成績表 I-7

【MJI-22】

Date	Progress of drilling			Total		Shift		Man power	
	Shift			Drilled length	Core length	Drl.	Total	Eng.	Worker
	-1	-2	-3						
06.11.87	PRP	PRP							
07.	PRP								
08.	PRP								
09.	22.00	21.00	ICP NQR	43.00	0.00				
10.	15.70	14.20	8.10 NQR	38.00	23.55				
11.	ICP BQR	15.40	16.00	31.40	31.40				
12.	12.60	EHB	13.80	26.40	26.40				
13.	14.10	12.20	12.20	38.50	38.50				
14.	11.70	EHB	12.60	24.30	24.30				
15.	12.80	11.70	11.60	36.10	36.10				
16.	EHB	12.40	12.80	25.20	25.20				
17.	12.20	11.60	10.10	33.90	33.90				
18.	3.20 _{BQR}	DCP	DCP	3.20	3.20				
19.	DMT								
20.	DMT								
Total	104.30	98.50	97.20	300.00	242.55	28	36	45	208

付表9 ボーリング成績表 II-1

【MJI-11】

Operation	Survey		Period		Total Man-day	
	Period	Day	Work shift	Off shift	Engineer	Worker
Preparation	04.09.87-08.09.87	5	5	-	30	45
Drilling	09.09.87-19.09.87	11	Drilling	-	52	132
			Recovering	-	-	-
Removing	20.09.87-21.09.87	2	4	-	8	40
Total	04.09.87-21.09.87	18	42	-	90	217
Drilling Length				Core recovery of 100 m hole		
Length planned	350.00m	Overburden	13.50m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)
Increase or decrease in length	1.00m	Core length	303.15m	0-100	60.3	60.3
Length drilled	351.00m	Core recovery	89.8 %	100-200	100.0	81.6
				200-300	100.0	88.0
				300-351	100.0	89.8
Working hour		h	%	%	Efficiency of Drilling	
Drilling		185.00	70.1	55.1	m/survey period	351.00m/18days
Other working		79.00	29.9	23.5		
Recovering		-	-	-	(m/day)	(19.50m/day)
Sub total		264.00	100.0	78.6	m/shift	351.00/42shift
Reassemblage		37.00		11.0	(m/shift)	(8.36m/shift)
Dismantlement		27.00		8.0		
Water transportation		-		-	Drilling length/bit	
Road construction and others		8.00		2.4	Bit size	HX NQ BQ
Total		336.00		100.0	Drilled length	(m) (m) (m)
Casing pipe inserted					10.10	50.90
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)		Core length	0.00
HX	3.00	0.9	100.0			274.85
NW	30.50	8.7	100.0			
BW	61.00	17.4	100.0			

付表9 ボーリング成績表 II-2

【MJI-12】

Operation	Survey		Period		Total Man-day	
	Period	Day	Work shift	Off shift	Engineer	Worker
Preparation	13.08.87-18.08.87	6	6	-	36	90
Drilling	19.08.87-31.08.87	13	Drilling	-	78	159
			Recovering	-	-	-
Removing	01.09.87-03.09.87	3	5	-	18	30
Total	13.08.87-03.09.87	22	48	-	132	279
Drilling Length			Core recovery of 100 m hole			
Length planned	350.00m	Overburden	14.70m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)
Increase or decrease in length	1.00m	Core length	333.15m	0-100	98.5	98.5
Length drilled	351.00m	Core recovery	99.1%	100-200	98.2	98.3
				200-300	100.0	98.9
				300-351	100.0	99.1
Working hour		h	%	%	Efficiency of Drilling	
Drilling		210.45	71.2	54.9	m/survey period 351.00m/22days	
Other working		85.15	28.8	22.2	(m/day) (15.95m/day)	
Recovering		-	-	-	m/shift 351.00/48shift	
Sub total		296.00	100.0	77.1	(m/shift) (7.31m/shift)	
Reassemblage		18.00		4.7		
Dismantlement		26.00		6.8		
Water transportation		-		-	Drilling length/bit	
Road construction and others		44.00		11.4	Bit size	HX NQ BQ
Total		384.00		100.0	Drilled length	(m) (m) (m)
Casing pipe inserted					16.30	136.80 197.90
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)	Core length	0.40	134.85 177.90
HX	2.00	0.6	100.0			
NW	18.00	5.1	100.0			
BW	153.10	43.6	100.0			

付表9 ボーリング成績表 II-3

【MJI-13】

Operation	Survey		Period		Total Man-day	
	Period	Day	Work shift	Off shift	Engineer	Worker
Preparation	19.07.87-26.07.87	8	8	-	48	128
Drilling	27.07.87-08.08.87	13	Drilling	-	74	148
			Recovering	-	-	-
Removing	09.08.87-12.08.87	4	4	-	24	16
Total	19.07.87-12.08.87	25	49	-	146	292
Drilling Length				Core recovery of 100 m hole		
Length planned	350.00m	Overburden	29.35m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)
Increase or decrease in length	1.00m	Core length	333.60m	0-100	88.6	88.6
Length drilled	351.00m	Core recovery	97.5%	100-200	100.0	95.3
				200-300	100.0	97.0
				300-351	100.0	97.5
Working hour		h	%	%	Efficiency of Drilling	
Drilling		234.00	79.1	59.7	m/survey period 351.00m/25days	
Other working		62.00	20.9	15.8	(m/day) (14.04m/day)	
Recovering		-	-	-	m/shift 351.00/49shift	
Sub total		296.00	100.0	75.5	(m/shift) (7.16m/shift)	
Reassemblage		48.00		12.2		
Dismantlement		32.00		8.2		
Water transportation		-		-	Drilling length/bit	
Road construction and others		16.00		4.1	Bit size	HX
Total		392.00		100.0	Drilled length	(m)
Casing pipe inserted					NQ	(m)
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)		BQ	(m)
HX	2.00	0.6	100.0			
NW	31.00	8.8	100.0			
BW	150.10	42.8	100.0			
					Core length	0.00
						112.70
						200.90

付表9 ボーリング成績表 II-4

【MJI-14】

Operation	Survey		Period		Total Man-day			
	Period	Day	Work shift	Off shift	Engineer	Worker		
Preparation	22.09.87-23.09.87	2	4	-	8	80		
Drilling	24.09.87-06.10.87	13	Drilling	-	52	234		
			Recovering	-	-	-		
Removing	07.10.87-08.10.87	2	4	-	8	86		
Total	22.09.87-08.10.87	17	47	-	68	400		
Drilling Length				Core recovery of 100 m hole				
Length planned	350.00m	Overburden	17.30m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)		
Increase or decrease in length	1.00m	Core length	286.80m	0-100	47.8	47.8		
Length drilled	351.00m	Core recovery	85.9%	100-200	96.4	74.4		
				200-300	100.0	83.5		
				300-351	99.6	85.9		
Working hour		h	%	%	Efficiency of Drilling			
Drilling		232.00	74.4	61.7	m/survey period 351.00m/17days			
Other working		80.00	25.6	21.3	(m/day) (20.65m/day)			
Recovering		-	-	-	m/shift 351.00/47shift			
Sub total		312.00	100.0	83.0	(m/shift) (7.47m/shift)			
Reassemblage		17.00		4.5				
Dismantlement		19.00		5.1				
Water transportation		-		-	Drilling length/bit			
Road construction and others		28.00		7.4	Bit size	HX NQ BQ		
Total		376.00		100.0	Drilled length	(m) (m) (m)		
Casing pipe inserted					17.30	95.90	237.80	
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)		Core length	0.00	51.20	235.60
HX	2.00	0.6	100.0					
NW	62.00	17.7	100.0					
BW	113.20	32.3	100.0					

付表9 ボーリング成績表 II-5

【MJI-15】

Operation	Survey		Period		Total Man-day	
	Period	Day	Work shift	Off shift	Engineer	Worker
Preparation	27.07.87-29.07.87	3	3	-	9	57
Drilling	30.07.87-03.08.87	5	Drilling	-	12	36
			Recovering	-	3	9
Removing	04.08.87-05.08.87	2	2	-	6	36
Total	27.07.87-05.08.87	10	20	-	30	138
Drilling Length				Core recovery of 100 m hole		
Length planned	150.00m	Overburden	32.00m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)
Increase or decrease in length	1.10m	Core length	104.50m	0-100	53.4	53.4
				100-151.1	100.0	87.7
Length drilled	151.10m	Core recovery	87.7%			
Working hour				Efficiency of Drilling		
Drilling	88.00	73.3	55.0	m/survey period 151.10m/10days		
Other working	8.00	6.7	5.0	(m/day) (15.11m/day)		
Recovering	24.00	20.0	15.0	m/shift 151.10/20shift		
Sub total	120.00	100.0	75.0	(m/shift) (7.56m/shift)		
Reassemblage	14.00		8.8			
Dismantlement	16.00		10.0			
Water transportation	-		-	Drilling length/bit		
Road construction and others	10.00		6.2	Bit size	HX	NQ
Total	160.00		100.0	Drilled length	(m)	(m)
Casing pipe inserted					BQ	(m)
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)	Drilled length	30.00	103.30
HX	1.00	0.6	100.0	Core length	0.00	103.30
NW	30.00	8.8	100.0			
BW	47.80	31.6	100.0			

付表9 ボーリング成績表 II-6

【MJ1-16】

Operation	Survey		Period			Total Man-day		
	Period	Day	Work shift	Off shift	Engineer	Worker		
Preparation	12.07.87-21.09.87	10	10	-	30	110		
Drilling	22.07.87-25.07.87	4	Drilling	-	12	36		
			Recovering	-	-	-		
Removing	26.10.87	1	1	-	3	18		
Total	12.07.87-26.07.87	15	23	-	45	164		
Drilling Length				Core recovery of 100 m hole				
Length planned	150.00m	Overburden	16.40m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)		
Increase or decrease in length	1.00m	Core length	134.60m	0-100	82.6	82.6		
				100-151	100.0	99.3		
Length drilled	151.00m	Core recovery	99.3%					
Working hour		h	%	%	Efficiency of Drilling			
Drilling		77.40	80.9	42.2	m/survey period 151.00m/15days			
Other working		18.20	19.1	10.0	(10.07m/day)			
Recovering		-	-	-	m/shift 151.00/23shift			
Sub total		96.00	100.0	52.2	(6.65m/shift)			
Reassemblage		24.00		13.0				
Dismantlement		8.00		4.4				
Water transportation		-		-	Drilling length/bit			
Road construction and others		56.00		30.4	Bit size	HX	NQ	BQ
Total		184.00		100.0	Drilled length	(m) 16.40	(m) 10.60	(m) 124.00
Casing pipe inserted				Core length				
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)					
HX	1.00	0.7	100.0					
NW	16.40	10.9	100.0					
BW	27.00	17.9	100.0					

付表9 ボーリング成績表 II-7

【NJI-17】

Operation	Survey		Period			Total Man-day	
	Period	Day	Work shift	Off shift	Engineer	Worker	
Preparation	06.08.87-10.08.87	5	5	-	15	109	
Drilling	11.08.87-15.08.87	5	Drilling 13	-	15	45	
			Recovering -	-	-	-	
Removing	16.08.87-17.08.87	2	2	-	6	32	
Total	06.08.87-17.08.87	12	20	-	36	186	
Drilling Length				Core recovery of 100 m hole			
Length planned	150.00m	Overburden	10.00m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)	
Increase or decrease in length	1.00m	Core length	141.00m	0-100	100.0	100.0	
Length drilled	151.00m	Core recovery	100.0%	100-151	100.0	100.0	
Working hour		h	%	%	Efficiency of Drilling		
Drilling		93.00	89.4	58.1	m/survey period 151.00m/12days		
Other working		11.00	10.6	6.9	(12.58m/day)		
Recovering		-	-	-	m/shift 151.00/20shift		
Sub total		104.00	100.0	65.0	(7.55m/shift)		
Reassemblage		16.00		10.0			
Dismantlement		16.00		10.0			
Water transportation		-		-			
Road construction and others		24.00		15.0			
Total		160.00		100.0			
Casing pipe inserted				Drilling length/bit			
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)	Bit size	HX (m)	NQ (m)	BQ (m)
HX	1.00	0.7	100.0	Drilled length	10.00	29.00	112.00
NW	10.00	6.6	100.0	Core length	0.00	29.00	112.00
BW	39.00	25.8	100.0				

付表9 ボーリング成績表 II-8

【NJI-18】

Operation	Survey		Period		Total Man-day	
	Period	Day	Work shift	Off shift	Engineer	Worker
Preparation	29.08.87-30.08.87	2	5	-	5	54
Drilling	31.08.87-03.09.87	4	Drilling	-	12	30
			Recovering	-	-	-
Removing	04.09.87-05.09.87	2	2	-	6	39
Total	29.08.87-05.09.87	8	17	-	23	123
Drilling Length				Core recovery of 100 m hole		
Length planned	150.00m	Overburden	22.60m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)
Increase or decrease in length	3.70m	Core length	75.80m	0-100	37.9	37.9
				100-153.7	86.6	57.8
Length drilled	153.70m	Core recovery	57.8%			
Working hour		h	%	%	Efficiency of Drilling	
Drilling		63.00	78.8	46.3	m/survey period 153.70m/15days	
Other working		17.00	21.2	12.5	(10.25m/day)	
Recovering		-	-	-	m/shift 153.70/23shift	
Sub total		80.00	100.0	58.8	(6.68m/shift)	
Reassemblage		26.00		19.1		
Dismantlement		22.00		16.2		
Water transportation		-		-	Drilling length/bit	
Road construction and others		8.00		5.9	Bit size	HX NQ BQ
Total		136.00		100.0	Drilled length	(m) (m) (m)
Casing pipe inserted				22.60 30.20 100.90		
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)	Core length 0.20 9.70 65.90		
HX	1.00	0.7	100.0			
NW	22.60	14.7	100.0			
BW	52.80	34.4	100.0			

付表9 ボーリング成績表 II-9

【MJI-19】

Operation	Survey		Period			Total Man-day	
	Period	Day	Work shift	Off shift	Engineer	Worker	
Preparation	18.08.8-21.08.87	4	4	-	12	72	
Drilling	22.08.87-26.08.87	5	Drilling	-	15	39	
			Recovering	-	-	-	
Removing	27.08.87-28.08.87	2	2	-	6	34	
Total	18.08.87-28.08.87	11	19	-	33	145	
Drilling Length		Core recovery of 100 m hole					
Length planned	150.00m	Overburden	25.10m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)	
Increase or decrease in length	1.00m	Core length	118.30m	0-100	89.9	89.9	
				100-151	100.0	94.0	
Length drilled	151.00m	Core recovery	94.0%				
Working hour		h	%	%	Efficiency of Drilling		
Drilling		84.00	80.8	55.3	m/survey period 151.00m/11days		
Other working		20.00	19.2	13.1	(13.73m/day)		
Recovering		-	-	-	m/shift 151.00/19shift		
Sub total		104.00	100.0	68.4	(7.95m/shift)		
Reassemblage		16.00		10.5			
Dismantlement		24.00		15.8			
Water transportation		-		-	Drilling length/bit		
Road construction and others		8.00		5.3	Bit size	HX NQ BQ	
Total		152.00		100.0	Drilled length	(m) (m) (m)	
Casing pipe inserted		Meterage drilling x 100 length			Core length		
Size	Meterage (m)	Recovery (%)		0.00	7.20	111.10	
HX	1.00	0.7					
NW	26.20	17.4					
BW	39.90	26.4					

付表9 ボーリング成績表 II-10

【MJI-20】

Operation	Survey		Period		Total Man-day		
	Period	Day	Work shift	Off shift	Engineer	Worker	
Preparation	05.09.87-07.09.87	3	5	-	9	70	
Drilling	08.09.87-12.09.87	5	Drilling	-	15	36	
			Recovering	-	-	-	
Removing	13.09.87-16.09.87	4	2	2	12	56	
Total	05.09.87-16.09.87	12	19	2	36	162	
Drilling Length			Core recovery of 100 m hole				
Length planned	150.00m	Overburden	20.50m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)	
Increase or decrease in length	1.00m	Core length	124.00m	0-100	73.0	73.0	
				100-151	100.0	95.0	
Length drilled	151.00m	Core recovery	95.0%				
Working hour			h	%	%	Efficiency of Drilling	
Drilling	73.00	76.0	43.5	m/survey period		151.00m/12days	
Other working	23.00	24.0	13.7	(m/day)		(12.58m/day)	
Recovering	-	-	-	m/shift		151.00/21shift	
Sub total	96.00	100.0	57.2	(m/shift)		(7.19m/shift)	
Reassemblage	32.00		19.0				
Dismantlement	16.00		9.5				
Water transportation	-		-	Drilling length/bit			
Road construction and others	24.00		14.3	Bit size	HX	NQ	BQ
Total	168.00		100.0	Drilled length	(m)	(m)	(m)
Casing pipe inserted				25.40	16.50	109.10	
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)	Core length	1.20	13.70	109.10
HX	1.00	0.7	100.0				
NW	25.40	16.8	100.0				
BW	41.90	27.7	100.0				

