

APPENDICES



Appendix 1 Assay Result of Ore Samples Collected from Trenches

試料 番号	採取位置	試料名	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)
TA101	MJT-1,94-95.2m from E end	Sili. zone with Qtz vein	0.4	<1	<0.01	<0.01	<0.01
TA102	MJT-1,94.5m from E end	Sili. sandstone	<0.4	<1	<0.01	<0.01	<0.01
TA103	MJT-1 98m from E end	Dissemi. part	0.8	<1	<0.01	<0.01	<0.01
TA104	MJT-1 116m from E end	Hematite veinlet	0.4	1	<0.01	0.01	0.06
TA105	MJT-1 109m from E end	Hematite vein	<0.4	2	<0.01	0.05	0.08
TA106	MJT-1 106m from E end	Hematite network	0.4	11	0.02	0.29	0.26
TA107	MJT-1 102m from E end	Hematite network	0.4	3	<0.01	0.07	0.05
TA108	MJT-1 150.5m from E end	Sili. zone	<0.4	<1	<0.01	<0.01	<0.01
TA109	MJT-1 151.5m from E end	Massive hematite	<0.4	<1	<0.01	<0.01	<0.01
TA110	MJT-1 154m from E end	Dissemi. part	0.4	<1	0.02	0.03	0.01
TA111	MJT-1 165m from E end	Dissemi. part	<0.4	<1	0.03	0.03	0.01
TA112	MJT-1 15m from E end	Hematite network	0.4	<1	<0.01	0.01	0.01
TA201	MJT-2 39m from E end	Limonite network	<0.4	1	<0.01	0.04	<0.01
TA202	MJT-2 50m from E end	Limonite network	0.4	<1	<0.01	0.04	0.05
TA203	MJT-2 149.5m from E end	Limonite network	0.4	<1	<0.01	0.02	0.03
TA204	MJT-2 170m from E end	Limonite network	<0.4	<1	<0.01	0.01	0.03
TA205	MJT-2 167m from E end	Hema.-Goe. network	0.4	<1	<0.01	0.01	0.02
TA206	MJT-2 186.5m from E end	Hematite vein	0.4	<1	<0.01	<0.01	0.01
TA207	MJT-2 194m from E end	Limonite vein	0.4	<1	<0.01	<0.01	0.04
TA301	MJT-3 185m from E end	Hematite network	<0.4	<1	<0.01	<0.01	0.01
TA302	MJT-3 179.5m from E end	Calcite vein	0.4	<1	<0.01	<0.01	<0.01
TA303	MJT-3 170-171m from E end	Hematite network	0.4	<1	<0.01	<0.01	<0.01
TA304	MJT-3 169-170m from E end	Hematite network	<0.4	<1	<0.01	<0.01	<0.01
TA305	MJT-3 168-169m from E end	Hematite network	<0.4	<1	<0.01	<0.01	<0.01
TA306	MJT-3 160.7m from E end	Hematite network	<0.4	<1	<0.01	0.01	0.02
TA307	MJT-3 160m from E end	Hematite network	0.4	<1	<0.01	<0.01	<0.01
TA308	MJT-3 159.3m from E end	Hematite network	<0.4	<1	<0.01	0.01	<0.01
TA309	MJT-3 158.5m from E end	Hematite network	0.4	<1	<0.01	<0.01	0.01
TA310	MJT-3 136m from E end	Goethite vein	0.4	<1	<0.01	0.03	0.05
TA311	MJT-3 123.5m from E end	Hematite network	0.4	<1	<0.01	<0.01	0.03

Appendix 2 Assay Result of Rock Samples Collected from Trenches (1)

試料 番号	採取位置	試料記載	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
TG101	MJT-1 95.2-97.2m from E end	Fine sandstone	31	<1	19	20	44
TG102	MJT-1 97.2-99.2m from E end	Fine sandstone	29	<1	31	20	41
TG103	MJT-1 99.2-101.2m from E end	Fine sandstone	30	<1	29	20	36
TG104	MJT-1 92-94m from E end	Siltstone	21	<1	23	40	53
TG105	MJT-1 90-92m from E end	Siltstone	29	<1	28	<10	54
TG106	MJT-1 88-90m from E end	Fine sandstone	29	<1	32	20	53
TG107	MJT-1 86-88m from E end	Fine sandstone	52	<1	22	10	46
TG108	MJT-1 84-86m from E end	Fine sandstone	23	<1	16	20	52
TG109	MJT-1 82-84m from E end	Fine sandstone	32	<1	21	10	44
TG110	MJT-1 80-82m from E end	Fine sandstone	26	<1	43	40	64
TG111	MJT-1 102-104m from E end	Limestone with Hema. network	<10	5	4	230	256
TG112	MJT-1 104-106m from E end	Limestone with Hema. network	15	8	4	160	512
TG113	MJT-1 106-108m from E end	Limestone with Hema. network	29	5	33	3240	1272
TG114	MJT-1 108-110m from E end	Limestone with Hema. network	<10	2	6	420	1010
TG115	MJT-1 110-112m from E end	Limestone with Hema. veinlet	<10	2	9	390	1282
TG116	MJT-1 112-114m from E end	Limestone with Hema. veinlet	11	2	4	200	828
TG117	MJT-1 114-116m from E end	Limestone with Hema. veinlet	<10	2	6	140	616
TG118	MJT-1 116-118m from E end	Limestone with Hema. veinlet	<10	2	10	80	484
TG119	MJT-1 118-120m from E end	Limestone	<10	2	4	60	242
TG120	MJT-1 120-122m from E end	Limestone with Hema. veinlet	<10	<1	4	220	484
TG121	MJT-1 141-143m from E end	Fine sandstone	25	<1	44	40	40
TG122	MJT-1 143-145m from E end	Fine sandstone	26	<1	48	20	33
TG123	MJT-1 145-147m from E end	Fine sandstone	33	<1	36	60	38
TG124	MJT-1 147-149m from E end	Fine sandstone	20	<1	19	20	36
TG125	MJT-1 149-151m from E end	Fine sandstone	24	<1	28	10	36
TG126	MJT-1 151-153m from E end	Siltstone	24	<1	41	30	39
TG127	MJT-1 153-155m from E end	Aplite	17	<1	35	40	36
TG128	MJT-1 155-157m from E end	Aplite	13	<1	21	30	30
TG129	MJT-1 157-159m from E end	Coarse sandstone	19	<1	42	70	58
TG130	MJT-1 159-161m from E end	Coarse sandstone	15	<1	31	60	87
TG131	MJT-1 161-163m from E end	Fine sandstone	14	<1	36	70	195
TG132	MJT-1 163-165m from E end	Fine sandstone	16	<1	29	50	161
TG133	MJT-1 165-167m from E end	Fine sandstone	238	<1	116	150	460
TG134	MJT-1 167-169m from E end	Fine sandstone	50	<1	56	150	309
TG135	MJT-1 169-171m from E end	Shear zone	70	<1	69	120	332
TG136	MJT-1 171-173m from E end	Shear zone	12	<1	5	50	108
TG137	MJT-1 173-175m from E end	Limestone with Hema. veinlet	10	<1	5	100	120
TG138	MJT-1 175-177m from E end	Limestone with Hema. veinlet	12	<1	5	30	291
TG139	MJT-1 177-179m from E end	Limestone with Hema. veinlet	<10	<1	4	50	307
TG140	MJT-1 179-181m from E end	Limestone with Hema. veinlet	13	<1	5	60	225
TG141	MJT-1 181-183m from E end	Limestone with Hema. veinlet	<10	<1	6	90	295
TG142	MJT-1 183-185m from E end	Limestone with Hema. veinlet	13	<1	14	300	416

Appendix 2 Assay Result of Rock Samples Collected from Trenches (2)

試料 番号	採取位置	試料記載	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
TG143	MJT-1 185-187m from E end	Limestone with Hema. veinlet	<10	<1	8	120	264
TG144	MJT-1 187-189m from E end	Limestone with Hema. veinlet	<10	<1	4	140	243
TG145	MJT-1 189-191m from E end	Limestone with Hema. veinlet	<10	<1	4	80	256
TG201	MJT-2 60-62m from E end	Limestone with Hema. veinlet	16	<1	3	250	155
TG202	MJT-2 62-64m from E end	Limestone with Hema. veinlet	<10	<1	2	370	202
TG203	MJT-2 64-66m from E end	Limestone with Hema. veinlet	<10	<1	4	430	506
TG204	MJT-2 66-68m from E end	Limestone with Hema. veinlet	12	<1	3	190	187
TG205	MJT-2 68-70m from E end	Limestone with Hema. veinlet	<10	<1	3	160	215
TG206	MJT-2 70-72m from E end	Limestone with Hema. veinlet	13	<1	3	140	165
TG207	MJT-2 72-74m from E end	Limestone with Hema. veinlet	<10	<1	4	150	273
TG208	MJT-2 74-76m from E end	Limestone with Hema. veinlet	10	<1	5	260	251
TG209	MJT-2 76-78m from E end	Limestone with Hema. veinlet	<10	<1	3	190	255
TG210	MJT-2 78-80m from E end	Limestone with Hema. veinlet	<10	<1	4	120	222
TG211	MJT-2 80-82m from E end	Limestone with Hema. veinlet	<10	<1	3	150	207
TG212	MJT-2 82-84m from E end	Limestone with Hema. veinlet	<10	<1	3	120	209
TG213	MJT-2 84-86m from E end	Limestone with Hema. veinlet	<10	<1	3	130	242
TG214	MJT-2 86-88m from E end	Limestone with Hema. veinlet	16	<1	3	70	201
TG215	MJT-2 88-90m from E end	Shear zone with Hemalite	13	<1	7	250	427
TG216	MJT-2 90-92m from E end	Shear zone with Hematite	<10	<1	6	210	396
TG217	MJT-2 92-94m from E end	Shear zone with Hematite	10	<1	4	200	260
TG218	MJT-2 94-96m from E end	Shear zone with Hematite	<10	<1	3	160	245
TG219	MJT-2 96-98m from E end	Limestone with Hema. veinlet	<10	<1	4	160	220
TG220	MJT-2 98-100m from E end	Limestone with Hema. veinlet	<10	<1	4	160	311
TG221	MJT-2 100-102m from E end	Limestone with Hema. veinlet	<10	<1	8	130	389
TG222	MJT-2 102-104m from E end	Limestone with Hema. veinlet	<10	<1	16	320	460
TG223	MJT-2 104-106m from E end	Limestone with Hema. veinlet	<10	<1	5	160	259
TG224	MJT-2 106-108m from E end	Limestone with Hema. veinlet	<10	<1	2	210	175
TG225	MJT-2 108-110m from E end	Limestone with Hema. veinlet	<10	<1	3	70	72
TG226	MJT-2 110-112m from E end	Limestone with Hema. veinlet	<10	<1	3	50	61
TG227	MJT-2 112-114m from E end	Limestone with Hema. veinlet	<10	<1	3	30	54
TG228	MJT-2 114-116m from E end	Limestone with Hema. veinlet	<10	<1	11	200	327
TG229	MJT-2 116-118m from E end	Limestone with Hema. veinlet	<10	<1	4	50	259
TG230	MJT-2 118-120m from E end	Limestone with Hema. veinlet	<10	<1	4	40	300
TG301	MJT-3 118-120m from E end	Limestone with Hema. veinlet	<10	<1	2	120	70
TG302	MJT-3 116-118m from E end	Limestone with Hema. veinlet	<10	<1	2	70	80
TG303	MJT-3 114-116m from E end	Limestone with Hema. veinlet	<10	<1	3	20	80
TG304	MJT-3 112-114m from E end	Limestone with Hema. veinlet	<10	<1	8	80	135
TG305	MJT-3 110-112m from E end	Limestone with Hema. veinlet	<10	<1	3	20	73
TG306	MJT-3 108-110m from E end	Limestone with Hema. veinlet	<10	<1	5	50	125
TG307	MJT-3 106-108m from E end	Limestone with Hema. veinlet	<10	<1	13	150	286
TG308	MJT-3 104-106m from E end	Limestone with Hema. veinlet	<10	<1	3	20	73
TG309	MJT-3 102-104m from E end	Limestone with Hema. veinlet	<10	<1	5	70	184

