

Date	25th June, 1982	Ref	
To	E. H. Skey,	From	J. R. Sise,
At	Hawthorn East.	At	Burnie.
Copies to	K.G.P., C.H.Y., R.A.O., S.R.	Keep	<i>File</i>

Subject

GOLF COURSE-SEVERN-MONTANA DRILLING REPORT
FOR PERIOD 7, ENDING 28TH JUNE, 1982

The exploration drilling programme for the first half of 1982 at the Zeehan Project was concluded on 18th June with the completion of ZG 89. (Note: to conform with the data base mnemonics drill holes will now be prefixed as follows: all holes by Z = Zeehan Project, then by either S = Severn, M = Montana, G = Golf Course, Q = Queen Hill).

No further drilling is planned at Zeehan in the near future; instead a period of comprehensive data compilation and geological assessment will take place with a view to more confidently determining the next stages of resource development. During this period ore characterisation will continue and a down hole E.M. survey is planned on key holes as yet unsurveyed. The on-going check assay programme will continue.

DDH ZS 87

Complete assay results for the interval 316.0-356.0m are to hand. A zone of mineralisation including both Crimson Creek vein-style and Montana carbonate replacement-style mineralisation from 326.0-354.0m returned 0.53% Sn over the 28.0m interval. It should be stressed that two high grade intervals, namely 334.0-336.0m of 1.67% Sn and 347.20-348.15m of 3.67% Sn considerably boosted the overall tenure of the interval.

DDH ZM 88

This exploration drill hole, designed to test for possible 'faulting-out' of the Montana Beds on section 3640M at R.L. 1050 was completed on 3rd June at 274.3m having achieved its purpose of defining limits on the Montana horizon to assist geological interpretation.

- 0 - 218.9 m : Crimson Creek Formation.
- 218.9 - 253.4 m : Montana Beds including 249.3-253.4: siderite-pyrite lode with trace Sph and Gn.
- 253.4 - 274.3 m : Grey Laminated shales - top of Onah Formation.

The interval 248.3-254.3m was submitted for assay with less than 100ppm Sn being reported.

DDH ZG 89

This exploration drill hole, designed to test a down-hole E.M. target thought to represent the continuation of mineralisation intersected in ZG 82, was completed on 18th June at 220.0m. Lithologies:

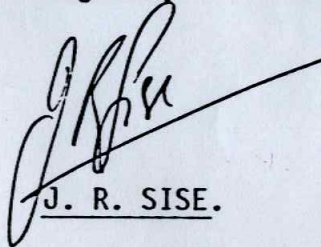
- 0 - 153.9 m : Crimson Creek Formation
- 153.9 - 202.05m : Montana Beds including the host carbonate horizon from 183.3 - 202.05m.
- 202.05 - 220.0 m : Grey Laminated shales - Oonah Formation
- Mineralisation : 201.85-202.05 (20cm) py 2-3% as veins.

Assay results are not yet available.

DRILLING SUMMARY FOR PERIOD 7

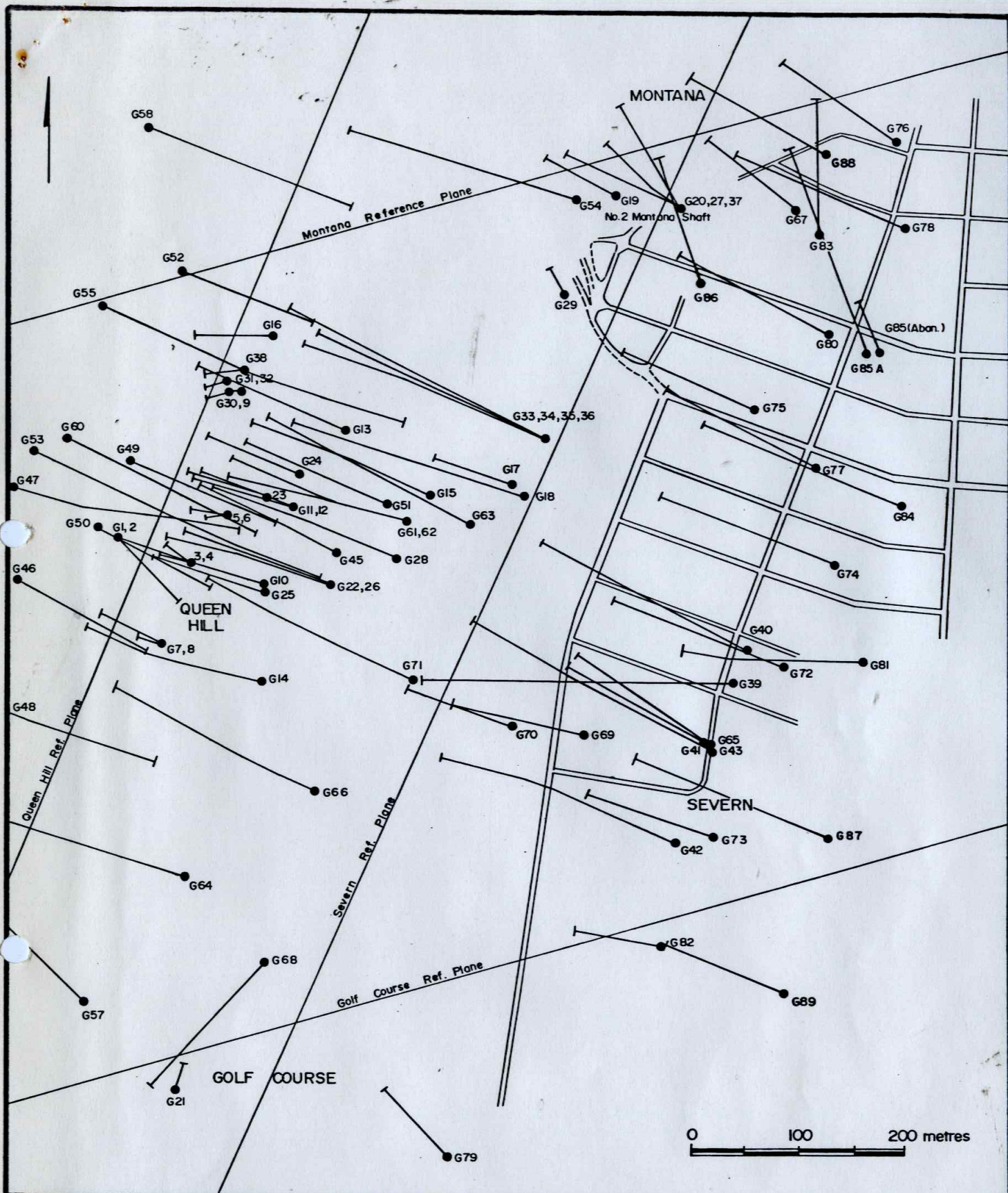
No drill holes collared. Metres drilled 135.3m.

Regards,



J. R. SISE.

P.S. Full set of Diamond Drilling Summary Sheets attached. These have now been amended to take account of the revision of quoted intersections performed by KSP/CHY on 18.12.81. Also R.L's adjusted to 1000's series

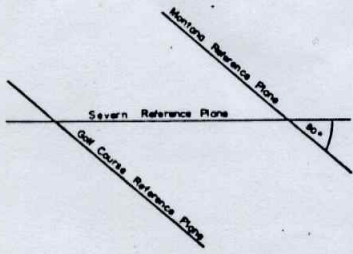
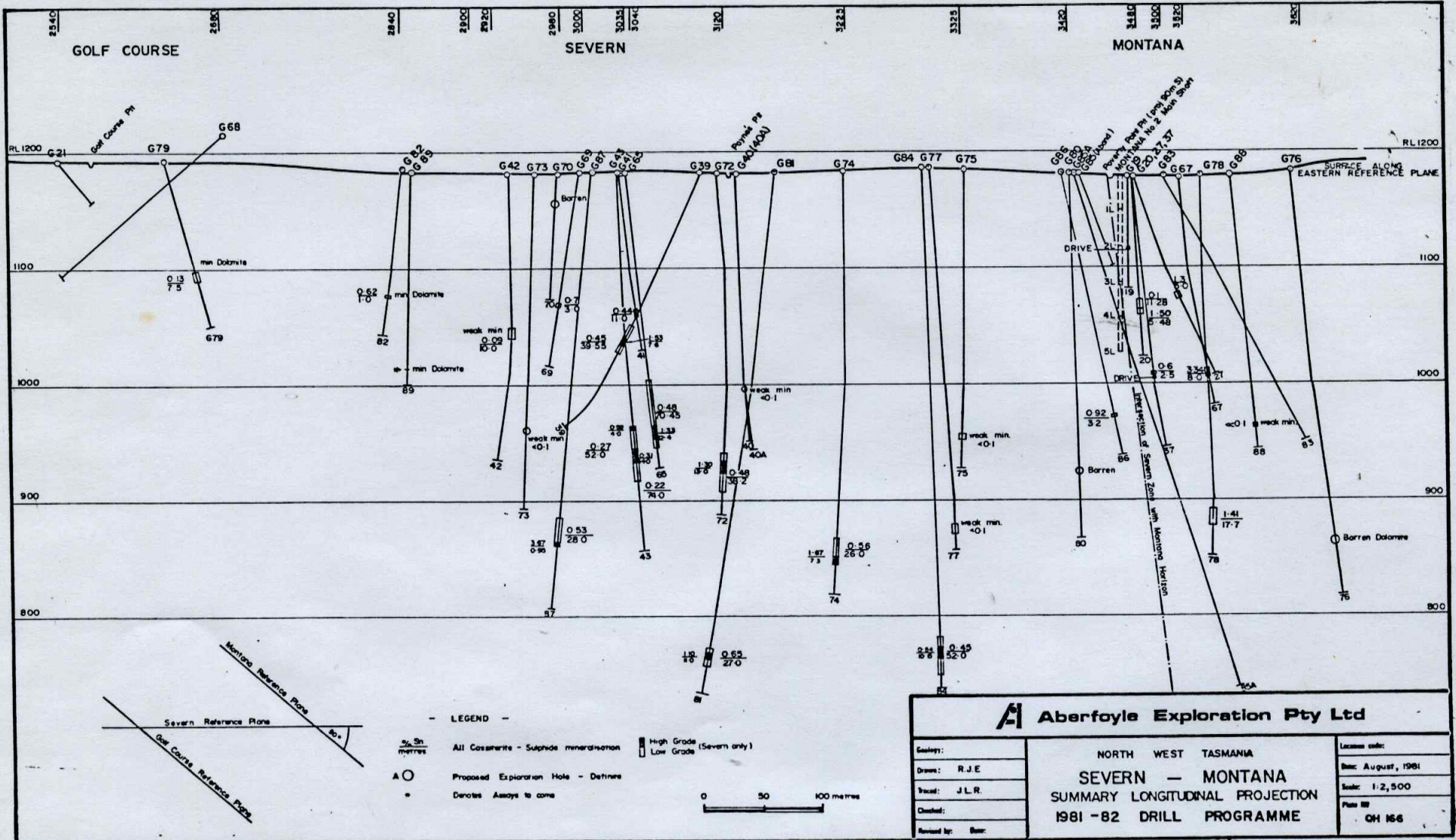


Aberfoyle Exploration Pty Ltd

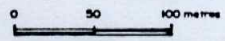
Geology:	
Drawn:	R J. E.
Traced:	
Checked:	
Revised by:	Date:

NORTH WEST TASMANIA
ZEEHAN DEPOSITS
DRILLING SUMMARY PLAN

Location code:	
Date:	April, 1982
Scale:	as shown
Plate No	QH 185



- LEGEND**
- $\frac{3}{4} \frac{5}{8}$ metres All Cassiterite - Sulphide mineralisation
 - \square High Grade (Severn only)
 - \square Low Grade
 - \bigcirc Proposed Exploration Hole - Defines
 - \bullet Denotes Assays to come



Aberfoyle Exploration Pty Ltd	
Geology:	NORTH WEST TASMANIA
Drawn: R.J.E.	SEVERN - MONTANA
Traced: J.L.R.	SUMMARY LONGITUDINAL PROJECTION
Checked:	1981 - 82 DRILL PROGRAMME
Revised by: Bar:	Location code:
	Date: August, 1981
	Scale: 1:2,500
	Plan No: QH 166

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elev-ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
80 SEVERN	1960.5	1247.9	1182.2	284.1	-60.6	21.10.81	13.11.81	355.0	7072.71	3420	No significant sulphide mineralisation noted		
81 SEVERN	1657.9	1291.0	1179.8	267.9	-67.1	4.11.81	4.12.81	482.0	7554.71	3140	441.9-448.0m: po(5-20),py(1-2) 448.0-450.9m: po(50-60),py(3-5),Cassiterite(0-5); 450.9-452.6m: po(10-15),py(2-3); 452.6-463.7m: po(5-15),py(1-2), tr. Cassiterite.	772 768 758 748	437.0 - 464.0m (27m) of 0.65% Sn, incl. 442.0 - 453.0m (11m) of 1.1% Sn. Assays Checked
82 GOLF COURSE	1392.2	1095.5	1183.6	269.2	-60.0	4.01.82	15.01.82	157.0	7711.71	2820	117.0-120.0: siderite lode, up to 40-50 py. 120.0-134.3: grey cavernous dolomite.	1071	127.0 - 128.0m 1.0m of 0.62% Sn.
83 MONTANA	2051.5	1239.4	1180.8	351.0	-58.0	5.01.82	20.01.82	263.1	7974.81	3640M	No significant sulphide mineralisation noted.		
84 SEVERN	1799.1	1310.3	1178.8	284.3	-65.0	20.01.82	31.3.82	471.0	8445.81	3310	368-457.3 Py & Po 1-2 (5) veins & dissem. incl. 426.7-428.2 Py 40veins. 432.8-433.75 Py, Po 30 cass. 1-2. 438.4-442 Po, Py 10-20(50) 457.3 - 471 Py Tr.	796 773 764 748	407.0-459.0m (52.0m) of 0.45% Sn, incl. 432.85-443.0m (10.15m) of 0.84% Sn.
85 MONTANA	1944.7	1295.5	1181.0	328.0	-61.7	26.01.82	19.3.82	89.0	8534.81	3640M	Abandoned by A.D.D. due to loss of rod string in drill hole.		
85A MONTANA	1945.41	1281.93	1181.3	328.0	-61.7	23.3.82	5.05.82	487.4	9022.21	3620M	No significant sulphide mineralisation noted.		429.00-433.40(4.4)m of 0.3%Sn as veinlets in Crimson Creek Fm.
86 MONTANA	2000.7	1136.8	1181.5	334.1	-61.5	5.03.82	5.04.82	255.0	9277.21	3520M	Abandoned due to rods failing to re-enter the drill hole after cementing. Wedge 86W commenced.		248.0-253.0 (5m) of 0.48% Sn in pyrite-siderite lode and pyritic mudstone.

SEVERN/MONTANA/GOLF COURSE—Diamond Drilling Summary

D.H. No.	Co-ordinates		Elev-ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	
	North	East										Intersection	Intersection
74 SEVERN	1742.5	1252.1	1179.8	281.0	-62.6	7.4.81	21.7.81	398.0	5136.81	3225	345.3-363.7m: Pyrite and trace pyrrhotite as stringer veins. 363.7-370.8m: Zone of massive pyrite veins with minor cassiterite.	867 850 845	345.0-371.0m(26m) of 0.56%Sn, Inc. 363.7-371.0m (7.3m) of 1.67%Sn Assays checked
75 SEVERN	1889.5	1181.4	1181.2	281.2	-60.5	29.07.81	24.08.81	287.5	5424.31	3330	258.6-258.9m: Py (90) as veins 251.6-258.6m: Py (1-2) diss. & veinlets. 258.9-259.8m: Py (1) as blebs	960 954	Weak min. 0.1%
76 MONTANA	2138.8	1313.9	1178.8	298.0	-68.8	31.07.81	27.08.81	385.5	5809.81	3640	No significant sulphide mineralisation noted. 307.5-371.1: Barren brecciated dolomite.		
77 SEVERN	1831.2	1238.1	1179.7	289.7	-62.8	27.08.81	29.10.81	361.0	6170.81	3300	331.8 - 339.5m : Pyrite 5-10% as disseminations & veinlets.	880 873	Weak min. < 0.1%Sn
78 MONTANA	2050.3	1321.7	1179.3	285.4	-57.4	01.09.81	01.10.81	377.4	6548.21	3540	332.15-349.85m: Zone of massive pyrite-pyrrhotite vein mineralisation in quartz-siderite rock.	892 877	332.15-349.85m: 17.7m of 1.41%Sn Assays Checked
79 GOLF COURSE	1191.5	901.3	1189.3	312.3	-59.8	06.10.81	17.10.81	169.5	6717.71	2580	104.5-111.7m: Sideritic lode with trace py, Gn, Sph.	1098 1091	104.5-112.0 (7.5)m of 0.13%Sn, 0.14% Pb, and 0.13% Zn.

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	
	North	East										Intersection	Intersection
68 GOLF COURSE LODE	1374.2	734.1	1212.6	209.5	-41.0	2.10.80	21.10.80	186.7	3728.11	GCL	No significant sulphide mineralisation noted.		
69 SEVERN	1588.8	1022.7	1183.5	270.9	-53.5	23.10.80	6.11.80	208.5	3936.61	2970	89.5-102.5 Pyrite/pyrrhotite veins, 3-5% with quartz veining. 131.0-141.0: 15% pyrite as stockwork. 164.8-170.8m pyrite 5% locally 70% as veins.	1110 1099 1076 1068 1050 1045	Weak min. <0.1%Sn 138.0-141.0(3.0)m of 0.75%Sn. 131.0-141.0(10.0)m of 0.27%Sn. Inc. 164.8-170.8(6.0)m of 0.3%Sn. Assays Checked
70 SEVERN	1594.6	959.0	1185.6	294.0	-48.0	10.11.80	17.11.80	151.2	4087.81	2970	Barren at Contact. 63.3-83.4: Pyrite (1-2), locally 20-90% as veinlets in QZS.	1155 1138 1128	61.0-87.0m: Weak min. <0.1%Sn.
72 SEVERN	1649.5	1205.1	1180.6	284.3	-63.1	16.1.81	9.3.81	340.5	4428.31	3125	275.3-282.5m: 1-3% pyrite veins. 282.5-300.3m: zone of pyrrhotite 10-15%, pyrite 1-5% veining. 300.3-313.5m: pyrrhotite/pyrite stringer veins, 1-5% Fault at 310.5m.	940 934 922 906	275.3-313.5(38.2)m of 0.48%Sn Inc. 282.5-295.5(13.0)m of 1.30%Sn. Assays Checked
73 SEVERN	1492.3	1139.6	1180.4	281.4	-64.5	12.3.81	4.4.81	310.5	4738.81	2940	170.0-198.0m: Pyrite 1-2% locally 85% as veins 223.0-227.8m: Pyrite 2-3% locally 35% as fine diss. & veinlets.	1023 998 973	170.0-198.0m(28)m 0.15%Sn, Inc. 171-173m(2m) of 1.29% Sn. 223.0-227.8m: Weak min. <0.1%Sn.

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	
	North	East										Intersection	Intersection
41 SEVERN	1575	1145.5	1181	282°	-30°	7.2.77	22.3.77	292.5	2331.61	3040	230.0-241.0m: zone of Py veinlets, locally to 60%	1059 1054	230.0-241.0(11.0)m of 0.44%Sn, Inc. 230.0-236.0m(6.0m) of 0.69%Sn.
42 SEVERN	1486.5	1100	1181	282°	-45°	23.3.77	23.5.77	335.3	2666.91	2920	184.0-194.0m: Minor Py as disseminations & veinlets.	1048 1040	184.0-194.0(10.0m) of 0.09%Sn.
43 SEVERN	1581	1133	1181.5	282°	-64°	28.3.77	29.4.77	358.5	3025.41	3040	155.1-159.3m: Py veinlets to 20%. -315.0m: zone of Py/Po stringer veins.	1040 964 946 934 918	155.1-159.3(4.2m) of 0.36%Sn. 240.0-292.0(52.0)m of 0.27%Sn. Inc. 260.0-274.0(14.0)m of 0.31%Sn. 150.0-178.5(28.0)m of 0.27%Sn.
65 SEVERN	1581.5	1138	1182	239.1	-60.1	5.8.80	3.9.80	292.5	3317.91	3035	150.5-178.5m: zone of pyrite/pyrrhotite stringer veins. 202.05-272.5m: zone of pyrite/pyrrhotite stringer veins include 222.5-222.8m quartz-cassiterite vein and 257.5-262.1m, 40-70% pyrrhotite/pyrite vein.	1050 1025 1005	202.05-272.5(70.45)m 0.48%Sn Inc. 222.5-222.8(0.3)m at 20.3%Sn, and 217.8-267.8(50.0)m of 0.7%Sn. 251.1-263.5(12.4)m of 1.33%Sn. Assays Checked. NB: the 0.3m of 20.3%Sn was cut to 5%Sn for the overall grade estimation.
67 MONTANA	2073.7	1219.4	181.2	289.3	-64.3	8.9.80	30.9.80	223.5	3541.41	3520	192.3-200.3m vein pyrite 60-80%. siderite, quartz gangue.	1012 1005	192.3-200.3m (8.0m) 3.34%Sn. Assays Checked

SEVERN / MONTANA / GOLF COURSE — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	
	North	East										Intersection	Intersection
19 MONTANA	2089	1073	1177	282°	-50°	8.4.72	28.4.72	131.06	131.06	3480	105.46-109.73: Py(10-15), Gn(1-2), tr Stn as veins. 115.82-121.01: Py,Gn,Sid, q as veins. 118.0-119.5: fault zone or stope.	1098	105.46-109.73(4.27) m of 0.37% Sn.
												1090	115.82-121.01(5.19) m of 0.2% Sn.
20 MONTANA	2073.5	1116	1176	282°	-52°	29.4.72	13.5.72	189.59	320.65	3480	131.37-142.65: Weak Py as disseminations & veinlets. 142.65-148.13: Py, Sid, q vein lode.	1072	131.37-142.65(11.28) m of 0.1% Sn.
												1063	142.65-148.13(5.48) m of 1.5%Sn.
21 GOLF COURSE LODE	1253	641	1190	4°	-50°	15.5.72	22.5.72	48.16	368.81	GCL	No significant sulphide mineralisation noted.		
27 MONTANA	2075	1116	1175.6	313°	-60°	20.11.72	26.11.72	199.9	568.71	3500	114.6-119.6m: Py(20-30), Gn(15-20), Sph(10) vein lode	1077 1073	114.6-119.6(5.0)m of 1.31% Sn.
37 37 W MONTANA	2075	1115	1176	291°	-68°	17.9.75	2.10.75	243.9	812.61	3480	176.10-178.60m: Py(30), Sph(10), Sid(40), q(20) as vein lode	1010	176.10-178.60(2.5) m of 0.6% Sn.
						Wedge from 215.4		227.1	1039.71				
39 SEVERN	1640	1173	1181	258°	-41°	11.2.76	15.3.76	364.2	1403.91	3040	136.90-144.60m: Py (10-60) as veins 170.0-263.6m: Py/Po stringer veins, locally to 60% in vein lode	1050	136.90-144.60(7.7) m of 0.28% Sn.
												1040	170.0-263.6(93.6m) of 0.31%Sn. Inc.
												1035	204.2-243.75(39.55) m of 0.45%Sn.
												1025	221.6-229.2(7.6)m of 1.53%Sn.
40 40 A SEVERN	1670	1177	1180		-43°	26.1.77	18.3.77	310.5	1714.41	3120	No significant sulphide mineralisation noted.		
						Wedge from 238.0		324.7	2039.11				

Date	31st May, 1982	Ref	
To	E. H. Skey,	From	J. R. Sise,
At	Hawthorn East.	At	Burnie.
Copies to	C.H.Y., R.A.O., S.R.	Keep	

Subject GOLF COURSE - SEVERN - MONTANA DRILLING REPORT
FOR PERIOD 6 ENDING MAY 31, 1982

DDH G84 SEVERN

Assay results for the full interval 365.0 to 459.0 metres are now to hand. The previously reported high grade zone from 432.85 to 443.0m (10.15m) assaying 0.84% Sn has not been amended by the recent assay information; however the low grade envelope is now defined by the interval 407.0m to 459.0m being 52.0 metres of 0.45% Sn.

DDH G85 A MONTANA

This exploration drill hole designed to test the Montana horizon at RL 790 on section 3630M was terminated on 5th May at a depth of 487.4 metres after failing to intersect Montana stratigraphy. The fact that the drill hole remained in Crimson Creek Formation for its entire length suggests a major dislocation of the Montana Beds. A future drill hole will explore this situation.

DDH G86 AND G86 W MONTANA

Formal logging of this wedged drill hole is almost complete. It is clear that 86 and 86W intersected the pyrite-siderite lode. In G86 some core loss was experienced making precise definition of boundaries difficult:- Summary:

239.0	- 244.0m	: Cavernous dolomite
244.0	- 249.0m	: Siderite-quartz rock with tr. Sph & Gn
249.0	- 250.5 (?)m:	Pyrite (50) -siderite lode
250.5 (?)	- 255.0 (?)m:	Pyritic mudstone

The interval 243.0 - 255.0m has been assayed with 0.48% Sn being reported for the 5.0 metres from 248.0 - 253.0m. In G86 W, the Pyrite-siderite lode previously recorded between 248.8 and 252.0m returned 0.92% Sn over the 3.2 metre interval. Assays up to 12.3% Zn have been reported from the lode material.

DDH G87 SEVERN

Exploration drill hole G87, designed to test the Severn zone at RL 790 on section 2990 was completed on 17th May at 420.0m. This hole passed from Crimson Creek Formation into a sequence typical of Montana Beds then into the Oonah Quartzite and Slate Formation at intervals yet to be formally logged. Mineralisation was noted as follows:

- 319.85 - 336.5m : Py (3-5) veins
- 339.00 - 344.5m : Py (2-3) veins
- 347.20 - 348.15m: Pyrite-siderite lode
- 348.15 - 354.0m : Py (25) as veins in silicified shale

The interval 316.0 to 356.0 has been split and submitted for assay.

DDH G88 MONTANA

This exploration drill hole, designed to test for possible 'faulting-out' of the Montana Beds on section 3640M at RL 1050, was commenced on 12th May and is currently in progress at 239.0m. At the time of writing the drill hole is believed to have just passed out of typical Crimson Creek Formation into an as yet undefined unit.

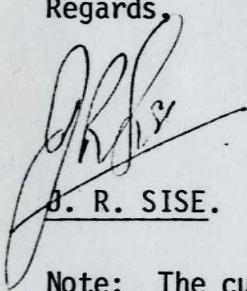
DDH G89 GOLF COURSE

Exploration drill hole G89 is currently in progress at 120.0 metres in Crimson Creek Formation. This hole was commenced on 25th May to test a down-hole E.M. target thought to represent the continuation of mineralisation intersected in G82. The target is at RL 990 on the same section as G82.

DRILLING SUMMARY FOR PERIOD 6

Two drill holes collared. Metres drilled 483.4

Regards,



J. R. SISE.

Note: The current drilling programme at Zeehan should be completed during the first half of period 7. With the extra help from M.J.R. the back-log of core logging should quickly be made up. Further data for the H.P. 1000 will be entered by J.R.S. and S.R. in mid-June.

js:nb

SEVERN/MONTANA/GOLF COURSE—Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of	Intersection
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SEVERN/MONTANA/GOLF COURSE—Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
86 W MONTANA					Wedge from	206.0m	20.04.82	277.3	9348.51	3520M	243.2-248.8: Siderite-qtz rock + tr. Sph & Gn. 248.8-252.0: Py(50)-siderite lode. 252.0-258.2: Siderite-qtz rock + tr. Sph & Gn.		248.8-252.0m (3.2m) of 0.92% Sn.
87 SEVERN	1491.6	1254.9	179.2	280.3	-63.5	14.04.82	17.05.82	420.0	9768.51	2990	319.85-336.5: Py(3-5) as veins 339.0-344.5: Py(2-3) as veins 347.2-348.15: Qtz-siderite-py lode. 348.15-354.0 Py(25) as veins.		
88 MONTANA	2119.3	1247.2	179.9	291.3	-58.7	12.05.82	In progress	239		3640M			
89 SEVERN						25.05.82	In progress	120		2840			

Date	3rd May, 1982	Ref	
To	E. H. Skey,	From	J. R. Sise,
At	Hawthorn East.	At	Burnie.
Copies to	C.H.Y.,R.A.O.,S.R.	Keep	

Subject GOLF COURSE - SEVERN - MONTANA DRILLING REPORT
FOR PERIOD 5 ENDING MAY 3, 1982

DDH G84 Severn

Additional intervals of weak sulphide mineralisation will be assayed in this drill hole. Pyrite (1-2%) as veins and disseminations was logged between 368.3 and 423.0 metres. The interval 365-423m is currently being split.

Results from the interval 423.0 to 459.0m are to hand. From 432.85 to 443.0m a 10.15m interval assaying 0.84% Sn was recorded, and the entire 36.0 metres split averaged 0.47% Sn. However it must be stressed that complete assays for the mineralised zone are not yet available and these values are an indication only.

DDH G85 A Montana

This exploration drill hole, which was collared to replace the abandoned drill hole G85, is designed to test the Montana horizon at RL - 210 on section 3630M. The drill hole is currently in progress at 469 metres and still in the Crimson Creek Formation. At this stage it appears that the Montana Beds may not be penetrated due possibly to folding of the sequence, and that the hole may be terminated around 500 metres. In this event casing will be left in the hole to enable re-entering at a later date, should deepening or wedging be warranted.

DDH G86 Montana

Exploration drill hole G86, designed to test the Montana lode of RL - 50 on section 3520M, was abandoned on the 5th April at 255.0 metres after the contractors were unable to re-enter the drill hole following cementing due to poor ground conditions. The rods ran off the cement at 206.0 metres to commence a new wedged hole - G86 W.

DDH G86 W

This wedged hole was commenced on the 6th April at 206.0 metres and completed on 20th April at 277.3 metres. The Montana Carbonate horizon was intersected from 239.3 to 258.2m as follows:-

DDH G86 W (cont.)

239.3 - 243.2	:	Grey dolomite.
243.2 - 248.8	:	Siderite-quartz rock with trace sphalerite and galena.
248.8 - 252.0	:	Pyrite (50) - siderite lode.
252.0 - 258.2	:	Siderite-quartz rock with trace sphalerite and galena.