付表9 ボーリング成績表 II-11

【NJI-21】

Operation	Survey		Period			Total Man-day	
	Period	Day	Work shift	Off shift	Engineer	Worker	
Preparation	25.10.87-26.10.87	2	2	-	6	74	
Drilling	27.10.87-03.11.87	8	Drilling	-	24	120	
			Recovering	-	-	-	
Removing	04.11.87-05.11.87	2	4	-	6	74	
Total	25.10.87-05.11.87	12	30	-	36	268	
Drilling Length				Core recovery of 100 m hole			
Length planned	280.00m	Overburden	36.10m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)	
Increase or decrease in length	1.00m	Core length	237.35m	0-100	88.8	88.8	
				100-200	100.0	95.4	
Length drilled	281.00m	Core recovery	96.9%	200-281	100.0	96.9	
Working hour		h	%	%	Efficiency of Drilling		
Drilling		141.00	73.4	58.7	m/survey period 281.00m/12days		
Other working		51.00	26.6	21.2	(23.42m/day)		
Recovering		-	-	-	m/shift 281.00/30shift		
Sub total		192.00	100.0	79.9	(9.37m/shift)		
Reassemblage		16.00		6.7			
Dismantlement		16.00		6.7			
Water transportation		-		-	Drilling length/bit		
Road construction and others		16.00		6.7	Bit size	HX NQ BQ	
Total		240.00		100.0	Drilled length	(m) 36.10 84.00 160.90	
Casing pipe inserted				Core length			
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)				
HX	3.00	1.1	100.0				
NW	36.10	12.8	100.0				
BW	120.10	42.7	100.0				

付表9 ボーリング成績表 II-12

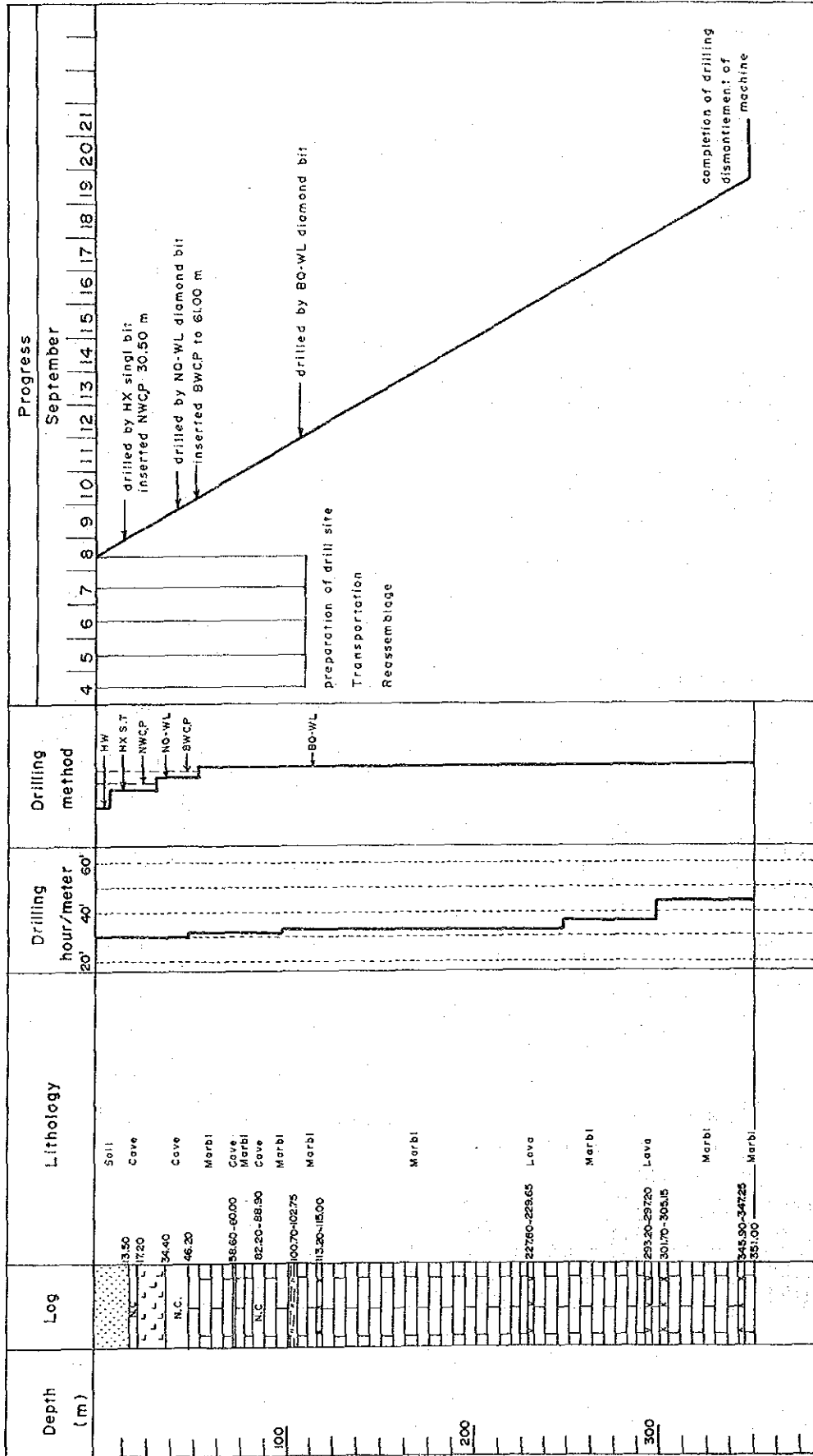
【MJ1-22】

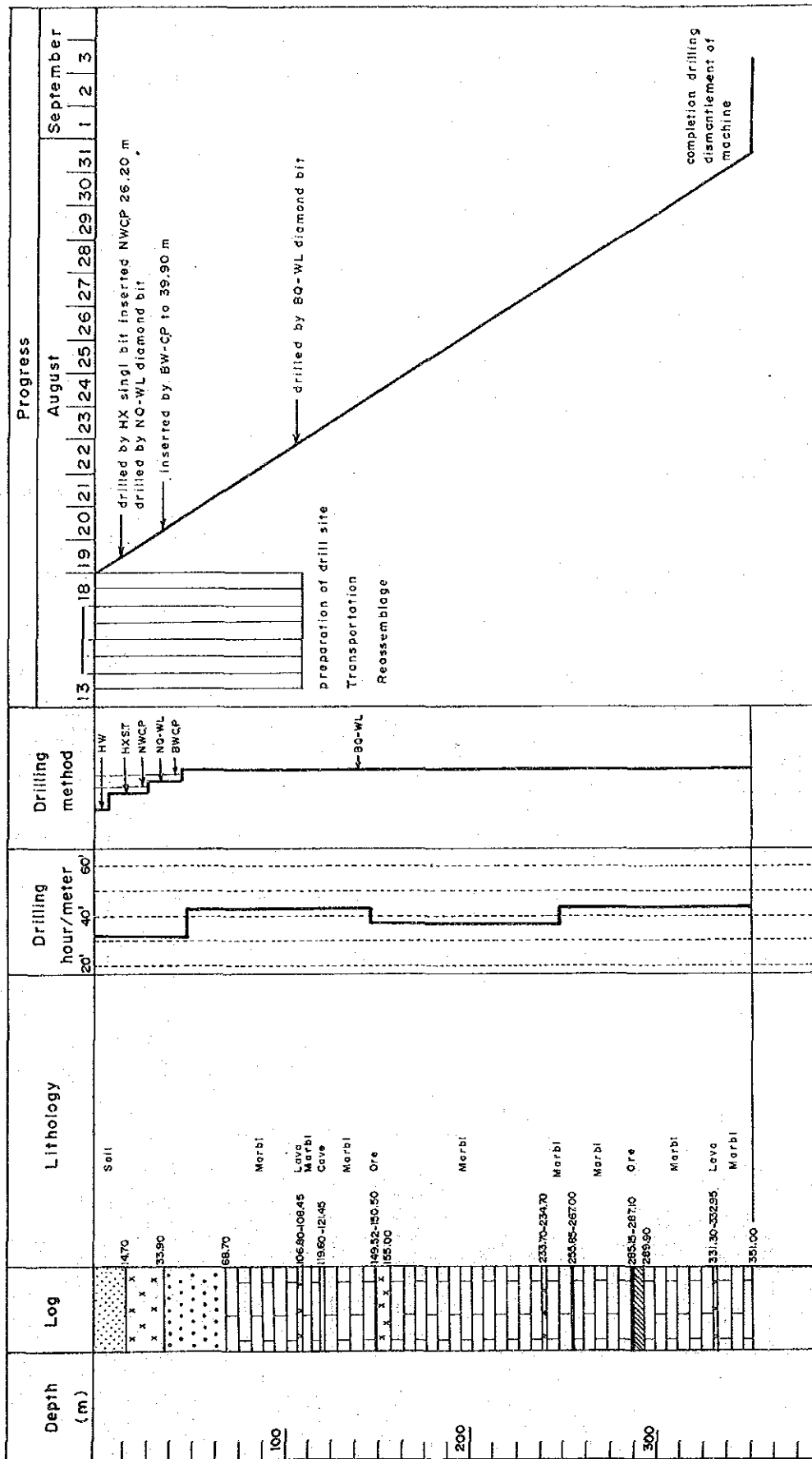
Operation	Survey		Period		Total Man-day		
	Period	Day	Work shift	Off shift	Engineer	Worker	
Preparation	06.11.87-08.11.87	3	4	-	9	75	
Drilling	09.11.87-18.11.87	10	Drilling 28	-	30	90	
			Recovering -	-	-	-	
Removing	19.11.87-20.11.87	2	4	-	6	43	
Total	06.11.87-20.11.87	15	36	-	45	208	
Drilling Length				Core recovery of 100 m hole			
Length planned	270.00m	Overburden	43.00m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)	
Increase or decrease in length	30.00m	Core length	242.55m	0-100	74.6	74.6	
Length drilled	300.00m	Core recovery	94.4%	100-200	100.0	90.8	
				200-300	100.0	94.4	
Working hour				Efficiency of Drilling			
	h	%	%				
Drilling	159.00	71.0	55.2				
Other working	65.00	29.0	22.6	m/survey period 300.00m/15days			
Recovering	-	-	-	(m/day) (20.00m/day)			
Sub total	224.00	100.0	77.8	m/shift 300.00/36shift			
Reassemblage	24.00		8.3	(m/shift) (8.33m/shift)			
Dismantlement	16.00		5.6				
Water transportation	-		-				
Road construction and others	24.00		8.3				
Total	288.00		100.0				
Casing pipe inserted				Drilling length/bit			
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)	Bit size	HX	NQ	BQ
HX	2.50	0.8	100.0	Drilled length	(m)	(m)	(m)
NW	43.00	14.3	100.0	Core length	43.00	38.00	219.00
BW	81.00	27.0	100.0		0.00	23.55	219.00

付表9 ボーリング成績表 II-13

【MJI-23】

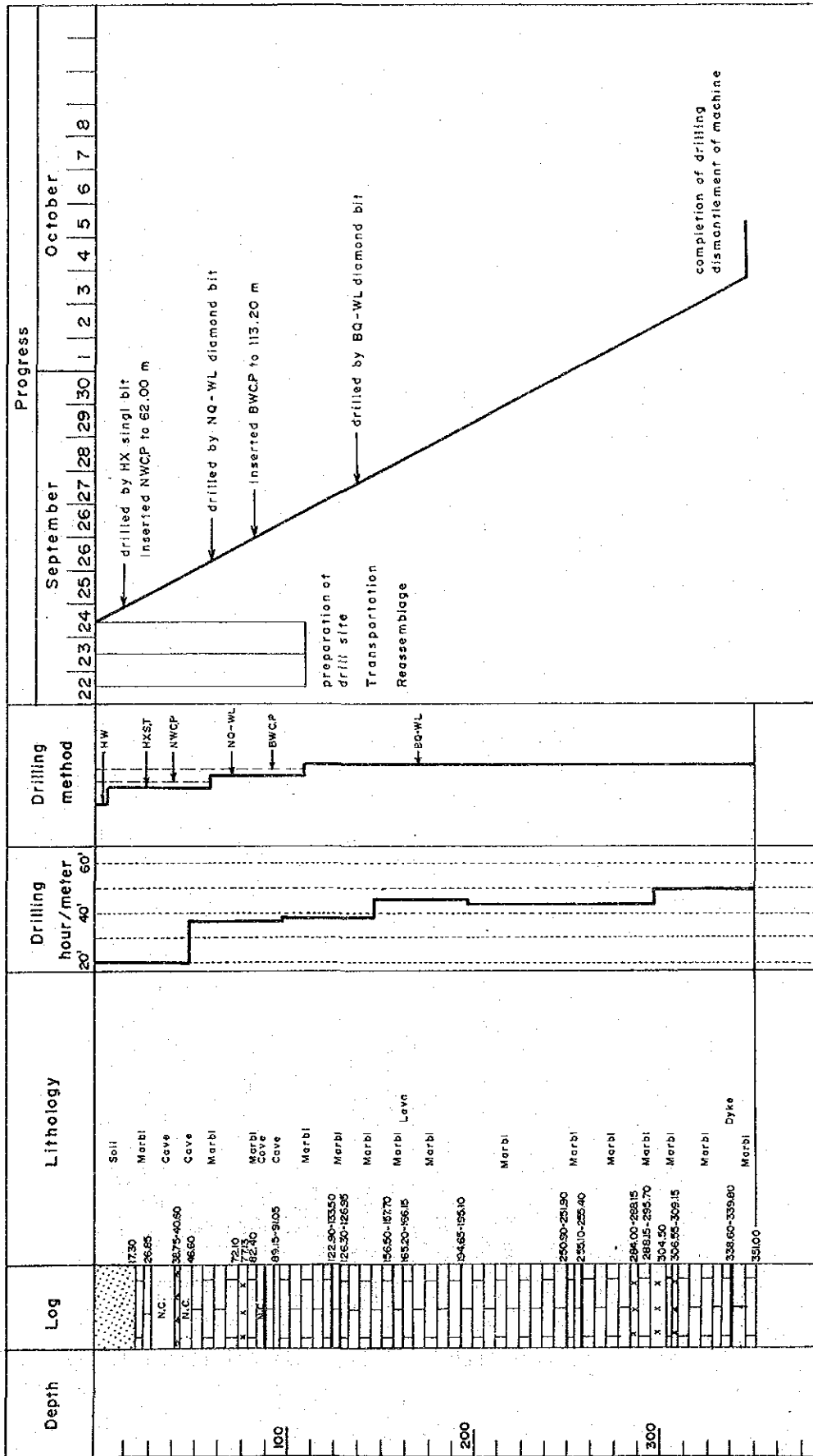
Operation	Survey		Period		Total Man-day	
	Period	Day	Work shift	Off shift	Engineer	Worker
Preparation	09.10.87-10.10.87	2	4	-	6	74
Drilling	11.10.87-21.10.87	8	Drilling	-	30	120
			Recovering	-	-	-
Removing	22.10.87-24.10.87	3	3	-	9	57
Total	25.10.87-05.11.87	16	37	-	45	251
Drilling Length				Core recovery of 100 m hole		
Length planned	270.00m	Overburden	15.40m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)
Increase or decrease in length	6.30m	Core length	235.20m	0-100	70.1	70.1
				100-200	99.6	86.1
Length drilled	276.30m	Core recovery	90.1%	200-276.3	100.0	90.1
Working hour				Efficiency of Drilling		
Drilling	181.30	h	73.2	%	61.3	
Other working	66.30		26.8		22.5	m/survey period 276.30m/16days (17.27m/day)
Recovering	-		-		-	(m/day)
Sub total	248.00		100.0		83.8	m/shift 276.30/37shift (7.46m/shift)
Reassemblage	20.00				6.7	
Dismantlement	16.00				5.4	
Water transportation	-				-	
Road construction and others	12.00				4.1	
Total	296.00				100.0	
Casing pipe inserted				Drilling length/bit		
Size	Meterage (m)	Meterage drilling x 100 length (%)	Recovery (%)	Bit size	HX	NQ
HX	3.00	1.1	100.0	Drilled length	(m)	(m)
NW	33.00	11.9	100.0	Core length	15.40	60.50
BW	86.00	31.1	100.0			200.40
						0.00
						38.55
						196.65