Appendix 2 Assay Result of Rock Samples Collected from Trenches (3)

試料 番号	採取位置	試料記載	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
TG310	MJT-3 100-102m from E end	Limestone with Hema. veinlet	<10	<1	<1	20	64
TG311	MJT-3 98-100m from E end	Limestone with Hema. veinlet	<10	<1	<1	20	57
TG312	MJT-3 98-98m from E end	Limestone with Hema. veinlet	<10	<1	2	30	40
TG313	MJT-3 94-96m from E end	Limestone with Hema. veinlet	<10	<1	5	20	54
TG314	MJT-3 92-94m from E end	Limestone with Hema. veinlet	<10	<1	3	130	117
TG315	MJT-3 90-92m from E end	Limestone with Hema. veinlet	<10	<1	5	20	76
TG316	MJT-3 88-90m from E end	Limestone with Hema. veinlet	<10	<1	4	30	89
TG317	MJT-3 86-88m from E end	Limestone with Hema. veinlet	<10	<1	8	140	147
TG318	MJT-3 84-86m from E end	Limestone with Hema. veinlet	<10	<1	4	20	43
TG319	MJT-3 82-84m from E end	Limestone with Hema. veinlet	<10	<1	3	30	84
TG320	MJT-3 80-82m from E end	Limestone with Hema. veinlet	<10	<1	3	40	92
TG321	MJT-3 78-80m from E end	Limestone with Hema. veinlet	<10	<1	2	50	192
TG322	MJT-3 76-78m from E end	Limestone with Hema. veinlet	<10	<1	3	60	193
TG323	MJT-3 74-76m from E end	Limestone with Hema. veinlet	<10	<1	2	70	96
TG324	MJT-3 72-74m from E end	Limestone with Hema. veinlet	<10	<1	6	250	239
TG325	MJT-3 70-72m from E end	Limestone with Hema. veinlet	<10	<1	5	210	240

Appendix 3 Assay Result of Ore Samples Collected from Drill Holes

試料 番号	採取位置	試料記載	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)
BA201	MJVS-2, 208.0 m	Hematite-goethite veinlet	<0.4	1	<0.01	0.05	0.16
BA301	MJVS-3, 17.3 - 17.7 m	Hematite-goethite vein	0.4	<1	<0.01	0.04	0.09
BA302	MJVS-3, 26.0 - 26.5 m	Hematite-goethite vein	0.4	1	<0.01	0.04	0.02
BA303	MJVS-3, 70.0 - 70.1 m	Goethite-hematite vein	0.4	<1	<0.01	0.01	0.01
BA304	MJVS-3, 87.3 - 88.2 m	Limonite vein	0.4	1	<0.01	0.06	0.10
BA305	MJVS-3, 85.9 m	Hematite veinlet	0.4	<1	<0.01	0.04	0.02

Appendix 4 Assay Result of Rock Samples Collected from Drill Holes

試料 番号	採取位置	試料記載	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
BG201	MJVS-2, 84.5 - 85.5 m	Siltstone	58	<1	81	71	231
BG202	MJVS-2, 85.5 - 86.5 m	Siltstone / fine sandstone	86	<1	107	40	291
BG203	MJVS-2, 86.5 - 87.5 m	Fine sandstone	72	<1	90	22	99
BG204	MJVS-2, 87.5 - 88.5 m	Fine sandstone	40	<1	52	13	73
BG205	MJVS-2, 88.5 - 89.5 m	Fine sandstone	67	<1	49	13	98
BG206	MJVS-2, 89.5 - 90.5 m	Fine sandstone	68	<1	57	22	136
BG207	MJVS-2, 90.5 - 91.5 m	Fine sandstone	61	<1	39	16	101
BG208	MJVS-2, 91.5 - 92.5 m	Siltstone / fine sandstone	196	<1	59	1841	943
BG209	MJVS-2, 92.5 - 93.5 m	Fine sandstone	84	<1	20	555	352
BG210	MJVS-2, 93.5 - 94.5 m	Fine sandstone	36	<1	28	196	341
BG211	MJVS-2, 112.0 - 114.0 m	Sheared limestone	13	1	15	610	474
BG212	MJVS-2, 114.0 - 116.4 m	Sheared limestone	16	<1	10	810	614
BG213	MJVS-2, 118.0 - 120.0 m	Sheared limestone	18	<1	10	500	223
BG214	MJVS-2, 120.0 - 122.0 m	Sheared limestone	11	1	10	350	251
BG215	MJVS-2, 122.0 - 124.0 m	Sheared limestone	13	1	26	150	104
BG216	MJVS-2, 124.0 - 126.0 m	Sheared limestone	16	1	13	210	153
BG217	MJVS-2, 126.0 - 128.0 m	Sheared limestone	21	1	9	190	118
BG218	MJVS-2, 128.0 - 130.0 m	Sheared limestone	11	<1	8	150	559
BG219	MJVS-2, 130.0 - 132.0 m	Sheared limestone	26	1	11	230	192
BG220	MJVS-2, 132.0 - 134.0 m	Sheared limestone	47	1	11	140	61
BG221	MJVS-2, 134.0 - 136.0 m	Sheared limestone	86	1	10	210	133
BG222	MJVS-2, 136.0 - 138.8 m	Sheared limestone	50	<1	11	210	122
BG223	MJVS-2, 152.0 - 153.7 m	Sheared limestone	52	<1	15	350	507
BG224	MJVS-2, 172.0 - 174.0 m	Sheared limestone	29	<1	11	140	250
BG225	MJVS-2, 174.0 - 176.0 m	Sheared limestone	62	<1	15	180	1322
BG226	MJVS-2, 176.0 - 178.0 m	Sheared limestone	23	<1	33	120	204
BG227	MJVS-2, 178.0 - 180.0 m	Sheared limestone	45	<1	15	80	258
BG228	MJVS-2, 180.0 - 182.0 m	Sheared limestone	36	<1	10	60	151
BG229	MJVS-2, 182.0 - 184.0 m	Sheared limestone	53	<1	12	110	691
BG230	MJVS-2, 184.0 - 186.0 m	Sheared limestone	35	<1	20	80	203
BG231	MJVS-2, 186.0 - 188.0 m	Sheared limestone	30	<1	78	50	198
BG232	MJVS-2, 188.0 - 189.0 m	Sheared limestone	28	<1	10	40	107
BG301	MJVS-3, 67.6 - 69.6 m	Sheared limestone	52	<1	37	260	276
BG302	MJVS-3, 69.6 - 70.0 m	Sheared limestone	162	<1	45	190	354
BG303	MJVS-3, 121.6 - 123.6 m	Sheared limestone	69	<1	15	110	205
BG304	MJVS-3, 123.6 - 125.6 m	Sheared limestone	27	<1	16	70	134
BG305	MJVS-3, 125.6 - 126.7 m	Sheared limestone	16	<1	13	70	169
BG306	MJVS-3, 136.2 - 138.2 m	Sheared limestone	18	<1	50	220	617
BG307	MJVS-3, 138.2 - 140.2 m	Sheared limestone	33	<1	32	180	569
BG308	MJVS-3, 140.2 - 142.5 m	Sheared limestone	28	<1	54	70	336
BG309	MJVS-3, 29.5 - 30.5 m	Sheared limestone	13	<1	9	320	164

Appendix 5 Result of the Measurement of Physical Properties on Cores

試料番号	試料採取位置	試料名	Resistivity (ohm-m)	Chargiability (ms)
GP101	MJVS-1, 65.7 m	Calcareous fine sandstone	241	372.6
GP102	MJVS-1, 73.5 m	Limestone with Py dissemi.	148	369.8
GP103	MJVS-1, 77.2 m	Calcareous fine sandstone	6,383	25.5
GP104	MJVS-1, 124.4 m	Fine sandstone	1,072	8.2
GP105	MJVS-1, 144.0 m	Calcareous fine sandstone	862	187.7
GP106	MJVS-1, 157.0 m	Limestone	11,222	11.9
GP201	MJVS-2, 142.0 m	Limestone	28,498	2.7
GP202	MJVS-2, 155.8 m	Limestone breccia	11,521	3.3
GP301	MJVS-3, 36.2 m	Limestone	19,816	3.1
GP302	MJVS-3, 107.4 m	Limestone breccia	9,866	5.2
GP303	MJVS-3, 176.3 m	Limestone	26,971	1.0
GP401	MJVS-4, 12.5 m	Calcareous mudstone	275	4.6
GP402	MJVS-4, 28.0 m	Calcareous mudstone	403	40.3
GP403	MJVS-4, 65.1 m	Calcareous mudstone	296	16.3
GP404	MJVS-4, 70.6 m	Limestone	1,120	79.6
GP405	MJVS-4, 114.0 m	Calcareous fine sandstone	14,344	52.6
GP406	MJVS-4, 120.8 m	Calcareous mudstone	112	70.5