The interval 242 to 256m has been split and submitted for assay.

DDH G87 Severn

Exploration drill hole G87, designed to test the Severn zone at RL - 210 on section 2990, was commenced on the 14th April and is currently making good progress at 314 metres in Crimson Creek Formation.

Mapping

The up-dating of the 1:500 scale geological plans is almost complete. Structural complexities within the Queen Hill quartzite member are evident in the area south of the Golf Course Pit.

Ground Magnetism

A ground magnetic survey is in progress in the area between Severn and Golf Course and in the region south of Golf Course. This work is designed to detail previous regional magnetism which define a 'ridge' extending towards the Golf Course from the magnetic high over the Severn mineralisation.

Ground Conditions

The initial examination of photographs of all the drill core from Severn taken during the course of the programme indicates that the ground conditions in the mineralisation are good, and that ground conditions overall improve to the south-west.

Down Hole EM

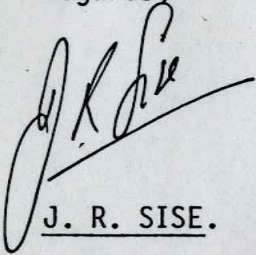
Further down hole EM surveys were carried out in the Golf Course area between 25th and 28th April. This work was designed to clarify in which direction the conductors, previously detected in drill hole G79 and G82, were extending away from the respective holes. Full results are yet to be received from the contractor.

Drilling Summary for Period 5

1 drill hole collared; 657 metres drilled.

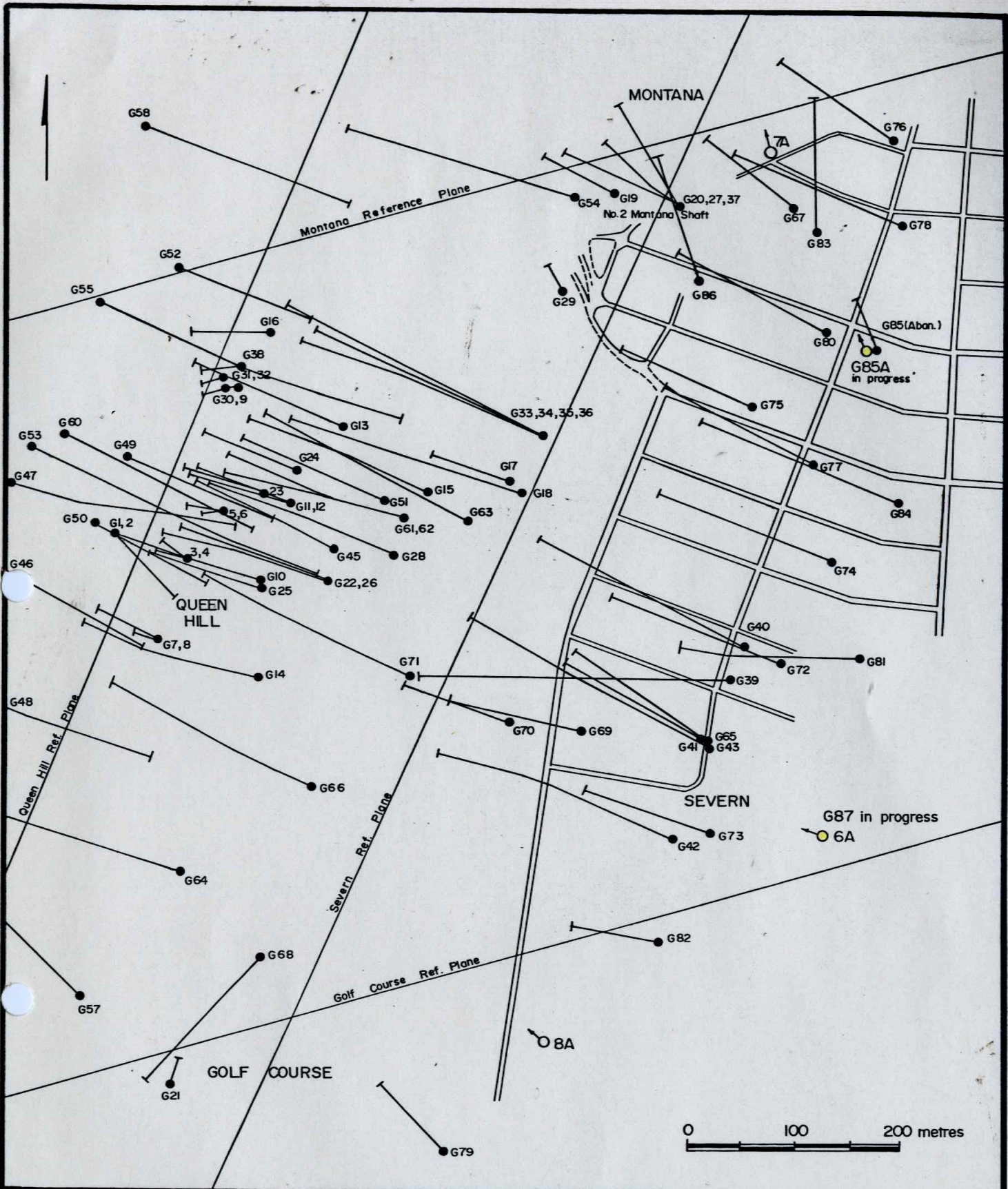
(2 days dozer time; 40m core cut; 1½ days surveyor time).

Regards,

A handwritten signature in black ink, appearing to read 'J. R. Sise', written over a horizontal line.

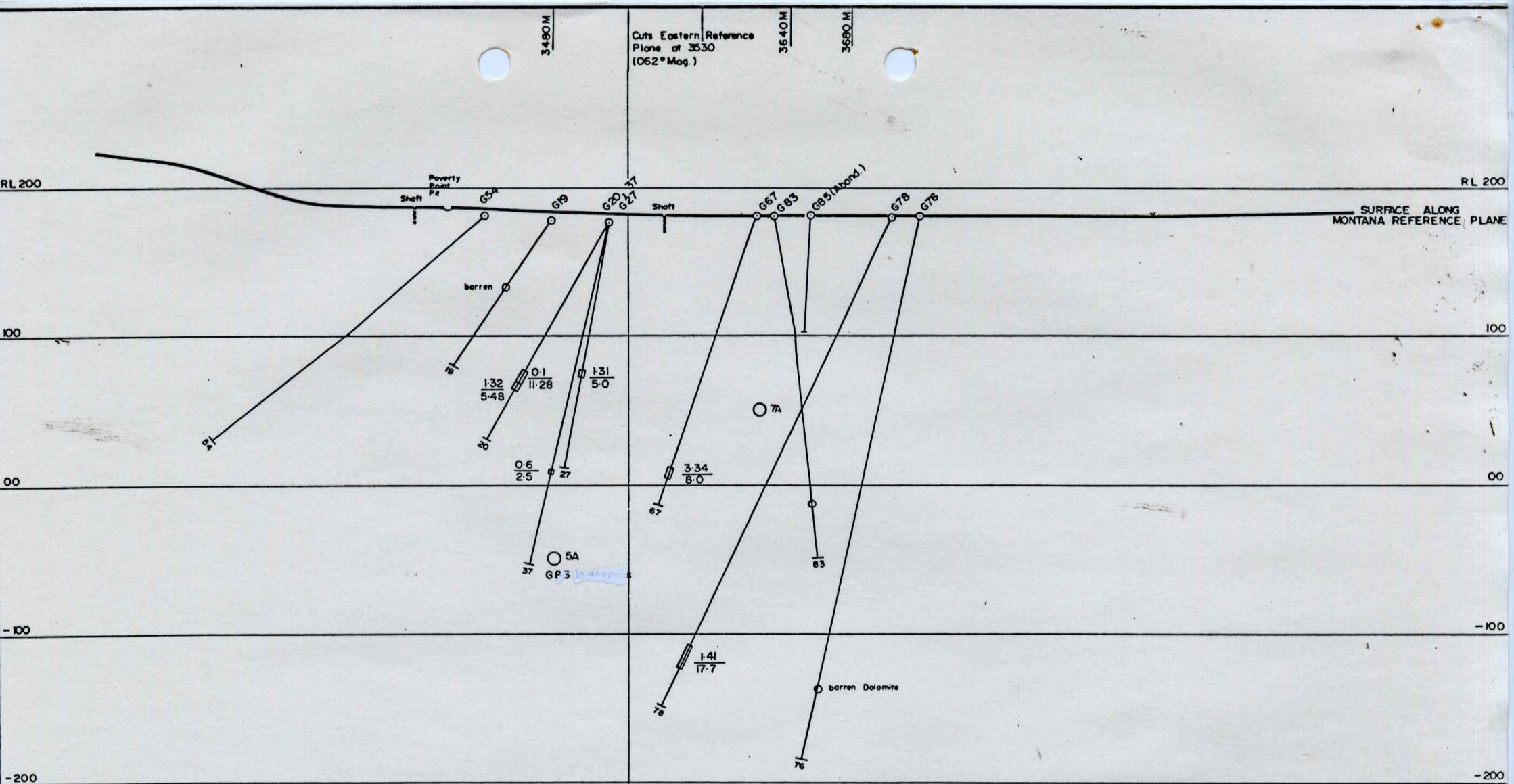
J. R. SISE.

JS:NB



Aberfoyle Exploration Pty Ltd

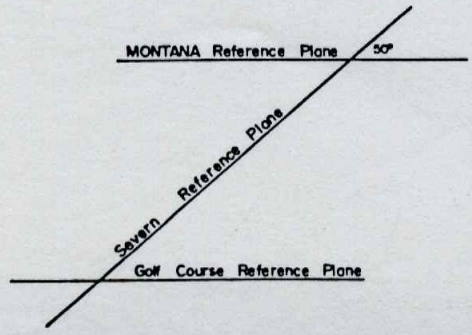
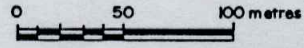
Geology:	NORTH WEST TASMANIA ZEEHAN DEPOSITS DRILLING SUMMARY PLAN	Location code:
Drawn: R J. E.		Date: April, 1982
Traced:		Scale: as shown
Checked:		Plate No
Revised by: Date:		QH 185



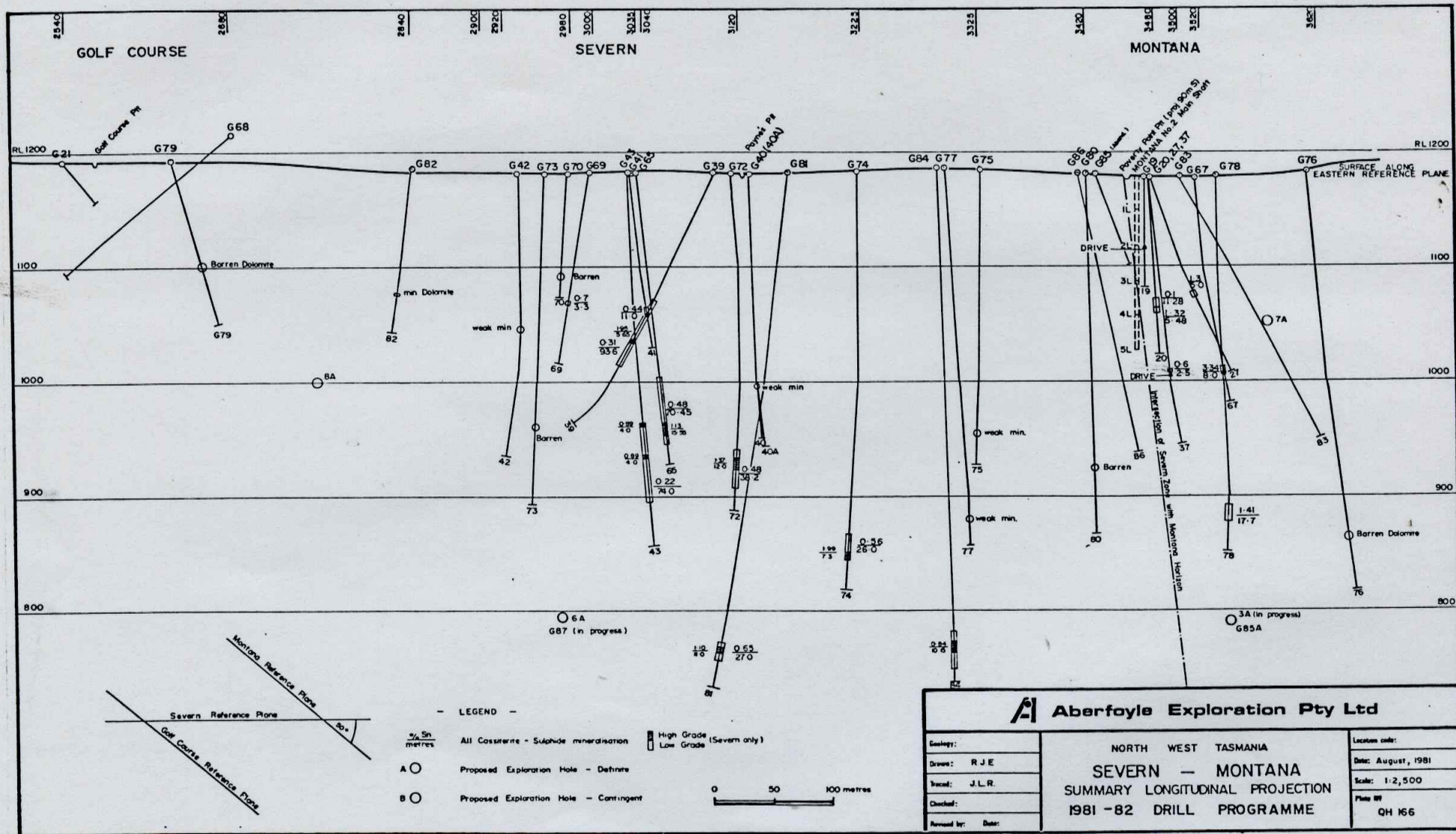
Cuts Eastern Reference Plane of 3530 (062° Mag.)

SURFACE ALONG MONTANA REFERENCE PLANE

○ 3A
G85A in progress



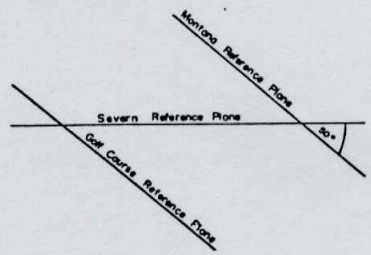
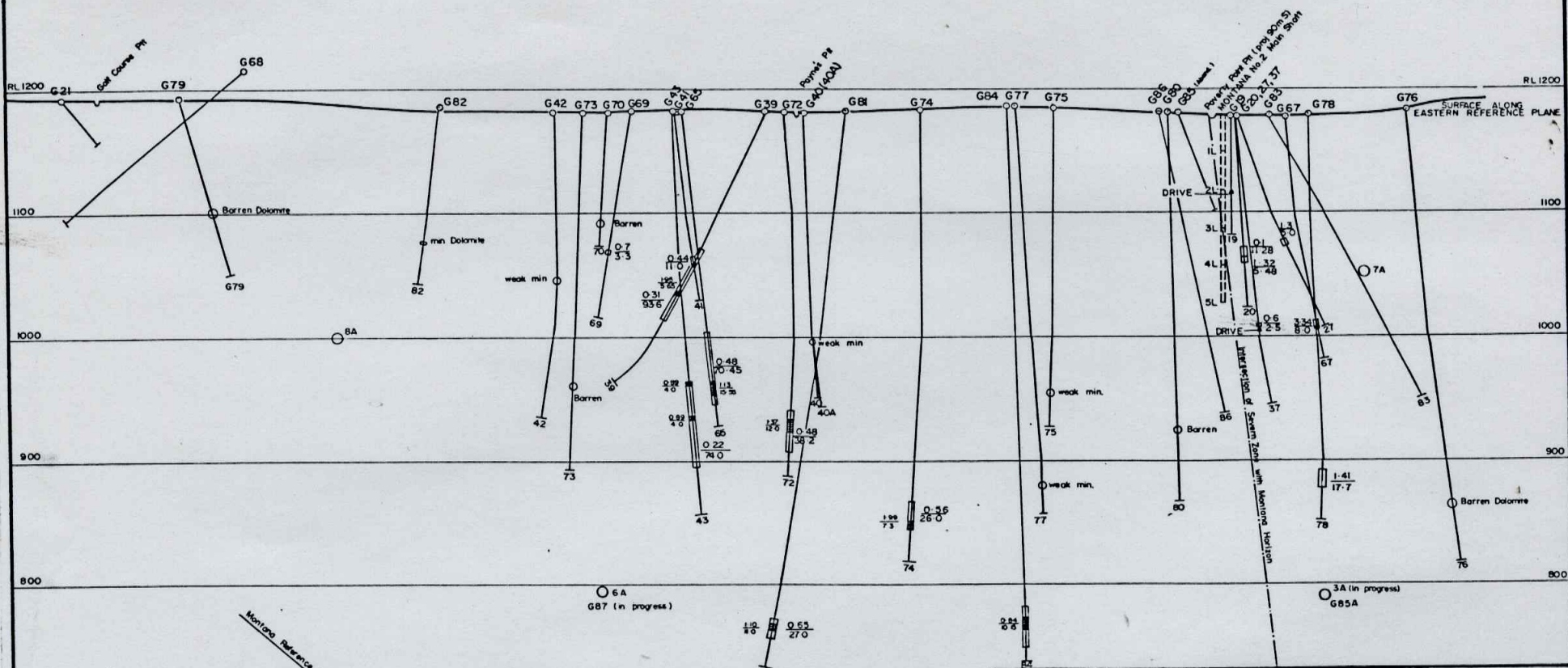
Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA MONTANA SUMMARY LONGITUDINAL PROJECTION 1981-82 DRILL PROGRAMME	Location code:
Drawn: R.J.E.		Date: December, 1981
Traced:		Scale: 1: 2,500
Checked:		Plate No
Revised by: Date:		QH 176



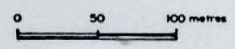
GOLF COURSE

SEVERN

MONTANA



- LEGEND -
- $\frac{3}{4}$ 5m metres
 - A O Proposed Exploration Hole - Definite
 - B O Proposed Exploration Hole - Contingent
 - High Grade (Severn only)
 - Low Grade



Aberfoyle Exploration Pty Ltd	
Geology:	NORTH WEST TASMANIA
Drawn: R J E	SEVERN - MONTANA
Traced: J. L. R.	SUMMARY LONGITUDINAL PROJECTION
Checked:	1981-82 DRILL PROGRAMME
Revised by: Date:	Location code:
	Date: August, 1981
	Scale: 1:2,500
	Plate No: QH 165

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
80 SEVERN	1960.5	1247.9	182.2	284.1	-60.6	21.10.81	13.11.81	355.0	7072.71	3420	No significant sulphide mineralisation noted		
81 SEVERN	1657.9	1291.0	179.8	267.9	-67.1	4.11.81	4.12.81	482.0	7554.71	3140	441.9-448.0m: po(5-20),py(1-2); 448.0-450.9m: po(50-60),py(3-5),Cassiterite(0-5); 450.9-452.6m: po(10-15),py(2-3); 452.6-463.7m: po(5-15),py(1-2), tr. Cassiterite.	-228 -232 -242 -252	437.0 - 464.0m (27m) of 0.65% Sn, incl. 442.0 - 453.0m (11m) of 1.1% Sn.
82 SEVERN	1392.2	1095.5	183.6	269.2	-60.0	4.01.82	15.01.82	157.0	7711.71	2820	117.0-120.0: siderite lode, up to 40-50 py. 120.0-134.3: grey cavernous dolomite.	-90	127.0 - 128.0m 1.0m of 0.62% Sn.
83 MONTANA	2051.5	1239.4	180.8	351.0	-58.0	5.01.82	20.01.82	263.1	7974.81		No significant sulphide mineralisation noted.		
84 SEVERN	1799.1	1310.3	178.8	284.3	-65.0	20.01.82	31.3.82	471.0	8445.81	3310	368-457.3 Py & Po 1-2 (5) veins & dissem. incl. 426.7-428.2 Py 40veins. 432.8-433.75 Py, Po 30 cass. 1-2. 438.4-442 Po, Py 10-20(50) 457.3 - 471 Py Tr.	-227 -236	432.85-443.0m (10.15) of 0.84% Sn.
85 MONTANA	1944.7	1295.5	181.0	328.0	-61.7	26.01.82	19.3.82	89.0	8534.81	3630M	Abandoned by A.D.D. due to loss of rod string in drill hole.		
85A MONTANA	1945.41	1281.93	181.3	328.0	-61.7	23.3.82	In progress	480m					
86 MONTANA	2000.7	1136.8	181.5	334.1	-61.5	5.03.82	5.04.82	255.0		3520M	Abandoned due to rods failing to re-enter the drill hole after cementing. Wedge 86W commenced.		

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elev-ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
86 W MONTANA						Wedge from 206.0m	20.04.82	277.3		3520M	243.2-248.8: Siderite-qtz rock + tr. Sph & Gn. 248.8-252.0: Py(50)-siderite lode. 252.0-258.2: Siderite-qtz rock + tr. Sph & Gn.		
87 SEVERN	1491.6	1254.9	179.2	280.3	-63.5	14.04.82	In progress	312m		2990			

Date	9th March, 1982	Ref	
To	C.H. Young	From	J.R. Sise
At	Hawthorn East	At	Burnie
Copies to	E.H.S., R.A.O., S.R.	Keep	

Subject' GOLF COURSE - SEVERN - MONTANA DRILLING REPORT
FOR PERIOD 3 ENDING MARCH 8, 1982

Progress with the Zeehan programme was severely hampered during the period by drilling problems brought about mainly by poor ground conditions. A third drilling rig was commenced on March 5 in an attempt to make up lost meterage.

DDH G84 Severn

Exploration drill hole G84, designed to test the Severn zone at RL-200 is currently in progress at 364 m in Crimson Creek Formation. Due to a major fault zone which could not be penetrated, it was necessary to reduce to BQ at 268 m to allow the hole to progress. The target depth for an intersection of the Severn lode is expected to be 500 m in this drill hole.

DDH G85 Montana

Exploration drill hole G85, designed to test the Montana zone at RL-200 has not advanced beyond the 87 m reported last period. A sequence of problems has resulted in the rod string being lost down the hole. The contractors are endeavouring to recover the equipment at their own expense. If no progress has been made after a reasonable period, the drill hole will have to be re-collared and the liability for the additional charges resolved.

DDH G86 Montana

Exploration drill hole G86, designed to intersect the Montana mineralisation at RL -50 (Plate QH176) has just commenced. Survey information and co-ordinates are not yet available.

Geological Mapping

Detailed geological mapping based on new exposures created by costeaning and back-hoe pits was undertaken during the period in an attempt to resolve geological problems in the immediate vicinity of the Zeehan deposits.

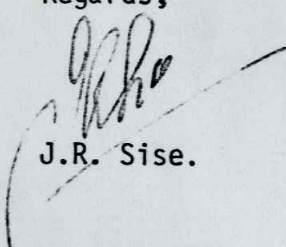
Correlation between the Montana and Golf Course beds leaves little doubt that these are the same stratigraphic horizon, but attempts to draw analogies with the Success Creek Group as observed at Renison are now abandoned in favour of the Montana-Golf Course beds forming part of the Precambrian Upper Oonah Formation. Erosion at the present Severn position has resulted in the removal of the Montana-Golf Course beds prior to Crimson Creek deposition during the Cambrian. Movement on the unconformity during subsequent orogenic cycles has resulted in faulting at the Crimson Creek - quartzite interface and ground preparation prior to Devonian mineralisation. This interpretation does not require the separation of the Montana and Golf Course areas by a major fault (displacement of 600M+) through Severn, for which surface geological evidence is lacking, particularly in the Poverty Point region.

Further geological mapping will continue, particularly in the regions south of Golf Course and north of Montana, in conjunction with the urgent up-dating of all 1:500 scale plans.

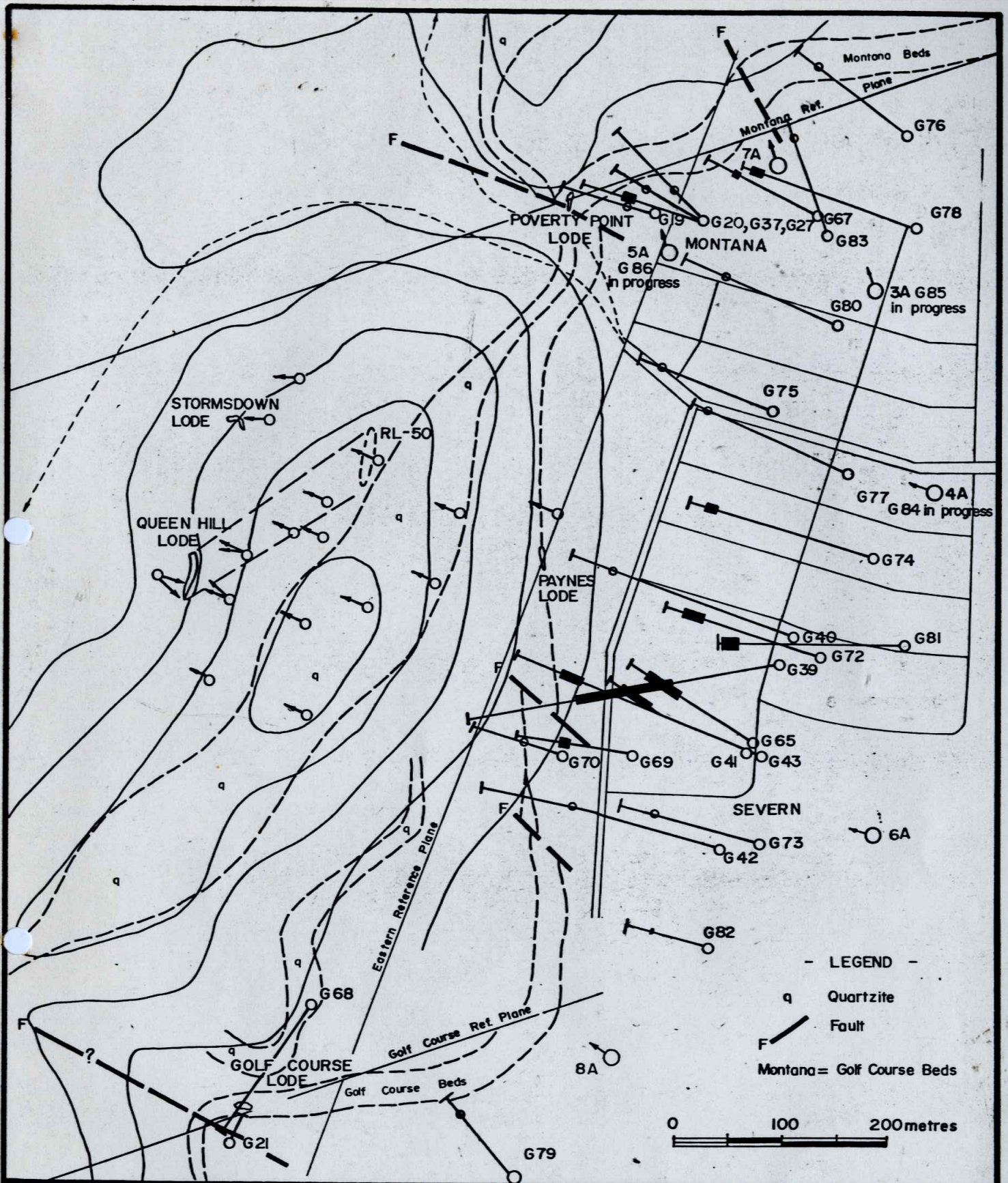
Drilling Summary for Period 3

1 drill hole collared; 119 metres drilled.

Regards,



J.R. Sise.

