Appendix 1-28 Borehole Deviations of MJSU-1 to MJSU-8

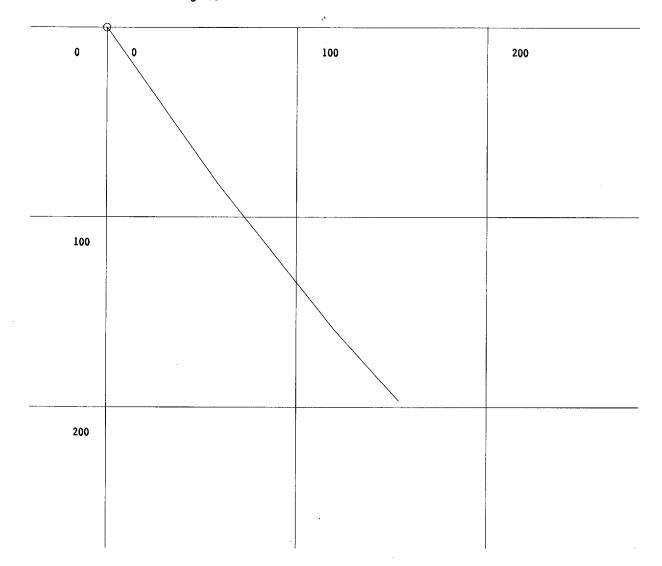
e.

,

PLAN at 1/2000 grid 100m interval

	155°		
-100	0	100	200
			245°
0			
v			

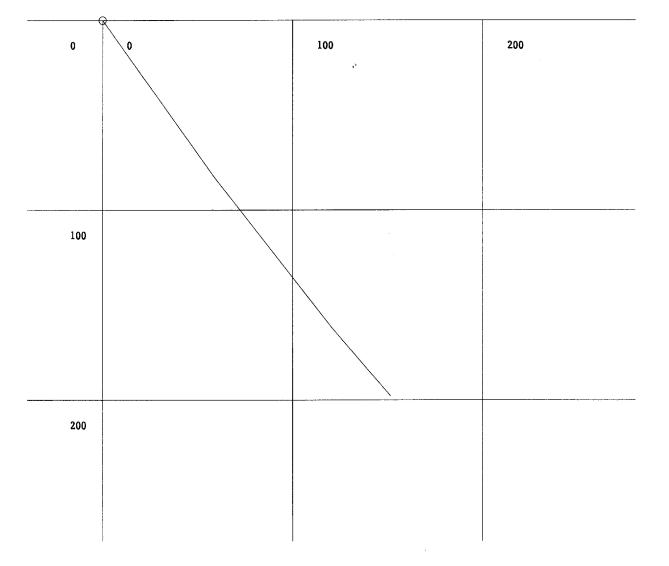
SECTION Looking 155°



-100	155° 0	100	200
	•		245°
0			

100

SECTION Looking 155°

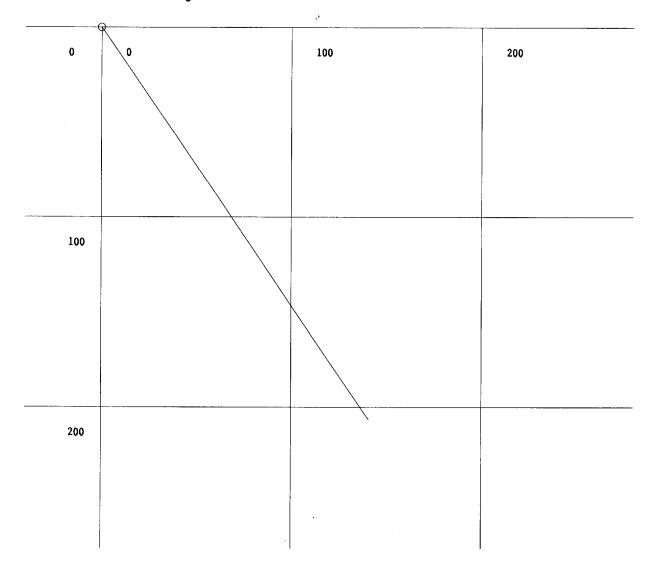


PLAN at 1/2000 grid 100m interval

MJSU-3

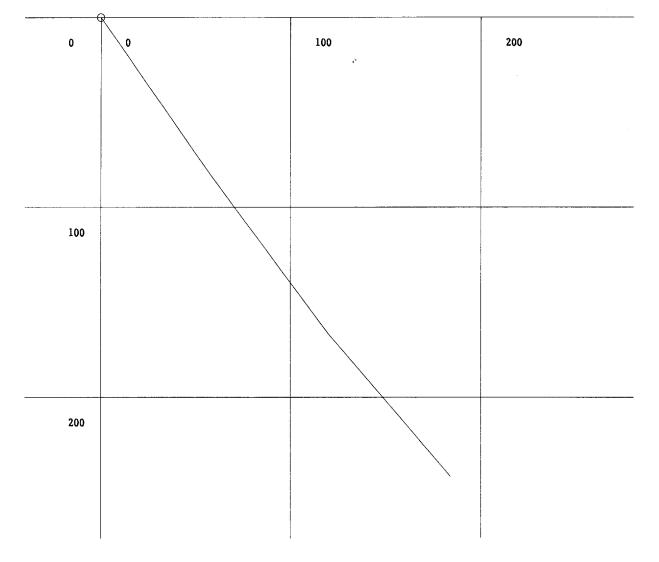
	135°			
-100	0	100	200	
				225°
	•			
0				





-100	260° 0	100	200
			170°
	- 0	· · · · · · · · · · · · · · · · · · ·	
0			
			L

SECTION Looking 170°

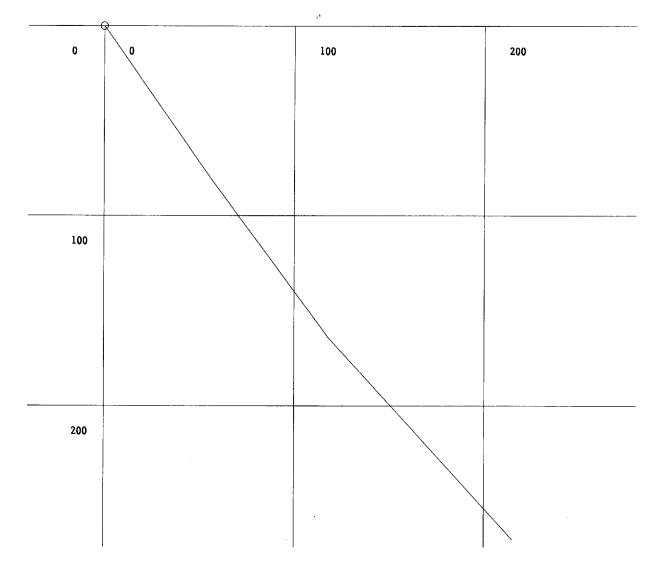


PLAN at 1/2000 grid 100m interval

MJSU-5

-100	170° 0	100	200
			260°
0			

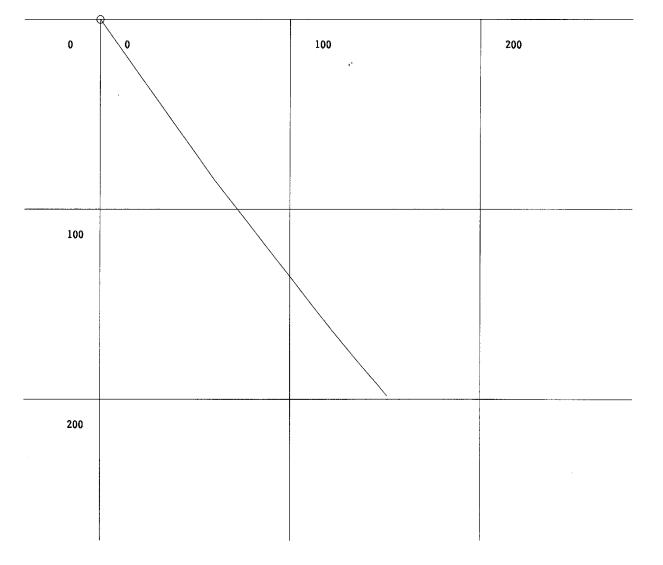
SECTION Looking 170°

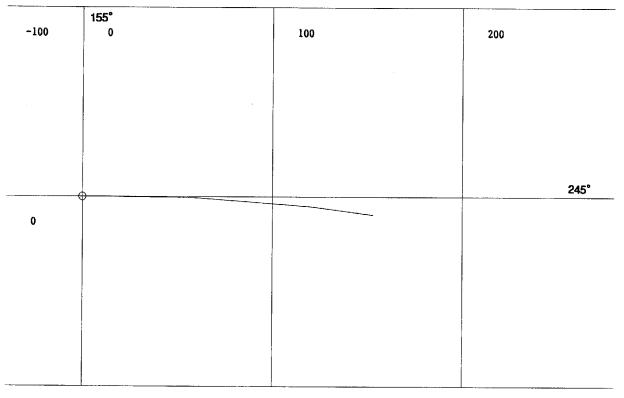


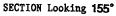
	155°		
-100	0	100	200
			245°
	- P		
0			
		<u></u>	

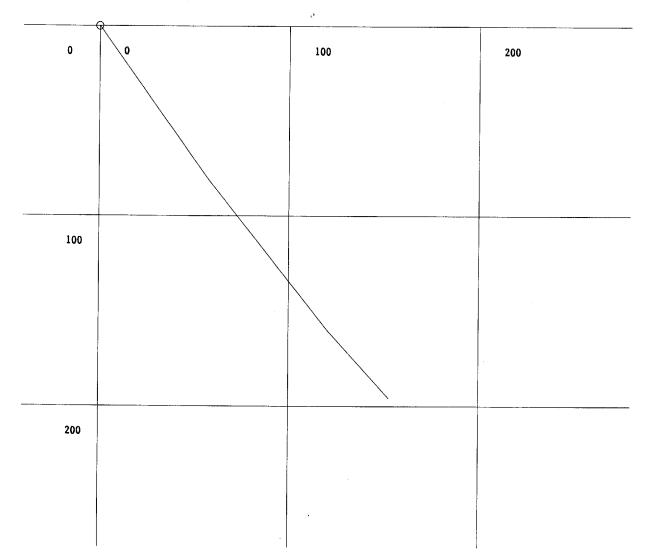
100

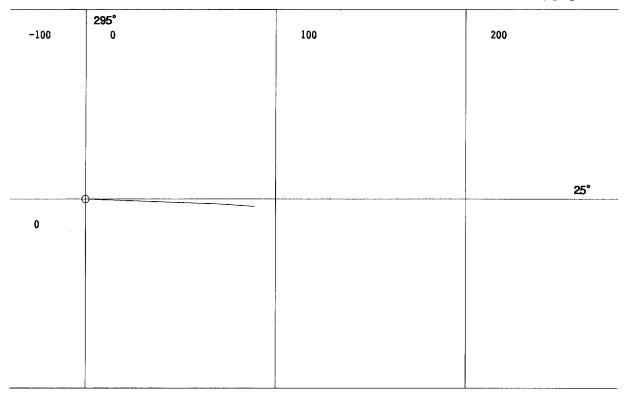
SECTION Looking 155°





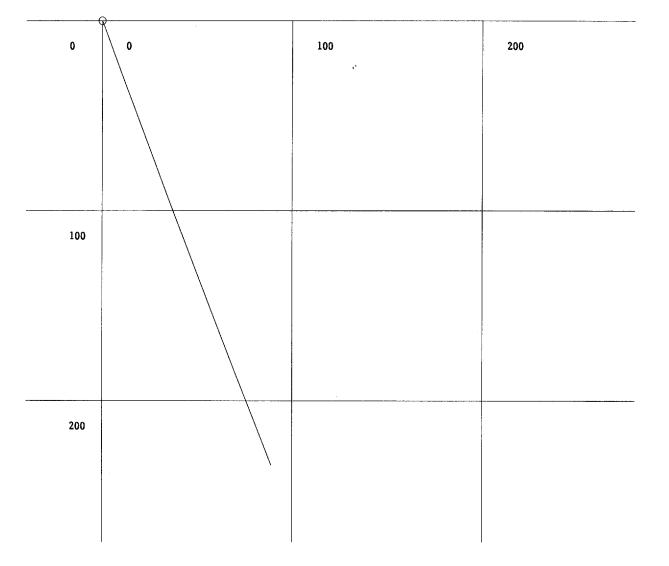






100

SECTION Looking 295°



Drill Hole No.	Depth	Direction	Inclination
	0.0	245.0	-55.0
	102.0	245.5	-54.0
MJSU-1	200.0	242.0	-49.0
	250.0	247.0	-46.0
	0.0	245.0	-55.0
	102.0	245.0	-54.0
MJSU-2	202.0	247.0	-50.0
	249.5	249.0	-49.0
	0.0	225.0	-55.0
	105.0	224.0	-56.0
MJSU-3	200.0	226.0	-56.0
	250.0	226.0	-55.0
	0.0	260.0	-55.0
MIGUA	102.0	262.0	-55.0
MJSU-4	205.0	259.0	-52.0
	304.0	258.5	-47.0
	0.0	260.0	- 55.0
MJSU-5	102.0	264.0	-55.0
1000-0	202.0	260.0	-52.0
	346.0	258.0	-43.0
	0.0	245.0	-55.0
MJSU-6	104.0	245.0	-54.0
1000-0	205.0	245.0	-50.0
	249.5	245.0	-50.0
	0.0	245.0	-55.0
MJSU-7	100.0	246.0	-54.0
11030-7	200.0	252.0	-49.0
	249.0	253.0	-46.0
	0.0	25.0	- 70.0
MJSU-8	105.0	29.0	-69.0
1910-0	200.0	29.0	-69.0
	250.0	29.0	-68.0

