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Aberfoyle Exploration Pty Ltd *SOPHIA*

(Incorporated in Victoria)

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RAO:CR

14 March 1985

The Director of Mines
Department of Mines
PO Box 56
ROSNY PARK Tas 7018

Dear Sir

EXPLORATION LICENCE 2/70 MACKINTOSH - PROGRESS REPORT
FOR QUARTER TO 5 MARCH 1985

MACKINTOSH WEST

HELLYER PROSPECT

AMG REFERENCE POINTS ADDED

Drilling

The Hellyer diamond drilling program was suspended on November 13 on the completion of the 50 metre pattern between 10,300N and 10,950N. All drill holes were capped except HL5, 10 & 35 which required survey assistance to locate the collars. Revised diamond drill summary logs are attached. (Refer attachment II)

Drilling to test for northern extensions to the Hellyer mineralisation is expected to commence in mid March following compilation of geological and geophysical data.

Development drilling of the horizontal portal cover hole using a diesel IM37 rig, will commence in early March after a face has been prepared at the portal site.

Assaying

Preliminary assays for all massive base metal sulphides were completed (refer to attachment I). Check assaying is in progress. Cutting and assaying of selected stringer zone is in progress.

Ore Resources

Ore resource assessment is underway, however a preliminary estimate using simple geometric and arithmetic methods indicated 15 million tonnes grading 0.38% Cu, 6.9% Pb, 13.4% Zn, 166 g/t Ag, 2.3 g/t Au, 2.8% Ba, 1% As between 10,275N and 10,975N.

OPEN FILE

MICROFILMED

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D. M.	A.O.	C.G.	E.O.	...
19 MAR 1985				REGISTERED
DEPT. OF MINES				E & IL
No. 2785/85				

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Calculation of variograms and stratigraphic modelling of 5m x 5m x 20m blocks (6,500 in total) between 10,290N and 10,920N have been completed. Kriging has commenced.

Geology

The access road reached the portal site near the Southwell River. Preliminary mapping of the access road was completed. The lower road section is dominated by rhyolitic lavas and volcanics with minor interbeds of tuffaceous shale, black shale and sandstone. Mapping will be finalised when the road is surveyed.

Geochemistry

Core grind samples from Hellyer hangingwall on 10,900N were despatched for full silicate and trace element analyses. The samples represent the major alteration variants within these units. Some samples will also be analysed for rare earth elements.

Geophysics

Downhole SIROTEM surveys were undertaken in drill holes HL45 and 62 to assist identification of ore zone extensions. The equipment was unable to be placed down HL69 due to failure of the PVC casing. Interpretation of the results is in progress.

MACKINTOSH EL2/70

Drilling

Planning for a resumption of exploratory drilling in the Mackintosh - Que River area in mid March is well advanced.

Geology

Detailed mapping continued in the area between Que River and Hellyer. Mapping of the Hellyer adit access road in the Switchback area revealed more barite and base metal sulphide fragments in volcanics. These occur at the position previously interpreted to be laterally equivalent to the Hellyer ore body. The various units have been channel sampled and assays including some ICP32 element scans are awaited.

The poorly exposed area between D Zone and the southern end of Hellyer was trenched at 50m intervals along lines 5,600E and 9,600N. The up-dip surface expression of the interpreted Hellyer ore position was confirmed by mapping and sampled.

Detailed mapping between Que River and the C Zone, and reconnaissance east of the C Zone has further defined this prospective position.

Geochemistry

Chip sample traverses were undertaken along the portal access road, power line clearings and across Hellyer. Analyses will include chromium to help discriminate a particular basalt, which appears to be a feature of the Hellyer hangingwall.

Development of a computer data base of all old and new soil geochemical results and geology is well advanced.

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Geophysics

The UTEM survey of 24 line kilometres was completed on the Mackintosh Licence covering the shale - volcanic contact. Data interpretation is in progress. SIROTEM surveys of drill holes HL2 (A Zone) and DAL (D Zone) are in progress.

Research

Lead isotope ratios of massive sulphide fragments from the C Zone outcrop on the portal road have a similar signature to the Hellyer mineralisation. This confirms the volcanogenic nature and age of the C Zone mineralisation and the validity of the Hellyer Ore Position hypothesis.

Tenure

Exploration licence 2/70 (Mackintosh) was renewed until December 30, 1984 in a reduced form (125 sq kms) to comply with Department of Mines conditions.

EXPENDITURE for the first quarter 1985 was	\$ 87,103	EL 2/70
	\$162,599	Hellyer
	<u>\$249,702</u>	Total

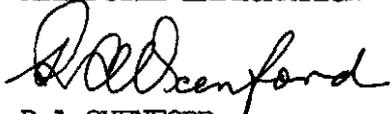
Distribution of expenditure is as per copies of the computer print outs attached.

MACKINTOSH EAST JOINT VENTURE

Report and expenditure statement to be submitted by Geopeko/Amoco. Mackintosh East now occupies 35 sq kms, reduced from 58 sq kms.

Attachment I Hellyer Drilling - Assay Table Que River-Hellyer Summary Plan
Attachment II Revised Diamond Drill Summary Logs Plate MAC81

Yours faithfully
ABERFOYLE EXPLORATION PTY LTD



R A OXENFORD
Exploration Services Superintendent

Enc

cc J R Sise - Burnie

217004

AMG REFERENCE POINTS ADDED

Mackintosh E.L.



HIGHWAY

UTEM Coverage 1985

HELLYER PROSPECT

1985

9400N

QUE RIVER MINE

AMG
391800E
5393700N

7400N

UTEM Coverage 1983

MT. CHARTER PROSPECT

1985

AMG
389800E
5391400N

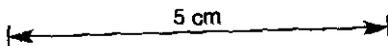
5400N



Hatfield E.L.

UTEM Coverage 1984

A..... UTEM ANOMALY



Aberfoyle Exploration Pty Ltd

Drawn:	E.T.E.
Traced:	R.J.E.
Checked:	
Revised by:	RJE Date: 5/84

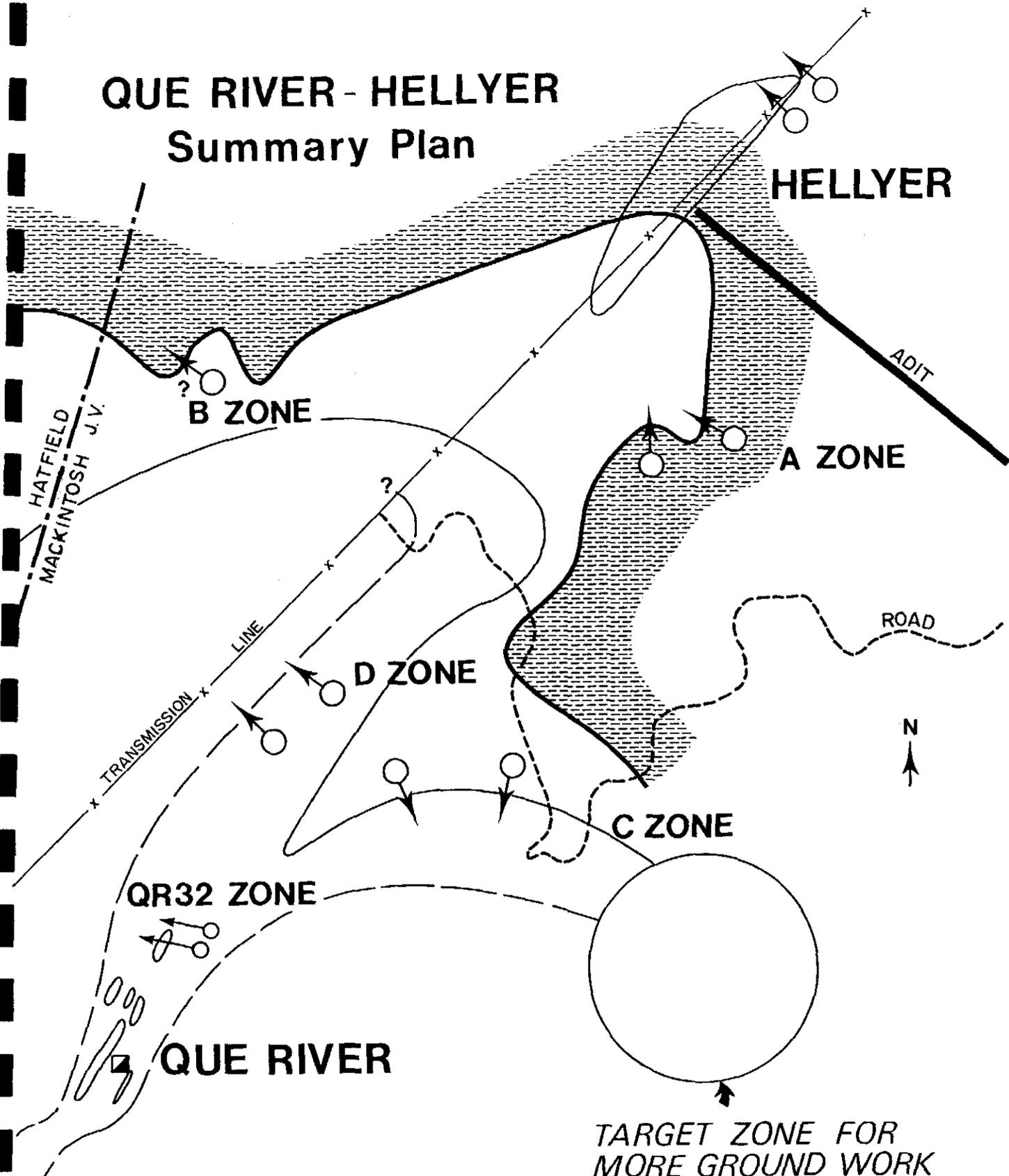
NORTH WEST TASMANIA
 MACKINTOSH - HATFIELD
 UTEM SUMMARY PLAN

Location code:	K55/6/44
Date:	April, 1984
Scale:	1:50,000
Plate No:	Mac. 81

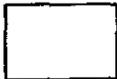
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QUE RIVER - HELLYER Summary Plan



 Younger cover rocks

 Volcanics

 Proposed Holes

0 500 1000 metres

5 cm

PROJECT COST REPORT
AS AT PERIOD : 3 1985

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===== CODE =====	===== ACCOUNT DETAIL =====	===== PAYMENTS 1ST QUARTER =====	===== ABERFOYLE YTD =====
MACKINTOSH EL 2/70			
1401	GEOLOGY - SALARIES	14830.00	14830.00
1402	GEOLOGY - WAGES	132.00	132.00
1404	GEOLOGY - MATERIALS	61.10	61.10
1405	GEOLOGY - TRAVELLING	311.90	311.90
1406	GEOLOGY - FUEL	404.99	404.99
1409	GEOLOGY - HIRING COSTS	1121.70	1121.70
1410	GEOLOGY - DISTRICT ACCOMMODATION	1181.17	1181.17
1411	GEOLOGY - FREIGHT	73.94	73.94
1412	GEOLOGY - VEHICLE COSTS	1824.62	1824.62
1413	GEOLOGY - EQUIPMENT COSTS	40.00	40.00
TOTAL GEOLOGY		19981.42	19981.42
1703	SURVEY - CONTRACTORS	16400.55	16400.55
1704	SURVEY - MATERIALS	72.50	72.50
TOTAL SURVEY		16473.05	16473.05
2001	GEOPHYSICS - SALARIES	7119.00	7119.00
2002	GEOPHYSICS - WAGES	4327.00	4327.00
2003	GEOPHYSICS - CONTRACTORS	15292.56	15292.56
2004	GEOPHYSICS - MATERIALS	197.24	197.24
2005	GEOPHYSICS - TRAVELLING	198.85	198.85
2010	GEOPHYSICS - DISTRICT ACCOMMODATION	221.55	221.55
2011	GEOPHYSICS - FREIGHT	16.35	16.35
TOTAL GEOPHYSICS		27370.55	27370.55
2601	GEOCHEMISTRY - SALARIES	1050.00	1050.00
2609	GEOCHEMISTRY - HIRING COSTS	204.75	204.75
2611	GEOCHEMISTRY - FREIGHT	46.62	46.62
TOTAL GEOCHEMISTRY		1301.37	1301.37
3001	TRENCHING - SALARIES	180.00	180.00
3003	TRENCHING - CONTRACTORS	(800.00)	(800.00)
TOTAL TRENCHING		(620.00)	(620.00)
3202	TARGET DRILLING - WAGES	1310.00	1310.00
3203	TARGET DRILLING - CONTRACTORS	331.00	331.00
3204	TARGET DRILLING - MATERIALS	868.85	868.85

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PROJECT COST REPORT
 AS AT PERIOD : 3 1985