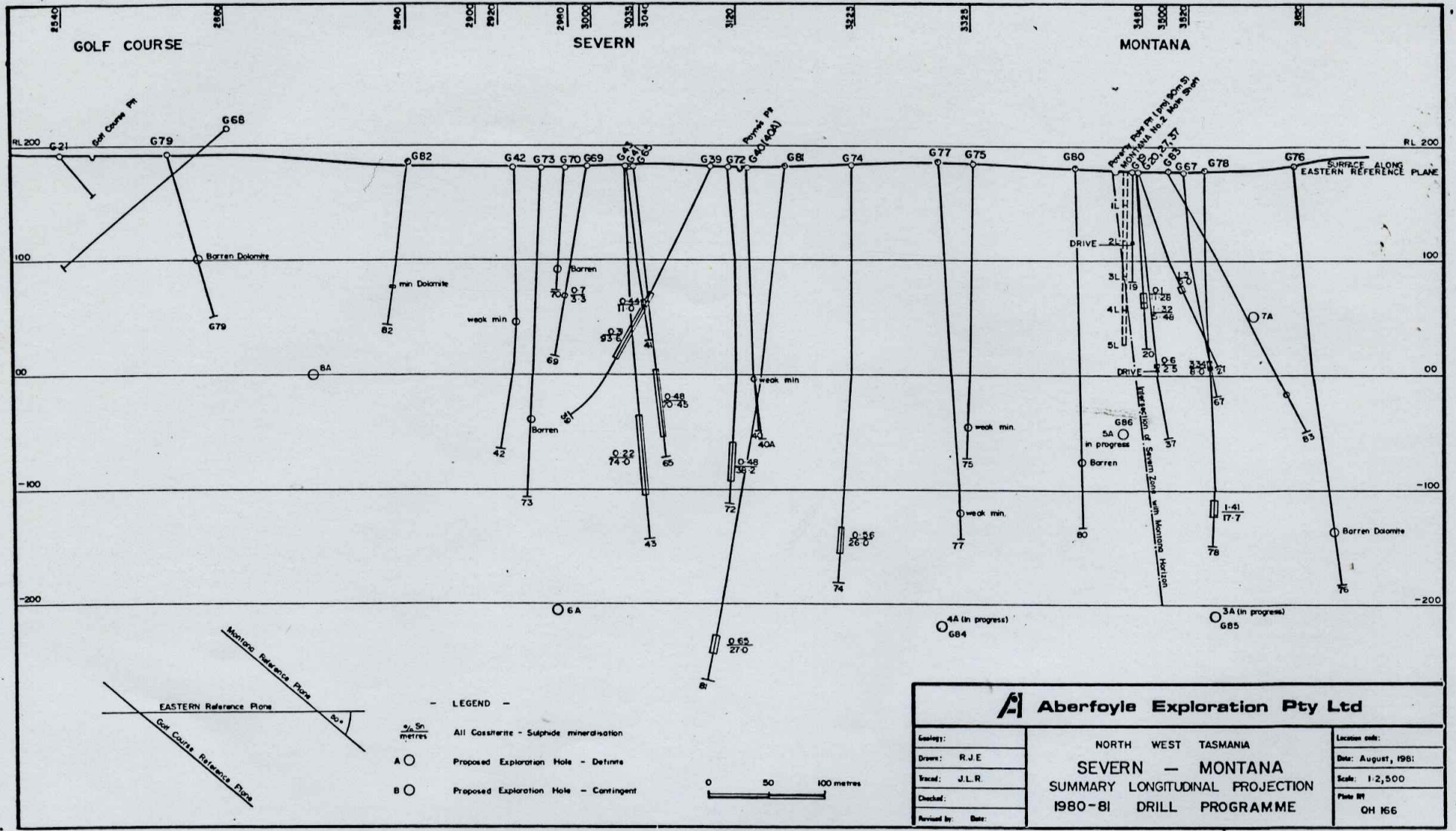


Aberfoyle Exploration Pty Ltd

Geology:	
Drawn:	
Traced: J.L.R.	
Checked:	
Revised by: Date:	

NORTH WEST TASMANIA
SUMMARY PLAN
 SEVERN - MONTANA - GOLF COURSE AREAS
 1981-82 DRILL PROGRAMME

Location code:	
Date: August, 1981	
Scale: As shown	
Plate No: QH 172	

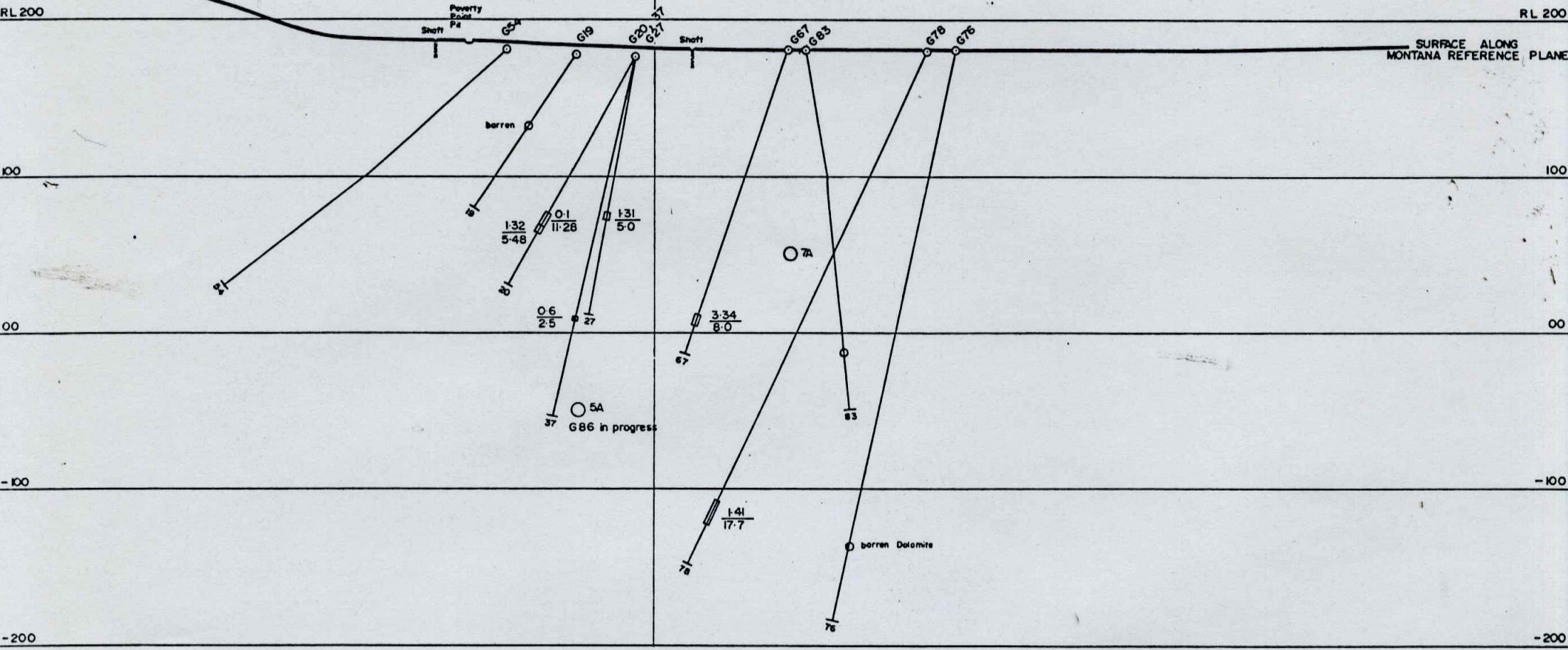


Cuts Eastern Reference
Plane at 3530
(062° Mag.)

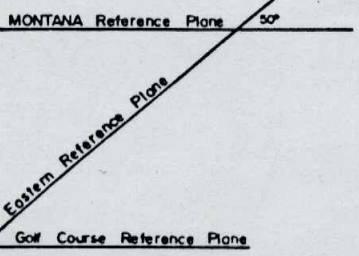
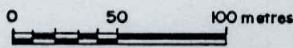
3480 M

3640 M

3680 M



○ 3A (in progress)



Aberfoyle Exploration Pty Ltd

Geology:	
Drawn:	R. J. E.
Traced:	
Checked:	
Revised by:	Date

NORTH WEST TASMANIA
MONTANA
SUMMARY LONGITUDINAL PROJECTION
1981-82 DRILL PROGRAMME

Location code:	
Date:	December, 1981
Scale:	1: 2,500
Plate No:	QH 176

SEVERN/MONTANA/GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates North	Co-ordinates East	Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
80 SEVERN	1960.5	1247.9	182.2	284.1	-60.6	21.10.81	13.11.81	355.0	7072.71	3420	No significant sulphide mineralisation noted		
81 SEVERN	1657.9	1291.0	179.8	267.9	-67.1	4.11.81	4.12.81	482.0	7554.71	3140	441.9-448.0m: po(5-20),py(1-2) 448.0-450.9m: po(50-60),py(3-5),Cassiterite(0-5); 450.9-452.6m: po(10-15),py(2-3); 452.6-463.7m: po(5-15),py(1-2), tr. Cassiterite.	-228 -232 -242 -252	437.0 - 464.0m (27m) of 0.65% Sn, incl. 442.0 - 453.0m (11m) of 1.1% Sn.
82 SEVERN	1392.2	1095.5	183.6	269.2	-60.0	4.01.82	15.01.82	157.0	7711.71	2820	117.0-120.0: siderite lode, up to 40-50 py. 120.0-134.3: grey cavernous dolomite.	90	127.0 - 128.0m 1.0m of 0.62% Sn.
83 MONTANA	2051.5	1239.4	180.8	351.0	-58.0	5.01.82	20.01.82	263.1	7974.81		No significant sulphide mineralisation noted.		
84 SEVERN	1799.1	1310.3	178.8	284.3	-65.0	20.01.82	In progress	364m					
85 MONTANA	1944.7	1295.5	181.0	328.0	-61.7	26.01.82	In progress	86m					

Date 10th February, 1982

Ref

To C.H. Young

From J.R. Sise

At Hawthorn East

At Burnie

Copies to E.H.S., R.A.O., S.R.

Keep

Drilling Reports

Subject GOLF COURSE - SEVERN - MONTANA - DRILLING REPORT
FOR PERIOD 2 ENDING FEBRUARY 8, 1982

DDH G82 Severn

Exploration drill hole G82, designed to test the Severn zone on section 2820 at R.L. 00, was commenced on January 4 and completed on January 15, 1982, at a depth of 157.0 metres. The hole was collared in Crimson Creek Formation and intersected the typical Montana - Golf Course siltstone marker bed between 114.9 and 117.0 metres. A siderite-dolomite lode was intersected between 117.0 and 120.0 metres with the interval 117-118 metres containing 40-50% pyrite. Grey cavernous dolomite occurred between 120.0 and 134.3 metres with the hole passing into Oonah Quartzite and Slate Formation at 145.6 metres. Assay results for the interval 116.0-135.0 metres are ~~not yet~~ available. *127-128m returned an assay of 0.62% Sn. Pb, Zn, Ag results to come.*

DDH G83 Montana

Exploration drill hole G83, designed to test the Montana zone at R.L. 00, was commenced on January 5 and completed on 20 January, 1982 at 263.1 metres. Due to structural complexities yet to be resolved, the Montana sequence was not intersected in the target zone. No significant sulphide mineralisation was noted.

DDH G84 Severn

Exploration drill hole G84, designed to test the Severn zone at R.L. -200 beneath drill holes G75 and G77 (Plate No. QH 166) was commenced on January 20 and is currently in progress at 245 m in Crimson Creek Formation.

DDH G85 Montana

Exploration drill hole G85, designed to test the Montana zone at R.L. -200, was commenced on January 26 and has advanced 87 metres in Crimson Creek Formation.

Down Hole E.M. Survey

Geoex were contracted to complete down hole E.M. surveys on five recent drill holes which had previously been cased with p.v.c. (G78, 79, 80, 82, 83). Formal data presentation is yet to be completed, but field observations during the survey indicate:-

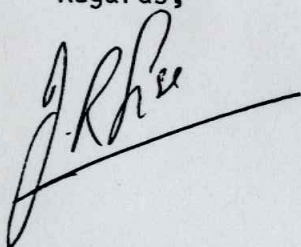
- G80 and G83: No 'in-hole' or 'off-hole' conductors detected.
- G78: Typical response due to a strong 'in-hole' conductor recorded. (This hole achieved a sulphide intersection of 17.7 m @ 1.41% Sn)
- G79: Response due to an 'off-hole' conductor recorded.
- G82: Response due to an 'off-hole' conductor with a minor 'in-hole' effect recorded. This result accords with the minor massive sulphide reported above.

The results of the E.M. programme give encouragement for the location of further mineralisation in the southern Severn - Golf Course area.

Drilling Summary for Period 2

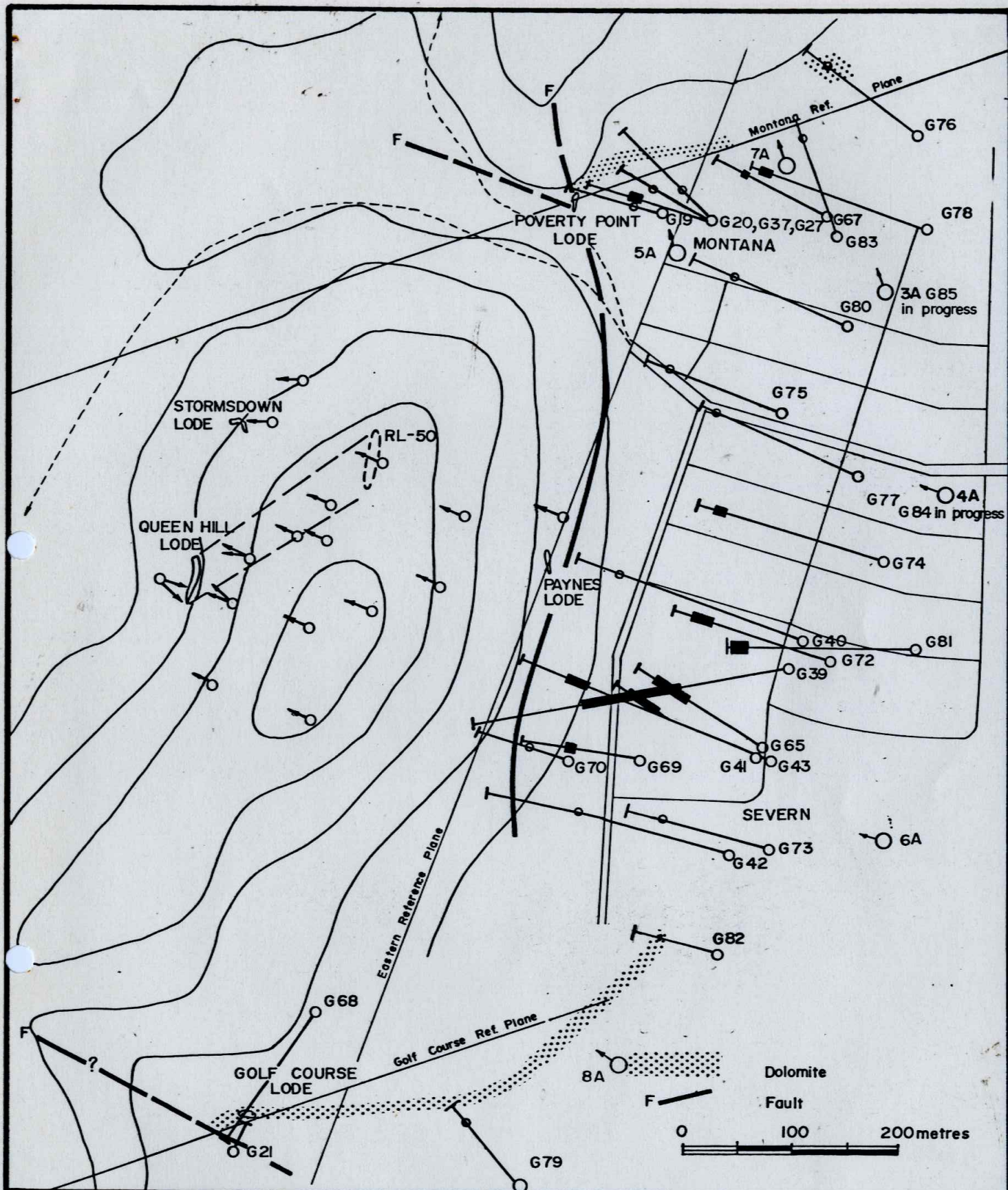
2 drill holes collared. 542 metres drilled.

Regards,

A handwritten signature in black ink, appearing to be 'J.R.H.', written over a horizontal line.

SEVERN / MONTANA / GOLF COURSE — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
80 SEVERN	1960.5	1247.9	182.2	284.1	-60.6	21.10.81	13.11.81	355.0	7072.71	3420	No significant sulphide mineralisation noted		
81 SEVERN	1657.9	1291.0	179.8	267.9	-67.1	4.11.81	4.12.81	482.0	7554.71	3140	441.9-448.0m: po(5-20),py(1-2) 448.0-450.9m: po(50-60),py(3-5),Cassiterite(0-5); 450.9-452.6m: po(10-15),py(2-3); 452.6-463.7m: po(5-15),py(1-2), tr. Cassiterite.	-228 -232 -242 -252	437.0 - 464.0m (27m) of 0.65% Sn, incl. 442.0 - 453.0m (11m) of 1.1% Sn.
82 SEVERN	1392.2	1095.5	183.6	269.2	-60.0	4.01.82	15.01.82	157.0	7711.71	2820	117.0-120.0: siderite lode, up to 40-50 py. 120.0-134.3: grey cavernous dolomite.	90	127.0 - 128.0m 1.0m of 0.62% Sn.
83 MONTANA	2051.5	1239.4	180.8	351.0	-58.0	5.01.82	20.01.82	263.1	7974.81		No significant sulphide mineralisation noted.		
84 SEVERN	1799.1	1310.3	178.8	284.3	-65.0	20.01.82	In progress	245m					
85 MONTANA	1944.7	1295.5	181.0	328.0	-61.7	26.01.82	In progress	86m					



Aberfoyle Exploration Pty Ltd

Geology:	NORTH WEST TASMANIA	Location code:
Drawn:	SUMMARY PLAN	Date: August, 1981
Traced: J.L.R.	SEVERN - MONTANA - GOLF COURSE AREAS	Scale: As shown
Checked:	1981-82 DRILL PROGRAMME	Plate No
Revised by: Date:		QH 172

Cuts Eastern Reference Plane at 3530 (062° Mag.)

480 M

3640 M

3680 M

RL 200

RL 200

SURFACE ALONG MONTANA REFERENCE PLANE

100

100

00

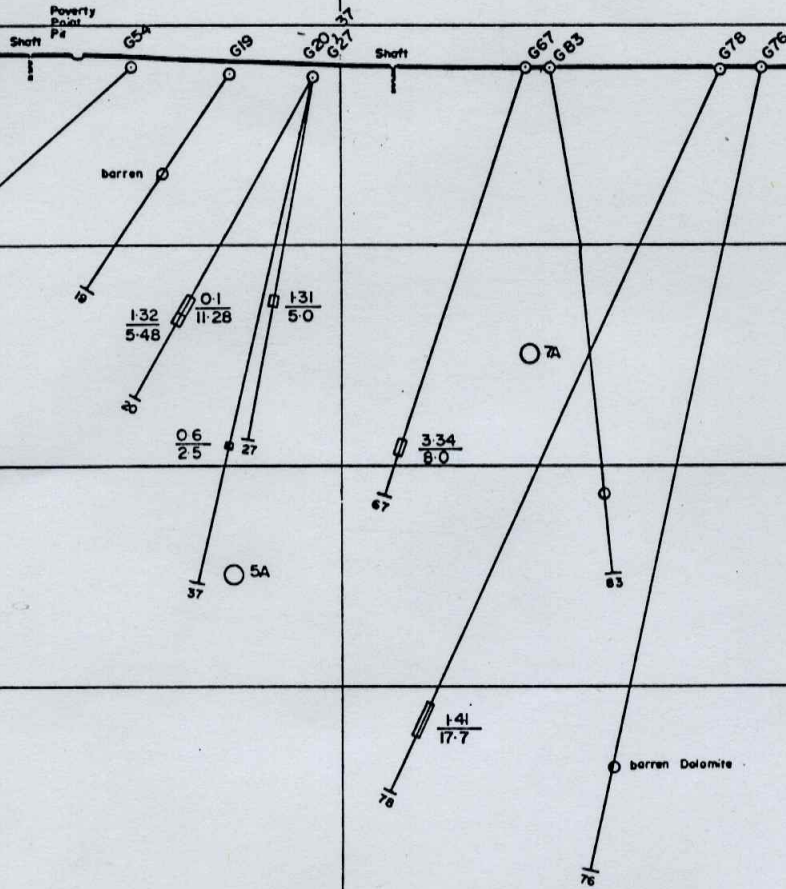
00

-100

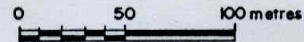
-100

-200

-200



○ 3A (in progress)



MONTANA Reference Plane 50°

Eastern Reference Plane

Golf Course Reference Plane

A Aberfoyle Exploration Pty Ltd

Geology:
 Drawn: R. J. E.
 Traced:
 Checked:
 Revised by: Date:

NORTH WEST TASMANIA
MONTANA
 SUMMARY LONGITUDINAL PROJECTION
 1981-82 DRILL PROGRAMME

Location code:
 Date: December, 1981
 Scale: 1:2,500
 Plate No:
 QH 176

Date January 11, 1982

Ref

To C. H. Young

From J. R. Sise

At Hawthorn East

At Burnie

Copies to E. H. Skey, S. Richardson

Keep

Subject

GOLF COURSE - SEVERN - MONTANA - DRILLING REPORT
FOR PERIOD 1 B ENDING JANUARY 11, 1982.

The drilling operations at Zeehan were curtailed during the period by the contractors closing down for the Christmas - New Year break between December 18, 1981 and January 4, 1982.

DDH G79 Golf Course

Assay results have been received for the quartz - siderite lode intersected between 104.5 and 112.0 metres. An interval of 7.5 metres of 0.13% Sn, 0.14% Pb, and 0.13% Zn is reported. Although this mineralisation is only weak, its presence is encouraging.

DDH G81 Severn

As reported last period, significant pyrrhotite - pyrite mineralisation was intersected in this drill hole. The main ore zone from 437.0 to 464.0 has returned an assay of 0.65% Sn over the 27.0 metres and includes 11 metres (442 - 453m) of 1.1% Sn. Other intervals to be split and assayed were 345.0 - 370.0 ; 391.0 - 414.0; 430.0 - 437.0. Most values reported less than 0.1% Sn with the only geologically discernable interval being 408.0 - 412.0 (4.0m) of 0.48% Sn.

G82 Severn and G83 Montana

These two exploration drill holes were commenced on January 4th and 6th respectively to test the positions indicated on the attached longitudinal projections. Survey data has not yet been processed and will be shown on the next summary sheet.

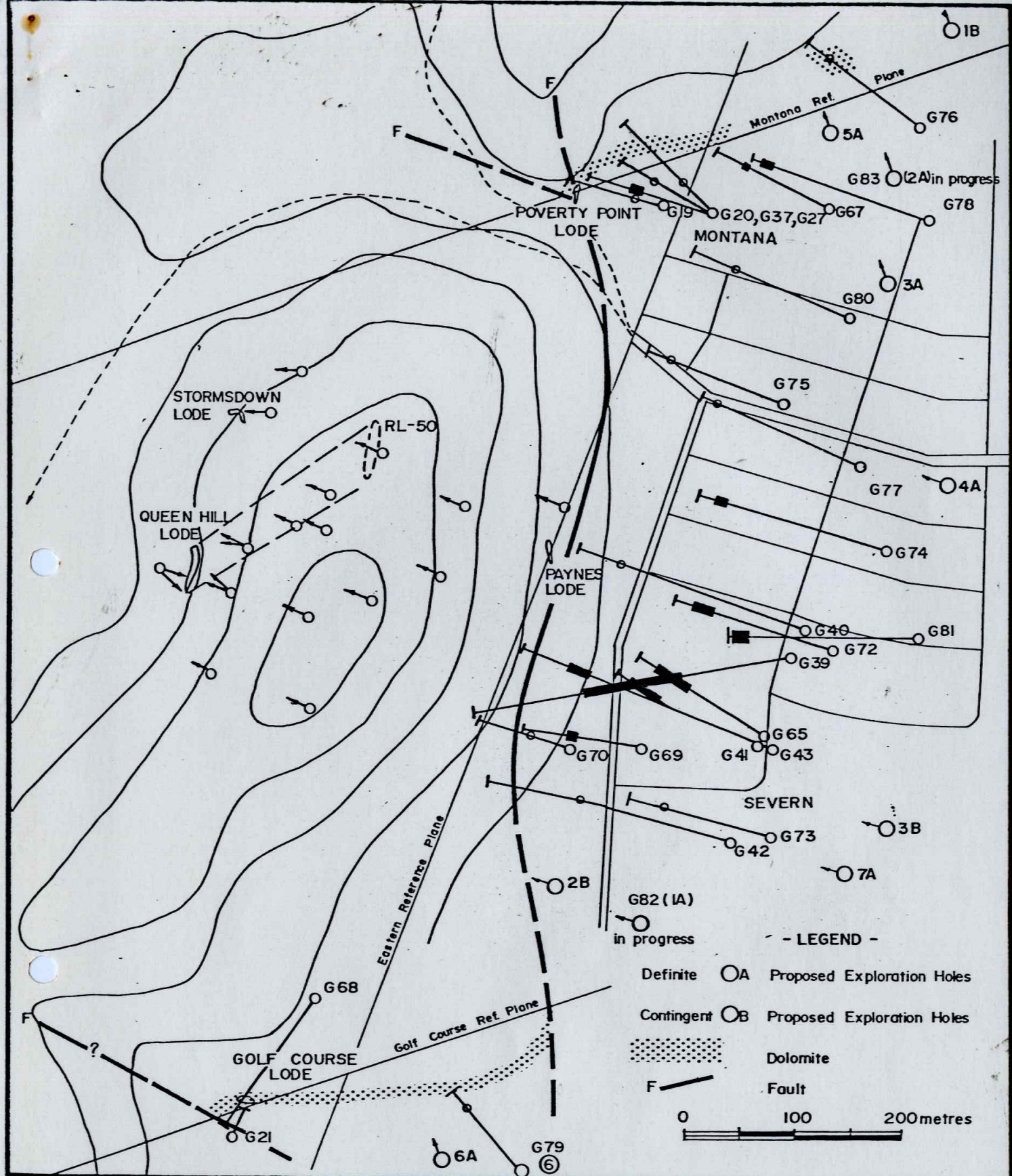
Drilling Summary for Period 1 B

2 drill holes collared.

177 metres drilled.

Regards,



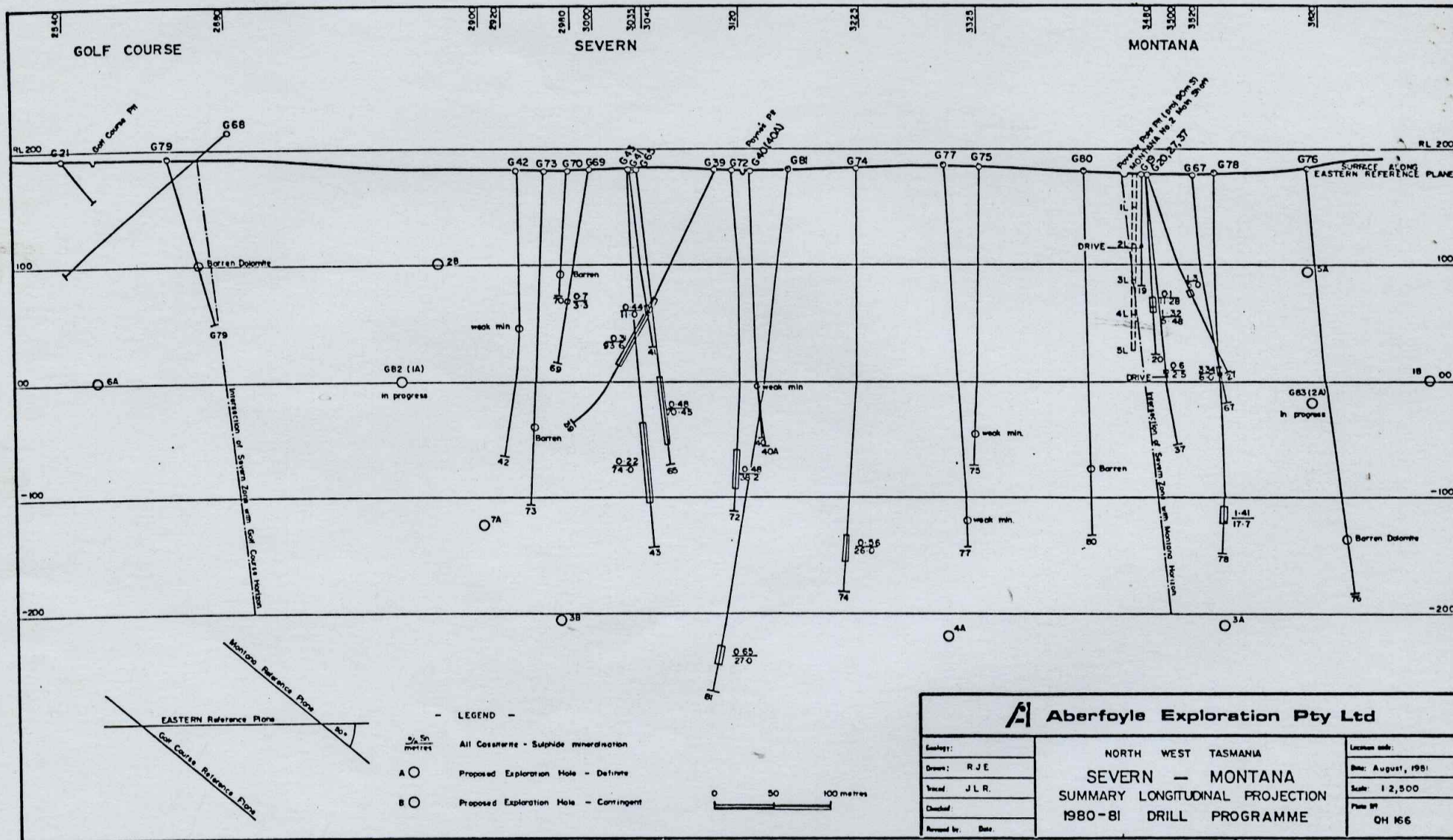


A Aberfoyle Exploration Pty Ltd

Geology:	
Drawn:	
Traced: J.L.R.	
Checked:	
Revised by: Date:	