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Borehole Deviations

Drill Hole No.	Sample No.		pth n)	Width (m)	Au (g/t)	Ag (g∕t)	Си (%)	Zn (%)	Pb (%)	S (%)
MJSU-1	1	6.30	7.95	1.65	<0.05	0.6	0.00	0.00	0.00	0.14
	2	13.50	14.55	1.05	<0.05	0.6	0.00	0.00	0.00	< 0.05
	3	14.55	15.00	0.45	<0.05	0.7	0.00	0.01	0.00	<0.05
	4	15.00	15.75	0.75	<0.05	0.6	0.00	0.00	0.00	< 0.05
	5	15.75	17.40	1.65	<0.05	0.7	0.01	0.01	0.00	< 0.05
	6	17.40	18.65	1.25	<0.05	0.6	0.00	0.01	0.00	< 0.05
	7	23.05	24.20	1.15	<0.05	0.5	0.00	0.01	0.00	0.32
	8	24.20	25.75	1.55	<0.05	0.6	0.00	0.01	0.00	1.05
	9	25,75	26.65	0.90	<0.05	0.5	0.00	0.01	0.00	0.43
	10	26.65	27.30	0.65	<0.05	0.6	0.01	0.01	0.00	1.45
	11	31.00	32.75	1.75	<0.05	0.6	0.00	0.00	0.00	1.95
	12	32.75	33.75	1.00	<0.05	0.6	0.00	0.01	0.00	1.40
	13	46.90	47.90	1.00	<0.05	1.0	0.01	0.01	0.00	<0.05
	14	47.90	48.90	1.00	<0.05	1.2	0.04	0.01	0.00	1.50
	15	48.90	49.90	1.00	<0.05	1.1	0.01	0.01	0.00	0.26
	16	55.85	56.85	1.00	<0.05	0.7	0.00	0.01	0.00	0.40
	17	91.05	92.20	1.15	<0.05	2.7	0.01	0.51	0.01	10.50
	18	96.35	96.50	0.15	<0.05	13.2	2.19	0.01	0.01	5.92
	19	96.50	97,50	1.00	<0.05	0.9	0.02	0.01	0.00	3.10
	20	97.50	98.50	1.00	<0.05	1.3	0.01	0.01	0.00	5.20
	21	98.50	99.50	1.00	<0.05	1.5	0.02	0.01	0.00	3.80
	22	99.50	100.50	1.00	<0.05	1.1	0.03	0.01	0.00	1.26
	23	100.50	101.50	1.00	<0.05	1.1	0.06	0.01	0.00	3.10
	24	101.50	102.50	1.00	<0.05	1.0	0.02	0.00	0.00	4.30
	25	102.50	103.50	1.00	<0.05	0.7	0.03	0.00	0.00	2.80
	26	103.50	104.20	0.70	<0.05	1.0	0.11	0.00	0.00	7.05
	27	120.85	121.50	0.65	<0.05	2.5	0.04	0.01	0.01	1.51
	28	122.50	123.00	0.50	<0.05	9.4	0.47	0.17	0.05	2.00
	29	123.00	123.10	0.10	<0.05	5.8	0.70	0.76	0.06	1.94
	30	150.70	151.60	0.90	<0.05	2.1	0.02	0.01	0.01	1.43
	31	151.60	152.30	0.70	<0.05	1.0	0.00	0.01	0.00	1.57
	32	152.70	153.40	0.70	<0.05	3.4	0.02	0.02	0.01	2.80
	33	153.40	154.10	0.70	0.05	8.3	0.09	0.26	0.11	4.42
	34	154.10	155.30	1.20	<0.05	0.7	0.00	0.01	0.00	3.15
	35	208.90	209.05	0.15	<0.05	4.1	0.37	0.16	0.01	1.30
ļ	36	212.75	212.85	0.10	0.33	213.0	0.90	2.98	1.09	7.70
	37	215.45	215.60	0.15	0.48	150.0	0.95	1.91	0.48	4.66
MJSU-2	1	41,45	41.85	0.40	<0.05	<0.5	0.01	0.04	0.00	0.48
	2	41.85	43.35	1.50	<0.05	<0.5	0.08	0.03	0.00	1.72
	3	43.35	43.60	0.25	0.05	1.3	0.36	0.04	0.00	1.00
	4	64.20	64.40	0.20	<0.05	4.6	0.16	0.06	0.00	0,95
ļ	5	106.25	107.25	1.00	<0.05	3.0	0.00	0.02	0.00	10.67
ļ	6	107.25	108.25	1.00	<0.05	1.3	0.01	0.04	0.00	5.70
	7	108.25	109.05	0.80	<0.05	1.0	0.00	0.02	0.00	4.04
	8	121.15	121.60	0.45	0.12	14.9	1.70	0.18	0.02	18.05
	9	121.60	122.30	0.70	0.14	18.6	0.17	0.03	0.01	1.32
	10	122.30	122.90	0.60	0.28	10.7	2.71	0.08	0.00	11.04
	11	122.90	123.90	1.00	0.12	7.0	0.07	0.02	0.00	3.95
	12	123.90	124,25	0.35	0.06	3.4	0.09	0.08	0.01	1.75
	13	124.25	124.75	0.50	0.65	55.4	1.66	9.81	0.45	14.00
	14	124.75	125.10	0.35	1.00	63.1	1.03	5.90	1.30	7.96
	15	125.10	125.40	0.30	1.40	44.9	0.99	6.81	0.68	10.34
Γ	16	125.40	126.20	0.80	0.10	3.9	0.03	1.21	0.16	3.34
	17	126.20	127.15	0.95	<0.05	2.3	0.01	0.04	0.00	2.15
Γ	18	127.15	128.10	0.95	<0.05	1.9	0.01	0.02	0.00	1.08
Γ	19	128.10	128.20	0.10	0.30	12.6	0.96	0.19	0.00	23.30

Appendix 1-29 Results of Ore Assay (Core Samples)

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Appendix 1-29 Results of Ore Assay (Core Samples)

Drill Hole	Sample	Dep	oth	Width		Ag	Cu	Zn	Pb	S
No.	No.	(m	<u>ı) </u>	(m)	(g/t)	(g/t)	(%)	(%)	(%)	(%)
MJSU-2	20	128,20	129.05	0.85	<0.05	0.8	0.00	0.03	0.00	0.65
	21	129.05	130.10	1.05	<0.05	0.5	0.01	0.04	0.00	0.20
	22	130.10	130.40	0.30	0.56	13.3	0.89	3.65	0.02	11.75
	23	130.40	130.50	0.10	0.74	1.5	0.23	0.03	0.00	2.00
	24	130.50	131.15	0.65	0.67	28.8	0.68	9.55	0.03	21.70
	25	131.15	132,10	0.95	0.13	37.6	1.46	24.68	0.09	28.50
	26	132.10	133.10	1.00	0.21	21.7	1.78	4.41	0.57	6.40
	27	133.10	133.90	0.80	0.21	9.7	1.23	3.95	0.01	7.10
	28	133.90	134.15	0.25	< 0.05	7.6	0.48	1.97	0.02	23.00
	29	134.15	134.90	0.75	0.18	9.9	0.29	4.13	0.62	3.25
	30	134.90	136.20	1.30	<0.05	12.5	0.67	0.81	0.00	26.55
	31	136.20	137.20	1.00	< 0.05	2.8	0.20	0.10 0.24	0.00	<u>1.20</u> 23.60
	32	137.20	137.40	0.20	0.70	51.6	4.79		0.01	1.20
	33	137.40	138.00	0.60	<0.05 0.14	2.8 12.9	0.20 0.50	0.09 0.22	0.00	11.25
	34 35	138.00 138.90	138.90 139.10	0.90	0.14	8.0	0.30	0.22	0.00	4.65
	36	139.10	140.30	1.20	0.08	11.1	1.17	0.12	0.00	5.50
	37	140.30	141.15	0.85	0.35	6.1	0.32	0.55	0.00	13.83
	38	141.15	141.55	0.40	5.83	15.8	4.58	0.08	0.00	33.83
	39	141.55	142.25	0.70	<0.05	4.5	1.05	0.00	0.00	18.70
	40	221.85	222.00	0.15	<0.05	9.0	0.03	0.71	0.00	3.90
	41	224.05	224.15	0.10	<0.05	1.5	0.10	0.51	0.00	0.85
	42	229.05	229.20	0.15	<0.05	5.3	0.02	0.46	0.00	2.50
MJSU-3	1	50.00	51.90	1.90	<0.05	1.6	0.00	0.01	0.00	1.30
	2	51.90	53.30	1.40	<0.05	1.0	0.01	0.02	0.00	1.53
	3	55.90	56,15	0.25	<0.05	1.7	0.07	0.05	0.00	5.75
	4	56.15	57.10	0.95	0.06	1.4	0.02	0.02	0.00	2.50
	5	57.10	59.05	1.95	<0.05	0.8	0.01	0.01	0.00	2.65
	6	59.05	59.90	0.85	<0.05	1.2	0.01	0.01	0.00	1.40
	7	68.85	71.85	3.00	<0.05	1.3	0.02	0.01	0.00	2.55
	8	71.85	72.60	0.75	<0.05	⁻ 1.3	0.02	0.01	0.00	1.70
	9	81.55	83,55	2.00	<0.05	0.9	0.02	0.02	0.00	2.20
	10	83.55	85.60	2.05	<0.05	1.1	0.04	0.02	0.00	2.60
	11	95.65	97.75	2.10	<0.05	1.3	0.19	0.09	0.00	7.00
	12	104.60	106.20	1.60	0.09	0.8	0.01	0.01	0.00	2.00
	13	106.20	107.80	1.60	0.07	1.0	0.01	0.02	0.00	1.70
	14	107.80	110.00	2.20	<0.05	1.0	0.02	0.01	0.00	1.80
	15	114.80	116.25	1.45	<0.05	1.1	0.01	0.01	0.00	2.10
	16	116.25	117.70	1.45	<0.05	1.1	0.00	0.01	0.00	0.35
	17	117.70	119.20	1.50	<0.05	1.0	0.02	0.00	0.00	1.50
	18	119.20	120.75	1.55	<0.05	0.6	0.03	0.00	0.00	1.25
	19	153.15	154.50	1.35	<0.05	0.5	0.01	0.01	0.00	2,10
	20	154.50	157.40	2.90	<0.05	0.6	0.01	0.01	0.00	9.50
	21	157.40	159.00	1.60	<0.05	2.8	0.37	0.02	0.00	2.80
	22	159.00	160.55	1.55	<0.05	2.3	0.19	0.01	0.00	0.60
	23	160.55	162.85	2.30	<0.05	0.9	0.09	0.01	0.00	1.30
	24	162.85 164.45	164.45	1.60	<0.05	<u>1.1</u> 1.5	0.01 0.09	0.01 0.01	0.00 0.00	0.90 1.70
	25 26		164.75 178.50	0.30 0.90	<0.05 <0.05	1.5	0.09	0.01	0.00	1.50
	20	177.60 188.20	188.75	0.90	<0.05	3.9	1.57	0.02	0.00	8.45
		188.20	189.45	0.55	<0.05	<u>3.9</u> 0.9	0.02	0.02	0.00	0.40
	28 29	189.45	192.15	2.70	< 0.05	1.1	0.02	0.01	0.00	1.20
	30	204.25	206.70	2.70	<0.05	1.8	0.03	0.01	0.00	<0.05
	31	204.25	208.60	1.90	<0.05	1.0	0.23	0.01	0.00	<0.05
	32	208.60	210.60	2.00	<0.05	0.9	0.03	0.01	0.00	<0.05
			E10.00			V.7	0.00	0.01	0.001	VU.U3

Appendix 1-29	Results of Ore Assay (Core Samples)	

Drill Hole	Sample	De	pth	Width	Au	Ag	Cu	Zn	Pb	s
No.	No.		n)	(m)	(g/t)	(g/t)	(%)	(%)	(%)	(%)
MJSU-3	34	212.45	214.70	2.25	<0.05	1.0	0.09	0.01	0.00	1.20
	35	214.70	215.05	0.35	< 0.05	13.3	5.05	0.06	0.00	5.10
	36	215.05	217.05	2.00	<0.05	0.8	0.01	0.00	0.00	0.26
	37	217.05	218.90	1.85	<0.05	1.2	0.08	0.01	0.00	1.60
	38	218.90	220.10	1.20	<0.05	0.8	0.02	0.01	0.00	8.45
	39	220.10	220.90	0.80	< 0.05	6.6	2.48	0.03	0.00	3.00
	40	220.90	223.50	2.60	<0.05	0.7	0.03	0.01	0.00	1.25
	41	223.50	226.30	2.80	<0.05	0.8	0.01	0.00	0.00	4.00
	42	241.85	243.25	1.40	< 0.05	<0.5	0.06	0.01	0.00	4.38
MJSU-4	1	31.50	32.50	1.00	<0.05	<0.5	0.00	0.01	0.00	0.73
	2	32.50	33.30	0.80	<0.05	<0.5	0.01	0.01	0.00	0.40
	3	33.30	34.20	0.90	<0.05	<0.5	0.00	0.01	0.00	0.64
	4	55.30	56.30	1.00	<0.05	<0.5	0.02	0.00	0.00	0.47
	5	56.30	57.70	1.40	<0.05	<0.5	0.01	0.00	0.00	0.48
	6	60.25	61.25	1.00	<0.05	<0.5	0.00	0.00	0.00	0.08
	7	61.25	62.25	1.00	<0.05	<0.5	0.00	0.00	0.00	0.18
	8	62.25	63.15	0.90	<0.05	<0.5	0.05	0.01	0.00	1.20
	9	63.15	64.30	1.15	<0.05	<0.5	0.01	0.01	0.00	0.65
	10	64.30	65.15	0.85	<0.05	<0.5	0.02	0.01	0.00	3.15
	11	65.15	66.15	1.00	<0.05	<0.5	0.02	0.01	0.00	1.40
	12	66.15	67.20	1.05	<0.05	<0.5	0.02	0.00	0.00	0.25
	13	67.20	67.60	0.40	<0.05	<0.5	0.01	0.01	0.00	0.43
	14 15	67.60 111.40	67.85	0.25	0.06	<0.5	0.01	0.00	0.00	0.22
	16	133.15	<u>111.65</u> 133.30	0.25 0.15	0.07	12.0	1.82	0.10	0.00	5.40
	17	140.50	141.00	0.15	0.07 <0.05	<u>1.8</u> 15.1	0,24	0.02	0.00	13.80
	18	141.00	142.00	1.00	0.12	20.8	1.31 7.65	0.05 0.02	0.00 0.00	3.30 5.66
	19	142.00	143.10	1.10	<0.05	0.5	0.10	0.02	0.00	0.53
	20	143.10	143.40	0.30	0.28	24.7	10.40	0.02	0.00	12.20
	21	143.40	144.85	1.45	< 0.05	4.0	0.20	0.03	0.00	0.83
	22	144.85	145.00	0.15	0.14	27.3	4.77	0.02	0.00	6.53
[[23	145.00	146.40	1.40	<0.05	2.4	0.15	0.01	0.00	0.32
	24	146.40	146.60	0.20	0.15	38.6	4.60	0.03	0.00	5.77
	25	146.60	147.30	0.70	<0.05	0.7	0.09	0.01	0.00	0.40
	26	147.30	147.80	0.50	<0.05	16.7	1.37	0.01	0.00	2.10
	27	147.80	148.80	1.00	<0.05	4.4	0.18	0.01	0.00	0.82
	28	148.80	149.80	1.00	<0.05	0.6	0.09	0.01	0.00	0.43
	29	149.80	149.90	0.10	<0.05	4.0	0.32	0.03	0.00	0.95
ł - F	30	149.90	151.50	1.60	<0.05	1.4	0.13	0.02	0.00	0.54
-	31 32	151.50	153.00	1.50	<0.05	0.8	0.07	0.02	0.00	1.54
		153.00	154.50	1.50	<0.05	<0.5	0.07	0.03	0.00	2.80
	33 34	154.50 155.50	155.50 156.05	1.00 0.55	<0.05	<0.5	0.02	0.01	0.00	2.10
	35	156.05	156.05	0.55	<0.05	5.1	2,54	0.07	0.00	3.40
	36	156.05	156.20	1.25	<0.05 <0.05	12.0 2.3	18.95 0.38	0.87	0.04	12.94
	37	157.45	157.45	0.80	<0.05	9.9	1.82	0.02	0.00	1.41
	38	158.25	158.55	0.30	<0.05	<u>9.9</u> 1.2	0.29	0.02	0.00	2.50 1.30
	39	158.55	158.85	0.30	0.07	17.7	3.64	0.03	0.00	4.00
	40	158.85	160.50	1.65	<0.07	<0.5	0.05	0.07	0.00	0.70
	41	160.50	162.00	1.50	<0.05	0.6	0.09	0.02	0.00	1.02
	42	162.00	162.85	0.85	<0.05	0.7	0.06	0.04	0.00	0.07
	43	162.85	163.00	0.15	<0.05	20.9	2.72	0.03	0.00	2.80
	44	163.00	163.30	0.30	<0.05	1.0	0.04	0.02	0.00	0.83
	45	163.30	163.40	0.10	<0.05	7.4	1.82	0.05	0.00	2.40
	46	213.10	213.20	0.10	<0.05	4.0	1.36	0.03	0.00	2.28
	47	213.65	213.85	0.20	0.09	7.8	1.34	0.02	0.00	3.90