==== CODE ====	===== ACCOUNT DETAIL =====	===== PAYMENTS 1ST QUARTER =====	===== ABERFOYLE YTD =====
3206	TARGET DRILLING - FUEL	76.64	76.64
3211	TARGET DRILLING - FREIGHT	99.80	99.80
3221	TARGET DRILLING - ASSAYS	449.50	449.50
TOTAL TARGET DRILLING		3135.79	3135.79
4803	ACCESS - CONTRACTORS	235.00	235.00
TOTAL ACCESS		235.00	235.00
6101	TENURE - SALARIES	313.00	313.00
6108	TENURE - TENEMENT COSTS	2350.00	2350.00
TOTAL TENURE		2663.00	2663.00
6201	LEGAL - SALARIES	960.00	960.00
TOTAL LEGAL		960.00	960.00
7001	OTHER SERVICES - SALARIES	1997.00	1997.00
7004	OTHER SERVICES - MATERIALS	495.00	495.00
7007	OTHER SERVICES - COMMUNICATIONS	1749.73	1749.73
TOTAL OTHER SERVICES		4241.73	4241.73
9070	INDIRECT COSTS - ADMINISTRATION	11361.28	11361.28
TOTAL INDIRECT COSTS		11361.28	11361.28
**TOTAL MACKINTOSH EL 2/70		87103.19	87103.19

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PROJECT COST REPORT
AS AT PERIOD : 3 1985
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==== CODE ====	=====	=====	=====
	ACCOUNT DETAIL =====	PAYMENTS 1ST QUARTER =====	ABERFOYLE YTD =====
HELLYER			
1401	GEOLOGY - SALARIES	22630.00	22630.00
1403	GEOLOGY - CONTRACTORS	13492.48	13492.48
1404	GEOLOGY - MATERIALS	308.32	308.32
1405	GEOLOGY - TRAVELLING	448.60	448.60
1406	GEOLOGY - FUEL	2088.31	2088.31
1407	GEOLOGY - COMMUNICATIONS	1765.24	1765.24
1409	GEOLOGY - HIRING COSTS	754.12	754.12
1410	GEOLOGY - DISTRICT ACCOMMODATION	6012.10	6012.10
1411	GEOLOGY - FREIGHT	448.49	448.49
1412	GEOLOGY - VEHICLE COSTS	2353.66	2353.66
1413	GEOLOGY - EQUIPMENT COSTS	33.34	33.34
TOTAL GEOLOGY		50334.66	50334.66
1704	SURVEY - MATERIALS	(1466.42)	(1466.42)
TOTAL SURVEY		(1466.42)	(1466.42)
2001	GEOPHYSICS - SALARIES	3857.00	3857.00
2002	GEOPHYSICS - WAGES	340.00	340.00
2003	GEOPHYSICS - CONTRACTORS	7932.70	7932.70
2005	GEOPHYSICS - TRAVELLING	196.85	196.85
2010	GEOPHYSICS - DISTRICT ACCOMMODATION	96.48	96.48
2011	GEOPHYSICS - FREIGHT	227.00	227.00
TOTAL GEOPHYSICS		12650.03	12650.03
2621	GEOCHEMISTRY - ASSAYS	(579.50)	(579.50)
TOTAL GEOCHEMISTRY		(579.50)	(579.50)
3104	INFORMATION DRILLING - MATERIALS	31.95	31.95
TOTAL INFORMATION DRILLING		31.95	31.95
3201	TARGET DRILLING - SALARIES	3012.00	3012.00
3202	TARGET DRILLING - WAGES	11194.00	11194.00
3203	TARGET DRILLING - CONTRACTORS	(3052.02)	(3052.02)
3204	TARGET DRILLING - MATERIALS	1869.43	1869.43
3206	TARGET DRILLING - FUEL	3006.90	3006.90
3209	TARGET DRILLING - HIRING COSTS	1263.50	1263.50
3210	TARGET DRILLING - DISTRICT ACCOMMOD	1295.82	1295.82

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PROJECT COST REPORT
AS AT PERIOD : 3 1985

==== CODE ====	=====	=====	=====
	ACCOUNT DETAIL	PAYMENTS	ABERFOYLE
		1ST QUARTER	YTD
		=====	=====
3211	TARGET DRILLING - FREIGHT	113.16	113.16
3213	TARGET DRILLING - EQUIPMENT COSTS	1146.37	1146.37
3221	TARGET DRILLING - ASSAYS	34303.31	34303.31
	TOTAL TARGET DRILLING	54152.47	54152.47
4803	ACCESS - CONTRACTORS	353.00	353.00
	TOTAL ACCESS	353.00	353.00
6101	TENURE - SALARIES	150.00	150.00
	TOTAL TENURE	150.00	150.00
6201	LEGAL - SALARIES	420.00	420.00
	TOTAL LEGAL	420.00	420.00
7001	OTHER SERVICES - SALARIES	11760.00	11760.00
7002	OTHER SERVICES - WAGES	762.00	762.00
7004	OTHER SERVICES - MATERIALS	3870.20	3870.20
7005	OTHER SERVICES - TRAVELLING	250.20	250.20
7007	OTHER SERVICES - COMMUNICATIONS	691.12	691.12
7009	OTHER SERVICES - HIRING COSTS	7418.32	7418.32
7011	OTHER SERVICES - FREIGHT	44.40	44.40
7012	OTHER SERVICES - VEHICLE COSTS	291.46	291.46
	TOTAL OTHER SERVICES	25087.70	25087.70
9070	INDIRECT COSTS - ADMINISTRATION	21465.03	21465.03
	TOTAL INDIRECT COSTS	21465.03	21465.03
	**TOTAL HELLYER	162598.92	162598.92

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ATTACHMENT I
HELLYER PROSPECT
ASSAY SUMMARY

009

HELLYER DRILLING

010

HOLE NO	FROM	TO	I WIDTH	INTERSECTION TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 1				NIL								
HL 2				NIL								
HL 3	200.4	223.5	23.1	BMS	4.61	0.25	4.53	12.98	162	1.89	0.61	
HL 4				NIL								
HL 4A				BARREN								
HL 5	289.75	328.8	39.05	TETSU/BA/BMS	4.46	0.27	5.87	9.19	95	3.55	4.91	
	289.75	292.70	2.95	TETSU	3.45	0.08	1.14	1.44	154	3.1	1.83	
	292.70	299.70	7.00	BA	4.00	0.13	1.77	2.30	100	2.96	21.65	
	299.70	328.80	29.1	BMS	4.68	0.31	7.07	11.18	90	3.71	1.70	
HL 6	395.93	399.75	3.82	BARREN STRINGER	4.60	4.94	0.12	0.04	39	0.26	0.1	
HL 7	260.88	303.0	42.12	TETSU/BA/BMS	4.46	0.17	3.96	8.01	124	3.26	16.2	
	260.88	263.0	2.12	BA	3.85	0.03	0.50	0.69	23	0.59	23.58	
	263.0	268.0	5.0	TETSU/BA	4.32	0.14	5.02	7.36	230	2.21	21.36	
	268.0	276.2	8.20	BA	4.37	0.09	0.90	1.28	34	1.23	29.79	
	276.2	284.5	8.30	BA/BMS	4.52	0.35	4.44	7.18	122	3.43	19.86	
	284.5	294.5	10.0	BMS	4.62	0.20	5.98	16.00	121	3.55	2.01	
	294.5	303.0	8.5	BA/BMS	4.56	0.11	4.04	7.40	177	5.75	12.48	
	276.2	303	26.8	BA/BMS	4.57	0.21	4.89	10.58	139	4.21	10.78	
HL 8				BARREN								
HL 9				BARREN								
HL 10				NIL								
HL 11				NIL								

Outlines and
Data Current at 14 FEB 1985

Authorised By
roy Pauls

011

HOLE NO	FROM	TO	I WIDTH	INTERSECTION TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 12	260.0	279.5	19.5	BMS	3.79	0.36	5.83	8.66	52	1.55	0.6	
	300.9	304.9	4.0	BMS	4.28	0.21	12.07	18.75	554	3.01	0.07	
	319.6	322.0	2.4	BMS	3.79	0.27	5.83	11.56	62	0.25	0.14	
HL 13	319.3	326.0	6.7	TETSU	3.78	1.02	1.89	4.11	48	0.6	0.35	
	337.0	338.84	1.84	BMS	3.89	0.30	5.11	7.63	28	0.49	0.52	
HL 14				BARREN								
HL 15				BARREN								
HL 16	243.4	254.2	10.80	BMS	4.26	0.14	7.43	11.89	209	1.82	0.07	
	243.4	250.78	7.38	BMS	4.68	0.18	9.17	15.01	262	2.31	0.02	
	250.78	253.35		WASTE								
	253.35	254.2	0.85	BMS	4.22	0.08	6.50	7.60	146	0.88	0.03	
HL 17				BARREN								
HL 18	273.9	293.90	20.0	BMS	4.30	0.40	7.74	13.23	214	3.08	0.05	
	293.9	323.20	29.30	BMS	3.18	0.12	2.07	3.31	6	0.04	0.04	
HL 19				BARREN								
HL 20				NIL								
HL 21				BARREN								

KGP/MELBOURNE/21/12/84

Outlines and
Data Current at 14 FEB 1985
Authorised By
TCJ Paul

217012

HOLE NO	FROM	TO	I WIDTH	INTERSECTION 'TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 22				BARREN								
HL 23				NIL								
HL 24	253.3	282.70	29.4	BMS	4.14	0.53	8.51	13.83	166	5.51	1.34	0.70
HL 25				NIL								
HL 26	252.9	253.3	0.4	BMS	4.18	0.11	6.00	11.70	65	0.38	0.25	0.09
HL 26A (Wedge)	252.85	253.25	0.4	BMS	4.37	0.11	12.60	14.60	70	0.27	0.19	0.07
HL 27	201.8	210.1	8.30	BMS/BA	4.50	0.36	6.78	15.41	219	2.06	10.65	0.71
	201.8	205.0	3.20	BA	4.42	0.32	2.80	4.18	120	1.11	26.50	0.18
	205.0	210.1	5.1	BMS	4.54	0.38	9.21	22.26	279	2.64	0.81	1.04
HL 28	266.05	342.0	75.95	BMS	4.51	0.22	6.58	14.88	209	1.66	0.12	2.28
HL 29	193.5	222.0	28.5	BMS/BA	4.39	0.26	5.32	10.45	140	3.89	8.70	1.36
	193.5	197.0	3.5	BA	4.10	0.22	2.18	3.71	98	1.39	27.40	0.18
	197.0	222.0	25.0	BMS	4.43	0.27	5.73	11.32	145	4.22	6.28	1.51
	267.5	283.5	16.00	STRINGER	3.95	4.98	1.19	1.12	37	0.44	0.92	0.12
HL 29A (Wedge)	193.25	224.8	31.55	BMS/BA	4.43	0.31	5.97	11.06	154	3.73	7.01	1.16
	193.25	198.0	4.75	BA	4.19	0.34	4.22	6.35	138	1.54	11.54	0.23
	198.0	224.8	26.80	BMS	4.48	0.31	6.26	11.84	157	4.09	3.73	1.31
HL 30				BARREN								
HL 31				BARREN								
HL 32	202.5	203.2	0.7	BA	3.97	0.18	1.10	1.60	175	4.42	30.7	0.02
	206.4	230.2	23.8	BMS	4.60	0.22	10.4	18.29	297	1.49	0.08	1.18

Outlines and
 Date Current at
 11 FEB 1988
 Authorised By
W. S. P. [Signature]

013

HOLE NO	FROM	TO	I WIDTH	INTERSECTION TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 32A (Wedge)	206.65	232.65	26.0	BMS	4.51	0.22	9.62	19.68	291	1.62	0.06	1.31
HL 33				BARREN								
HL 34	230.15	235.0	4.85	BMS/BA	4.44	0.40	11.24	16.81	279	2.22	9.0	0.48
	230.15	231.65	1.5	BA	4.25	0.23	3.15	4.05	90	1.13	26.8	0.11
	231.65	235.0	3.35	BMS	4.53	0.46	14.6	22.17	359	2.68	1.51	0.63
HL 35A	335.0	393.3	58.3	BMS/BA	4.58	0.37	8.44	17.48	221	1.48	0.43	0.87
	335.0	336.9	1.9	BA	3.28	0.28	3.72	5.25	218	1.57	15.0	0.04
	336.9	393.3	56.4	BMS	4.62	0.38	8.56	17.77	221	1.48	0.08	0.89
HL 36				BARREN								
HL 37	136.8	196.4	59.6	BMS/BA	4.53	0.59	9.59	13.54	121	2.69	4.51	0.28
	136.8	150.0	13.2	BA	4.33	0.31	6.25	9.06	258	2.93	13.79	0.21
	150.0	196.4	46.4	BMS	4.59	0.67	10.48	14.75	84	2.62	2.03	0.31
	285.5	289.5	4.0	BMS	3.72	0.36	5.08	9.26	457	3.36	1.05	2.64
HL 38	153.8	210.0	56.2	BMS/BA	4.48	0.62	6.14	19.19	161	3.02	4.37	1.13
	153.8	158.0	4.2	BA	4.07	0.14	1.53	2.73	109	3.08	30.4	0.15
	158.0	210.0	52.0	BMS	4.51	0.66	6.47	20.39	164	3.02	2.47	1.20
	210	224.1		STRINGER								
HL 38A (Wedge)	153.9	214.0	60.1	BMS/BA	4.59	0.45	5.83	15.0	156	2.60	4.75	0.86
	153.9	163.0	9.1	BA	4.26	0.65	5.37	8.54	176	2.81	28.55	0.15
	163.0	214.0	51.0	BMS	4.65	0.41	5.93	16.10	150	2.56	0.78	0.97
	214.0	218.0	4.0	STRINGER	3.88	0.14	4.26	7.70	52	1.02		1.12