NORTH WEST TASMANIA
 SUMMARY PLAN
 SEVERN - MONTANA - GOLF COURSE AREAS
 1981 - 82 DRILL PROGRAMME

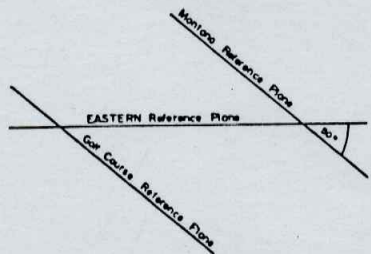
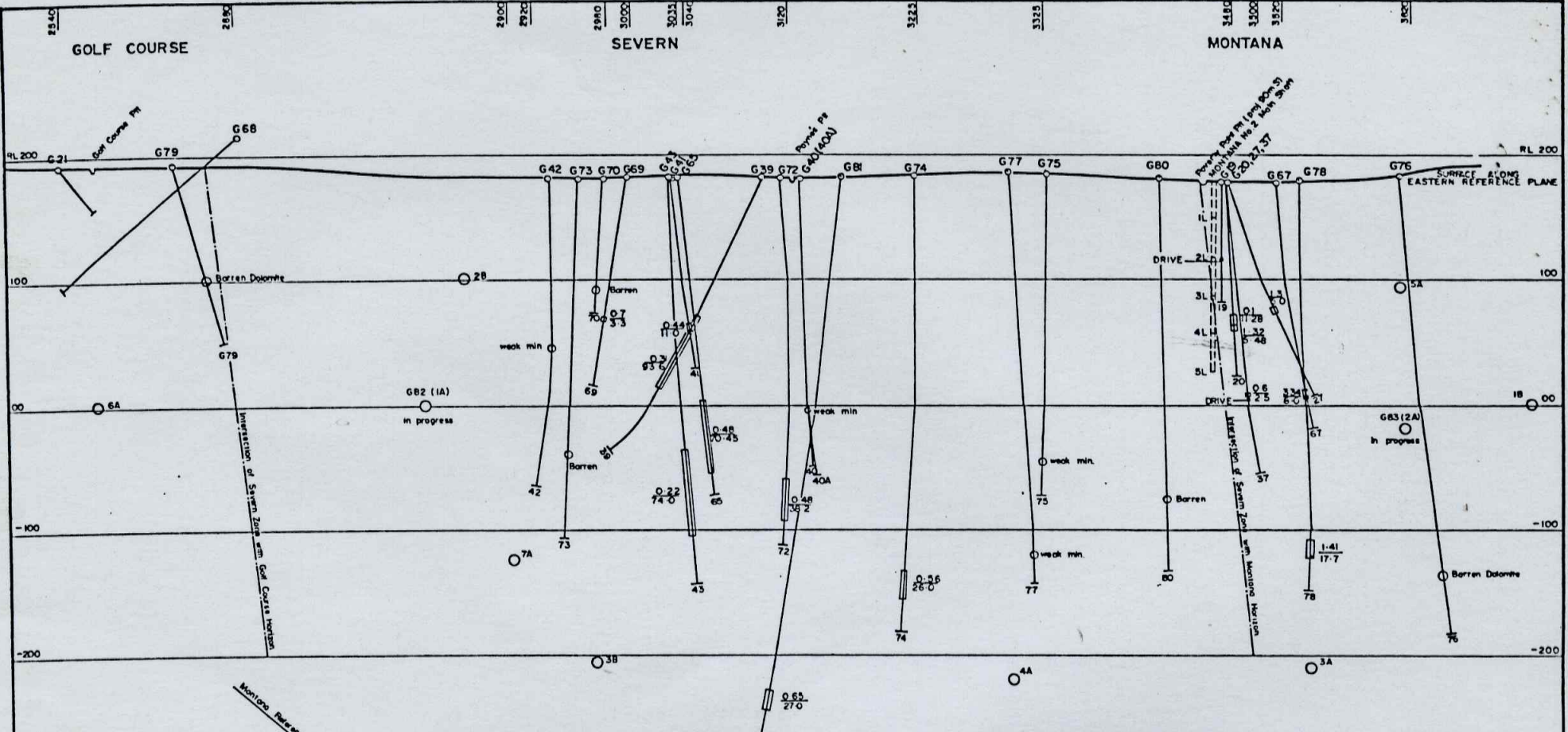
Location code:	
Date: August, 1981	
Scale: As shown	
Plate No	QH 172



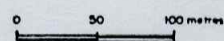
GOLF COURSE

SEVERN

MONTANA

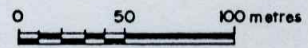
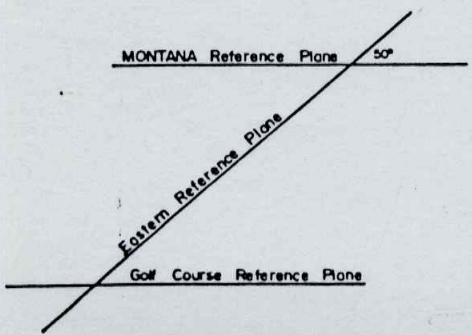
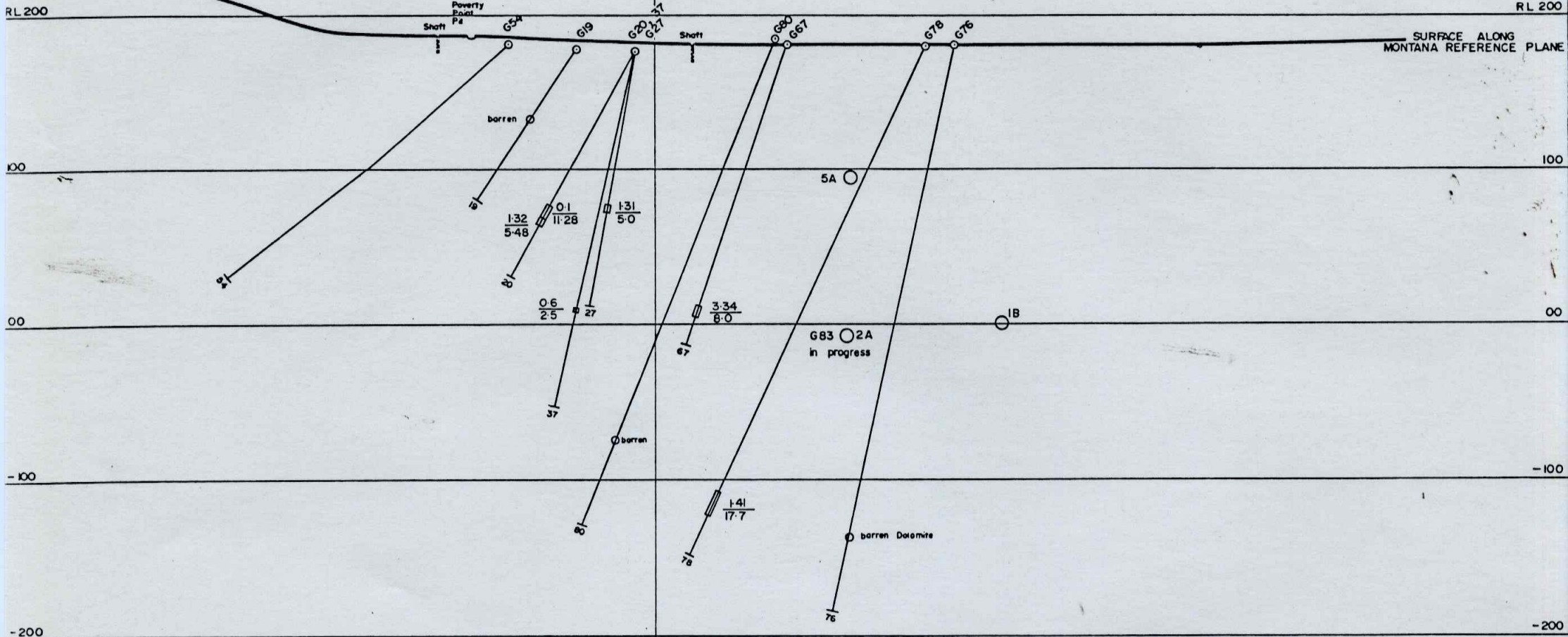


- LEGEND -
- All Cassinette - Sulphide mineralization
 - A ○ Proposed Exploration Hole - Definite
 - B ○ Proposed Exploration Hole - Contingent



Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA	Licence no.:
Drawn: R J E	SEVERN — MONTANA	Date: August, 1981
Trace: J L R.	SUMMARY LONGITUDINAL PROJECTION	Scale: 1 2,500
Checked:	1980-81 DRILL PROGRAMME	Plan No: OH 166
Reviewed by: Date:		

Cuts Eastern Reference
Plane at 3530
(062° Mag.)



Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA MONTANA	Location code:
Drawn: R. J. E.	SUMMARY LONGITUDINAL PROJECTION 1981-82 DRILL PROGRAMME	Date: December, 1981
Traced:		Scale 1: 2,500
Checked:		Plate No
Revised by: Date		QH 176

SEVERN/MONTANA/GOLF COURSE—Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
74 SEVERN	1742.5	1252.1	179.8	281.0	-62.6	7.4.81	21.7.81	398.0	5136.81	3225	845.3-363.7m: Pyrite and trace pyrrhotite as stringer veins. 863.7-370.8m: Zone of massive pyrite veins with minor cassiterite.	-133 -150 -155	345.0-371.0m(26m) of 0.56%Sn, Inc. 363.7-371.0m (7.3m) of 1.67%Sn (Check Assays)
75 SEVERN	1889.5	1181.4	181.2	281.2	-60.5	29.07.81	24.08.81	287.5	5424.31	3330	258.4-258.7m: Massive pyrite. No other significant sulphide mineralisation noted.	-45	Weak min. < 0.1% Sn.
76 MONTANA	2138.8	1313.9	178.8	298.0	-68.8	31.07.81	27.08.81	385.5	5809.81	3640	No significant sulphide mineralisation noted.		
77 SEVERN	1831.2	1238.1	179.7	289.7	-62.8	27.08.81	29.10.81	361.0	6170.81	3300	331.8 - 339.5m : Pyrite 5-10% as disseminations & veinlets.	-120 -127	Weak min. < 0.1%Sn
78 MONTANA	2050.3	1321.7	179.3	285.4	-57.4	01.09.81	01.10.81	377.4	6548.21	3540	332.15-349.85m: Zone of massive pyrite-pyrrhotite vein mineralisation in quartz-siderite rock.	-108 -123	332.15-349.85m: 17.7m of 1.41%Sn
79 GOLF COURSE	1191.5	901.3	189.3	312.3	-59.8	06.10.81	17.10.81	169.5	6717.71	2580	104.5-111.7m: Sideritic lode with trace py.	95	104.5-112.0 (7.5)m of 0.13%Sn, 0.14% Pb, and 0.13% Zn.

Date 14 December, 1981

Ref

To C.H. Young

From J.R. Sise

At Hawthorn East

At Burnie

Copies to E.H. Skey, S. Richardson

Keep

Subject GOLF COURSE - SEVERN - MONTANA DRILLING REPORT FOR
PERIOD 1A ENDING DECEMBER 14, 1981.

Please find attached the summary sheets, summary longitudinal projections and plan for Golf Course - Severn - Montana. Note that new longitudinal projections have been constructed for the Golf Course and Montana areas to take account of the strike of the stratigraphy. This information was previously projected on the Queen Hill - Severn reference plane, which being oblique to the stratigraphy, gave a misleading presentation. A summary longitudinal projection is included with this report on which the intersection of the Severn zone with the Montana and Golf Course horizon is shown.

DDH G77 SEVERN

Assay results are to hand for the zone of pyrite mineralisation (5-10%) as disseminations and veinlets intersected between 331.8 and 339.5 metres. Weak mineralisation of less than 0.1% Sn is indicated.

DDH G79 GOLF COURSE

Two zones of quartz-siderite lode from this drill hole were submitted for assay. Although devoid of significant tin mineralisation, the following lead and zinc values were reported:
88.0 to 91.0 metres: 3m of 1.4% Zn, 0.66% Pb, 104.5 to 109.0 metres: 4.5m of 0.17% Zn, 0.18% Pb.

DDH G81 SEVERN

Exploration drill hole G81 on section 3120, designed to test the Severn zone at R.L. -200 beneath the mineralisation encountered in G72, was commenced on November 4 and completed on December 4 at a depth of 482.0 metres. From 0-463.7 metres the drill hole intersected typical Crimson Creek Formation. From 463.7 to 465.0 metres a thin band of conglomeratic mudstone marked the contact with the underlying light grey shales of the Oonah Quartzite and Slate Formation which occupied the interval 465.0 to 482.0 metres (end of hole).

Significant sulphide mineralisation was intersected between 441.9 and 463.7 metres with the interval 437 - 465m being split and currently assayed at CTNL.

The interval is as follows:

441.9 - 448.0m: Po (5-20), Py (1-2); 448 - 450.9m: Po(50-60),
Py (3-5), Cassiterite (0-5); 450.9 - 452.6m: Po (10-15), Py (2-3);
452.6 - 463.7 m : Po (5-15), Py (1-2), tr. cassiterite.

SAMPLING :

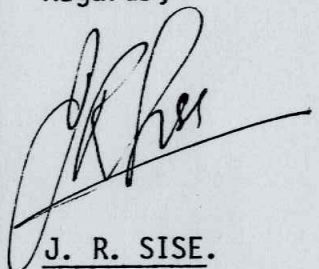
Assay results have been received from eight (8) pit samples collected in the Montana area. Only one sample (700 ppm) was greater than 100 ppm Sn.

Drilling SUMMARY FOR PERIOD 1 A

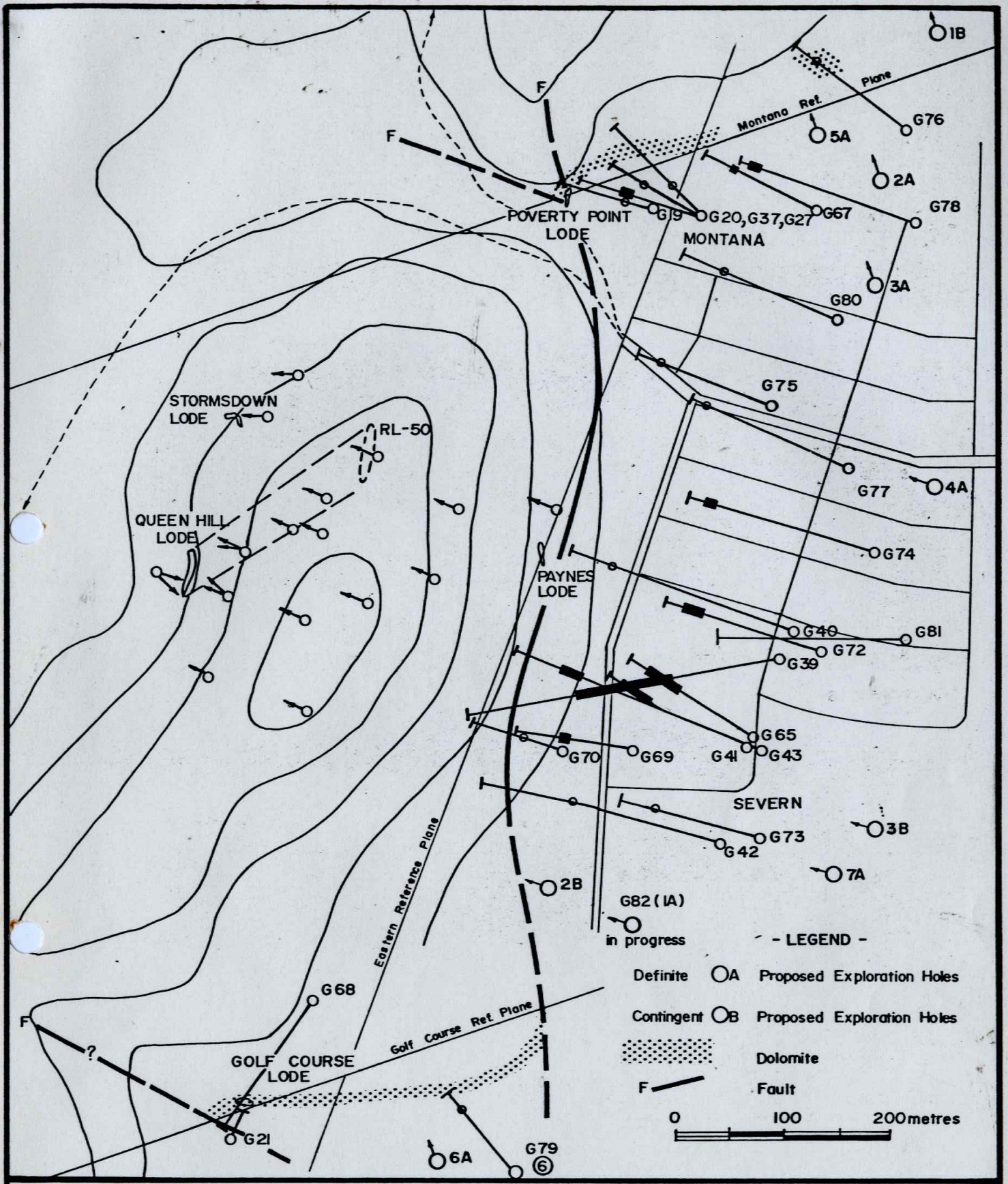
No drill holes were collared

Metres drilled G 81 220 - 482
 262.0 metres

Regards,



J. R. SISE.

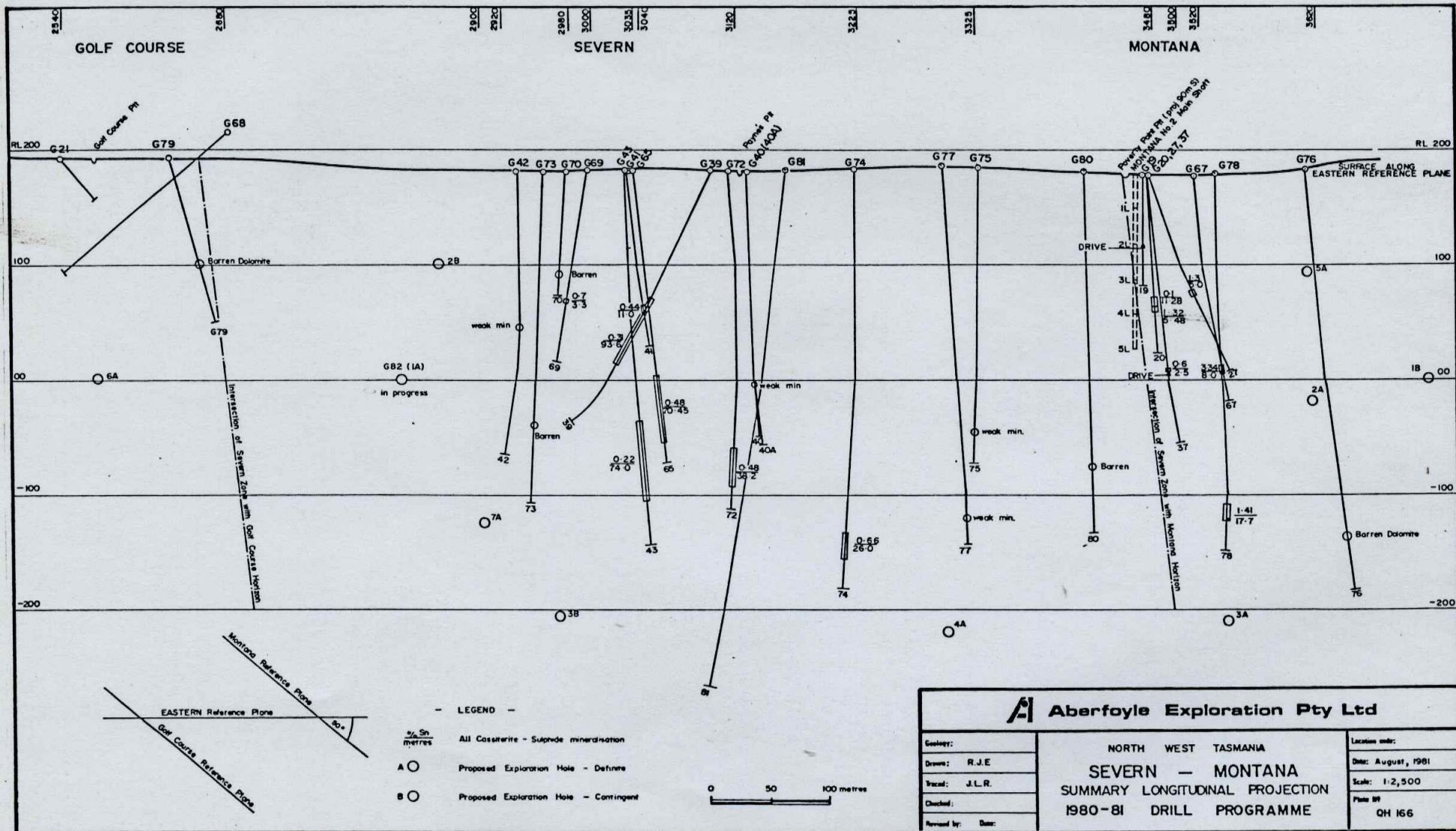


Aberfoyle Exploration Pty Ltd

Geology:	
Drawn:	
Traced:	J. L. R.
Checked:	
Revised by:	Date:

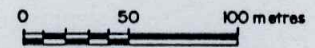
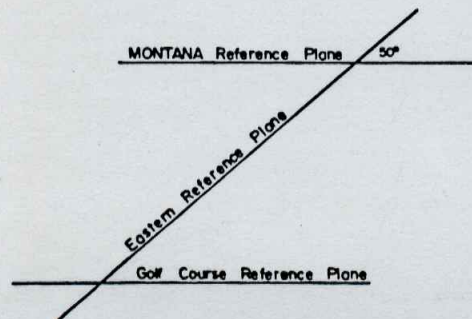
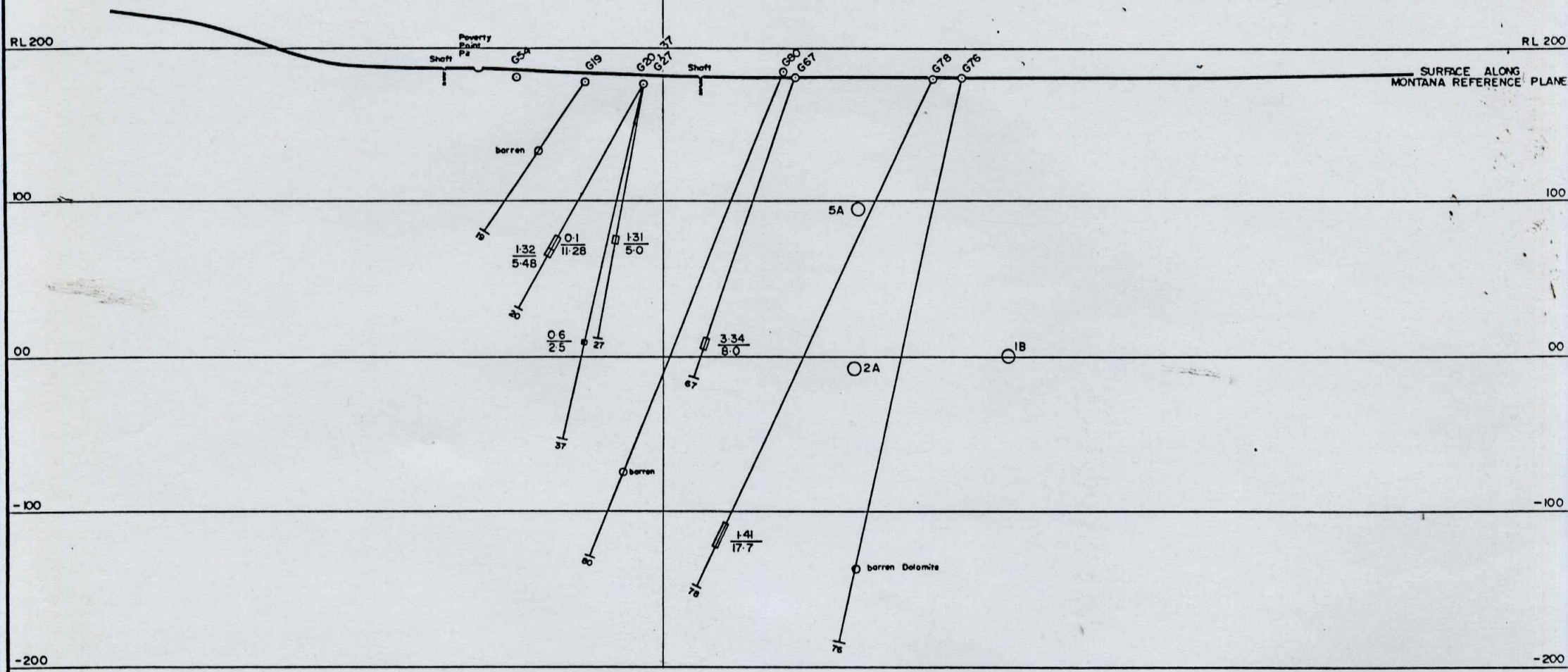
NORTH WEST TASMANIA
SUMMARY PLAN
 SEVERN - MONTANA - GOLF COURSE AREAS
1981 - 82 DRILL PROGRAMME

Location code:	
Date:	August, 1981
Scale:	As shown
Plate No	QH 172



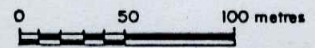
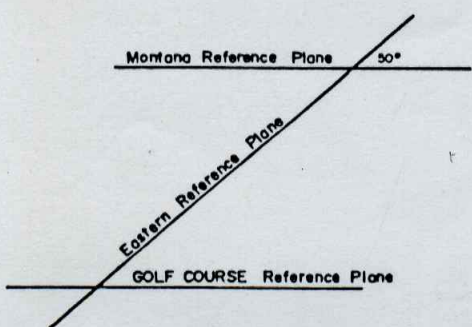
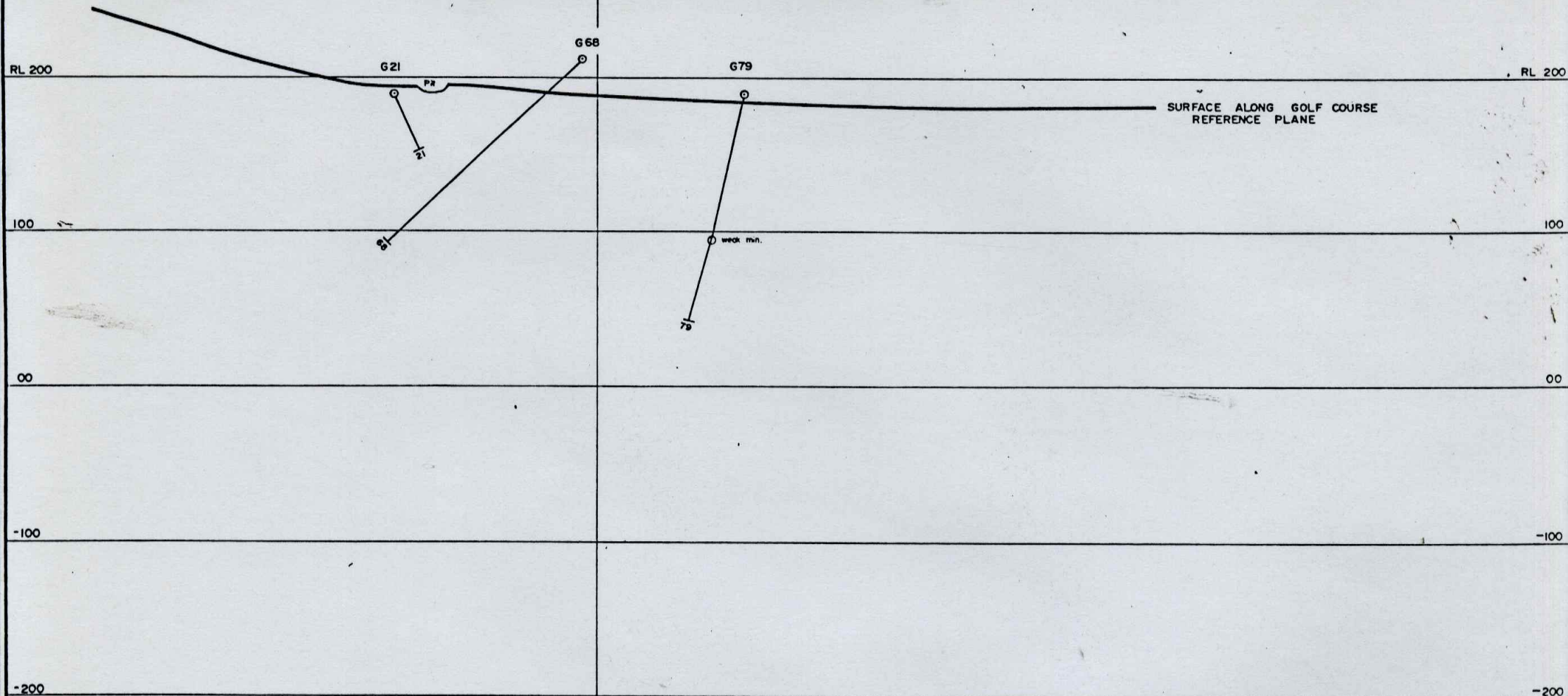
A Aberfoyle Exploration Pty Ltd	
Geology:	NORTH WEST TASMANIA
Drawn: R.J.E.	SEVERN - MONTANA
Traced: J.L.R.	SUMMARY LONGITUDINAL PROJECTION
Checked:	1980-81 DRILL PROGRAMME
Revised by: Date:	
Location code:	QH 166
Date:	August, 1981
Scale:	1:2,500
Plate No:	

Cuts Eastern Reference
Plane at 3530
(062° Mag.)



Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA MONTANA	Location code:
Drawn: R. J. E.	SUMMARY LONGITUDINAL PROJECTION 1981-82 DRILL PROGRAMME	Date: December, 1981
Traced:		Scale: 1:2,500
Checked:		Plate No:
Revised by: Date:		QH 176

Cuts Eastern Reference
Plane at 2640
(062° Mag.)



Aberfoyle Exploration Pty Ltd

Geology:
 Drawn: R.J.E.
 Traced:
 Checked:
 Revised by: Date:

NORTH WEST TASMANIA
GOLF COURSE
 SUMMARY LONGITUDINAL PROJECTION
 1981-82 DRILL PROGRAMME

Location code:
 Date: December, 1981
 Scale: 1 : 2,500
 Plate No.
 QH 178

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
74 SEVERN	1742.5	1252.1	179.8	281.0	-62.6	7.4.81	21.7.81	398.0	5136.81	3225	345.3-363.7m: Pyrite and trace pyrrhotite as stringer veins. 363.7-370.8m: Zone of massive pyrite veins with minor cassiterite.	-133 -150 -155	345.0-371.0m(26m) of 0.66%Sn, Inc. 363.7-371.0m (7.3m) of 1.99%Sn
75 SEVERN	1889.5	1181.4	181.2	281.2	-60.5	29.07.81	24.08.81	287.5	5424.31	3330	258.4-258.7m: Massive pyrite. No other significant sulphide mineralisation noted.	-45	Weak min. < 0.1% Sn.
76 MONTANA	2138.8	1313.9	178.8	298.0	-68.8	31.07.81	27.08.81	385.5	5809.81	3640	No significant sulphide mineralisation noted.		
77 SEVERN	1831.2	1238.1	179.7	289.7	-62.8	27.08.81	29.10.81	361.0	6170.81	3300	331.8 - 339.5m : Pyrite 5-10% as disseminations & veinlets.	-120 -127	Weak min. < 0.1%Sn
78 MONTANA	2050.3	1321.7	179.3	285.4	-57.4	01.09.81	01.10.81	377.4	6548.21	3540	332.15-349.85m: Zone of massive pyrite-pyrrhotite vein mineralisation in quartz-siderite rock.	-108 -123	332.15-349.85m: 17.7m of 1.41%Sn
79 GOLF COURSE	1191.5	901.3	189.3	312.3	-59.8	06.10.81	17.10.81	169.5	6717.71	2580	104.5-111.7m: Sideritic lode with trace py.	95	Weak min. < 0.1% Sn

SEVERN / MONTANA / GOLF COURSE — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
80 SEVERN	1960.5	1247.9	182.2	284.1	-60.6	21.10.81	13.11.81	355.0	7072.71	3420	No significant sulphide mineralisation noted		
81 SEVERN	1657.9	1291.0	179.8	267.9	-67.1	4.11.81	4.12.81	482.0	7554.71	3140	441.9-448.0m: po(5-20),py(1-2) 448.0-450.9m: po(50-60),py(3-5),Cassiterite(0-5); 450.9-452.6m: po(10-15),py(2-3); 452.6-463.7m: po(5-15),py(1-2), tr. Cassiterite.	-232 -251	

Date 16, November, 1981. Ref
To C. H. Young From J. R. Sise
At Hawthorn East At Burnie
Copies to E.H. Skey, S. Richardson Keep

Subject SEVERN - MONTANA - GOLF COURSE DRILLING REPORT FOR PERIOD 12
ENDING NOVEMBER 16, 1981.

