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256001

RAO:CR

Mac 61

3 December 1984

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 12 NOVEMBER 1984

MACKINTOSH WEST

Hellyer Prospect

Drilling

During the fourth quarter diamond drilling continued with 34 drill holes collared. Meterage drilled was 9,309.6m, averaging 19.4m per shift with 3 rigs on a 14 shifts per week basis.

Drilling was suspended on November 13 for the year. Total meterage drilled in 1984 was 23,421.8 metres in 83 holes. The in-fill drilling was completed and step-out drilling was suspended 2,333m short of the current program's budgetted total. Refer to graph. This meterage, and attendant funds will be reserved for possible step-out drilling at the north end of Hellyer in early 1985 once geological interpretation is completed.

Revised diamond drill summary logs are attached for drill holes HL17-55. Attached Table A details co-ordinates, collar level, declination depth and intersections of drill holes HL18-77. Table B details final and preliminary assays available to date for drill holes HL3-57. Assaying of outstanding intersections is expected to be complete by Christmas. Staff are now engaged in compilation, interpretation and ore resource estimation.

Plates attached are:-

HEL15 Hellyer Section Plan Projection
Hellyer Cross Sections:-

10300N 10400N 10500N 10600N 10700N 10800N 10900N
10350N 10450N 10550N 10650N 10750N 10850N 10950N

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Geology

Mapping has concentrated on the Hellyer portal access road, approx 1.5km is now mapped.

Geophysics

Billiton Australia's down-hole IP system was tested on two Hellyer drill holes. The ore in HL37 was too conductive for the system, while the very narrow interval in HL65 was detected satisfactorily.

Metallurgy

A conference was held at Burnie to review Hellyer Metallurgy. Flotation tests will continue in Burnie but main emphasis will shift to hydro- and pyro- metallurgical studies based at CSIRO.

Development

Activities are centred on establishing site facilities, equipment purchase and access to the portal site. The HEC have commenced preparation for a 22 KV line from the Que River sub-station to Hellyer.

MACKINTOSH EL2/70

Geology

Costeaning was completed around HL2 drill site east of the Hellyer ore zone to expose the shale/volcanics contact for mapping and sampling.
Detailed mapping of the Hellyer portal access road is revealing valuable geological information on the area between Hellyer and Zone D, north of Que River.
The 1:10,000 scale geological plan was revised.

Geophysics

Activities were grid preparation for the detailed UTEM survey this summer. Line cutting has commenced on loops in the HL2 drill site area; 4 line km were completed.

Report

A report on exploration covering the period January 1983 to April 1984 was issued to the Department of Mines on October 8.

Tenure

The Department of Mines was advised of those areas of the Mackintosh licence to be relinquished on December 30, 1984 in compliance with licence conditions. The west block is to be reduced from 174 sq kms to 94 sq kms. Refer to Plate MAC 85 attached.

EXPENDITURE for the fourth quarter was	$13,598	EL2/70 Hellyer
	$834,952	
	$848,550	

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

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MACKINTOSH EAST JOINT VENTURE

No field work during the quarter.

Amoco Minerals are negotiating to join the JV and become Manager, acquiring part of Geopeko's interest. No contact with Amoco as yet concerning their proposed program. The area of the east block is to be reduced from 58 sq kms to 31 sq kms in compliance with the licence conditions (refer plate MAC 85).

Report and expenditure statement to be submitted by Geopeko/Amoco.

Yours faithfully
ABERFOYLE EXPLORATION PTY LTD

R A OXENFORD
Exploration Services Superintendent

Enc

cc J R Sise

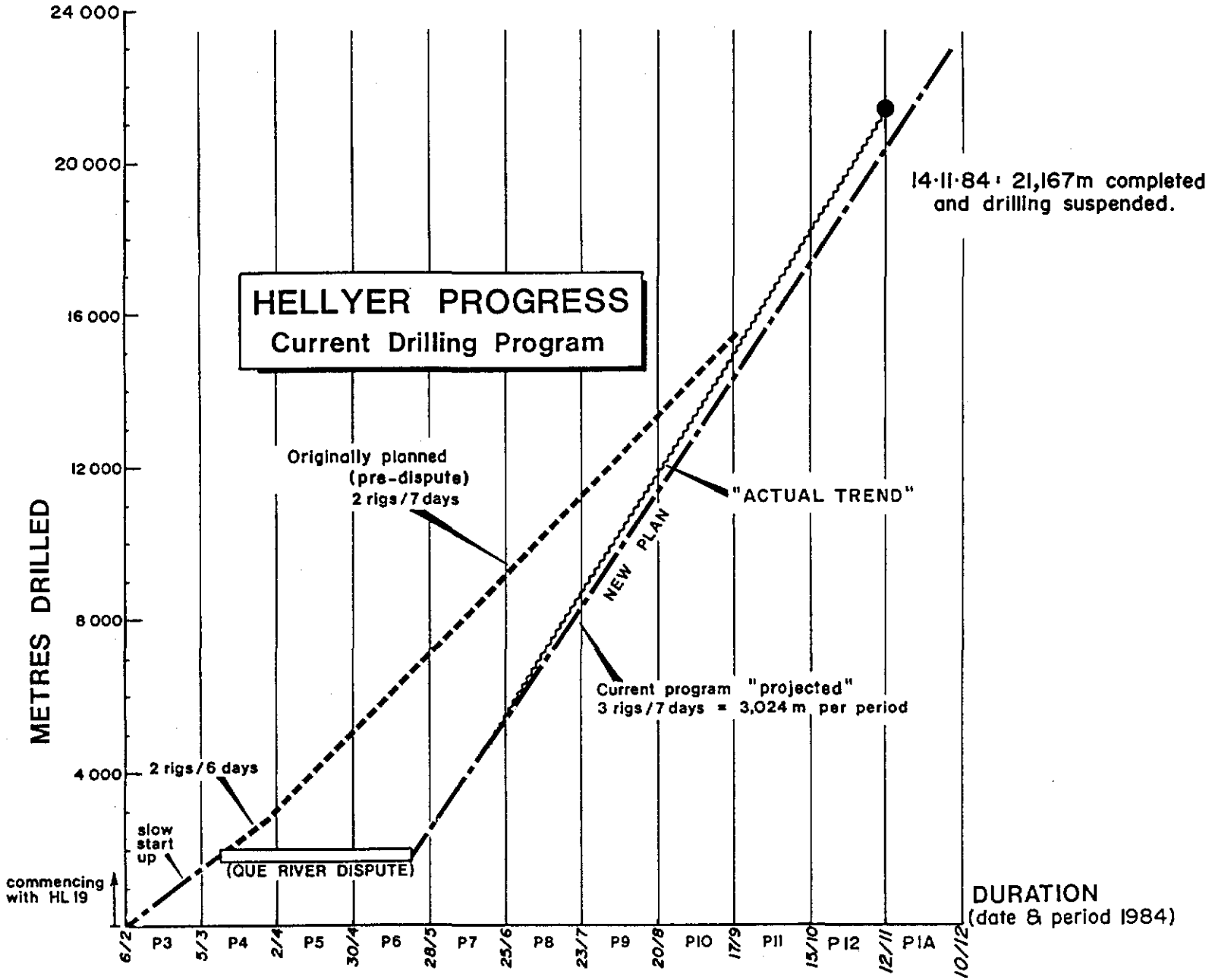
HELLYER PROGRESS
Current Drilling Program
METRES DRILLED
24 000
20 000
16 000
12 000
8 000
4 000
Originally planned
(pre-dispute)
2 rigs / 7 days
"ACTUAL TREND"
NEW PLAN
14·11·84 : 21,167m completed
and drilling suspended.
Current program "projected"
3 rigs / 7 days = 3,024 m per period
2 rigs / 6 days
slow
start
up
commencing
with HL 19
(QUE RIVER DISPUTE)
DURATION
(date & period 1984)
6/2
P3
5/3
P4
2/4
P5
30/4
P6
28/5
P7
25/6
P8
23/7
P9
20/8
P10
17/9
P11
15/10
P12
12/11
P1A
10/12

TABLE A

Hole	Co-ords. E N metres	Alt. m.	Decl. deg.	Depth (m)	Objective	Result
HL18	5695 10901	686	-80E	374.6 EOH	Test for downplunge extension RL 400. 5760E 10900N	Massive sulphide mineralisation 273.9 - 293.85, stringer mzn 293.85 - 374.6 m
HL19	5687 10900	686	-79W	351.6 EOH	Test for downplunge extension RL 400 5650E, 10900N	Pyrite at target position 289.6 - 289.8. Intense stringer style alteration 201.3-211.8 m and 215.4 -229.9m
HL20	5526 10713	684	-83E	268.5 EOH	Test western edge of mineralisation at 5550E 10700N, RL 450	Barren in target position with possible rhodochrosite 204-210 m.
HL21	5571 10800	692	-73E	298.3 EOH	Test ore position at 5650E, 10800N, RL 430	Pyrite with minor Sph-Gn at target 205 - 206.8m
HL22	5642 11000	684	-70E	514.5 EOH	Test downplunge extension 11000N, 5750E, RL 370	331.4 - 382.5 m chlorite-rich stringer style mineralisation with minor basemetal veinlets
HL23	5640 11101	675	-72E	592.5 EOH	Test for downplunge extension 11100N, 5750E, RL 350	Major fault zone 412.6-414.9 m Stringer mzn with minor base metals only 414.9-568.0m
HL24	5695 10901	686	-71E	382.4 EOH	Test position 5800E, RL400 50m E of HL18	Massive sulphide mineralisation 253.3-282.7m stringer mzn 282.7-337.5m

TABLE A

Hole	Co-ords. E	Co-ords. N	Alt. m.	Decl. deg.	Depth (m)	Objective	Result
	metres						
HL24A	5689	10502	561	-45W	356.6 EOH	Test position 5625E RL400 by BQ wedging off HL4 at 227.6m	Minor pyrite only at target position.
HL25	5645	10917	682	-78E	31.2 EOH	Test position 5700E RL400 50mW of HL18	Abandoned-deviation problems.
HL26	5644	10918	682	-78E	295.5 EOH	As above-redrill of HL25	Massive sulphides 252.9-253.3m
HL26 A	5676	10891	455	-79E	256.9 EOH	Wedge duplication HL26 from 231.1m	Massive sulphides 252.85-253.25m
HL27	5594	10500	687	-58E	253.5 EOH	Test position 5705E RL520	Massive sulphides /barite 201.8-210.1m
HL28	5695	10901	686	-62E	430.5 EOH	Test position 5850E RL400 50m E HL24	Massive sulphides 266.05-342.0m
HL29	5594	10500	688	-69E	310.5 EOH	Test position 5665E RL520	Massive sulphides /barite 193.5-224.5m Massive Cpy veins 267.5-271.4 & 279.4-283.35m
HL29 A	5656	10506	524	-69E	244.5 EOH	Wedge duplication HL29 from 175.1m	Massive sulphides /barite 193.25-224.8m
HL30	5444	10900	681	-68E	484.4 EOH	Test position 5550E RL360	Minor pyrite only at target position
HL31	6048	10900	685	-69W	502.5 EOH	Test position 5925E RL390 100m E HL28	Barren in target position but stringer at depth
HL32	5587	10550	692	-68E	289.5 EOH	Test position 5675E RL485	Massive sulphides 206.4-230.2m
HL32 A	5648	10551	537	-68E	246.0 EOH	Wedge duplication HL32 from 166.5m	Massive sulphides 206.65-232.65m
HL33	5569	10800	691	-60E	352.0 EOH	Test position 5710E RL430	Barren in target position but stringer below

TABLE A

Hole	Co-ords. E N metres	Alt. m.	Decl. deg.	Depth (m)	Objective	Result
HL34	5587 10550	692	-56E	286.5 EOH	Test position 5715E RL500	Massive sulphides 230.15-235.0 m
HL35	6047 10901	686	-59W	223.5 EOH	Test position 5840E, 340RL	Abandoned. Deviation problems
HL35 A	5974 10899	557	-61W	439.5 EOH	As above - BQWL wedge off HL35 @ 148.3 m	Massive sulphides 335.1-393.3 m
HL36	5586 10550	692	-82E	251.8 EOH	Test position 5625E, 500RL	Minor pyrite only at target position
HL37	5841 10792	697	-68W	335.2 EOH	Test position, 5730E, 440RL	Massive sulphides 136.8-196.4 m, 285.5 - 289.5 m
HL38	5567 10445	676	-55E	265.9 EOH	Test position 5675E 525RL	Massive sulphides 153.8 - 210.0 m
HL38 A	5631 10449	583	-56E	224.9 EOH	Wedge duplication HL38 from 112.4 m	Massive sulphides 153.9 - 214.3 m
HL39	5910 10794	696	-64W	366.2 EOH	Test position 5825E, 525 RL	Massive sulphides 180.0 - 238.5 m 307.5 - 332.9 m
HL40	5747 11100	683	-72E	514.2 EOH	Test position 5900E, 260RL	Massive sulphides 443.4 - 473.1m
HL41	5910 10794	697	-75W	306.7 EOH	Test position 5850E, 470 RL	Massive sulphides 219.4-228.3 m
HL42	5567 10445	676	-69E	190.8 EOH	Test position 5620E, 535RL	Minor pyrite only at target position.
HL43	5648 10450	686	-67E	183.6 EOH	Test position 5710E 545 RL	Massive sulphides 140.8 - 160.4m
HL44	5899 10700	708	-58W	394.0 EOH	Test position 5810E 565RL, 5740E 435RL	Massive sulphides 216.9 - 243.5m 269.6 - 365.1m