Outlines and
Data Current at 1:02 FEB 1984

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205 Palms

217014

HOLE NO	FROM	TO	I WIDTH	INTERSECTION TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 39	180.0	238	58.0	BMS	4.63	0.28	3.51	9.57	89	1.39	0.11	0.78
	238.0	273.0	35.0	STRINGER	4.23	0.11	3.19	3.67	44	1.10	3.14	0.12
	307.5	332.9	25.4	BMS	4.27	1.04	3.60	5.89	56	0.95	1.33	0.14
HL 40	443.3	473.1	29.8	BMS	4.42	0.22	8.50	14.79	250	1.71	0.07	0.87
HL 41	219.4	228.4	9.0	BMS	4.54	0.21	4.94	14.05	137	1.23	0.29	0.76
HL 42	BARREN											
HL 43	140.8	160.4	19.6	BMS	4.74	0.23	10.42	18.80	346	4.22	4.58	0.99
HL 44	216.9	243.5	26.6	BA/BMS	4.43	0.23	8.00	14.36	256	2.91	12.35	0.65
	255.9	365.1	109.2	BMS/TETSU/BA	4.21	0.26	6.59	10.09	192	2.51	4.07	0.66
	255.9	267.2	11.3	BA	3.81	0.08	1.48	1.43	51	2.51	24.87	0.09
	268.3	314.0	45.7	TETSU/BMS	3.88	0.32	5.15	7.55	175	3.36	3.05	0.46
	314.0	365.1	51.10	BMS	4.61	0.25	8.68	13.72	234	1.90	1.07	0.93
HL 44A (Wedge)	217.4	241.6	24.2	BA/BMS	4.58	0.24	8.22	15.73	258	1.89	9.59	1.08
	258.7	362.0	103.3	BMS/BA/TETSU	4.25	0.23	5.23	7.72	201	2.08	7.28	0.72
	258.7	267.4	8.7	TETSU/BMS/BA	3.58	0.28	3.51	3.54	78	1.79	13.95	0.09
	267.4	300.8	33.4	TETSU	3.69	0.23	3.00	3.93	138	2.38	1.51	0.37
	300.8	316.6	15.8	BA	4.44	0.12	1.46	1.68	61	0.81	36.41	0.08
	316.6	362.0	45.4	BMS	4.73	0.26	8.00	12.47	301	2.37	0.12	1.22
HL 45	BARREN											

KGP/MELBOURNE/21/12/84

Outlines and
Data Current at 14 FEB 1985

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TC Palmer

217015

015

HOLE NO	FROM	TO	I WIDTH	INTERSECTION TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 46	237.6	265.6	28.0	BMS	4.71	0.26	3.97	7.59	65	1.08	0.33	0.14
	322.1	324.4	2.3	BMS	4.07	0.30	3.06	8.82	13	0.19	0.50	0.10
HL 46A (Wedge)	237.4	293.8	56.4	BMS	4.73	0.34	2.83	7.45	56	0.98	0.46	0.15
HL 46B	236.0	282.5	46.5	BMS	4.73	0.43	5.80	14.73	72	1.87	0.41	0.28
	316.2	325.7	9.5	BMS	3.46	0.32	4.27	6.92	67	0.29	0.24	0.24
	325.7	336.8	11.1	BMS	3.26	0.26	2.58	3.92	54	0.27	0.14	0.14
HL 47	240.9	270.1	29.2	BMS/BA	4.64	0.23	6.89	12.05	172	1.88	2.76	1.07
	240.9	243.65	2.75	BA	4.38	0.15	4.44	5.88	189	1.86	30.22	0.06
	243.35	270.1	26.45	BMS	4.67	0.24	7.13	12.65	170	1.88	0.09	1.17
HL 47A (Wedge)	240.9	270.0	29.1	BMS/BA	4.63	0.27	7.17	12.51	196	2.39	2.52	1.56
	240.9	243.35	2.45	BA	4.24	0.17	3.71	6.09	205	1.81	29.56	0.03
	243.35	270.1	26.65	BMS	4.66	0.28	7.46	13.04	195	2.44	0.26	1.69
HL 48	321.3	397.5	76.2	BMS	4.77	0.19	7.22	12.71	227	2.38	0.20	2.32
HL 49	BARREN											
HL 50	178.7	244.0	65.3	BMS	4.66	0.52	7.32	17.51	105	1.60	2.59	0.89
	303	357	54	BMS	4.72	0.51	7.34	17.88	205	3.62	0.07	1.15
HL 51	BARREN											
HL 52	251.4	260.4	9.0	BMS	3.87	0.51	5.81	9.22	250	1.99	0.21	2.45
HL 53	309.2	366.2	57.0	BMS	4.73	0.40	8.60	15.42	180	2.03	0.10	1.08

KGP/MELBOURNE/21/12/84

Outlines and
Data Current at 14 FEB 1985
Authorised By 205 Paul

217016

HOLE NO	FROM	TO	I WIDTH	INTERSECTION TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 54				NIL								
HL 54A				NIL								
HL 54B				BARREN								
HL 55				NIL								
HL 55A	259.5	322.2	62.7	BMS	4.82	0.54	6.48	12.87	144	2.05	0.32	1.35
HL 56	301.9	341.3	39.4	BMS	4.69	0.41	7.29	12.48	116	2.79	0.36	1.04
HL 57	176.6	215.5	38.9	TE/BA/BMS	4.40	0.54	10.19	15.17	175	2.93	9.09	0.30
	176.6	183.9	7.3	TE/BA/BMS	4.09	0.19	5.03	8.30	124	4.13	3.25	0.59
	183.9	215.5	31.6	BMS/BA	4.47	0.61	11.28	16.62	186	2.67	10.32	0.24
HL 58	394.4	447.8	53.4	BMS	4.70	0.24	9.48	17.64	227	2.25	0.04	1.26
HL 58A	398.2	455.65	57.45	BMS	4.74	0.42	10.80	19.00	174	2.04	0.04	0.79
HL 59				NIL								
HL 60				NIL								
HL 61	230.6	231.8	1.2	BMS	3.58	0.10	2.50	5.00	34	0.66	0.60	0.24
	318.3	329.0	10.7	BMS	4.73	0.56	10.64	18.70	116	1.80	0.07	0.30
	345.6	389.8	44.2	BMS	4.88	1.18	6.81	11.73	128	1.26	0.33	0.26
	389.8	392.8	3.0	STRINGER	4.35	0.44	5.93	10.23	93	1.35	0.10	0.48
HL 62				NIL								
HL 63	223.7	247.0	23.3	BMS/TETSU/BA	4.53	0.20	9.07	16.25	265	1.66	0.04	1.16
	223.7	225.4	1.7	TETSU	3.53	0.21	2.62	3.37	125	1.36	0.16	0.15
	225.4	247.0	21.6	BMS	4.61	0.20	9.45	17.03	295	1.68	0.04	1.22

Outlines and Data Current at 14 FEB 1985
 Authorised By *ccs Paul*

HELLYER DRILLING

011

HOLE NO	FROM	TO	I WIDTH	INTERSECTION TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 63A	222.50	249.35	26.85	BMS/TETSU	4.61	0.19	8.14	13.95	268	1.24	0.03	1.45
	222.5	223.6	1.1	TETSU	3.78	0.11	5.40	7.20	106	1.20	0.05	0.31
	223.6	249.35	25.75	BMS	4.64	0.20	8.23	14.19	274	1.24	0.03	1.49
HL 64	450.7	504.6	53.9	BMS	4.64	0.21	6.97	15.07	192	0.93	9.18	2.04
HL 65	240.4	241.3	0.9	BMS	3.93	0.17	6.95	11.00	173	0.70	0.75	0.11
HL 66				NIL								
HL 67				BARREN								
HL 68				BARREN								
HL 69				BARREN								
HL 70	223.95	306.7	82.75	BMS	4.73	0.36	4.31	12.96	116	2.38	5.58	1.06
HL 70A (Wedge)	224.2	309.5	85.3	BMS	4.70	0.34	4.66	13.71	125	2.54	1.11	1.41
HL 71				BARREN								
HL 72	197.05	265.5	68.45	BMS/BA	4.62	0.54	7.60	12.00	1000	2.54	10.82	0.24
	197.05	206.6	9.55	BA	4.26	0.19	2.92	5.20	880	2.59	33.40	1989.13
	206.6	265.6	58.9	BMS	4.68	0.59	8.29	13.00	102	2.53	7.49	0.25

KGP/MELBOURNE/14.2.85

Checked By

WCS Pave

217018

HELLYER DRILLING

101

HOLE NO	FROM	TO	I WIDTH	INTERSECTION TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 73	105.6	126.3	20.7	BMS	4.69	0.20	3.37	12.50	150	1.82	0.05	2.87
	131.7	140.8	9.1	BMS	4.74	0.47	0.78	5.15	107	1.69	0.03	0.40
	149.7	156.5	6.8	BMS	4.46	0.42	5.85	10.41	82	1.20	2.96	0.16
HL 74	97.6	101.6	4.0	BA	3.53	0.07	0.31	0.81	41	0.82	21.4	0.06
	102.8	106.1	3.3	BMS	3.51	0.08	0.19	2.31	64	0.28	0.52	0.50
HL 75	248.15	289.4	41.25	BA/BMS	4.54	0.34	10.04	17.43	311	1.28	1.24	1.73
	248.15	250.2	2.05	BA	3.86	0.11	1.56	2.00	132	1.11	27.4	0.08
	250.2	289.4	39.2	BMS	4.57	0.35	10.42	18.11	319	1.29	0.08	1.80
HL 76	76.2	93.2	17.0	BA/BMS	4.06	0.10	3.19	5.87	128	0.9	19.7	0.45
	76.2	85.9	9.7	BA	4.16	0.12	2.90	5.37	125	1.16	24.4	0.32
	85.9	88.5	2.6	BMS	4.27	0.18	7.45	13.31	271	0.28	5.38	0.71
	88.5	93.2	4.7	BA	3.75	0.03	1.19	2.34	45	0.71	18.1	0.56

KGP/MELBOURNE/14.2.85

Outlines and
Data Current at 14 FEB 1985

Authorised By
75 g Paul

217019

ATTACHMENT II
HELLYER PROSPECT
REVISED DIAMOND DRILL SUMMARY LOGS

D.H. No.	CO-ORDINATES		ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH m	CUMULATIVE METRES	SECTION	GEOLOGY/MINERALISATION	RL OF INTERSECTION	INTERSECTION
HL1	10205.0	5543.2	637.5	89	-45E	3.2.82	17.2.82	179.2	179.2	10200N	0.0 - 179.2 Upper Andesite lava (EOH) 85.4 - 179.2 pink Si/K alteration 84.4 - 96.4 Si/K/Py/chlorite alteration.		NIL
HL2	10252.2	6294.8	686.3	269	-45W	23.2.82	5.3.82	156.8	336.0	10200N	0.0 - 88.21 Que River Sequence 0.0 - 84.25 Rhyolitic volcanics 84.25-88.21 Black shale 88.21-156.8 (EOH) Pillow Lava Sequence. Intense green fuchsite alteration		NIL
HL3	10393.5	5827.5	705	270	-45W	20.7.83	10.8.83	358	694	10400N	0.0 - 138.5 Upper Andesite lava 138.5-140.5 bedded tuff 140.5-166.2 breccia intense pink Si/K/chlorite/Py alteration 166.2-172 Hanging Wall Volcaniclastics 172 Main Ore Position 172-180.1 Feldspar phyric lava/breccia. 180.1-188 Polymict volcaniclastics (feldspar phyric lava and pumice-like fragments 188-195.5 Feldspar phyric 'dacite' breccia. 195.5-197.7 Fault. 197.7-200.4 Glassy polymict lithic lapilli tuff. 200.4-224.8 Massive base metal sulphides 224.8-240.7 Footwall pumiceous volcaniclastics. 240.7-269 Feldspar Phyric Sequence. 269-313 Porphyritic Dacite Sequence. 313-358.0 Lower polymict Epiclastic Sequence.	540 to 559	200.4-223.5 m: 23.1 m of 0.6% Ba 0.3% Cu 4.5% Pb 13.0% Zn 162 g/t Ag 1.9 g/t Au (s.g: 4.61)