Please find attached the summary sheets, summary longitudinal projection and plan for Golf Course - Severn - Montana.

DDH G77 (3) SEVERN

Exploration drill hole G77 on section 3330 was completed on October 29 at a depth of 361.0 metres. Pyrite (5-10%) as disseminations and veinlets was intersected between 331.8 and 339.5 metres. This interval has been split and submitted for assay. From 0 - 334.3 metres the drill hole intersected typical Crimson Creek Formation. At 334.3 metres the hole passed into quartzite and slate of the Oonah Formation and finally at 340.5 metres into massive quartzite.

DDH G80 (5) MONTANA

Exploration drill hole G80 on section 3425, designed to test the Severn - Montana zone at RL - 100 was commenced on October 21 and completed on November 13, at a depth of 355.0 metres. From 0 - 289.0 metres the hole passed through typical Crimson Creek Formation before entering the Oonah Quartzite and Slate Formation which persisted to the end of the hole (289.0 - 355.0m) No mineralisation was encountered.

DDH G81 (8) SEVERN

Exploration drill hole G81 on section 3120, designed to test the Severn zone at RL - 200 beneath the mineralisation encountered in G72, was commenced on November 4 and is currently in progress at 220.0 metres in the Crimson Creek Formation.

GENERAL

With only one drill hole currently in progress, the second drill rig is being utilised to place P.V.C. casing in drill holes G78, G79 and G80. This operation will serve to keep the holes open for the proposed down-hole E.M. survey.

A further drill hole (9) is planned to test the Severn - Golf Course zone at RL 00 at a position 100 metres from G42 approximating to section 2820. (See attachments).

Cont...

SAMPLING

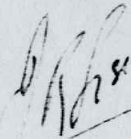
To aid geological interpretation and the siting of future drill holes at Montana, the mapping and sampling of all pit exposures in that area has been completed. Assay results are awaited.

DRILLING SUMMARY FOR PERIOD 12

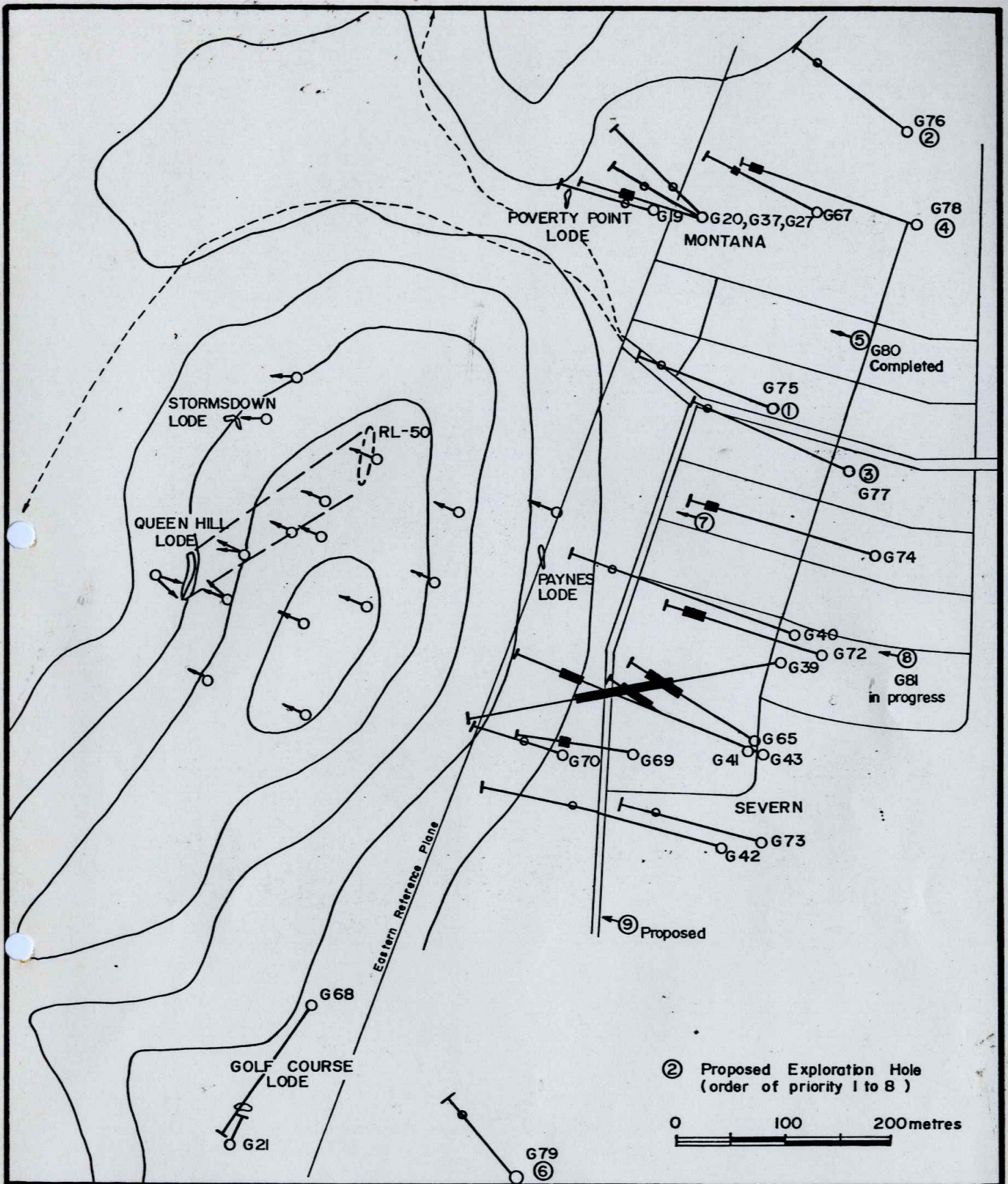
Two drill holes were collared.

Metres drilled :	G77	300.0 - 361.0
	G80	0 - 355.0
	G81	0 - 220.0
		<hr/>
		636.0 metres

Regards,



J. R. SISE.

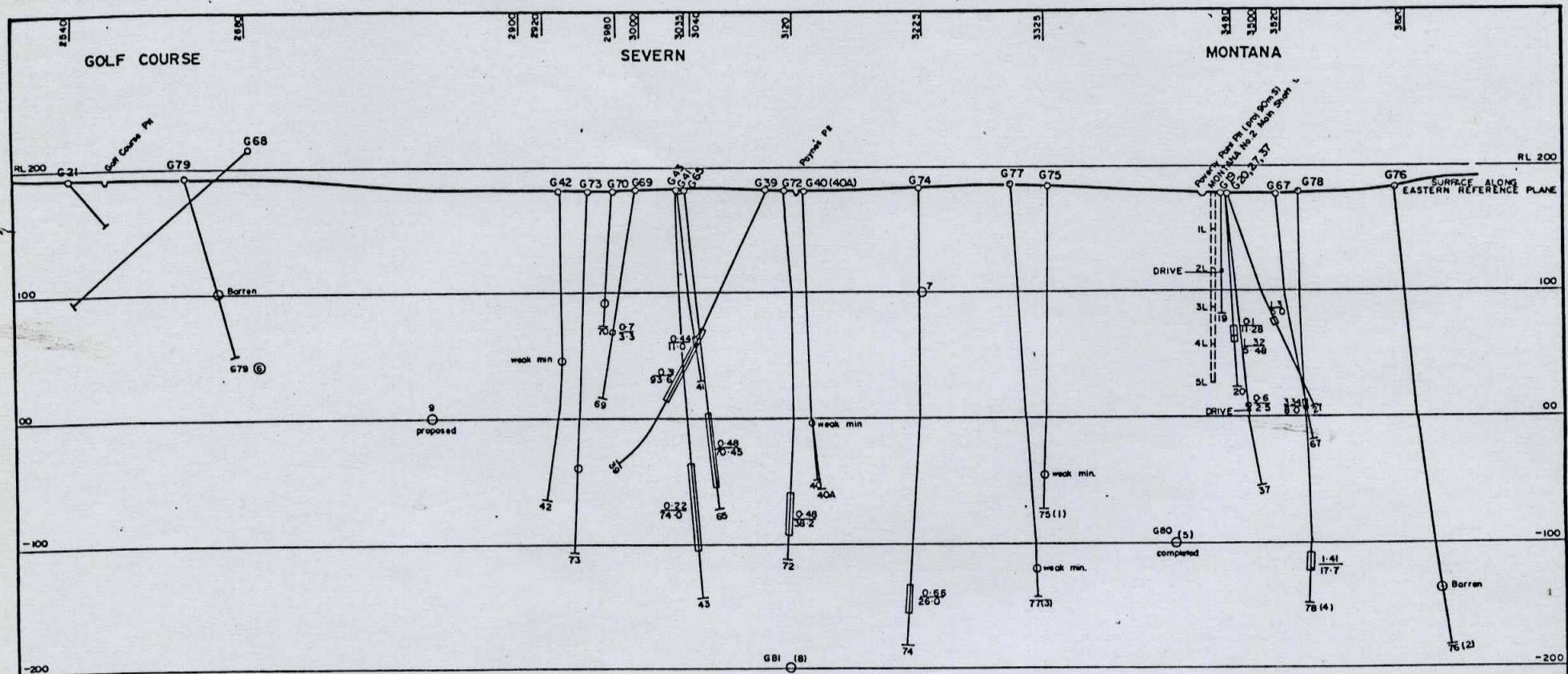


Aberfoyle Exploration Pty Ltd

Geology:	
Drawn:	
Traced:	J. L. R.
Checked:	
Revised by:	Date:

NORTH WEST TASMANIA
SUMMARY PLAN
 SEVERN - MONTANA - GOLF COURSE AREAS
1981 - 82 DRILL PROGRAMME

Location code:	
Date:	August, 1981
Scale:	As shown
Plate No	QH 172



LEGEND

- Cassiterite - Sulphide mineralisation
- Proposed Exploration Hole

0 50 100metres Week Ending

A/ Aberfoyle Exploration Pty Ltd

Geology:
 Drawn: R.J.E.
 Traced: J.L.R.
 Checked:
 Approved by: Date:

NORTH WEST TASMANIA
SEVERN - MONTANA
 SUMMARY LONGITUDINAL PROJECTION
 1980-81 DRILL PROGRAMME

Location code:
 Date: August, 1981
 Scale: 1:2,500
 Plate No: QH 166

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
74 SEVERN	1742.5	1252.1	179.8	281.0	-62.6	7.4.81	21.7.81	398.0	5136.81	3225	345.3-363.7m: Pyrite and trace pyrrhotite as stringer veins. 363.7-370.8m: Zone of massive pyrite veins with minor cassiterite.	-133 -150 -155	345.0-371.0m (26m) of 0.66%Sn, Inc. 363.7-371.0m (7.3m) of 1.99%Sn
75 SEVERN	1889.5	1181.4	181.2	281.2	-60.5	29.07.81	24.08.81	287.5	5424.31	3330	258.4-258.7m: Massive pyrite. No other significant sulphide mineralisation noted.	-45	Weak min. < 0.1% Sn.
76 MONTANA	2138.8	1313.9	178.8	298.0	-68.8	31.07.81	27.08.81	385.5	5809.81	3640	No significant sulphide mineralisation noted.		
77 SEVERN	1831.2	1238.1	179.7	289.7	-62.8	27.08.81	29.10.81	361.0	6170.81	3330	331.8 - 339.5m : Pyrite 5-10% as disseminations & veinlets.	-120	
78 MONTANA	2050.3	1321.7	179.3	285.4	-57.4	01.09.81	01.10.81	377.4	6548.21	3540	332.15-349.85m: Zone of massive pyrite-pyrrhotite vein mineralisation in quartz-siderite rock.	-108 -123	332.15-349.85m: 17.7m of 1.41%Sn
79 GOLF COURSE	1191.5	901.3	189.3	312.3	-59.8	06.10.81	17.10.81	169.5	6717.71	2630	104.5-111.7m: Sideritic lode with trace py.	95	

Date	20th October, 1981	Ref	
To	C.H. Young	From	J.R. Sise
At	Hawthorn East	At	Burnie
Copies to	E.H. Skey, S. Richardson	Keep	

Subject, SEVERN-MONTANA-GOLF COURSE DRILLING REPORT
FOR PERIOD 11, ENDING OCTOBER 19, 1981

Please find attached the summary sheets, summary longitudinal projection and plan for Golf Course-Severn-Montana.

DDH G75 (1) Severn

Assay results from this drill hole indicate that the interval from 250.0 to 260.0 is barren.

DDH G76 (2) Montana

The sideritic intervals, (335.0 to 338.0 m and 359.0 to 360.0 m) assayed in this drill hole are barren of tin mineralisation.

DDH G77 (3) Severn

Exploration drill hole G77 on section 3330 was commenced on August 27, and is in progress at 300 metres in tuffaceous greywackes and black shales of the Crimson Creek Formation. Progress has been very slow due to badly faulted ground. Trace sulphide mineralisation between 143.0 and 147.0 metres was assayed and proved to be barren.

DDH G78 (4) Montana

Exploration drill hole G78 on section 3540 was completed on October 1, 1981 at a depth of 377.4 metres. A summary log is as follows:
0-332.15 m: Crimson Creek Formation (shales and tuffaceous greywackes);
332.15-349.85: Pyrite-pyrrhotite vein mineralisation in quartz-siderite rock;
349.85-352.1 m: Cavernous sideritic rock;
352.1-377.4 m: Shale with minor dolomitic siltstone.

Assay results for the interval 332.15 to 349.85 have been received from CTNL. A 17.7 metre intersection of 1.41% Sn is reported. This intersection correlates with the 8.0 m (192.3-200.3 m) of 3.34% Sn recorded in drill hole G67 at Montana.

DDH G79 (6) Golf Course

Exploration drill hole G79 on section 2630 was commenced on October 6 and completed on October 17 at a depth of 169.5 metres. A summary log of this drill hole, which was designed to test the potential of the Golf Course lode, is as follows: 0.88.4 m: Crimson Creek Formation; 88.4-90.0 m: recrystallised carbonate; 90.0-99.0 m: Shale; 99.0 -104.5 m: Silty sandstone 'marker' bed; 104.5-111.7 m: Sideritic lode with trace pyrite; 111.7-135.5 m: Shales (Precambrian?); 135.5-169.5 m: Oonah Quartzite and Slate Formation.

The sideritic lode will be split for assay.

The stratigraphy encountered in this drill hole bears a close resemblance to that in some of the Montana drill holes. Work on a possible correlation between the two areas and the structural implications is in progress.

UTEM Anomaly

The 'deep' UTEM anomaly at 359600E, 1550N on the Queen Hill grid was surveyed with the Max-Min II system. The results were consistent with the hypothesis that a deep conductor may be present. Prior to drilling a one loop UTEM survey will be conducted to refine the anomaly.

Consolidated Lease 36M/81 (564 ha) has been granted at Queen Hill to replace the seven previous leases. The lease will be for a term of 21 years commencing August 1, 1981

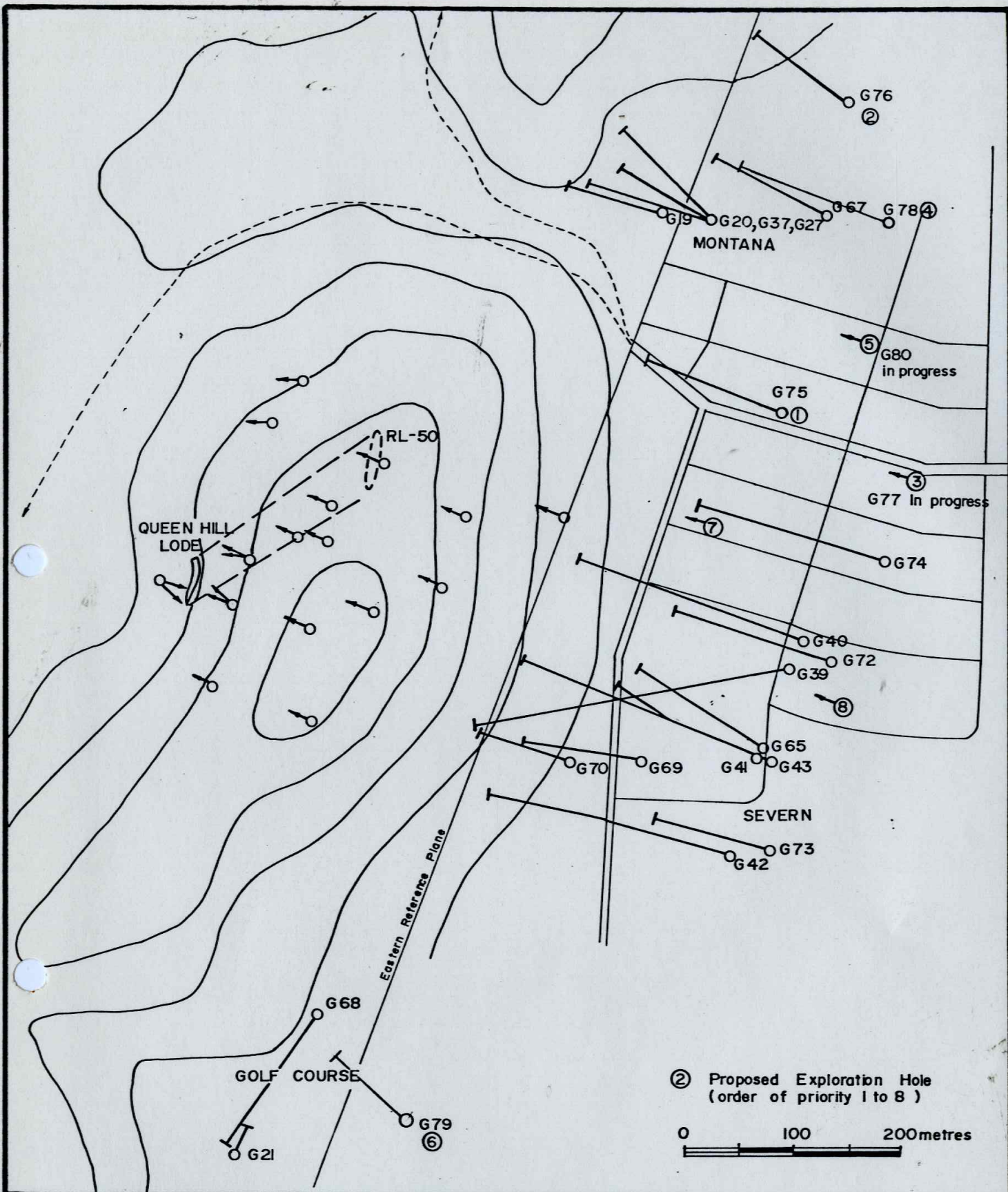
DRILLING SUMMARY FOR PERIOD 11

One drill hole was collared.

Metres drilled:	G77	264.0 - 300.0	
	G78	277.0 - 377.4	
	G79	0 - <u>169.5</u>	
			<u>305.9</u> metres

Regards,

J.R. Sise.

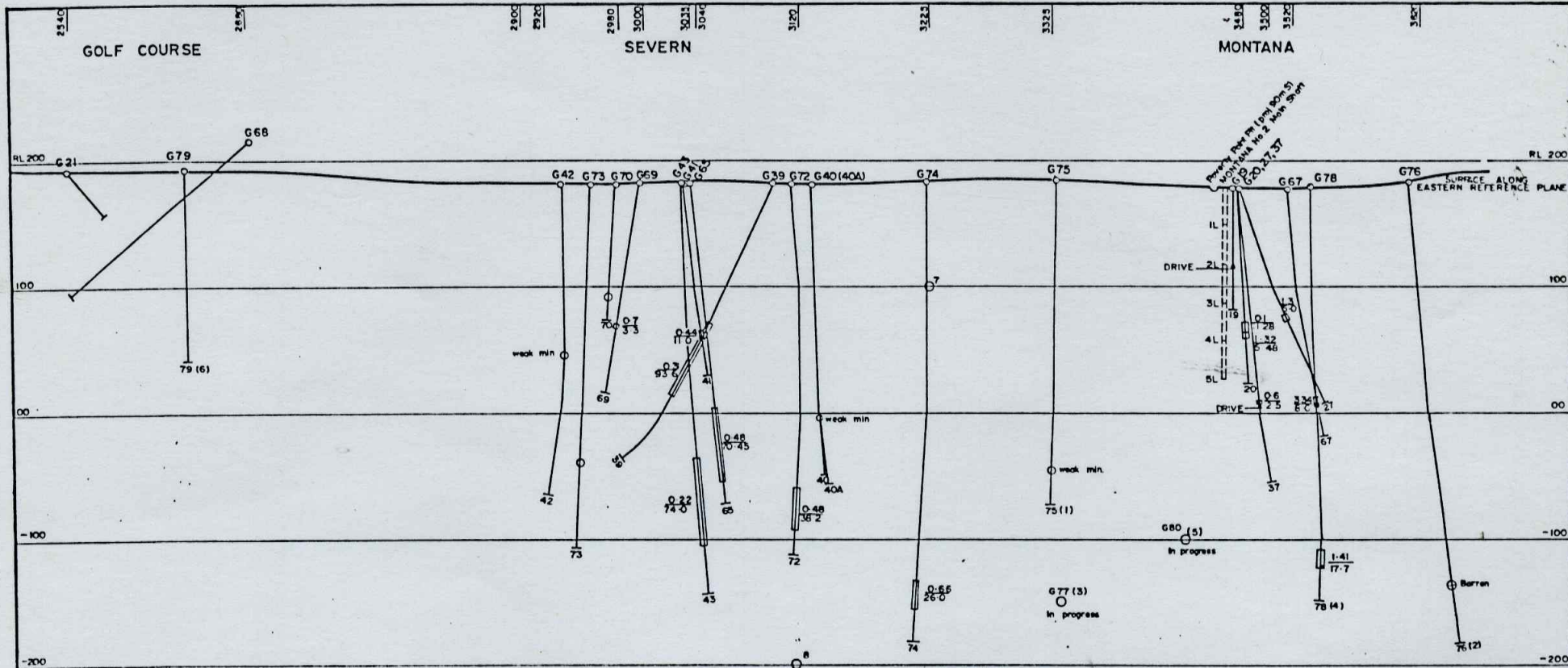


Aberfoyle Exploration Pty Ltd

Geology:	
Drawn:	
Traced: J. L. R.	
Checked:	
Revised by: Date:	

NORTH WEST TASMANIA
SUMMARY PLAN
 SEVERN - MONTANA - GOLF COURSE AREAS
1981 - 82 DRILL PROGRAMME

Location code:	
Date: August, 1981	
Scale: As shown	
Plate No	QH 172



LEGEND

- Casserite - Sulphide mineralization
- Proposed Exploration Hole

A Aberfoyle Exploration Pty Ltd

Geology:
 Drawn: R.J.E.
 Traced: J.L.R.
 Checked:
 Revised by: Date:

NORTH WEST TASMANIA
SEVERN - MONTANA
 SUMMARY LONGITUDINAL PROJECTION
 1980-81 DRILL PROGRAMME

Location code:
 Date: August, 1981
 Scale: 1:2,500
 Plate No: OH 166

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	21.10.80	186.7	2615.6	GCL	No significant sulphide mineralisation noted.		
GOLF COURSE LODGE													
69	1588.8	1022.7	183.5	270.9	-53.5	23.10.80	6.11.80	208.5	2824.1	2970	89.5-102.5 Pyrite/pyrrhotite veins, 3-5% with quartz veining.	105	Weak min. <0.1%Sn
SEVERN													
												70	131.0-141.0(10.0)m of 0.27%Sn. Inc.
												47	137.0-141.0(4.0m) of 0.7%Sn.
													164.8-170.8m pyrite 5% locally 70% as veins.
70	1594.6	959.0	185.6	294.0	-48.0	10.11.80	17.11.80	151.2	2975.3	2970	No significant sulphide mineralisation noted.		
SEVERN													
72	1649.5	1205.1	180.6	284.3	-63.1	16.1.81	9.3.81	340.5	3674.0	3125	275.3-282.5m: 1-3% pyrite veins. 282.5-300.3m: zone of pyrrhotite 10-15%, pyrite 1-5% veining. 300.3-313.5m: pyrrhotite/pyrite stringer veins, 1-5% Fault at 310.5m.	-60 -70 -77 -93.5	275.3-313.5(38.2)m of 0.48%Sn Inc. 282.5-294.5m(12.0)m of 1.37%Sn..
SEVERN													
73	1492.3	1139.6	180.4	281.4	-64.5	12.3.81	4.4.81	310.5	3984.5	2940	170.0-198.0m: Pyrite 1-2% locally 85% as veins 223.0-227.8m: Pyrite 2-3% locally 35% as fine diss. & veinlets.	24 -1.5 -27	170.0-198.0m(28)m 0.15%Sn, Inc.171-173m(2m) of 1.29% Sn. 223.0-227.8m: Weak min. <0.1%Sn.
SEVERN													

SEVERN/MONTANA/GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	
	North	East										Intersection	Intersection
41 SEVERN	1575	1145.5	181	282°	-30°	7.2.77	22.3.77	292.5	6907.05	3040	230.0-241.0m: zone of Py veinlets, locally to 60%	59.5 53.5	230.0-241.0(11.0m) of 0.44%Sn. Inc. 230.0-236.0m(6.0m) of 0.69%Sn.
42 SEVERN	1486.5	1100	181	282°	-45°	23.3.77	23.5.77	335.3	7242.35	2920	184.0-194.0m: Minor Py as disseminations & veinlets.	55 40	184.0-194.0(10.0m) of 0.09%Sn.
43 SEVERN	1581	1133	181.5	282°	-64°	28.3.77	29.4.77	358.5	7600.85	3040	155.1-159.3m: Py veinlets to 20%. 241.0-315.0m: zone of Py/Po stringer veins.	39 -36 -104	155.1-159.3(4.2m) of 0.36%Sn. 241.0-315.0(74.0m) of 0.22%Sn. Inc. 270.0-274.0m(4.0m) of 0.89%Sn.
65 SEVERN	1581.5	1138	182	239.1	-60.1	5.8.80	3.9.80	292.5	1861.4	3035	150.5-178.5m: zone of pyrite/pyrrhotite stringer veins. 202.05-272.5m: zone of pyrite/pyrrhotite stringer veins include 222.5-222.8m quartz-cassiterite vein and 257.5-262.1m, 40-70% pyrrhotite/pyrite vein.	50 25 05 -55	150.5-178.5 (28.0m) 0.27%Sn. 202.05-272.5m (70.45m) 0.48%Sn. Inc. 222.5-222.8m (0.3m) at 20.3%Sn and 248.95-264.5m (15.55m) of 1.13% Sn. NB: the 0.3m of 20.3%Sn was cut to 5%Sn for the overall grade estimation.
67 MONTANA	2073.7	1219.4	181.2	289.3	-64.3	8.9.80	30.9.80	223.5	2428.9	3520	192.3-200.3m vein pyrite 60-80%. siderite, quartz gangue.	12 05	192.3-200.3m (8.0m) 3.34%Sn.

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	
	North	East										Intersection	Intersection
19 MONTANA	2089	1073	177	282°	-50°	8.4.72	28.4.72	131.06	2206.10	3480	105.46-109.73: Py(10-15), Gn(1-2), tr Stn as veins. 115.82-121.01: Py,Gn,Sid, q as veins. 118.0-119.5; fault zone or stope.	98	105.46-109.73(4.27) m of 0.37% Sn.
												90	115.82-121.01(5.19) m of 0.2% Sn.
20 MONTANA	2073.5	1116	176	282°	-52°	29.4.72	13.5.72	189.59	2395.69	3480	131.37-142.65: Weak Py as disseminations & veinlets. 142.65-148.13: Py, Sid, q vein lode.	72	131.37-142.65(11.28) m of 0.1% Sn.
												63.5	142.65-148.13(5.48) m of 1.33% Sn.
21 GOLF COURSE LODE	1253	641	190	4°	-50°	15.5.72	22.5.72	48.16	2443.85	GCL	No significant sulphide mineralisation noted.		
27 MONTANA	2075	1116	175.6	313°	-60°	20.11.72	26.11.72	199.9	3682.25	3500	114.6-119.6m: Py(20-30), Gn(15-20), Sph(10) vein lode	75	114.6-119.6(5.0)m of 1.31% Sn.
37 37 W MONTANA	2075	1115	176	291°	-68°	17.9.75	2.10.75	243.9	5775.95	3480	176.10-178.60m: Py(30), Sph(10), Sid(40), q(20) as vein lode	10	176.10-178.60(2.5) m of 0.6% Sn.
						Wedge from 215.4	227.1	5787.65					
39 SEVERN	1640	1173	181	258°	-41°	11.2.76	15.3.76	364.2	6217.35	3040	136.90-144.60m: Py (10-60) as veins 170.0-263.6m: Py/Po stringer veins, locally to 60% in vein lode	88	136.90-144.60(7.7) m of 0.28% Sn.
												70	170.0-263.6(93.6m) of 0.31%Sn. Inc.
												14.5	221.6-227.25m(5.65) m of 1.95%Sn.
40 40 A SEVERN	1670	1177	180		-43°	26.1.77	18.3.77	310.5	6527.85	3120	No significant sulphide mineralisation noted.		
Wedge from 238.0	324.7	6614.55											

Date	22nd September, 1981	Ref	
To	C.H. Young	From	J.R. Sise
At	Hawthorn East	At	Burnie
Copies to	E.H. Skey, S. Richardson	Keep	

Subject SEVERN-MONTANA DRILLING REPORT FOR WEEKS ENDING
11.9.81, 18.9.81 AND PERIOD 10 ENDING 21.9.81

Please find attached the summary sheets, summary longitudinal projection and plan for Golf Course - Severn - Montana.