TABLE A

Hole	Co-ords. E (metres)	Co-ords. N (metres)	Alt. m.	Decl. deg.	Depth (m)	Objective	Result
HL44 A	5806	10700	554	-59W	393.0 EOH	Duplicate intersection off HL44 @ 179.9m	Massive sulphides 217.4 - 241.6m 262.4 - 362.0m
HL45	5747	11100	683	-59E	587.6 EOH	Test position 5980E 260RL	Barren at target position
HL46	5926	10850	692	-59W	372.0 EOH	Test positions 5800E 480RL, 5760E 410RL	Massive sulphides 237.6 - 265.6m
HL46 A	5833	10849	530	-60W	300.3 EOH	Duplicate intersection off HL46 @ 186.9m	Massive sulphides 237.4 - 293.8m
HL46 B	5853	10849	564	-60W	336.8 EOH	Off HL46 @ 147.0m Test position 5750E 420RL	Massive sulphide 236.0m-282.5m 324.0m-327.1m
HL47	5927	10850	692	-71W	313.4 EOH	Test position 5840E 435RL	Massive sulphides 240.9 - 270.1m
HL47 A	5868	10851	522	-71W	280.1 EOH	Duplicate intersection off HL47 @ 180.0m	Massive sulphides 240.9 - 269.0m
HL48	5960	10700	699	-57W	424.0 EOH	Test positions 5830E 505RL, 5770E 415RL	Massive sulphides 321.3 - 397.5m
HL49	5927	10850	692	-80W	320.8 EOH	Test position 5880E 415 RL	Barren at target position
HL50	5907	10750	700	-56W	371.0 EOH	Test positions 5785E 520RL, 5725E 425RL	Massive sulphides 178.7m-244.0m 303.5m-357.3m
HL51	5527	10712	684	-69E	253.8 EOH	Test position 5605E 475RL	Barren at target position
HL52	5654	10850	682	-69E	278.4 EOH	Test positin 5750E 430RL	Massive sulphides 251.4-260.4m
HL53	5950	10950	684	-75W	400.5 EOH	Test position 5850E 340RL	Massive sulphides 309.2-366.2m
HL54	5730	11213	669	-72S	225.3 EOH	Test position 11050N 5740E 250RL	Stopped to avoid deviation
HL54 A	5717	11145	469	-65S	324.7 EOH	As above	As above

TABLE A

Hole	Co-ords. E metres	Co-ords. N metres	Alt. m.	Decl. deg.	Depth (m)	Objective	Result
HL54 B	5713	11098	381	-58S	489.4 EOH	As above	Barren at target position
HL55	5928	10900	688	-68W	192.0 EOH	Test position 5820E 425RL	Stopped to avoid deviation
HL55 A	5868	10896	529	-71W	342.4 EOH	As above	Massive sulphides 259.5m-322.2m
HL56	5950	10950	684	-64W	396.3 EOH	Test position 5800E 400RL	Massive sulphides 301.9m-340.3m
HL57	5905	10750	700	-47W	356.1 EOH	Test positions 5780E, 550RL; 5670E 450RL	Massive sulphides 176.6-215.5m 337.9-338.6m
HL58	6079	10950	684	-64W	472.5 EOH	Test position 5910E 340RL	Massive sulphides 394.4-338.6m
HL58 A	5952	10955	442	-60W	460.5 EOH	Duplicate intersection off HL58 @ 273.1m	Massive sulphides 398.2-455.7m
HL59	5824	11376	663	-72S	85.9 EOH	Test position 11150N, 5830E 180RL	Stopped to avoid deviation.
HL60	5824	11377	663	-72S	112.5 EOH	As above	As above
HL61	5946	10750	694	-58W	437.4 EOH	Test positions 5820E 490RL, 5760E 390RL	Massive Sulphides 230.6-231.8 318.3-329.0 345.6-389.8
HL62	6032	11148	676	-70W	480.5 EOH	Test position 5830E 180RL	Bad deviation Above target position.
HL63	5629	10600	697	-73E	301.5 EOH	Test position 5700E 460RL	Massive sulphides 223.7-246.6
HL63 A	5676	10597	539	-73E	253.4 EOH	Duplicate intersection off HL63 @ 165.2m	Massive sulphides 221.95-249.35
HL64	6079	10950	684	-71W	514.5 EOH	Test position 5900E 260RL	Massive sulphides 450.7-504.6m
HL65	5628	10600	697	-85E	276.4 EOH	Test position 5650E 475RL	Massive Sulphides 240.4-241.3m

TABLE A

Hole	Co-ords. E N metres	Alt. m.	Decl. deg.	Depth (m)	Objective	Result
HL66	6033 11148	676	-79W	43.8 EOH	Test position 5850E 250RL	Abandoned Stuck rods
HL67	5615 10950	682	-67E	327.6 EOH	Test position 5740E 360RL	Barren at target position
HL68	5760 10600	715	-90	175.5 EOH	Test Position 5760E 530RL	Barren at target position
HL69	6033 11148	676	-80W	629.6 EOH	Test position 5850E 250RL	Barren at target position
HL70	5604 10650	693	-63E	372.5 EOH	Test position 5725E 450RL	Massive Sulphides 223.95-306.7m
HL70A	5680 10647	534	-64E	315.9 EOH	Duplicate intersection off HL70 @ 176.6m	Massive Sulphides 224.2-309.5m
HL71	5650 10400	681	-90	148.6 EOH	Test position 5650E 550RL	Barren at target position
HL72	5604 10650	693	-55E	277.5 EOH	Test positions 5750E 490RL	Massive Sulphides 197.05-265.5m
HL73	5673 10350	687	-90	172.6 EOH	Test positions 5675E 560RL	Massive Sulphides 105.6-140.8m
HL74	5625 10350	679	-90	131.7 EOH	Test positions 5625E 560RL	Massive Sulphides 102.8-106.1m
HL75	5603 10650	693	-72E	316.5 EOH	Test position 5675E 450RL	Massive Sulphides 248.15-289.4m
HL76	5660 10300 Approx	685	-90	131.8 EOH	Test position 5660E 590RL	Barite/sulphide 76.2-93.2m
HL77	5603 10650 Approx	693	-85E	256.5 EOH	Test position 5625E 450RL	Barren at target position
HL22 Ext'n	5641 10999	684	-69	514.5-623.5 EOH	Test position 10950N 5900E 175RL	Barren at target position

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	NORTHING	EASTING	RL	DDH NO.
1	5396638.459	393349.730	686.400	HL18
1	5396640.875	393342.726	686.000	HL19
1	5396527.367	393123.177	683.800	HL20
1	5396594.691	393196.729	690.400	HL21
1	5396749.461	393337.339	684.000	HL22
1	5396844.074	393374.289	675.000	HL23
1	5396638.566	393350.528	686.300	HL24
1	5396672.912	393310.105	681.400	HL25
1	5396673.491	393309.477	681.500	HL26
1	5396304.895	393105.577	687.400	HL27
1	5396638.176	393350.693	686.400	HL28
1	5396304.970	393105.392	687.500	HL29
1	5396731.721	393117.657	681.200	HL30
1	5396504.720	393676.599	685.500	HL31
1	5396353.924	393117.955	691.900	HL32
1	5396592.301	393195.974	690.900	HL33
1	5396353.774	393118.325	691.800	HL34
1	5396505.409	393676.232	685.600	HL35
1	5396354.168	393117.622	691.800	HL36
1	5396482.779	393444.420	697.300	HL37
1	5396264.644	393060.188	675.700	HL38
1	5396458.249	393509.012	696.400	HL39
1	5396802.663	393473.240	682.600	HL40
1	5396457.968	393509.437	696.600	HL41
1	5396264.905	393060.078	675.700	HL42
1	5396238.151	393137.039	686.300	HL43
1	5396375.081	393463.549	707.900	HL44
1	5396802.718	393473.370	682.700	HL45
1	5396504.194	393545.170	691.800	HL46
1	5396504.043	393545.541	691.700	HL47
1	5396352.728	393520.394	698.900	HL48
1	5396503.930	393545.818	691.800	HL49
1	5396418.820	393489.207	700.200	HL50
1	5396526.770	393123.582	684.200	HL51
1	5396609.955	393285.268	682.300	HL52
1	5396587.821	393604.632	683.600	HL53
1	5396914.391	393500.206	669.500	HL54
1	5396549.671	393565.491	687.900	HL55
1	5396587.934	393604.354	683.700	HL56
1	5396419.402	393488.041	700.400	HL57
1	5396539.390	393724.036	683.700	HL58
1	5397029.744	393648.855	662.900	HL59
1	5397030.838	393649.084	662.900	HL60
1	5396404.434	393525.658	694.400	HL61
1	5396740.416	393755.903	675.800	HL62
1	5396384.158	393175.242	697.200	HL63
1	5396539.314	393724.221	683.600	HL64
1	5396384.401	393174.909	697.200	HL65
1	5396740.303	393756.180	675.700	HL66
1	5396714.322	393294.243	682.100	HL67
1	5396334.896	393297.222	714.600	HL68
1	5396739.877	393755.900	675.800	HL69
1	5396440.520	393171.177	692.600	HL70
1	5396191.154	393119.660	680.800	HL71
1	5396440.445	393171.362	692.500	HL72
1	5396136.695	393122.232	687.200	HL73
1	5396154.408	393078.393	679.200	HL74
1	5396440.633	393170.899	692.500	HL75
1	5396092.305	393093.397	684.300	HL76
1	5396440.821	393170.436	692.800	HL77

TABLE B

HELLYER DRILLING

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		
	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				BARREN								
	395.93	399.75	3.82	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 25 NOV 1984
Authorised By

KGP/Melbourne/21.9.84

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HELLYER DRILLING

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/23/11/84

Outlines and Data Current at 26 NOV 1984

Authorised By KG Palmer

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HELLYER DRILLING

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	1.55	26.70	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

HELLYER DRILLING

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	30.42	0.14
	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	16.11	153	2.56	0.78	0.97
	214.0	218.0	4.0	STRINGER	3.88	0.14	4.26	7.70	52	1.02	0.14	1.12

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HELLYER DRILLING

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								

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HELLYER DRILLING

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	[illegible]	[illegible].08

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HELLYER DRILLING

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								
HL 58A	398.2	455.65	57.45	BMS								
HL 59				NIL								
HL 60				NIL								
HL 61	230.6	231.8	1.2	BMS								
	318.3	329.0	10.7	BMS								
	345.6	389.8	44.2	BMS								
	389.8	392.8	3.0	STRINGER								
HL 62				NIL								
HL 63	223.0	246.6	23.6	BMS/TETSU/BA								
	223.0	223.7	0.7	BA								
	223.7	225.4	1.7	TETSU								
	225.4	246.6	21.2	BMS								

KGP/MELBOURNE/23/11/84

HELLYER DRILLING

HOLE NO	FROM	TO	I WIDTH	INTERSECTION TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 63A	221.95	249.35	27.4	BMS/TETSU/BA								
	221.95	222.5	0.55	BA								
	222.5	223.6	1.1	TETSU								
	223.6	249.35	25.75	BMS								
HL 64	450.7	504.6	53.9	BMS								
HL 65	240.4	241.3	0.9	BMS								
HL 66				NIL								
HL 67				BARREN								
HL 68				BARREN								
HL 69				BARREN								
HL 70	223.95	306.7	82.75	BMS								
HL 70A (Wedge)	224.2	309.5	85.3	BMS								
HL 71				BARREN								
HL 72	197.05	265.5	68.45	BMS/BA								
	197.05	206.6	9.55	BA								
	206.6	265.6	58.9	BMS								
HL 73	105.6	126.3	20.7	BMS								
	131.7	140.8	9.1	BMS								
HL 74	102.8	106.1	3.3	BMS								

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K G Palmer

HELLYER DRILLING

HOLE NO	FROM	TO	I WIDTH	INTERSECTION TYPE	SG	% Cu	% Pb	% Zn	g/t Ag	g/t Au	% Ba	% As
HL 75	248.15	289.4	41.25	BMS/BA								
	248.15	250.2	2.05	BA								
	250.2	289.4	39.2	BMS								
HL 76	76.2	93.2	17.0	BA/BMS								
HL 77				BARREN								

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Outlines and Data Current at 26 NOV 1984

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D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
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 Phyric lappilli tuff/breccia Sequence.
Altered.
EOH 10419N 5606E 508RL

BARREN

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	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

0.0-170.1 Que River Sequence.
0-21.2 Black Shale
21.2-31.8 Epiclastic
31.8-170.1 Black Shale
170.1-171.5 Contact zone
171.5-263.5 Pillow Lava Sequence.
263.5-273.9 Hanging Wall Volcaniclastics
273.9-293.8 Base metal sulphides.
288-293.8 talc <10%
293.8-374.6 Stringer zone.
Includes non stringer base metal sulphides
320.6-324
EOH 10893N 5757E 317RL

RL OF INTERSECTION

397
to
416.7

367.2
to
370.6

INTERSECTION

273.9-293.9m
20.0m: BMS
0.05% Ba
0.4% Cu
7.74% Pb
13.23 Zn
214 g/t Ag
3.08g/t Au
(s.g.: 4.30)
293.9-323.2m
STRINGER
0.04% Ba
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 NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
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
5.73% 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
19.64% Zn
221g/t Ag
1.48g/t Au
0.89% As
(s.g.: 4.62)