D.H. No.	CO-ORDINATES		ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH m	CUMULATIVE METRES	SECTION	GEOLOGY/MINERALISATION	RL OF INTERSECTION	INTERSECTION
HL4	10504.3	5855.1	716	270	-45W	13.8.83	29.8.83	271	965	10500	0.0-54 Pillow Lava Sequence 54-189.6 Andesite lava intense pink Si/K chlorite, Py alteration 169.3-185. 189.6-198.8 Hanging Wall Volcaniclastic Sequence. Py 80, 193.3-194.7 minor barytes 192.5-193.3 Chert, sericite, Si/K alteration 198.8-203.2 Fault zone 203.2-271 (EOH) Andesite lava		BARREN
HL5	10716.4	5569.2	685	90	-50E	30.8.83	23.9.83	441.6	1406.6	10700N	0.0-82.7 Que River Sequence black shale 82.7-91.0 Highly vesicular andesitic breccia Py 60. 91.0-289.5 Pillow Lava Sequence including green/grey alteration 278.4-289.5 with intense green fuchsite 282.9-284.5 289.5-289.75 Fault 289.75-292.5 Py in glassy quartz 292.5-299.75 Grey and white barytes 299.75-330.2 Massive base metal sulphide. 330.2-338.0 Py in silica matrix including 330.2-335.2 major shearing and faulting subsidiary Gn Sph minor barytes. Intense sericite/chlorite alteration. 338.0-391.9 Lower Andesite lapilli Tuff/breccia Sequence Heavily chloritized and pyritized. 391.9-439.0 Porphyritic Dacite Vent Unit and andesite breccia 439.0-441.6 EOH Lower Andesitic lapill Tuff Sequence. Intense stringer chlorite Py Gn Sph	contact zone 430 to 463	TETSU/BA/BMS 289.75-328.8 m 39.05m: 0.3% Cu 5.9% Pb 9.2% Zn 95 g/t Ag 3.55 g/t Au (s.g: 4.46) 289.75-292.7m 2.95 m: TETSU 1.8% Ba 0.1% Cu 1.1% Pb 1.4% Zn 154 g/t Ag 3.1 g/t Au (s.g: 3.45) 292.7-299.7m 7.0m: BARITE 21.65% Ba 0.13% Cu 1.8% Pb 2.3% Zn 100 g/t Ag 2.96 g/t Au (s.g: 4.0) 299.7-328.8m 29.1m: BMS 1.7% Ba 0.3% Cu 7.1% Pb 11.2% Zn 90g/t Ag 3.71g/tAu (s.g.: 4.68)

D.H. No.	CO-ORDINATES		ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH m	CUMULATIVE METRES	SECTION	GEOLOGY/MINERALISATION	RL OF INTERSECTION	INTERSECTION
HL7 cont											260.9-302.8 Massive base metal sulphides 260.9-281 Massive barytes richtop. 302.8-304.5 Faulting and shearing. 304.5-308.5 Footwall pumiceous volcaniclastics 308.5-346.6 (ECH) Feldspar Phyric lava/breccia Sequence. altered 308.5 - 323.8.	481 to 507	TETSU/BA/BMS 260.88-303.0m (42.12m) 16.2% Ba 0.17% Cu 3.96% Pb 8.01% Zn 124 g/t Ag 3.26g/t Au (s.g: 4.46) BA/BMS 276.2-303.0m (26.8m) 10.78% Ba 0.21% Cu 4.89% Pb 10.58% Zn 139 g/t Ag 4.21 g/t Au (s.g: 4.57)
HL8	10193.4	5835.6	697.0	270	-45W	13.10.83	28.10.83	390.0	2627.6	10200	0.0-235 Upper Andesite lava Sequence. 109-114 pink Si/K, Py alteration. 114-235 patchy pink Si/K alteration. 235-241 Hanging Wall Volcaniclastics. 241 Main Ore Position 241-246.8 Feldspar Phyric Sequence. 246.8-248.5 Andesitic lapilli tuff. 248.5-250.8 Lower polymict epi-clastics. 250.8-309.8 Porphyritic Dacite Vent Unit including prominent stringer alteration and mineralisation.		BARREN

D.H. No.	CO-ORDINATES		ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH m	CUMULATIVE METRES	SECTION	GEOLOGY/MINERALISATION	RL OF INTERSECTION	INTERSECTION
HL 8 (cont)											309.8-356 Lower polymict epi-clastics 356-357.7 Porphyritic Dacite Vent Unit. 357.7-366 Mixed zone. 366-390 (EOH) Feldspar Phyric Sequence (partly vesicular)		
HL9	10394.5	5941.7	703.8	270	-45W	14.10.83	26.10.83	439.0	3066.2	10400	0.0-245.4 Upper Andesite Sequence. 0-194.2 lava 194.2-245.4 lapilli tuff 68.0-95.0 pink Si/K/Py chlorite alteration. 245.4-265.5 Hanging Wall Volcaniclastics. 265 Main Ore Position 265.5-275.4 Dacite 275.4-288 Feldspar Phyric Sequence. 288-314.5 Mixed porphyritic Dacite Vent Unit and andesitic lapilli tuff. 314.5-373.2 Stringer Zone mineralisation and alteration. Fault zone 320.6-321.3 336.42-337.63 355 373.2 373.2-388.3 Porphyritic Dacite Vent Unit matrix in mixed unit. 388.3-395.6 Lower polymict epi-clastics - altered, 395.6-411.6 Porphyritic Dacite Vent Unit. 411.6-414.5 Lower polymict epi-clastics - altered. 414.5-439.0 (EOH) Lower andesitic lapilli tuff.		BARREN
HL10	10292.1	5806.6	692.3	270	-45W	27.10.83	3.11.83	293.2	3359.4	10300	0.0-179.0 Upper Andesite Sequence. 61-74 Si/K/chlorite/Py alteration. 127.8-179 Si/K alteration 50.5-50.7 Massive Py 59.5-61.5 gossan. 179.0-179.9 Fault. 179.9-197 Stringer mineralisation and alteration.		NIL

D.H. No.	CO-ORDINATES		ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH m	CUMULATIVE METRES	SECTION	GEOLOGY/MINERALISATION	RL OF INTERSECTION	INTERSECTION
HL10 (cont)											197-211.3 Porphyritic Dacite Vent Unit. 211.3-223.9 Stringer lapilli tuff. 223.9-293.2 (EOH) Feldspar Phyrlic Sequence.		
HL11	10917.2	5645.2	681.7	90	-50E	29.10.83	8.11.83	418.0	3777.4	10900	0.0-174.4 Que River Sequence. 0.0-73.3 epiclastic 73.3-174.4 Black shale 174.4-382.0 Pillow Lava Sequence. 382.0-418.0 (EOH) K/Si/chlorite breccia.		NIL
HL12	10720	5529	684.3	92	-55E	4.11.83	21.11.83	Abandoned 357	4134.4	10700N	0.0-78.0 Que River Sequence black shale 78.0-96.0 Contact zone 78.0-93.0 mixed black shale/volcanics. 83.0-96.0 highly vesicular andesite breccia. 96.0-167 Pillow Lava Sequence 167-238.5 Upper Andesite lava 238.5-260 Hanging Wall Volcaniclastics. 260-279.5 Base metal sulphide 279.5-301 Pyritic stringer lapilli tuff. 301-304.9 Base metal sulphide 304.9-319.6 Stringer lapilli tuff. 319.6-322 Base metal sulphide 322-336 Stringer lapilli tuff highly altered. 336-342 Chlorite/carbonate rock. 342-349 Stringer lapilli tuff highly altered. 349-357.0 (EOH) Chlorite/carbonate rock.		BMS 260.0-279.5m 19.5m: BMS 0.6% Ba 0.4% Cu 5.8% Pb 8.7% Zn 52 g/t Ag 1.55g/t Au (s.g.: 3.79) 300.9-304.9 4.0m: BMS 0.1% Ba 0.2% Cu 12.1% Pb 18.8% Zn 554 g/t Ag 3.01g/t Au (s.g.: 4/28) 319.6-322.0 2.4m: BMS 0.1% Ba 0.3% Cu 5.8% Pb 11.6% Zn 62 g/t Ag 0.25g/t Au (s.g.: 3.79)

D.H. No.	CO-ORDINATES		ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH m	CUMULATIVE METRES	SECTION	GEOLOGY/MINERALISATION	RL OF INTERSECTION	INTERSECTION
HL13	10802.94	5570.13	692	85	-51W	9.11.83	21.11.83	475.0	4609.4		0.0-128.3 Que River Sequence black shale 128.3-319.3 Pillow lava Sequence including 168.7-170.3 black shale. 308-319.5 green alteration. 319.3-326 Base metal sulphide 326-343.75 Intense stringer altered lapilli tuff with massive base metal sulphide 332.5-334.25, 337-338.84, 341.9-342.4 white baryte rich 342.4-343.75. Faults 327.4-327.9, 334.25-334.9, 335.1-335.3, 343.75-353.2 Chlorite rock. 353.2-430 Stringer lapilli tuff matrix dominated. ~430-475.0 EOH Porphyritic Dacite breccia Vent Unit.	410 to 415	319.3-326.0m 6.7m: TETSU 0.4% Ba 1.0% Cu 1.9% Pb 4.1% Zn 48 g/t Ag 0.6 g/t Au (s.g.: 3.78) 337.0-338.84 1.84m:EMS 0.5% Ba 0.3% Cu 5.1% Pb 7.6% Zn 28 g/t Ag 0.49g/t Au (s.g.: 3.89)
HL14	10500.91	5350.16	686.8	91	-50E	22.11.83	9.12.83	601.6	5211	10500	0.0-85.0 Que River Sequence - black shale. 85.0-92.0 Contact zone. 92.0-225.4 Pillow Lava Sequence. 225.4-234.1 Hanging Wall Volcaniclastics. 234.1 Main Ore Position. 234.1-314.1 Feldspar Phyrlic lava Sequence. 314.1-315.6 Green lava. 315.6-363 Lower polymict Epiclastic Sequence. 363-419.5 Variably stringer altered lower andesitic lapilli tuff. 419.5-421 Lower polymict Epiclastic Sequence. 421-435.4 Intrusive dacite. 435.4-539.8 Lower Andesite lapilli Tuff/lava Sequence. 539.8-553.5 Porphyritic Dacite breccia Vent Unit. 553.5-572.2 Stringer Zone. 572.2-578.8 Porphyritic Dacite Vent Unit. 578.8-601.6 EOH Stringer Zone altered porphyritic Dacite Vent Unit. Faulting 599.2-600.8		BARREN

D.H. No.	CO-ORDINATES		ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH m	CUMULATIVE METRES	SECTION	GEOLOGY/MINERALISATION	RL OF INTERSECTION	INTERSECTION
HL15	10694.25	6050.10	693.2	277	-56W	29.11.83	15.12.83	526.4	5737.4	10700	0.0-107.0 Que River Sequence - black shale. 107.0-200 Pillow Lava Sequence. 200-242.5 Pillow Lava Sequence/ Upper Andesite lava. 242.5-253.3 Si/K/chlorite/Pyrite breccia. 253.3-263.3 Hanging Wall Volcaniclastics. 263.3-361.2 Feldspar Phyric lava/breccia Sequence. 309-311.4 Green lava. 361.2-395 Porphyritic Davite Vent Unit. 395-511 Stringer lapilli tuff, alteration and mineralisation. Minor porphyritic Dacite Vent Units. Faults 484.4 - 486 486.5 - 487.2 505.6 - 506.6 509.6 - 510.3 510.7 - 511 511 - 526.4 Lower Andesitic lapilli Tuff Sequence.		BARREN
HL16	10602	5520	689.3	90	-56W	11.1.84	23.1.84	283.4	6020.8	10500N	0.0-34.6 Que River Sequence - black shale. 34.6-37.6 Contact zone. 37.6-241.2 Pillow Lava Sequence. 241.2-243.4 Hanging Wall Volcaniclastics. 243.4-250.78 Base metal sulphide. 475 250.78-253.35 Footwall pumiceous volcaniclastics. 484 253.35-254.2 Base metal sulphide. 254.2-271.3 Footwall volcaniclastics including porphyritic Dacite Vent Unit fragments. 271.3-283.4 EOH Polymict unit grades into Feldspar Phyric breccia Sequence.	243.4-250.78 7.38m: EMS 0.02% Ba 0.2% Cu 9.2% Pb 15.0% Zn 262 g/t Ag 2.31g/t Au (s.g.: 4.68) 250.78-253.35m WASTE 253.35-254.2m 0.85m: EMS 0.03% Ba 0.08% Cu 6.5% Pb 7.6% Zn 146g/t Ag 0.88g/t Au (s.g.: 4.22)	

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL17	10421.32	5564.25	672.77	90	-75W	24.1.84	31.1.84	169.7	6190.5	10400N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0.0-67.2 Upper Andesite Sequence.
 67.2-113.2 Pillow Lava Sequence.
 113.2-130.4 Hanging Wall Volcaniclastics.
 Including 117.5-120.3 Main Ore Position.
 130.4-151.5 Porphyritic Dacite Vent Unit.
 151.5-152.3 Polymict tuff - possible hangingwall volcaniclastics.
 152.3-169.7 EOH Feldspar Phyrlic lappilli tuff/breccia Sequence.
 Altered.
 EOH 10419N 5606E 508RL

BARREN

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL18	10900.9	5694.5	686.4	81	-80E	1.2.84	11.2.84	374.6	6565.1	10900N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0.0-170.1 Que River Sequence.		273.9-293.9m
0-21.2 Black Shale		20.0m: BMS
21.2-31.8 Epiclastic		0.05% Ba
31.8-170.1 Black Shale		0.4% Cu
170.1-171.5 Contact zone		7.74% Pb
171.5-263.5 Pillow Lava Sequence.	397	13.23 Zn
263.5-273.9 Hanging Wall Volcaniclastics	to	214 g/t Ag
273.9-293.8 Base metal sulphides.	416.7	3.08g/t Au
288-293.8 talc <10%		(s.g.: 4.30)
293.8-374.6 Stringer zone.	367.2	293.9-323.2m
Includes non stringer base metal sulphides	to	STRINGER
320.6-324	370.6	0.04% Ba
EOH 10893N 5757E 317RL		0.12% Cu
		2.07% Pb
		3.31% Zn
		6 g/t Ag
		0.04g/t Au
		(s.g.: 3.18)