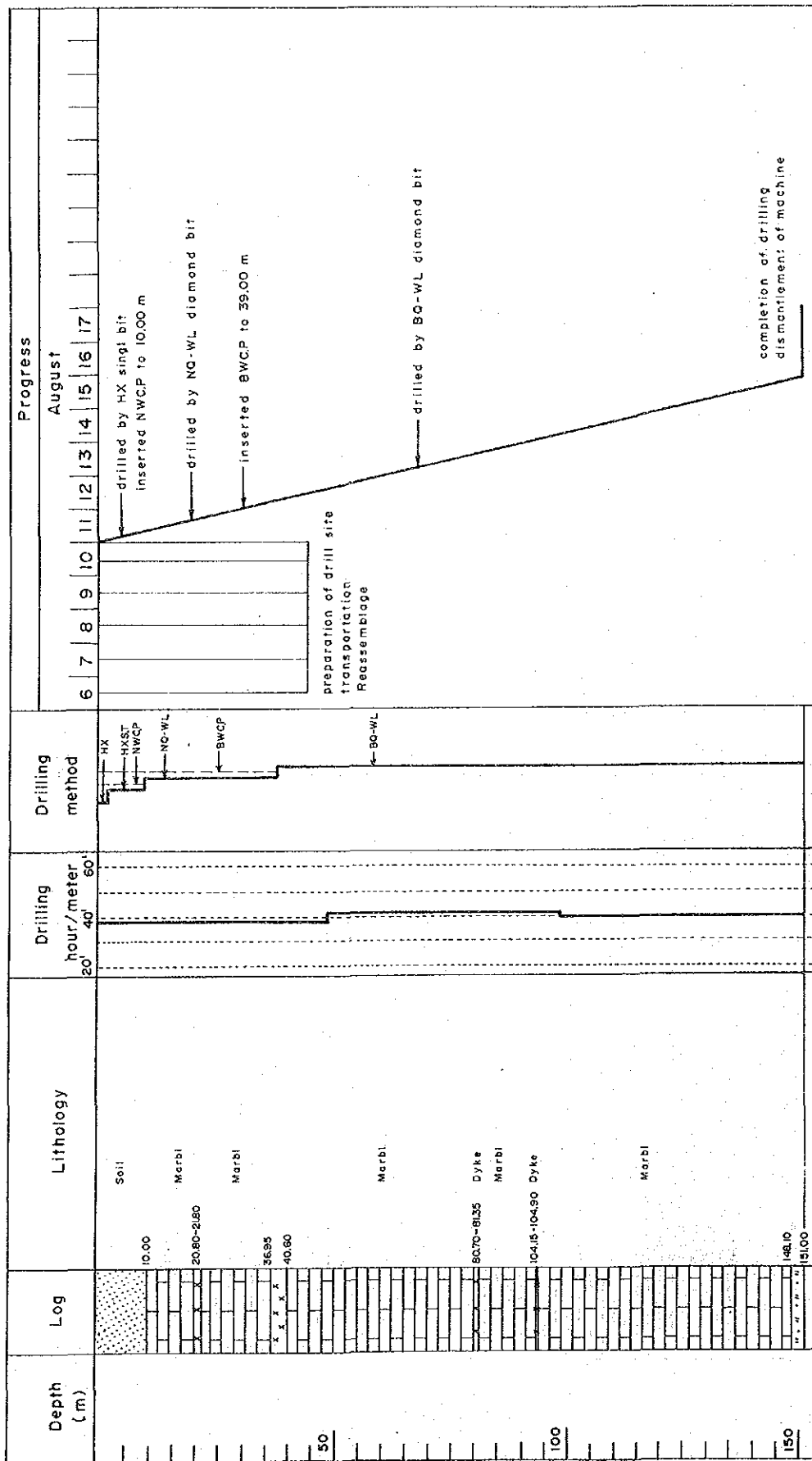
(MJ1-12)

付表 10 ボーリング掘進工程図 MJ1-12



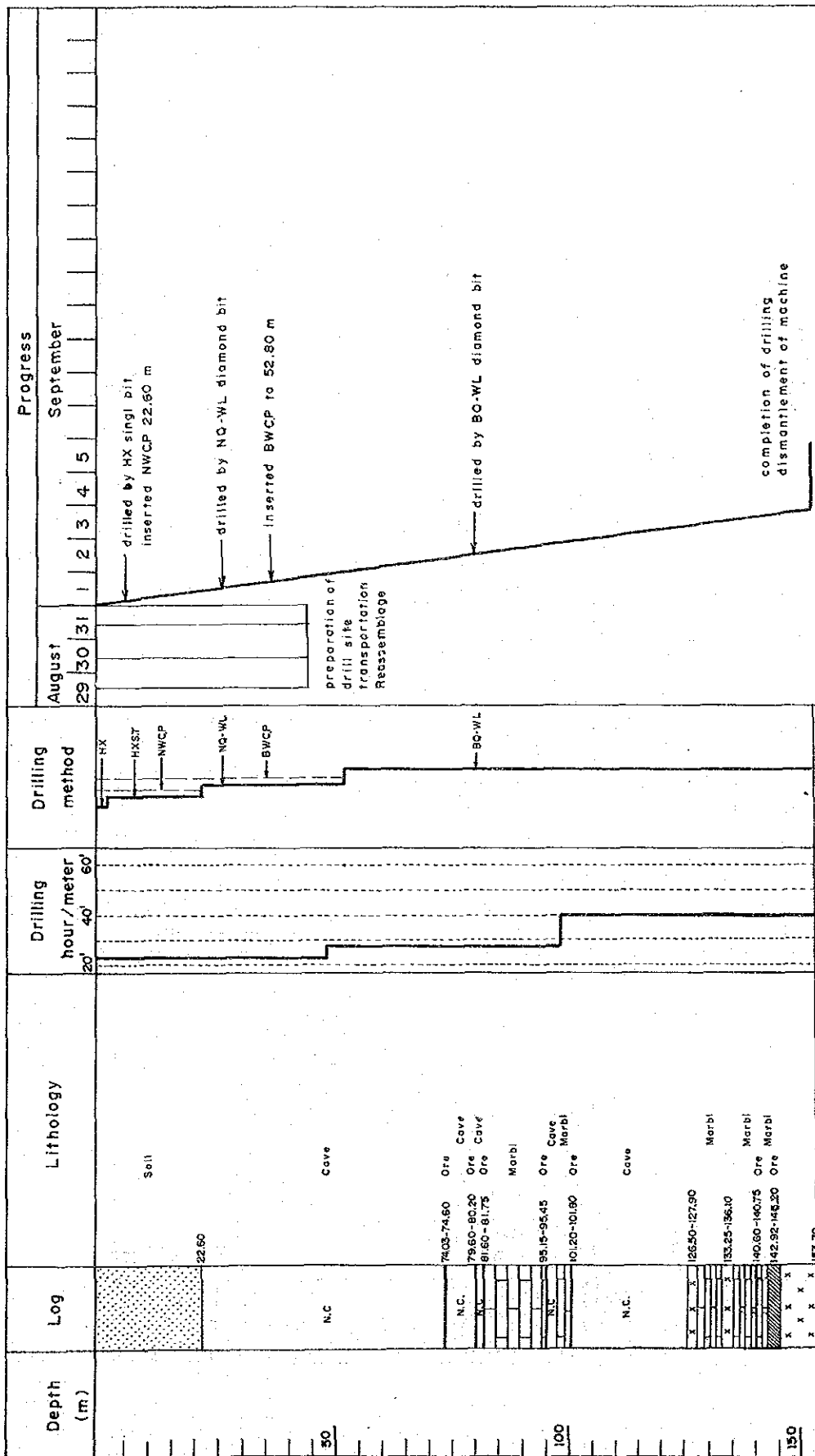
(MJ1-14)

付表 10 ホーリング掘進工程図 MJ1-14



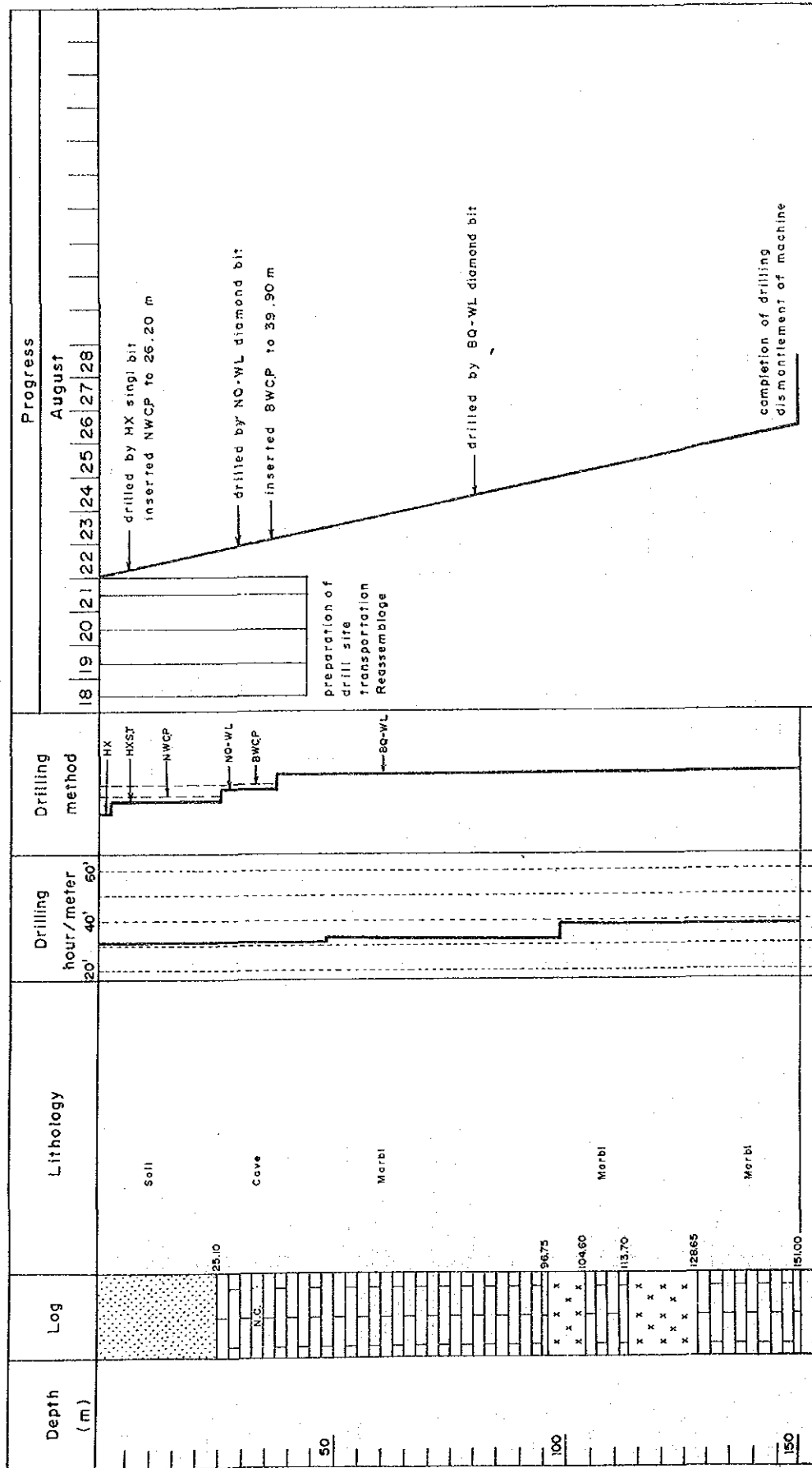
(MJ1-17)

付表10 ボーリング掘進工程図 MJ1-17



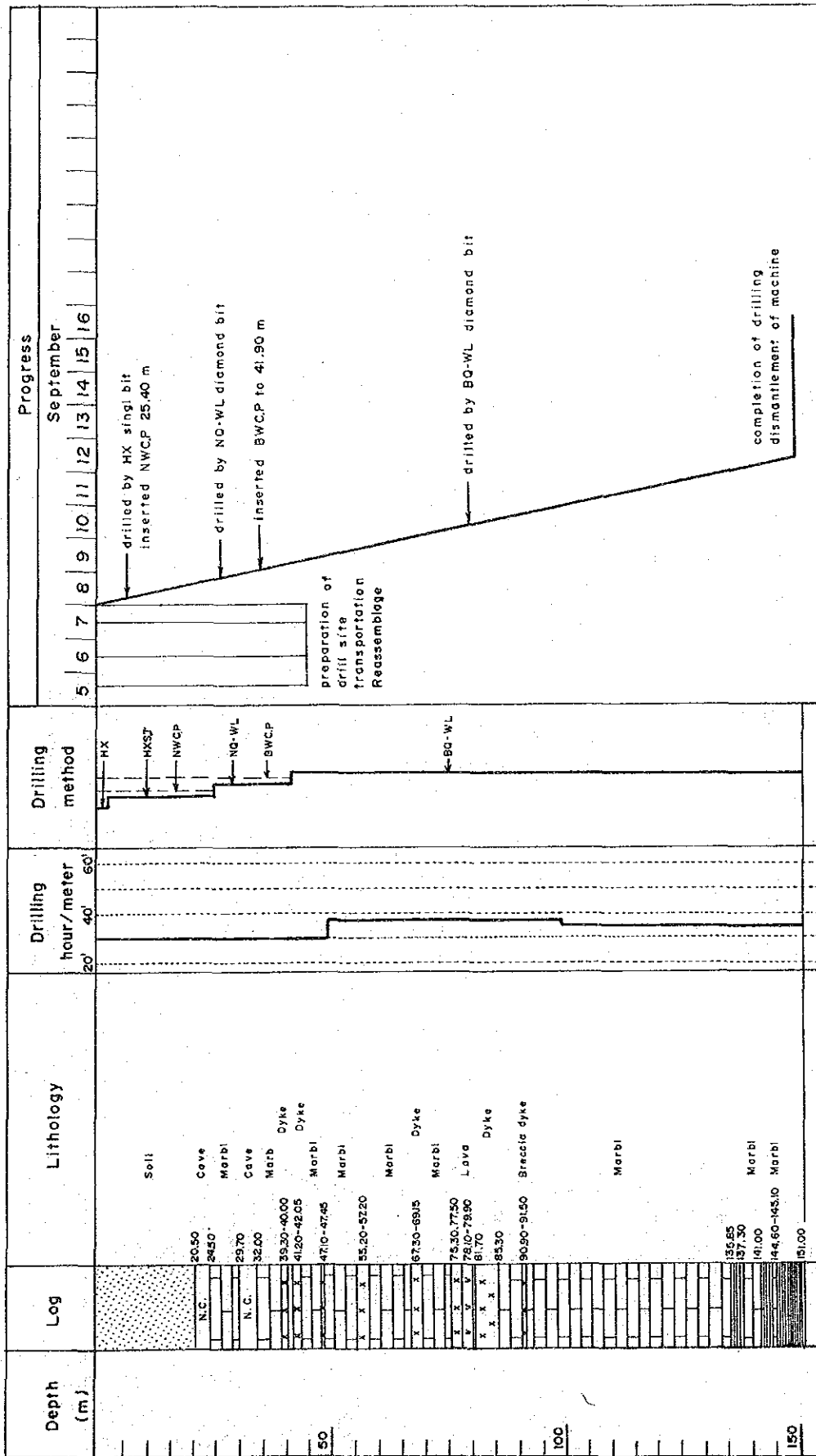
(MJ1-18)

付表 10 ボーリング掘進工程図 MJ1-18



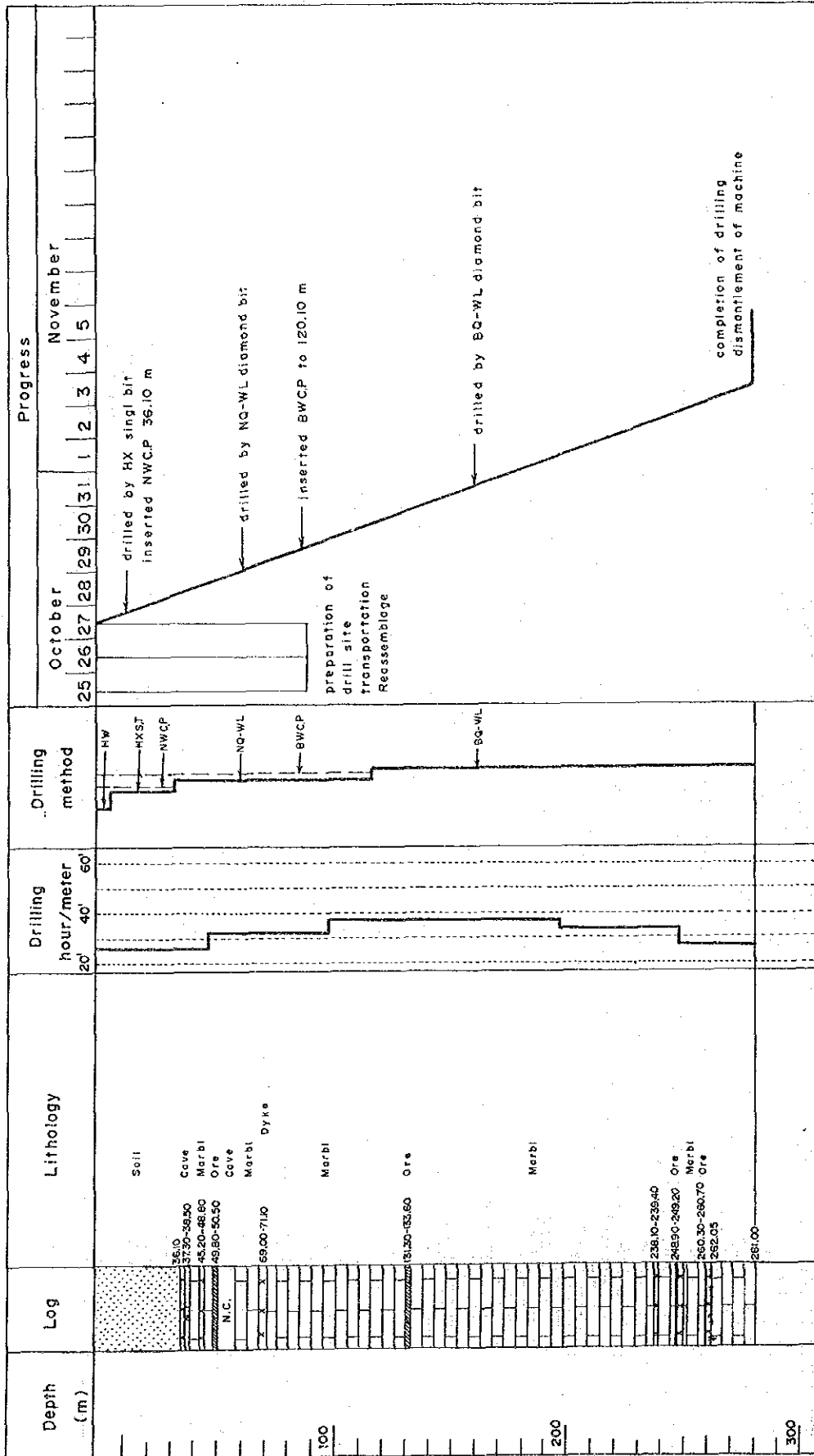
(MJ1-19)