DDJ

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
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 EOH	13614.2	10800N	0-31.2m Que River Shale 31.2-136.8m Pillow Lava Sequence Intense fuchsite 119.1m-136.8m 136.8-150.1m Barite/BMS 150.1-196.4m BMS H/W 10797N 5790E 570 RL F/W? 10800N 5767E 515 RL Last 10m well banded averaging 32° to C.A. This coupled with 10900N H/W position results in most likely min dip of 50° to 030° 196.4-264.4m Pillow Lava Sequence Major fault 200-201.5m 264.4-285.5m Hanging Wall Volcaniclastics including 279.3-280.3m Barite 285.5-286.4m BMS Sericite rich 286.4-288.3m Sericite rock Minor base metals 288.3-289.5m BMS Sericite rich, well banded 55° to C.A. 289.5-296.5m Chlorite Stringer 296.5-304.8m Sericite Stringer 304.8-335.2m Porphyritic dacite. EOH 10810N 5712E 389 RL	136.8-150.0m 13.2m: BARITE 13.79% Ba 0.31% Cu 6.25% Pb 9.68% Zn 258g/t Ag 2.93g/t Au 0.21% As (s.g.: 4.32) 150.0-196.4m 46.4m: BMS 2.03% Ba 0.67% Cu 10.48% Pb 16.15% Zn 84g/t Ag 2.62 g/t Au 0.31% As (s.g.: 4.59) 285.5-289.5m 4.0m: BMS 1.05% Ba 0.36% Cu 5.08% Pb 9.36% Zn 457g/t Ag 3.36g/t Au 2.64% As (s.g.: 3.72%) GJMCA

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

GEOLOGY/MINERALISATION

Ø-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.ØM BMS F/W 10452N 5687E 503 RL
(grades into Stringer below)
210.Ø-224.1m Sericite-illite altered Stringer Zone
Base metal veins 210.Ø-216.6m
224.1-238.2m Footwall volcaniclastics
238.2-265.9m Porphyritic dacite
EOH 10454N 5720E 459 RL

RL OF INTERSECTION

INTERSECTION

153.8-158.Øm
4.2m: BARITE
30.4% Ba
Ø.14% Cu
1.53% Pb
2.73% Zn
109g/t Ag
3.08g/t Au
Ø.15% As
(s.g.: 4.07)
158.Ø-210.Øm
52m: BMS
2.47% Ba
Ø.66% Cu
6.47% Pb
20.39% Zn
164g/t Ag
3.02g/t Au
1.2% As
(s.g.: 4.51)

GJMcA

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

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

RL OF INTERSECTION

INTERSECTION

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)

GJMcA

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	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

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 BMS
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 BMS
H/W 10812N 5767E 425 RL
F/W 10815N 5755E 403 RL
332.9-339.2m Massive pyrite/Stringer with minor BMS
339.2-352.4m Chlorite-Sericite Stringer
352.4-366.2m Porphyritic dacite
EOH 10819N 5739E 374 RL

RL OF INTERSECTION

INTERSECTION

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: BMS
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

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

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 BMS
H/W 11039N 5878E 266RL
465.1-467.0m Footwall Volcaniclastic Sequence
467.0-473.1m BMS
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

RL OF INTERSECTION

INTERSECTION

443.3-473.1m
29.8m: BMS
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

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	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

Ø-22.7m Que River Shale
22.7-219.4m Pillow Lava Sequence
Fuchsite 22.7-116m, 212-219.4m
219.4-228.3m BMS
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: BMS
Ø.29% Ba
Ø.21% Cu
4.94% Pb
14.05% Zn
137g/t Ag
1.23g/t Au
Ø.76% As
(s.g.: 4.54)

GJMcA

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

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

RL OF INTERSECTION

INTERSCTION

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

Ø-186.1m Pillow Lava Sequence
186.1-216.9m Pillow Lava/Upper Andesite intercalated
216.9-229.7m BMS
H/W 10701N 5787E 522RL
229.7-243.5m Barite/BMS
F/W 10702N 5774E 500RL
243.5-254.Øm Siliceous Stringer Zone
Good base metal veins
Major Fault 252.9-254.6m
254.Ø-255.9m Fuchsite altered Pillow Lava
255.9-267.2m Barite (minor hanging wall tuff at top)
267.2-268.3m Fuchsite altered Pillow Lava
268.3-269.6m Hangingwall Volcaniclastic with Barite
269.6-272.7m Barite/BMS
272.7-292.Øm Glassy silica/BMS
(Tetsusekiei?) (as in HL5, HL7)
292.Ø-322.Øm BMS (grades from unit above)
322.Ø-347.Øm BMS
347.Ø-352.Øm Polymict breccia (uncorrelated)
352.Ø-365.1m BMS
F/W 10712N 5711E 395RL
365.1-371.9m Sericite-Chlorite Stringer Zone
Major fault 364.6-369.6m
371.9-394.Øm Porphyritic dacite
EOH 10714N 5697E 370RL

RL OF INTERSECTION

INTERSECTION

216.9-243.5m
26.6m: BA/BMS
12.35% Ba
Ø.23% Cu
8.ØØ% Pb
14.36% Zn
256g/t Ag
2.91g/t Au
Ø.65% As
(s.g.: 4.43)
255.9-365.1m
109.2m:BMS/TETSU/BA
4.Ø7% Ba
Ø.26% Cu
6.59% Pb
1Ø.Ø9% Zn
192g/t Ag
2.51g/t Au
Ø.66% As
(s.g.: 4.21)
268.3-314.Øm
45.7m: TETSU/BMS
3.Ø5% Ba
Ø.32% Cu
5.15% Pb
7.55% Zn
175g/t Ag
3.36g/t Au
Ø.46% As
(s.g.: 3.88)

.../..

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

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	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL44A (wedge)	10700N	5899E	554	270	-59W	4.8.84	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

GJMcA

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

Ø-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

RL OF INTERSECTION

INTERSECTION

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

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

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

GEOLOGY/MINERALISATION

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
EOH 10851N 5726E 424RL
(Unexpected severe lift deviation 165-225m unfortunately meant hole was 15m west of target)

RL OF INTERSECTION

INTERSECTION

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 EOH	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
EOH 10855N 5823E 396RL

RL OF INTERSECTION

INTERSECTION

240.9-243.65M
2.75M: BARITE
17.95% Ba
0.32% Cu
7.80% Pb
11.79% Zn
237g/t Ag
1.91g/t Au
0.33% As
(s.g.: 4.42)
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 NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
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	ELEV-ATION	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
23.7-237.1m Pillow Lava Sequence
Strong silica-K-feldspar alteration
209.8-237.1
237.1-267.6m Hanging Wall Volcaniclastics Sequence
276.6-282.0m Footwall Volcaniclastics Sequence
282.0-314.1m Sericite-chlorite Stringer Zone
314.1-315.4m Major fault (Jack Fault?)
315.4-321.3m Siliceous Stringer Zone
321.3-397.5m BMS (highly mineralised!)
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 NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL49	10850N	5927E	692	274	-80W	18.8.84	23.8.84	320.8 EOH	18582.3	10850N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

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 Phyric/Dacite tuff lava
EOH 10855N 5873E 376RL

GJMcA

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 BMS (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 BMS (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

DDJ

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

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

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

GJMcA

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL52	10850N	5645E	682	87	-69E	23.8.84	28.8.84	276.4 EOH	19483.5	10850N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

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!)

GJMcA

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	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	19884.0	10950N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

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

GJMcA

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL54	11213N	5703E	699	182	-72S	1.9.84	6.9.84	225.3 EOH	20109.3	11050N

GEOLOGY/MINERALISATION

RL OF INTESECTION

INTERSECTION

Ø-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

DDJ

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL54A (wedge)	11145N	5717E	469	190	-65S	6.9.84	10.9.84	212.8 to 324.7 111.9m	20221.2	11050N

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

DDJ

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	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

RL OF INTERSECTION

INTERSECTION

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 Phyric Sequence
EOH 10984N 5690E 249RL

DJJ

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL55	10900N	5928E	688	270	-68W	4.9.84	10.9.84	192.0 EOH	20590.0	10900N

GEOLOGY/MINERALISATION

RL OF INTERSECTION

INTERSECTION

Ø-63.9m Que River Shale
63.9-192.Øm Pillow Lava Sequence
Hole stopped to install HQ casing wedge to correct steepening deviation
EOH 10896N 5861E 508RL

GJMcA

050

D.H. NO.	CO-ORDINATES NORTH	EAST	ELEV-ATION	GRID BRG	ANGLE	COMMENCE	COMPLETE	DEPTH METRES	CUMULATIVE METRES	SECTION
HL55A (Wedge)	10893N	5868E	529	266	-71W	10.9.84	14.9.84	169.8 to 342.4 172.6m	20762.6	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

GJMcA

256052

051

256053

10300 N
10400 N
10500 N
10600 N
10700 N
10800 N
10900 N
11000 N
11100 N
11200 N
11300 N
11400 N

GRID NORTH

5400 E
5500 E
5600 E
5700 E
5800 E
5900 E
6000 E

HL 14
HL 20
HL30
HL 17
HL 74
HL42
HL4A
HL36
HL51
HL77
HL 71
Western limit ?
HL 16
HL21
HL 9
HL 76
HL65
HL 29
HL 12
HL 75
HL 10
HL73
HL38
HL32
HL33
HL26
HL 3
HL9
HL 6
HL54
HL 27
HL63
HL 70
HL44
HL43
HL34
HL7
HL44A
HL 48
HL52
HL 18
HL67
HL50
HL61
HL 72
JACK FAULT
HL57
HL14
HL 68
HL13
HL46
HL 5
HL 24
HL 39
HL37
HL 6
HL50
HL 46A
HL55
HL56
HL 28
HL35A
HL23
HL47A
HL22
HL 15
Eastern limit ?
HL41
HL 47
HL 69
HL53
HL 58A
HL40
HL49
HL64
HL58
HL 15
HL31
HL 11
HL 45

0 100 200
METRES

LEGEND

- Ore Mineralization
- Stringer Intersection
- Barren Ore Position
- RL 550 — Structure Contour on middle of Ore

PROPOSED DIAMOND DRILL HOLE TARGET POSITIONS

- Target Position - To be drilled
- Hole Complete - Mineralization
- Hole Complete - Stringer Zone
- Hole Complete - Barren

5 cm

Aberfoyle Exploration Pty Ltd

REVISIONS			
Init.	Date	Init.	Date
G.L.C.	14·6·84	GLC	19·10·84
R.J.E.	2·7·84	ACD	21·11·84
GLC	25·7·84		
GLC	14·8·84		
GLC	27·8·84		
RJE	25·9·84		

Location Code: K 55/6

TASMANIA

MACKINTOSH E.L. 2/70

'HELLYER'