Appendix 6 Drilling Meterage and Diamond Bit Consumption

Item	Size	Bit No.	Drilling Meterage				Total (m)
			MJVS-1	MJVS-2	MJVS-3	MJVS-4	
Diamond Bit	NQ	10001	8.00				8.00
		10002			9.60		9.60
		10003			17.30		17.30
		Total	8.00		26.90		34.90
			Drilling Length/Bit 11.6m				

Appendix 7 Specifications of Drilling Machine and Equipment

Drilling Machine Model "L-38" Specifications: Capacity Dimension L x W x H Hoisting capacity Spindle speed Engine model "Deutz 4FL"	1 set 575m(NQ), 725m(BQ) 2,440mm x 1,070mm x 1,450mm 3,000kg 236, 490, 900, 1,510rpm 60hp
Drilling Machine Model "SBK-4" Specifications: Capacity Dimension L x W x H Hoisting capacity Spindle speed Engine model "Deutz 4FL"	3 set 300m(NQ), 500m(BQ) 5,200mm x 1,050mm x 1,300mm 2,500kg 280, 640, 710, 1,600rpm 55hp
Drilling Pump Model "NB3-120/40" Specifications: Piston diameter and Stroke Discharge capacity Dimension L x W x H Engine model "D12"	6 sets 60mm, 90mm 120 liter/min at 40kg/cm ² 1,050mm x 600mm x 550mm 12hp
Drilling Pump Model "11GRI" Specifications: Piston diameter and Stroke Discharge capacity Dimension L x W x H Engine model "D50"	1 set 100mm, 150mm 300 liter/min at 63kg/cm ² 1,500mm x 900mm x 1,000mm 50hp
Generator Model "G200/6.5" Specifications: Capacity	4 sets 6.5kw 50hz 220/380v
Derrick for L-38 Specifications: Height and Max load capacity	8.5m, 10,000kg
Derrick for SBK-4 Specifications: Height and Max load capacity	7.5m, 12,000kg
Drilling tools	
Drilling rod 2 1/2" 6.0m	95 pcs
Drilling rod 2 1/2" 3.0m	35 pcs
Drilling rod NQ-WL 6.0m	8 pcs
Drilling rod NQ-WL 3.0m	220 pcs
Casing pipe 127mm 1.0m	5 pcs
Casing pipe 127mm 1.5m	5 pcs
Casing pipe 127mm 6.0m	25 pcs
Casing pipe 108mm 1.0m	20 pcs
Casing pipe 108mm 1.5m	8 pcs
Casing pipe 108mm 6.0m	60 pcs
Casing pipe 89mm 1.0m	10 pcs
Casing pipe 89mm 1.5m	5 pcs
Casing pipe 89mm 6.0m	45 pcs

Appendix 8 Consumption of Expendable Items

Description	Specifi- cations	Unit	Quantity				Total
			MJVS-1	MJVS-2	MJVS-3	MJVS-4	
Light oil		liter	2,300	2,200	1,800	1,200	7,500
Hydraulic oil		liter	40	60	50	40	190
Engine oil		liter	60	80	65	60	265
Greas		kg	5	7	6	5	23
Bentonite		kg	65,000	50,000	35,000	8,000	158,000
C.M.C.		kg	400	360	280	100	1,140
Cement		kg	2,200	2,200	1,000	1,000	6,400
Diamond bit	NQ-WL,NQ	pc	1		2		3
Diamond reamer	NQ-WL	pc	1				1
Metal bit	132 mm	pc	4	6	15	5	30
Metal bit	110 mm	pc	60	65	68	50	243
Metal bit	91 mm	pc	45	50	53	35	183
Metal bit	76 mm	pc	50	30	35	20	135
Metal bit	59 mm	pc	25				25
Metal Bit	NQ-WL	pc	2		1		3
Core barrel Ass'y	NQ-WL	set	2	2	1		5
Inner tube Ass'y	NQ-WL	set	3	2	1		6
Inner tube	NQ-WL	pc	2	1	1		4
Core lifter case	NQ-WL	pc	2	2	1		5
Core lifter	NQ-WL	pc	3	1	1		5
Single core tube	108 mm	pc	6	5	6	3	20
Double core tube	108 mm	pc	3	4	4	2	13
Single core tube	89 mm	pc	10	13	12	6	41
Double core tube	89 mm	pc	4	6	6	3	19
Single core tube	74 mm	pc	10	8	7	3	28
Double core tube	74 mm	pc	3				3
Chuck piece		pc	8	8	8	8	32
Hoisting wire rope		meter	50	48	48	48	194
Wireline rope		meter	500	500			1,000
Core box		box	34	43	43	32	152
Water pipe		meter	1,300	300	1,000	1,000	3,600

Appendix 9 Summary of Working Time

Hole No.	Bit Size	Drilling		shift		Man Working		Working Time							
		Drilling Length	Core Length	Drilling	Total	Engineer	Worker	Drilling	Other Works	Recovery	Total	Assess-ment	Dismant-ment	Trans-portion	Grand Total
		m	m	shift	shift	man	man	hours	hours	hours	hours	hours	hours	hours	hours
MVB-1	112 mm	31.50	27.20	7	7	10	14	22	74	48	96	8	152		
	91 mm	51.00	42.15	23	34	46	68	50	152	30	232		232		
	76 mm	83.90	54.20	42	83	200	168	87	497	80	664		664		
	Total	166.40	123.55	72	124	356	250	159	733	110	992	8	1048		
MVB-2	112 mm	72.00	66.40	19	21	25	38	51	137	28	216	16	288		
	91 mm	135.00	90.50	54	80	113	178	133	387	64	584		584		
	76 mm	3.00	1.70	2	7	7	14	3	41		64		64		
	Total	210.00	158.60	75	108	145	230	187	565	92	864	16	936		
MVB-3	112 mm	16.10	13.60	4	4	6	8	17	10		27	14	91		
	91 mm	157.30	102.35	52	70	83	140	137	368	96	601		601		
	76 mm	32.90	17.80	10	17	22	34	25	27	48	100		100		
	Total	206.30	133.75	66	91	111	182	179	405	144	728	16	792		
MVB-4	112 mm	60.00	48.40	13	15	18	30	36	60	16	112	16	216		
	91 mm	82.00	56.20	28	40	49	82	65	175	96	336		336		
	76 mm	18.00	9.30	3	3	4	6	9	15		24		24		
	Total	160.00	113.90	44	58	71	118	110	250	112	472	16	576		

Appendix 10 Record of Drilling Operation (MJVS-1)

MJVS-1

Date	Drilling Length			Total Drilling Length (m)	Core Length (m)	Shift		Working Man	
	Shift 1 (m)	Shift 2 (m)	Shift 3 (m)			Drilling (shift)	Total (shift)	Engineer (man)	Worker (man)
10/14	Assemb						1	3	4
10/15	Assemb						1	2	4
10/16	Assemb						1	3	4
10/17	Assemb						1	3	4
10/18	Assemb						1	2	4
10/19	Assemb						1	2	4
10/20	2.00	4.00		6.00	4.55		2	3	4
10/21	9.00	7.00		16.00	14.85		2	3	4
10/22	3.00	5.00		8.00	6.50		2	2	4
10/23	1.50	Casing		1.50	1.30		1	2	4
10/24	Casing	Casing					2	3	4
10/25	Casing	Casing					2	2	4
10/26	0.80	Repair		0.80	0.80		1	2	4
10/27	1.70	3.00		4.70	4.40		2	3	4
10/28	0.40	2.10		2.50	2.20		2	2	4
10/29	0.50	1.70		2.20	1.65		2	2	4
10/30									
10/31									
11/1	3.00	1.30		4.30	3.20		2	2	4
11/2	0.70	3.30		4.00	3.20		2	2	4
11/3	2.50	2.50		5.00	3.90		2	3	4
11/4									
11/5	1.00	5.00		6.00	5.20		2	3	4
11/6	5.00	3.00		8.00	6.10		2	3	4
11/7	3.00	1.50		4.50	3.70		2	2	4
11/8	2.50			2.50	2.10		1	2	2
11/9									
11/10		Casing					1	3	2
11/11	Casing	Recover					2	3	4
11/12	Recover	1.50		1.50	1.10		1	2	4
11/13	2.50			2.50	2.10		1	3	2
11/14									
11/15	2.50	Casing		2.50	2.50		1	2	4
11/16	2.50	0.50		3.00	2.30		2	2	4
11/17	2.20	2.80	2.50	7.50	6.30		3	4	6
11/18	2.00	3.00	1.50	6.50	5.20		3	3	6
11/19	Clean	0.50	Repair	0.50	0.50		1	3	6
11/20	Repair						1	4	6
11/21	Repair	Clean	3.50	3.50	2.50		1	3	6
11/22	Clean	2.00	1.50	3.50	1.40		2	3	6
11/23	1.50	1.50	Repair	3.00	1.50		2	3	6
11/24	Repair	Clean	Clean				3	4	6
11/25	Clean	Clean	2.00	2.00	0.00		1	3	6
11/26		1.00		1.00	0.50		1	2	2
11/27									
11/28	0.30	1.70		2.00	0.70		2	3	4
11/29		1.50	Trouble	1.50	0.00		1	2	4
11/30	Recover	1.50	6.50	8.00	6.40		2	3	6
12/1	Clean	0.70	0.80	1.50	1.10		2	3	6
12/2	Prepar	1.00	2.00	3.00	2.50		2	3	6
12/3		3.00	2.50	5.50	4.00		2	2	4
12/4	1.50	2.50	3.00	7.00	1.70		3	4	6
12/5	2.50	3.00		5.50	3.30		2	3	4
12/6									
12/7	2.50	4.10	2.40	9.00	8.00		3	3	6
12/8	2.00	Clean	Clean	2.00	1.50		1	3	6
12/9	4.50	Clean	Clean	4.50	2.20		1	3	6
12/10	1.20	Clean	0.50	1.70	1.10		2	3	6
12/11	0.80	Clean	Trouble	0.80	0.50		2	3	4
12/12	Clean	Cement					2	3	4
12/13									
12/14									
12/15	Clean	Clean	1.40	1.40	1.00		1	3	6
12/16	Clean	Clean	Clean				3	3	6
12/17	Clean	Clean					2	2	4
12/18	Clean	Clean	Clean				3	4	6
12/19	Clean	Clean	Clean				3	4	6
12/20	Clean	Clean	Clean				3	3	6
12/21	Clean						1	2	2
12/22									
12/23									
12/24	Dismant						1	4	6
Total				166.40	123.55		72	131	280