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Appendix 1-29 Results of Ore Assay (Core Samples)

Drill Hole No.	Sample No.	Dep (m		Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Zn (%)	Рb (%)	8 8
MJSU-4	48	215.00	215.15	0.15	<0.05	4.3	0.64	0.02	0.00	3.33
	49	217.00	217.10	0.10	<0.05	4.9	0.76	0.02	0.00	3.42
	50	226.75	226.85	0.10	<0.05	13.0	3.28	0.03	0.00	3.33
	51	227.25	228.05	0.80	<0.05	2.0	0.35	0.01	0.00	1.06
	52	241.20	242.05	0.85	<0.05	<0.5	0.05	0.01	0.00	0.75
	53	242.05	242.80	0.75	<0.05	0.7	0.05	0.03	0.00	0.80
	54	263.50	263.75	0.25	<0.05	0.8	0.09	0.06	0.00	2.62
	55	263.75	265.10	1.35	<0.05	<0.5	0.09	0.01	0.00	0.78
	56	265.10	267.05	1.95	<0.05	<0.5	0.17	0.01	0.00	0.92
	57	272.70	273.25	0.55	0.07	1.1	1.11	0.01	0.00	1.42
	58	278.95	279.35	0.40	<0.05	6.9	2.72	0.03	0.00	4.63
	59	285.70	286.75	1.05	<0.05	0.7	0.04	0.01	0.00	4.40
	60	292.30	292.60	0.30	<0.05	<0.5	0.00	0.01	0.00	4.60
	61	292.60	293.00	0.40	<0.05	<0.5	0.01	0.02	0.00	17.34
	62	293.00	294.25	1.25	<0.05	<0.5	0.01	0.01	0.00	2.20
N IOU E	63	294.25	295.30	1.05	<0.05	<0.5 2.8	<u>0.01</u> 0.19	0.01	0.00	2.00 5.67
MJSU-5		77.70	<u>79.40</u> 79.90	1.70 0.50	0.05 <0.05	11.0	1.86	0.03	0.00	3.71
	2	79.40 79.90	80.55	0.50	<0.05	5.4	0.83	0.05	0.00	2.90
	4	80.55	80.95	0.05	0.13	35.9	4.62	0.00	0.00	7.88
	5	80.95	81.70	0.75	0.07	2.1	0.16	0.02	0.00	<0.05
	6	81.70	82.55	0.85	0.12	27.8	4.28	0.07	0.00	11.07
	7	82.55	84.00	1.45	< 0.05	2.2	0.36	0.02	0.00	16.03
	8	84.00	85.50	1.50	< 0.05	0.8	0.09	0.01	0.00	7.29
	9	85.50	87.00	1.50	< 0.05	2.2	0.19	0.01	0.00	9.61
	10	87.00	88.90	1.90	< 0.05	1.9	0.15	0.01	0.00	7.42
	11	88.90	89.90	1.00	<0.05	10.5	1.42	0.04	0.00	3.45
	12	89.90	90,90	1.00	0.11	12.0	0.95	0.03	0.00	8.83
	13	90.90	91.90	1.00	0.08	15.8	1.59	0.03	0.00	8.39
	14	91.90	93.20	1.30	<0.05	15.7	3.33	0.03	0.00	4.90
	15	93.20	94.70	1.50	<0.05	1.4	0.17	0.01	0.00	0.70
	16	94.70	95.50	0.80	<0.05	1.5	0.41	0.02	0.00	1.15
	17	95.50	96.50	1.00	0.10	15.3	4.25	0.01	0.00	6.44
	18	96.50	97,50	1.00	<0.05	12.4	4.21	0.01	0.00	4.79
	19	97.50	98.50	1.00	<0.05	12.1	4.10	0.02	0.00	3.86
	20	98.50	99.50	1.00	<0.05	12.9	2.85	0.02	0.00	2.45
	21	99.50	99.90	0.40	0.36	5.8	2.12	0.02	0.00	2,58
	22	99.90	101.00	1.10		<u>2.6</u> <0.5	0.35 0.13	0.02 0.01	0.00 0.00	1.50 0.08
	23	109.65	<u>111.00</u> 112.50	1.35 1.50	0.05 0.10	<u>(0.5</u> 0.6	0.13	0.01	0.00	0.08
	24 25	111.00 112.50	112.50	1.50	<0.10	0.0	0.13	0.01	0.00	1,20
	25	112.50	114.00	0.50	<0.05	3.8	1.38	0.01	0.00	1.15
	20	151.30	151.65	0.35	<0.05	0.6	0.29	0.01	0.00	3.20
	27	229.80	231.30	1.50	<0.05	0.6	0.20	0.02	0.00	0.75
	20	231.30	232.80	1.50	0.05	<0.5	0.29	0.00	0.00	1.30
	30	232.80	233.90	1.10	<0.05	<0.5	0.13	0.00	0.00	0.63
	31	233.90	234.50	0.60	<0.05	0.5	0.50	0.01	0.00	3.82
	32	234.50	235.30	0.80	<0.05	0.5	0.41	0.01	0.00	14.11
	33	235.30	235.65	0.35	< 0.05	2.9	3.24	0.01	0.00	6.56
	34	235.65	236.05	0.40	< 0.05	<0.5	0.44	0.01	0.00	1.42
	35	236.05	236.20	0.15	< 0.05	3.0	1.06	0.01	0.00	4.88
	36	236.20	237.30	1.10	<0.05	<0.5	0.05	0.02	0.00	1.06
	37	237.30	238.55	1.25	0.10	6.6	0.66	0.02	0.00	11.64
	38	238.55	239.20	0.65	<0.05	1.5	0.39	0.01	0.00	6.37
	39	239.20	239.35	0.15	<0.05	2.1	0.93	0.01	0.00	6.11
1	40	239.35	239.55	0.20	<0.05	0.7	0.51	0.02	0.00	6.91

Appendix 1-	29 Resu	lts of C	ore Assa	y (Core :	Samples)	ł
Donth	Wishel	۸.,	۸	<u> </u>	7-	DL

Drill Hole	Sample	De	pth	Width	Au	Ag	Cu	Zn	Pb	S
No.	No.	(n	n)	(m)	(g/t)	(g/t)	(%)	(%)	(%)	(%)
MJSU-5	41	239.55	239.75	0.20	0.06	0.9	0.51	0.02	0.00	20.50
	42	239.75	239.95	0.20	0.60	<0.5	0.18	0.01	0.00	5.93
	43	239.95	240.45	0.50	0.13	3.5	0.54	0.02	0.00	17.26
	44	240.45	241.80	1.35	<0.05	<0.5	0.03	0.00	0.00	1.00
	45	241.80	242.60	0.80	0.08	<0.5	0.07	0.01	0.00	2.90
	46	242.60	243.90	1.30	0.05	<0.5	0.07	0.01	0.00	1.60
	47	243.90	245.65	1.75	<0.05	<0.5	0.07	0.01	0.00	0.70
	48	245.65	247.70	2.05	<0.05	2.0	1.02	0.02	0.00	6.34
	49	247.70	249.80	2.10	<0.05	<0.5	0.05	0.01	0.00	1.05
	50	249.80	250.20	0.40	< 0.05	1.0	0.21	0.03	0.00	4.50
	51	250.35	251.70	1.35	<0.05	2,2	0.62	0.02	0.00	3.90
	52	252.15	253.80	1.65	0.09	1.0	0.34	0.01	0.00	1.91
	53	253.90	255.45	1.55	<0.05	1.4	0.81	0.01	0.00	5.13
	54	255.45	256.30	0.85	0.12	21.9	2.58	0.02	0.00	9.30
	55	268.90	269.75	0.85	<0.05	1.8	0.95	0.01	0.00	9.20
	56	269.75	270.20	0.45	<0.05	<0.5	0.04	0.01	0.00	0.99
	57	270.20	271.10	0.90	<0.05	0.9	0.23	0.01	0.00	16.30
	58	271.10	271.55	0.45	<0.05	2.0	1.06	0.01	0.00	32.30
	59	271.55	271.85	0.30	0.09	8.6	2.49	0.02	0.00	6.32
	60	271.85	273.45	1.60	<0.05	3.3	1.48	0.01	0.00	1.95
	61	273.45	274.20	0.75	0.10	2.1	2.01	0.01	0.00	5.20
	62	274.20	275.40	1.20	<0.05	1.0	0.27	1.01	0.00	8.73
	63	275.40	276.35	0.95	0.06	<0.5	0.11	0.02	0.00	0.80
	64	276.35	277.15	0.80	0.27	2.6	0.70	0.01	0.00	2.16
	65	277.15	277.80	0.65	<0.05	<0.5	0.04	0.01	0.00	0.45
	66	277.80	278,15	0.35	<0.05	1.7	1.06	0.01	0.00	3.36
	67	278.15	280.00	1.85	<0.05	1.1	0.34	0.01	0.00	1.40
	68	280.00	280.35	0.35	<0.05	<0.5	0.28	0.01	0.00	1.54
	69	285.25	285.50	0.25	<0.05	6.4	1.96	0.01	0.00	4.33
	70	285.50	287.40	1.90	<0.05	<0.5	0.03	0.02	0.00	2.83
	71	298.95	299.90	0.95	0.18	<0.5	0.24	0.01	0.00	2.00
	72	299.90	301.60	1.70	<0.05	1.3	0.31	0.01	0.00	0.90
	73	303.55	303.85	0.30	<0.05	<0.5	0.17	0.01	0.00	1.36
	74	306.90	308.35	1.45	<0.05	<0.5	0.04	0.01	0.00	1.25
	75	308.35	310.30	1.95	<0.05	<0.5	0.12	0.01	0.00	0.30
	76	314.95	315.05	0.10	<0.05	<0.5	0.36	0.02	0.00	1.00
	77	318.90	319.05	0.15	<0.05	<0.5	0.19	0.01	0.00	0.50
	78	328.90	329.90	1.00	<0.05	8.6	7.04	0.02	0.00	5.00
	79	329.90	330.40	0.50	0.33	5.2	7.32	0.01	0.00	3.30
	80	330.50	331.20	0.70	<0.05	7.4	6.10	0.02	0.00	5.10
	81	331.20	331.65	0.45	0.05	< 0.5	0.33	0.02	0.00	2.25
MIOUR	82	342.20	342.50	0.30	0.09	0.8	0.47	0.02	0.00	2.60
MJSU-6	1	64.15	65.20	1.05	<0.05	0.7	0.02	0.02	0.00	1.15
	2	65.20	66.15	0.95	<0.05	<0.5	0.01	0.02	0.00	1.10
	3	66.15	66.90	0.75	<0.05	<0.5	0.03	0.03	0.00	2.25
	4	83.05	85.00	1.95	<0.05	<0.5	0.00	0.01	0.00	1.15
	5	98.70	99.90	1.20	<0.05	<0.5	0.00	0.03	0.00	2.20
	6	133.20	133.85	0.65	<0.05	4.6	0.28	0.24	0.01	6.50
	7	133.85	134.75	0.90	< 0.05	1.9	0.16	0.48	0.02	1.75
	8	134.75	135.35	0.60	<0.05	71.6	1.71	16.20	0.36	10.00
	9	135.35	135.75	0.40	<0.05	1.1	0.06	0.47	0.02	1.10
	10	135.75	136.20	0.45	< 0.05	15.0	0.17	0.04	0.02	4.60
	11	136.20	136.45	0.25	0.06	3.7	0.25	0.02	0.01	1.24
	12	136.45	136.90	0.45	<0.05	15.4	0.61	0.04	0.01	3.70
	13	136.90	137.20	0.30	<0.05	2.7	0.03	0.02	0.00	0.64
	14	137.20	138.00	0.80	<0.05	40.3	0.97	3.17	0.06	10.70

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Appendix 1-29 Results of Ore Assay (Core Samples)