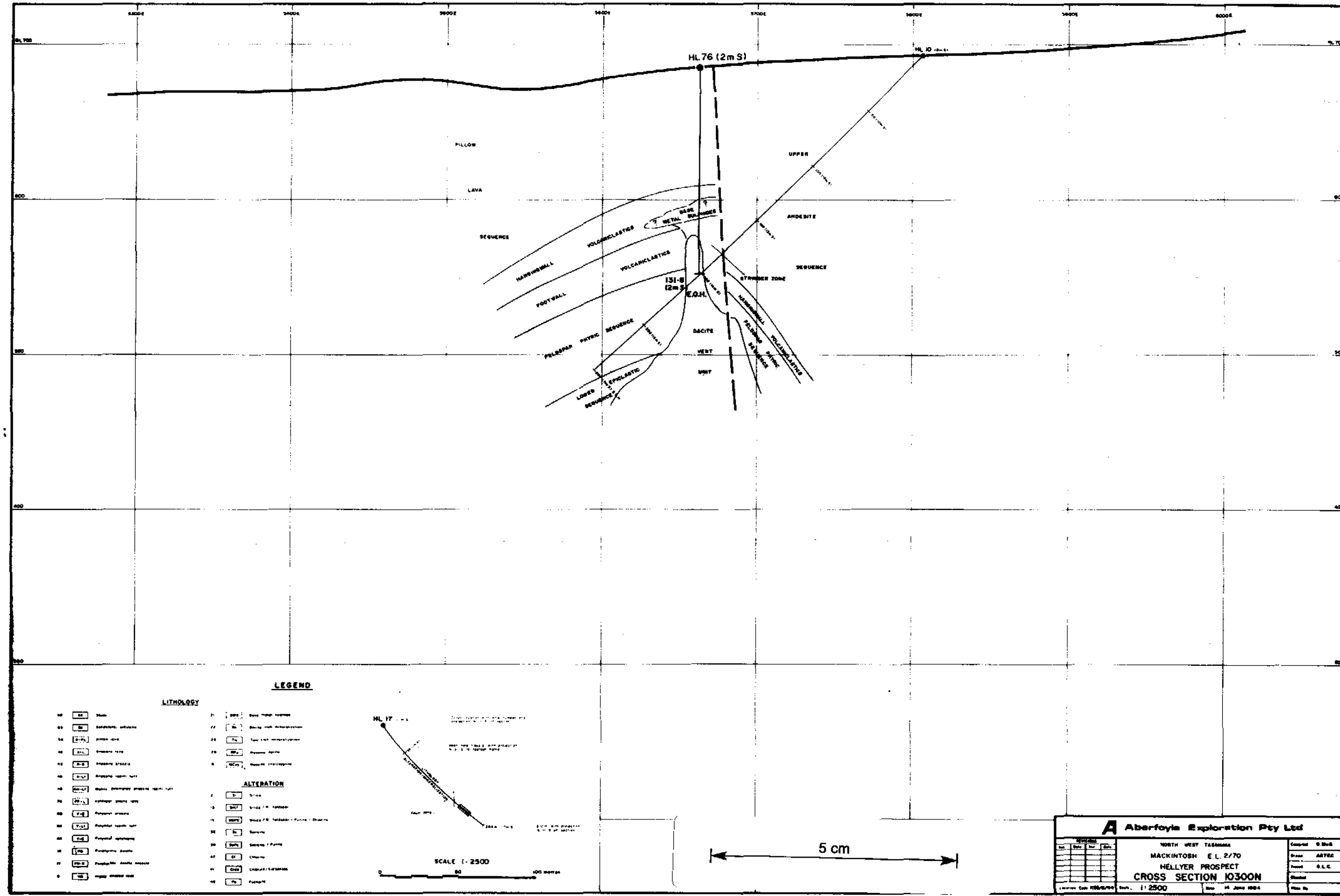
SECTION - PLAN PROJECTION

Scale: As above

Date: 14·6·1984

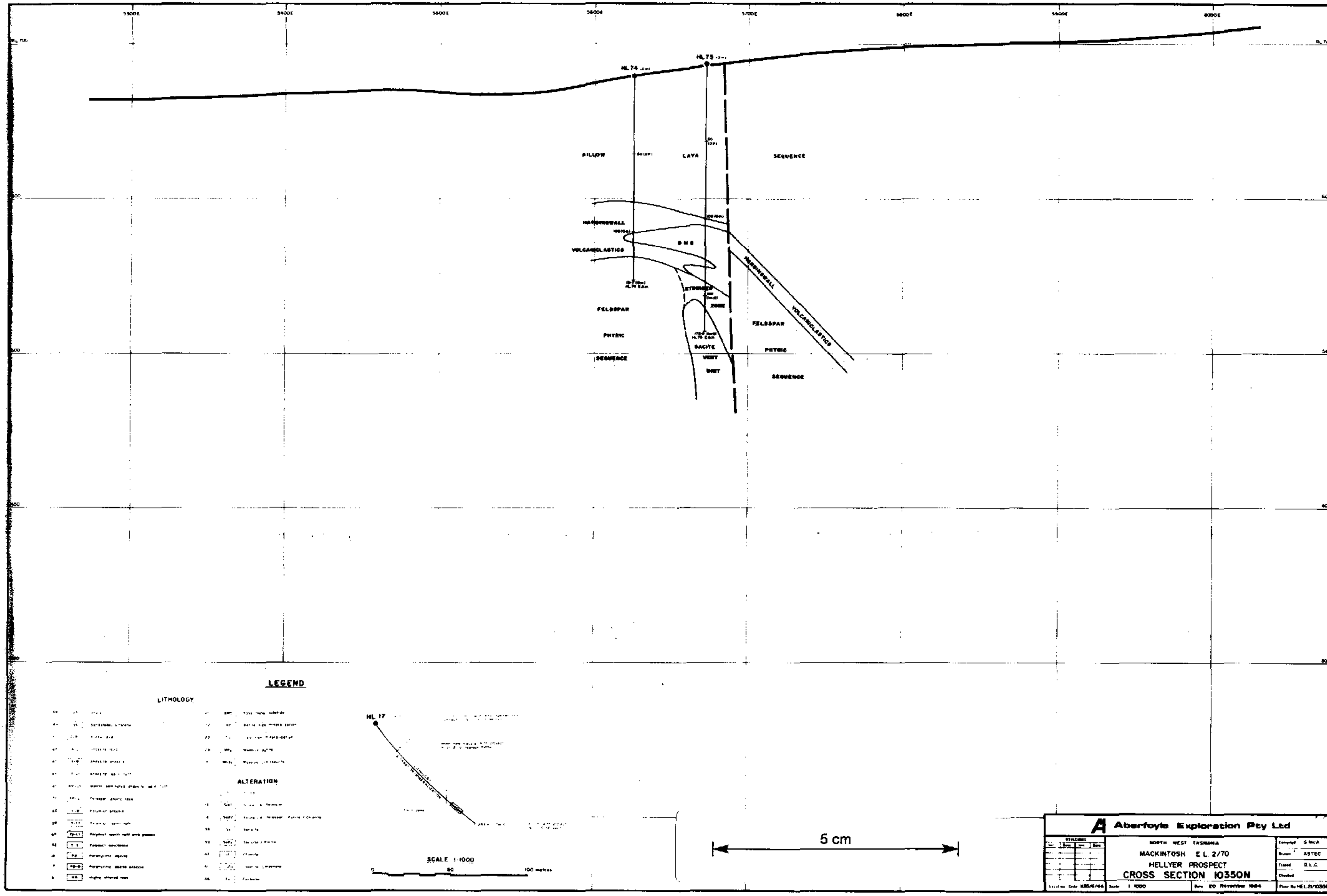
Compiled: GMCA
Drawn: GMCA
Traced: ACD
Checked: RJE
Plate No: HEL 15

RMO 555

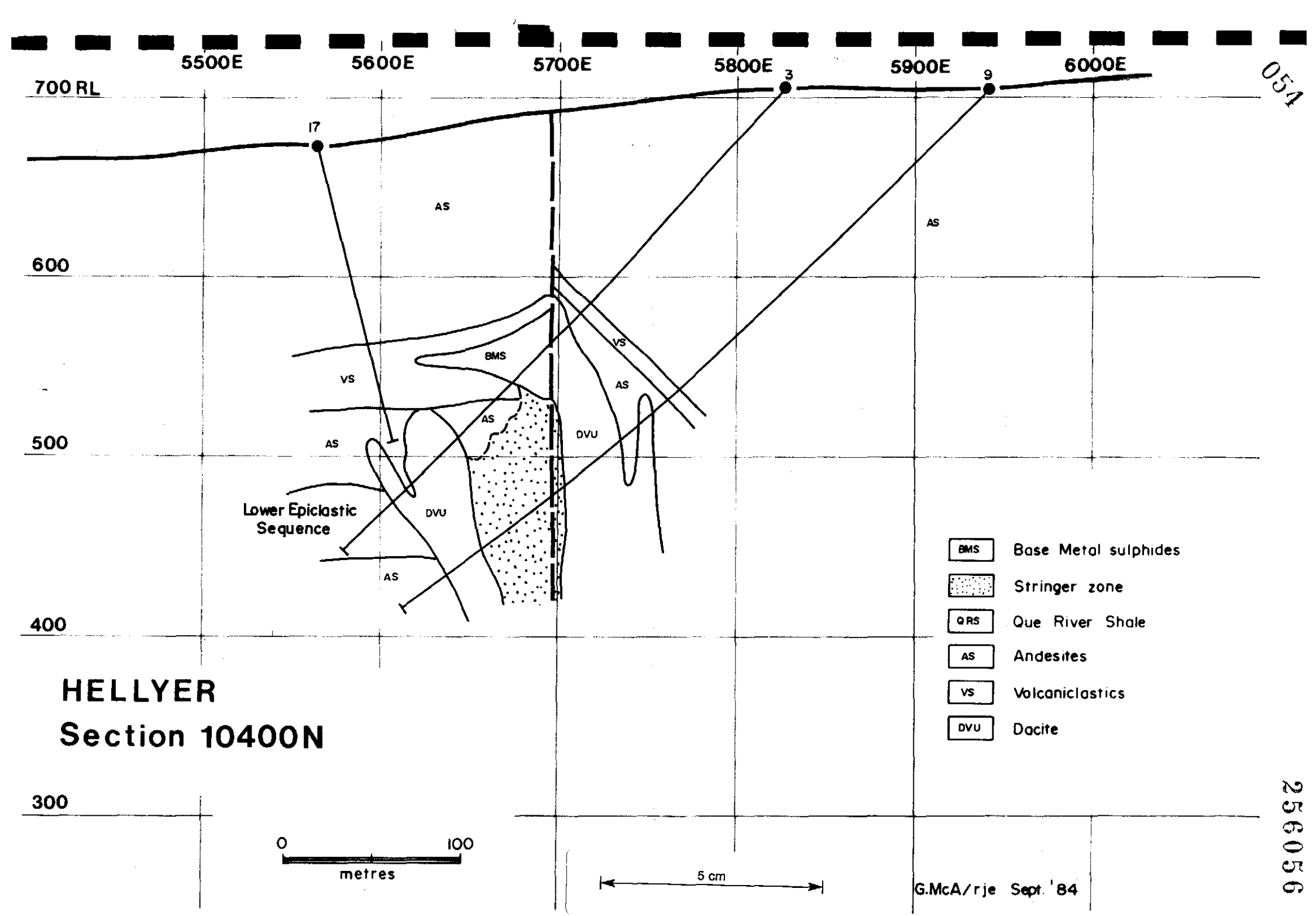

HL 76 (2m S)
HL 10
PILLOW
LAVA
SEQUENCE
UPPER
ANDESITE
SEQUENCE
? BASE METAL SULPHIDES ?
HANGINGWALL VOLCANICLASTICS
FOOTWALL VOLCANICLASTICS
FELDSPAR PHYRIC SEQUENCE
131·8 (2m S)
E.O.H.
STRINGER ZONE
HANGINGWALL VOLCANICLASTICS
FELDSPAR PHYRIC SEQUENCE
DACITE
VENT
UNIT
EPICLASTIC
LOWER SEQUENCE
LEGEND
LITHOLOGY
ALTERATION
SCALE 1:2500
0
50
100 metres
5 cm
Aberfoyle Exploration Pty Ltd
NORTH WEST TASMANIA
MACKINTOSH E.L. 2/70
HELLYER PROSPECT
CROSS SECTION 10300N
1:2500
HEL 22/10300N

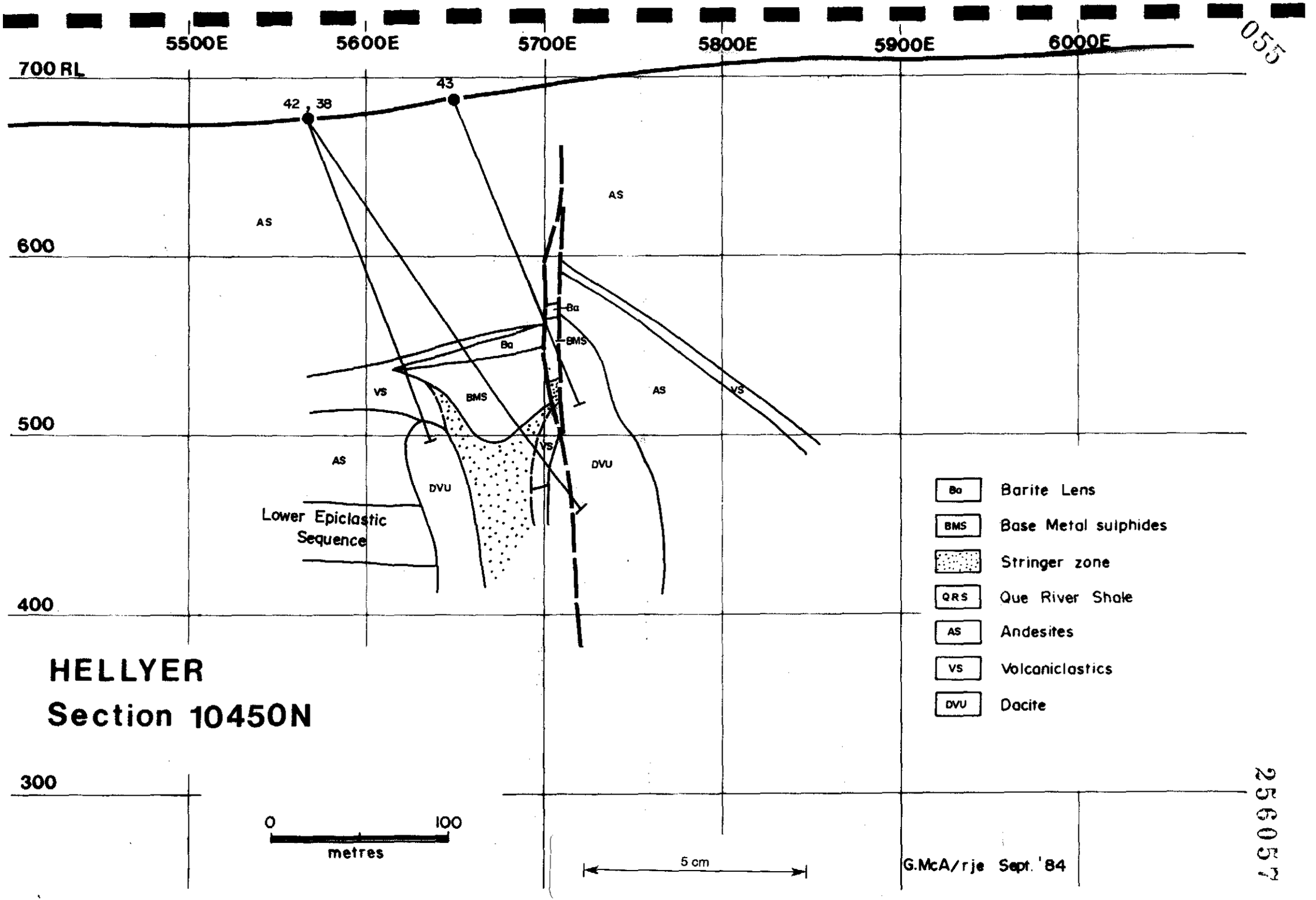
256054

053


HL 74
HL 75
PILLOW
LAVA
SEQUENCE
HANGINGWALL
VOLCANICLASTICS
BMS
STRINGER
ZONE
FELSPAR
PHYRIC
SEQUENCE
DACITE
VENT
UNIT
HANGINGWALL
VOLCANICLASTICS
FELSPAR
PHYRIC
SEQUENCE
LEGEND
LITHOLOGY
ALTERATION
HL 17
SCALE 1:1000
100 metres
5 cm
Aberfoyle Exploration Pty Ltd
NORTH WEST TASMANIA
MACKINTOSH E.L. 2/70
HELLYER PROSPECT
CROSS SECTION 10350N
ASTEC
D.L.C.
20 November 1984