Abbreviation

Assemb : Assemblage
 Casing : Insert casing
 Cement : Cementing

Clean : Clean out the hole
 Dismant : Dismantlement
 Prepar : Preparation

Recover : Recovery from trouble
 Repair : Repair drilling equipment
 Setup : Repair drilling equipment

Appendix 11 Record of Drilling Operation (MJVS-2)

Date	Drilling Length			Total Drilling Length (m)	Core Length (m)	Shift		Working Man	
	Shift 1 (m)	Shift 2 (m)	Shift 3 (m)			Drilling (shift)	Total (shift)	Engineer (man)	Worker (man)
10/15	Assemb						1	3	6
10/16	Assemb						1	4	6
10/17	Assemb						1	4	6
10/18	Assemb						1	3	6
10/19	Assemb						1	3	6
10/20	Assemb						1	4	6
10/21	Assemb	5.00		5.00	4.40	1	2	3	6
10/22	8.90	1.10		10.00	9.90	2	2	2	4
10/23	Repair						1	2	2
10/24	Repair						1	2	2
10/25	9.00	4.40		13.40	13.20	2	2	2	4
10/26	3.00	4.60		7.60	6.90	2	2	2	4
10/27	3.00	4.60	4.40	12.00	11.40	3	3	4	6
10/28	2.50	2.30	1.20	6.00	5.20	3	3	3	6
10/29	3.00	3.50	3.10	9.60	7.90	3	3	3	6
10/30	3.50	2.90	2.00	8.40	7.50	3	3	4	6
10/31									
11/1	Clean						1	2	2
11/2	Casing						1	1	2
11/3	Clean						1	2	2
11/4	Recover						1	2	2
11/5	5.70	2.90	0.60	9.20	4.30	3	3	3	6
11/6	2.10	3.40	2.30	7.80	6.20	3	3	4	6
11/7	2.00	1.00		3.00	2.20	2	2	3	4
11/8									
11/9									
11/10		3.40	2.00	5.40	4.70	2	2	3	4
11/11	1.20			1.20	0.70	1	1	2	2
11/12	1.40	1.00	1.00	3.40	2.30	3	3	3	6
11/13	3.40			3.40	3.00	1	2	3	4
11/14									
11/15	Clean	1.60		1.60	0.90	1	3	3	6
11/16	1.50	1.00	1.50	4.00	3.10	3	3	3	6
11/17	Repair	Clean	Cement				3	4	6
11/18									
11/19	Cement	Cement	0.50	0.50	0.50	1	3	3	6
11/20	Clean	Trouble					2	3	4
11/21	Recover						1	2	2
11/22	Trouble						1	2	2
11/23									
11/24									
11/25									
11/26									
11/27	Recover						1	3	4
11/28	Recover						1	3	4
11/29	Recover						1	2	4
11/30	Recover						1	2	4
12/1	Recover						1	3	4
12/2	Recover						1	3	4
12/3									
12/4	Recover						1	3	4
12/5	Recover						1	3	4
12/6									
12/7	Clean	0.50	2.00	2.50	2.10	2	3	3	6
12/8	2.00	1.30	1.70	5.00	3.70	3	3	4	6
12/9	3.00	3.80	3.80	10.60	5.70	3	3	3	6
12/10	1.40	2.00	2.20	5.60	4.40	3	3	3	6
12/11	3.60	3.20	3.00	9.80	6.30	3	3	4	6
12/12	1.50	2.20	1.30	5.00	2.00	3	3	4	6
12/13	Trouble	3.70	2.30	6.00	3.50	2	2	2	4
12/14	3.00	5.00	4.00	12.00	7.20	3	3	3	6
12/15	1.00	5.00	4.00	10.00	5.30	3	3	4	6
12/16	4.50	3.10	5.10	12.70	8.80	3	3	3	6
12/17	2.30	3.50	1.70	7.50	5.90	3	3	3	6
12/18	3.50	2.80	2.50	8.80	7.40	3	3	4	6
12/19	Clean	2.00	Clean	2.00	1.20	1	3	4	6
12/20	Clean	Clean	1.00	1.00	0.50	1	3	3	6
12/21	Clean	Clean					2	3	4
12/22									
12/23									
12/24	Dismant						1	4	6
12/25	Dismant						1	4	6
Total				210.00	158.60	75	117	176	284

Abbreviation

Assemb : Assemblage
 Casing : Insert casing
 Cement : Cementing

Clean : Clean out the hole
 Dismant : Dismantlement
 Prepar : Preparation

Recover : Recovery from trouble
 Repair : Repair drilling equipment
 Setup : Repair drilling equipment

Appendix 12 Record of Drilling Operation (MJVS-3)

MJVS-3

Date	Drilling Length			Total Drilling Length (m)	Core Length (m)	Shift		Working Man	
	Shift 1 (m)	Shift 2 (m)	Shift 3 (m)			Drilling (shift)	Total (shift)	Engineer (man)	Worker (man)
11/9	Assemb						1	2	4
11/10	Assemb						1	2	4
11/11	Assemb						1	2	4
11/12	Assemb						1	2	4
11/13	Assemb						1	2	4
11/14									
11/15	Assemb						1	2	4
11/16	4.00	3.00	7.00	14.00	11.50	3	3	3	6
11/17	6.70	4.00	4.30	15.00	8.70	3	3	4	6
11/18	4.00	3.00	3.20	10.20	6.20	3	3	3	6
11/19	0.80	Reaming	Trouble	0.80	0.40	1	3	4	6
11/20	Repair						1	2	2
11/21	Repair	Reaming	Reaming				3	4	6
11/22	4.00	9.50	1.50	15.00	9.90	3	3	3	6
11/23	3.00	4.00	4.60	11.60	8.70	3	3	3	6
11/24	5.40	5.00	3.40	13.80	11.60	3	3	4	6
11/25	5.00	2.50	Repair	7.50	5.80	2	3	3	6
11/26	Repair	4.60	3.50	8.10	7.20	2	3	3	6
11/27	Repair	4.00	3.50	7.50	3.40	2	3	4	6
11/28	Repair	3.90		3.90	3.20	1	2	3	4
11/29	0.90	1.00	Trouble	1.90	1.40	2	3	3	6
11/30	Repair						1	2	2
12/1	Prepar	1.50	Prepar	1.50	1.00	1	3	4	6
12/2	Prepar	Prepar	0.20	0.20	0.00	1	3	3	6
12/3	Repair	4.10	4.00	8.10	3.00	2	3	3	6
12/4	1.00	1.50	Trouble	2.50	1.70	2	3	4	6
12/5	1.60	0.70		2.50	1.20	2	2	3	4
12/6									
12/7	2.60	5.00	4.50	12.10	7.50	3	3	3	6
12/8	Repair	4.00	2.30	6.30	4.70	2	3	4	6
12/9	2.00	1.50	2.40	5.90	2.15	3	3	3	6
12/10	1.80	5.00	3.20	10.00	7.10	3	3	3	6
12/11	5.30			5.30	4.00	1	1	2	2
12/12			3.00	3.00	2.10	1	1	2	2
12/13	2.50	2.20	2.00	6.70	4.10	3	3	3	6
12/14	Clean	Clean					2	2	4
12/15	Casing						1	2	2
12/16	1.60		3.10	4.70	1.90	2	2	2	4
12/17		4.30	1.00	5.30	3.30	2	2	2	4
12/18	Repair	Repair	5.30	5.30	4.50	1	3	4	6
12/19	Clean	6.80	3.10	9.90	4.70	2	3	4	6
12/20	1.40	2.30		3.70	1.00	2	2	3	4
12/21	4.00	Jamming		4.00	2.40	1	2	2	4
12/22	Recover						1	2	2
12/23	Recover	Recover					2	3	4
12/24	Dismant						1	4	6
12/25	Dismant						1	4	6
Total				206.30	133.75	62	99	131	218

Abbreviation

Assemb : Assemblage
Casing : Insert casing
Cement : Cementing

Clean : Clean out the hole
Dismant : Dismantlement
Prepar : Preparation

Recover : Recovery from trouble
Repair : Repair drilling equipment
Setup : Repair drilling equipment

Appendix 13 Record of Drilling Operation (MJVS-4)

MJVS-4

Date	Drilling Length			Total Drilling Length (m)	Core Length (m)	Shift		Working Man	
	Shift 1 (m)	Shift 2 (m)	Shift 3 (m)			Drilling (shift)	Total (shift)	Engineer (man)	Worker (man)
11/18	Assemb						1	2	2
11/19	Assemb						1	1	2
11/20	Assemb						1	2	2
11/21	Assemb						1	2	2
11/22	Assemb						1	2	2
11/23	Assemb						1	1	2
11/24	Assemb						1	2	2
11/25	Assemb						1	2	2
11/26	Assemb						1	2	4
11/27	Assemb						1	2	4
11/28	Assemb						1	3	6
11/29	10.00	4.50	Trouble	14.50	13.00	2	3	3	6
11/30	4.00	3.70	3.80	11.50	7.30	3	3	3	6
12/ 1	6.00	4.00	6.00	16.00	13.20	3	3	4	6
12/ 2	Repair	2.00		2.00	1.60	1	2	3	4
12/ 3	4.50	4.80	3.70	13.00	10.50	3	3	3	6
12/ 4	3.00	1.90	2.10	7.00	6.30	3	3	4	6
12/ 5	3.70	3.80	4.00	11.50	8.50	3	3	4	6
12/ 6	1.50	3.00	Trouble	4.50	3.00	2	3	3	6
12/ 7	Repair	3.00	2.00	5.00	4.00	2	3	3	6
12/ 8	7.00	4.40	3.60	15.00	9.40	3	3	4	6
12/ 9	0.70	2.30		3.00	2.10	2	2	3	4
12/10	3.00	2.00	2.70	7.70	4.90	3	3	3	6
12/11	Repair	2.50	2.00	4.50	2.70	2	3	4	6
12/12	1.10	2.50	2.20	5.80	4.00	3	3	4	6
12/13	Repair	1.40	3.30	4.70	2.70	2	3	3	6
12/14	3.00	3.30	1.70	8.00	5.60	3	3	3	6
12/15	4.30	Trouble		4.30	3.50	1	2	3	4
12/16		Repair	Repair				2	2	4
12/17	Recover	Recover					2	2	4
12/18									
12/19									
12/20									
12/21	Recover	Recover					2	3	4
12/22	Repair	4.00	6.20	10.20	5.90	2	3	4	6
12/23	5.40	6.40		11.80	5.70	2	2	3	4
12/24	Dismant						1	4	6
12/25	Dismant						1	4	6
Total				160.00	113.90	45	72	100	160