D.H. No.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH m	CUMULATIVE METRES	SECTION	GEOLOGY/MINERALISATION	RL OF	
	NORTH	EAST										INTERSECTION	INTERSECTION
HL19	10900.5	5687.1	686	261	-79	12.2.84	22.2.84	351.6	6916.7	10900N	0.0-170.1 Que River Sequence. 0.0-13.5 Black shale 13.5-41.7 Epiclastic 41.7-170.1 Black shale. 170.1-188.7 Pillow Lava Sequence. 188.7-191.8 Black shale. 191.8-201.3 Pillow Lava Sequence. 201.3-215.4 Hanging Wall Stringer alteration 201.3- 211.8. 215.4-226.6 Stringer Zone. 226.6-227.7 Fault zone. 227.7-230.8 Hanging Wall Volcaniclastics? 230.8-245.7 Feldspar Phyric lava Sequence. 245.7-287.3 Pillow Lava Sequence. 287.3-299.5 Stringer Zone. 299.5-351.6 EOH Feldspar Phyric lava/breccia Sequence.		BARREN
HL20	10712.6	5526.4	683.8	109.8	-87	16.2.84	23.2.84	268.5	7185.2		0.0-79.3 Que River Sequence - Black shale. 79.3-145.0 Pillow Lava Sequence. 145.0-196.5 Andesite lapilli tuff highly altered. 196.5-203.9 Porphyritic Dacite Vent Unit. 203.9-222.6 Feldspar Phyric - porphyritic Dacite Vent Unit mixture. 222.6-268.5 EOH Feldspar Phyric lava/breccia.		NIL

D.H. No.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH m	CUMULATIVE METRES	SECTION	GEOLOGY/MINERALISATION	RL OF INTERSECTION	INTERSECTION
HL21	10802.7	5569.2	690.4	84.5	-73	21.2.84	1.3.84	298.3	7483.5		0.0-95.4 Que River Sequence - Black shale. 95.4-205.0 Pillow Lava Sequence. 191.9-194 Faulting. 205.0-298.3 EOH Feldspar Phyric lava breccia Sequence. 205-206.8m 40% Py with minor CO3-Sp-Gn veining only.	492	BARREN
HL22	10999.1	5641.2	684.0	88.5	-69.2	23.2.84	12.3.84	514.5	7998.0	11000N	0.0-40.8 Epiclastic. 40.8-64.7 Que River Shale. 64.7-90.8 Epiclastic. 90.8-276.1 Que River Shale. 276.1-439.6 Pillow Lava Sequence including: 331.4-382.5 Chlorite rich stringer alteration with minor base metal veinlets. 439.6-445.5 Hanging Wall Volcan- iclastic Sequence. 445.5-514.5 EOH Sericite-pyrite altered Feldspar Phyric Sequence.		BARREN
HL23	11100.7	5639.8	675.0	87.7	-71.6	2.3.84	30.5.84	592.5	8590.5	11100N	0.0-69.1 Epiclastic. 69.1-93.5 Que River Shale. 93.5-116.5 Epiclastic. 116.5-265.6 Que River Shale. 265.6-412.6 Pillow Lava Sequence extensive fuchsite alteration. 412.6-414.9 Major fault zone. 414.9-449.6 Highly altered zone (chlorite/carbonate/sericite/ pyrite) 449.6-459.5 Porphyritic dacite 459.5-539.5 Highly altered zone as above. Minor stringer base metals 471-539.5 539.5-568.0 Highly altered zone. 568.0-592.5 Uncorrelated poly- mict epiclastic unit minor stringer base metals 471.7- 545.4 m. EOH 11062N, 5850E 123 RL.		BARREN

HL24	10900.9	5694.5	686.4	-71	22.5.84	4.6.84	382.4	8972.9	10900N	0-57.0 Upper Epiclastic sequence. 57.0-176.4 Que River Shale 176.4-253.3 Pillow Lava Sequence. 253.3-282.7 Base Metal Sulphides H/W 10909N 5770E 445 RL F/W 10908N 5779E 417 RL Very minor barite at H/W visibly F.H. Grade Pb, Zn throughout, often banded. 282.7-382.4 Chlorite/pyrite/ sericite stringer zone stringer base metal veins 282.7-337.5 m Feldspar phyrlic fragment discernible from 320M	253.3-282.7m 29.4m: BMS 1.34% Ba 0.53% Cu 8.51% Pb 13.83% Zn 166g/t Ag 5.51g/t Au 0.7% As (s.g.: 4.14)
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032

HL4A (wedge)	10502	5689	561	-45W			227.6 to 356.6 EOH 129 m	9101.9	10500N	227.6-271.0 Upper Andesite Sequence 271.0-310.8 Pillow Lava Sequence including 279.8 - 291.8 strong fuchsite alteration with coarse arsenopyrite min. 310.8-316.1 Hanging Wall Volcanic- clastics 2% pyrite only. 316.1-351.4 Footwall volcanic- clastics. 351.4-356.6 Feldspar phyrlic sequence.	
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HL25	10917	5645	682	107	-78E	31.5.84	1.6.84	31.2 Abd	9133.1	10900N	0.0-29.6 Upper Epiclastic Sequence. 29.6-31.2 Que River Shale	NIL
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HL26 (Redrill of HL25)	10918	5644	682	108.5	-78.1E	1.6.84	8.6.84	295.5	9428.6	10900N	0.0-30.5 Upper Epiclastic Sequence 30.5-168.7 Que River Shale 168.7-249.3 Pillow Lava Sequence. 249.3-257.1 Hanging Wall Volcanic- clastics including 252.9-253.3 BMS at 10888N 5678 E 433 RL 257.1-295.5 Feldspar Phyrlic Sequence.	252.9-253.3m 0.4m: BMS 0.25% Ba 0.11% Cu 6.0% Pb 11.7% Zn 65g/t Ag 0.38g/t Au 0.09% As (s.g.: 4.18)
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HL26A (wedge)	10891	5676	455	108.5	-78.1E	9-6-84	10-6-84	231.1 to 256.9 EOH 25.8m	9454.4	10900N	231.1-249.4m Pillow Lava Sequence 249.4-256.9 (EOH) Hanging Wall Volcanic- clastics including 252.85-253.25m BMS	252.85-253.25m 0.4m: BMS 0.19% Ba 0.11% Cu 12.6% Pb 14.6% Zn 70g/t Ag 0.27% Au 0.07% As (s g · 4 37)
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217033

033

D.H. No.	CO-ORDINATES		ELEV- ATION	GRID		COMMENCE	COMPLETE	DEPTH	CUMULATIVE	SECTION	GEOLOGY/MINERALISATION	RL OF	INTERSECTION
	NORTH	EAST		BRG	ANGLE			m	METRES			INTERSECTION	
HL27	10500	5594	687	83.4	-57.5E	2-6-84	7-6-84	253.5	9707.9	10500N	0-91.6 Pillow Lava Sequence 91.6-135.0 Upper Andesite Sequence 135.0-195.9m Pillow Lava Sequence (Fuchsite altered 191.3-195.9m) 195.9-201.8m Hanging Wall Volcani- clastics 201.8-205.0m Barite/BMS H/W 10510N 5701E 517RL 205.0-210.1m BMS F/W 10510N 5705E 510RL 210-229.9m Footwall Volcani- clastics 229.9-232.5m Jack fault 232.5-239.0m porphyritic dacite 239.0-253.3m Stringer Zone (No Pb/Zn)	201.8-205.0m 3.2m: BARITE 26.5% Ba 0.32% Cu 2.8% Pb 4.18% Zn 120g/t Ag 1.11g/t Au 0.18% As (s.g.: 4.42) 205.0-210.1m 5.1m BMS 0.81% Ba 0.38% Cu 9.21% Pb 22.26% Zn 279g/t Ag 2.64g/t Au 1.04% As (s.g.: 4.54)	
HL28	10901	5695	686	83.5	-62.1E	5-6-84	15-6-84	430.5	10138.4	10900N	0-58.6m Upper Epiclastic Sequence 58.6-138.6m Que River Shale 138.6-266.05m Pillow Lava Sequence (Fuchsite altered 214-218m, 230.7- 244.0m Light green sericite altered 244.0- 256.6m Sericite/fuchsite altered 256.6- 266.0m) 266.05-342.0m BMS H/W 10892N 5817E 450RL (Some barite on H/W, visibly rich Zn/Pb banding is low angle to core axis indicating probable moderate easterly dip (Core orientation on sulphide banding 338-342m indicates vertical dip) 342.0-400.0m uncorrelated matrix dominated volcanoclastic unit 400.0-430.5m Uncorrelated epiclastic-Feldspar Phyruc Unit EOH 10879R 5894E 306RL	266.05-342.0m 75.95m: BMS 0.12% Ba 0.22% Cu 6.58% Pb 14.6% Zn 209g/t Ag 1.66g/t Au 2.28% As (s.g.: 4.51)	

DJJ

217034

HL29	10500	5594	688	82.7	-69.1E	7-6-84	13-6-84	310.5	10448.9	10500N	0-95.9m Pillow Lava Sequence 95.9-141.6m Upper Andesite Sequence 141.6-192.7m Pillow Lava Sequence (Fuchsite altered 167-192.7m) 192.7-193.5m Hanging Wall Volcani- clastics 193.5-200.3m Barite/BMS H/W 10506N 5666E 496RL 200.3-224.5m BMS F/W 10507N 5674E 478 RL 224.5-237.7m Stringer Zone (silica/ barite/pyrite) minor base metals only 237.7-267.5m Stringer altered feldspar phyrlic sequence zones of massive pyrite 267.5-289.0m Chalcopyrite rich stringer zone 289.0-310.5m Porphyritic dacite	193.5-197.0m 3.5m BARITE 27.4% Ba 0.22% Cu 2.18% Pb 3.71% Zn 98g/t Ag 1.39g/t Au 0.18% As (s.g.: 4.10) 197.0-222.0m 25.0m: BMS 6.28% Ba 0.27% Cu 5.73% Pb 11.32% Zn 145g/t Ag 4.22g/t Au 1.51% As (s.g.: 4.43) 267.5-283.5m 16.0m: STRINGER 0.92% Ba 4.98% Cu 1.19% Pb 1.12% Zn 37g/t Ag 0.44g/t Au 0.12% As (s.g.: 3.95) GJMCA
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HL29A	10506	5656	524	82.7	-69.1E	13-6-84	15-6-84	175.1	10518.3	10500N	175.1-192.6m Pillow Lava Sequence (fuchsite altered) 192.6-193.3m Hanging Wall Volcani- clastics. 193.3-198.3m Barite/BMS 198.3-224.8m BMS 224.8-244.5m Stringer Zone (silica/ barite 224.8-234.1m) EOH 10513N 5681E 460 RL	193.25-198.0m 4.75m: BARITE 26.78% Ba 0.34% Cu 4.22% Pb 6.35% Zn 138g/t Ag 1.55g/t Au 0.23% As (s.g.: 4.19) 198.0-224.8m 26.8m: BMS 3.73% Ba 0.31% Cu 6.26% Pb 11.34% Zn 157g/t Ag 4.09g/t Au 1.31% As (s.g.: 4.48) GJMCA
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037

D.H. NO.	CO-ORDINATES		ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL35A (wedge)	10901	6047	686	271	-59W	7.7.84	14.7.84 to 439.5 EOH 291.2m	148.3	13027.4	10900N

GEOLOGY/MINERALISATION

148.3-330.5 Pillow Lava Sequence
 Fuchsite 309.7-330.5m
 330.5-336.5m Hanging Wall Volcaniclastics
 (mineralised 335.1-336.5m)
 336.5-336.9m Barite
 336.9-393.3m Visibly high grade
 H/W 10902N 5863E 405 RL
 F/W 10906N 5826E 362 RL
 393.3-424.0m Chlorite-Carbonate altered Stringer Zone
 424.0-439.5m Porphyritic dacite.
 EOH 10910N 5797E 327 RL

RL OF INTERSECTION

INTERSECTION

335.0-336.9m
 1.9m: BARITE
 15.0% Ba
 0.28% Cu
 3.72% Pb
 5.25% Zn
 218g/t Ag
 1.57g/t Au
 0.04% As
 (s.g.: 3.28)
 336.9-393.3m
 56.4m: BMS
 0.08% Ba
 0.38% Cu
 8.56% Pb
 17.77% Zn
 221g/t Ag
 1.48g/t Au
 0.89% As
 (s.g.: 4.62)

DDJ

217038

D.H. NO.	CO-ORDINATES		ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL36	10550	5587	692	81	-82E	2.7.84	7.7.84	251.6 EOH	13279.0	10550N

GEOLOGY/MINERALISATION

0-205.3m Pillow Lava Sequence
 205.3-207.2m Hanging Wall Volcaniclastics (Barren)
 10553N 5615E 487 RL
 207.2-213.8m Highly altered
 213.8-229.7m Footwall Volcaniclastics
 229.7-251.6m Grading into porphyritic dacite
 EOH 10554N 5621E 443 RL