256055


5500E
5600E
5700E
5800E
5900E
6000E
700 RL
600
500
400
300
17
3
9
AS
VS
BMS
DVU
Lower Epiclastic Sequence
HELLYER
Section 10400N
BMS Base Metal sulphides
Stringer zone
QRS Que River Shale
AS Andesites
VS Volcaniclastics
DVU Dacite
0
100
metres
5 cm
G.McA/rje Sept. '84
054
256056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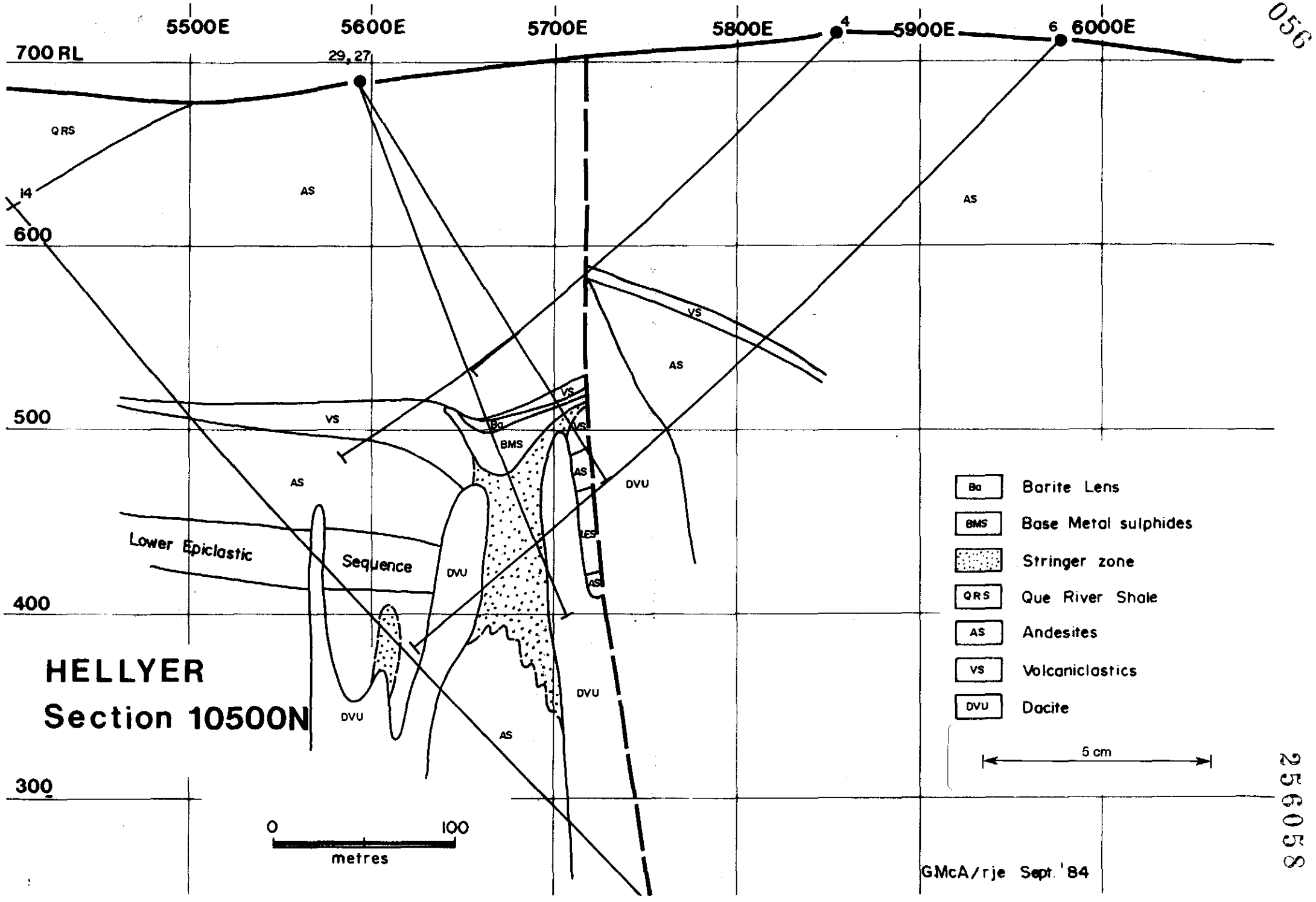
5600E
5700E
5800E
5900E
6000E
700 RL
600
500
400
300
42
38
43
AS
AS
AS
Ba
BMS
Ba
VS
BMS
AS
VS
VS
AS
DVU
DVU
Lower Epiclastic Sequence
HELLYER
Section 10450N
Ba Barite Lens
BMS Base Metal sulphides
Stringer zone
QRS Que River Shale
AS Andesites
VS Volcaniclastics
DVU Dacite
0
100
metres
5 cm
G.McA/rje Sept. '84
055
256057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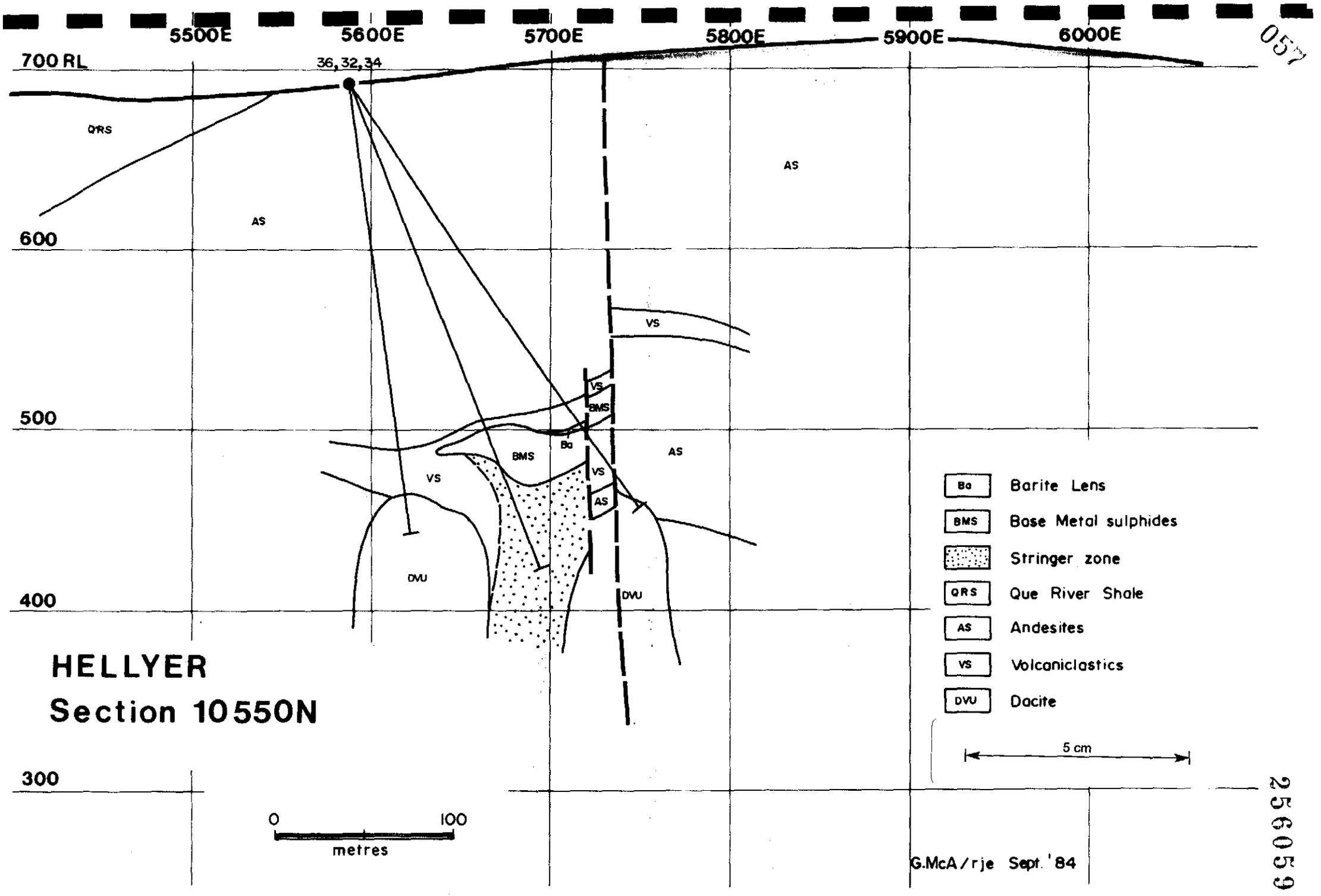
5600E
5700E
5800E
5900E
6000E
700 RL
600
500
400
300
29, 27
4
6
14
QRS
AS
VS
Ba
BMS
DVU
LES
Lower Epiclastic
Sequence
HELLYER
Section 10500N
0
100
metres
Barite Lens
Base Metal sulphides
Stringer zone
Que River Shale
Andesites
Volcaniclastics
Dacite
5 cm
GMcA/rje Sept. '84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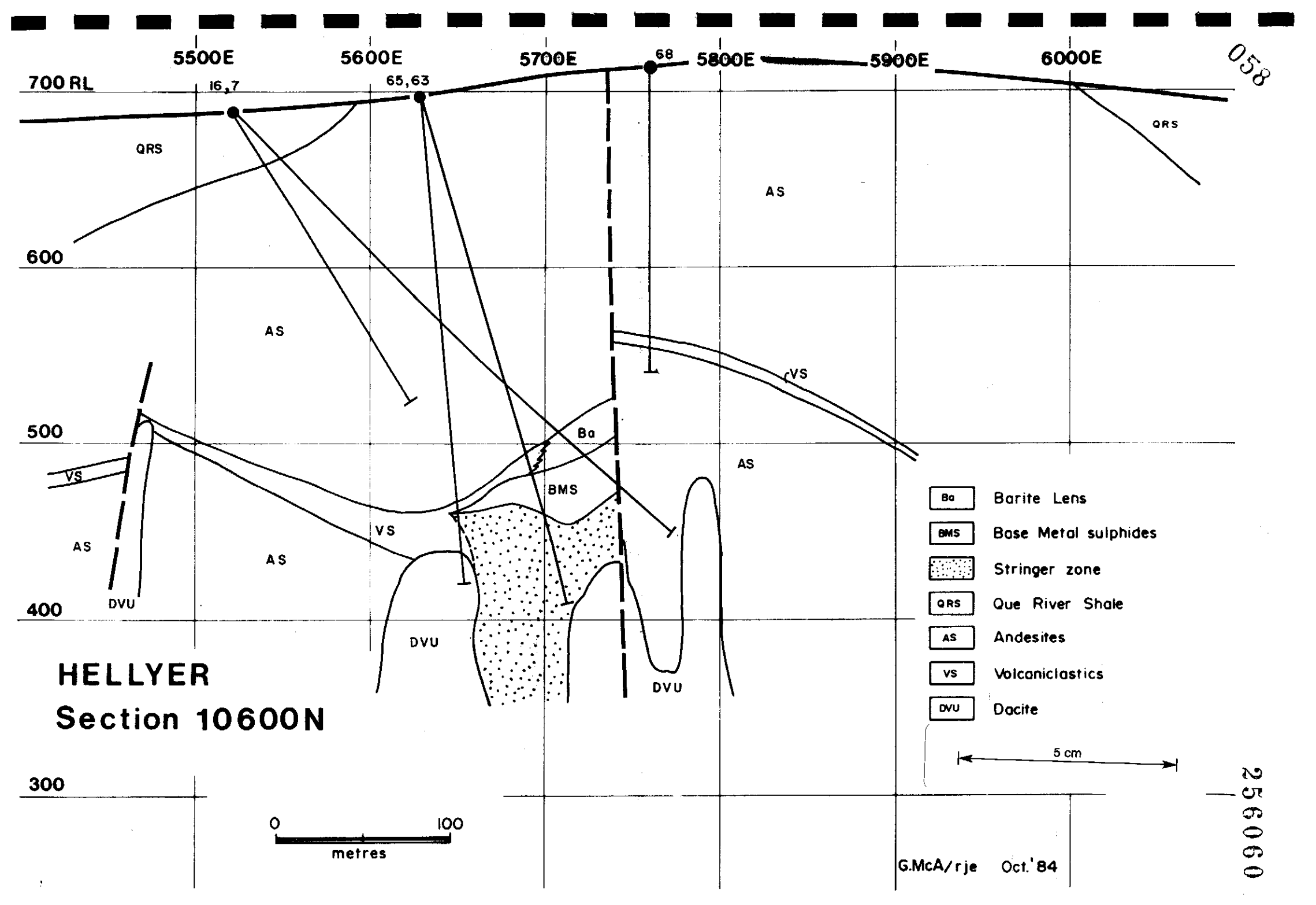
5600E
5700E
5800E
5900E
6000E
700 RL
600
500
400
300
36,32,34
QRS
AS
VS
BMS
Ba
DVU
HELLYER
Section 10550N
Barite Lens
Base Metal sulphides
Stringer zone
Que River Shale
Andesites
Volcaniclastics
Dacite
5 cm
0
100
metres
G.McA/rje Sept. '84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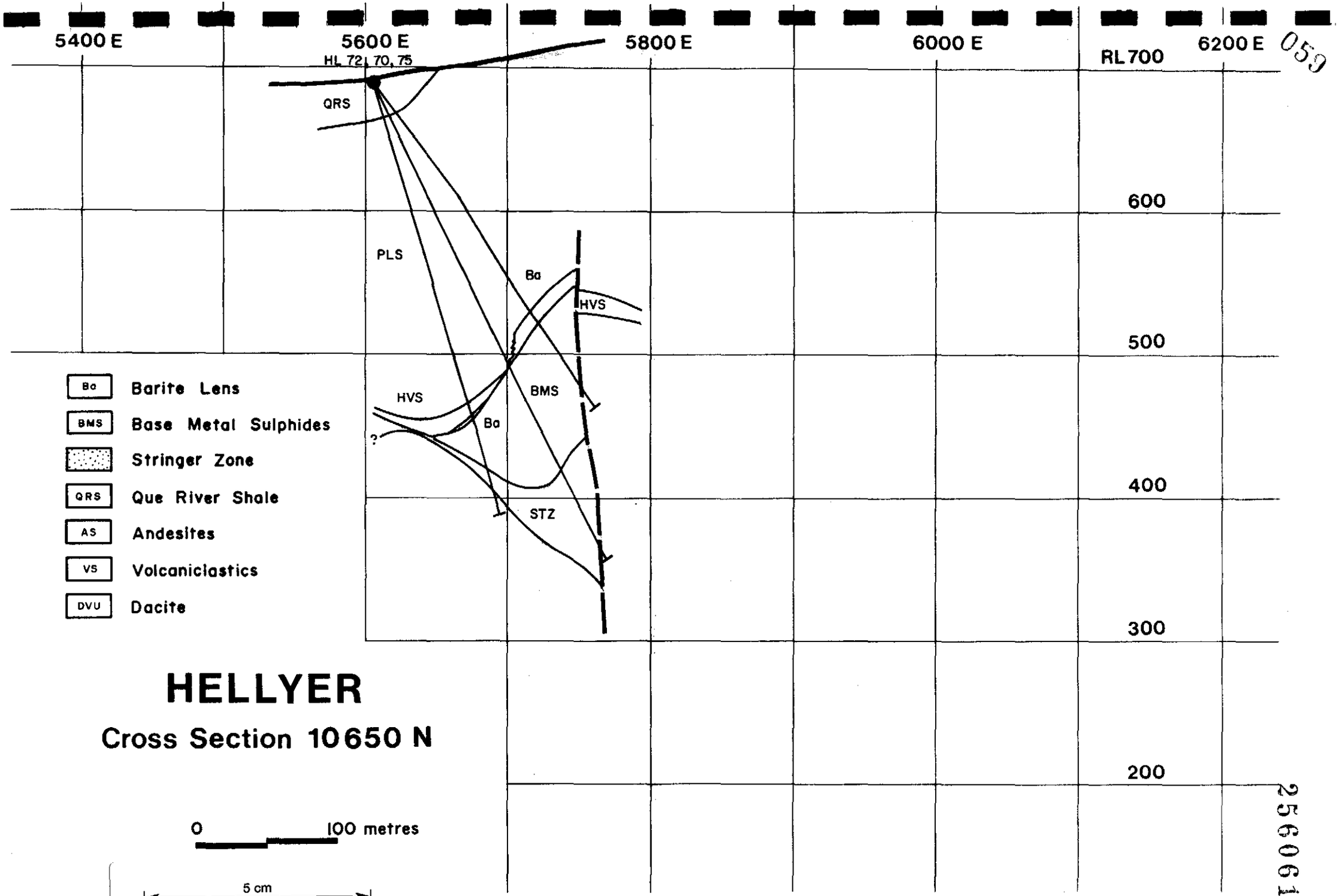
5600E
5700E
5800E
5900E
6000E
700 RL
600
500
400
300
16,7
65,63
68
QRS
AS
VS
Ba
BMS
DVU
HELLYER
Section 10600N
Barite Lens
Base Metal sulphides
Stringer zone
Que River Shale
Andesites
Volcaniclastics
Dacite
5 cm
0
100
metres
G.McA/rje Oct.'84
058
256060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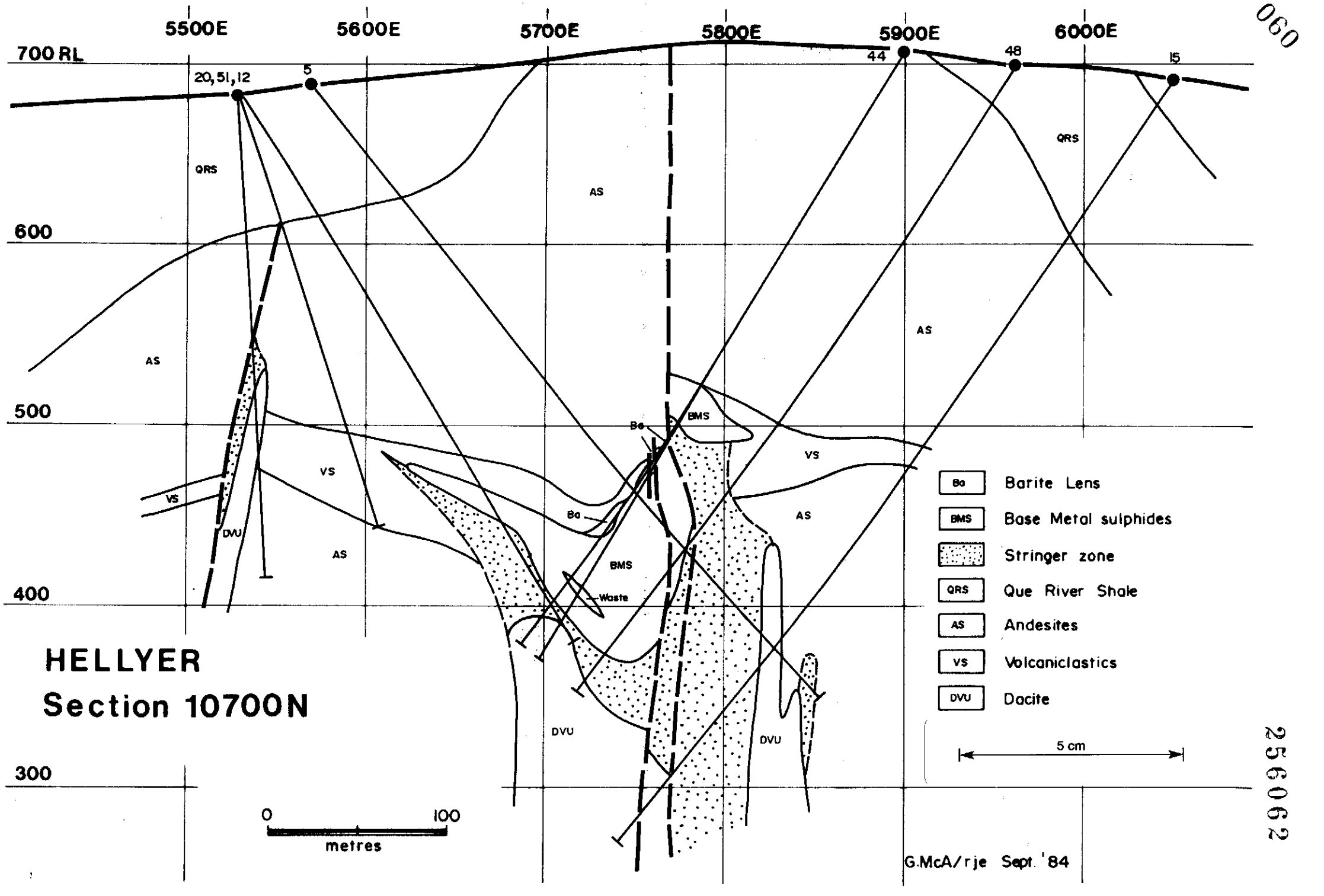
5600 E
5800 E
6000 E
6200 E
RL 700
600
500
400
300
200
HL 72, 70, 75
QRS
PLS
Ba
HVS
BMS
STZ
?
Ba
Barite Lens
BMS
Base Metal Sulphides
Stringer Zone
QRS
Que River Shale
AS
Andesites
VS
Volcaniclastics
DVU
Dacite
HELLYER
Cross Section 10650 N
0
100 metres
5 cm