Abbreviation

- | | | |
|------------------------|----------------------------|------------------------------------|
| Assemb : Assemblage | Clean : Clean out the hole | Recover : Recovery from trouble |
| Casing : Insert casing | Dismant : Dismantlement | Repair : Repair drilling equipment |
| Cement : Cementing | Prepar : Preparation | Setup : Repair drilling equipment |

Appendix 14 Record of Drilling Performance (MJVS-1)

Operation	Survey period				Total man day		
	Period	Days	Work day	Off day	Engineer	Worker	
			days	days	men	men	
Preparation	14.10.1995 - 19.10.1995	6	6		15	24	
Drilling	20.10.1995 - 21.12.1995	63	Drilling		136	222	
			Recovering	9			20
Removing	22.12.1995 - 24.12.1995	3	1	2	4	6	
Total		72	61	11	175	280	
Drilling Length				Core recovery of 100m hole			
Length planned	166.00m	Overburden	0.00m	Depth of hole (m)	Core recovery (%)	Core recovery cumulated (%)	
Increase or Decrease in length		Core length	123.55m	0.00 - 100.00	83.7	83.7	
Length drilled	166.40m	Core recovery	74.2%	100.00 - 166.40	60.1	74.2	
Working hours	h	%	%	Efficiency of drilling			
Drilling	159	16.6	15.3	Total m / work period (m/day)	166.40m/61days (2.73 m / day)		
Other working	723	72.9	68.9	Total m / work shift (m/shift)	166.40m/124shifts (1.34 m / shift)		
Recovering	110	11.1	10.5	Drilling length/bit (each sized bit)			
Total	992	100.0	94.7	Bit size	112 mm	91 mm	76 mm
Assemblage	48		4.6	Drilled length	31.50	51.00	83.90
Dismantlement	8		0.7	Core length	27.20	42.15	54.20
Water transportation							
Road construction and transportation							
Grand total	1,048		100.0				
Casing pipe inserted							
Size	Meterage (m)	Meterage drilling X 100 length (%)	Recovery (%)				
127mm							
108mm	61.0	36.7	0.0				
89mm	82.5	49.6	0.0				

Appendix 15 Record of Drilling Performance (MJVS-2)

Operation	Survey period				Total man day		
	Period	Days	Work day	Off day	Engineer	Worker	
			days	days	men	men	
Preparation	16.10.1995 - 20.10.1995	5	5		23	38	
Drilling	21.10.1995 - 21.12.1995	62	Drilling	36	11	119	196
			Recovering	15		24	38
Removing	22.12.1995 - 25.12.1995	4	2	2	8	12	
Total		71	58	13	176	284	
Drilling Length				Core recovery of 100m hole			
Length planned	210.00 m	Overburden	13.70m	Depth of hole	Core recovery	Core recovery	
Increase or Decrease in length		Core length	158.60m	(m)	(%)	(%)	
				0.00 - 100.00	85.9	85.9	
				100.00 - 210.00	66.1	75.5	
Length drilled	210.00 m	Core recovery	75.5%				
Working hours	h	%	%	Efficiency of drilling			
Drilling	187	21.6	20.0	Total m / work	210.00m/51days		
Other working	585	67.7	62.5	period (m/day)	(4.12 m / day)		
Recovering	92	10.7	9.8	Total m / work	210.00m/109shifts		
Total	864	100.0	92.3	shift (m/shift)	(1.93 m / shift)		
Assemblage	56		6.0	Drilling length/bit (each sized bit)			
Dismantlement	16		1.7	Bit size	112 mm	91 mm	
Water transportation				Drilled length	72.00	135.00	
Road construction and transportation				Core length		3.00	
Grand total	936		100.0	length	66.40	90.50	
Casing pipe inserted:							
Size	Meterage (m)	Meterage drilling X 100 length (%)	Recovery (%)				
127mm							
108mm	73.7	35.1	0.0				
89mm							

Appendix 16 Record of Drilling Performance (MJVS-3)

Operation	Survey period				Total man day	
	Period	Days	Work day	Off day	Engineer	Worker
			days	days	men	men
Preparation	9.11.1995 - 15.11.1995	7	8	1	12	24
Drilling	16.11.1995 - 23.12.1995	38	Drilling	1	89	146
			Recovering			
Removing	24.12.1995 - 25.12.1995	2	2		8	12
Total		47	45	2	131	218
Drilling Length				Core recovery of 100m hole		
Length planned	206.00 m	Overburden	12.50 m	Depth of hole	Core recovery	Core recovery cumulated
Increase or Decrease in length		Core length	133.75 m	(m)	(%)	(%)
length drilled	206.30 m	Core recovery	64.8%	0.00 - 100.00	71.2	71.2
				100.00 - 206.30	58.8	64.8
Working hours		h	%	%	Efficiency of drilling	
Drilling		179	24.6	22.6	Total m / work period (m/day)	206.30m/37days (5.58 m / day)
Other working		405	55.6	51.1	Total m / work shift (m/shift)	206.30m/91shifts (2.27 m / shift)
Recovering		144	19.8	18.2		
Total		728	100.0	91.9		
Assemblage		48		6.1		
Dismantlement		16		2.0	Drilling length/bit (each sized bit)	
Water transportation					Bit size	112 mm 91 mm 74 mm
Road construction and transportation					Drilled length	16.00 157.40 32.90
Grand total		792		100.0	Core length	13.20 102.75 17.80
Casing pipe inserted						
Size	Meterage (m)	Meterage drilling X 100 length (%)	Recovery (%)			
127mm	44.0	21.3	0.0			
108mm						
89mm	161.0	61.9	0.0			

Appendix 17 Record of Drilling Performance (MJVS-4)

Operation	Survey period				Total man day	
	Period	Days	Work day	Off day	Engineer	Worker
Preparation	18.11.1995 - 28.11.1995	11	11		21	30
Drilling	29.11.1995 - 23.12.1995	25	Drilling	3	54	90
			Recovering		17	28
Removing	24.1.1995 - 25.1.1995	2	2		8	12
Total		38	35	3	100	160
Drilling length	Length planned	160.00m	Overburden	0.00m	Core recovery of 100m hole	
	Increase or Decrease in length		Core length	113.90m	Depth of hole (m)	Core recovery (%)
					0.00 - 100.00	76.8
					100.00 - 160.00	61.8
	Length drilled	160.0m	Core recovery	71.2%		Core recovery cumulated (%)
						76.8
						71.2
Working hours	h	%	%	Efficiency of drilling		
Drilling	110	23.3	19.1	Total m / work period (m/day)	160.00m/22days (7.23 m / day)	
Other working	250	53.0	43.4	Total m / work shift (m/shift)	160.00m/ 59shifts (2.71 m / shift)	
Recovering	112	23.7	19.4	Drilling length/bit (each sized bit)		
Total	472	100.0	81.9	Bit size	112 mm	91 mm
Assemblage	88		15.3	Drilled length	60.00	82.00
Dismantlement	16		2.8	Core length	48.40	56.20
Water transportation						9.30
Road construction and transportation						
Grand total	576		100.0			
Casing pipe inserted		Meterage drilling X 100 length (%)	Recovery (%)			
Size	Meterage (m)					

Appendix 18 Results of Microscopic Observation of Thin sections

Sample Number	Sample Location	Rock Name	Texture	Minerals															
				Fragments							Matrix								
				Qz	Fl	Bi	Cc	Zi	To	Lm	Sh	Qt	Cl	Cc	Qz	Op			
TT101	150 m from E end of MJT-1	Quartz Wacke	Clastic	◎									△						
TT102	202 m from E end of MJT-1	Micrite	Aphanitic														◎		
TT103	Surface of MJVS-1	Black mudstone	Clastic														◎		△
TT201	124 m from E end of MJT-2	Limestone breccia		△							◎						◎		△
TT301	93 m from E end of MJT-3	Fine limestone									◎								
TT302	60 m from E end of MJT-3	Fine limestone									◎								
TT303	400 m west of MJVS-4	Shale	Clastic														◎		
TT304	450 m west of MJVS-4	Fine sandstone	Clastic														◎		△
TT305	300 m southwest of MJVS-2	Mudstone	Clastic														◎		○
TT306	1,250 m south of MJVS-2	Siltstone	Clastic														◎		
TT307	400 m SSW of MJVS-2	Siltstone/mudstone	Clastic														◎		
TT308	550 m south of MJVS-2	Silicified rock																	◎
TT309	550 m south of MJVS-2	Medium sandstone	Clastic														◎		△
TB101	MJVS-1 93.4 m	Siltstone	Clastic														◎		△
TB102	MJVS-1 93.5 m	Sandstone-siltstone	Clastic														◎		△
BT201	MJVS-2 146.4 m	Limestone																	
BT301	MJVS-3 201.5 m	Calcite veinlet																	
BT401	MJVS-4 74.0 m	Limestone																	
BT402	MJVS-4 75.5 m	Limy siltstone	Clastic										○						△

Abbreviation

Qz: Quartz
 Fl: Feldspar
 Bi: Biotite
 Cc: Carbonate

Zi: Zircon
 To: Tourmaline
 Lm: Limestone
 Sh: Shale

Qt: Quartzite
 Cl: Clay minerals
 Op: Opaque minerals

◎: Abundant
 ○: Common
 △: Few
 ·: Rare

Appendix 19 Results of Microscopic Observation of Polished Sections

Sample Number	Sample Location	Description	Ore Mineral							
			Py	As	Cp	Gn	Fo	He	Li	Gr
TP101	94 m from E end of MJT-1	Silicified Vein	.						⊙	⊙
TP102	163 m from E end of MJT-1	Massive Hematite	.							⊙
BP101	MJVS-1 79.0 m	Dissemination	△		△					.
BP102	MJVS-1 82.5 m	Dissemination	△	△						.
BP103	MJVS-1 93.5 m	Dissemination	○		△					.
BP401	MJVS-4 74.0 m	Dissemination	△							.
BP402	MJVS-4 75.5 m	Dissemination	△							.