付表 10 ボーリング掘進工程図 MJ1-19



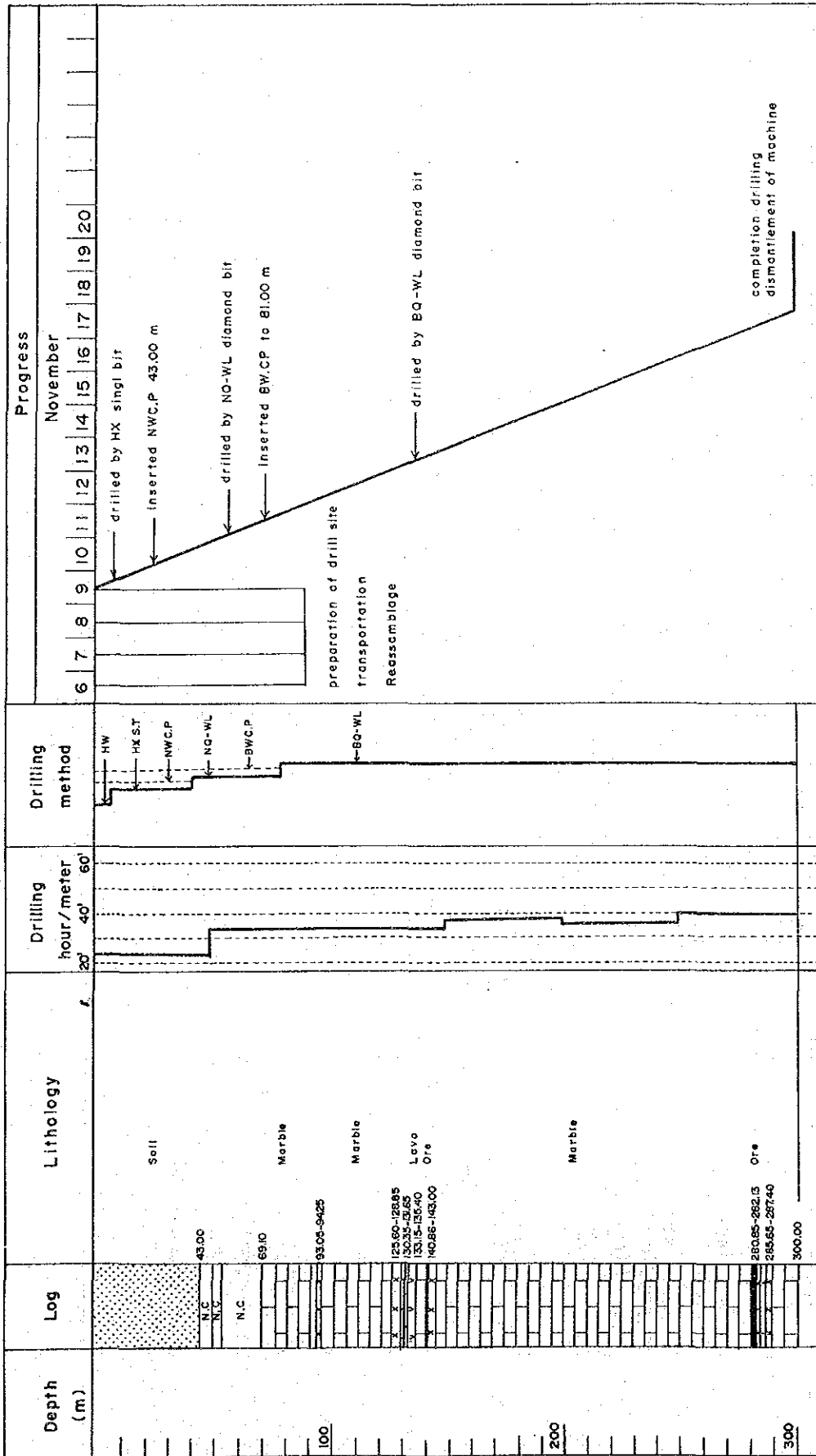
(MJ I - 20)

付表 10 ボーリング掘進工程図 MJ I - 20



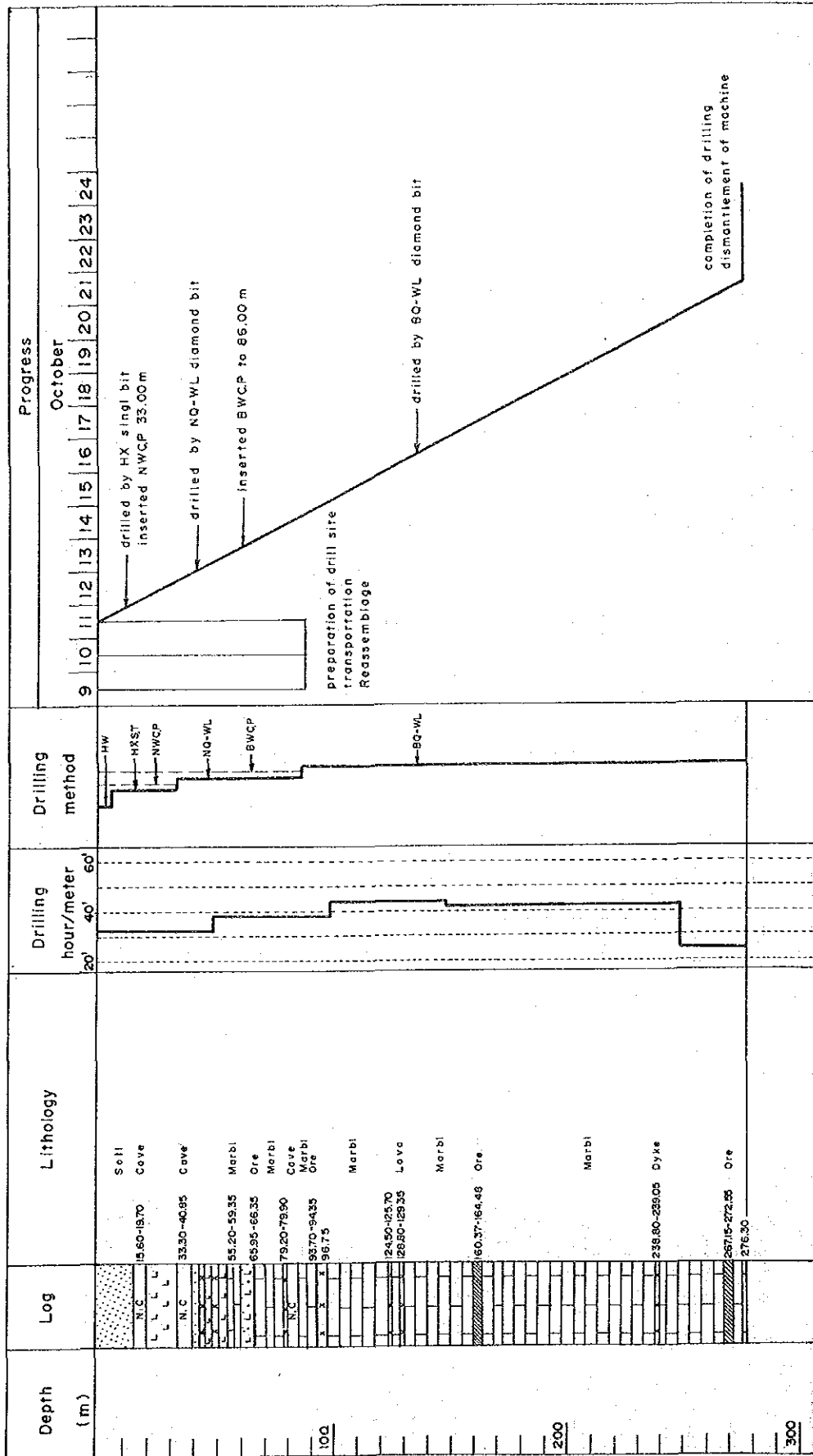
(MJJ-21)

付表 10 ボーリング掘進工程図 MJJ-21



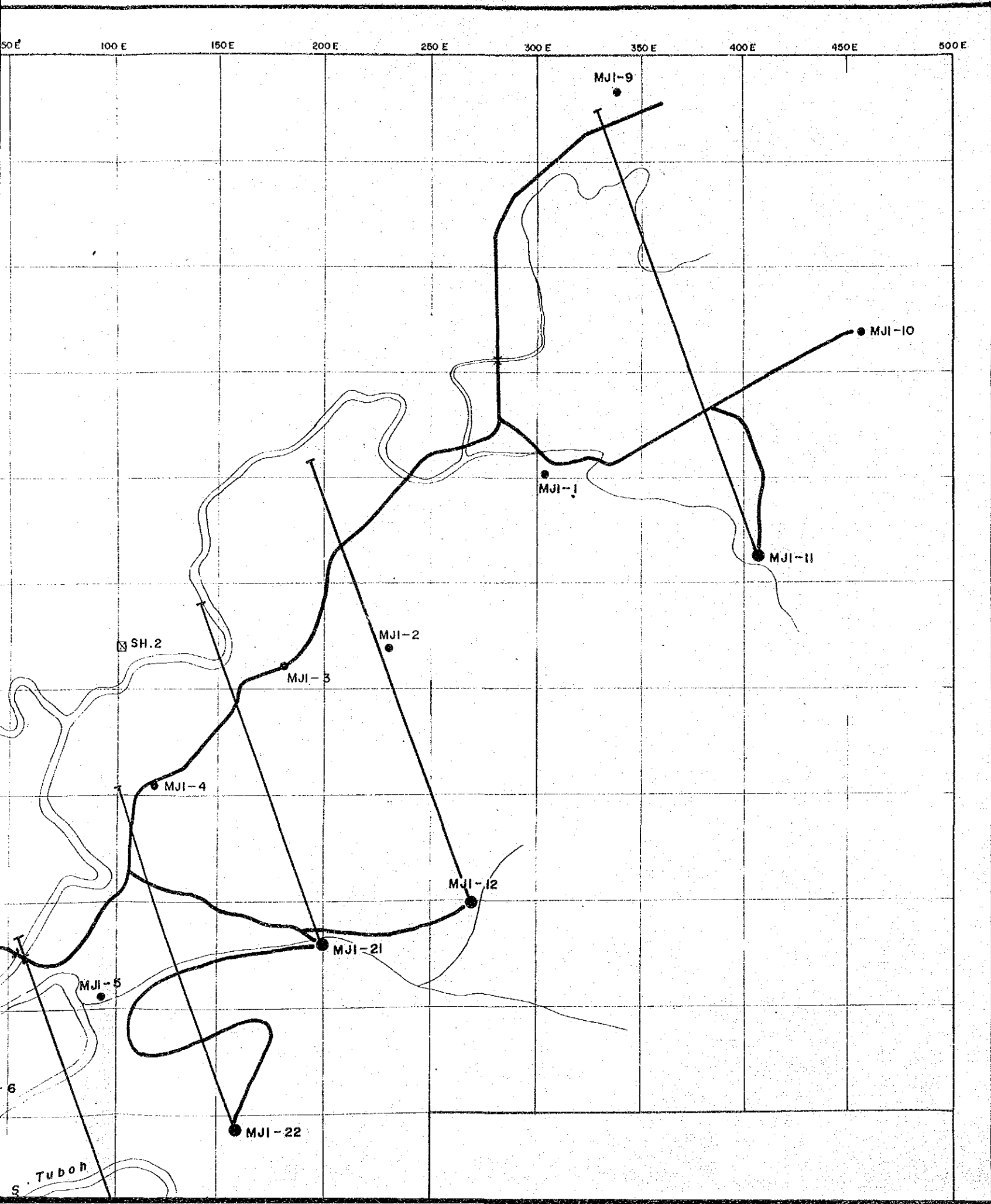
(MJ1-22)

付表 10 ボーリング掘進工程図 MJ1-22



(MJI-23)