DDH G77 (3) Severn

Exploration drill hole G77 on section 3330 was commenced on August 27, and is currently in progress at 264 metres in tuffaceous greywackes, black shales and minor basic lavas of the Crimson Creek Formation. This hole has been positioned to intersect the favourable Cambrian-Precambrian contact zone at R.L.-150, being 100 metres beneath the weak mineralisation in G75.

Trace sulphide mineralisation between 143.0 and 147.0 metres has been split and submitted for assay.

DDH G78 (4) Montana

Exploration drill hole G78 on section 3540 was commenced on September 1, and is currently in progress at 277.0 metres, in tuffaceous greywackes and fine grained grey mudstones of the Crimson Creek Formation. This hole is designed to test for possible extensions to mineralisation intersected in Montana drill hole G67. The target area is at R.L.-100, approximately 100 metres beneath G67, where the interval 192.3-200.3 m returned 8 metres at 3.34% Sn.

Assay Information

Hole G74 Severn

Assay results are now to hand for the interval 371.0 to 398.0 metres (end of hole). Due to the change in the stratigraphy and the tenure of the mineralisation there is no addition to the previously reported intersection (245.0-271.0 m) 26 metres of 0.66% Sn.

Below 271.0 metres the mineralisation is patchy and generally less than 0.1% Sn. A single metre interval (378.0-379.0) returned 0.93% Sn.

Check assaying to resolve discrepancies in results from different analytical laboratories is being actively pursued. Comparative results will be tabulated once sufficient information has been received.

Holes G75 and G76

The interval from 250.0 to 260.0 metres in G75 and the intervals 335.0 to 338.0 m and 359.0 to 360.0 m in G76 have been split and submitted for assay.

Trenching

Trenching across the Cambrian-Precambrian contact zone on three critical sections at Severn - Queen Hill has been completed. Due to the steep nature of the ground a bulldozer rather than a back-hoe was required. Once the surface clay and rubble has been removed by the rain mapping and sampling will commence.

New Mt. Zeehan

Results from two sampling traverses using a bombardier-mounted power auger over the New Mt. Zeehan Mine area have been received. Values to 300 ppm Sn were recorded and indicate that future work is warranted in this area of the lease.

Ore Characterisation

In anticipation of more time being allocated to Severn metallurgy at C.M.S., the mineralised intersection in G74 (245-271 m) has been quartered ready for despatch.

DRILLING SUMMARY FOR PERIOD 10

Two drill holes were collared.

Metres drilled:	G76	313.5 - 385.5	
	G77	0 - 264.0	
	G78	0 - 277.0	
			<u>613.0 metres</u>

PROPOSED DRILLING PROGRAMME

I should like to change the order of drill hole priority and commence proposed exploration hole No.8 at the next opportunity. Both rigs will probably finish their respective holes (G77, G78) this weekend. With two rigs in operation, I believe one should continue on the peripheral zones while the other tests the Severn zone at R.L.-200. Unless No.8 is commenced next it will have no chance of achieving a result by the budget meeting. The Severn zone is completely open at depth between sections 3035 and 3225 and it would be both geologically informative and an enormous boost to the project should it be demonstrated that mineralisation persists at depth.

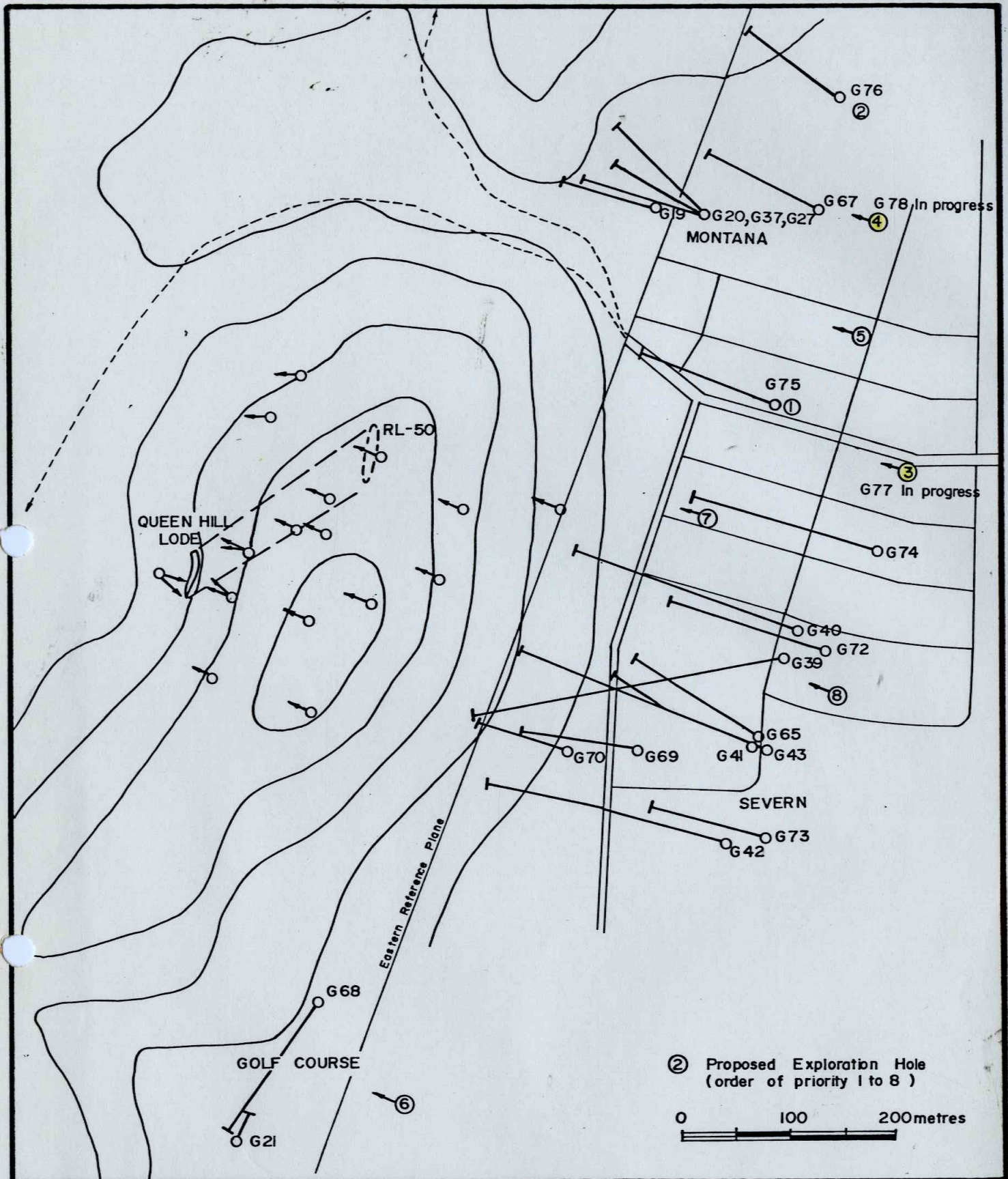
Regards,



J.R. Sise.

SEVERN/MONTANA/GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
74 SEVERN	1742.5	1252.1	179.8	281.0	-62.6	7.4.81	21.7.81	398.0	4382.5	3225	345.3-363.7m: Pyrite and trace pyrrhotite as stringer veins. 363.7-370.8m: Zone of massive pyrite veins with minor cassiterite.	-133 -150 -155	345.0-371.0m(26m) of 0.66%Sn, Inc. 363-371m(8m) of 1.82%Sn.
75 SEVERN	1889.5	1181.4	181.2	281.2	-60.5	29.07.81	24.08.81	287.5	4670.0	3330	258.4-258.7m: Massive pyrite. No other significant sulphide mineralisation noted.	-45	
76 MONTANA	2138.8	1313.9	178.8	298.0	-68.8	31.07.81	27.08.81	385.5	5055.5	3640	No significant sulphide mineralisation noted.		
77 SEVERN	1831.2	1238.1	179.7	289.7	-62.8	27.08.81	In progress	264.0		3330			
78 MONTANA	2050.3	1321.7	179.3	285.4	-57.4	01.09.81	In progress	277.0		3540			



Aberfoyle Exploration Pty Ltd

Geology:
Drawn:
Traced: J.L.R.
Checked:
Revised by: Date:

NORTH WEST TASMANIA
SUMMARY PLAN
 SEVERN - MONTANA - GOLF COURSE AREAS
1981 - 82 DRILL PROGRAMME

Location code:
Date: August, 1981
Scale: As shown
Plate No QH 172

2680

2900

3000

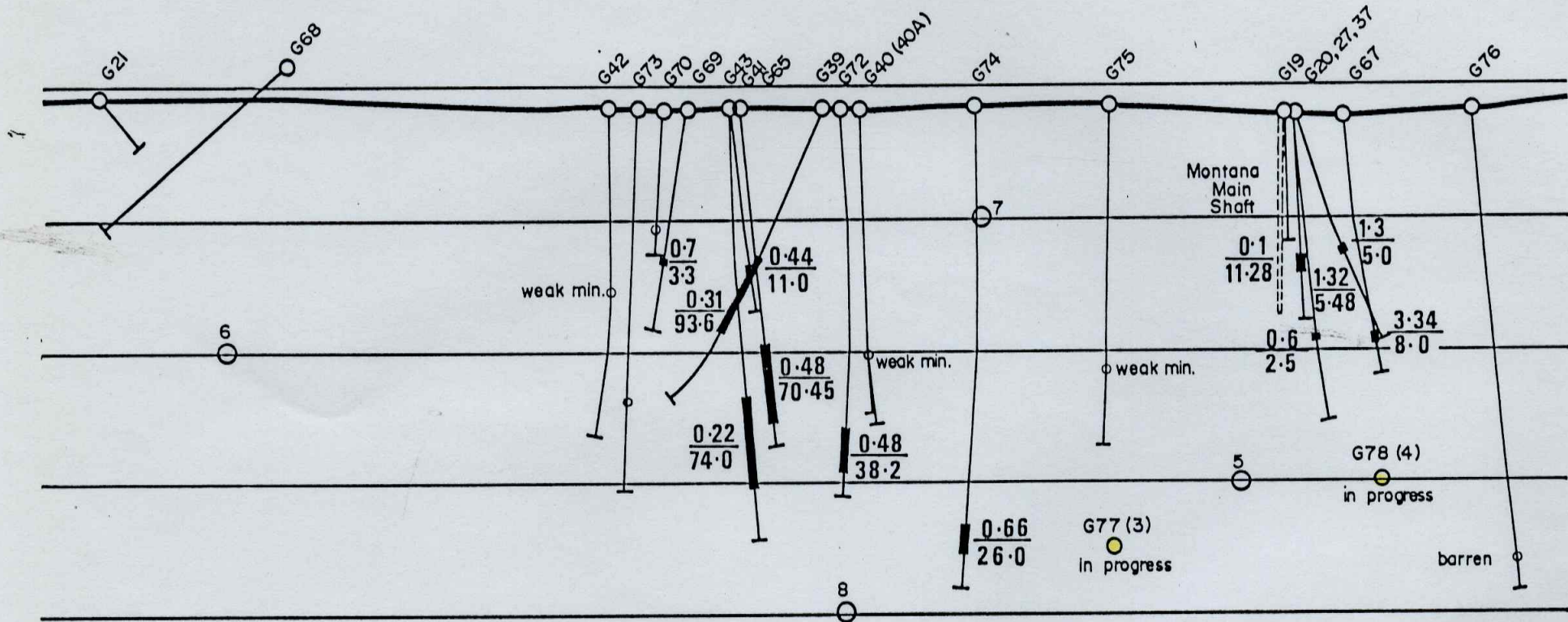
3225

3500

GOLF COURSE

SEVERN

MONTANA

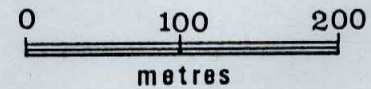


% Sn / metres

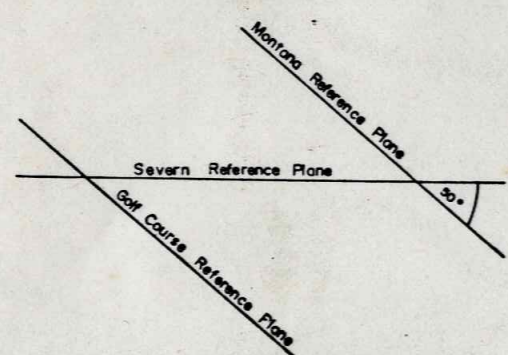
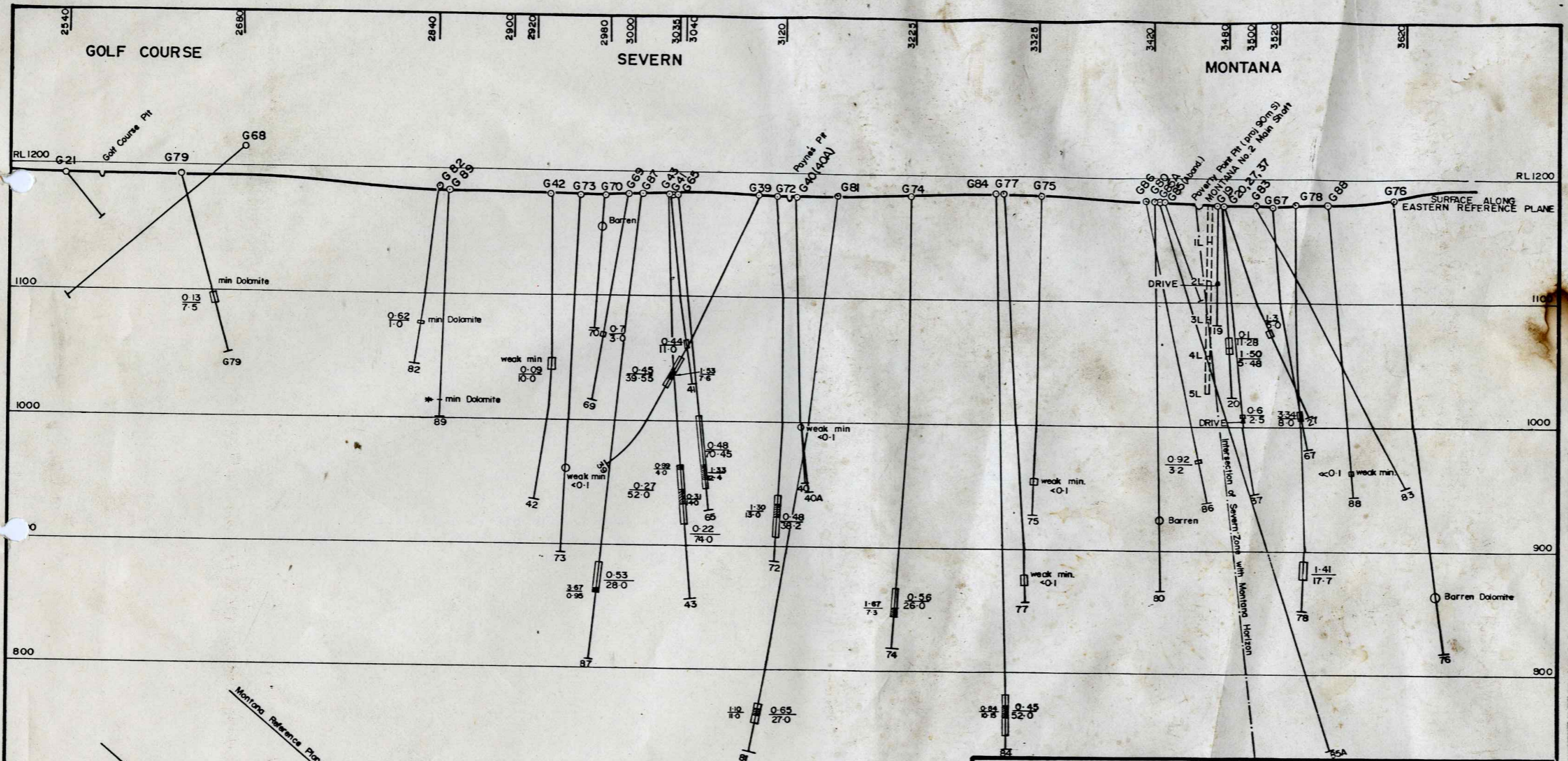
8
○

Cassiterite - Sulphide mineralisation

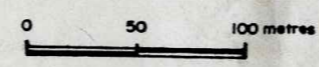
Proposed Exploration Hole



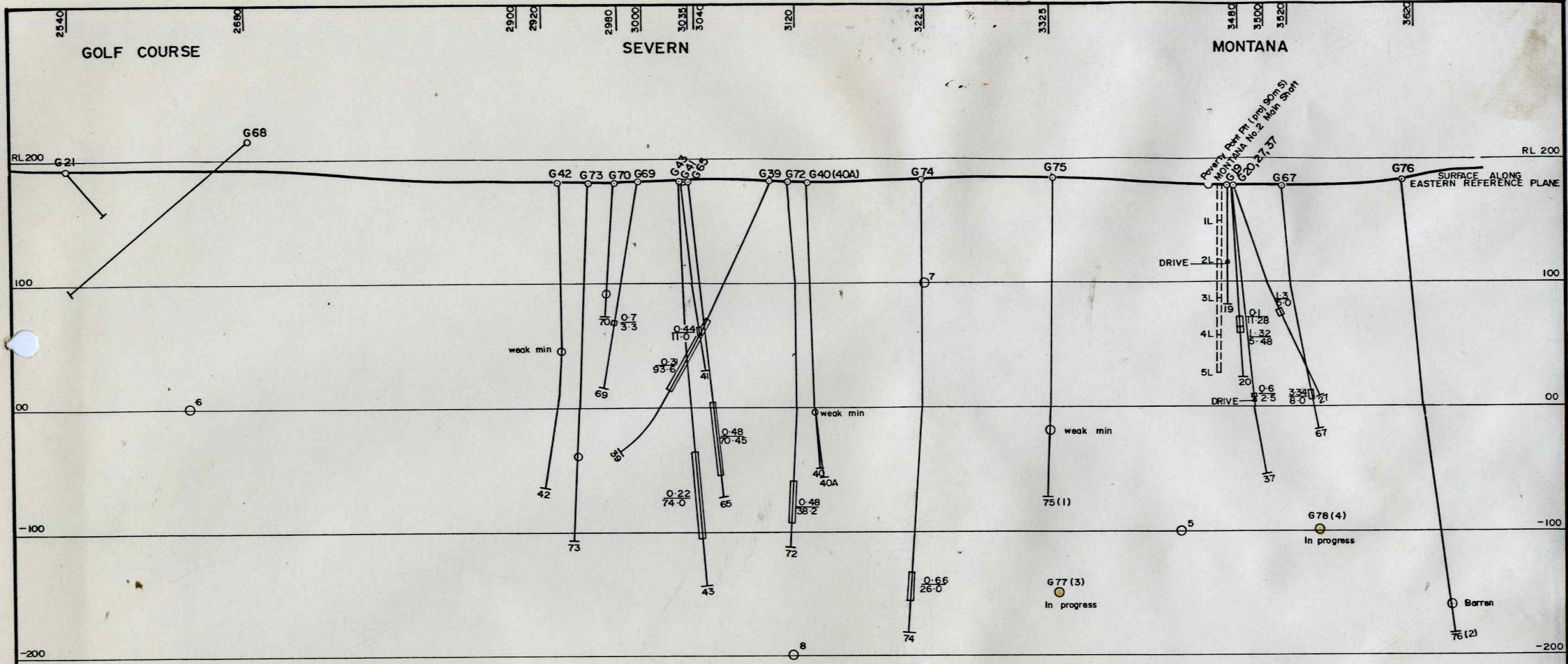
SUMMARY LONGITUDINAL PROJECTION



- LEGEND -
 All Cassiterite - Sulphide mineralisation
 Proposed Exploration Hole - Definite
 Denotes Assays to come
 High Grade (Severn only)
 Low Grade



Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA	Location code:
Drawn: R.J.E	SEVERN - MONTANA	Date: August, 1991
Traced: J.L.R.	SUMMARY LONGITUDINAL PROJECTION	Scale: 1:2,500
Checked:	1981 - 82 DRILL PROGRAMME	Plate No
Revised by: Date:		QH 166



0 50 100metres Week Ending

Aberfoyle Exploration Pty Ltd

LEGEND
 [Shaded Box] Cassiterite - Sulphide mineralisation
 [Circle] Proposed Exploration Hole

Geology:
 Drawn: R.J.E.
 Traced: J.L.R.
 Checked:
 Revised by: Date:

NORTH WEST TASMANIA
SEVERN - MONTANA
 SUMMARY LONGITUDINAL PROJECTION
 1980-81 DRILL PROGRAMME

Location code:
 Date: August, 1981
 Scale: 1:2,500
 Plate #
 QH 166

Date	4th September, 1981	Ref	
To	C.H. Young	From	J.R. Sise
At	Hawthorn East	At	Burnie
Copies to	E.H. Skey, S. Richardson	Keep	Drilling Reports

Subject SEVERN-MONTANA DRILLING REPORT FOR WEEKS ENDING 28.8.81 AND 4.9.81

Please find attached the summary sheets, summary longitudinal projection and plan for Golf Course - Severn - Montana.

In the recently approved work proposal for Severn-Montana, the proposed exploration drill holes were numbered 1-8, indicating an order of priority. To avoid further confusion this sequence will be followed on future summary longitudinal projections and plans. Where a drill hole has been completed (i.e. G75) it will still be allocated its original priority number. Therefore the first hole since the work proposal is shown as G75 (1), followed by G76 (2), G77 (3), G78 (4).

DDH G76 (2) Montana

Exploration drill hole G76 was commenced on July 31, and completed on August 27 at a depth of 385.5 metres. Detailed logging and correlation with G67 has resulted in the following changes to the summary log quoted in the last drilling report.

- 0 - 307.5 m: Tuffaceous greywackes and shales of the Crimson Creek Formation
- 307.5 - 362.8 m: Light grey to cream brecciated dolomite, locally cavernous with siliceous interfragmental material. Locally weakly sideritic and silicified. Assigned to Crimson Creek Formation.
- 362.8 - 374.7 m: Crimson Creek Formation - finely laminated mudstone, dolomitic shale and shale.
- 374.7 - 385.5 m: Finely interlayered mudstone and shale. Precambrian.

No significant mineralisation was noted. Select intervals of the sideritic and silicified material will be sent for assay.

DDH G77 (3) Severn

Exploration drill hole G77 on section 3330 was commenced on August 27, and is currently in progress at 80 metres in tuffaceous greywackes and shales of the Crimson Creek Formation. This hole has been positioned to intersect the favourable Cambrian-Precambrian contact zone at R.L.-150, being 100 metres beneath the weak mineralisation in G75.

DDH G78 (4) Montana

Exploration drill hole G78 on section 3540 was commenced on September 1, and is currently in progress at 35 metres in sediments of the Crimson Creek Formation. This hole is designed to test for possible extension to mineralisation intersected in Montana drill hole G67. The target area is at R.L.-100, approximately 100 metres beneath G67, where the interval 192.3 - 200.3 m returned 8 metres at 3.34% Sn.

Assay InformationHole G74 Severn

No further assay data has been received from G74. Results are still to come for the interval 371.0 - 398.0 metres (Analabs have been prompted).

As a check on assay technique and sample homogeneity the mineralised intersection from G74, 345.0 - 371.0 m, was sent to Cleveland for assay. The original pulverised core residues were first thoroughly mixed and re-split prior to despatch. The following information was obtained:

345.0 - 371.0 : 26.0 m of 0.66% Sn, includes 363.0 - 371.0 m,
8 m of 1.82% Sn (Analabs Data)

26.0 m of 0.56% Sn, includes 8 m of 1.51% Sn
(Cleveland Lab.)

G71 Queen Hill

The following new assay data is to hand:

180.30 to 182.5 m : 2.2 m of 0.39% Sn

Drilling Summary 24.8.81 to 4.9.81

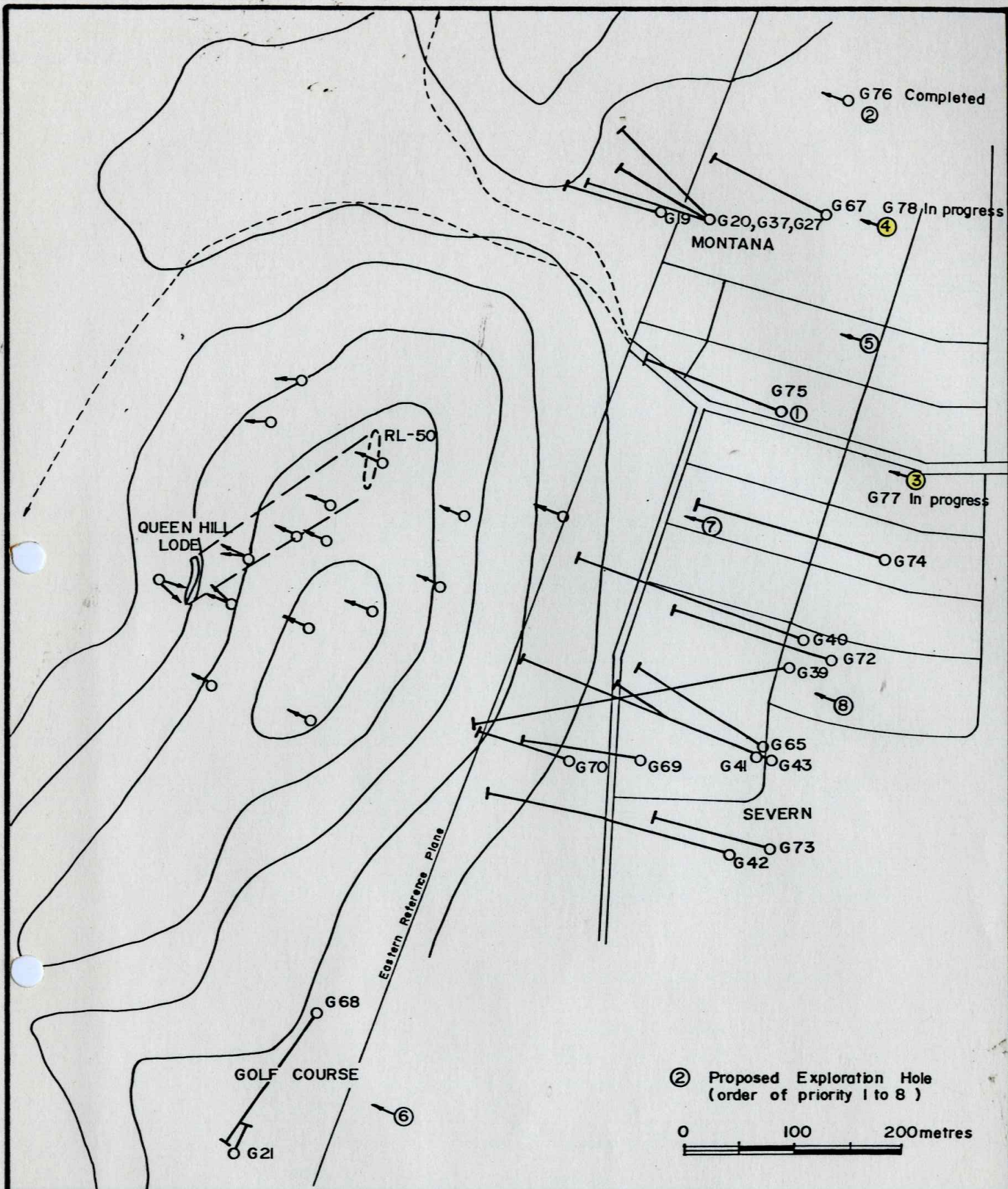
Two drill holes were collared.

Metres drilled:	G76	313.5	-	385.5	
	G77	0	-	80.0	
	G78	0	-	<u>35.0</u>	
				<u>187.0</u>	metres

Regards,



J.R. Sise.