Drill Hole	Sample	Dep	oth	Width	Au	Ag	Cu	Zn	Pb	S
No.	No.	(n		(m)	(g/t)	(g/t)	(%)	(%)	(%)	(%)
MJSU-6	15	138.00	138.85	0.85	<0.05	<0.5	0.03	0.04	0.00	0.47
	16	138.85	139.30	0.45	<0.05	3.2	0.23	0.06	0.01	2.90
	17	139.30	140.10	0.80	<0.05	<0.5	0.02	0.03	0.00	2.85
	18	140.10	140.40	0.30	<0.05	<0.5	0.03	0.03	0.00	2.10
	19	140.40	141.50	1.10	<0.05	<0.5	0.04	0.03	0.00	2.60
	20	154.05	154.25	0.20	<0.05	1.5	0.05	0.22	0.00	5.40
	21	154.25	154.60	0.35	<0.05	0.7	0.01	0.02	0.00	10.60
	22	154.60	154.85	0.25	<0.05	3.2	0.12	0.03	0.00	2.14
	23	166.80	167.05	0.25	<0.05	<0.5	0.00	0.01	0.00	2.68
	24	174.20	174.35	0.15	<0.05	1.4	0.00	0.00	0.00	3.10
	25	182.15	182.90	0.75	<0.05	2.1	0.10	0.01	0.00	5.57
	26	213.55	214.30	0.75	<0.05	<0.5	0.00	0.00	0.00	8.36
	27	214.30	215.10	0.80	0.05	<0.5	0.00	0.01	0.00	1.30
	28	215.10	215.95	0.85	<0.05	<0.5	0.00	0.01	0.00	2.70
	29	215.95	218.00	2.05	<0.05	<0.5	0.00	0.01	0.00	0.80
	30	218.00	219.90	1.90	<0.05	0.5	0.00	0.01	0.00	6.16
	31	219.90	220.70	0.80	0.07	<0.5	0.00	0.01	0.00	2.00
	32	220.70	220.90	0.20	<0.05	4.0	0.03	0.00	0.00	26.15
	33	220.90	223.00	2.10	<0.05	<0.5	0.01	0.00	0.00	7.35
	34	223.00	225,65	2.65	<0.05	<0.5	0.00	0.01	0.00	4.00
	35	225,65	227.25	1.60	<0.05	<0.5	0.00	0.00	0.00	13.40
	36	227,25	228.90	1.65	<0.05	0.6	0.00	0.00	0.00	20.00
	37	241.55	243.65	2.10	<0.05	1.2	0.01	0.02	0.00	2.30
	38	243.65	244.95	1.30	<0.05	1.4	0.06	0.01	0.00	1.75
MJSU-7	1	18.25	20.50	2.25	<0.05	<0.5	0.02	0.01	0.00	0.62
	2	25.10	26.75	1.65	<0.05	0.8	0.06	0.04	0.00	0.57
	3	28.45	30.00	1.55	<0.05	0.7	0.05	0.21	0.00	0.65
	4	34.15	35.85	1.70	<0.05	0.6	0.03	0.02	0.00	1.00
	5	49.25	49.85	0.60	<0.05	2.4	0.10	0.01	0.00	3.80
	6	60.00	60.20	0.20	<0.05	, 9.1	0.91	0.03	0.00	4.88
	7	62.85	63.50	0.65	<0.05	29.0	2.05	0.08	0.00	6.60
	8	63.50	64.85	1.35	<0.05	3.8	0.33	0.04	0.00	2.75
	9	70.15	72.65	2.50	<0.05	1.3	0.03	0.03	0.00	4.88
	10	72.65	73.45	0.80	<0.05	1.8	0.09	0.03	0.00	2.64
	11	73.45	74.30	0.85	<0.05	1.3	0.08	0.02	0.00	4.50
	12	74.30	76.55	2.25	<0.05	1.9	0.07	0.05	0.00	10.80
	13	76.55	76.70	0.15	<0.05	4.3	0.38	0.45	0.00	20.32
	14	76.70	78.05	1.35	<0.05	0.6	0.05	0.03	0.00	5.38
	15	79.90	80.15	0.25	<0.05	<0.5	0.05	0.02	0.00	2.60
	16	87.20	87.40	0.20	<0.05	1.0	0.04	0.04	0.00	2.84
	17	108.25	108.75	0.50	<0.05	3.6	0.10	0.01	0.00	2.28
	18	173.85	174.55	0.70	<0.05	1.1	0.04	0.09	0.01	3.00
	19	174.55	176.00	1.45	<0.05	2.2	0.07	0.22	0.03	2.95
	20	176.00	178.00	2.00	<0.05	0.9	0.02	0.11	0.01	2.50
	21	192.65	193.55	0.90	<0.05	3.4	0.04	0.09	0.05	3.20
	22	193.55	194.55	1.00	<0.05	1.5	0.01	0.33	0.03	3.00
	23	197.90	198.30	0.40	<0.05	1.0	0.08	0.21	0.00	2.65
	24	227.85	228.80	0.95	<0.05	<0.5	0.03	0.18	0.00	2.80
MJSU-8	1	14.20	15.00	0.80	<0.05	<0.5	0.00	0.01	0.00	0.33
	2	30.30	30.70	0.40	<0.05	1.2	0.01	0.01	0.00	0.60
	3	30.70	31.25	0.55	0.07	1.2	0.01	0.02	0.00	0.90
	4	31.25	33.30	2.05	< 0.05	<0.5	0.01	0.01	0.00	4.00
	5	33.70	35.70	2.00	0.06	0.6	0.01	0.01	0.00	4.50
	6	35.70	37.70	2.00	<0.05	0.6	0.02	0.01	0.00	4.10
	7	37.70	39.70	2.00	<0.05	0.7	0.03	0.01	0.00	4.35
	8	39.70	41.70	2.00	<0.05	0.7	0.02	0.01	0.00	4.42

Drill Hole	Sample		pth	Width		Ag	Cu	Zn	Pb	S
No.	No.		n)	(m)	(g/t)	(g/t)	(%)	(%)	(%)	(%)
MJSU-8	9 10	41.70 43.70	43.70 45.65	2.00	0.09	1.2	0.01	0.03	0.00	4.30
	11	69.55	45.05 71.95	2.40	0.08 <0.05	<0.5 <0.5	0.01	0.02 0.05	0.00	3.69
	12	71.95	73.25	1.30	0.06	0.9	0.01	0.05	0.00	3.30 5.37
	13	73.25	73.55	0.30	<0.05	3.9	0.02	12.74	0.01	14.00
	14	73.55	75.50	1.95	0.06	0.8	0.03	0.06	0.01	10.66
	15	75.50	77.20	1.70	0.14	1.0	0.02	0.00	0.01	11.35
	16	77.20	77.40	0.20	2.52	6.1	0.08	0.02	0.03	28.90
	17	77.40	79.20	1.80	0.07	0.8	0.02	0.01	0.01	12.10
	18	79.20	81.00	1.80	0.08	0.9	0.02	0.01	0.01	12.64
	19	81.00	82.65	1.65	0.08	1.1	0.02	0.00	0.01	11.48
	20	82.65	83.35	0.70	0.24	19.5	1.57	0.01	0.02	25.00
	21	83.35	85.10	1.75	0.10	6.2	0.11	0.25	0.01	7.00
	22	85.10	85.85	0.75	0.51	35.3	0.15	0.24	0.02	13.36
	23	85.85	87.85	2.00	0.05	4.0	0.01	0.02	0.03	5.62
	24	87.85	90.75	2.90	<0.05	0,5	0.01	0.01	0.00	5.55
	25	90.75	91.95	1.20	<0.05	0.8	0.02	0.02	0.00	9.00
	26	91.95	95.00	3.05	<0.05	0.6	0.01	0.01	0.00	4.07
	27 28	95.00 97.90	96.95	1.95	<0.05	0.9	0.01	0.01	0.00	4.80
	20 29	101.80	101.10 104.65	3.20 2.85	0.17 <0.05	2.0	0.02	0.01	0.00	8.79
	30	104.65	107.55	2.05	<0.05	<u>1.0</u> 1.3	0.01 0.02	0.03	0.00 0.00	6.70
	31	107.55	110.00	2.30	<0.05	1.5	0.02	0.01	0.00	9.60 10.00
	32	110.00	113.00	3.00	<0.05	<0.5	0.04	0.02	0.00	5.60
	33	113.00	114.05	1.05	<0.05	0.8	0.02	0.10	0.00	7.95
	34	114.05	117.00	2.95	<0.05	<0.5	0.01	0.01	0.00	4.75
	35	117.00	120.00	3.00	< 0.05	0.8	0.01	0.01	0.00	6.10
	36	120.00	123.00	3.00	0.07	0.9	0.01	0.01	0.00	5,15
	37	123.00	124,45	1.45	<0.05	0.5	0.01	0.01	0.00	5.75
	38	124.45	125.80	1.35	<0.05	0.5	0.01	0.01	0.00	4.00
	39	125.80	128.05	2.25	<0.05	0.7	0.01	0.01	0.00	6.80
	40	128.05	129.55	1.50	<0.05	1.0	0.04	0.01	0.01	10.40
	41	129.55	132,15	2.60	<0.05	1.0	0.02	0.03	0.00	6.00
	42	132.15	133.00	0.85	<0.05	1.0	0.03	0.01	0.00	9.73
	43	133.00	134.75	1.75	0.07	1.0	0.02	0.01	0.00	5,15
	44	134.75	137.70	2.95	< 0.05	<0.5	0.01	0.01	0.00	3.70
	45 46	137.70	138.85	1.15	<0.05	0.5	0.01	0.00	0.00	4.80
	40	138.85 139.35	139,35	0.50	<0.05	<0.5	0.00	0.01	0.00	3.55
	47	142.00	142.00 143.40	2.65 1.40	<0.05 <0.05	<0.5 <0.5	0.01	0.02	0.00 0.00	5.55 5.20
ŗ	49	143.40	143.40	0.95	<0.05	<0.5	0.01	0.00	0.00	5.20 4.60
	50	144.35	146.00	1.65	<0.05	<0.5	0.01	0.00	0.00	6.10
	51	146.00	147.50	1.50	<0.05	0.7	0.01	0.00	0.00	4.30
	52	147.50	149.00	1.50	<0.05	0.6	0.01	0.02	0.00	4.55
ľ	53	149.00	150.50	1.50	<0.05	<0.5	0.01	0.00	0.00	4.14
	54	150.50	152.00	1.50	<0.05	0.7	0.01	0.01	0.00	5.50
	55	152.00	153.50	1.50	<0.05	0.6	0.01	0.01	0.00	4.00
	56	153.50	154.20	0.70	<0.05	0.6	0.01	0.03	0.01	5.10
	57	154.20	155,45	1.25	<0.05	0.6	0.02	0.04	0.00	8.80
ļ	58	155.45	157.00	1.55	<0.05	<0.5	0.01	0.03	0.01	4.02
-	59	157.00	158,75	1.75	<0.05	0.8	0.01	0.01	0.00	5.52
ŀ	60	158.75	159.95	1.20	<0.05	1.0	0.01	0.04	0.00	6.45
ŀ	61	159.95	161.50	1.55	<0.05	1.8	0.02	0.04	0.01	7.26
-	62	161.50	163.00	1.50	<0.05	2.5	0.01	0.02	0.01	6.90
ł	63	163.00	164.50	1.50	<0.05	2.6	0.01	0.02	0.01	10.12
	64	164.50	166.00	1.50	<0.05	1.0	0.02	0.04	0.01	6.18

Appendix 1-29 Results of Ore Assay (Core Samples)

Appendix 1-29 Results of Ore Assay (Core Samples)

Drill Hole	Sample	Dep	oth	Width	Au	Ag	Cu	Zn	Pb	S
No.	No.	(m	n)	(m)	(g/t)	(g/t)	(%)	(%)	(%)	(%)
MJSU-8	65	166.00	167.50	1.50	<0.05	0.7	0.01	0.02	0.00	4.27
	66	167.50	169.00	1.50	<0.05	0.5	0.01	0.03	0.00	4.06
	67	169.00	170.50	1.50	<0.05	0.6	0.01	0.01	0.00	5.35
	68	170.50	172.00	1.50	<0.05	0.7	0.00	0.02	0.00	3.90
	69	172.00	173.50	1.50	<0.05	<0.5	0.01	0.03	0.00	3.12
	70	173.50	175.00	1.50	<0.05	1.0	0.01	0.02	0.00	4.25
	71	175.00	176.50	1.50	<0.05	0.8	0.01	0.01	0.00	3.90
	72	176.50	178.00	1.50	<0.05	1.0	0.01	0.01	0.00	3.95
· ·	73	178.00	179.50	1.50	<0.05	0.6	0.00	0.01	0.00	3.00
	74	179.50	181.00	1.50	<0.05	0.6	0.01	0.01	0.00	3.78
	75	181.00	182.60	1.60	<0.05	<0.5	0.01	0.01	0.00	3.39
	76	183.50	185.00	1.50	<0.05	1.0	0.01	0.01	0.00	4.22
	77	185.00	186.05	1.05	<0.05	1.5	0.00	0.01	0.00	5.66
	78	199.00	200.50	1.50	<0.05	<0.5	0.00	0.00	0.00	2.25
	79	200.50	202.00	1.50	<0.05	<0.5	0.00	0.00	0.00	2.50
	80	202.00	203.50	1.50	<0.05	<0.5	0.01	0.00	0.00	2.42
	81	203.50	205.00	1.50	<0.05	<0.5	0.01	0.00	0.00	1.85
	82	205.00	206.50	1.50	<0.05	<0.5	0.01	0.00	0.00	3.35
	83	206.50	208.00	1.50	<0.05	<0.5	0.00	0.00	0.00	1.65
	84	208.00	209.50	1.50	<0.05	<0.5	0.01	0.00	0.00	2.25
	85	209.50	211.15	1.65	<0.05	<0.5	0.01	0.01	0.00	2.90
	86	228.45	230.00	1.55	<0.05	<0.5	0.01	0.00	0.00	1.15
	87	230.00	231.45	1.45	<0.05	<0.5	0.01	0.01	0.00	3.00
	88	231.45	232.95	1.50	<0.05	0.9	0.01	0.00	0.00	1.00
	89	232.95	233.85	0.90	<0.05	<0.5	0.01	0.00	0.00	0.85
	90	233.85	235.35	1.50	<0.05	<0.5	0.00	0.00	0.00	3.10
	91	235.35	236.70	1.35	<0.05	0.7	0.01	0.00	0.00	4.45

e.