Abbreviation

Py:Pyrite	Gn:Galena	Li:Limonite	⊙:Abundant
As:Arsenopyrite	Fo:Pyrothite	Gr:Graphite	○:Common
Cp:Chalcopyrite	He:hematite		△:Few
			.:Rare















Appendix 20 Results of X-Ray Diffraction Analysis

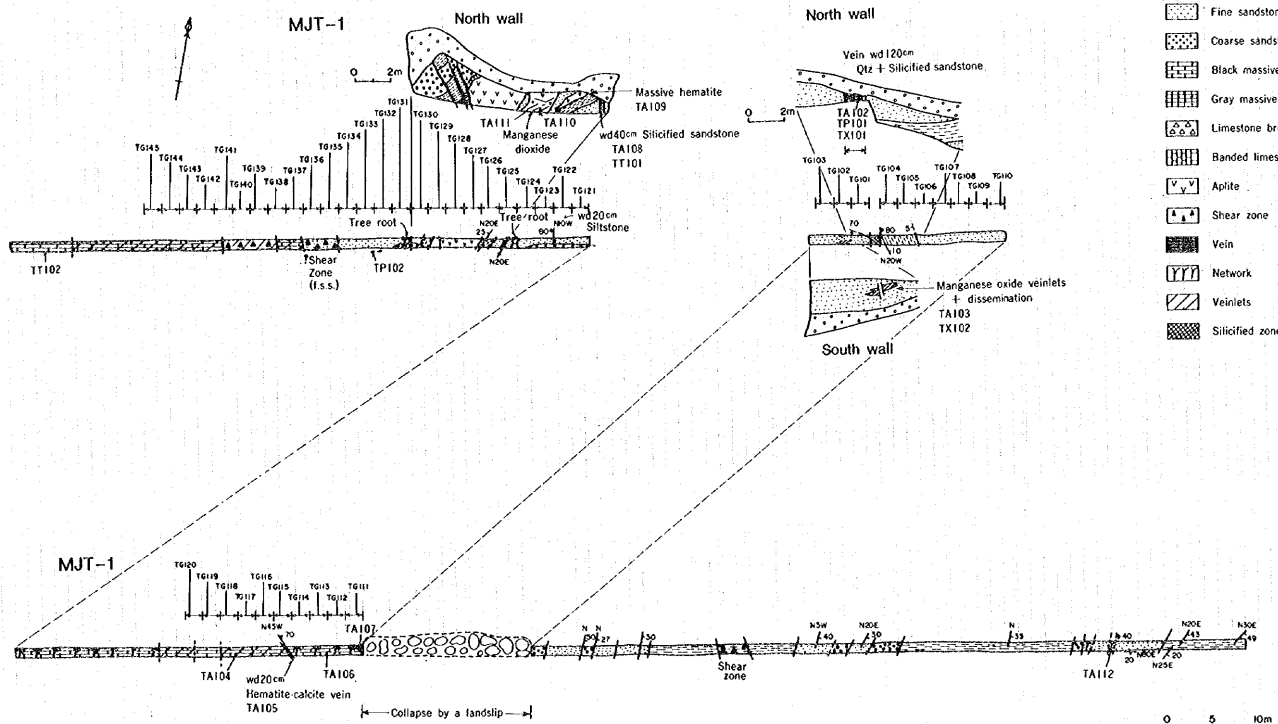
Sample Number	Sample Location	Rock Name	Mineral							
			Qs	Fl	Mi	Ka	Ch	Cc	Do	Go
TR101	94 m from E end of MJT-1	Silicified sandstone	⊙	○	△	△				
TR102	98 m from E end of MJT-1	Altered sandstone	⊙	○	△	△				
TR201	39 m from E end of MJT-2	Oxidized Fe vein						⊙	△	.
TR202	90 m from E end of MJT-2	Oxidized Fe vein						⊙	△	.
TR203	196.5 m from E end of MJT-2	Oxidized Fe vein						⊙	△	.
BX101	MJVS-1, 91.3 m	Clay with Py dissemi	⊙		⊙		○	△	○	
BX102	MJVS-1, 99.5 m	Clay with Py dissemi	○	○	⊙		○	△	△	△
BX103	MJVS-1, 126.7 m	Shear zone	○	△	⊙		△	.	.	△
BX104	MJVS-1, 141.5 m	Sheared calcite	⊙	.	△		.		⊙	.
BX105	MJVS-1, 146.9 m	Clay with Py-Qtz	○	△	⊙		○	○	△	
BX401	MJVS-4, 58.2 m	Clay	○	△	⊙		△			
BX402	MJVS-4, 70.0 m	Phyllite			△		△	⊙	△	

Abbreviations

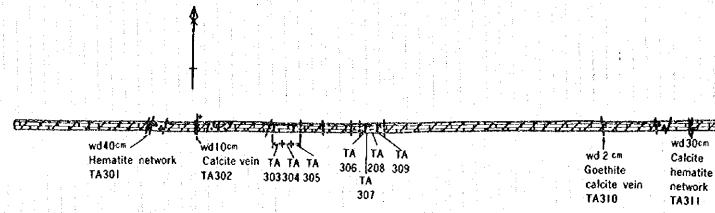
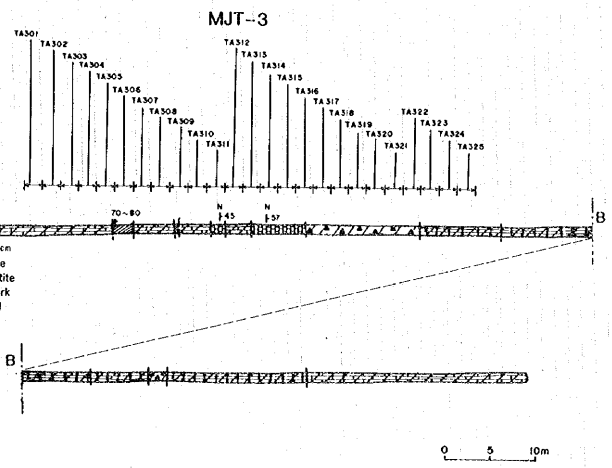
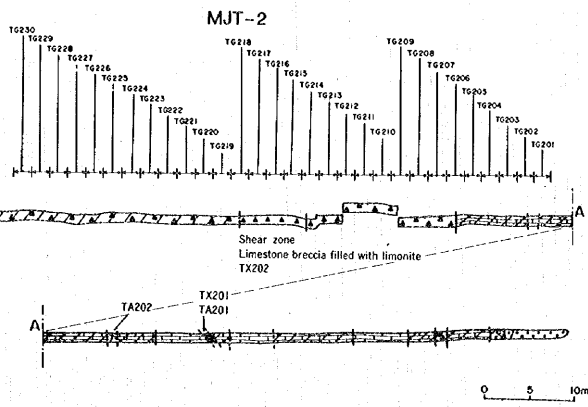
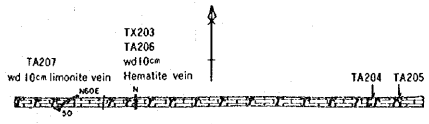
Qs:Quartz	Ch:Chlorite	⊙:Abundant
Fl:Feldspar	Cc:Calcite	○:Common
Mi:Mica	Do:Dolomite	△:few
Ka:Kaoline	Go:Goethite	.:Rare

LEGEND

-  Soil and gravel
-  Siltstone
-  Fine sandstone
-  Coarse sandstone
-  Black massive limestone
-  Gray massive limestone
-  Limestone breccia
-  Banded limestone
-  Aplite
-  Shear zone
-  Vein
-  Network
-  Veinlets
-  Silicified zone

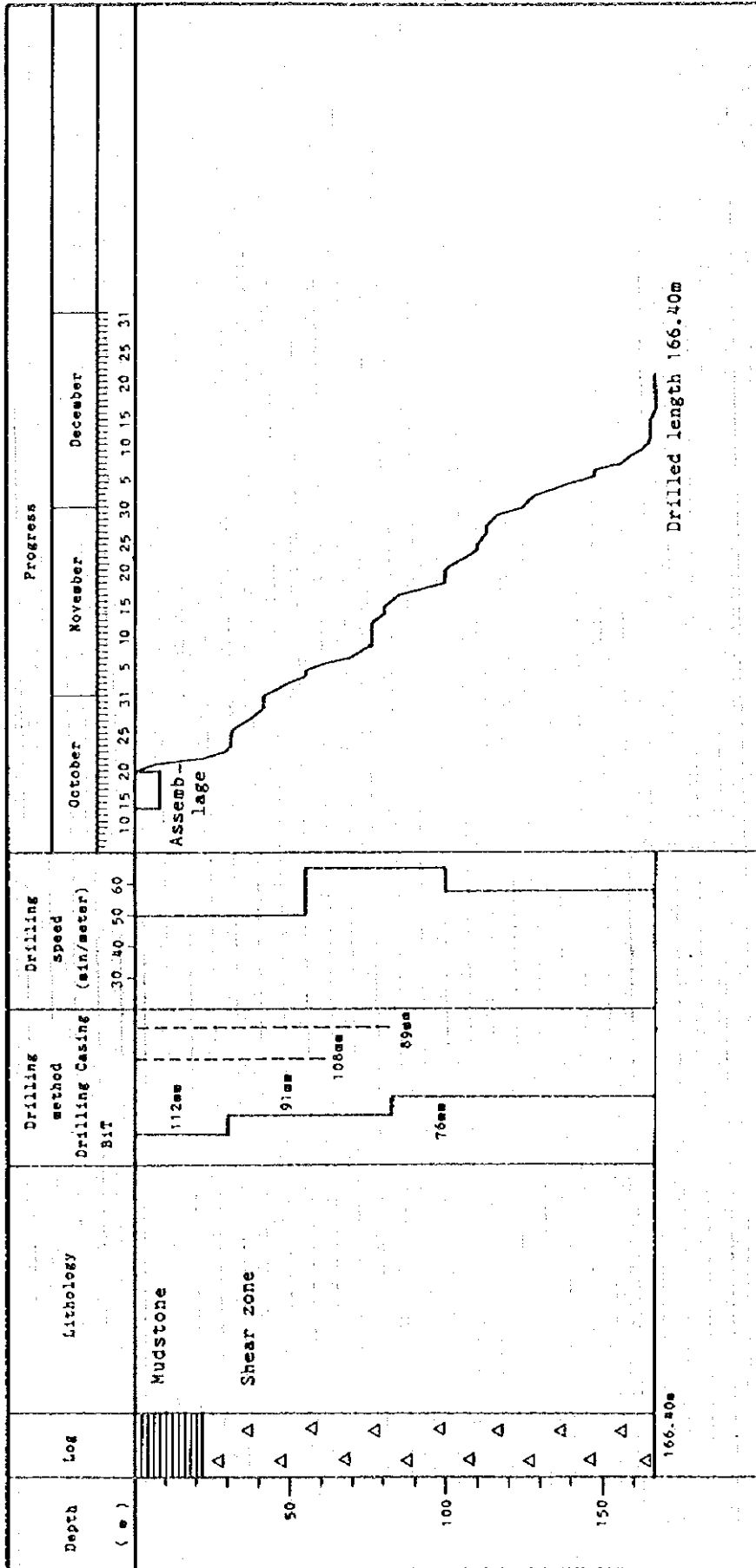


Appendix 21 Geologic Sketch of Trenches (I)