059

256061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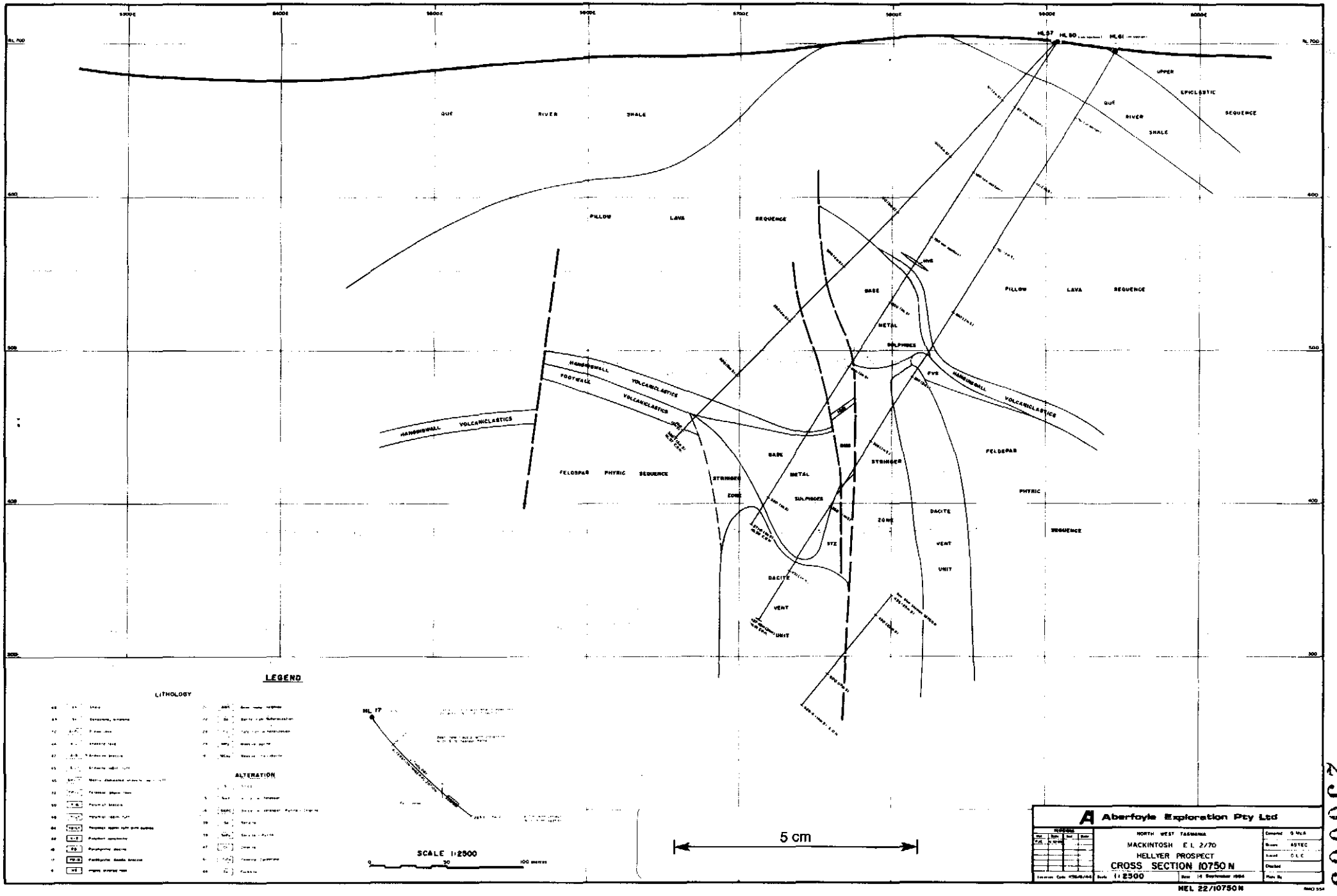
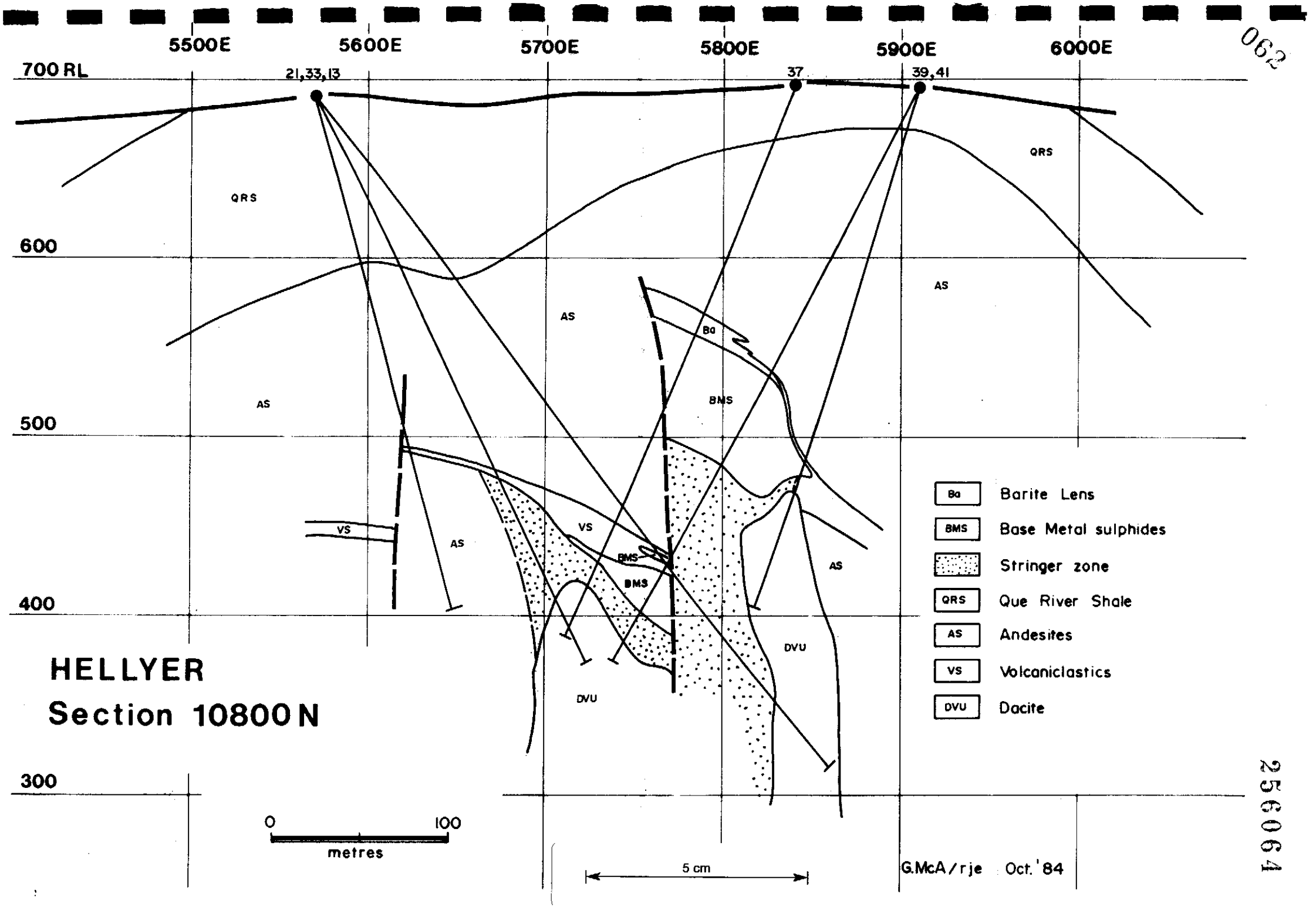
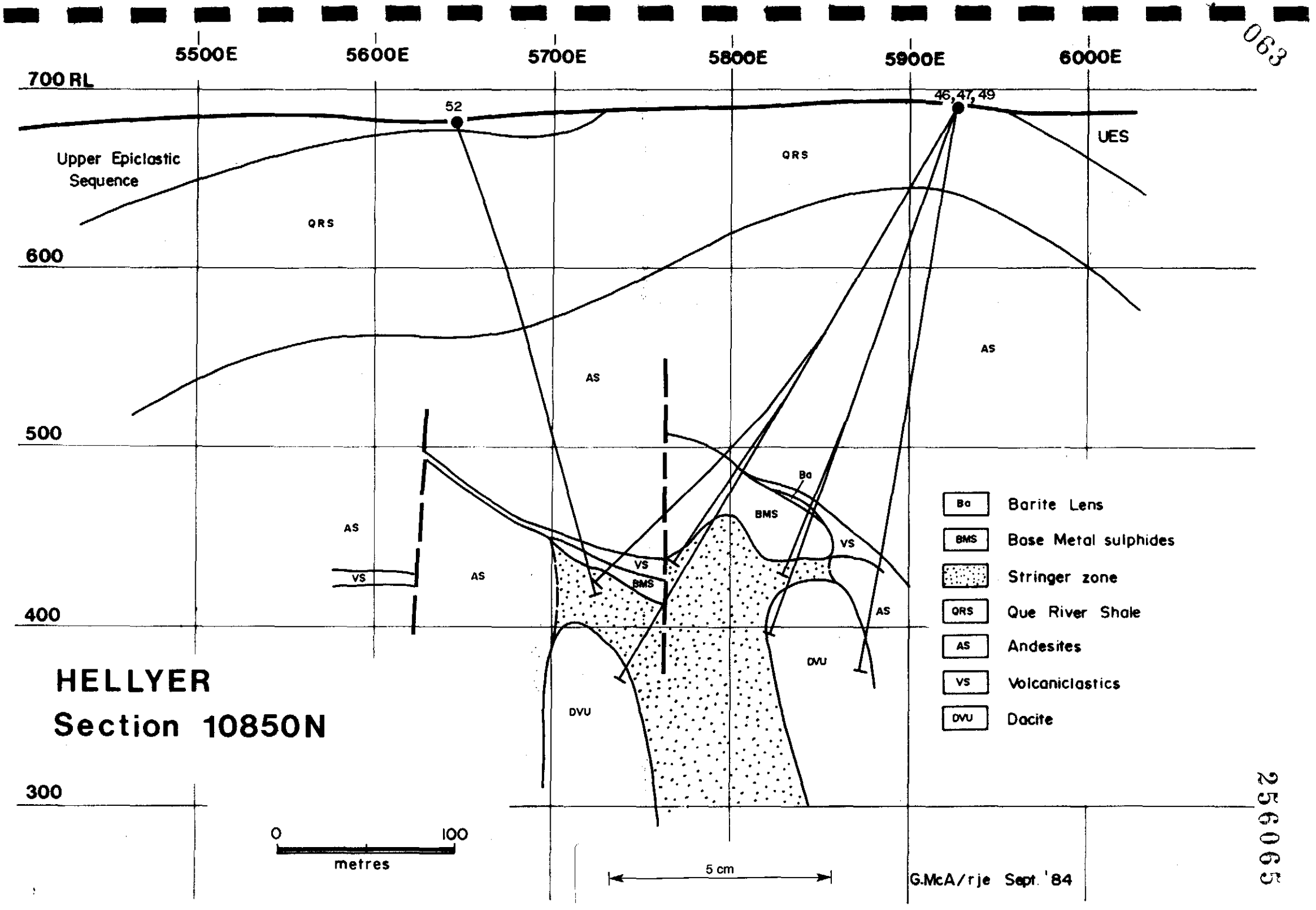
5600E
5700E
5800E
5900E
6000E
700 RL
600
500
400
300
20,51,12
5
44
48
15
QRS
AS
VS
DVU
Ba
BMS
Waste
Barite Lens
Base Metal sulphides
Stringer zone
Que River Shale
Andesites
Volcaniclastics
Dacite
5 cm
0
100
metres
HELLYER
Section 10700N
G.McA/rje Sept. '84
060
2560062