RL OF INTERSECTION

INTERSECTION

BARREN

GJMCA

HL37	10792	5841	697	274	-68W	5.7.84	11.7.84	335.2	13614.2	10800N	0-31.2m Que River Shale	136.8-150.0m
								EOH			31.2-136.8m Pillow Lava Sequence	13.2m: BARITE
											Intense fuchsite 119.1m-136.8m	13.79% Ba
											136.8-150.1m Barite/BMS	0.31% Cu
											150.1-196.4m BMS	6.25% Pb
											H/W 10797N 5790E 570 RL	9.06% Zn
											F/W? 10800N 5767E 515 RL	258g/t Ag
											Last 10m well banded averaging 32°	2.93g/t Au
											to C.A. This coupled with 10900N	0.21% As
											H/W position results in most likely	(s.g.: 4.33)
											min dip of 50° to 030°	150.0-196.4m
											196.4-264.4m Pillow Lava Sequence	46.4m: BMS
											Major fault 200-201.5m	2.03% Ba
											264.4-285.5m Hanging Wall Volcani-	0.67% Cu
											clastics including 279.3-280.3m	10.48% Pb
											Barite	14.75% Zn
											285.5-286.4m BMS Sericite rich	84g/t Ag
											286.4-288.3m Sericite rock Minor	2.62 g/t Au
											base metals	0.31% As
											288.3-289.5m BMS Sericite rich, well	(s.g.: 4.59)
											banded 55° to C.A.	285.5-289.5m
											289.5-296.5m Chlorite Stringer	4.0m: BMS
											296.5-304.8m Sericite Stringer	1.05% Ba
											304.8-335.2m Porphyritic dacite.	0.36% Cu
											EOH 10810N 5712E 389 RL	5.08% Pb
												9.26% Zn
												457g/t Ag
												3.36g/t Au
												2.64% As
												(s.g.: 3.72%)

GJMCA

040

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL38	10445	5567	676	87	-55E	8.7.84	15.7.84	265.9 EOH	13880.1	10450N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-149.5m Pillow Lava Sequence
 149.5-153.8m Hangingwall Volcaniclastics
 153.8-162.4m Barite
 H/W 10451N 5654E 549 RL
 162.4-210.0M BMS F/W 10452N 5687E 503 RL
 (grades into Stringer below)
 210.0-224.1m Sericite-illite altered Stringer Zone
 Base metal veins 210.0-216.6m
 224.1-238.2m Footwall volcaniclastics
 238.2-265.9m Porphyritic dacite
 EOH 10454N 5720E 459 RL

153.8-158.0m
 4.2m: BARITE
 30.4% Ba
 0.14% Cu
 1.53% Pb
 2.73% Zn
 109g/t Ag
 3.08g/t Au
 0.15% As
 (s.g.: 4.07)
 158.0-210.0m
 52m: BMS
 2.47% Ba
 0.66% Cu
 6.47% Pb
 20.39% Zn
 164g/t Ag
 3.02g/t Au
 1.2% As
 (s.g.: 4.51)

GJMCA

217041

041

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL38A (wedge)	10445	5567	676	87	-55E	15.7.84	20.7.84	112.4 to 224.9 EOH 112.5m	13992.6	10450N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

112.4-151.5m Pillow Lava Sequence
 151.5-153.8m Hanging Wall Volcaniclastics
 153.8-162.9m Barite
 162.9-214.3m BMS
 H/W 10456N 5653E 549 RL
 F/W 10460N 5689E 501 RL
 214.3-221.3m Chlorite-illite Stringer Zone
 Base metal veins to 218.4m
 221.3-224.9m Footwall Volcaniclastics
 EOH 10461N 5696E 493 RL

153.9-163.0m
 9.1m: BARITE
 28.55% Ba
 0.65% Cu
 5.37% Pb
 8.54% Zn
 176g/t Ag
 2.81g/t Au
 0.15% As
 (s.g.: 4.26)
 163.0-214.0m
 51.0m: BMS
 0.78% Ba
 0.41% Cu
 5.93% Pb
 16.11% Zn
 153g/t Ag
 2.56g/t Au
 0.97% As
 (s.g.: 4.65)
 214.0-218.0m
 4.0m: STRINGER
 0.14% Ba
 0.14% Cu
 4.26% Pb
 7.70% Zn
 52g/t Ag
 1.02g/t Au
 1.12% As
 (s.g.: 3.88)

GJM-A

217042

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL39	10794	5910	696	275	-64W	12.7.84	18.7.84	366.2 EOH	14358.8	10800N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-23.2m Que River Shale
 23.2-179.6m Pillow Lava Sequence
 Fuchsite 23.2-88.0m, 148.7-179.6m
 179.6-180.0m Hanging wall Volcaniclastics
 180.0-182.4m Barite
 H/W 10799N 5828E 536 RL
 182.4-238.5m EMS
 F/W 10804N 5800E 485 RL
 (grades into stringer below)
 238.5-307.5m Silica-sericite altered Stringer Zone with
 extensive zones massive pyrite-good base metal stringer
 veins 238.5-277.9m
 Fault at 298.4m (Jack Fault?)
 307.5-332.9m EMS
 H/W 10812N 5767E 425 RL
 F/W 10815N 5755E 403 RL
 332.9-339.2m Massive pyrite/Stringer with minor EMS
 339.2-352.4m Chlorite-Sericite Stringer
 352.4-366.2m Porphyritic dacite
 EOH 10819N 5739E 374 RL

238.0-273.0m
 35.0m: STRINGER
 3.14% Ba
 0.11% Cu
 3.19% Pb
 3.67% Zn
 44g/t Ag
 1.10g/t Au
 0.12% As
 (s.g.: 4.23)
 307.5-332.9m
 25.4m: EMS
 1.33% Ba
 1.04% Cu
 3.60% Pb
 5.89% Zn
 56g/t Ag
 0.95g/t Au
 0.14% As
 (s.g.: 4.27)

GJMCA

043

D.H. NO.	CO-ORDINATES NORTH EAST	ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL40	11100 5747	683	89	-72E	15.7.84	28.7.84	514.2 EOH	14873.0	11100N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-98.2m Upper Epiclastic Sequence
 98.2-222.0m Que River Shale
 222.0-436.0m Pillow Lava Sequence
 436.0-443.4m Hangingwall Volcaniclastic Sequence
 443.4-465.1m EMS
 H/W 11039N 5878E 266RL
 465.1-467.0m Footwall Volcaniclastic Sequence
 467.0-473.1m EMS
 F/W 11033N 5885E 238RL
 473.1-492.0m Footwall Volcaniclastic Sequence
 492.0-514.2m Dacitic tuff-lava/Feldspar Phyric Sequence
 EOH 11025N 5895E 199RL

443.3-473.1m
 29.8m: EMS
 0.07% Ba
 0.22% Cu
 8.50% Pb
 14.79% Zn
 250g/t Ag
 1.71g/t Au
 0.87% As
 (s.g.: 4.42)

GJMCA

217044

D.H. NO.	CO-ORDINATES NORTH EAST	ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL41	10794 5910	697	274	-75W	19.7.84	24.7.84	306.7	15179.7	10800N

GEOLOGY/MINERALISATION

0-22.7m Que River Shale
 22.7-219.4m Pillow Lava Sequence
 Fuchsite 22.7-116m, 212-219.4m
 219.4-228.3m EMS
 H/W 10796N 5846E 487RL
 F/W 10797N 5843E 479RL
 228.3-239.5m Altered Hanging Wall Volcaniclastics?
 239.5-271.0m Dacite Tuff-Lava
 271.0-306.7m Grading into porphyritic dacite
 EOH 10799N 5818E 404RL

RL OF INTERSECTION

INTERSECTION

219.4-228.4m
 9.0m: EMS
 0.29% Ba
 0.21% Cu
 4.94% Pb
 14.05% Zn
 137g/t Ag
 1.23g/t Au
 0.76% As
 (s.g.: 4.54)

GJMCA

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL42	10445N	5567E	676	89	-69E	20.7.84	24.7.84	190.8 EOH	15370.5	10450N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-139.0 Pillow Lava Sequence
 139.0-142.1m Hanging Wall Volcaniclastics (5% Py only)
 142.1-146.8m Footwall Volcaniclastics
 (includes 144.4-145.1 Andesite!)
 146.8-150.1m Andesite!
 150.1-169.5m Footwall Volcaniclastics
 169.5-190.8m Grading into porphyritic dacite
 EOH 10450N 5635E 498RL

BARREN

GJMCA

D.H. NO.	CO-ORDINATES NORTH EAST	ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL43	10450N 5648E	686	090	-67E	25.7.84	29.7.84	183.6 EOH	15554.1	10450N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-137.5m Pillow Lava Sequence
 137.5-140.8m Major Fault Zone
 140.8-160.4m BMS
 H/W 10451N 5703E 557RL
 F/W 10452N 5711E 538RL
 160.4-165.0m Porphyritic dacite
 Faulting 160.5-163.3m
 165.0-169.6m Chlorite Stringer Zone
 Minor base metal veins
 169.6-183.6m Prophyritic dacite
 EOH 10452N 5720E 517RL

140.8-160.4m
 19.6m: BMS
 4.58% Ba
 0.23% Cu
 10.42% Pb
 18.80% Zn
 346g/t Ag
 4.22g/t Au
 0.99% As
 (s.g.: 4.74)

GJMCA

D.H. NO.	CO-ORDINATES NORTH EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL44	10700N 5899E	708	270	-58W	25.7.84	4.8.84	394.0 EOH	15948.1	10700N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-186.1m Pillow Lava Sequence	216.9-243.5m
186.1-216.9m Pillow Lava/Upper Andesite intercalated	26.6m: BA/BMS
216.9-229.7m BMS	12.35% Ba
H/W 10701N 5787E 522RL	0.23% Cu
229.7-243.5m Barite/BMS	8.00% Pb
F/W 10702N 5774E 500RL	14.36% Zn
243.5-254.0m Siliceous Stringer Zone	256g/t Ag
Good base metal veins	2.91g/t Au
Major Fault 252.9-254.6m	0.65% As
254.0-255.9m Fuchsite altered Pillow Lava	(s.g.: 4.43)
255.9-267.2m Barite (minor hanging wall tuff at top)	255.9-365.1m
267.2-268.3m Fuchsite altered Pillow Lava	109.2m: BMS/TETSU/BA
268.3-269.6m Hangingwall Volcaniclastic with Barite	4.07% Ba
269.6-272.7m Barite/BMS	0.26% Cu
272.7-292.0m Glassy silica/BMS	6.59% Pb
(Tetsusekiei?) (as in HL5, HL7)	10.09% Zn
292.0-322.0m BMS (grades from unit above)	192g/t Ag
322.0-347.0m BMS	2.51g/t Au
347.0-352.0m Polymict breccia (uncorrelated)	0.66% As
352.0-365.1m BMS	(s.g.: 4.21)
F/W 10712N 5711E 395RL	268.3-314.0m
365.1-371.9m Sericite-Chlorite Stringer Zone	45.7m: TETSU/BMS
Major fault 364.6-369.6m	3.05% Ba
371.9-394.0m Porphyritic dacite	0.32% Cu
EOH 10714N 5697E 370RL	5.15% Pb
	7.55% Zn
	175g/t Ag
	3.36g/t Au
	0.46% As
	(s.g.: 3.88) .../..

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								

HL44 cont

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

314.0-365.1m
 51.1m: BMS
 1.07% Ba
 0.25% Cu
 8.68% Pb
 13.72% Zn
 234g/t Ag
 1.90g/t Au
 0.93% As
 (s.g.: 4.61)

GJMCA

D.H. NO.	CO-ORDINATES NORTH EAST	ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL44A (wedge)	10700N 5899E	554	270	-59W	4.4.84	10.8.84	179.9 to 393.0 EOH 213.1m	16161.2	10700N

GEOLOGY/MINEARLISATION

RL OF INTERSECTION

INTERSECTION

179.9-217.4m Pillow Lava Sequence
 217.4-234.1m BMS
 234.1-241.6m BMS/Barite
 241.6-252.7m Siliceous Stringer Zone
 Base metal veins common
 major fault 251.8-252.7m
 252.7-258.7m Fuchsite altered Pillow Lava
 258.7-262.4m Barite/Hangingwall Volcaniclastics
 262.4-267.4m Barite/BMS
 267.4-287.7m Glassy silica/BMS
 (Tetsusekiei)
 237.7-292.7m BMS-rich Polymict breccia
 292.7-300.8m Glassy silica/BMS
 300.8-316.4m Barite
 316.4-320.0m Glassy silica/BMS
 320.0-362.0m BMS
 F/W 10705N 5705E 402 RL
 362.0-373.2m Sericite-Chlorite Stringer Zone
 Minor base metal veins
 373.2-393.0m Porphyritic dacite
 EOH 10707N 5686E 379RL

217.4-241.6m
 24.2m: BA/BMS
 9.59% Ba
 0.24% Cu
 8.22% Pb
 15.73% Zn
 258g/t Ag
 1.89g/t Au
 1.08% As
 (s.g.: 4.58)
 258.7-362.0m
 103.3m: BMS/BA/TETSU
 7.28% Ba
 0.23% Cu
 5.23% Pb
 7.72% Zn
 201g/t Ag
 2.08g/t Au
 0.72% As
 (s.g.: 4.25)

.../...