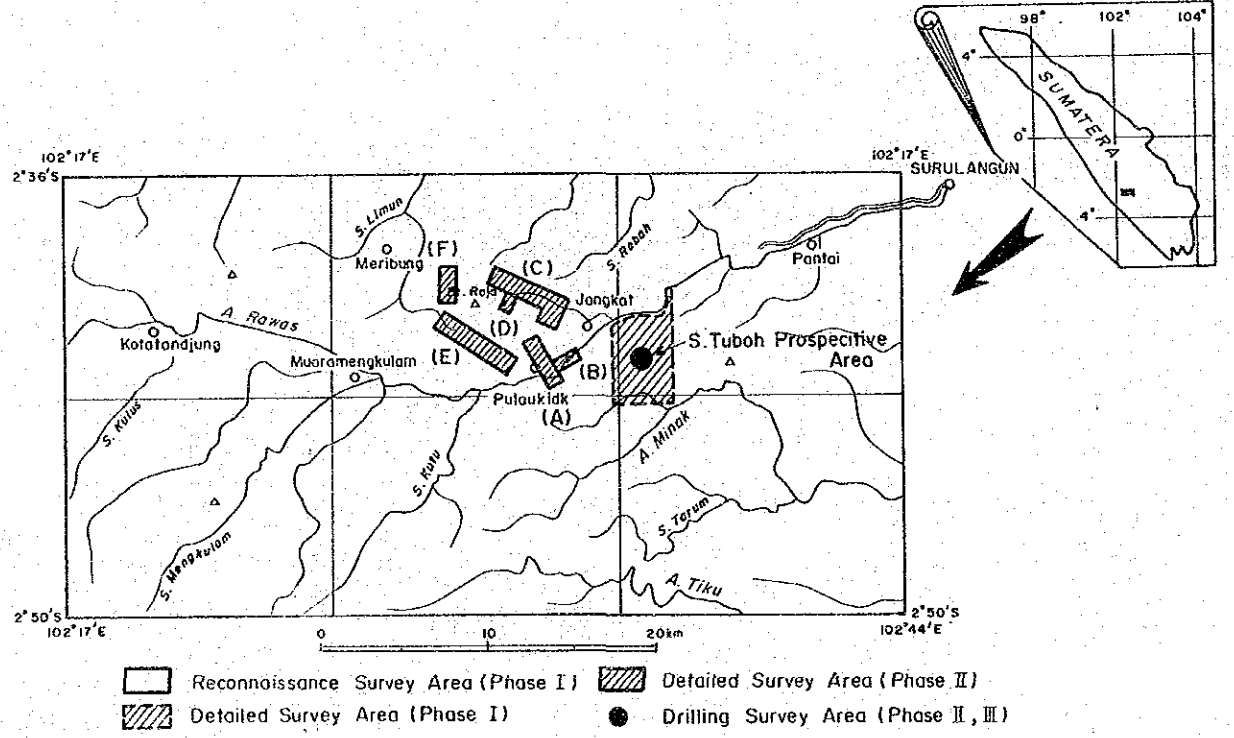
付表 10 ボーリング掘進工程図 MJI-23



REPORT ON THE MINERAL EXPLORATION OF
SOUTHERN SUMATRA AREA, THE REPUBLIC OF INDONESIA
PHASE III

LOCATION MAP OF DRILL HOLE
IN S. TUBOH
SOUTHERN SUMATRA
INDONESIA

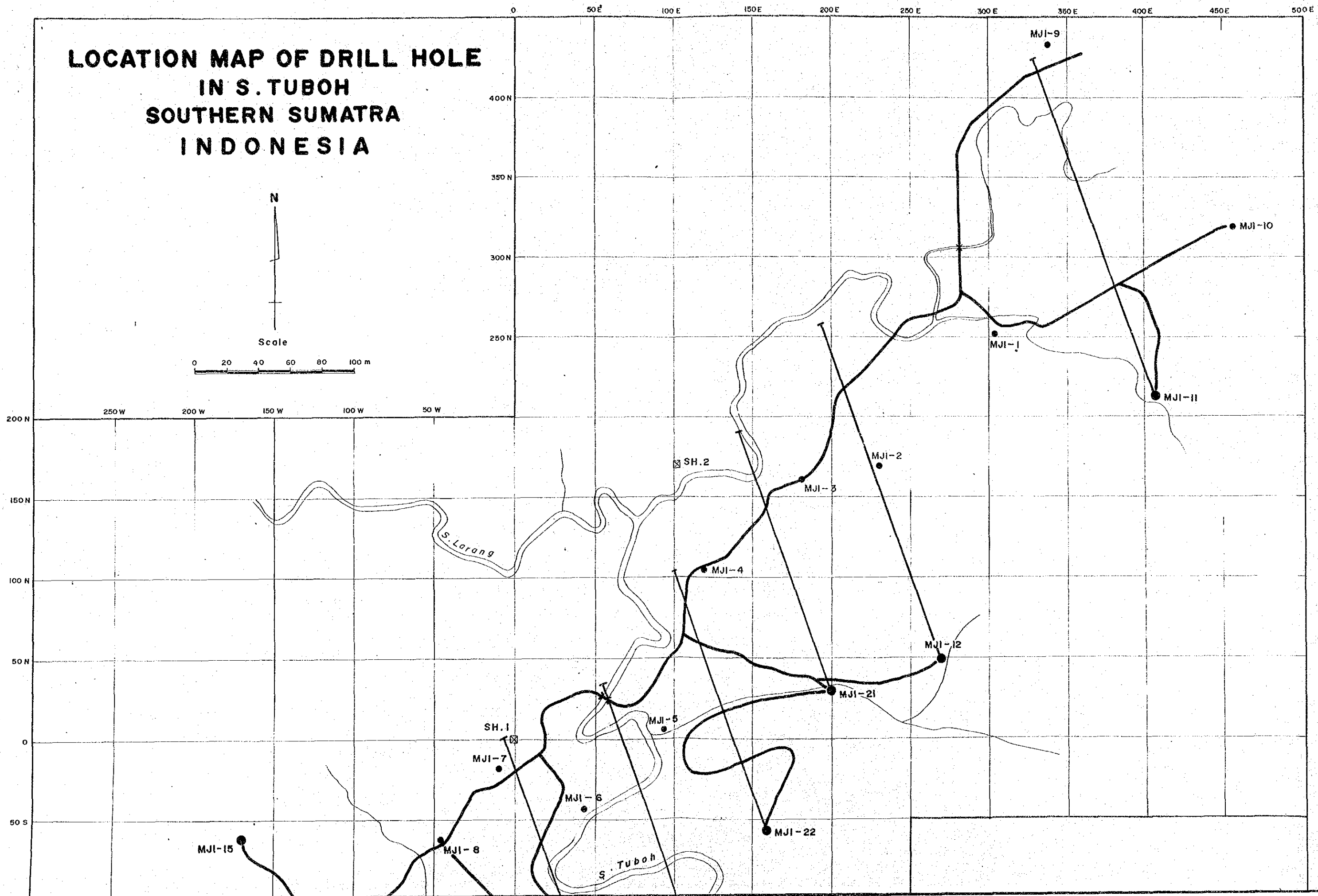
国際協力事業団
17672
図書資料室蔵書

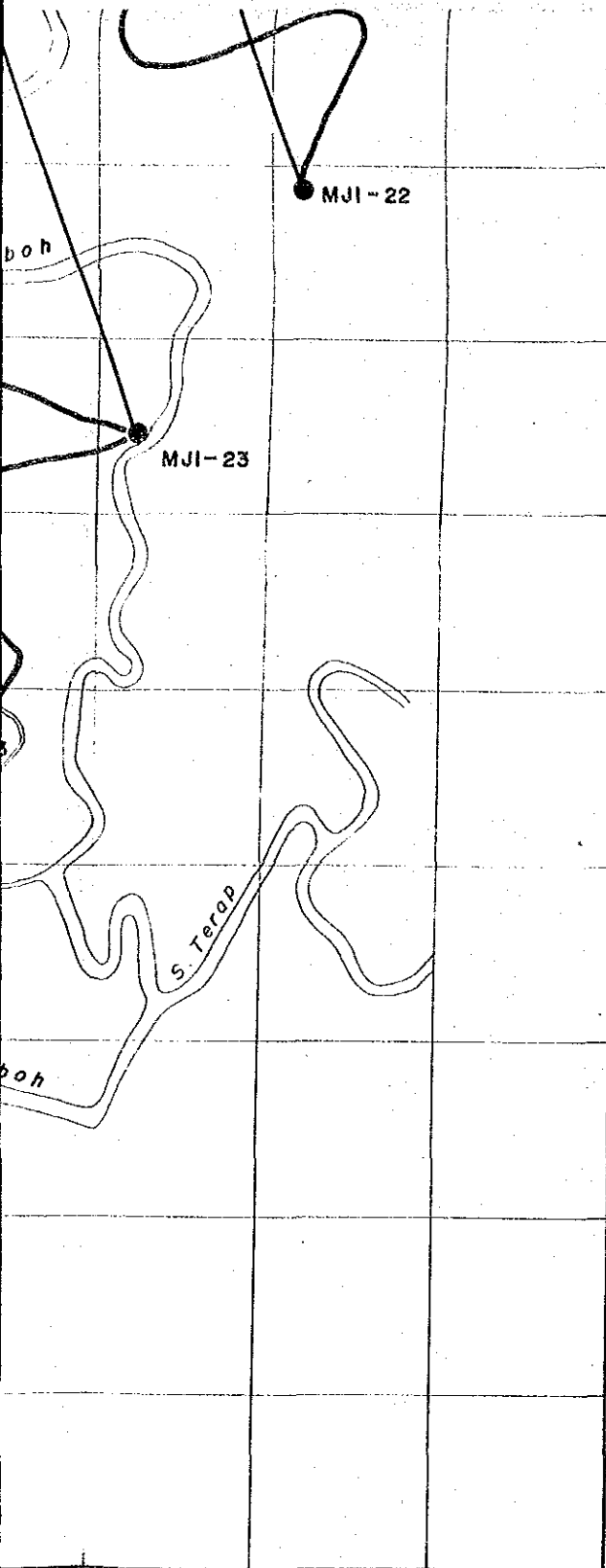


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LOCATION MAP OF DRILL HOLE IN S. TUBOH SOUTHERN SUMATRA INDONESIA





LEGEND



River



Road constructed



Drill hole (in phase III)



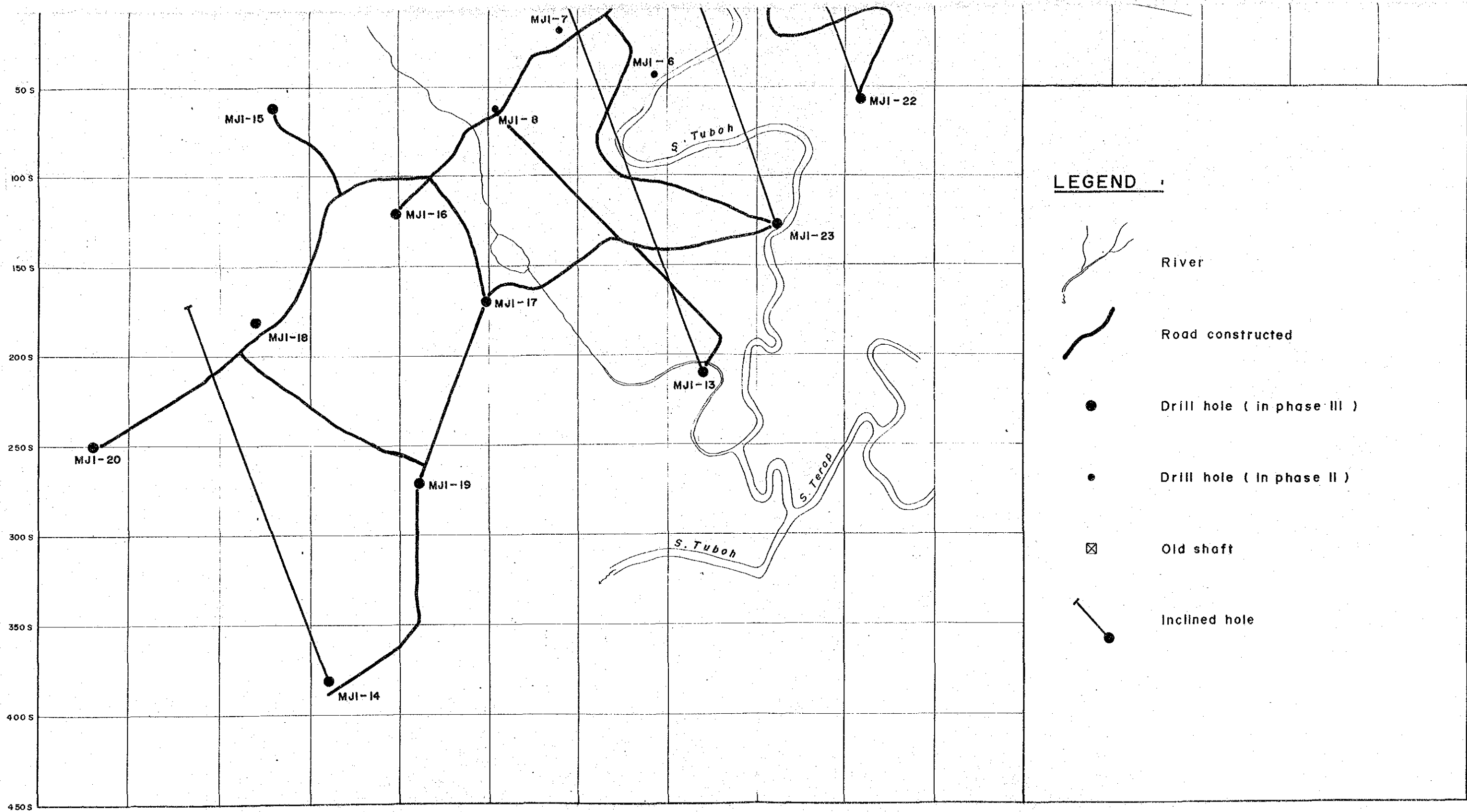
Drill hole (In phase II)









Old shaft



Inclined hole



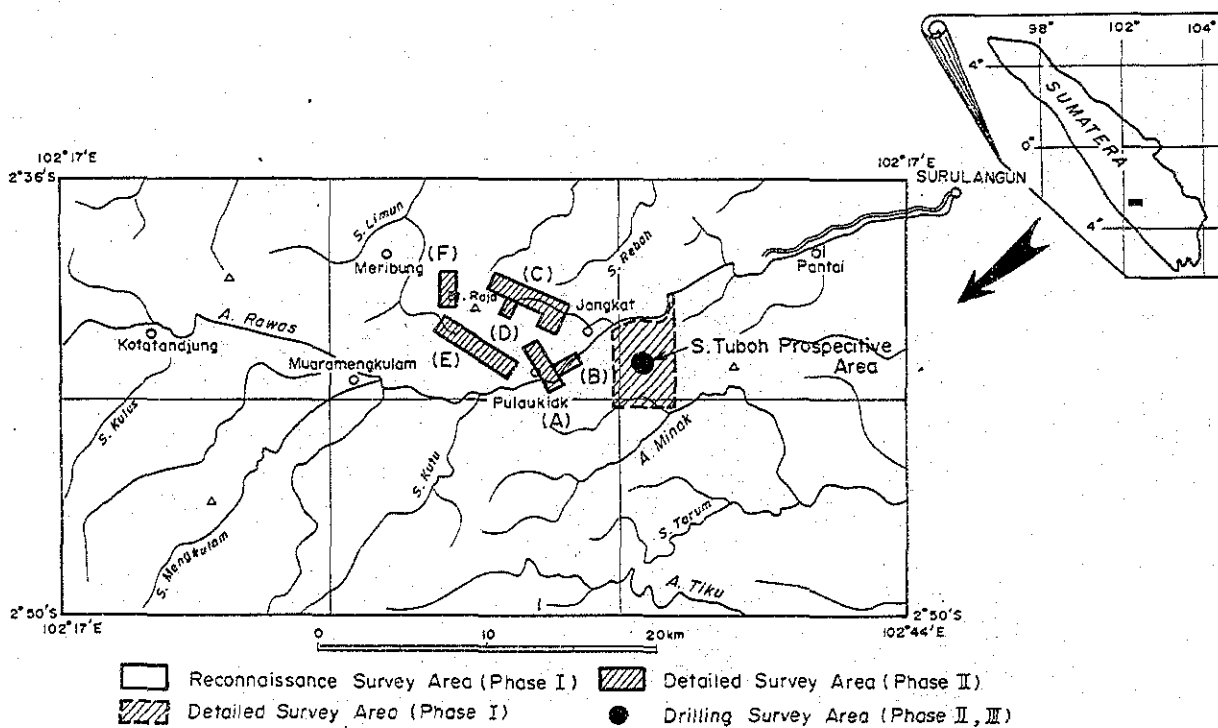
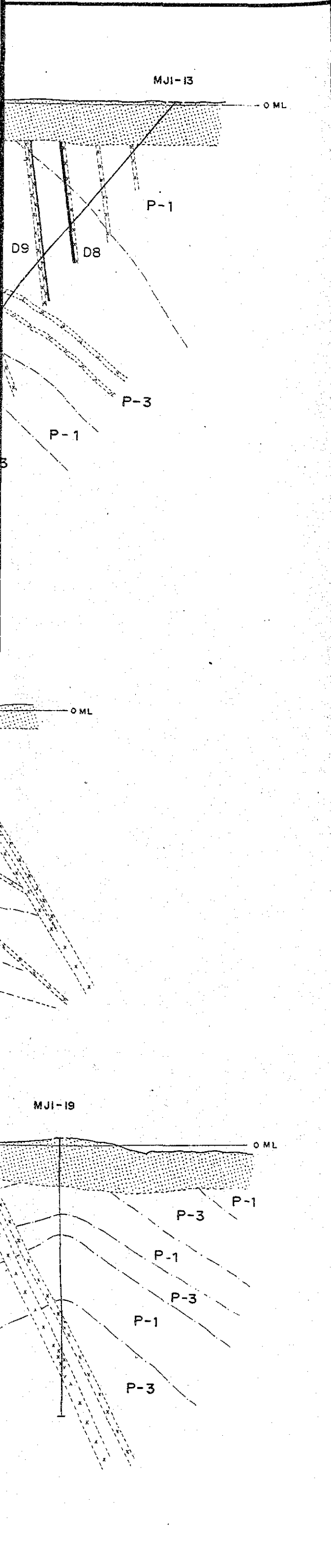
LEGEND :

-  River
-  Road constructed
-  Drill hole (in phase III)
-  Drill hole (in phase II)
-  Old shaft
-  Inclined hole

REPORT ON THE MINERAL EXPLORATION OF
SOUTHERN SUMATRA AREA, THE REPUBLIC OF INDONESIA
PHASE III

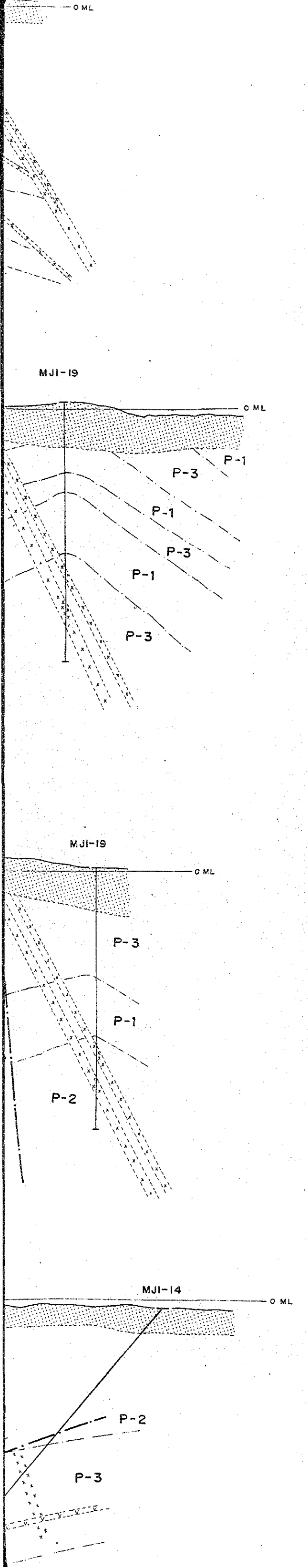
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DRILLING PROFILE OF PHASE-III
SOUTHERN SUMATRA AREA



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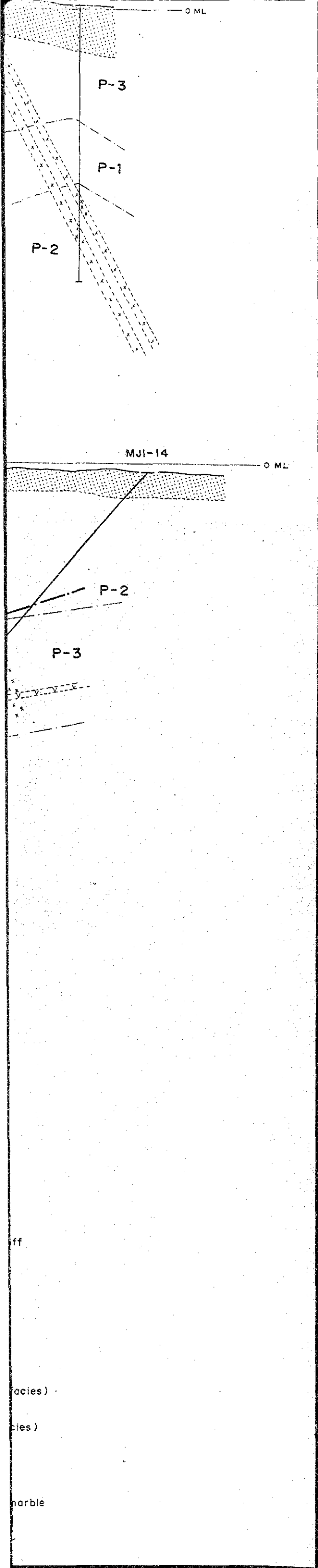
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