Aberfoyle Exploration Pty Ltd

Geology:	
Drawn:	
Traced: J.L.R.	
Checked:	
Revised by: Date:	

NORTH WEST TASMANIA
SUMMARY PLAN
 SEVERN - MONTANA - GOLF COURSE AREAS
1981 - 82 DRILL PROGRAMME

Location code:	
Date: August, 1981	
Scale: As shown	
Plate No	
QH 172	

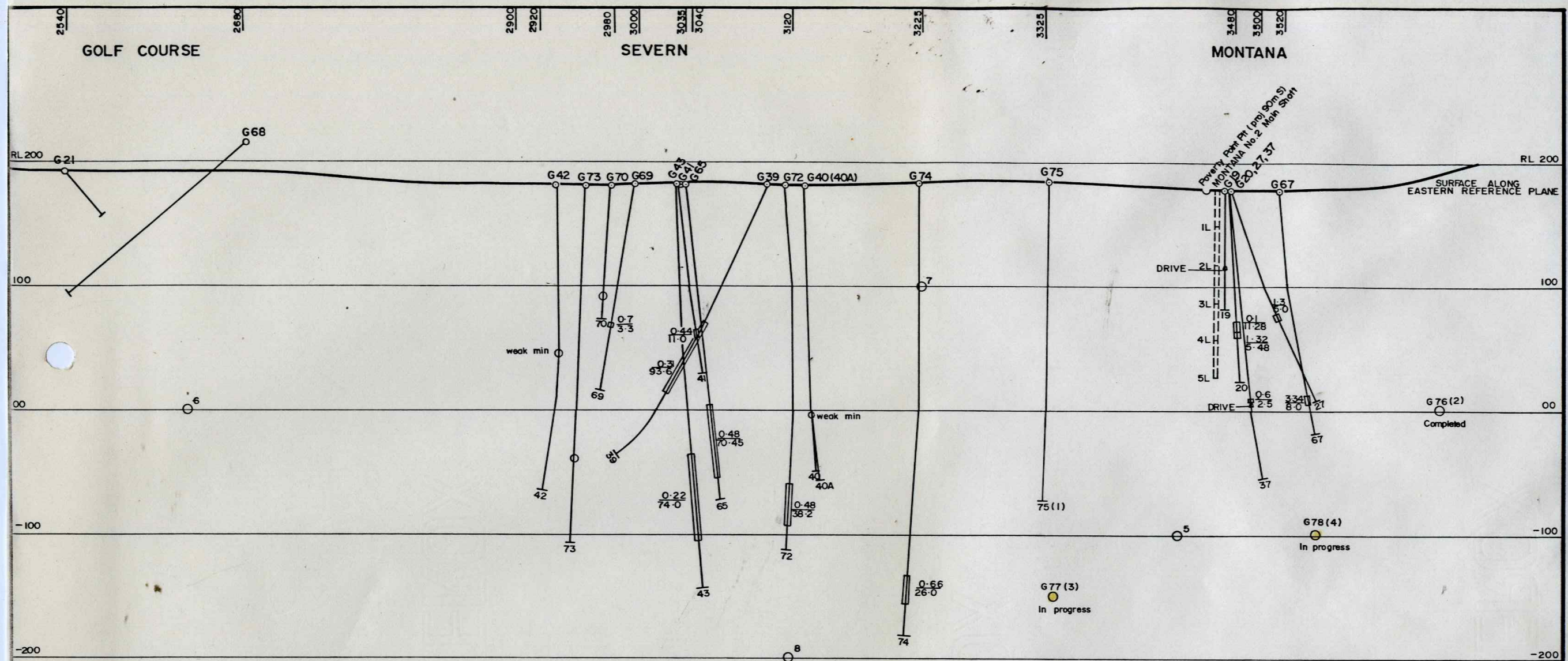
SEVERN / MONTANA / GOLF COURSE – Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	
	North	East											Intersection
74 SEVERN	1742.5	1252.1	179.8	281.0	-62.6	7.4.81	21.7.81	398.0	4382.5	3225	345.3-363.7m: Pyrite and trace pyrrhotite as stringer veins. 363.7-370.8m: Zone of massive pyrite veins with minor cassiterite.	-133 -150 -155	345.0-371.0m(26m) of 0.66%Sn, Inc. 363-371m(8m) of 1.82%Sn.
75 SEVERN	1889.5	1181.4	181.2	281.2	-60.5	29.07.81	24.08.81	287.5	4670.0	3330	258.4-258.7m: Massive pyrite. No other significant sulphide mineralisation noted.	-45	
76 MONTANA	2138.8	1313.9	178.8	298.0	-68.8	31.07.81	27.08.81	385.5	5055.5	3640	No significant sulphide mineralisation noted.		
77 SEVERN	1831.2	1238.1	179.7	289.7	-62.8	27.08.81	In progress	80m		3330			
78 MONTANA	2050.3	1321.7	179.3	285.4	-57.4	01.09.81	In progress	35m		3540			



GOLF COURSE

SEVERN

MONTANA



LEGEND

-  Cassiterite - Sulphide mineralisation
-  Proposed Exploration Hole

A Aberfoyle Exploration Pty Ltd

Geology:	NORTH WEST TASMANIA	Location code:
Drawn: R.J.E	SEVERN - MONTANA	Date: August, 1981
Traced: J.L.R.	SUMMARY LONGITUDINAL PROJECTION	Scale: 1:2,500
Checked:	1980-81 DRILL PROGRAMME	Plate No: QH 166
Revised by: Date:		

Date 25th August, 1981

Ref

To C.H. Young

From J.R. Sise

At Hawthorn East

At Burnie

Copies to E.H. Skey, S. Richardson

Keep *Drilling Reports.*

Subject' SEVERN - MONTANA DRILLING REPORT FOR WEEKS ENDING
14.8.81, 21.8.81 and PERIOD 9 ENDING 24.8.81

Please find attached the revised summary sheets and a summary longitudinal projection for Golf Course - Severn - Montana.

DDH G74 Severn

Logging and core sawing for assay has been completed on this drill hole. Pyrite and trace pyrrhotite as disseminations and stringer veins was intersected between 345.3 and 363.7 metres. From 363.7 to 370.8 metres the style of mineralisation changed to a zone of massive pyrite veins with minor amounts of visible cassiterite. The faulted contact between the Crimson Creek Formation and the underlying Oonah Quartzite and Slate Formation occurs at 370.8 metres.

The interval from 323.0 to 398.0 metres (end of hole) has been split and submitted for assay. To date results have been received for the interval 323.0 to 371.0 metres and are as follows:-

345.0-371.0: pyrite and trace pyrrhotite as stringers and massive veins. 26 metres of 0.66% Sn. Included in this intersection is an 8.0 m zone of more massive pyrite veins (363.0-371.0 m) assaying 1.82% Sn.

DDH G75 Severn

Exploration drill hole G75, designed to test the Severn-Montana Zone at R.L.00 (Plate QH 166), was commenced on July 29 and completed on August 24 at a depth of 287.5 metres. Summary geology:

0-255.5 m:	Crimson Creek Formation
255.5 - 258.9 m:	Oonah Quartzite and Slate Formation (Qs)
258.9 - 277.3 m:	Oonah Quartzite
277.3 - 287.5 m:	Qs (as above)
Mineralisation:	258.4 - 258.7 m - massive pyrite

No faulted contact was observed between the Crimson Creek and Oonah Quartzite and Slate Formations.

DDH G76 Montana

Exploration drill hole G76 was commenced on July 31, and is still in progress at 313.5 metres. Summary log to date is:

0-262.3 m:	Crimson Creek Formation
262.3-298.8 m:	Oonah Quartzite and Slate Formation
298.8-307.5 m:	Coarse sandy sediments
307.5-313.5 m:	Brecciated, cavernous dolomite

No significant mineralisation recorded.

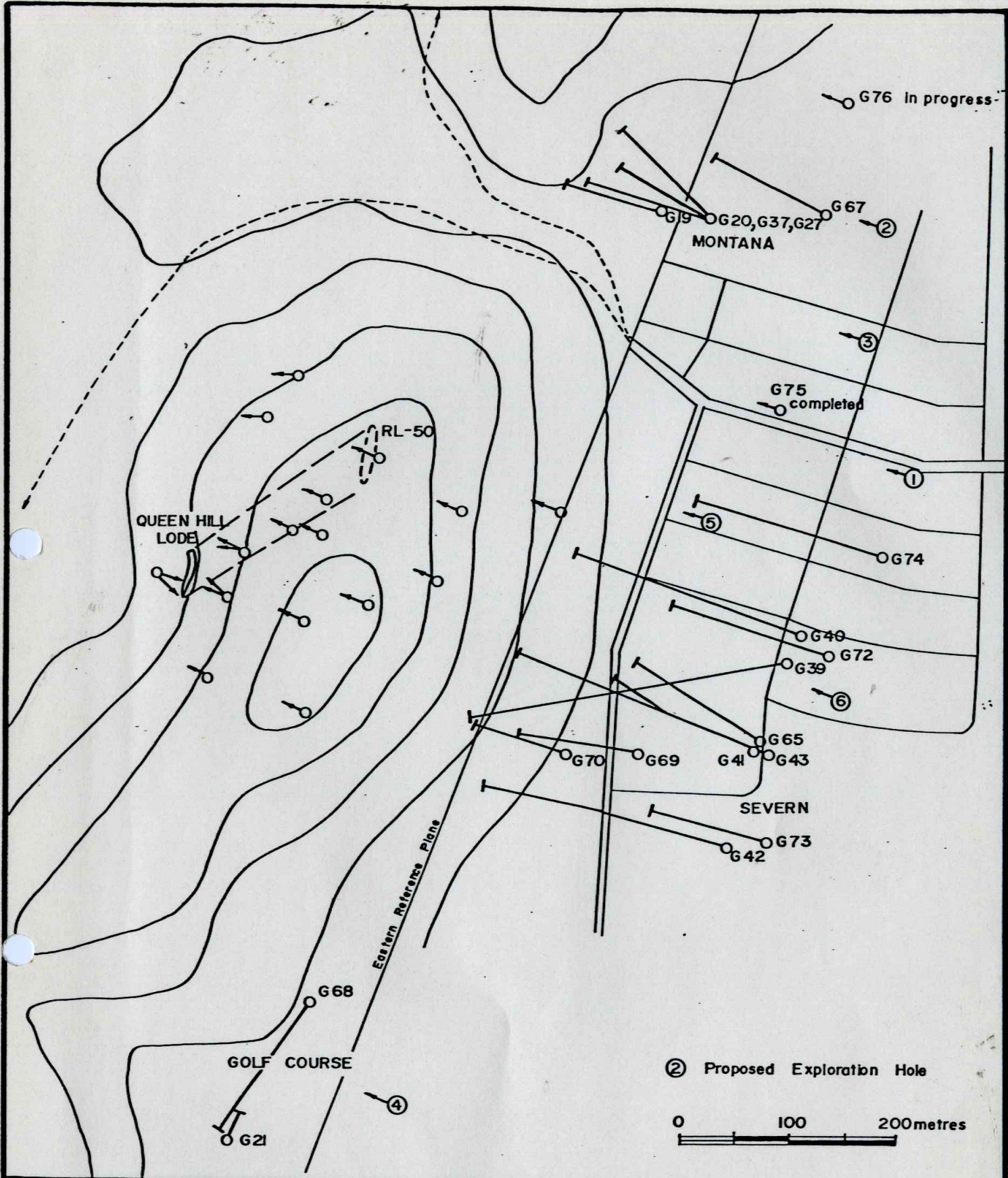
Drilling Summary for Period 9

Two drill holes were collared.

Metres drilled:	G75	0-287.5	
	G76	<u>0-313.5</u>	
		<u>501.0</u>	metres

Regards,

J.R. Sise.



Aberfoyle Exploration Pty Ltd

Geology:
Drawn:
Traced: J.L.R.
Checked:
Revised by: Date:

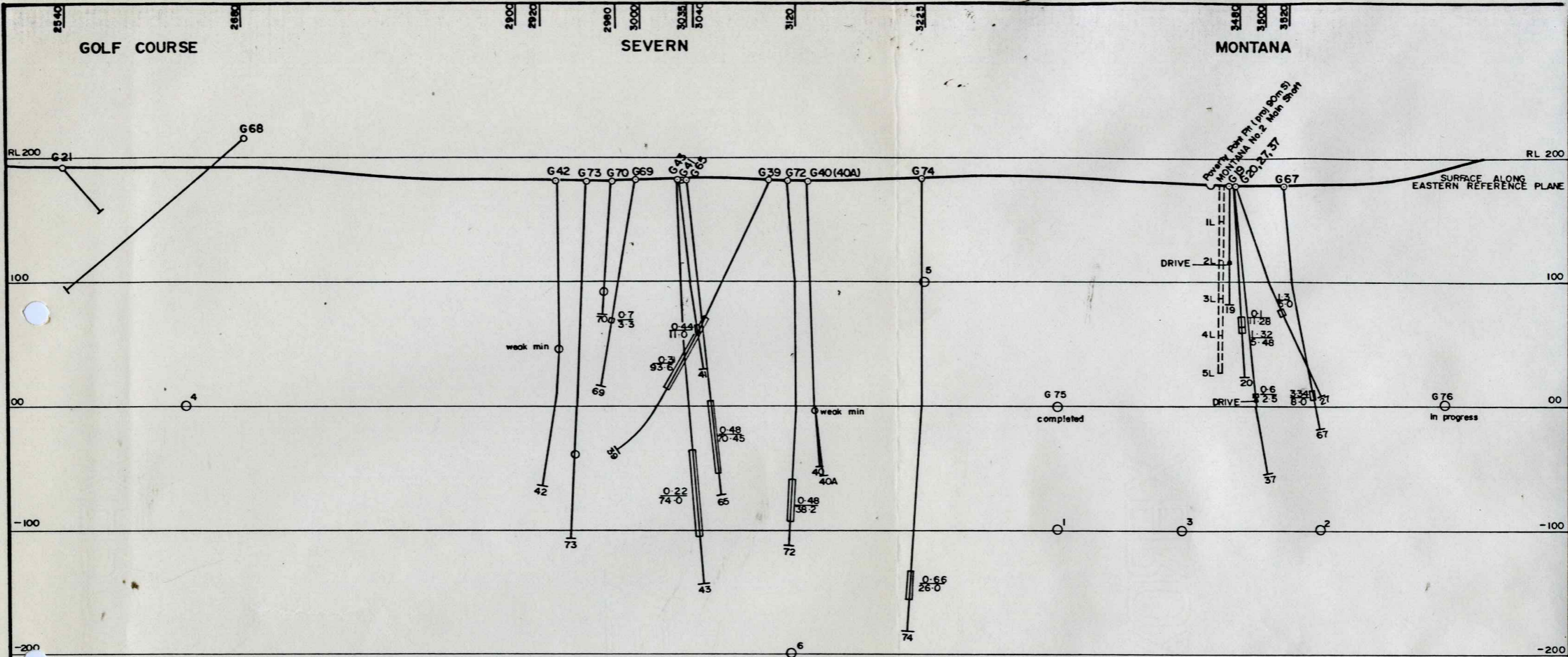
NORTH WEST TASMANIA
SUMMARY PLAN
 SEVERN - MONTANA - GOLF COURSE AREAS
1981 - 82 DRILL PROGRAMME

Location code:
Date: August, 1981
Scale: As shown
Plate N ^o QH 172

GOLF COURSE

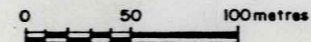
SEVERN

MONTANA



LEGEND

- Cassiterite - Sulphide mineralisation
- Proposed Exploration Hole



Week Ending

A Aberfoyle Exploration Pty Ltd

Geology:	NORTH WEST TASMANIA	Location code:
Drawn: R.J.E	SEVERN - MONTANA	Date: August, 1981
Traced: J.L.R.	SUMMARY LONGITUDINAL PROJECTION	Scale: 1:2,500
Checked:	1980-81 DRILL PROGRAMME	Plate No: QH 166
Revised by: Date:		

SEVERN/MONTANA/GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elev-ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
74 SEVERN	1742.5	1252.1	179.8	281.0	-62.6	7.4.81	21.7.81	398.0	4382.5	3225	345.3-363.7m: Pyrite and trace pyrrhotite as stringer veins. 363.7-370.8m: Zone of massive pyrite veins with minor cassiterite.	-133 -150 -155	345.0-371.0m(26m) of 0.66%Sn, Inc. 363-371m(8m) of 1.82%Sn.
75 SEVERN	1889.5	1181.4	181.2	281.2	-60.5	29.07.81	24.08.81	287.5	4670.0	3330	258.4-258.7m: Massive pyrite. No other significant sulphide mineralisation noted.	-45	
76 MONTANA	2138.8	1313.9	178.8	298.0	-68.8	31.07.81	In progress	313.5		3640			

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of	Intersection
	North	East										Intersection	
68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	21.10.80	186.7	2615.6	GCL	No significant sulphide mineralisation noted.		
GOLF COURSE LODGE													
69	1588.8	1022.7	183.5	270.9	-53.5	23.10.80	6.11.80	208.5	2824.1	2970	89.5-102.5 Pyrite/pyrrhotite veins, 3-5% with quartz veining.	105	Weak min. <0.1% Sn
SEVERN													
												70	131.0-141.0(10.0) m of 0.27% Sn.
												47	164.8-170.8m(6m) of 0.3% Sn.
70	1594.6	959.0	185.6	294.0	-48.0	10.11.80	17.11.80	151.2	2975.3	2970	No significant sulphide mineralisation noted.		
SEVERN													
72	1649.5	1205.1	180.6	284.3	-63.1	16.1.81	9.3.81	340.5	3674.0	3125	275.3-282.5m: 1-3% pyrite veins. 282.5-300.3m: zone of pyrrhotite 10-15%, pyrite 1-5% veining. 300.3-313.5m: pyrrhotite/pyrite stringer veins, 1-5% Fault at 310.5m.	-60 -70 -77 -93.5	275.3-313.5(38.2) m of 0.48% Sn Inc. 286.5-294.5(8.0) m of 1.88% Sn.
SEVERN													
73	1492.3	1139.6	180.4	281.4	-64.5	12.3.81	4.4.81	310.5	3984.5	2940	170.0-198.0m: Pyrite 1-2% locally 85% as veins 223.0-227.8m: Pyrite 2-3% locally 35% as fine diss. & veinlets.	24 -1.5 -27	170.0-198.0m(28)m of 0.15% Sn, Inc. 171-173m(2m) of 1.29% Sn. 223.0-227.8m: Weak min. <0.1% Sn.
SEVERN													

SEVERN/MONTANA/GOLF COURSE—Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of	Intersection
	North	East										Intersection	
19 MONTANA	2089	1073	177	282 ⁰	-50 ⁰	8.4.72	28.4.72	131.06	2206.10	3480	105.46-109.73: Py(10-15), Gn(1-2), tr Stn as veins. 115.82-121.01: Py,Gn,Sid, q as veins. 118.0-119.5: fault zone or stope.	98	105.46-109.73(4.27) m of 0.37% Sn.
												90	115.82-121.01(5.19) m of 0.2% Sn.
20 MONTANA	2073.5	1116	176	282 ⁰	-52 ⁰	29.4.72	13.5.72	189.59	2395.69	3480	131.37-142.65: Weak Py as disseminations & veinlets. 142.65-148.13: Py, Sid, q vein lode.	72	131.37-142.65(11.28) m of 0.1% Sn.
												63.5	
21 GOLF COURSE LODE	1253	641	190	4 ⁰	-50 ⁰	15.5.72	22.5.72	48.16	2443.85	GCL	No significant sulphide mineralisation noted.		
27 MONTANA	2075	1116	175.6	313 ⁰	-60 ⁰	20.11.72	26.11.72	199.9	3682.25	3500	114.6-119.6m: Py(20-30), Gn(15-20), Sph(10) vein lode	75	114.6-119.6(5.0)m of 1.31% Sn.
37 37 W MONTANA	2075	1115	176	291 ⁰	-68 ⁰	17.9.75	2.10.75	243.9	5775.95	3480	176.10-178.60m: Py(30), Sph(10), Sid(40), q(20) as vein lode	10	176.10-178.60(2.5) m of 0.6% Sn.
						Wedge from 215.4		227.1	5787.65				
39 SEVERN	1640	1173	181	258 ⁰	-41 ⁰	11.2.76	15.3.76	364.2	6217.35	3040	136.90-144.60m: Py (10-60) as veins 170.0-263.6m: Py/Po stringer veins, locally to 60% in vein lode	88	136.90-144.60(7.7) m of 0.28% Sn.
												70	170.0-263.6(93.6)m of 0.31% Sn.
												14.5	
40 40 A SEVERN	1670	1177	180		-43 ⁰	26.1.77	18.3.77	310.5	6527.85	3120	No significant sulphide mineralisation noted.		
						Wedge from 238.0		324.7	6614.55				

Date 10th August 1981

Ref

To C. H. Young

From J. R. Sise

At Camberwell

At Burnie

Copies to E. H. Skey

Keep

Subject SEVERN - MONTANA DRILLING REPORT FOR WEEKS ENDING 31.7.81 & 7.8.81

Please find attached the revised summary sheets and a summary longitudinal projection for Golf Course - Montana - Severn.

Hole G75 Severn

Exploration drill hole G75, designed to test the Severn - Montana Zone at R.L. 00 (Plate No. QH 166), was commenced on July 29, 1981 and is progressing satisfactorily at 100 metres in shales and tuffaceous greywackes of the Crimson Creek Formation.

Hole G76 Montana

Exploration drill hole G76 was commenced on July 31, 1981 and is currently at 30 metres in the Crimson Creek Formation. This hole was sited to test the Montana Zone at R.L. 00 at a position approximately 100 metres north-east of the massive pyrite mineralisation (8.0m of 3.34% Sn) intersected in Montana drill hole G67.

Hole G74 Severn

Logging and core sawing for assay has been completed on this drill hole. Pyrite and trace pyrrhotite as disseminations and stringer veins was intersected between 345.3 and 364.5 metres. From 364.5 to 370.8 metres the style of mineralisation changed to massive pyrite with minor amounts of visible cassiterite. The faulted contact between the Crimson Creek Formation and the underlying Oonah Quartzite Slate Formation occurs at 370.8 metres.

The interval from 323.0 to 398.5 (end of hole) has been split and submitted for assay. (It should be remembered that the hole was cased off to BQ at 239m) To date results have only been received for the interval 323.0 to 360.0 m. As the results are incomplete it is premature to quote any intervals, however there is an increase in tin content for the interval 345.0 to 360.0 metres up to a peak of 0.38 (over 1 metre) and averaging greater than 0.1%.

Miscellaneous Assay Results

Additional assay results from the following drill holes have been received:

G4 : 60.35 to 69.49 m - no significant results, all <100 p.p.m.

G65 : 272.5 to 283.5 m - no significant results, <0.1 % Sn
G65 : 284.5 to 292.5 m - 8.0 at 0.11% Sn
G68 : 69.3 to 74.3 - 5.0 m at 0.12 % Sn

Drilling Summary 28.7.81 to 7.8.81

Two drill holes were collared.

Metres drilled:	G75	0 - 100
	G76	0 - 30
		<u>130 metres</u>

Regards,

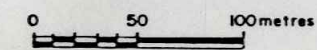
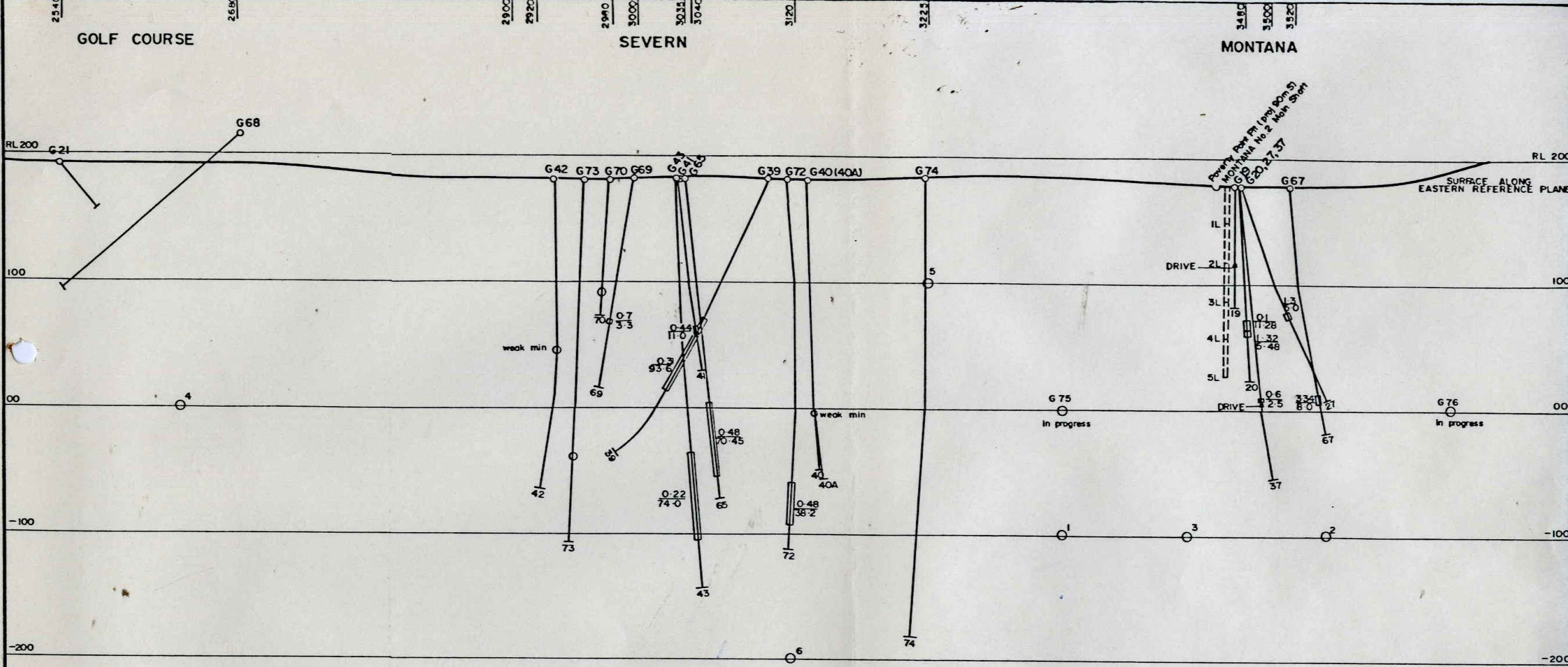


J. R. SISE.

GOLF COURSE

SEVERN

MONTANA



Week Ending

- LEGEND**
- Cassiterite - Sulphide mineralisation
 - Proposed Exploration Hole

Aberfoyle Exploration Pty Ltd	
Geology: Drawn: R.J.E. Traced: J.L.R. Checked: Revised by: Date:	NORTH WEST TASMANIA SEVERN — MONTANA SUMMARY LONGITUDINAL PROJECTION 1980-81 DRILL PROGRAMME
	Location code: Date: August, 1981 Scale: 1:2,500 Plate No: QH 166

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
75 SEVERN	1889.5	1181.4	181.2	281.2	-60.5	29.07.81	In progress	100m		3330			
76 MONTANA	2138.8	1313.9	178.8	298.0	-68.8	31.07.81	In progress	30m		3640			

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	21.10.80	186.7	2615.6	GCL	No significant sulphide mineralisation noted.		
GOLF COURSE LODGE													
69	1588.8	1022.7	183.5	270.9	-53.5	23.10.80	6.11.80	208.5	2824.1	2970	89.5-102.5 Pyrite/pyrrhotite veins, 3-5% with quartz veining.	105	Weak min.<0.1%Sn
SEVERN													
												70	131.0-141.0(10.0) m of 0.27%Sn.
												47	164.8-170.8m pyrite 5% locally 70% as veins.
70	1594.6	959.0	185.6	294.0	-48.0	10.11.80	17.11.80	151.2	2975.3	2970	No significant sulphide mineralisation noted.		
SEVERN													
72	1649.5	1205.1	180.6	284.3	-63.1	16.1.81	9.3.81	340.5	3674.0	3125	275.3-282.5m: 1-3% pyrite veins. 282.5-300.3m: zone of pyrrhotite 10-15%, pyrite 1-5% veining. 300.3-313.5m: pyrrhotite/pyrite stringer veins, 1-5% Fault at 310.5m.	-60 -70 -77 -93.5	275.3-313.5(38.2) m of 0.48%Sn Inc. 286.5-294.5(8.0) m of 1.88% Sn.
SEVERN													
73	1492.3	1139.6	180.4	281.4	-64.5	12.3.81	4.4.81	310.5	3984.5	2940	170.0-198.0m: Pyrite 1-2% locally 85% as veins 223.0-227.8m: Pyrite 2-3% locally 35% as fine diss. & veinlets.	24 -1.5 -27	170.0-198.0m(28)m 0.15%Sn, Inc.171-173m(2m) of 1.29 % Sn. 223.0-227.8m: Weak min.<0.1%Sn.
SEVERN													
74	1742.5	1252.1	179.8	281.0	-62.6	7.4.81	21.7.81	398.5	4383.0	3225	345.3-364.5m: Pyrite and trace pyrrhotite as stringer veins. 364.5-370.8m: Massive pyrite with minor cassiterite.	-133 -150 -155	
SEVERN													

SEVERN / MONTANA / GOLF COURSE - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
19 MONTANA	2089	1073	177	282°	-50°	8.4.72	28.4.72	131.06	2206.10	3480	105.46-109.73: Py(10-15), Gn(1-2), tr Stn as veins.	98	105.46-109.73(4.27) m of 0.37% Sn.
											115.82-121.01: Py, Gn, Sid, q as veins. 118.0-119.5: fault zone or stope.	90	115.82-121.01(5.19) m of 0.2% Sn.
20 MONTANA	2073.5	1116	176	282°	-52°	29.4.72	13.5.72	189.59	2395.69	3480	131.37-142.65: Weak Py as disseminations & veinlets.	72	131.37-142.65(11.28) m of 0.1% Sn.
											142.65-148.13: Py, Sid, q vein lode.	59	142.65-148.13(5.48) m of 1.33% Sn.
21 GOLF COURSE LODE	1253	641	190	4°	-50°	15.5.72	22.5.72	48.16	2443.85	GCL	No significant sulphide mineralisation noted.		
27 MONTANA	2075	1116	175.6	313°	-60°	20.11.72	26.11.72	199.9	3682.25	3500	114.6-119.6m: Py(20-30), Gn(15-20), Sph(10) vein lode	75	114.6-119.6(5.0) m of 1.31% Sn.
37 37 W MONTANA	2075	1115	176	291°	-68°	17.9.75	2.10.75	243.9	5775.95	3480	176.10-178.60m: Py(30), Sph(10), Sid(40), q(20) as vein lode	10	176.10-178.60(2.5) m of 0.6% Sn.
						Wedge from 215.4		227.1	5787.65				
39 SEVERN	1640	1173	181	258°	-41°	11.2.76	15.3.76	364.2	6217.35	3040	136.90-144.60m: Py (10-60) as veins	88	136.90-144.60(7.7) m of 0.28% Sn.
											170.0-263.6m: Py/Po stringer veins, locally to 60% in vein lode	70	170.0-263.6(93.6) m of 0.31% Sn.
												14.5	
40 40 A SEVERN	1670	1177	180		-43°	26.1.77	18.3.77	310.5	6527.85	3120	No significant sulphide mineralisation noted.		
						Wedge from 238.0		324.7	6614.55				

Date 17th July, 1981

Ref

To C.H. Young

From J.R.Sise

At Camberwell

At Burnie

Copies to E.H. Skey

Keep Weekly Drilling Reports

Subject SEVERN DRILLING REPORT FOR WEEKS ENDING 3.7.81, 10.7.81 & 17.7.81.

Please find attached a summary longitudinal projection and summary plan for Golf Course - Severn - Montana.

Hole G74 Severn

The chronic problems which have beset this drill hole for the past two months have been resolved. The hole is currently in progress at 373 m in interbedded slate and quartzite of the Oonah Formation. At 345.3 m the drilling intersected stringer vein mineralisation of pyrite and very minor pyrrhotite. From 364.5 to 370.8 m the style of mineralisation changed to massive pyrite with visible cassiterite. From 370.8 metres onwards the mineralisation appears to fade as the Oonah Formation is penetrated. Further details will await formal core logging and assays.