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								

HL44A cont

GEOLOGY/MINERALISATIONRL OF INTERSECTIONINTERSECTION

267.4-300.8m
33.4m: TETSU
1.51% Ba
0.23% Cu
3.00% Pb
3.93% Zn
138g/t Ag
2.38g/t Au
0.37% As
(s.g.: 3.69)
316.6-362.0m
45.4m: BMS
0.12% Ba
0.26% Cu
8.00% Pb
12.47% Zn
301g/t Ag
2.37g/t Au
1.22% As
(s.g.: 4.73)

GJMCA

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL45	11100N	5747E	683	270	-59E	29.7.84	19.8.84	587.6 EOH	16748.8	11100N

GEOLOGY/MINERALISATION

0-90.9m Upper Epiclastic Sequence
 90.9-290.5m Que River Shale
 290.5-348.0m Sericite altered Pillow Lava Sequence
 348.0-521.1m Pillow Lava Sequence
 (BQ from 449.4m)
 521.1-545.0m Hangingwall Volcaniclastics Sequence
 545.0-587.6m Dacite tuff lava/Feldspar Phyric Sequence
 EOH 11146N 6004E 159RL

RL OF INTERSECTION

INTERSECTION

BARREN

DDJ

D.H. NO.	CO-ORDINATES NORTH EAST	ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL46	10850N 5926E	692	268	-59W	30.7.84	7.8.84	372.0 EOH	17120.8	10850N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-53.7m Que River Shale
 53.7-237.6m Pillow Lava Sequence
 Fuchsite altered 198.1-237.6m
 237.6-265.6m BMS
 H/W 10848N 5807E 487RL
 F/W 10848N 5793E 462RL
 265.6-322.1m Stringer Zone
 Siliceous 265.6-300.2m (base metal veins common)
 Chlorite 300.2-317.5m
 Siliceous 317.5-322.1m
 322.1-324.4m Patchy BMS (c/f HL18 321-323m)
 324.4-339.3m Chlorite-carbonate Stringer Zone
 339.3-351.5m Porphyritic dacite tuff
 351.5-364.6m Chlorite-carbonate Stringer zone
 364.6-372.0m Porphyritic dacite
 EOH 10845N 5739E 370RL

237.6-265.6m
 28.0m: BMS
 0.33% Ba
 0.26% Cu
 3.97% Pb
 7.59% Zn
 65g/t Ag
 1.08g/t Au
 0.14% As
 (s.g.: 4.71)
 322.1-324.4m
 2.3m: BMS
 0.5% Ba
 0.3% Cu
 3.06% Pb
 8.82% Zn
 13g/t Ag
 0.19g/t Au
 0.10% As
 (s.g.: 4.07)

GJMCA

053

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL46A (wedge)	10850N	5926E	530	270	-60W	7.8.84	9.8.84	186.9 to 300.3 EOH 113.4m	17234.2	10850N

GEOLOGY/MINERALISATION

186.9-237.4m Pillow Lava Sequence
 237.4-293.8m BMS
 H/W 10847N 5806E 487 RL
 F/W 10844N 5774E 441RL
 293.8-300.3m Siliceous Stringer Zone
 EOH 10843N 5770E 436RL
 NB> Coarse pyrite logged 256.6-295.3m correlates with
 similar material logged 254.0-265.6m in parent hole 46.
 This indicates the footwall dips 50° west apparent
 in section.

RL OF INTERSECTION

INTERSECTION

237.4-293.8m
 56.4m: BMS
 0.46% Ba
 0.34% Cu
 2.83% Pb
 7.45% Zn
 56g/t Ag
 0.98g/t Au
 0.15% As
 (s.g.: 4.73)

GJMCA

217054

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL46B (Wedge)	10850N	5750E	564	270	-60N	29/8/84	3/9/84	147.0 to 336.8 ECH 189.8m	17424.0	10850N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

147.0-236.0m Pillow Lava Sequence
 236.0-282.5m BMS
 H/W 108503N 5797E 495RL
 Jack Fault 282.5-285.2m
 282.5-314.1m Pillow Lava Sequence
 314.1-324.0m Hanging Wall Volcaniclastic
 Sequence
 (BMS slug 316.6-316.9m)
 324.0-327.1 BMS (highly sericitic)
 H/W 10851N 5735E 433RL
 F/W 10851N 5733E 431RL
 327.1-336.8m Chlorite-Sericite Stringer
 Zone
 Minor base metal veins
 ECH 10851N 5726E 424RL
 (Unexpected severe lift deviation
 165-225m unfortunately meant hole was
 15m west of target)

236.0-282.5m
 46.5m: BMS
 0.4% Ba
 0.43% Cu
 5.8% Pb
 14.73% Zn
 72g/t Ag
 1.87g/t Au
 0.28% As
 (s.g.: 4.73)
 316.2-325.7m
 9.5m: BMS
 0.24% As
 0.32% Cu
 4.27% Pb
 6.92% Zn
 67g/t Ag
 0.29g/t Au
 0.24% As
 (s.g.: 3.46)
 325.7-336.8m
 11.1m: BMS
 0.14% Ba
 0.26% Cu
 2.58% Pb
 3.92% Zn

.../..

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								

HL46B cont.

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

54g/t Ag
 0.27g/t Au
 0.14% As
 (s.g.: 3.26)

GJMcA

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL47	10850N	5927E	692	269	-71W	9.8.84	15.8.84	313.4 ECH	17737.4	10850N

GEOLOGY/MINERALISATION

0-46.8m Que River Shale
 46.8-240.9 Pillow Lava Sequence
 Fuchsite 46.8-100.7, 192.7-203.5, 229.5-240.9
 240.9-270.1m BMS (Barite 240.9-243.65)
 H/W 10852N 5848E 464RL
 F/W 10853 5838E 436RL
 270.1-200.2m Siliceous Stringer Zone
 289.2-313.4m Porphyritic dacite
 ECH 10855N 5823E 396RL

RL OF INTERSECTION

INTERSECTION

240.9-243.65M
 2.75M: BARITE
 30.22% Ba
 0.15% Cu
 4.44% Pb
 5.88% Zn
 189g/t Ag
 1.86g/t Au
 0.06% As
 (s.g.: 4.38)
 243.65-270.1m
 26.45m: BMS
 0.09% Ba
 0.24% Cu
 7.13% Pb
 12.65% Zn
 170g/t Ag
 1.88g/t Au
 1.17% As
 (s.g.: 4.67)

GJMCA

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL47A (wedge)	10851N	5868E	522	269	-71W	15.8.84	17.8.84	180.0 to 280.1 EOH 100.1m	17837.5	10850N

GEOLOGY/MINERALISATION

180.0-240.9 Pillow Lava Sequence
 240.9-243.34m Barite
 243.35-269.0m BMS
 269.0-280.1m Silicious Stringer Zone

RL OF INTERSECTION

INTERSECTION

240.9-243.35m
 2.45m: BARITE
 29.56% Ba
 0.17% Cu
 3.71% Pb
 6.09% Zn
 205g/t Ag
 1.81g/t Au
 0.03% As
 (s.g.: 4.24)
 243.35-270.0m
 26.65m: BMS
 0.26% Ba
 0.28% Cu
 7.46% Pb
 13.04% Zn
 195g/t Ag
 2.44g/t Au
 1.69% As
 (s.g.: 4.66)

GJMCA

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL48	10700N	5960E	699	270	-57W	11.8.84	20.8.84	424.0 EOH	18261.5	10700N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-23.7m Que River Shale	321.3-397.5m
23.7-237.1m Pillow Lava Sequence	76.2m: EMS
Strong silica-K-feldspar alteration	0.2% Ba
209.8-237.1	0.19% Cu
237.1-267.6m Hanging Wall Volcaniclastics Sequence	7.22% Pb
276.6-282.0m Footwall Volcaniclastics Sequence	12.71% Zn
282.0-314.1m Sericite-chlorite Stringer Zone	227g/t Ag
314.1-315.4m Major fault (Jack Fault?)	2.38g/t As
315.4-321.3m Siliceous Stringer Zone	2.32% As
321.3-397.5m EMS (highly mineralised!)	(s.g.: 4.77)
H/W A 10714N 5780E 433RL	
F/W B 10719N 5734E 373RL	
397.5-415.7m Sericite-chlorite Stringer Zone	
Minor base metal veins	
415.7-424.0m Porphyritic dacite	
EOH 10721N 5718E 352 RL	

GJMcA

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL49	10850N	5927E	692	274	-80W	18.8.84	23.8.84	320.8 ECH	18582.3	10850N

GEOLOGY/MINERALISATION

0-45.8m Que River Shale
 45.8-255.9m Pillow Lava Sequence
 255.9-260.1m Hanging Wall Volcaniclastic Sequence
 260.1-264.7m illite-chlorite stringer
 264.7-320.8 Feldspar Phyrlic/Dacite tuff lava
 ECH 10855N 5873E 376RL

RL OF INTERSECTION

INTERSECTION

BARREN

GJMcA

060

D.H. NO.	CO-ORDINATES NORTH EAST	ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL50	10750N 5907E	700	271	-56W	20.8.84	31.8.84	371.0 EOH	18953.3	10750N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-27.2m Que River Shale
 27.2-168.4m Pillow Lava Sequence
 168.4-171.0m Hangingwall Volcaniclastic Sequence
 171.0-174.7m Pillow Lava Sequence
 174.7-178.7m Hangingwall Volcaniclastic Sequence
 178.7-244.0m EMS (extreme high grade visibly)
 H/W 10750N 5811E 549RL
 244.0-299.3m Pillow Lava Sequence (Jack Fault @ 244m)
 299.3-303.5m Hangingwall Volcaniclastic Sequence
 303.5-357.3m EMS (parts extreme high grade)
 H/W 10748N 5743E 444RL
 F/W 10748N 5716E 398RL
 357.3-359.8m Chlorite-Sericite Stringer Zone
 minor base metal veins
 359.8-371.0m Porphyritic dacite
 EOH 10748N 5708E 387RL

178.7-244.0m
 65.3m: EMS
 2.59% Ba
 0.52% Cu
 7.32% Pb
 17.51% Zn
 105g/t Ag
 1.6g/t Au
 0.89% As
 (s.g.: 4.66)
 303.0-357.0m
 54m: EMS
 0.07% Ba
 0.51% Cu
 7.34% Pb
 17.88% Zn
 205g/t Ag
 3.26g/t Au
 1.15% As
 (s.g.: 4.72)

DDJ

217061

061

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL51	10712N	5527	684	100	-69E	21.8.84	28.8.84	253.8 EOH	19207.1	10700N

GEOLOGY/MINERALISATION

0-76.8m Que River Shale
 76.8-202.7m Pillow Lava Sequence
 202.7-204.1m Hangingwall Volcaniclastic Sequence
 204.1-216.4m Footwall Volcaniclastic Sequence
 216.4-237.0m Sericite-chlorite Stringer
 237.0-253.8m Footwall Volcaniclastic Sequence
 (grading towards porphyritic dacite)
 EOH 10688N 5607E 444RL

RL OF INTERSECTION

INTERSECTION

BARREN

GJMcA

217062

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL52	10850N	5645E	682	87	-69E	23.8.84	28.8.84	276.4 EOH	19483.3	10850N

GEOLOGY/MINERALISATION

0-121.0m Que River Shale
 121.0-247.9m Pillow Lava Sequence
 247.9-251.4m Hangingwall Volcaniclastic Sequence
 251.4-260.4m BMS (Highly sericitic some waste)
 260.4-276.4m Sericite-Chlorite Stringer Zone
 minor base metal veins
 EOH 10835N 5725E 417RL
 (Deviated unexpectedly down & south!)