Drill s	Sample	a Rock type	Texture	phenocryst or fragment groundmass or matrix metamorphic or alteration
	Ś			others MP hb qz pl Kf gi op others ep
NJSU-1	12	12 Rhyodacite	porphyritic	
]		weakly meta		Sericite develops stongly along cracks and partly replace plagioclase. Devitrified glass partly into chlorite.
	75	75 Rhyodacite lapilli tuff	clastic	
I		weakly meta		Sericite occurs widely as a layer. Carbonate occurs in a matrix and as a vein.
	129	129 Rhyodacite coarse tuff	clastic to	
1			porphyritic	Sericite widely develops with a mesh-like structure.
	199		clastic	
		weakly meta		Carbonate vein is common. Chlorite and sericite replace devitrified glass.
	248	248 Volcanic breccia	clastic	
		weakly meta		Sericite occurs as a layer replacing matrix. Chlorite replaces devitrified glass.
MJSU-2	45	45 Basalt	partly trachytic	
		weakly meta		Most of the minerals and glass are carbonatized and chloritized. Sericite occurs along a crack.
	83	63 Basalt	originally	
1		neta	aphyric	Mafic minerals are totally replace by chlorite, sericite and carbonate. Carbonate vein.
	65	65 Microdiorite	micro-ophitic	
		weakly meta		<u>Glassy part and mafic minerals are totally replaced by chlorite and carbonate.</u>
	75	75 Basalt	porphyritic	
1		weakly meta		<u>Glassy part is totally replaced by chlorite and sericite. Sericite occurs along cracks.</u>
	106	106 Basaltic tuff	clastic to	
1		eta	sub-trachytic	Matic minerals are totally replaced by chlorite and carbonate. Amygdule is filled by quartz and carbonate.
	120		clastic	
		weakly meta		<u>Glassy part is totally replaced by chlorite, sericite and carbonate.</u> carbonate vein.
MJSU-3	9	10 Dacite	porphyritic	
1		weakly meta		Glass and mafic minerals is into chlorite and sericite. Plagioclase is strongly replaced by sericite.
	S	Silicified volcanic rock	porphyritic	
1		weakly meta		<u>Matrix is strongly silicified.</u>
	41	Silicified volcanic rock	porphyritic	
ł		weakly meta		<u>Matrix and feldspar are strongly silicified and sericitized.</u> Carbonate vein.
	83		clastic	
4		weakly meta		<u>Mafic minerals and matrix are replaced by chlorite and sericite.</u> Plagioclase strongly by epidote and sericite.
	89	89 Dacite	porphyritic	
		weakly meta		Mafic minerals are replaced by chlorite. Plagioclase strongly by epidote and sericite.
	131	131 Porphyritic dacite	porphyritic	
1		weakly meta		<u>Matic minerals is replaced by chlorite.</u> plagioclase by epidote. Carbonate vein.
	150	150 Microdiorite	sub-trachytic	
1				<u>Mafic minerals is replaced totally by chlorite. plagioclase by sericite. Carbonate vein.</u>
	171	171 Dacite coarse tuff	clastic	〈△〉 〇 〇 ・
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II	No.	alaatia ta	MP cpx hb gz pi Kf op others MP hb gz pi Kf gi op others ep chi amp ser tit cb others
	Thursday and a second read	alatia ta	
	I I KINYODACITE COARSE TUTT	CIASTIC 10	
	weakly meta	porphyritic	Mafic minerals are replaced by chlorite. Plagioclase is replaced strongly by sericite. Carbonate vein.
	232 Dacite	porphyritic	
24 MJSU-4	weakly meta		Mafic minerals are replaced by epidote and chlorite. Plagioclase is replaced mainly by sericite. Carbonate vein
	243 Porphyritic dacite	porphyritic	
	weakiy meta		Mafic minerals are replaced by epidote and chlorite. Plagioclase is replaced mainly by sericite. Carbonate vein.
	15 Diorite	ophitic	(0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	weakly meta		Mafic minerals are by epidote and chlorite. Plagioclase is locally by epidote. Graphic texture develops.
e	30 Dolerite	micro-ophitic	
	weakly meta		Mafic minerals except for hormblende are replaced by chlorite. Plagioclase is partly by epidote. carbonate vein
4	40 Diorite	equigranular	O <@> Δ apa (•) 0 @
	weakly meta		Plagioclase and mafic minerals are replaced totally by chlorite and sericite. Carbonate vein.
4	45 Silicified volcanics	porphyritic?	1
	weakly meta		Mafic minerals are replaced by chlorite. Carbonate vein is common.
ŝ	52 Rhyodacite coarse tuff	clastic to	(∆) O (∆) · O O (O (O C O O O O O O O O
	weakly meta	porphyritic	Mafic minerals are replaced by chlorite. Plagioclase is replaced by sericite.
80	80 Porphyritic andesite	porphyritic	
	weakly meta		Hornblende is partly by chlorite, carbonate and actinolite. plagioclase by epidote. Carbonate vein.
ອ 	95 Porphyritic andesite	porphyritic	
	weakly meta		Mafic minerals are replaced by chlorite, epidote and carbonate. Plagioclase by sericite and carbonate.
12	121 Rhyodacite lapilli tuff	clastic to	
	weakiy meta	porphyritic	ic minerals and matrix are by chlorite, carbor
13	136 Dacite coarse tuff	clastic to	
	weakly meta	porphyritic	<u>Mafic minerals are by chlorite and carbonate. Plagioclase is by sericite and carbonate.</u>
11	175 Andesite	porphyritic	
	weakly meta		Matic minerals are replaced by chlorite. Plagioclase is replaced strongly by sericite.
61	193 Andesite lapilli tuff	clastic to	O ⟨@⟩ Δ <c< th=""></c<>
	weakly meta	porphyritic	Mafic minerals are replaced by chlorite. Plagioclase is replaced strongly by sericite. Carbonate vein.
- 22	222 Andesite lapilli tuff	clastic to	
	weakly meta	porphyritic	Mafic minerals are replaced by chlorite. Plagioclase is replaced strongly by sericite. Carbonate vein.
23	238 Andesite lapilli tuff	clastic to)> · · · · · · · · · · · · · · · · · · ·
	weakly meta	porphyritic	Mafic minerals by chlorite and carbonate. Plagioclase by sericite and epidote. Carbonate and sericite veins.
25	259 Dacitic lapilli tuff	clastic to	
	strongly by carbonate porphyritic	porphyritic	Plagioclase and matrix are strongly replaced by carbonate. Sericite occurs as a layer. Chlorite vein.
28	282 Rhyodacite coarse tuff	clastic to	
	silicified	porphyritic	ongly silicified. Sericitization and chloritization are widespread. Co
	288 Dacite	porphyritic	
	weakly meta		Matic minerals are replaced by chlorite. Plagioclase is by sericite. Carbonate vein.

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Drill	Sample	e Rock type	Texture	
				pi Kf op others MPI hb az bi Kf
MJSU-4	296	296 Rhyodacite tuff	clastic to	
		weakly meta	porphyritic	Mafic minerals are replaced by chlorite and sericite. Plagioclase phenocryst totally by sericite.
9-USLM	ধ্য	25 Diorite	porphyritic	
		weakly meta		Hornblende is partly replaced by chlorite. Plagioclase is strongly by epidote and sericite.
	8	63 Diorite	ophitic	
		weakly meta		Mafic minerals are replaced by chlorite. Plagioclase phenocryst strongly by sericite. Carbonate vein.
	115	115 Dacitic lapilli tuff	clastic to	0
		weakly meta	porphyritic	
	124	124 Andesite lapilli tuff	clastic to	
		weakly meta	porphyritic	Mafic minerals are by chlorite. Plagioclase phenocryst strongly by epidote and sericite. Carbonate vein
	138	138 Dolerite	ophitic	
		weakly meta		Clinopyroxene is strongly by chlorite and carbonate. Orthopyroxene(?) is totally by chlorite.
	165	165 Andesite lapilli tuff	clastic to	
		weakly meta	porphyritic	Matic minerals are replaced by chlorite. Plagioclase phenocryst strongly by sericite. Carbonate vein
	194	194 Andesite coarse tuff	clastic to	
1		weakly meta	porphyritic	Mafic minerals are replaced by chlorite. Plagioclase phenocryst strongly by sericite.
	210	210 Andesite lapilli tuff	clastic to	
1		weakiy meta	porphyritic	Mafic minerals are replaced by chlorite. Plagioclase phenocryst strongly by sericite. Carbonate vein
	264	264 Rhyodacite	porphyritic	
		weakly meta		Matic minerals are replaced by chlorite. Plagioclase phenocryst strongly by sericite and epidote. Carbonate vein
	249	249 Rhyodacite lapilli tuff	clastic to	0
		weakly meta	porphyritic	Mafic minerals by chlorite. Matrix strongly by sericite and chlorite. sericite occurs as a layer. Carbonate vein.
	283	283 Rhyodacite lapilli tuff	clastic to	0 0 0 (@) · apa (·) 0 0
		weakly meta	porphyritic	
	315	315 Dacitic lapilli tuff	clastic to	
		weakly meta	porphyritic	Mafic minerals are replaced by chlorite. Plagioclase phenocryst strongly by sericite and epidote. Carbonate vein
	337	337 Dacitic lapilli tuff	clastic to	
		weakly meta	porphyritic	Matic minerals are replaced by chlorite. Plagioclase phenocryst strongly by sericite.
9-NSCM	47	47 Basaltic tuff	clastic to	
		weakly meta	porphyritic	Mafic minerals and matrix are replaced totally by chlorite. Carbonate vein.
	58	58 Basaltic fine tuff	clastic to	
		weakly meta	porphyritic	Mafic minerals and matrix are replaced by chlorite. plagioclase partly by sericite. Carbonate vein.
	74	74 Dolerite	micro-ophitic	
k		weakly meta		
	132	132 Dacitic tuff	clastic to	
		weakly meta	porphyritic	Matrix is replaced by chlorite and sericite. Plagioclase phenocryst is highly by sericite.
	145	145 Basaltic fine tuff	clastic to	
		weakly meta	porphyritic	Most of the minerals and matrix are replaced by chlorite and carbonate.

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			exture	i phenocryst of fragment i groundmass or matrix i metamorphic	Dhic of alteration
TIOLO NO.	No.			MPI cnv/ hb a7 n Kf nn nthere MP hb a7 n Kf a1 nn othere an	cort tit ob other
2-USLM	72	72 Basaltic fine tuff	clastic to		
		weakiy meta	porphyritic	sericite. Matrix by chlorite and	sericite. Oz vein.
L	202	202 Rhyodacite tuff	clastic to	0 0 · aba (·) 0	
		weakiy meta	porphyritic	Matrix is replaced highly by chlorite, sericite and carbonate. Pleochroic carbonate: ankerite	te
<u> </u>	210		porphyritic		
		weakly meta		Plagioclase is replaced highly by chlorite, sericite and carbonate. Matrix strongly by carbonate	nate and chlorite.
	240	240 Rhyodacite	porphyritic	O △ △ ◎ O · apa (·)	•
		weakly meta		Matic mineral (biotite?) is replaced by sericite. Sericite occurs commonly as a layer.	
8-USLM	10	10 Basalt	porphyritic		
		weakly meta		Mafic minerals are replaced totally by chlorite. Matrix is by carbonate and chlorite. Carbo	1
	20	20 Porphyritic basalt	porphyritic		0
		weakly meta		Mafic phenocryst are by carbonate. Matrix is by chlorite. Plagioclase is by carbonate and	d epidote.
	39	39 Rhyodacite tuff?	clastic to		
		highly silicified	porphyritic	Mafic minerals are by chlorite. Devirified glass is by chlorite(or clay minerals)	
	57	57 Rhyodacite coarse tuff	clastic to		0 0 0
		weakly meta	porphyritic	Mafic minerals are replaced by carbonate. Carbonate vein.	
	5	91 Volcanic breccia	clastic		0
		weakly meta		<u>Mafic minerals(?) are replaced mainly of aggregates o opaque minerals. Quartz vein.</u>	
	8 6	98 Volcanic breccia	clastic		0
		weakly meta		Mafic minerals(?) are replaced mainly of aggregates o opaque minerals.	
	183	183 Sandstone?	clastic		
		weakly meta		Grain boundaries and glassy materials are highly replaced by sericite.	
	192	192 Porphyritic andesite	porphyritic		∆ O prh(∆)
		weakly meta		Plagioclase(saussurite) is partly replaced by prehnite and epidote. Mafic minerals are by chi	chlorite and carbonate.
	207	207 Pumiceous volcanic breccia	clastic		0
		weakly meta		Fragment of qz aggregate is common. Glassy part is replaced by sericite.	
	226	226 Andesite	porphyritic		
		weakly meta		Plagioclase, totally sussurite, is replaced partly by epidote. Mafic minerals are by chlorite	and epidote.
	233		clastic	ê 	O · goe(∆)
		weakly meta		Matic minerals are replaced by chlorite. Sericite occurs at the grain boundaries among fra	fragments.
	244	244 Volcanic breccia	clastic		∆ O prh(∆)
		weakly meta		Matic minerals by chlorite and epidote. Placioclase strongly by epidote. Prehnite and carbonate veins.	bonate veins.

abbrev. MP=pseudomorphs of mafic minerals, cpx=clinopyroxene, pl=plagioclase, op=opaque minerals, qz=quartz, hb=hornblende, kf=K-feldspar epi=epidote, gl=glass or microcrystalline aggregate, amp=green amphibole, cb.=carbonate, ser=sericite, tit=titanite, apa=apatite, cly=clay minerals, prh=prehnite <> shows almost totally decomposed @abundant, Ocommon, ∆small, -rare

Loca	alities	Sample No.	Depth (m)	Rock Name	Pyrite	Chalcopyrite	Covellite	Chalcocite	Tetrahedrite	Sphalerite	Galena	Cłausthalite (PbSe)	Altaite (PbTe)	Hessite (Ag, Te)	Naumannite (Ag ₂ Se)	Magnetite	Hematite	Anatase
4/6	MJSU-1	153P	153.5	cp-py-sph stringers	0	0				0	0		Ι					
Gossan	WN30-1	215P	215.5	cp-py-sph vein	0	0				0	Δ			Δ				
		122P	122.4	cp-py breccia ore	0	0				Δ				Γ				
		124P	124.3	py-cp-sph breccia ore	0	0				0	Δ		Δ					
4/6	MJSU-2	131P	131.2	py-sph-cp massive ore	0	0	Δ			0	Δ							
Gossan	NU30-2	132P	132.1	py-cp-sph massive ore	0	0	Δ			0	Δ							
		135P	135.7	py breccia ore	0	Δ				Δ	Δ							
		141P	141.2	py-cp massive ore	0	0	Δ		1	Δ								
Umm ad Damar	MJSU-3	214P	214.9	cp-py network vein	0	0				0	Δ							
North	WJ30-3	220P	220.6	py-cp network vein	0	0										0	Δ	
		1 43 P	143.3	py-cp vein, 4cm wide	0	0				0								Δ
Umm ad Damar	MJSU-4	1 49P	149.9	py-cp veinlets	0	0				Δ								0
Damar North	MJ50-4	156P	156.1	py-cp vein, 15cm wide	0	0				0	Δ	Δ						Δ
		279P	279.1	py-cp veinlets	0	0				Δ								
		81P		disseminated & layered cp-py	0	0				Δ								Δ
		96P		cp-py veinlets	Δ	0				Δ								
Umm ad Damar	MIDUE	236P	236.1	cp veinlets, 15cm wide	Δ	0								-				Δ
Damar North	MJSU-5	271P	271.2	massive py	0	0				Δ								
		273P	273.1	layered py-cp-sph	Δ	0				0								0
		329P	329.6	cp veinlets, 1.5m wide	0	Ø						Δ						Δ
4/6 Gossan	MJSU-6	135P		thinly banded breccia ore consisting of sph-py-cp	Δ	Δ	Δ	Δ		0	Δ		Δ					
		60P		cp-qtz vein, 20cm wide	Δ	0			Δ	Δ								
ortheast of 4/6	MJSU-7	63P		cp-qtz veinlets, 1-2cm wide	0	0				Δ		Δ			Δ			Δ
Gossan		76P	76.6	cp-qtz veinlets, 15cm wide	0	Δ				Δ		Δ						Δ
		73 P1	73 3	py-cp massive ore fragment, 4×4cm	0	0				Δ		Δ						
Jabal Sujarah	MJSU-8	73P2	735	sph massive ore fragment, 7×7cm	0	0				Ø								
		83P ·		py-cp massive ore	0	Δ												Δ