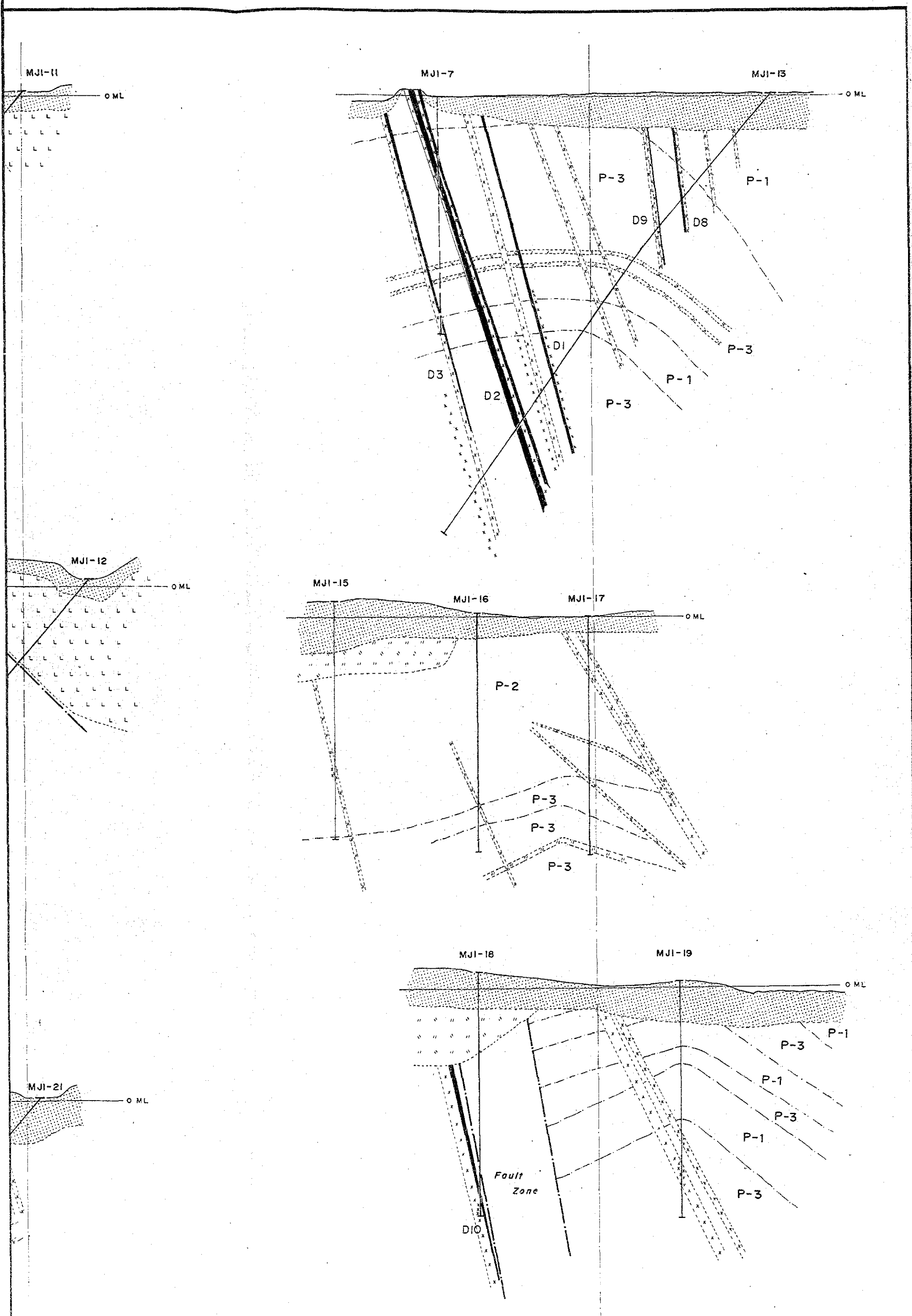


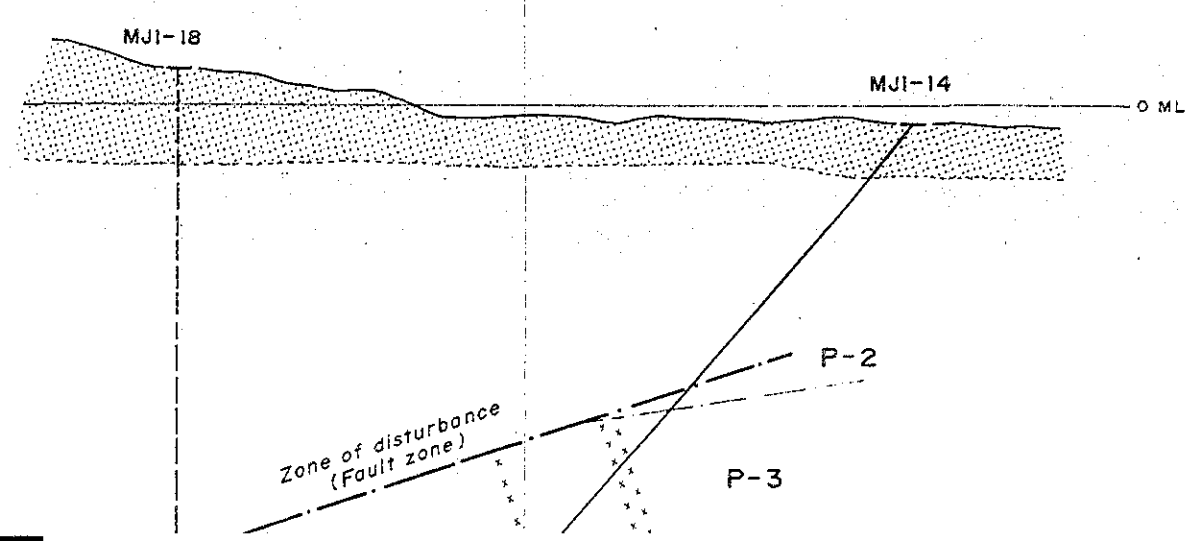
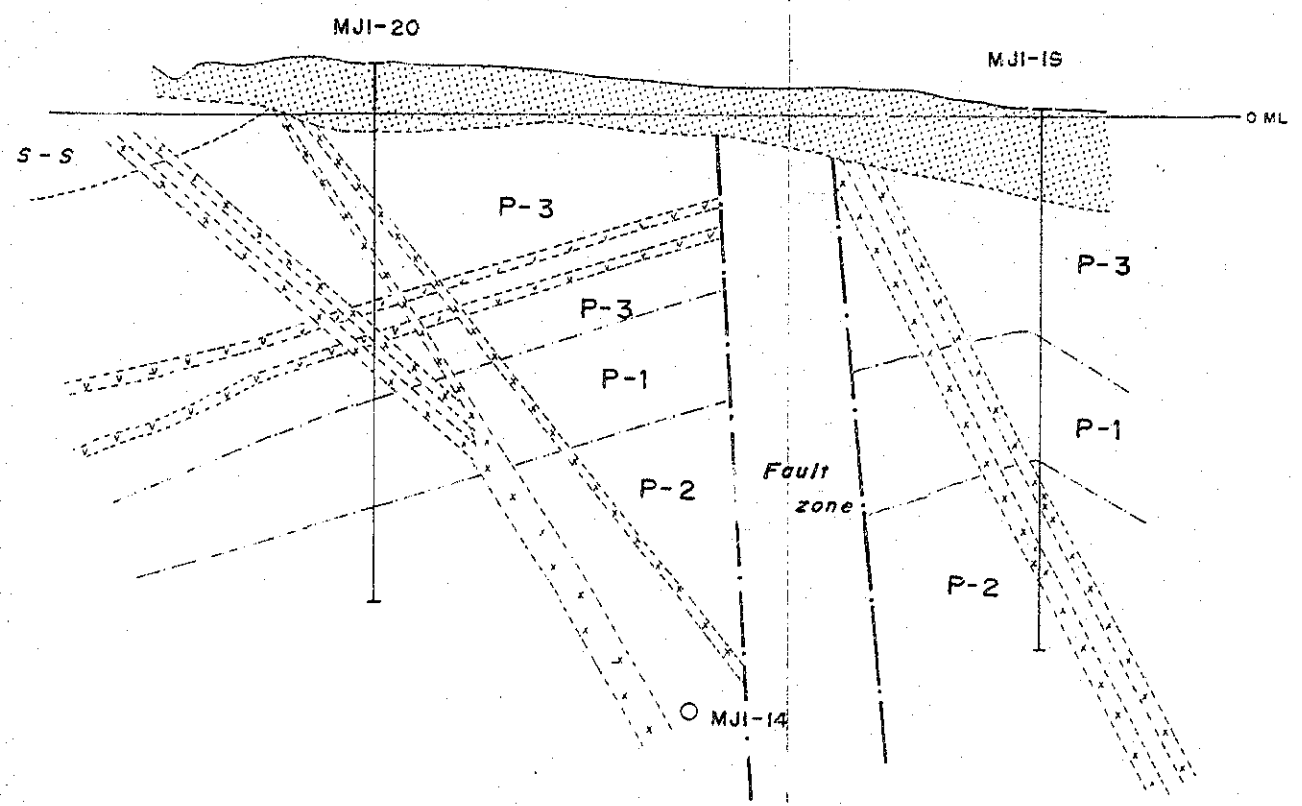
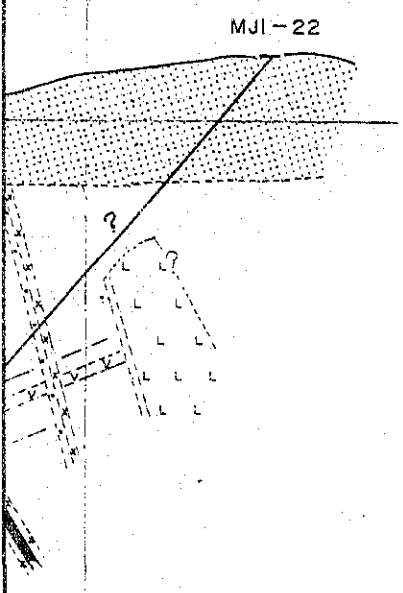
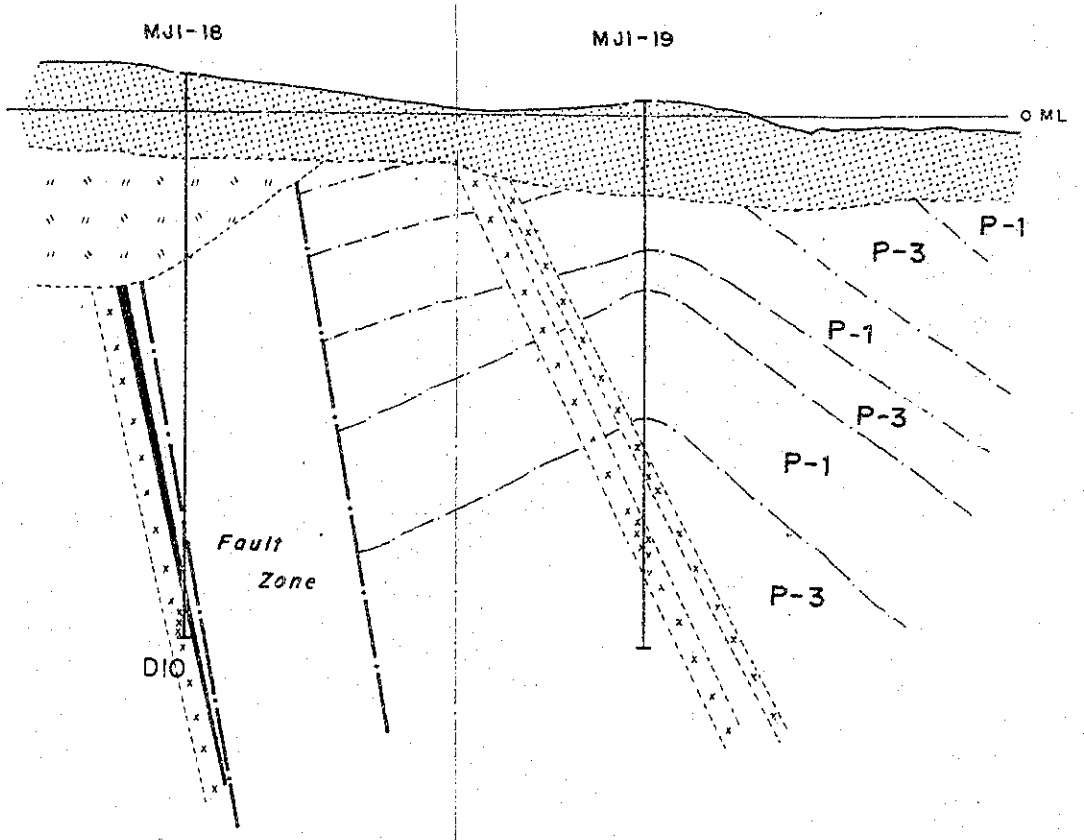
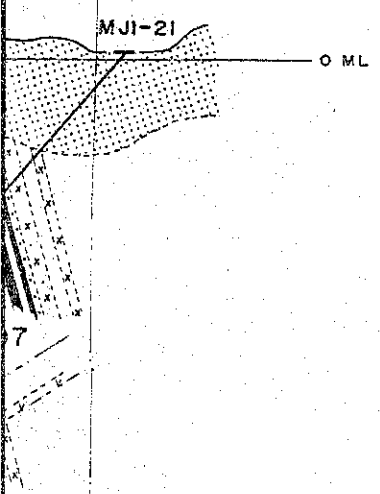
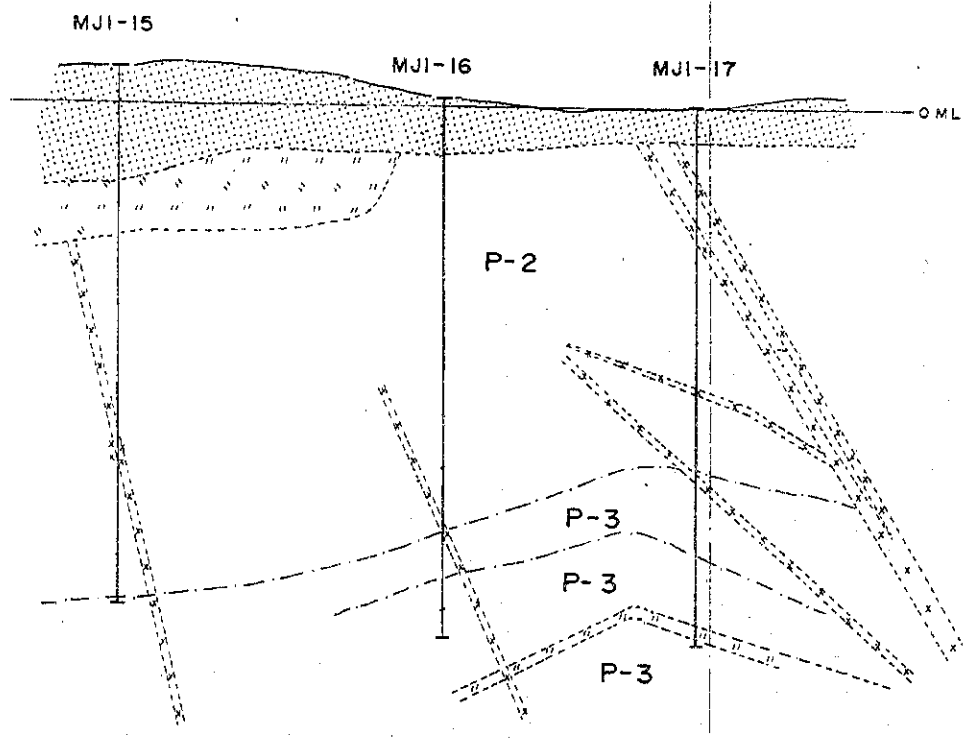
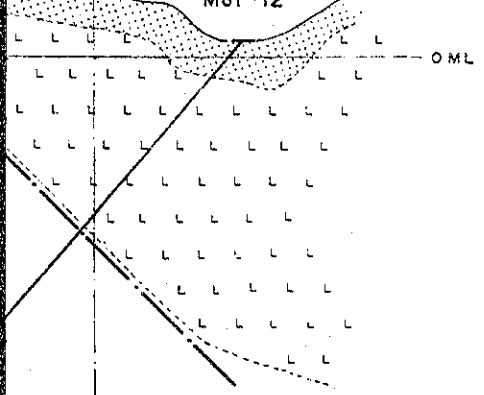
- Reconnaissance Survey Area (Phase I)
- Detailed Survey Area (Phase II)
- Detailed Survey Area (Phase I)
- Drilling Survey Area (Phase II, III)