5300E
5400E
5500E
5600E
5700E
5800E
5900E
6000E
RL 700
600
500
400
300
HL 87
HL 80
HL 81
QUE RIVER SHALE
UPPER EPICLASTIC SEQUENCE
PILLOW LAVA SEQUENCE
HANGINGWALL VOLCANICLASTICS
FOOTWALL VOLCANICLASTICS
FELSPAR PHYRIC SEQUENCE
BASE METAL SULPHIDES
STRINGER ZONE
DACITE VENT UNIT
FELDSPAR PHYRIC SEQUENCE
HL 17
SCALE 1:2500
0 30 100 metres
5 cm
LEGEND
LITHOLOGY
ALTERATION
Aberfoyle Exploration Pty Ltd
NORTH WEST TASMANIA
MACKINTOSH E L 2/70
HELLYER PROSPECT
CROSS SECTION 10750 N
Scale 1:2500
Date 14 September 1984
Compiled G McA
Drawn BSTEC
Issued D L C
Checked
Plan No
HEL 22/10750 N


5500E
5600E
5700E
5800E
5900E
6000E
700 RL
600
500
400
300
21,33,13
37
39,41
QRS
AS
Ba
BMS
VS
DVU
HELLYER
Section 10800 N
Barite Lens
Base Metal sulphides
Stringer zone
Que River Shale
Andesites
Volcaniclastics
Dacite
0
100
metres
5 cm
G.McA/rje Oct.'84

062

2560647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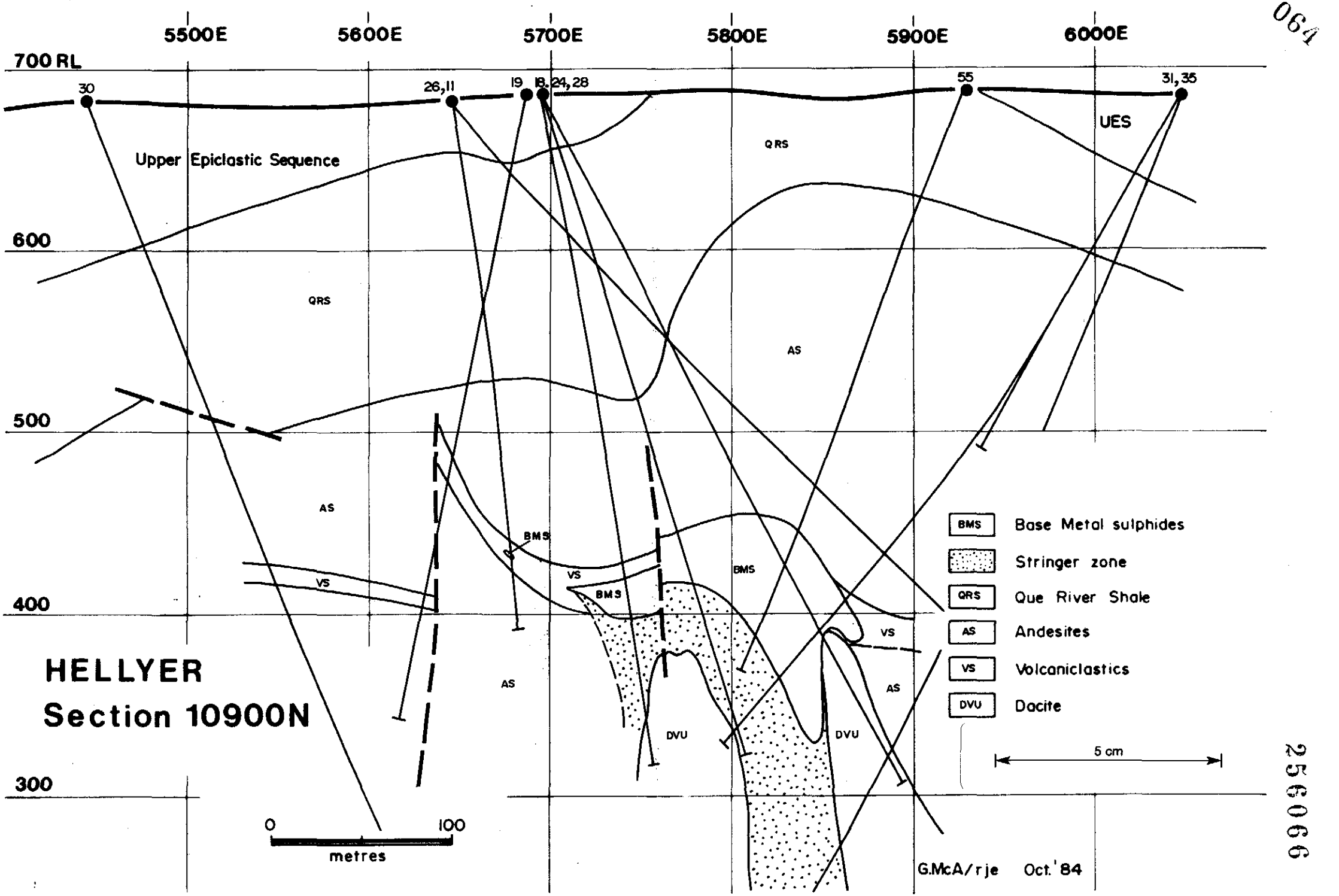
5700E
5800E
5900E
6000E
700 RL
600
500
400
300
52
46, 47, 49
UES
Upper Epiclastic Sequence
QRS
AS
VS
BMS
Ba
DVU
Barite Lens
Base Metal sulphides
Stringer zone
Que River Shale
Andesites
Volcaniclastics
Dacite
HELLYER
Section 10850N
0
100
metres
5 cm
G.McA/rje Sept. '84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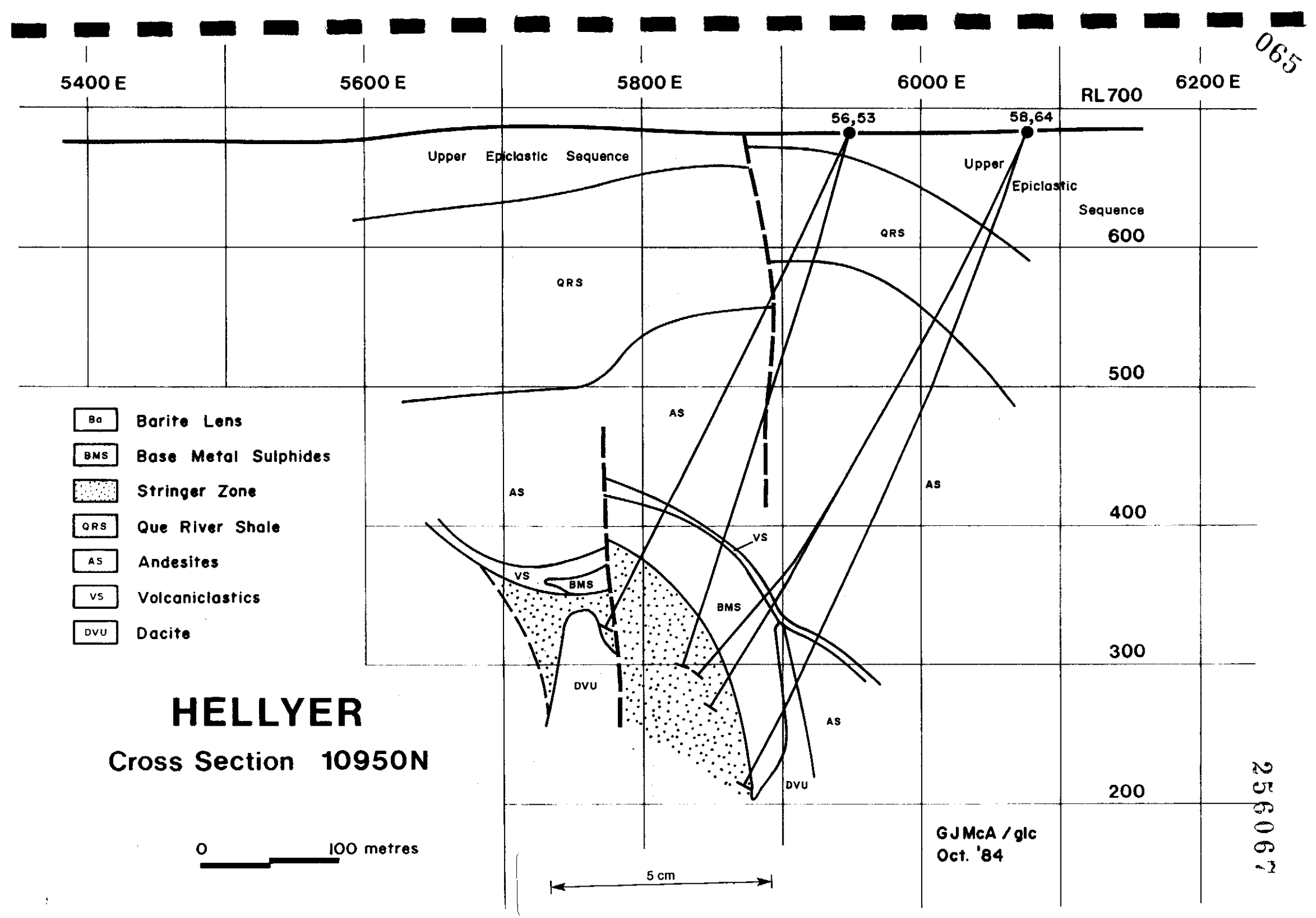
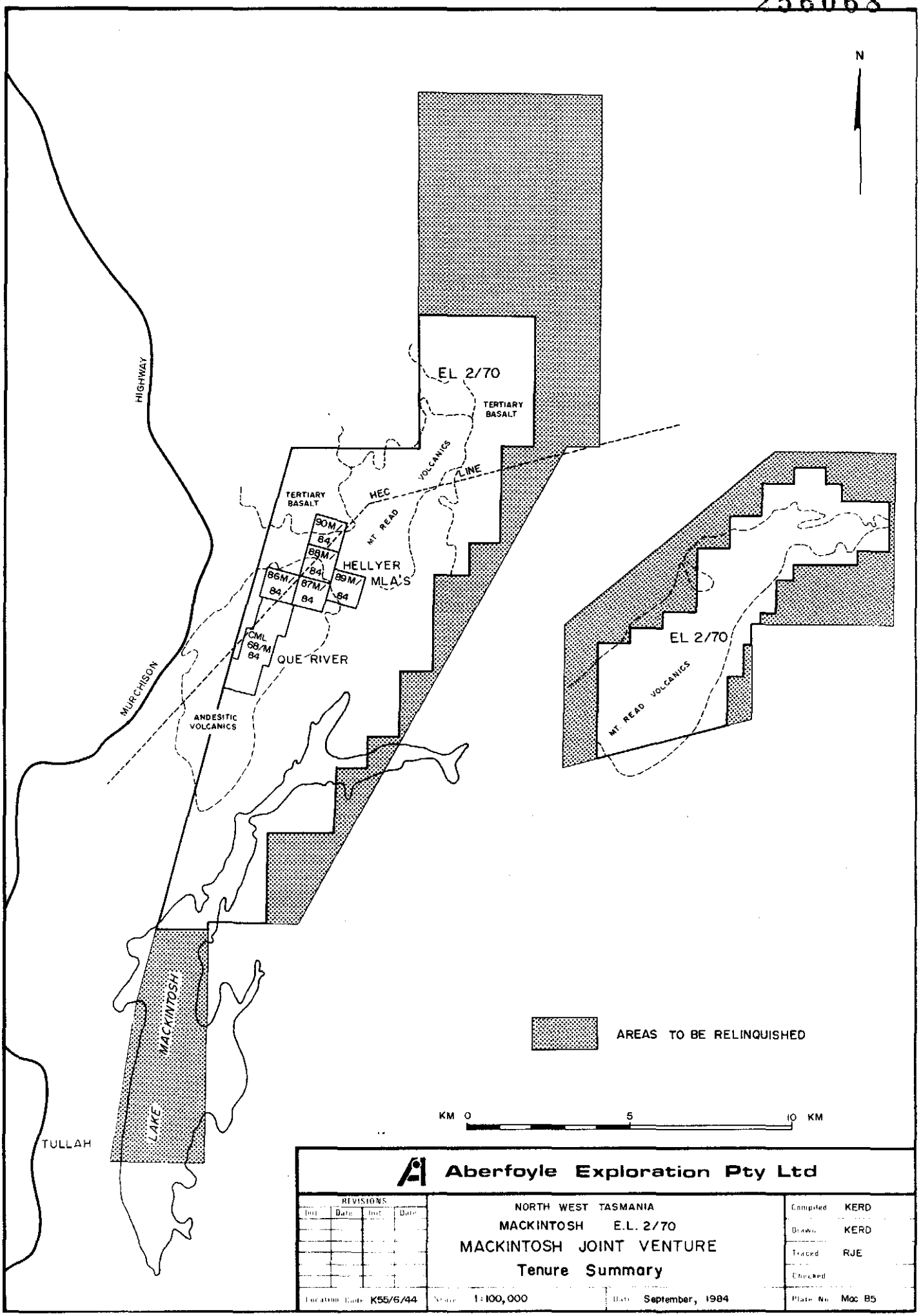
5600E
5700E
5800E
5900E
6000E
700 RL
600
500
400
300
30
26,11
19
18,24,28
55
31,35
UES
Upper Epiclastic Sequence
QRS
AS
VS
BMS
DVU
HELLYER
Section 10900N
0
100
metres
Base Metal sulphides
Stringer zone
Que River Shale
Andesites
Volcaniclastics
Dacite
5 cm
G.McA/rje Oct.'84