Appendix 1-31	1 Results of Microscopic Observation of Polished Section	ons (Core Samples)
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Localities (Dr	rill Hoie No.)	Sample No.	Depth(m)	Rock Name	Quartz	Calcite	Chlorite	Sericite	Plagioclase	Pyrite	Chalcopyrite
		98X	98.6	Rhyodacitic lapilli tuff	0		Δ	0	0		
		11 7X	117.4	Basaltic tuff	0	0	0		Δ		
4/6 Gossan	MJSU-2	125X	125.7	Rhyodacitic lapilli tuff	Δ		0			0	
4/0 00858/1	MJ30-2	1 29X	129.0	Rhyodacitic lapilli tuff	0		Δ	Δ			
		142X	142.2	Rhyodacitic tuff	0		0				
		144X	144.7	Rhyodacitic tuff	0		Δ	Δ	Δ		
		211X	211.5	Porphyritic dacite	0		0	Δ			
Umm ad Damar	MJSU-3	217X	217.5	Rhyodacitic coarse tuff	0		Δ	Δ			
North		224X	224.5	hvodacitic?	0		Δ		Δ		
	mar MJSU-4	56X	56.3	Strongly silicified rhyodacitic? rock	0	Δ	0	0		Δ	
		61X	61.5	Silicified rhyodacitic rock	0	Δ		0			
Umm ad Damar		131X	131.6	Rhyodacitic coarse tuff	0	0	0	Δ			
North	MJSU-4	138X	138.0	Dacitic coarse tuff	0	Δ	0	0			
		14 3 X	143.1	Chloritized part	0	Δ	0	0		Δ	
		145X	145.3	Dacitic coarse tuff	0	Δ	0	0		0	
		285X	285.8	Pyritized part	0	Δ	0	0		0	
		79X	79.6	Strongly chloritized part	0	0	0	0		Δ	
		96X	96.3	Strongly chloritized part	0	0	0				
		236X	236.1	Chloritized part	0		0			Δ	0
Umm ad Damar	MJSU-5	246X	246.6	Chloritized part			0			Δ	
North		270X	270.6	Chlorite & siliceous layer in thinly banded pyrite ore	0	Δ	0	Δ			
}		274X	274.3	Chlorite & siliceous layer in banded pyrite ore	Δ		0			Δ	Δ
		331X	331.1	Strongly chloritized part			0				Δ
northeast of 4/6 Gossan	MJSU-6	134X		Qtz-vein in graphite	٢		0	Δ			
		41X	41.7	Brecciated silicified rock, rhyodacitic tuff?	٢	0		0			
Jabal Sujarah	MJSU-8	74X	74.6	Clayey fine tuff 💦	Δ		Δ	0		0	
-		141X	141.8	Pumiceous volcanic breccia	0		Δ	Δ		Δ	
		184X	184.9	Pumiceous lapilli tuff			Δ	0		0	

Appendix 1-32 Results of X-ray Diffraction Analysis (Core Samples)

Samples)
Outcrop
and
(Core
Assay
Ore
Results of
Appendix 2-1

Drill Hole	Sample	Del	Depth	Width	٩n	Ag	υ	Zu	94 4	S	9 L
No.	No.	(m)	((m)	(g/t)	(g/t)	(%)	(%)	R	(%)	(%)
	-	105.95	107.95	2.00	0:30	21.2	1.88	0.05	0.00	4.98	3
	2	107.95	109.95	2.00	0.35	26.8	2.37	0.07	0.00	6.98	1
UAD-4	3	109.95	112.05	2.10	0.36	20.8	1.67	0.56	0.00	8.75	
	4	112.05	114.05	2.00	1.00	38.4	3.56	3.60	0.00	15.50	4
	5	114.05	115.00	0.95	1.44	40.8	4.06	1.96	0.00	8.25	E
K0013101	3101	4/6 Gossan Prospect	Prospect		<0.05	<1.0	0.01	0.01	0.01	ı	31.09
K002	K0020503	B-12 Charge	B-12 Chargeability Anomaly	ıly	<0.05	3.2	0.04	0.02	0.11	ſ	2.30
K0020603	0603	O-21 Chargeability Ano	ability Anomaly	ylı	<0.05	1.8	0.09	0.01	0.00	ŧ	14.91
K0020604	0604	0-21 charge	0-21 chargeability Anomaly	y ^l	<0.05	<1.0	0.06	0.02	0.00	B	19.77
K0021401	1401	West of J-16	West of J-18 Chargeability Anomaly	y Anomaly	<0.05	<1.0	0.02	0.01	0.00	9	14.44
K0021402	1402	West of J-16	West of J-18 Chargeability Anomaly	y Anomaly	0.08	6.2	0.02	0.01	0.00	I	8.86
K0021403	1403	West of J-18	West of J-18 Chargeability Anomaly	y Anomaly	<0.05	<1.0	0.02	0.01	0.00	ı	8.33
K0021404	1404	4/6 Gossan Prospect	Prospect		0.05	1,4	0.01	0.01	0.01	4	3.31

Sample S	Symbol	Locality	Rock type	Texture		Pher	locrys	sts or	Phenocrysts or fragmnets	nets				Gro	mbnu	ass 0	Groundmass or matrix	XiX			Me	Metamorphic or alteration	phic (or alt	eratio	E
No.					МР	clp	h d	q z p	pl Kf	f op	others	* MP	clp	qų	zb	٦		Kf 6	op ^{oth}	others Epi	pi chl	amp	ser	tit	ę	others
KONDAFAF		B-12	Rhyodacite glomero-	glomero-				.	*						0	0		$\left - \right $		0	V		*		Δ	
000000	-	Anomaly	weakly meta	weakly meta porphyritic Feldspars	Feldsp	are	nodera	tely alt	ered to	epidate	moderately altered to epidote and carbonate.	arbona		e micr	ofractu	ires arc	filled r	mainly	by qua.	rtz and	Late microfractures are filled mainly by quartz and minor epidote, chlorite and carbonate.	spidote,	chlori	ite and	carbon	nate.
KUNDAEND	446	B-12	Rhyodacite porphyritic	porphyritic				7 *	* \						0	*			*	0	0				0	
20002004		Anomaly	weakly meta		Rock is		affected by		opyliti	c alte	propylitic alteration where feldspars	wher	e feld	spara	are	most	mostly altered to	red tu) epid	ote a	epidote and carbonate.	bonat	e.			
		B-12	Dacite	porphyritic				0 ▼	0	*					0	⊲	\$			0	0		*		0	
	•	Anomaly	weakiy meta		Feldspan	idepars are moderately altered to epidote, carbonate and chlorite. Glassy material is mostly altered to chlorite. Late fractures are filled by	derately	altered	ta epidc	ıte, carb	onate al	nd chlori	ite. Glas	ay mat	ariai is n	rostly al	tered to	chlorit	v. Late f	racture.	s are fille	d by que	urtz, cau	rbonate	quartz, carbonate, and spidote.	idote.
KOD34106	۰, ۲	Southeast	Rhyodacite glomero-	glomero-			-	0	0						0	0			*	*	⊲				⊲	
		of J-18	weakly meta	weakly meta porphyritic		Matrix is weakly chloritized and carbonatized.	chlorit	ized an	d carbo.	natized.		mate fo	rms pal	tchy all	teration	. Local	y mild ir	ron sta	ining alt	ang mic	Carbonate forms patchy alteration. Locally mild iron staining along microfracture is	tre is du	ie to o	xidatio	due to oxidation of sulfides.	ides.
		Southeast	Rhyodacite porphyritic	porphyritic			-	0	*						0	⊲			*		0		*		⊲	
00412000	_	of J-18	weakly meta		Weekly (Weakly schistosed, some quartz phenocrysts show	d, some	quartz	phenoci	rysts sh	ow rotat	rotational effect and	fect and	pressu	rre shad	lows. La	te micro	ufractur.	es paral	lei to st	pressure shadows. Late microfractures parallel to shear plane are filled by quartz and carbonate.	e are fill	ed by q	uertz e	nd carbo	onate.
K001 2001	H PV	East of 4/6	Dacite	glomero-					* 0						0	⊲			*	*	© 				⊲	
10001000	2	Gossan	weakly meta	porphyritic	Feldsp	Feldspars phenocrysts are mostly altered to carbonate, chlorite and epidote.	ocrysta	s are m	lostly a.	Itered t	o carbo	onate, c	shlorite	ande	pidote.	Matrix	is mod	ieratel	y chlori	tized.	Matrix is moderately chloritized. Late microfractures filled	srofract	iures fi	illed w	with carbonate.	onate.
CUBUCUUN	<u>م</u> ۔	South	Rhyodacite glomero-	glomero-				∇	*	*					0	⊲				*	0		*		⊲	goe *
		of J-18	weakly meta	weakly meta porphyritic Qz phenocrysts rimmed by slikce. Feldspars phenocrysts are altered to cb.	Qz pher	tocrysts	rimmed	by slik	a. Felds	ipers ph	enocrys	sts are (altered	to cb, c	shi, & el	oi. Two	types ch	b noted	(iron-r	ich & Ir	chi, & epi. Two types cb noted (iron-rich & iron-poor). Matrix is moderately chloritized). Matrix	is mod	deratel	y chloriti	ized.
	; rv	South	Andesite	porphyritic					0						⊲	0			*	*	0				⊲	
10671004		of J-18	weakly meta	& vesicular	Andes	ndesite or	dacite.		fics to	otally	Mafics totally altered to ch	d to c	-/+ lực	- epi.		vgdule	Amygdules (?) filled with chl,	filled	with	chl, cb,	epi	& qz.				
K0013009	L A	East of 4/6 Andesite	Andesite	porphyritic				-	0							0	$\hat{\mathbf{x}}$		*	4	0				⊲	
2000-0001	2	Gossan	weakly meta	& vesicular	Basalt	asaltic andesite.	lesite		Mafics totally		altered	d to chl,	hl, epi,	ంర	cb. An	nygdr	Amygdules filled with chl	led v	ith ch	låk qz.	N					
K0091405	5	South of	Andesite	intersertal												0		Ē	0	0	0				⊲	
	2	J-18	weakiy meta	& vesicular	Mafics totally altered to chl +/- spi. Plagioclase mostly altered to spi, chl & cb. Locally amygdules filled with chl, epi, cb & qz.	otally alt	ared to	-/+ lha	epi. Pla	gioclase	mostly	altered	to epi, c	ihl & ch	, Local	ly emyg	lules fille	9d with	chi, epi.	cb & q	t. Micro	Microfractures with epi, cb and qz fillinga.	s with e	api, cb i	and qz fii	llings.

Abbrev. MP=pseudomorphs of mafic minerals, cpx=clinopyroxene, pl≃plagioclase, op≕opaque minerals, qz=quartz, hb=hornblend, Kf=K-feldspar, epi≕epidote, gl=glass or microcrystalline aggreagte, amp=green amphibole, cb=carbonate, ser=sericite, tit=titanite, apa=apatite, cly=clay minerals.

<> shows totally decomposed

© abundant O common ∆ small

* rare

Appendix 2-3 Results of Microscopic Observation of Polished Sections (Outcrop and Core Samples)

əsstanA					4					<u> </u>
Geothite					⊲	4	٩	4	0	4
Hematite										
etitengeM		4	⊲	٩						
Pyrrhotite					⊲	4			1	
Naumannite (Ag ₂ 3e)										
essite (Ag∑SA)										
Altaite (9Td9)										
Clausthalite (PbSe)										
ensleb										
Sphalerite	4	0	0	0	⊲	⊲	4			
Tetrahedrite										
Chalcocite										
Sovellite			4		Þ	٩	٩			
Chalcopyrite	٩	0	0	Ø	Ø	0	0	0		⊲
Pyrite	Ø	Ø	Ø	0	0	0	Ø	Ø		
Rock Name	108.1 Py-cp-qtz vein	111.5 Py-cp-qtz vein	112.2 Disseminated sp-py ore	112.6 Disseminated sph-cp-py ore	99.1 Cp-py stringers	104.7 Cp-py stringers, dissemination	111.1 Cp-py stringers	243.6 Cp-py stringers, dissemination	Siliceous Fe-oxides	Quartz vein? with Cu- oxides
Depth (m)	108.1	111.5	112.2	112.6	99.1	104.7	111.1	243.6		
Sample No.	108P	111P	112P1	112P2	466	104P	111P	243P	K0013101	K0022403
Localities						9-UA11			South of 4/6 Gossan K0013101	
		Umm ad Damar	South			Umm ad Damar	North		South of 4	Northeast of M-27 Anomaly

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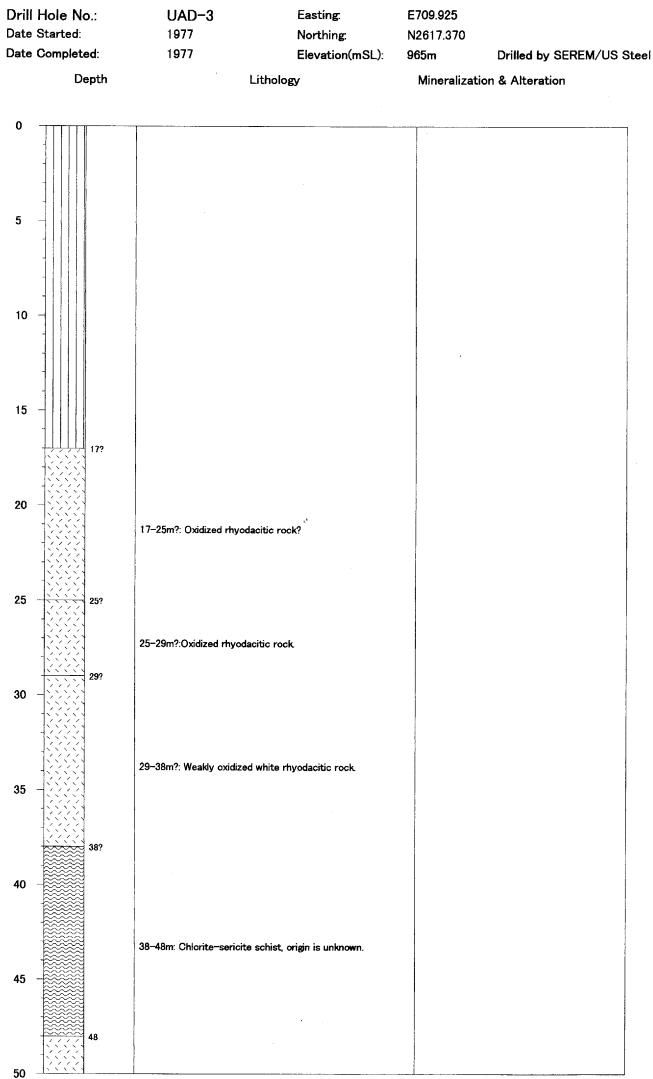
Appendix 2-4 Results of X-ray Diffraction Analysis (Outcrop and Core Samples)

Hematite		l		4	4		4			
Chalcopyrite	4									
Pyrite	4	4								
၂အ၊င	0					1				
Epidote			0							
Plagioclase										
Sericite				4		4			4	Δ
Chlorite	٩	4	⊲			4			⊲	4
Calcite	0	0	⊲			4				
Tremolite			0							
Guartz	4	0	⊲	0	0	0	0	Ø	0	0
Rock Name	112.9 Chloritized rock	114.5 Chloritized rock	Strongly epidotized andesitic rock	Silicified dacitic rock with hematite	Silicified and clayey dacitic rock with hematite	Carbonatized rhyodacitic rock	Ferruginous rhyodacitic rock	Silicified rock with hematite, jasper?	Strongly silicified dacitic rock with hematite	Rhyodacitic rock with hematite
Depth(m)	112.9	114.5						•		
Sample No.	112X	114X	K0020801	K0021402	K0021403	K0020602	K0020601	K0020504	K0022401	K0022408
Localities (Drill Hole No.)	Umm ad	Damar South UAU-4	West of Umm ad Damar South Prospect	West of J-18 Anomaly	West of J-18 Anomaly	North of MJSU-7	Northeast of MJSU-7	North of Jabal Sujarah	North of M-27 Anomaly	J-18 Anomaly