RL OF INTERSECTIONINTERSECTION

251.4-260.4m
 9.0m: BMS
 0.21% Ba
 0.51% Cu
 5.81% Pb
 9.22% Zn
 250g/t Ag
 1.99g/t Au
 2.45% As
 (s.g.: 3.87) GJMcA

D.H. NO.	CO-ORDINATES NORTH EAST	ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL53	10950N 5950E	684	270	-75W	28.8.84	7.9.84	400.5 EOH	19883.8	10950N

GEOLOGY/MINERALISATION

0-16.6m Upper Epiclastic Sequence
 16.6-96.8m Que River Shale
 96.8-308.0m Pillow Lava Sequence
 308.0-309.2m Hangingwall Volcaniclastic Sequence
 309.2-366.2m BMS
 H/W 10939N 5859E 388RL
 F/W 10937N 5842E 334RL
 366.2-400.5m Sericite-Chlorite Stringer Zone
 EOH 10937N 5831E 301RL

RL OF INTERSECTION

INTERSECTION

309.2-366.2m
 57.0m: BMS
 0.10% Ba
 0.40% Cu
 8.60% Pb
 15.42% Zn
 180g/t Ag
 2.03g/t Au
 1.08% As
 (s.g.: 4.73)

GJMCA

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL54	11213N	5703E	699	182	-72S	1.9.84	6.9.84	225.3 EOH	20109.1	11050N

GEOLOGY/MINERALISATION

0-121.3m Upper Epiclastic Sequence
 121.3-225.3m Que River Shale
 Hole stopped to install HQ casing wedge to correct
 westerly deviation
 EOH 11139N 5717E 458RL

RL OF INTESECTION

INTERSECTION

NIL

DDJ

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								

HL54A (wedge)	11145N	5717E	469	190	-65S	6.9.84	10.9.84	212.8 to 324.7 111.9m	20221.0	11050N
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GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

212.8-311.6m Que River Shale
 311.6-324.7m Pillow Lava Sequence
 Hole stopped to install NQ casing wedge to correct
 westerly deviation.
 EOH 11091N 5712E 370RL

NIL

DDJ

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL54B (Wedge)	11098N	5715E	381	181	-58W	10.9.84	16.9.84	312.6 to 489.4 176.8m	20398.0	11050N

GEOLOGY/MINERALISATION

312.6-440.7m Pillow Lava Sequence
 Fuchsite 395.4-405.0m
 440.7-455.0m Perperitic lava/shale
 mineralised 440.7-443.4 5% Py trace base metals
 455.0-470.2m Shale
 470.2-480.0m Highly altered (2% Sph 477.3-480.0)
 480.0-489.4m Feldspar Phyrlic Sequence
 EOH 10984N 5690E 249RL

RL OF INTERSECTION

INTERSECTION

BARREN

DJJ

067

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL55	10900N	5928E	688	270	-68W	4.9.84	10.9.84	192.0 EOH	20589.8	10900N

GEOLOGY/MINERALISATION

0-63.9m Que River Shale
 63.9-192.0m Pillow Lava Sequence
 Hole stopped to install HQ casing wedge to correct
 steepening deviation
 EOH 10896N 5861E 508RL

RL OF INTERSECTION

INTERSECTION

NIL

GJMCA

217068

D.H. NO.	CO-ORDINATES		ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL55A (Wedge)	10893N	5868E	529	266	-71W	10.9.84	14.9.84	169.8 to 342.4 172.6m	20762.4	10900N

GEOLOGY/MINERALISATION

169.8-259.5m Pillow Lava Sequence
 259.5-322.2m BMS
 H/W 10898N 5837E 445RL
 F/W 10900N 5813E 387RL
 322.2-342.4m Siliceous Stringer Zone
 minor base metal veins
 EOH 10901N 5805E 368RL

RL OF INTERSECTION

INTERSECTION

259.5-322.2m
 62.7m: BMS
 0.32% Ba
 0.54% Cu
 6.48% Pb
 12.87% Zn
 144g/t Ag
 2.05g/t Au
 1.35% As
 (s.g.: 4.82) GJMCA

D.H. NO.	CO-ORDINATES NORTH EAST	ELEVATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL56	10950N 5950E	684	270	-64W	07.09.84	17.09.84	396.3 EOH	21158.7	10950N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-16.5m Triconed
 16.5-102.8m Que River Shale
 102.8-132.6m Pillow Lava Sequence
 Strong fault at 132.6m
 132.6-138.7m Que River Shale
 138.7-298.6m Pillow Lava Sequence
 298.6-301.9m Hangingwall Volcaniclastic Sequence
 301.9-340.3m BMS
 H/W 10948N 5817E 412RL
 F/W 10949N 5798E 375RL
 340.3-396.3m Chlorite-Sericite Stringer Zone
 Major Fault @ 386.5-387.5m (Jack Fault?)
 EOH 10951N 5755E 328RL

301.9-341.3m
 39.4m: BMS
 0.36% Ba
 0.41% Cu
 7.29% Pb
 12.48% Zn
 116g/t Ag
 2.79g/t Au
 1.04% As
 (s.g.: 4.69)

GJMCA

070

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL57	10750N	5905E	700	270	-47W	15.09.84	22.09.84	356.1 EOH	21514.8	10750N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-27.3m Que River Shale
 27.3-176.6m Pillow Lava Sequence
 Intense fuchsite 121.0-176.6m
 176.6-197.8m BMS (minor tet.su, Ba 176.6-185.5m)
 H/W 10751N 5784E 572RL
 197.8-215.5m BMS
 Major fault 215.5-216.1m (Jack Fault)
 215.5-323.7m Pillow Lava Sequence
 323.7-337.9m Hangingwall Volcaniclastic Sequence
 337.9-338.6m Highly sericitic BMS
 H/W 10757N 5672E 457RL
 F/W 10757N 5671E 457RL
 338.6-341.1m Chlorite-sericite Stringer Zone
 341.1-350.2m Footwall Volcaniclastic Sequence
 350.2-356.1m Feldspar Phyric Sequence
 EOH 10758N 5659E 444RL

176.6-215.5m
 38.9m: TE/BA/BMS
 9.09% Ba
 0.54% Cu
 10.19% Pb
 15.17% Zn
 175g/t Ag
 2.93g/t Au
 0.30% As
 (s.g.: 4.40)
 176.6-183.9m
 7.3m: TE/BA/BMS
 3.25% Ba
 0.19% Cu
 5.03% Pb
 8.30% Zn
 124g/t Ag
 4.13g/t Au
 0.59% As
 (s.g.: 4.09)
 183.9-215.5m
 31.6m: BMS/BA
 10.32% Ba
 0.61% Cu
 11.28% Pb
 16.62% Zn
 186g/t Ag
 2.67g/t Au
 0.24% As
 (s.g.: 4.47)

GJMCA

217071

071

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL58	10950N	6079E	684	273	-64W	17.9.84	27.9.84	472.5 EOH	21987.3	10950N

GEOLOGY/MINERALISATION

0-78.6m Upper Epiclastic Sequence
 78.6-151.9m Que River Shale
 151.9-394.4m Pillow Lava Sequence
 394.4-447.8m BMS
 H/W 10960N 5892E 337RL
 F/W 10963N 5863E 292RL
 447.8-472.5m Chlorite-Sericite Stringer Zone
 EOH 10964N 5851E 271RL

RL OF INTERSECTION

INTERSECTION

394.4-447.8m
 53.4m: BMS
 0.04% Ba
 0.42% Cu
 9.48% Pb
 17.64% Zn
 227g/t Ag
 2.25g/t Au
 1.26% As
 (s.g.: 4.70)

GJMCA

217072

072

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL58A (wedge)	10955N	5952E	442	274	-60W	28.9.84	2.10.84	273.1 to 460.5 187.4m	22174.7	10950N

GEOLOGY/MINERALISATION

273.1-396.9m Pillow Lava Sequence
 396.9-398.2m Hangingwall Volcaniclastic Sequence
 398.2-453.5m BMS
 H/W 10964N 5881E 340RL
 F/W 10972N 5845E 299RL
 453.5-460.5m Chlorite Stringer Zone
 EOH 10973N 5840E 294RL

RL OF INTERSECTION

INTERSECTION

398.2-455.65m
 57.45m: BMS
 0.04% Ba
 0.42% Cu
 10.80% Pb
 19.00% Zn
 174g/t Ag
 2.04g/t Au
 0.79% As
 (s.g.: 4.74)

217073

073

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL59	11376N	5824E	663	174	-72W	17.9.84	20.9.84	85.9 EOH	22260.6	11150N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

Ø-85.9m Upper Epiclastic Sequence (Shale)
Hole abandoned due to excessive westerly deviation.

NIL

DJJ

217074

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL60 (Redrill HL59)	11377N	5824E	663	167	-72S	21.9.84	23.9.84	112.5 EOH	22373.1	11150N

GEOLOGY/MINERALISATION

Ø-112.5m Upper Epiclastic Sequence (shale)
 Hole abandoned due to excessive westerly deviation again,
 despite rotating the rig 7° east. Southerly drilling now
 abandoned. Westerly drilling from east to be tried.

RL OF INTERSECTIONINTERSECTION

NIL

DJJ

075

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL61	10750N	6946E	694	271	-58W	23.9.84	30.9.84	437.4 EOH	22810.5	10750N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

0-3.0m Triconed Upper Epiclastics	230.6-231.8m
0-38.4m Que River Shale	1.2m: BMS
38.4-223.6m Pillow Lava Sequence	0.60% Ba
223.6-230.6m Hangingwall Volcaniclastic Sequence	0.10% Cu
230.6-231.8m BMS	2.50% Pb
H/W 10748N 5824E 500RL	5.00% Zn
F/W 10748N 5823E 499RL	34g/t Ag
231.8-242.2m Footwall Volcaniclastic Sequence	0.66g/t Au
242.2-272.9m Porphyritic dacite	0.24% As
272.9-318.3m Sericite-Chlorite Stringer Zone	(s.g.: 3.58)
Minor base metal veins	318.3-329.0m
Major fault 317.7-318.3m (Jack Fault)	10.7m: BMS
318.3-329.0m BMS	0.07% Ba
F/W 329.0m 10750N 5771E 416RL	0.56% Cu
329.0-345.6m Massive pyrite & sericite Stringer Zone	10.64% Pb
Major fault 331.6-338.4m	18.70% Zn
345.6-389.8m BMS	116g/t Ag
F/W (345.6m) 10750N 5762E 401RL	1.8g/t Au
F/W (389.8m) 10751N 5738E 364RL	0.30% As
389.8-392.8m Well mineralised Stringer Zone	(s.g.: 4.73)
392.8-437.4m Porphyritic dacite	345.6-389.8m
	44.2m: BMS
	0.33% Ba
	1.18% Cu
	6.81% Pb
	11.73% Zn
	128g/t Ag

.../..

217076

076

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								

HL61 cont

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

1.26g/t Au
 0.26% As
 (s.g.: 4.88)
 389.8-392.8m
 3.0m: STRINGER
 0.10% Ba
 0.44% Cu
 5.93% Pb
 10.23% Zn
 93g/t Ag
 1.35g/t Au
 0.48% As
 (s.g.: 4.35)

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217077

077

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL62 (Redrill HL59 & 60)	11148N	6032E	676	274	-70W	24.9.84	14.10.84	480.5 EOH	23291.0	11150N

GEOLOGY/MINERALISATION

0-86.1 Upper Epiclastic Sequence
 86.1-212.4m Que River Shale
 212.4-480.5m Pillow Lava Sequence
 EOH 1142N 5764E 286RL
 Abandoned due to deviation.

RL OF INTERSECTION

INTERSECTION

NIL

DJJ

217078

078

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL63	10600N	5629E	697	90	-73E	1.10.84	8.10.84	301.5 EOH	23592.5	10600N

GEOLOGY/MINERALISATION

0-215.3m Pillow Lava Sequence
 Cavity 102.2-108.8m gave drilling problems
 215.3-223.7m Hangingwall Volcaniclastic Sequence
 Minor Barite 223.0-223.7m
 223.7-225.4m Tetsusekiei style mineralisation
 225.4-246.6m BMS
 H/W 10596N 5692E 483RL
 F/W 10595N 5699E 461RL
 246.6-301.5m Sericite-silicia Stringer Zone
 (Feldspar Phyrlic recognizable 271-292m)
 EOH 10592N 5713E 408RL

RL OF INTERSECTION

INTERSECTION

223.7-247.0m
 23.3m: BMS/TETSU/BA
 0.04% Ba
 0.20% Cu
 9.07% Pb
 16.25% Zn
 285g/t Ag
 1.66g/t Au
 1.16% As
 (s.g.: 4.53)
 223.7-225.4m
 1.7m: TETSU
 0.16% Ba
 0.21% Cu
 2.62% Pb
 3.37% Zn
 123g/t Ag
 1.36g/t Au
 0.15% As
 (s.g.: 3.53)
 225.4-247.0m
 21.6m: BMS
 0.04% Ba
 0.20% Cu
 9.45% Pb
 17.03% Zn
 295g/t Ag
 1.68g/t Au
 1.22% As
 (s.g.: 4.61)

GJMCA

217079

079

D.H. NO.	CO-ORDINATES		ELEV- ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
	NORTH	EAST								
HL63A (Wedge)	10597	5676E	539	95	-73E	9.10.04	11. 10. 84	165.2 to 253.4 88.2m	23680.7	10600N

GEOLOGY/MINERALISATION

165.2-214.95m Pillow Lava Sequence
 214.95-221.95m Hangingwall Volcaniclastics
 221.95-222.5m Barite
 H/W 10596N 5692E 485RL
 222.5-223.6m Tetsusekiei style mineralisation
 223.6-249.35m BMS
 F/W 10596N 5700E 458RL
 249.35-253.4m Sericite-Chlorite Stringer Zone
 BOH 10596N 5701E 454RL
 (Only 1.4m north of parent hole - may be due to use
 of Hall-Rowe wedge instead of casing wedge).

RL OF INTERSECTION

INTERSECTION

222.5-249.35m
 26.85m: BMS/TETSU
 0.03% Ba
 0.19% Cu
 8.14% Pb
 13.95% Zn
 268g/t Ag
 1.24g/t Au
 1.45% As
 (s.g.: 4.61)
 222.5-223.6m
 1.1m: TETSU
 0.05% Ba
 0.11% Cu
 5.40% Pb
 7.20% Zn
 106g/t Ag
 1.2g/t Au
 0.31% As
 (s.g.: 3.78)
 223.6-249.35m
 25.75m: BMS
 0.03% Ba
 0.20% Cu
 8.23% Pb
 14.19% Zn
 274g/t Ag
 1.24g/t Au
 1.49% As
 (s.g.: 4.64)

GJMCA

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