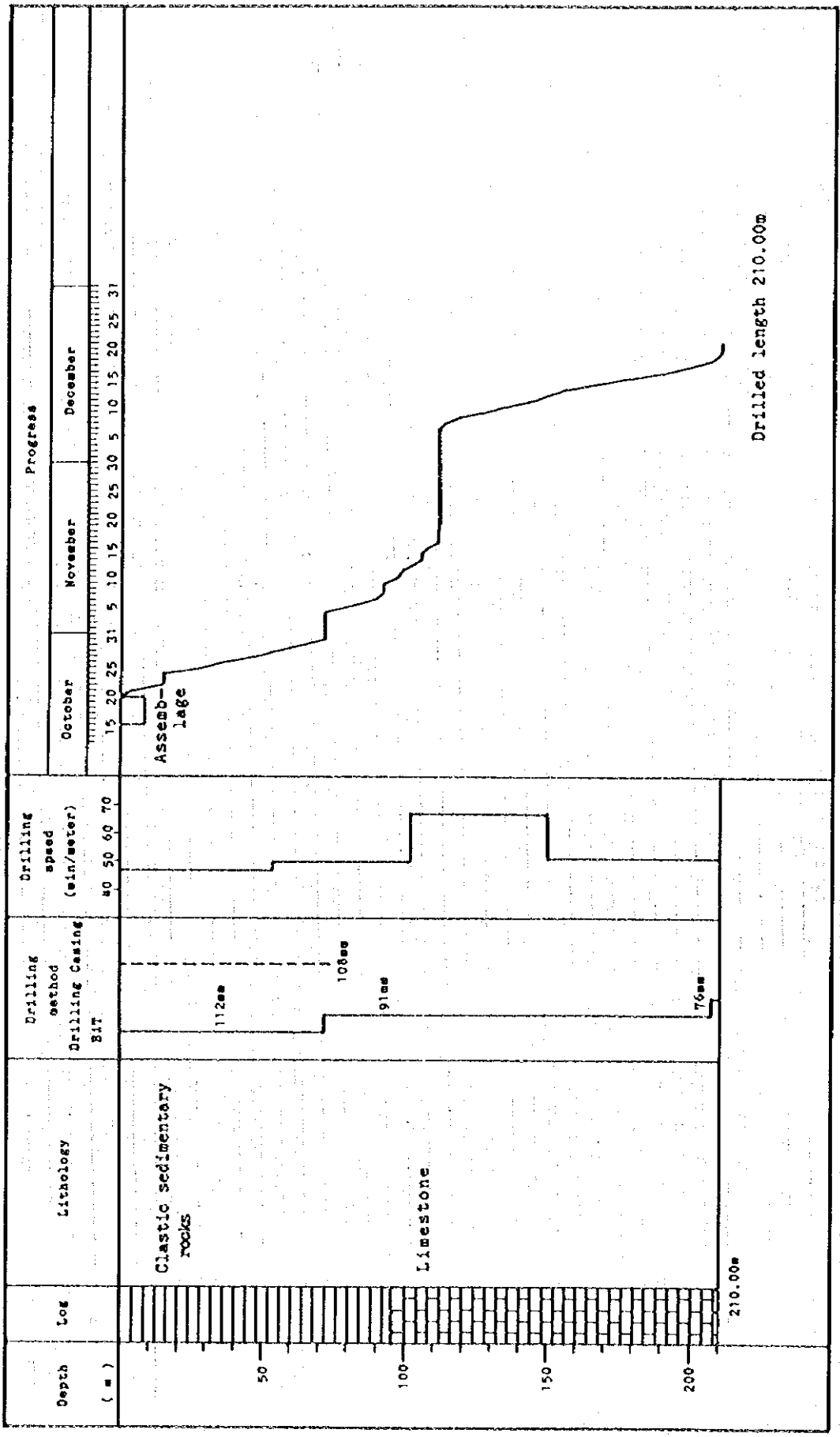


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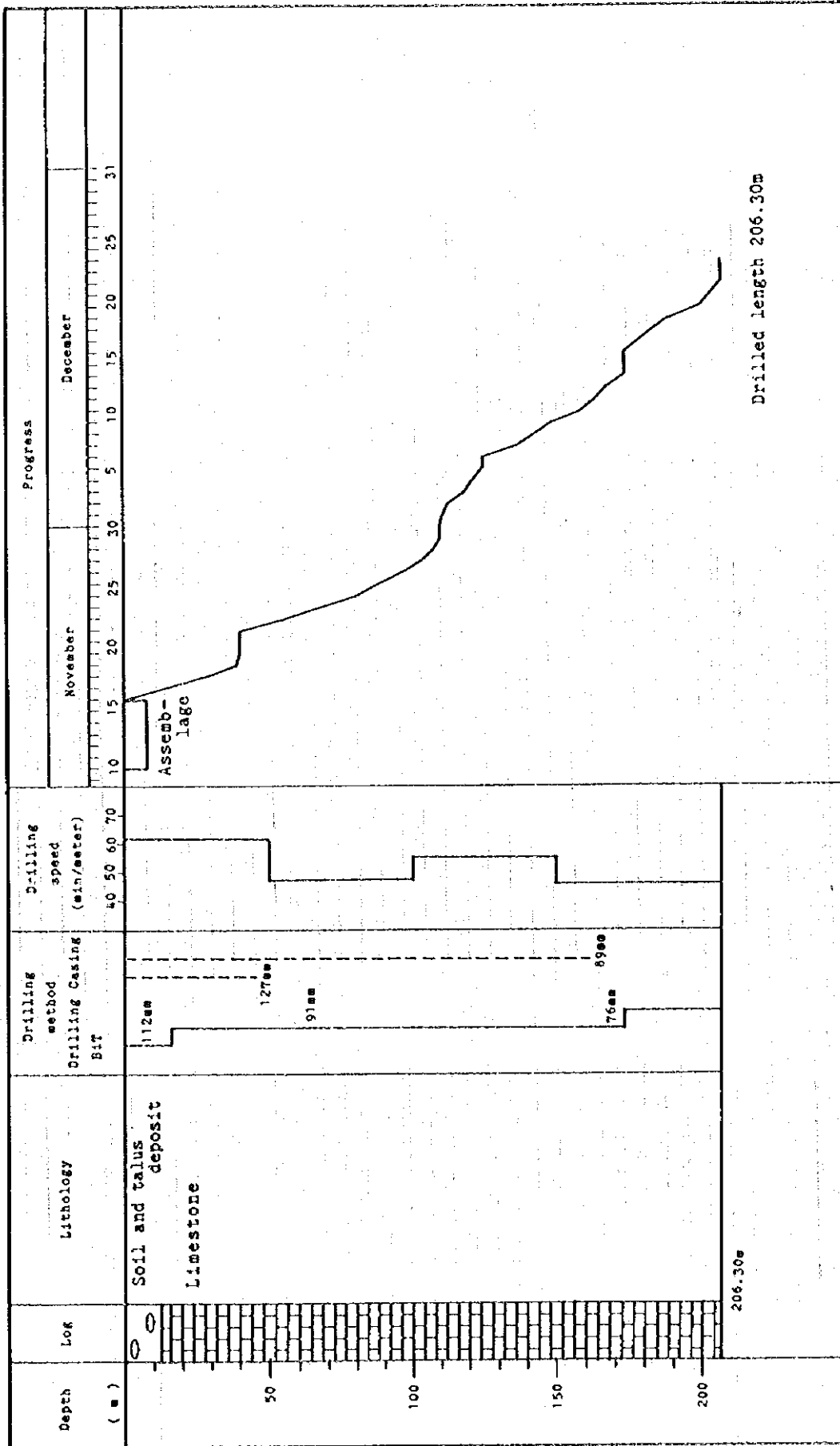
- | | | | |
|--|-------------------------|--|------------------|
| | Soil and gravel | | Banded limestone |
| | Siltstone | | Aplite |
| | Fine sandstone | | Shear zone |
| | Coarse sandstone | | Vein |
| | Black massive limestone | | Network |
| | Gray massive limestone | | Veinlets |
| | Limestone breccia | | Silicified zone |



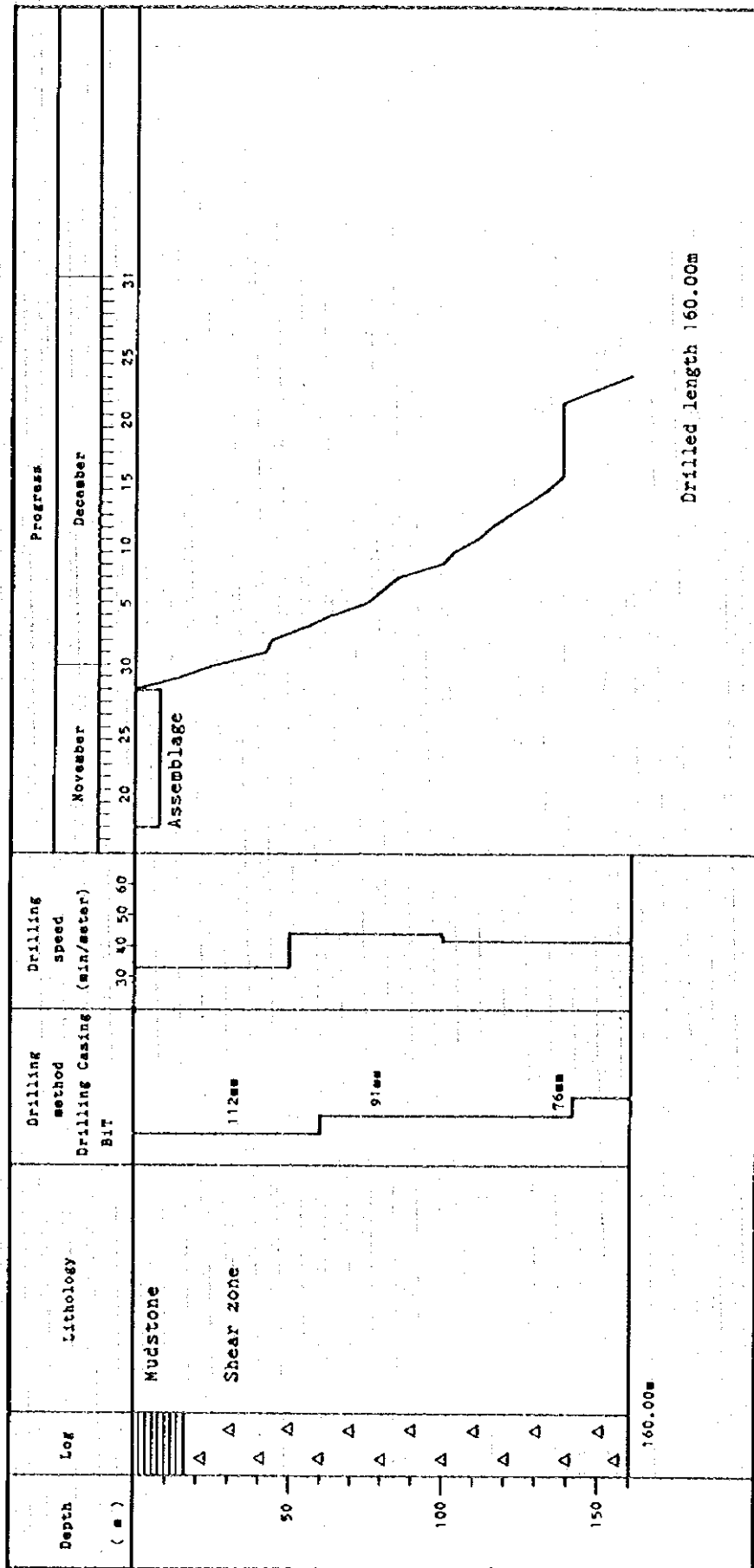
Appendix 22 Chart of Drilling Progress (MJVS-1)