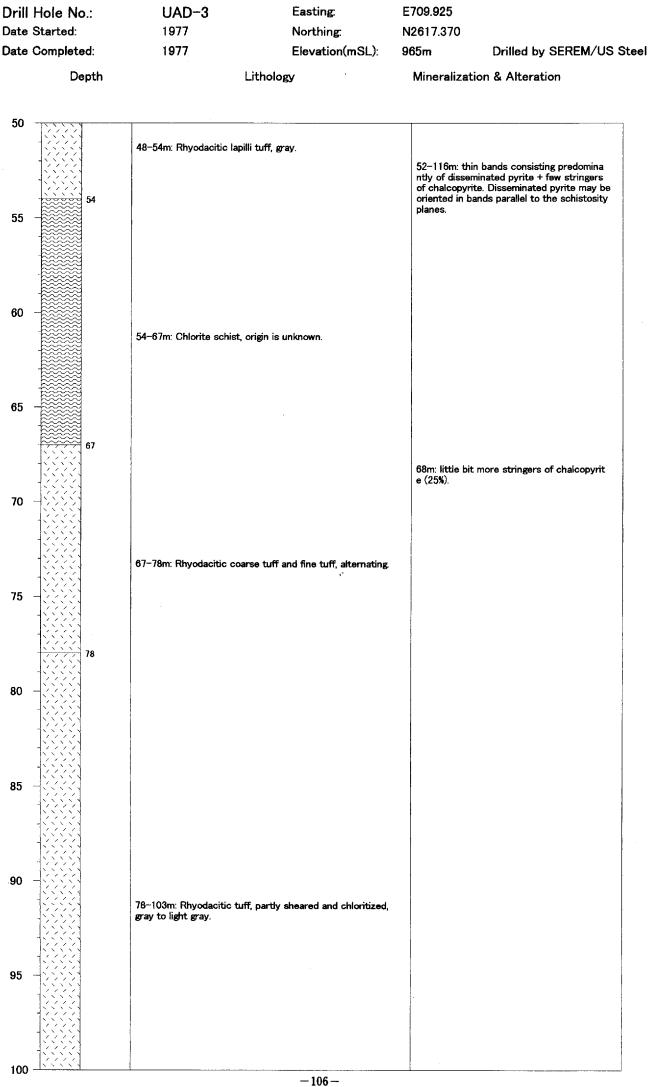
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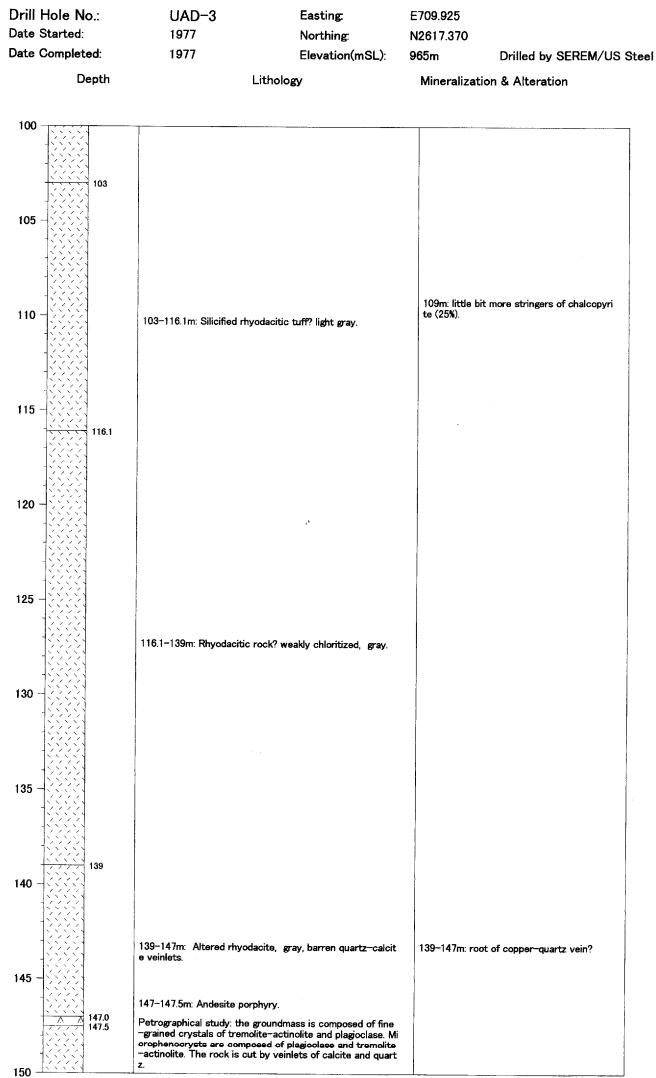
Appendix 2-5 Geological Logs of UAD-3, UAD-4, UAD-6 and UAD-10

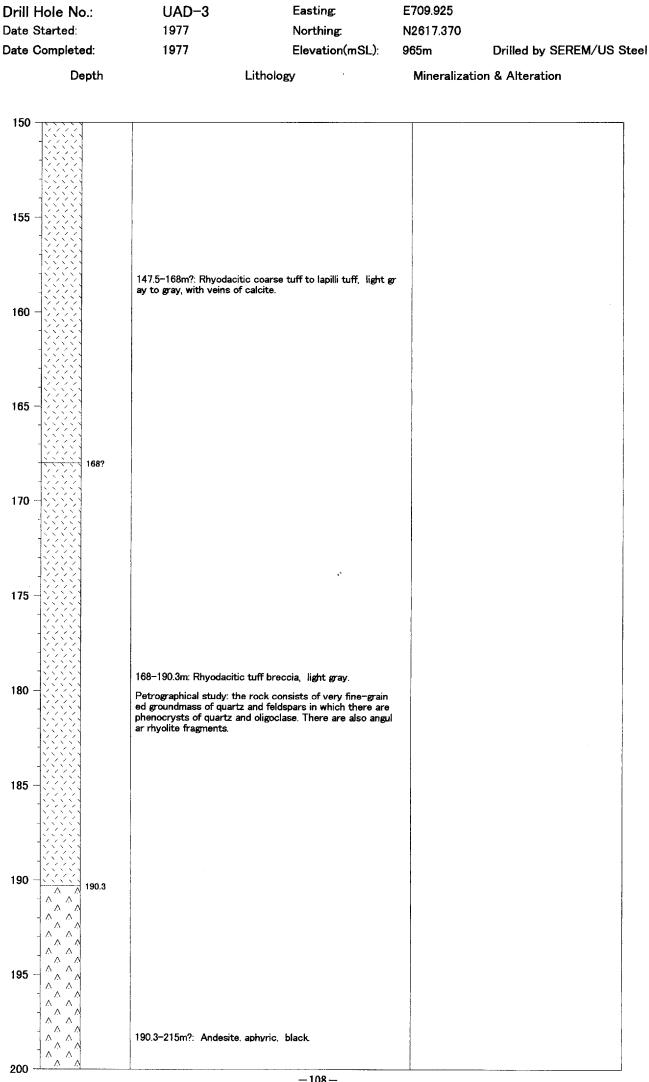
e.



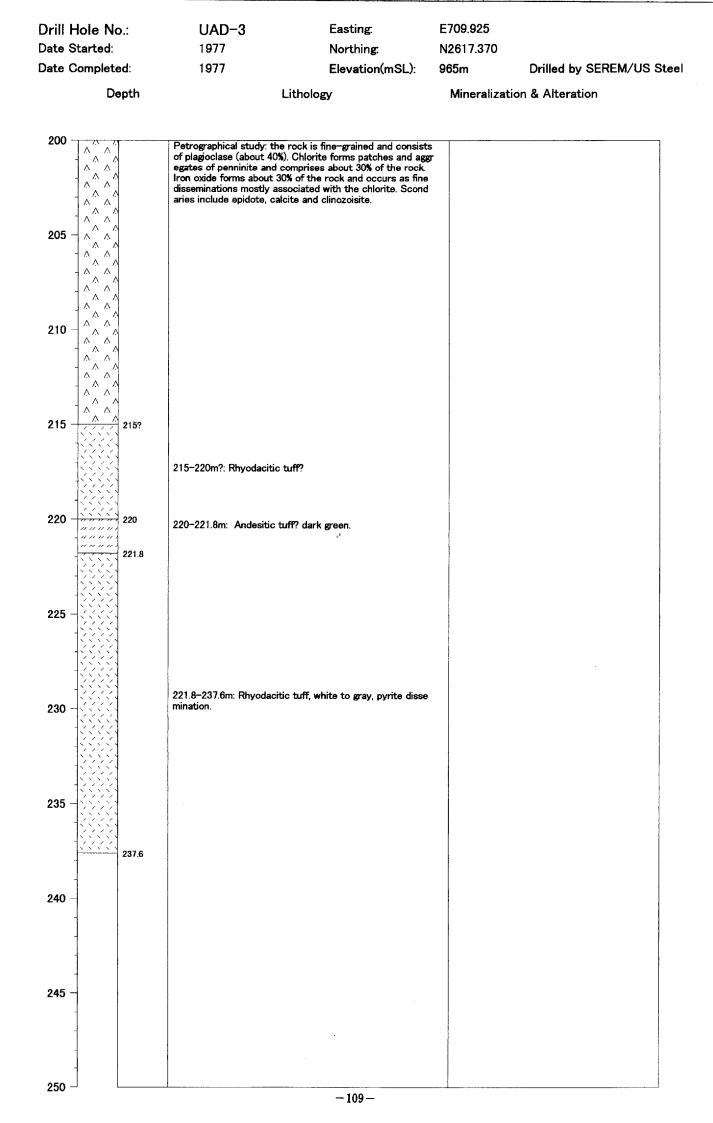
-105 -

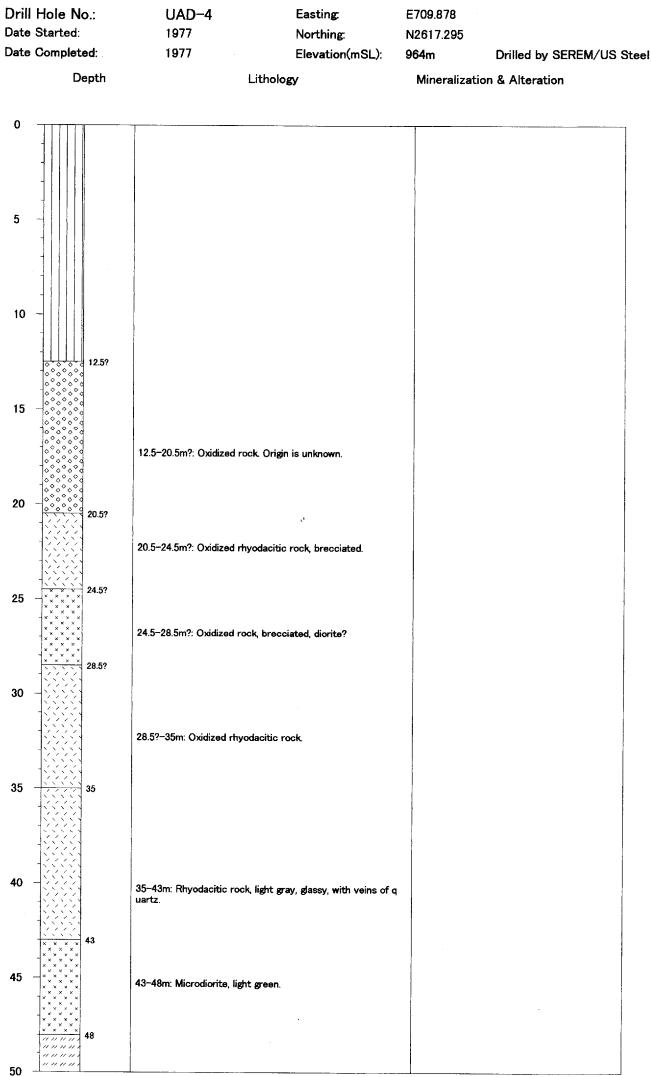






-108-



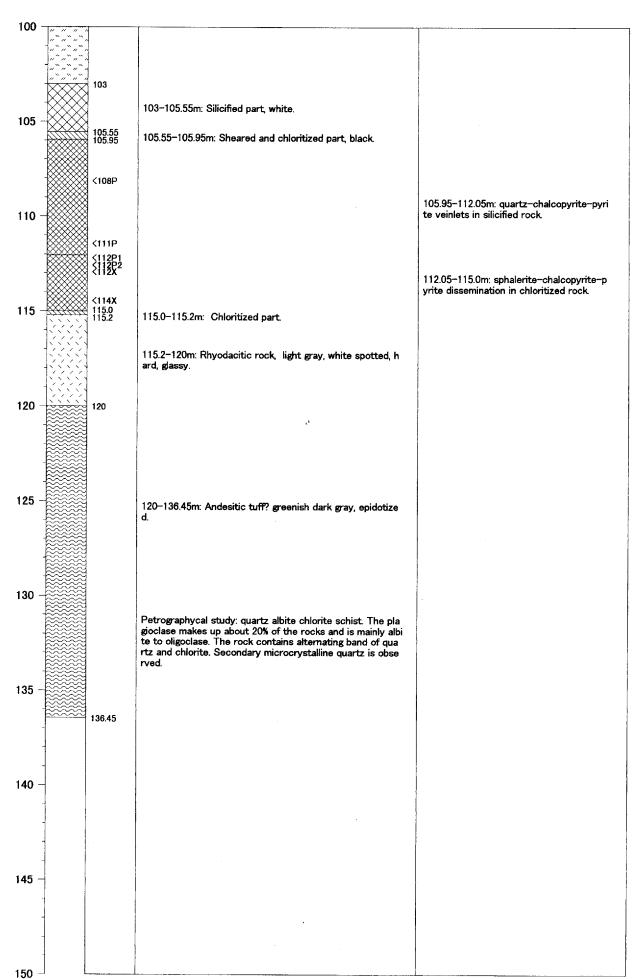


-111 -

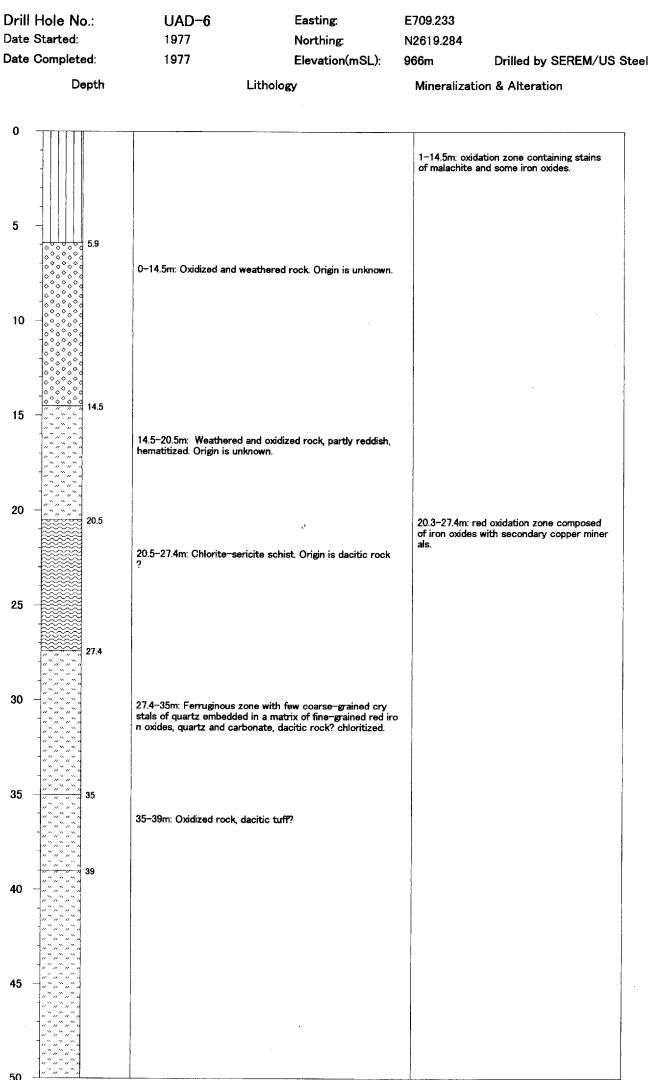
Drill Hole No.: Date Started:	UAD-4 1977	Easting: Northing:	E709.878 N2617.295	
Date Completed:	1977	Elevation(mSL):	964m	Drilled by SEREM/US Steel
Depth	Li	thology	Mineralizatio	n & Alteration