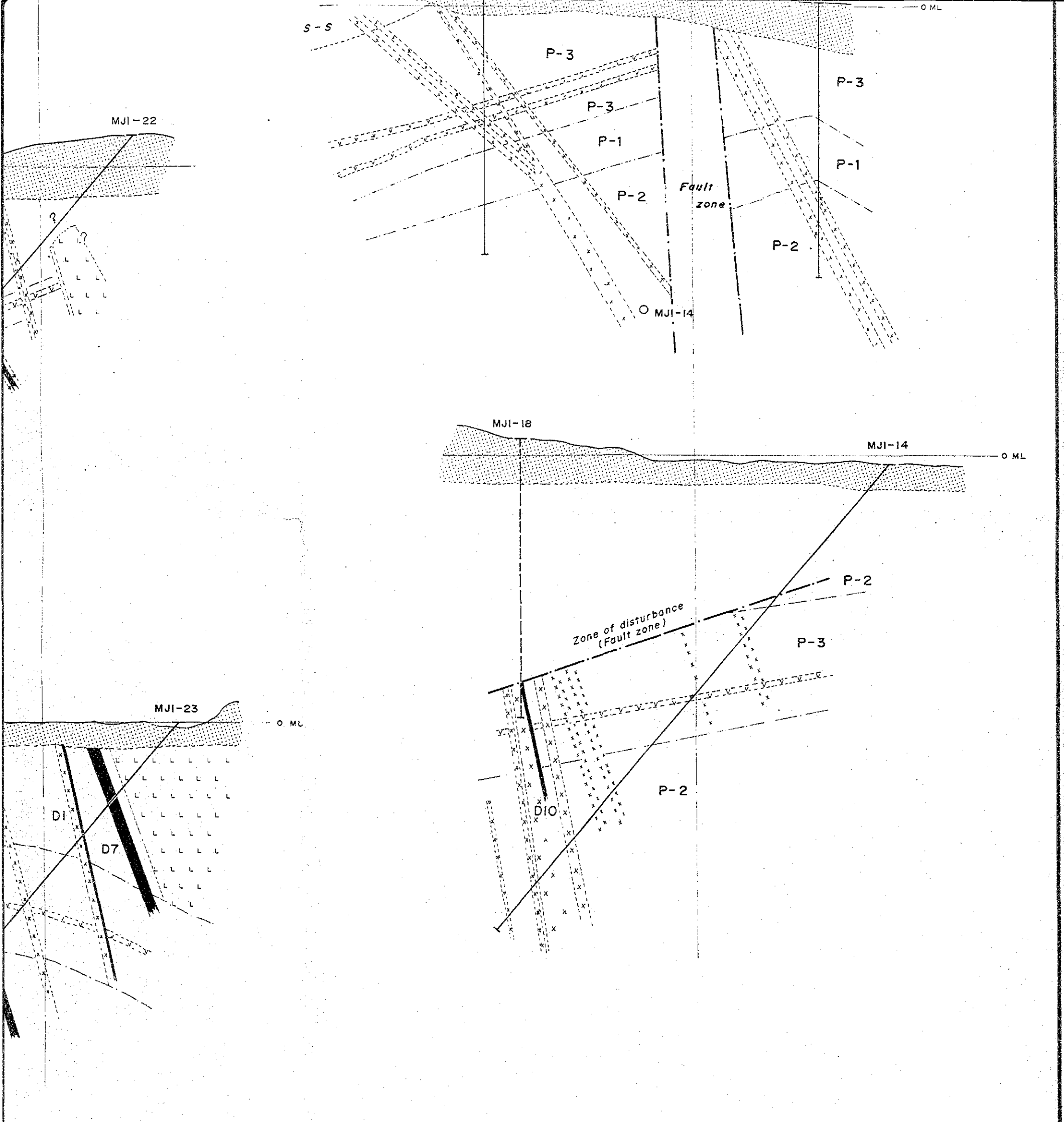
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










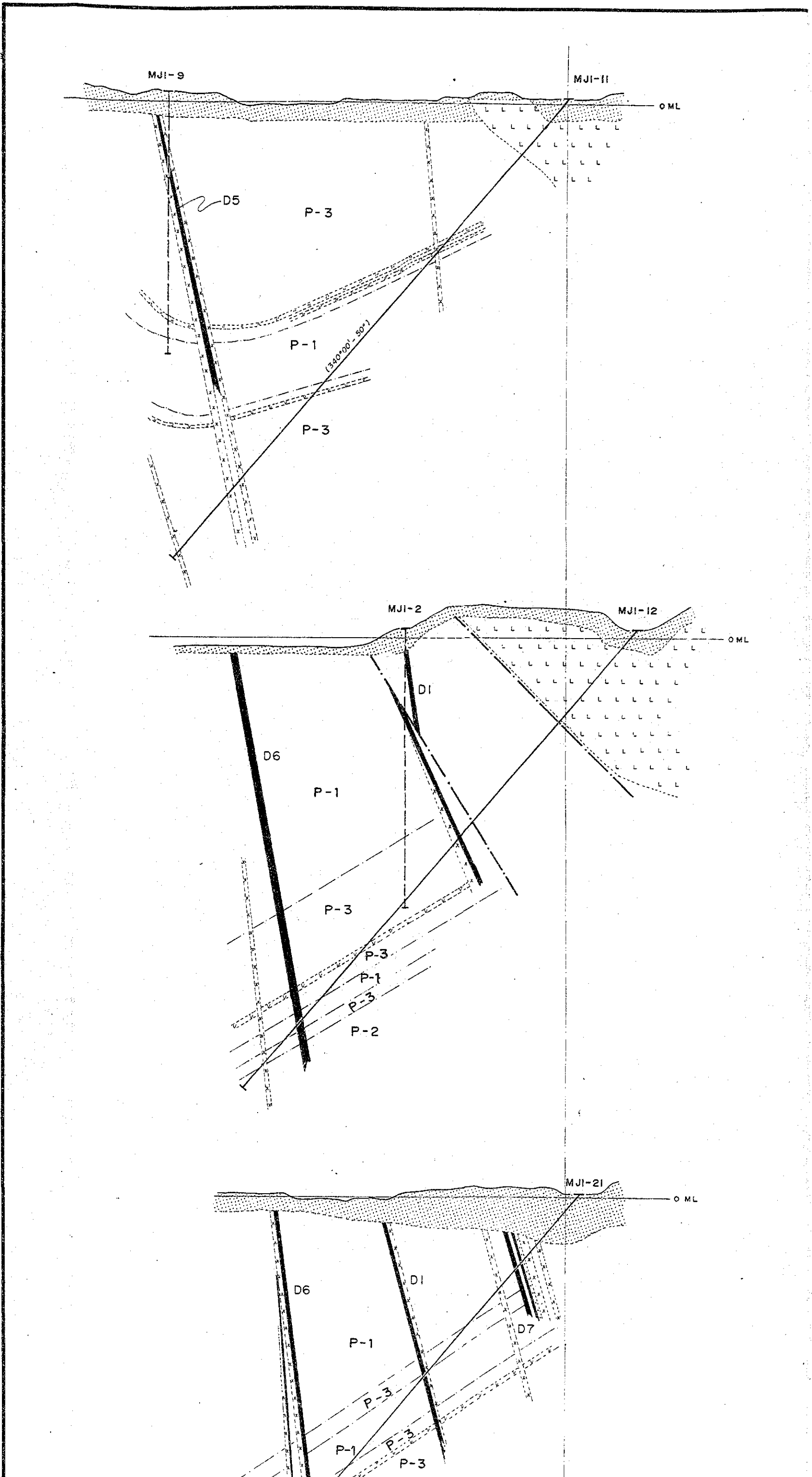


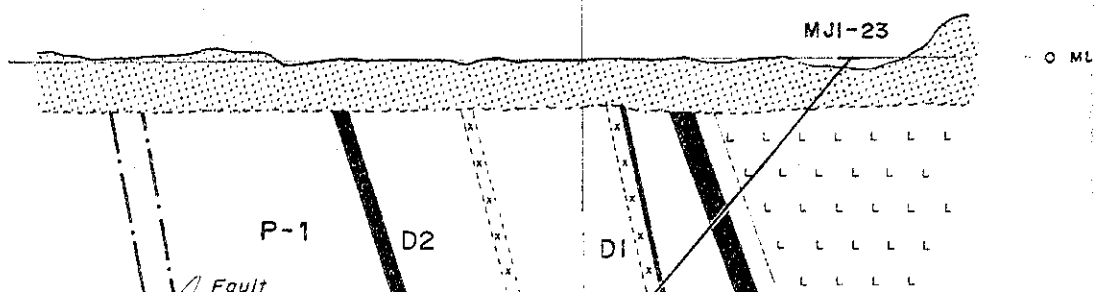
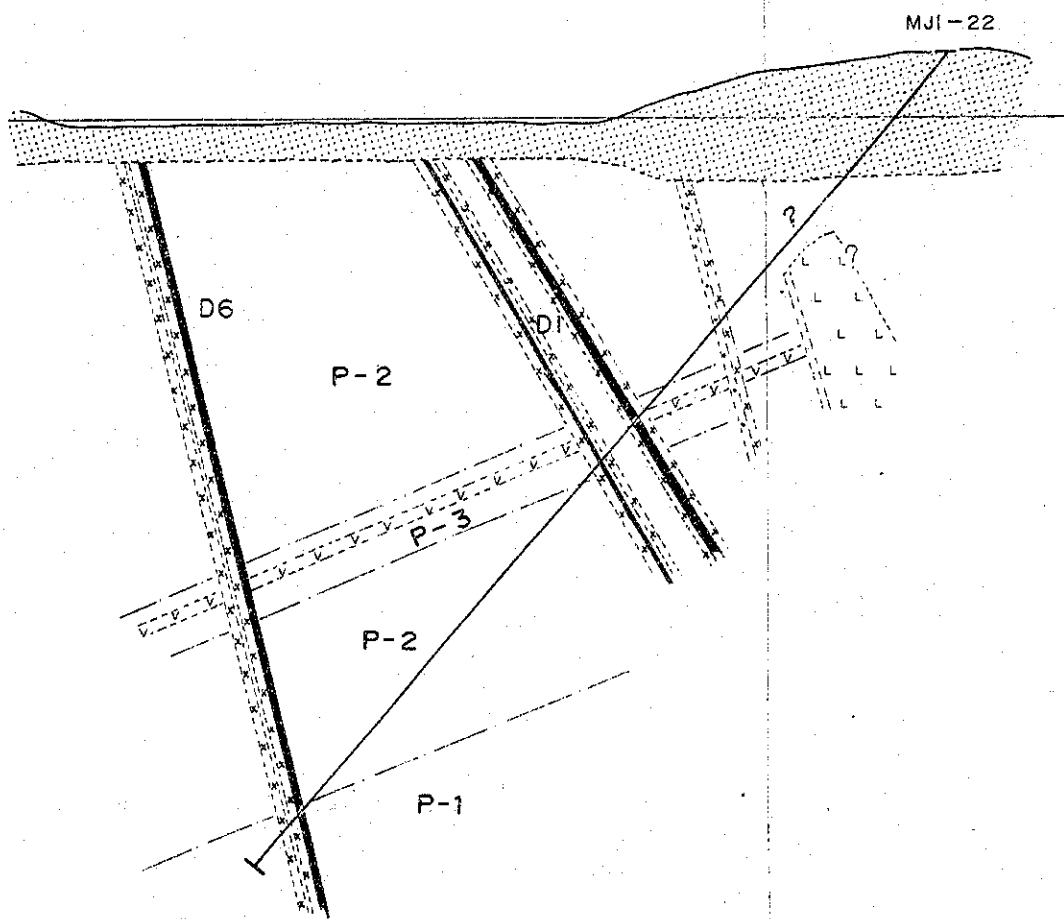
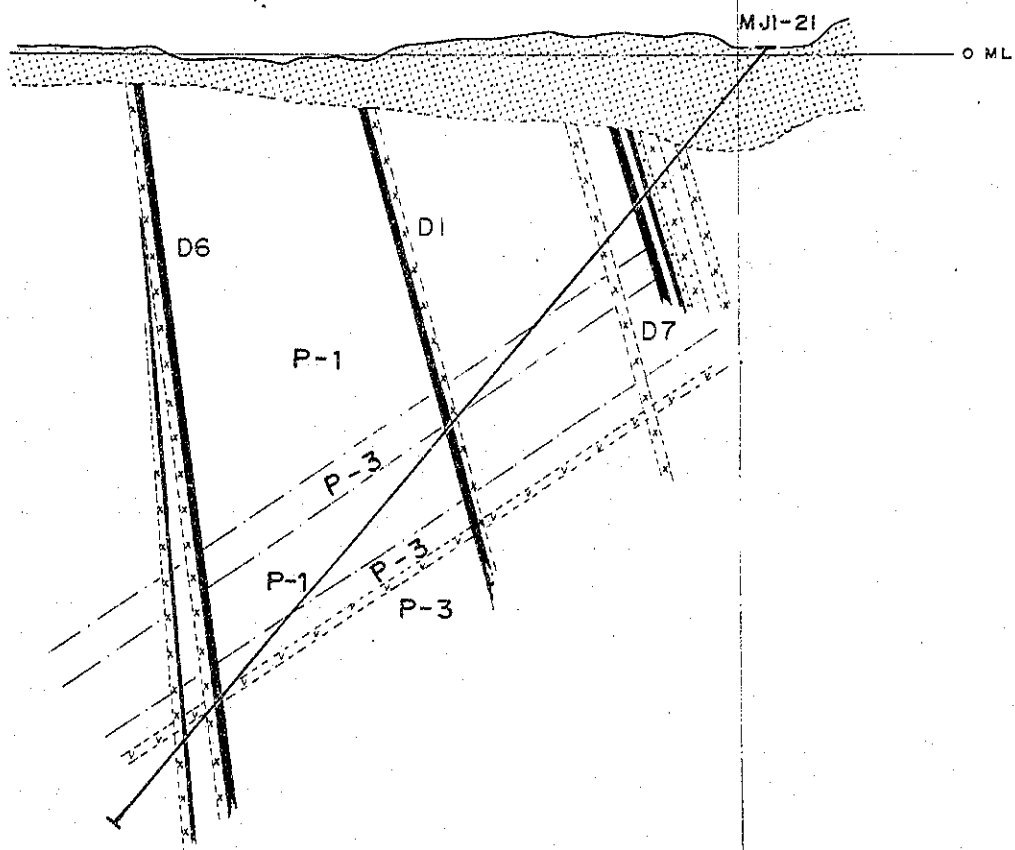
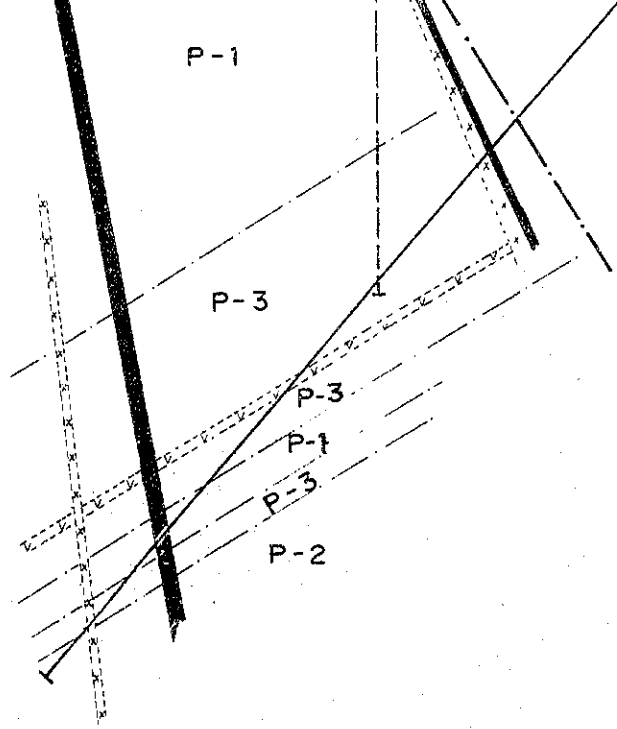
LEGEND :