Appendix 23 Chart of Drilling Progress (MJVS-2)



Appendix 24 Chart of Drilling Progress (MJVS-3)



Appendix 25 Chart of Drilling Progress (MJVS-4)

MJVS-1

Direction : S85° E

Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
		0 - 8.0 Pale brown mudstone, weathered	
		8.0	
10		8.0 - 13.2 Black mudstone, soft, partly brown to reddish brown	
		13.2	
		13.2 - 16.5 Reddish brown mudstone	
		16.5	
20		16.5 - 22.0 Black mudstone, soft	
		22.0	
		22.0 - 36.0 Black mudstone, soft, partly sheared	
30			
		36.0	
40		36.0 - 57.3 Sheared black mudstone, partly brown	
50			

Appendix 26 Drill Logs (MJVS-1, 1)

MJVS-1

Direction : S85° E

Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
	▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲	36.0 - 57.3 Sheared black mudstone, partly brown	
	▲ ▲	57.3 57.3 - 57.8	
	▲ ▲	57.8 Sheared brown fine sandstone	
	▲ ▲	57.8 - 60.2	
60	▲ ▲	60.2 Sheared pale gray siltstone	
	▲ ▲	60.5 60.2 - 60.5	
	▲ ▲	Sheared brown fine sandstone	
	▲ ▲		
	▲ ▲		
	▲ ▲		
	▲ ▲		
70	▲ ▲	60.5 - 76.0	
	▲ ▲	Sheared-argillized	
	▲ ▲	black mudstone,	
	▲ ▲	matrix is gray clay	
	▲ ▲		
	▲ ▲		
	▲ ▲		
	▲ ▲		
	▲ ▲		
80	▲ ▲	76.0	
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90	~ ~	89.0	
	~ ~		
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	~ ~		
100	▲ ▲	93.0	
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MJVS-1

Direction : S85° E

Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
	△		
	△ △		
	△ △		
	△ △		
	△ △		
	△ △		
	△ △		
	△ △	156.0	
	△ △	Sheared black limestone	
	△ △		
	△ △	158.0	
	△ △	Shear zone with fragments of black mudstone and black fine sandstone	
	△ △		
160	△ △	Both contain weakly disseminated pyrite.	
	△ △		
	△ △	162.5	
	△ △	Shear zone with fragments of black mudstone and quartz sandstone, filled with dark gray clay	
	△ △		
166.40	△ △		

MJVS-2

Direction : N85° W

Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
0 - 2.0		Soil	
2.0		2.0 - 5.0 Pale brown fine sandstone, weathered	
5.0		5.0 - 15.0 Pale brown to pale gray micaceous fine sandstone	
10		15.0 Gray siltstone, soft	
15.0		16.2 Pale brown fine sandstone, soft	
16.2		17.8 - 18.8 Limonite disseminated	
18.8		18.8 Gray siltstone, soft	
19.5		19.5 Gray fine sandstone, weathered	
20		20.6 Brown coarse sandstone, loose	
20.6		22.6 Pale brown to pale gray fine sandstone, weathered	
22.6		24.7 Gray siltstone, soft	
24.7		26.0 Gray fine sandstone	24.7 - 26.0 Hematite network in part
26.0		28.0 Brown coarse sandstone	
28.0		28.9 Gray siltstone, soft	
28.9		30.5 Gray fine sandstone, soft	
30		33.0 Gray coarse sandstone, soft	
30.5		35.0 Gray fine sandstone, soft	
33.0		36.0 Brown fine sandstone to siltstone	
35.0		39.0 - 39.2 Weakly silicified, limonite veinlets	
36.0		40.4 41.0 - 41.4 Weakly silicified, limonite veinlets	
40		43.5 Limonite vein, width 2 cm	
40.4		49.6 - 50.8 Pale brown medium sandstone	
49.6		49.9 Limonite vein, width 1 cm	
50		49.6	

Appendix 27 Drill Logs (MJVS-2, 1)

MJVS-2

Direction : N85°W







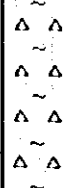

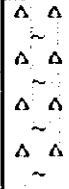




Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
50.8		Brown fine sandstone	
52.8		Shear zone	52.8 - 54.0 Limonite veinlets
54.0		Shear zone with fragments of weakly silicified mudstone	54.0 - 56.8 Limonite network in part
56.8		Shear zone with fragments of fine sandstone and mudstone	
57.8			
58.2		Pale brown coarse sandstone	
60		Gray fine sandstone, partly weathered	
63.6		Brown siltstone, strongly weathered	
65.0			
70		Shear zone with fragments of fine sandstone, siltstone and coarse sandstone	
72.0			
80		Sheared gray siltstone	72.0 - 83.3 Limonite veinlets in part
83.3		Sheared fine sandstone, brown	
84.5		Silicified siltstone, sheared	
84.9		Sheared siltstone	
86.1		Sheared fine sandstone, gray to brown	
89.0		Pale brown to brown fine sandstone, sheared?	
91.8		Sheared siltstone, matrix hematite	91.8 - 95.3 Hematite network
93.2		Gray fine sandstone	
95.3		Sheared limestone, matrix clay and hematite	
98.5		Sheared limestone, matrix calcite	
100			

MJVS-2

Direction : N85° W













































Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
			
102.0			
110		Black massive limestone	105.4 - 112.0 Calcite-hematite veinlets
112.0		Sheared limestone with reddish brown to gray clay	
116.4		Black massive limestone	
118.0		Sheared limestone with reddish brown clay	
120			
120.5			
126.5		Sheared limestone with gray clay, partly limonite or hematite stained	
128.0		Black massive limestone with calcite and calcite-hematite veinlets	
130		Sheared limestone filled with gray clay	
134.0			
135.0		Black massive limestone	
138.8		Sheared black limestone, partly containing brown clay	
140			
150		Black massive limestone	138.8 - 150.0 Hematite veinlets

MJVS-2

Direction : N85°W

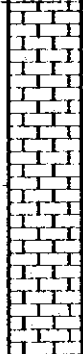
Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
150.0		Limestone breccia	
152.0		Sheared limestone filled with reddish brown clay	
153.7			
160		Limestone breccia	150.0 - 172.0 Limonite veinlets
			
			
			
			
			
			
			
			
			
170			
			
			
			
			
			
			
			
			
			
180		Sheared limestone filled with reddish brown clay	
			
			
			
			
			
			
			
			
			
189.0		Pale gray massive limestone, partly limestone breccia	189.0 - 210.0 Limonite veinlets
			
			
			
			
			
			
			
			
			
190			
200			

MJVS-2

Direction : N85° W

Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
210		Pale gray massive limestone, partly limestone breccia	

MJVS-3

Direction : N70°W

Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
		0 - 12.5 Soil and gravel	
10			
12.5		Black massive limestone	12.5 - 14.3 Hematite veinlets
14.3		Limestone breccia	
20			
20.7			17.3 - 17.7 Hematite-goethite vein
23.3			23.3 Hematite sheared vein
26.0		Black massive limestone	26.0 - 26.5 Hematite network
30			
34.5		Cave	34.5 - 35.0 Hematite-goethite veinlets
40		Cave	
50			

Appendix 28 Drill Logs (MJVS-3, 1)

MJVS-3

Direction : N70° W

Inclination : -70°





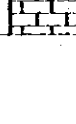
Depth (m)	Log	Lithology	Mineralization
		Black massive limestone	
60			61.0 - 100.0 Limonite veinlets
	63.5	Sheared limestone filled with limonite	
	65.0		
		Black massive limestone	
	67.6	Sheared limestone filled with reddish brown clay	
70	70.1		70.0 - 70.1 Goethite-hematite vein contained sheared limestone
		Black massive limestone	
80			
	83.4	Sheared limestone	
	85.3	Black massive limestone	
	87.5	Sheared limestone filled with limonite	
	88.2		
90		Black massive limestone	
	91.0	Sheared limestone	
	92.5		
		Limestone breccia	
	97.0	Cave	
100	99.0		

Appendix 28 Drill Logs (MJVS-3, 2)

MJVS-3

Direction : N70° W

Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
		Black massive limestone	
	△	153.7 Sheared black limestone	
	△ △	155.2	
160			
170		Black massive limestone	
180			
			185.8 - 190.2 Calcite-limonite veintets
190	190.1 190.8 191.7 192.5 193.6 194.2	Cave Cave Cave	
200			

MJVS-3

Direction : N70°W

Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
		200.0 Cave	
		201.4 Black massive limestone	
		202.6 Cave	
		204.2 Black massive limestone	
206.30			

MJVS-4

Direction : S85° E

Inclination : -70°

Depth (m)	Log	Lithology	Mineralization
160	Δ Δ ~ Δ Δ ~ Δ Δ ~ Δ Δ ~ Δ Δ ~ Δ Δ ~ Δ Δ	Sheared-argillized zone with fragments of black mudstone and fine sandstone	

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