0			
·		48-75m: Andesitic tuff, greenish gray.	
	1111111		
	11 11 11 11 1	Petrographycal study: the rock shows development of fine	
		-grained chlorite, sericite, epidote and tremolite-actinolite	
	11 11 11 11	There are fragments composed mostly of glassy material.	
	1.1.1.1.1.		
	11 11 11 11		
5			
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	1111111		
	11 11 11 11 11		
	11 11 11 11		
)	- 11 11 11 11 1		
	10 10 10 10 1		
	1111111		
	11 11 11 11 1		
	11 11 11 11 1		
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	11 11 11 11 1		
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	11 11 11 11 1		
	11/11/11/1		
	11 11 11 11		
	1 11 11 11		
	11 11 11 11 1		
	1111111	e e	
	a a a a a		
5 ·	75		
	-2222	75 01 Em. Disconducibie? much white the light energy transmission	
		75-81.5m: Rhyodacitic? rock, white to light gray, traversed by numerous quartz veins.	
	1/2/2	by numerous quartz veins.	
) -	コンシンショー		
	81.5		
	<i>\″,∾″,</i> ∾″,∾∬		
]"""""""		
-			
	11 11 11 11	81.5-90.7m: Dacitic? tuff, greenish gray.	
	<u>_</u> /~``^``^		
	<i>"""""</i> """		
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	" " " " " "		
	1, *, *, *, *,		
] « » « » « » «		
	" <u>"</u> """		
	90.7		
	" <i>"</i> """""		
	1		
	<u>"</u> """"""		
	7″``″``″``^		
-		90.7-103m: Dacitic? tuff, gray, weakly chloritized.	
-			
-	TE E M M		
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Drill Hole No.:	UAD-4	Easting.	E709.878	
Date Started:	1977	Northing:	N2617.295	
Date Completed:	1977	Elevation(mSL):	964m	Drilled by SEREM/US Steel
Depth		Lithology	Mineralizat	ion & Alteration



-113-



Drill Hole No.:	UAD-6	Easting:	E709.233	
Date Started:	1977	Northing:	N2619.284	
Date Completed:	1977	Elevation(mSL):	966m	Drilled by SEREM/US Steel
Depth	Litho	logy	Mineralizatio	n & Alteration

- 0				
50 -			39-64m: Chloritized and brecciated dacitic rock, green, pa	
	-"`"""""		rtly hematitized	
	<i>""</i> """"»»»			
	- <i>"" "" "" "</i> " "			
55 -	"""""			
	<i>"""""""</i>			
	11 11 11 11 11			
	<i>"""""</i>			
	- <i></i>			
60 -	<i>"""""""</i> ""			
	"" " " " " " " " " "			
		24		
	" <i>"</i> """""	54		
65 -				
	- <i>"" "" "</i> " "			
	<u>, , , , , , , , , , , , , , , , , , , </u>			
	<i>"""</i> """"""			
70 -			64–76m: Moderately chloritized, dacitic rock, greenish gra	
	<i></i>		y, brecciated, with quartz veins.	
	",",",","			
			, ¹	
75 -				
10 -	""""""""""""""""""""""""""""""""""""""			
		76		
	- V V V V V - V V V V V V - V V V V V V			
	v v v v v			

30 -				80–99.2m: local concentration of pyrite an
	- V V V V V - V V V V V			80-99.2m: local concentration of pyrite an d chalcopyrite with some secondary carbo
	<u> </u>			nates (calcite). The mineralization is of the stringer type and contains minor amount of
	V V V V V V V V V V			magnetite.
	- V V V V V V V V V V			
	<u> </u>			
15 -	V V V V V V V V V V			
	<u><u>v</u>vvvv</u>		76-98m: Porphyritic dacite.	
	<u> </u>			
	[™] ***** *****			
0 ~	- V V V V V V V V V V			
	V V V V V V V V V V			
	***** *****			
	***** *****			
	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>			
5 -				
-				
	V V V V V V V V			
-	<u><u>v</u>vvvv</u>	8.0		
			98–100m: Chloritized rock.	98-100m: interval for chemical analysis. py rite-chalcopyrite dissemination and veinlet
-		000		
- 00	MAXAAAAAA	(99P 00.0		S.

Drill Hole No.:	UAD-6	Easting:	E709.233	
Date Started:	1977	Northing:	N2619.284	
Date Completed:	1977	Elevation(mSL)	966m	Drilled by SEREM/US Steel
Depth		Lithology	Mineralizatio	n & Alteration

100				
100 -	****		100-104m: Porphyritic dacite? greenish gray.	
	- <u>v</u> v v v v v v v v v			
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
	00000	r		
		104		
105 -		8		
100				
			104–113m: Altered zone composed mainly of chlorite and	
			quartz.	
				104–113m: interval for chemical analysis, p
		<k903030< td=""><td></td><td>yrite-chalcopyrite dissemination and veinle</td></k903030<>		yrite-chalcopyrite dissemination and veinle
10 -		1(109.1m)		ts.
110 -				
		<111P		
		113		
	v v v v v			
15	* * * * * * * * * * * *			
15 -	- * * * * * * * * * * * *			
	V V V V V			
	_ V V V V V V V V V V V			
	v v v v v v v v v v			
••	*****			
20 -	 ^v v v v v		113-130m: Porphyritic dacite, greenish gray, size of plago	
	¹		clase 2-5mm. Maific minerals are chloritized.	
	<u> </u>			
	v v v v v			
	- * * * * * * - * * * * *			
	<u> </u>			
25 -	 			
	- v v v v v			
	V V V V V V V V V V			

20	\	100		
30 -	<u> </u>	130	130–135m: Porphyritic dacite, size of plagioclase 2–5mm,	
			partly contains quartz-eye.	
	<u> </u>			
	V V V V V V V V V V		Petrograhical study: meta-dacite porphyry composed of c	
	***** ****		hlorite and sericite, and small crystal of plagioclase. There are phenocrysts of plagioclase and quartz. The phenocryst	
-	<u> </u>		s of plagioclase are partly altered to sericite. The size of p	
9E	***** ****	4.95	henocrysts may reach up to 1mm in diameter.	
35 -		135		

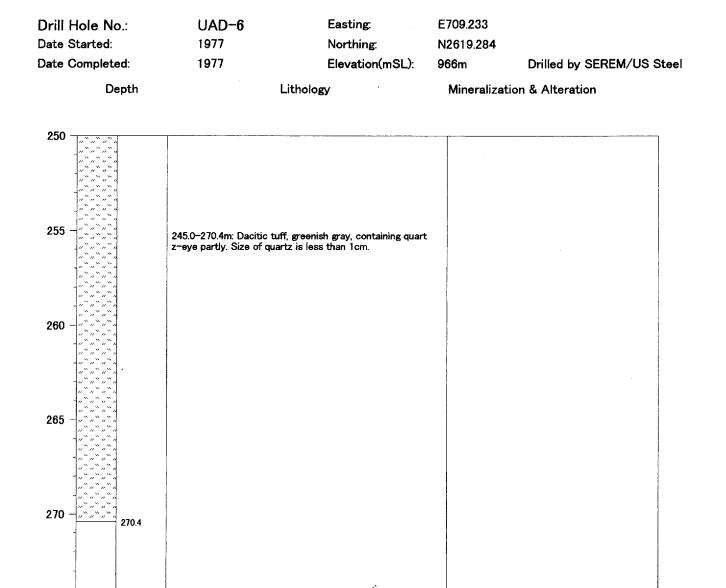
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			135–142.3m: Dacite, greenish gray.	}
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-	*****)
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-	V V V V V	142.3		142.3-186m: local dissemination of pyrite (
-	****			50%).
-				
45				
45 -] v v v v v [142.3–152.53m: Dacite, greenish gray, quartz~eye. Size of	
			quartz is 5-8mm in diameter.	

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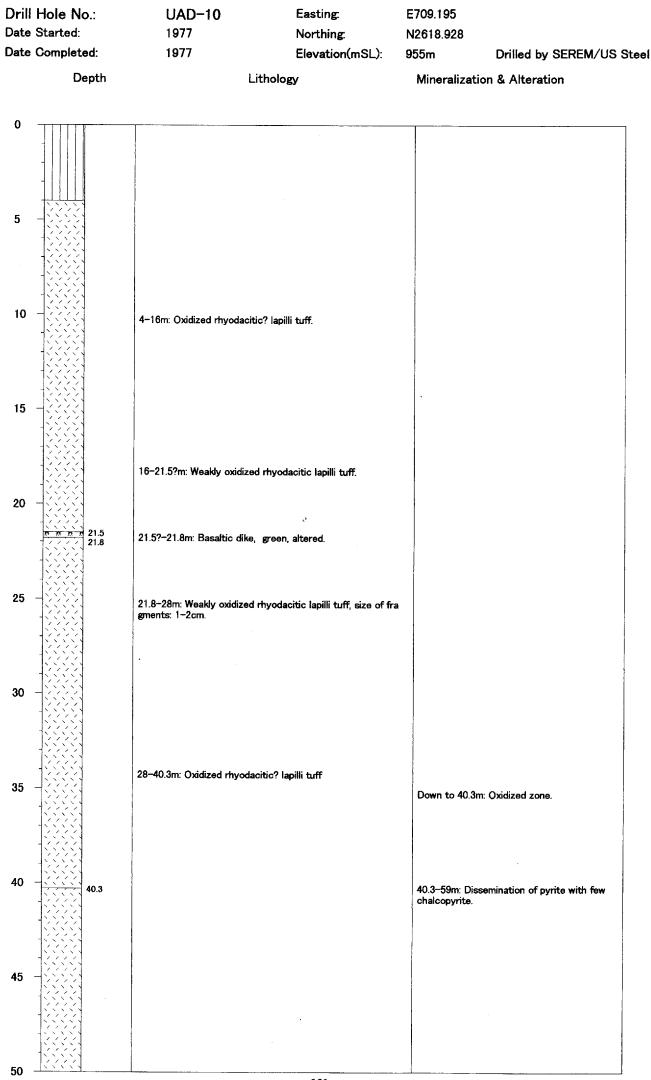
rill Hole N te Started		UAD-6 1977	Eastir North		E709.233 N2619.284	
te Comple		1977		tion(mSL):	966m	Drilled by SEREM/US Ste
•	Depth		ithology			on & Alteration
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	V					
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- V V V V V V V V						
60 - ****	v	152.53-197.1m: Porphyriti	o quartz-ava da	ito lava? moo		
V V V V V V V V	Ý.	nish gray.	∼ quaitz∵aya (Ja)	ALE, IGVA: BIEE		
v v v v v v v v	Ϋ́					
	Ŷ	Previous petrographical s	tudy: Rock is con	nposed of fine-g	.	
- vvvv	Ý	rained quartz and feldspare ered to clay minerals, mai	rs that are partly	to completely al	lt	
	Ý.	ved in the rock are compo	osed of chlorite, a	pidote and opa		
AF	v v	que iron oxides, and pyrite	Э.			
- v v v v	v					
- * * * * * * * * *	V.					
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Depth			Lithology	Mineralization & Alteration	
	Date Completed:	1977	Elevation(mSL):	966m	Drilled by SEREM/US Steel
	Date Started:	1 977	Northing:	N2619.284	
	Drill Hole No.:	UAD-6	Easting:	E709.233	

)0 -	V V V V V		197.1–212.54m: Porphyritic dacite, greenish gray, chloritiz ed and epidotized. Size of plagioclase is 2–8mm in diameter	
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	11 11 11 11 11 11 11 11 11 11 11		212.54-227.70m: Dacite? greenish gray.	
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_		227.70		
-	<i>"`"`"</i>			
0 -			207 70-227 OFm Desition to ff amount of a state of a	
	<i>"</i> `""		227.70-237.05m: Dacitic tuff, greenish gray, chloritized, c ontaining angular silic fragments (size <1cm).	
-	<i>""""</i> "			
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-	<i>"</i> ", ", ", "			
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5 -	""""""""""""""""""""""""""""""""""""""			
-	<i>""""</i> """			
-	innin in	237.05		237.05-239.75m: Interval for chemical anal
-	(IIIIIA)			ysis.
			237.05-239.75m: Chloritized part.	-
-				
0		239.75	239.75-242.35m: Dacitic tuff.	
	<i></i>		209.1J=242.00m, Dacrae Witt.	
-				
-	··· ·· ·· ··	242.35		
_	(IIIII)	272.03		
		<243P	242.35-245.0m: Chloritized part.	242.35-245.0m: Interval for chemical analy
-				sis. Pyrite-chalcopyrite dissemination and einlets.
5 -		245.0		
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Drill Hole No.:	UAD-10	Easting:	E709.195	
Date Started:	1977	Northing:	N2618.928	
Date Completed:	1977	Elevation(mSL):	955m	Drilled by SEREM/US Steel
Depth		Lithology	Mineralizatio	n & Alteration