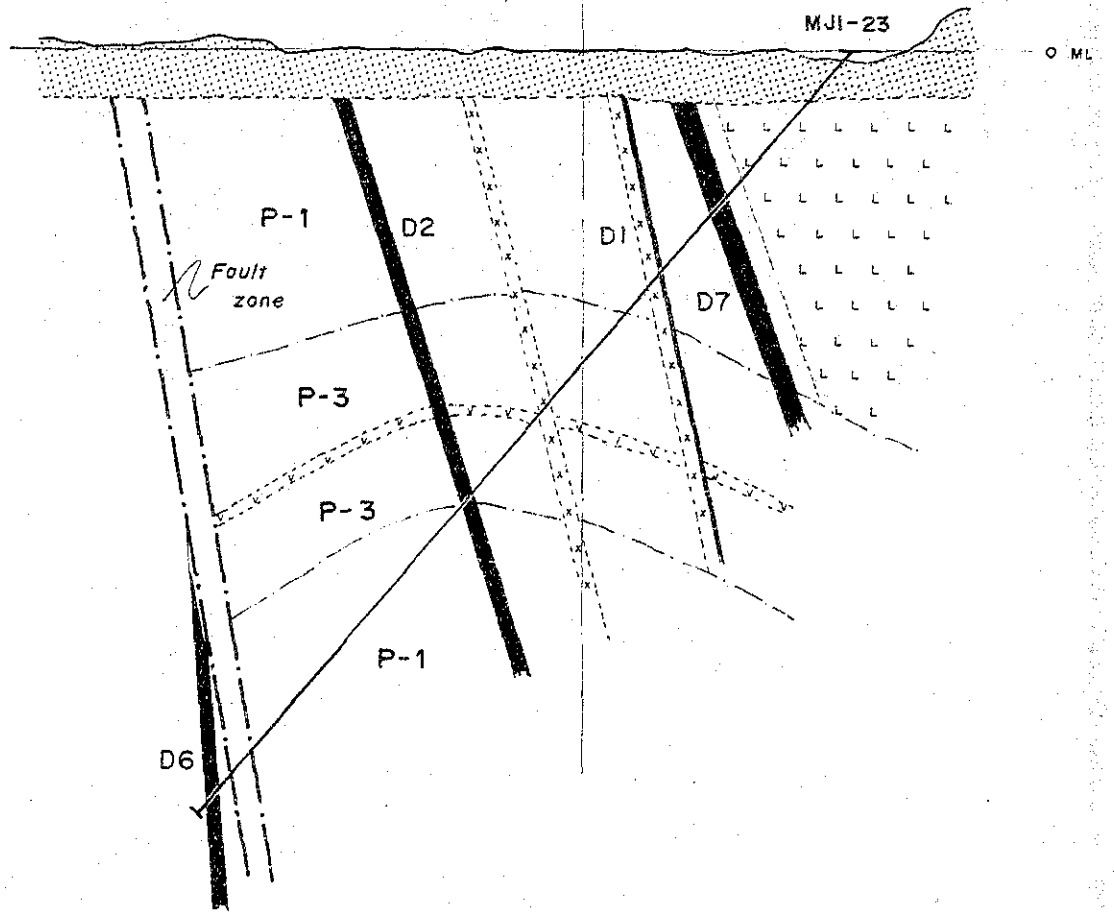
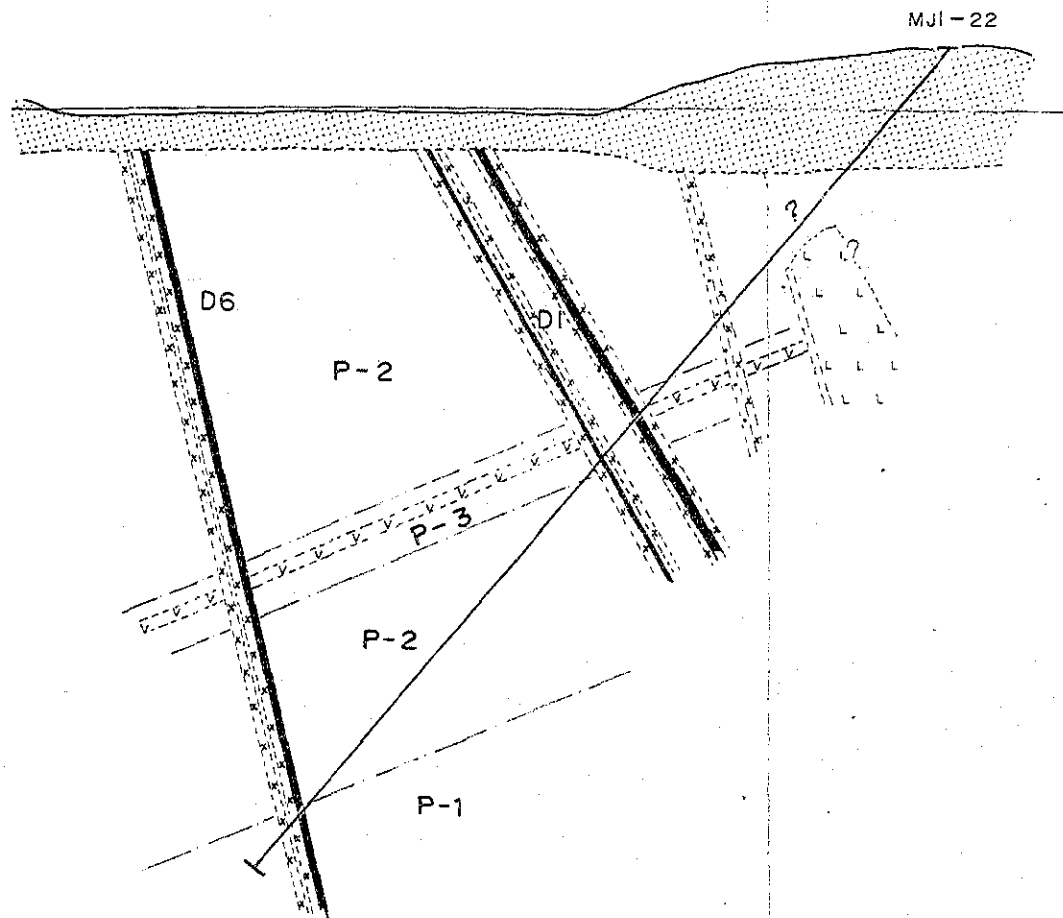
-  Surface soil
-  Weak consolidated crystal tuff
-  Marble (P-1 , P-2 , P-3)
-  Tuff
-  Mafic lava
-  Alkaline intrusive (shallow facies)
-  Alkaline intrusive (Deep facies)
-  Mineralized zone
-  Boundary of grain size of marble

**LE OF PHASE - III
MATRA AREA**

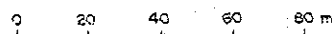
60 80 m





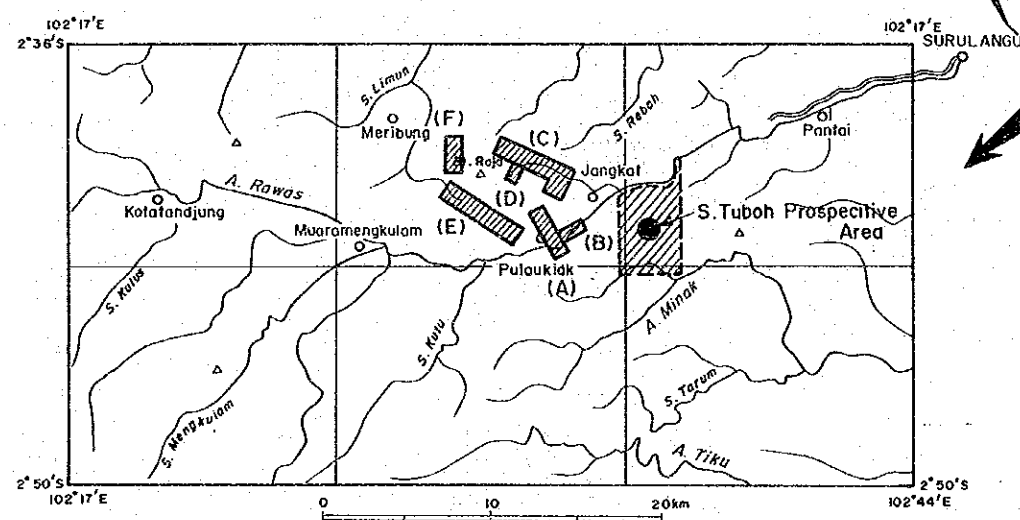
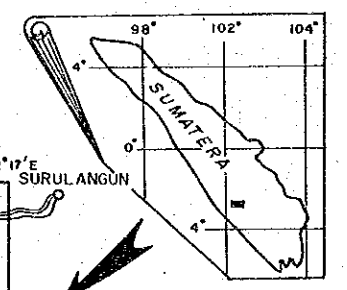


DRILLING PROFILE OF PHASE - III
SOUTHERN SUMATRA AREA



REPORT ON THE MINERAL EXPLORATION OF
SOUTHERN SUMATRA AREA, THE REPUBLIC OF INDONESIA
PHASE III

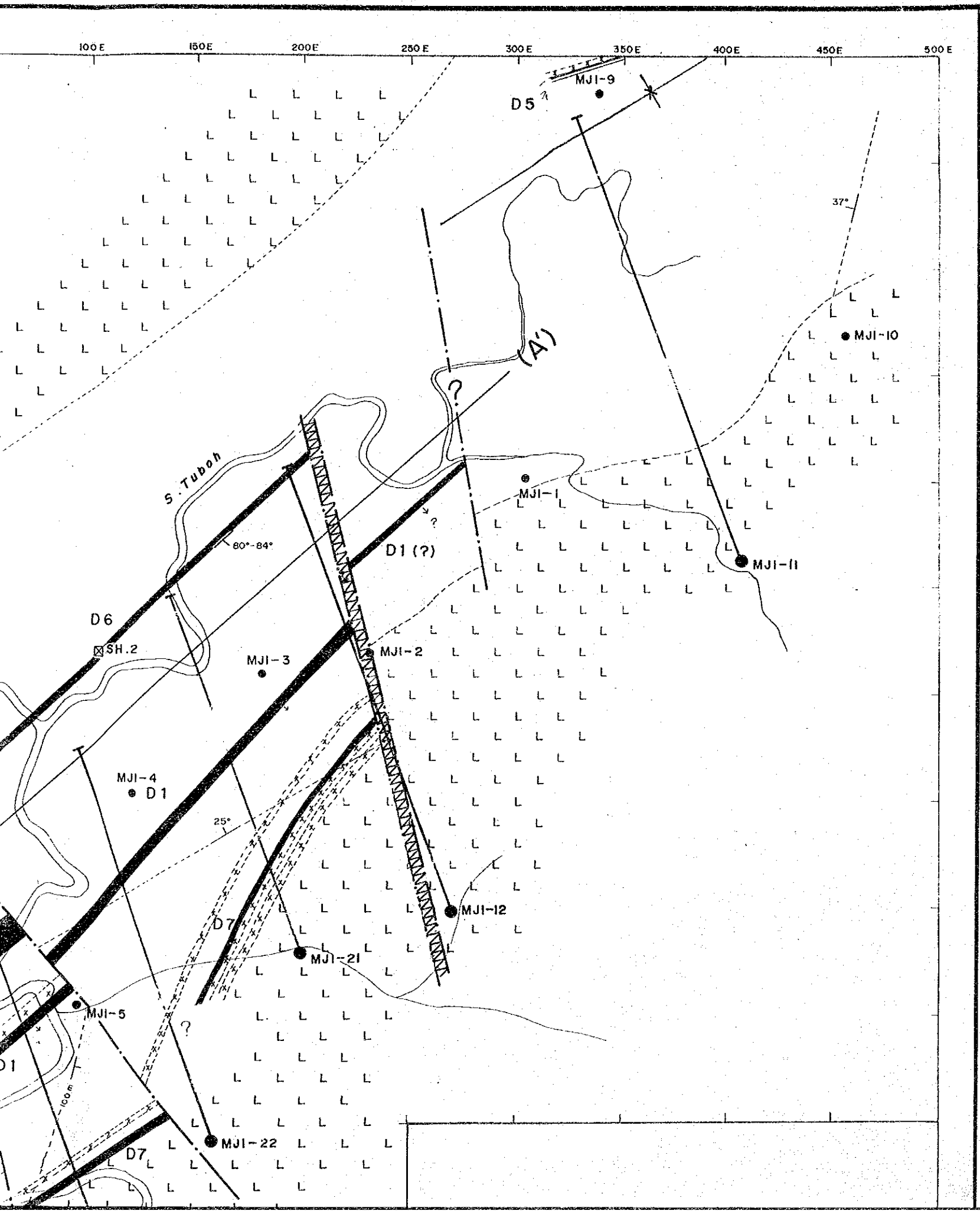
DISTRIBUTION MAP OF MINERALIZATION
IN S. TUBOH
SOUTHERN SUMATRA
INDONESIA

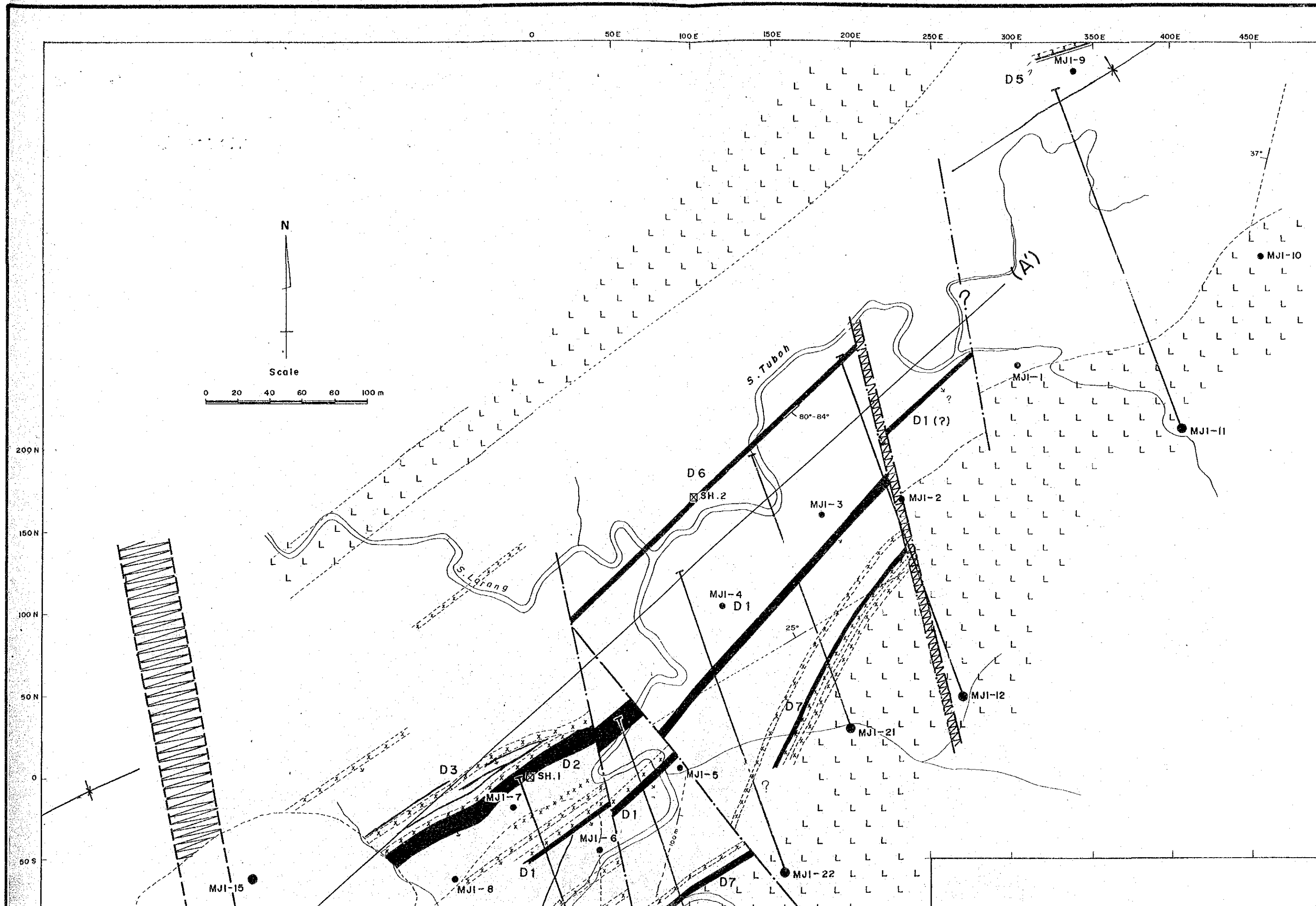


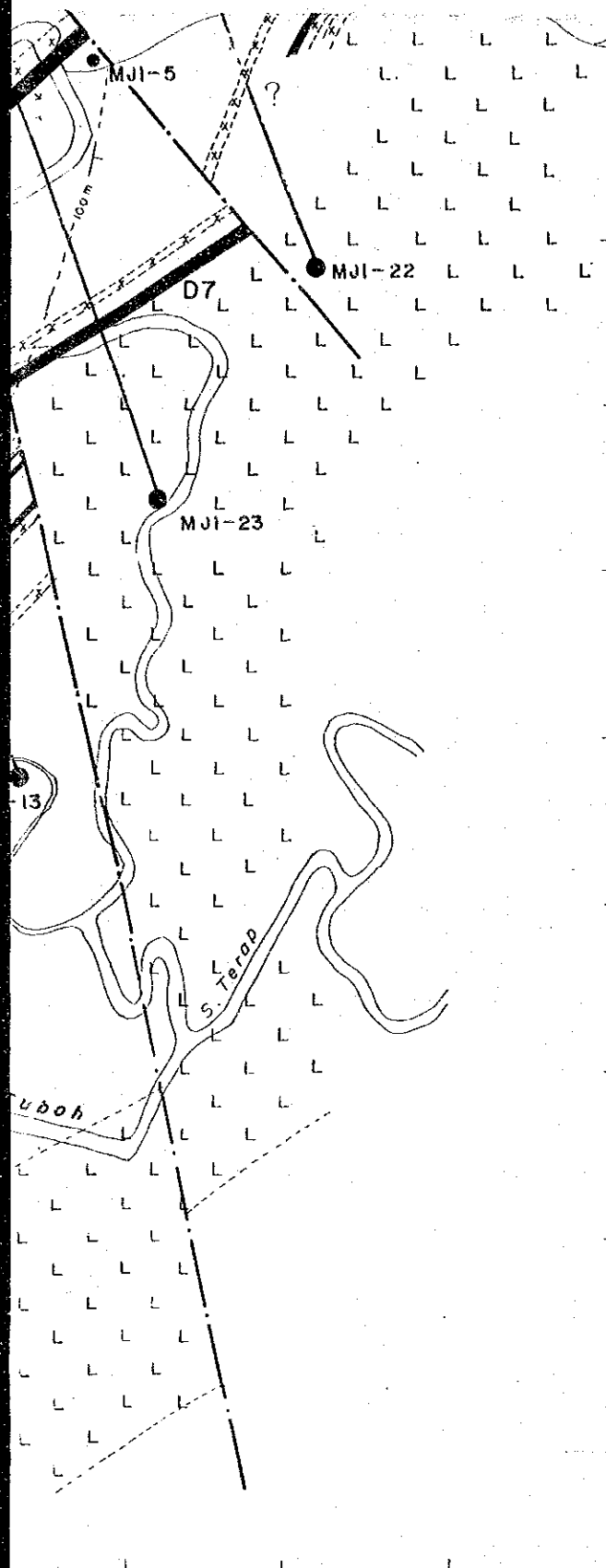
□ Reconnaissance Survey Area (Phase I) ▨ Detailed Survey Area (Phase II)
▩ Detailed Survey Area (Phase I) ● Drilling Survey Area (Phase II, III)

FEBRUARY 1988

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LEGEND :

- Alkaline intrusive (Shallow facies)
- Alkaline intrusive (Deep facies)
- Mineralized zone
- 100 mL of mafic lava
- Fault zone
- Fault
- Vertical
- Inclined
- Drill holes in phase-II
- A—A' Profile Line

Drill holes
in phase-III

Drill holes
in phase-II