5400 E
5600 E
5800 E
6000 E
6200 E
RL 700
600
500
400
300
200
56,53
58,64
Upper Epiclastic Sequence
Upper Epiclastic Sequence
QRS
QRS
AS
AS
AS
VS
VS
BMS
BMS
DVU
DVU
AS
Ba Barite Lens
BMS Base Metal Sulphides
Stringer Zone
QRS Que River Shale
AS Andesites
VS Volcaniclastics
DVU Dacite
HELLYER
Cross Section 10950N
0 100 metres
5 cm
GJMcA / glc
Oct. '84



Aberfoyle Exploration Pty Ltd

REVISIONS			
Ind.	Date	Ind.	Date

NORTH WEST TASMANIA
MACKINTOSH E.L. 2/70
MACKINTOSH JOINT VENTURE
Tenure Summary

Compiled	KERD
Drawn	KERD
Traced	RJE
Checked	
Location Code	K55/6/44
Scale	1:100,000
Date	September, 1984
Plate No.	Mac B5

5 cm

ACCOUNT	PAYMENTS YTD	
HELLYER		
GEOLOGY		
SALARIES	26742.00	102690.27
WAGES	0.00	819.00
CONTRACTORS	8086.63	24814.74
MATERIALS	4598.40	14441.21
TRAVELLING	1495.32	4438.73
FUEL	6897.18	21877.71
COMMUNICATIONS	2157.54	4317.20
HIRING COSTS	5741.45	11562.55
DISTRICT ACCOMMODATION	12097.43	30324.63
FREIGHT	1106.57	2267.81
VEHICLE COSTS	3481.50	16202.70
EQUIPMENT COSTS	208.05	1281.96
GEOLOGY	72612.07	235038.51
SURVEY		
SALARIES	294.00	294.00
CONTRACTORS	11530.00	11530.00
MATERIALS	2047.90	2392.38
FREIGHT	0.00	33.10
EQUIPMENT COSTS	176.50	923.06
SURVEY	14048.40	15172.54
GEOPHYSICS		
SALARIES	384.00	4713.00
WAGES	0.00	1689.00
CONTRACTORS	2329.00	14234.11
MATERIALS	20.40	20.40
TRAVELLING	59.31	682.18
FUEL	0.00	21.17
HIRING COSTS	46.48	339.94
DISTRICT ACCOMMODATION	7.43	232.17
FREIGHT	0.00	72.30
VEHICLE COSTS	0.00	70.00
GEOPHYSICS	2846.62	22074.27

068

ACCOUNT		PAYMENTS YTD
GEOCHEMISTRY		
WAGES	0.00	296.00
FREIGHT	41.81	41.81
GEOCHEMISTRY	41.81	337.81
TRENCHING		
WAGES	0.00	142.00
CONTRACTORS	0.00	7360.00
TRENCHING	0.00	7502.00
DIAMOND DRILLING		
SALARIES	7104.00	15554.00
WAGES	27163.00	74704.00
CONTRACTORS	522421.16	1139645.78
MATERIALS	53172.78	134766.86
TRAVELLING	103.82	103.82
FUEL	(150.00)	338.31
COMMUNICATIONS	102.55	1292.88
HIRING COSTS	52.31	576.70
DISTRICT ACCOMMODATION	112.50	617.31
FREIGHT	316.31	1378.17
VEHICLE COSTS	560.26	1400.26
EQUIPMENT COSTS	982.00	1772.58
DIAMOND DRILLING	611940.69	1372150.67
ASSAYS		
SALARIES	0.00	25.00
CONTRACTORS	65689.11	83659.39
MATERIALS	250.00	250.00
ASSAYS	65939.11	83934.39
ACCESS		
CONTRACTORS	8409.00	33300.15
FUEL	3075.39	5912.60
ACCESS	11484.39	39212.75

2560070

069

ACCOUNT		PAYMENTS YTD
TENURE		
SALARIES	121.00	485.00
TENEMENT COSTS	0.00	1425.00
TENURE	121.00	1910.00
LEGAL/JV COSTS		
SALARIES	0.00	417.00
LEGAL/JV COSTS	0.00	417.00
OTHER SERVICES		
SALARIES	7700.00	18498.00
CONTRACTORS	0.00	512.40
MATERIALS	1493.60	3685.24
TRAVELLING	184.20	432.30
COMMUNICATIONS	0.00	3465.07
HIRING COSTS	230.44	355.23
EQUIPMENT COSTS	588.00	588.00
OTHER SERVICES	10196.24	27536.24
IRECT COSTS	789230.33	1805286.18
INDIRECT COSTS		
ADMINISTRATION	45721.78	198130.16
INDIRECT COSTS	45721.78	198130.16
HELLYER	834952.11	2003416.34

2560071

ACCOUNT		PAYMENTS YTD
MACKINTOSH WEST EL 2/70 JV		
GEOLOGY		
SALARIES	7604.00	20548.49
CONTRACTORS	0.00	300.00
MATERIALS	20.00	876.61
TRAVELLING	100.00	1337.95
FUEL	291.11	2230.71
COMMUNICATIONS	40.00	2375.61
HIRING COSTS	0.00	3835.26
DISTRICT ACCOMMODATION	71.35	933.44
FREIGHT	10.91	227.27
VEHICLE COSTS	1070.00	2668.50
EQUIPMENT COSTS	0.00	151.25
GEOLOGY	9207.37	35485.09
SURVEY		
SALARIES	0.00	107.00
CONTRACTORS	0.00	9024.50
MATERIALS	175.00	459.00
FREIGHT	0.00	14.34
SURVEY	175.00	9604.84
GEOPHYSICS		
SALARIES	663.00	5022.00
WAGES	0.00	201.00
CONTRACTORS	0.00	13691.07
MATERIALS	0.00	12.00
TRAVELLING	59.33	369.01
FUEL	0.00	21.16
HIRING COSTS	46.48	239.93
DISTRICT ACCOMMODATION	7.43	199.63
FREIGHT	0.00	113.10
VEHICLE COSTS	0.00	196.00
GEOPHYSICS	776.24	20064.90
GEOCHEMISTRY		
SALARIES	0.00	1226.00

071

ACCOUNT		PAYMENTS YTD
WAGES	0.00	569.00
CONTRACTORS	0.00	4211.43
MATERIALS	0.00	241.00
FREIGHT	38.35	38.35
VEHICLE COSTS	0.00	196.00
GEOCHEMISTRY	38.35	6481.78
TRENCHING		
CONTRACTORS	1962.00	3592.00
TRENCHING	1962.00	3592.00
DIAMOND DRILLING		
SALARIES	0.00	3067.00
CONTRACTORS	0.00	59567.49
MATERIALS	850.00	4822.11
TRAVELLING	0.00	62.50
FREIGHT	0.00	19.03
VEHICLE COSTS	0.00	280.00
DIAMOND DRILLING	850.00	67818.13
ASSAYS		
CONTRACTORS	0.00	3352.12
ASSAYS	0.00	3352.12
ACCESS		
MATERIALS	249.00	249.00
ACCESS	249.00	249.00
TENURE		
SALARIES	743.00	1793.00
TENEMENT COSTS	0.00	4350.00
DISTRICT ACCOMMODATION	12.50	12.50

2560743

070

ACCOUNT		PAYMENTS YTD
TENURE	755.50	6155.50
LEGAL/JV COSTS		
SALARIES	1336.00	3197.00
TRAVELLING	0.00	228.20
TENEMENT COSTS	803.25	843.86
DISTRICT ACCOMMODATION	12.50	19.50
LEGAL/JV COSTS	2151.75	4288.56
OTHER SERVICES		
SALARIES	857.00	2242.00
MATERIALS	160.00	390.00
COMMUNICATIONS	343.65	3194.49
OTHER SERVICES	1360.65	5826.49
IRECT COSTS	17525.86	162918.41
INDIRECT COSTS		
ADMINISTRATION	(3928.58)	17880.30
INDIRECT COSTS	(3928.58)	17880.30
MACKINTOSH WEST EL 2/70 JV	13597.28	180798.71

256074