Hole G75 Severn

Exploration drill hole G75 (see proposed hole 1, Plate QH 166) was due to commence this week utilising a second rig made available by A.D.D. However the contractors have indicated that urgently needed spare parts and rods are held up on the water-front by industrial disputes. The site is prepared, and a start is expected as soon as the equipment arrives.

Core Sawing and Assay

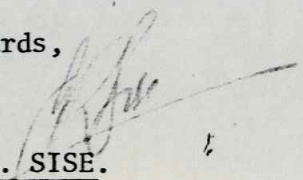
Core sawing and assay of mineralised intervals has continued as part of the ore reserve estimation programme. The following intervals (metres) have been split and assay results are awaited.

G4 : 60.35 to 69.49
G65: 272.50 to 283.50
284.50 to 292.50
G68: 69.30 to 74.30
G71: 177.50 to 182.50

Drilling Summary 30th June to 17th July 1981

Metres drilled : G74 239 - 373
134 Metres

Regards,


J. R. SISE.

N

To Granville Harbour

MONTANA HILL

To Trial Harbour

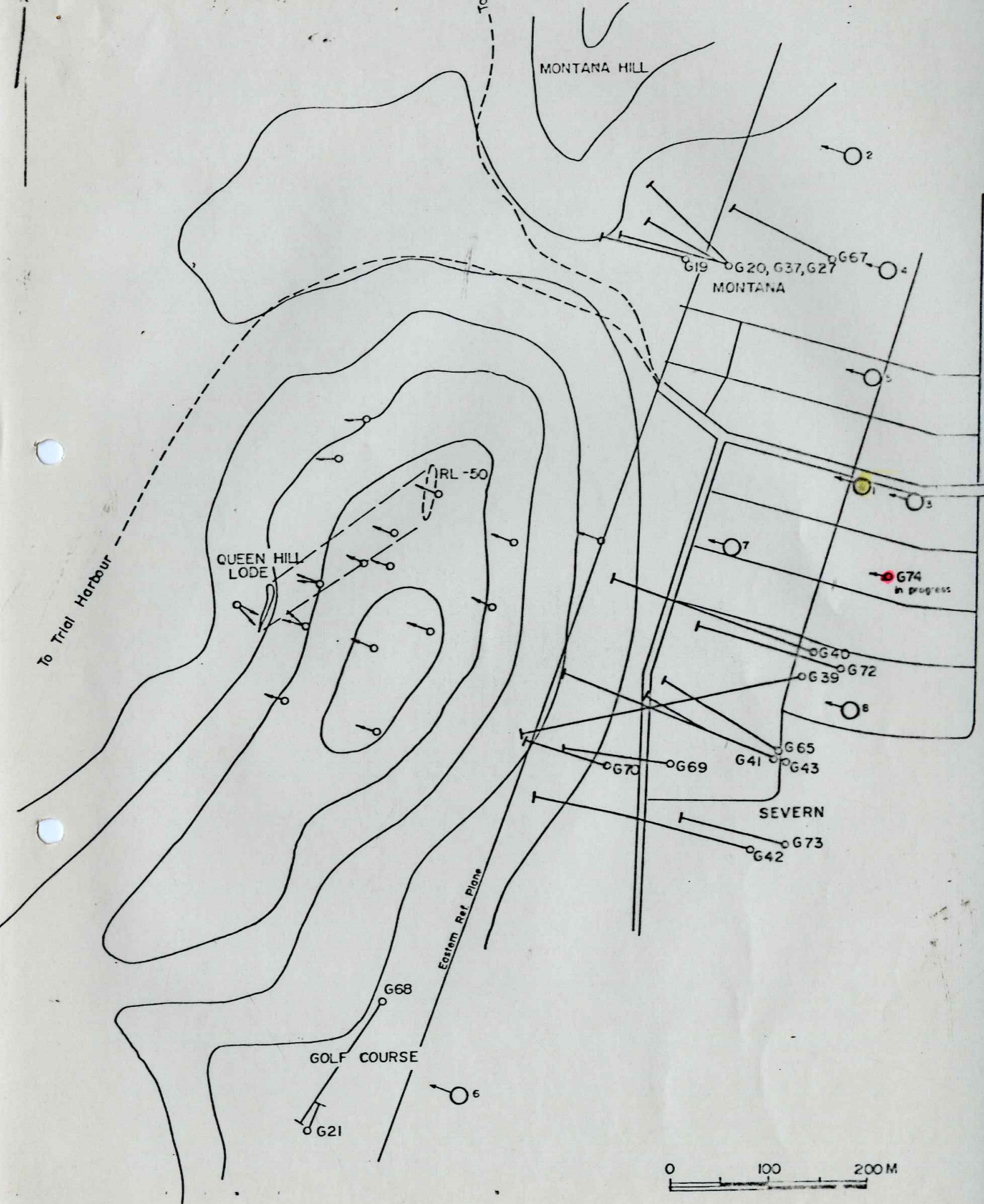
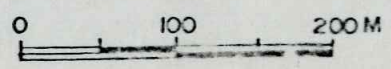
QUEEN HILL LODE

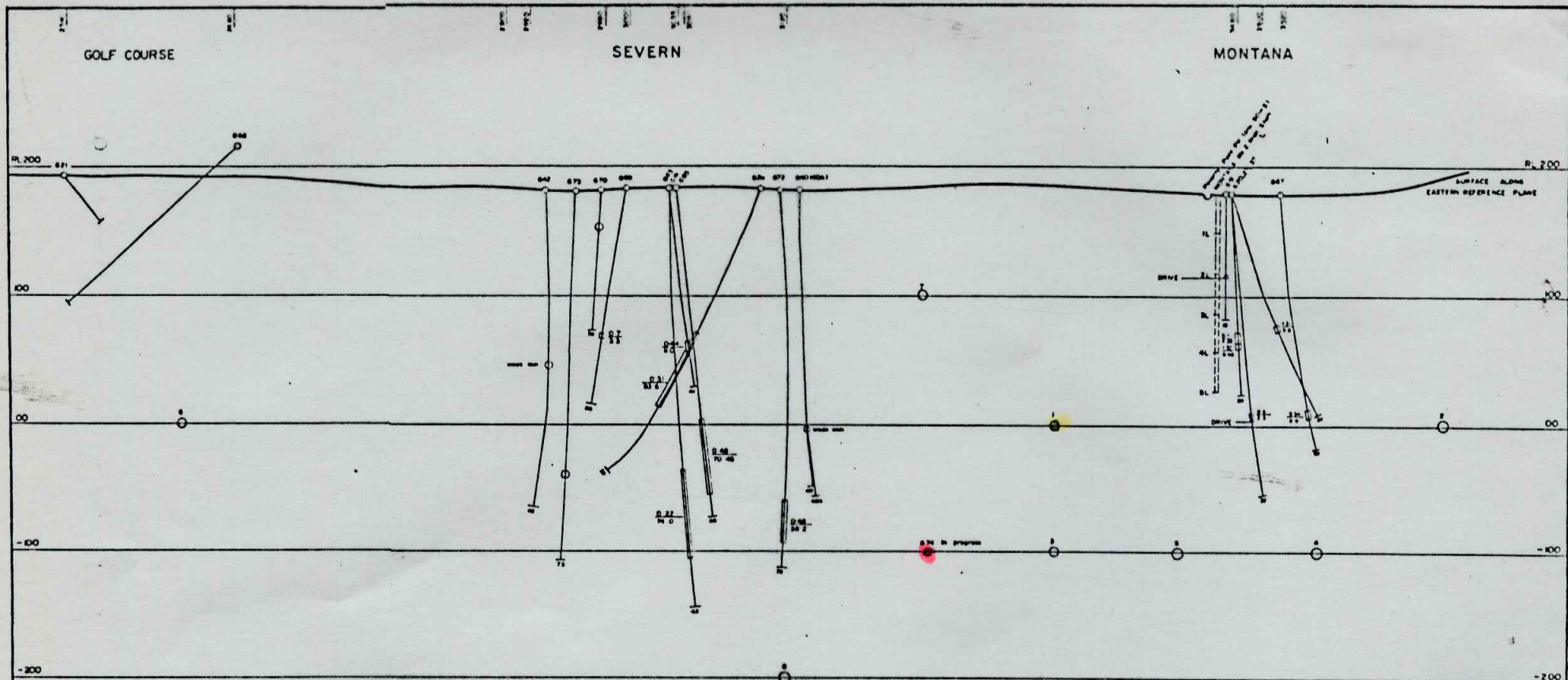
Eastern Ref. Plane

GOLF COURSE

MONTANA

SEVERN





- LEGEND -
- Cassiterite - Sulphide mineralisation
 - Proposed Exploration Hole

0 50 100 meters Week Ending

A Aberfoyle Exploration Pty Ltd		
Location: Drawn: R.J.E. Traced: R.J.E. Checked: Revised by: Ben	NORTH WEST TASMANIA SEVERN - MONTANA SUMMARY LONGITUDINAL PROJECTION 1980-81 DRILL PROGRAMME	Lithplan 1001: Date: April, 1981 Scale: 1:2,500 Plate 07: OH 166

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	21.10.80	186.7	2615.6	Golf Course Lode	No significant sulphide mineralisation noted.	-	-
G69	1588.8	1022.7	183.5	270.9	-53.5	23.10.80	6.11.80	208.5	2824.1	2970	89.5 - 102.5 Pyrite/pyrrhotite veins, 3-5% with quartz veining.	105	Weak mineralisation < 0.1% Sn.
											131.0-141.0: 15% pyrite as stockwork.	70	131.0-141.0 (10.0m) of 0.27% Sn.
											164.8-170.8m pyrite 5% locally 70% as veins.	47	164.8-170.8 (6m) of 0.3% Sn.
G70	1594.6	959.0	185.6	294.0	-48.0	10.11.80	17.11.80	151.2	2975.3	2970	No significant sulphide mineralisation noted.		
G71	1639.8	867.7	217.6	283.5	-56.5	26.11.80	12.01.81	358.2	3333.5	2980	180.2-182.3: Pyrite 10% locally 80% as veins.	70	Assay data not yet available.
											314.0-320.0: Pyrite 1-3% as veinlets.	-37.5	Weak mineralisation < 0.1% Sn.
											343.85-349.0: Pyrite 2-3% locally 80% as veins, tr. stannite.	-59.5	343.85-349.0 (5.15m) of 0.15% Sn.
G72	1649.5	1205.1	180.6	284.3	-63.1	16.01.81	09.03.81	340.5	3674.0	3125	275.3 - 282.5m : 1 - 3% pyrite veins. 282.5 - 300.3m : zone of pyrrhotite 10 - 15%, pyrite 1 - 5% veining. 300.3 - 313.5 m : pyrrhotite/pyrite stringer veins, 1 - 5%. Fault at 310.5m.	-60	275.3-313.5 (38.2m) of 0.48% Sn, includes
											-70	286.5-294.5 (8.0m)	
											-77		
											-93.5	of 1.88% Sn.	

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G73	1492.3	1139.6	180.4	281.4	-64.5	12.03.81	04.04.81	310.5	3984.5	2940	170.0-198.0m: Pyrite 1-2% locally 85% as veins 223.0-227.8m: Pyrite 2-3% locally 35% as fine diss. & veinlets.	24 -1.5 --27	170.0-198.0m (28m) 0.15% Sn, includes 171-173m (2m) of 1.29% Sn. 223.0-227.8m: Weak mineralisation < 0.1% Sn.
G74	1742.5	1252.1	179.8	281.0	-62.6	07.04.81	In progress	373.0		3225			

Date 30th June, 1981

Ref

To C. H. Young

From J. R. Sise

At Camberwell

At Burnie

Copies to E. H. Skey

Keep Weekly Drilling
Reports

Subject

QUEEN HILL DRILLING REPORT FOR PERIOD SEVERN
ENDING 29th JUNE , 1981.

Please find attached a summary sheet for Severn and a summary longitudinal projection for the Golf Course - Severn - Montana.

HOLE G74 SEVERN

This drill hole, commenced on 7 April 1981 has made virtually no progress during the period and remains bogged at 239 metres. After repeated efforts to cement the fault zone the core size was reduced to BQ in an attempt to penetrate after casing off the broken ground. Sludge and additional drilling difficulties have further frustrated the problem. An early breakthrough is hoped for this period.

HOLE G69 SEVERN

Additional assay results have been received for this hole. The interval, now thought to correlate with the Severn zone in G65, is reported as 131.0m to 141.0 m (10.0m) of 0.27% Sn.

A second A.D.D. rig has become available in Zeehan and offered to Aberfoyle. It is proposed to commence drilling early in Period 8 approximately half way between the Severn and Montana areas. (See QH 166)

ORE CHARACTERISATION, QUEEN HILL - SEVERN

A file note by C.H. Young on the meeting held at Zeehan on 19th June 1981 is attached.

DRILLING SUMMARY FOR PERIOD 7

Metres drilled: G74: 229.0 - $\frac{239.0}{10.0}$ m

Regards,

J. R. SISE

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elev-ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	
	North	East											
G73	1492.3	1139.6	180.4	281.4	-64.5	12.03.81	04.04.81	310.5	3984.5	2940	170.0-198.0m: Pyrite 1-2% locally 85% as veins 223.0-227.8m: Pyrite 2-3% locally 35% as fine diss. & veinlets.	24 -1.5 --27	170.0-198.0m (28m) 0.15% Sn, includes 171-173m (2m) of 1.29% Sn. 223.0-227.8m: Weak mineralisation < 0.1% Sn.
G74	1742.5	1252.1	179.8	281.0	-62.6	07.04.81	In progress	at 239m		3225			

SEVERN

MONTANA

RL200

RL 200

100

100

00

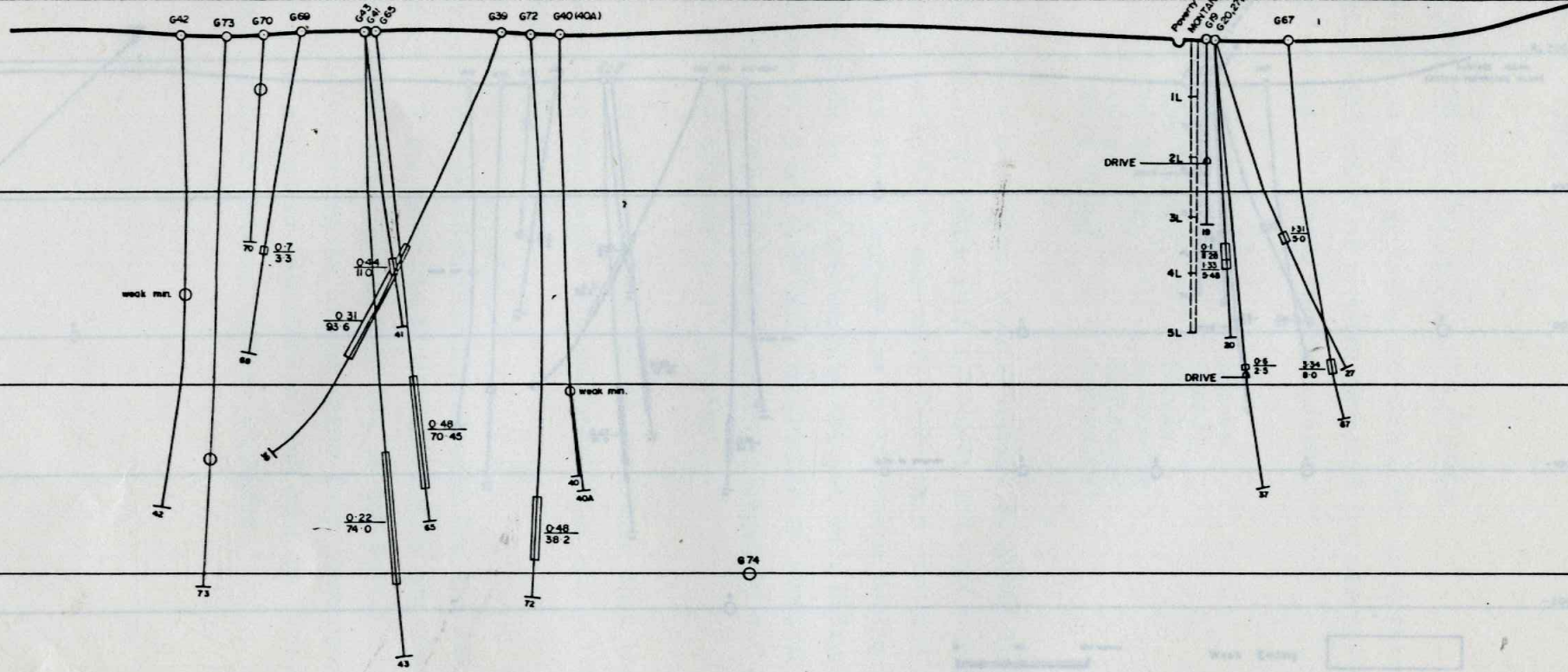
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-100

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-200

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PROPERTY POINT (1000, 800m D.)
 MONTANA No 2 Water Shaft
 G69, G72, G73

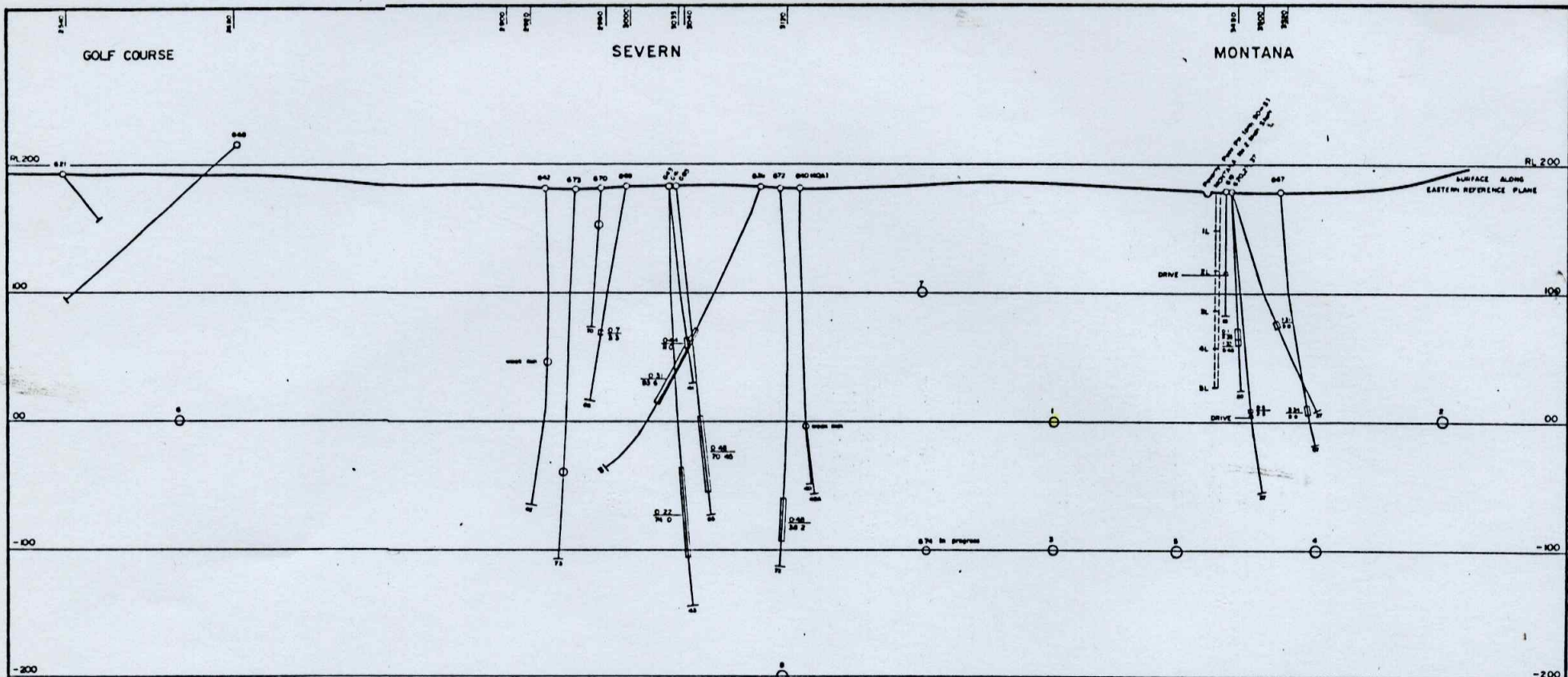
Aberfoyle Exploration Pty Ltd

SEVERN - MONTANA
 SUMMARY LONGITUDINAL PROJECTION
 580-81 DRILL PROGRAMME

Week Ending

- LEGEND -
- Cassiterite - Sulphide mineralisation
 - Proposed Exploration Hole

Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA	
Drawn: R.J.E.	SEVERN - MONTANA	
Traced: R.J.E.	SUMMARY LONGITUDINAL PROJECTION	
Checked:	1980-81 DRILL PROGRAMME	
Revised by: Date:		Location code:
		Date: April, 1981
		Scale: 1: 2,500
		Plate No
		QH 166



- LEGEND -

- Cassiterite - Sulphide mineralisation
- Proposed Exploration Hole

0 50 100 METRES Week Ending

A Aberfoyle Exploration Pty Ltd		
Geology: Drawn: R.J.E. Traced: R.J.E. Checked: Revised by: Date:	NORTH WEST TASMANIA SEVERN - MONTANA SUMMARY LONGITUDINAL PROJECTION 1980-81 DRILL PROGRAMME	Location code: Date: April, 1981 Scale: 1:2,500 Plate No: QH 166

FILE NOTE

23rd June, 1981.

ORE CHARACTERISATION, QUEEN HILL/SEVERN

A meeting was held at Zeehan on 19th June, to determine the suitability, location and number of samples required for ore characterisation of the Queen Hill - Severn Mineralisation.

Present:	Steve Richardson	Zeehan
	John Sise	Burnie
	Nick Moony	Burnie
	Ken Palmer	Melbourne
	Kevin Foo	Melbourne
	Chris Young	Camberwell

The cassiterite-sulphide mineralisation at Queen Hill and Severn occurs in the form of fracture vein networks and semi-massive to massive lodes. The cassiterite is of generally fine grain size and adequate recoveries are only obtainable through use of the Matte Fuming process. The overall grade of the resources is not yet well defined but is likely to be between 0.35 and 0.5% Sn. To produce an acceptable Matte Fuming feed, significant pre-concentration is required and ore characterisation of drill core samples is in progress.

The purpose of this meeting was to determine that the samples selected for ore characterisation are representative and suitable for metallurgical testing.

Preliminary ore characterisation results for the G65 intersection (202.05 - 272.5m) show the mineralisation is amenable to pre-concentration with greater than 80% of the Sn reporting with the sink fraction, representing an almost three fold concentration. Sulphur values show a similar distribution and confirm that the cassiterite mineralisation is related to the sulphides.

The G65 sample consists of sawn 1/8th NQ core slices, each 10cm long, taken at regular 1m intervals through the whole of the intersection. It is not known whether this is a fully representative sample and it is now proposed to sample the remaining (90cm units) core. This will allow comparison with the 10cm interval samples and can also be combined to give the same result as if the whole of the core was sampled.

Concerning the volume of material required for metallurgical samples; N. Moony indicated that over wide intervals, 1/8th sawn NQ core, taken as one continuous sample is satisfactory.

A further Severn sample will be evaluated and the G72 intersection between 275.3 and 315.5m was selected.

Drill core from the core shed destroyed by the Zeehan bush fire was heat damaged with appreciable oxidation of the sulphides and holes such as G39 and G43 are not suitable for metallurgical evaluation.

Two samples from Queen Hill were previously selected by Ken Palmer, these are:

G49	115.35 to 204.4m
G62	200.0 to 255.0m

It is anticipated that the five samples, two from Queen Hill and three from Severn (2 of G65) will be representative of the mineralisation and will satisfy the short term objective, that is to decide if continued resource drilling is warranted.

Endorsement and approval of this project must be conducted in the approved manner and N. Moony has indicated a CMS charge of \$2,500 per sample. This project has high priority as the Queen Hill/Severn resource needs to be fully defined prior to a pending decision on the location and size of the Matte Fuming plant. To this end sample preparation has already commenced.

XRF ANALYSIS: SAMPLE PREPARATION

K. Foo noted that total Sn in a sample is not necessarily released for XRF detection by conventional sieving . In some cases sieving for twice the conventional time has resulted in a 20% increase in Sn values. This appears to occur in either very hard material or when the cassiterite is extremely fine grained.

It was recommended that grindability curves be established for the Queen Hill/Severn mineralisation and N. Moony will instigate this investigation using Queen Hill and Severn metallurgical samples provided for ore characterisation.

C. H. Young

C. H. YOUNG,
DISTRICT MANAGER

SEVERN

MONTANA

RL200

RL 200

100

100

00

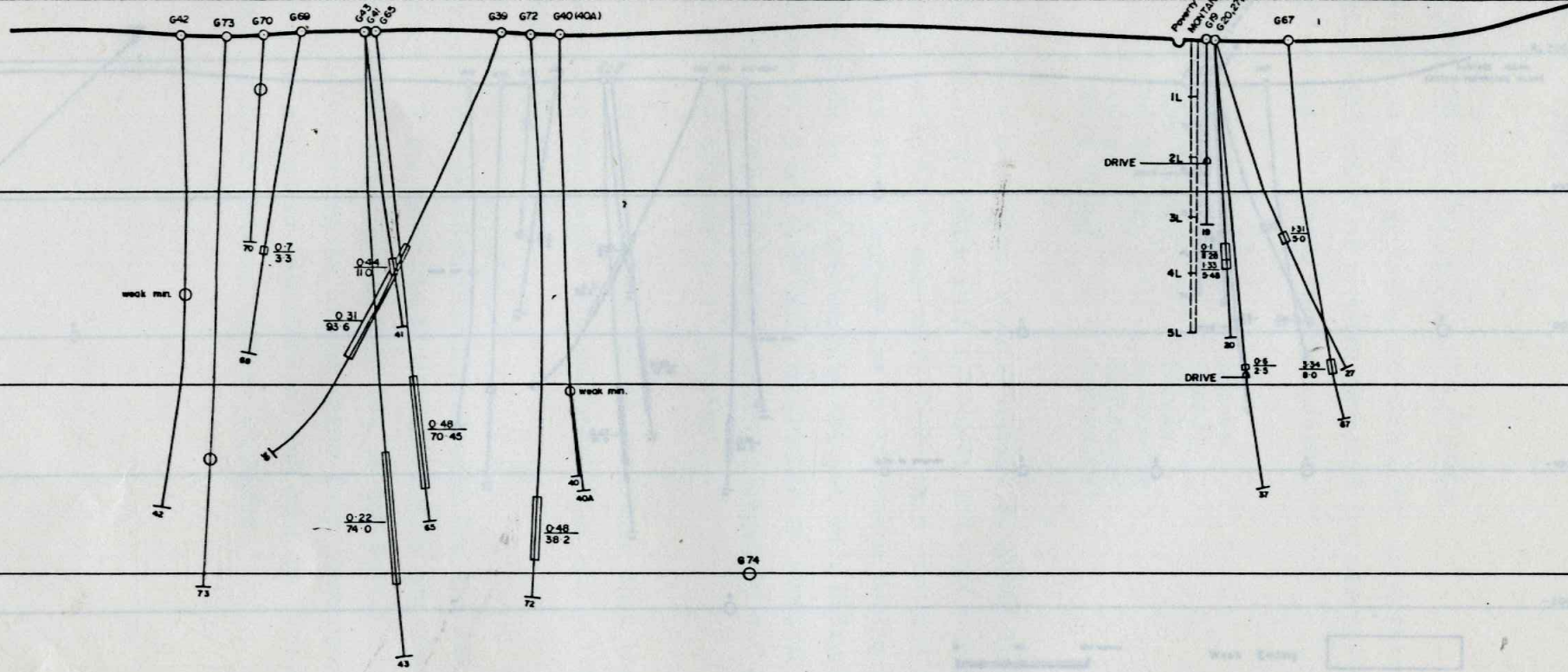
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- LEGEND -

- Cassiterite - Sulphide mineralisation
- Proposed Exploration Hole

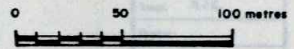
Aberfoyle Exploration Pty Ltd

Geology:	NORTH WEST TASMANIA	Location code:
Drawn: R.J.E.	SEVERN - MONTANA	Date: April, 1981
Traced: R.J.E.	SUMMARY LONGITUDINAL PROJECTION	Scale: 1: 2,500
Checked:	1980 - 81 DRILL PROGRAMME	Plate No
Revised by: Date:		QH 166

Aberfoyle Exploration Pty Ltd

SEVERN - MONTANA
SUMMARY LONGITUDINAL PROJECTION
1980-81 DRILL PROGRAMME

Week Ending



St. Dizier East:

Anomalies 228 G and 229 A : geology, geochemistry, ground E.M. and magnetics, and I.P. completed.

Anomaly 231 A : ground magnetics completed.

QUEEN HILL ML's

DRILLING:
STATISTICS:

PERIOD 6 | ENDING 1 JUNE 1981.

No holes collared during the period. 72.5 m of drilling completed.

DDH G74 SEVERN

This drill hole which was commenced on 7 April is progressing very slowly at 229 metres and is still some 50 metres from the target area. A fault zone within the Crimson Creek Formation has caused penetration problems.

DDH 73 SEVERN

Complete assay results for core split in this hole are now available. Results are:

170.0m - 198.0m : 28.0m of 0.15% Sn - includes 171.0 - 173.0
(2.0m) of 1.29% Sn

223.0m - 227.8m : weak mineralisation <0.1% Sn

DDH 69 SEVERN

Further assaying to close-off the mineralised zone below 169.8 metres are to hand. The interval is now expanded from 164.8m to 170.8m (6.0m) of 0.3% Sn.

DIGHAM FOLLOW-UP

Anomalies 401A and 401B have been geologically mapped.

CORE REHABILITATION

Sorting and re-boxing of core from the burnt-out core shed at Stopp Street was completed on 19th May. A total of 725 trays representing 85 - 90% of the original core, was salvaged in 210 HQ, 331 NQ and 184 BQ trays.

Modular storage at the Aberfoyle Premises in Main Street is being constructed to accomodate core trays.

A Bombadier - mounted Auger rig, lent by Amoco Exploration for trial, was used to drill two traverses across the New Mount Zeehan lode. Weathered bedrock samples were collected, logged and submitted for assay.

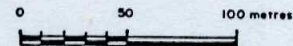
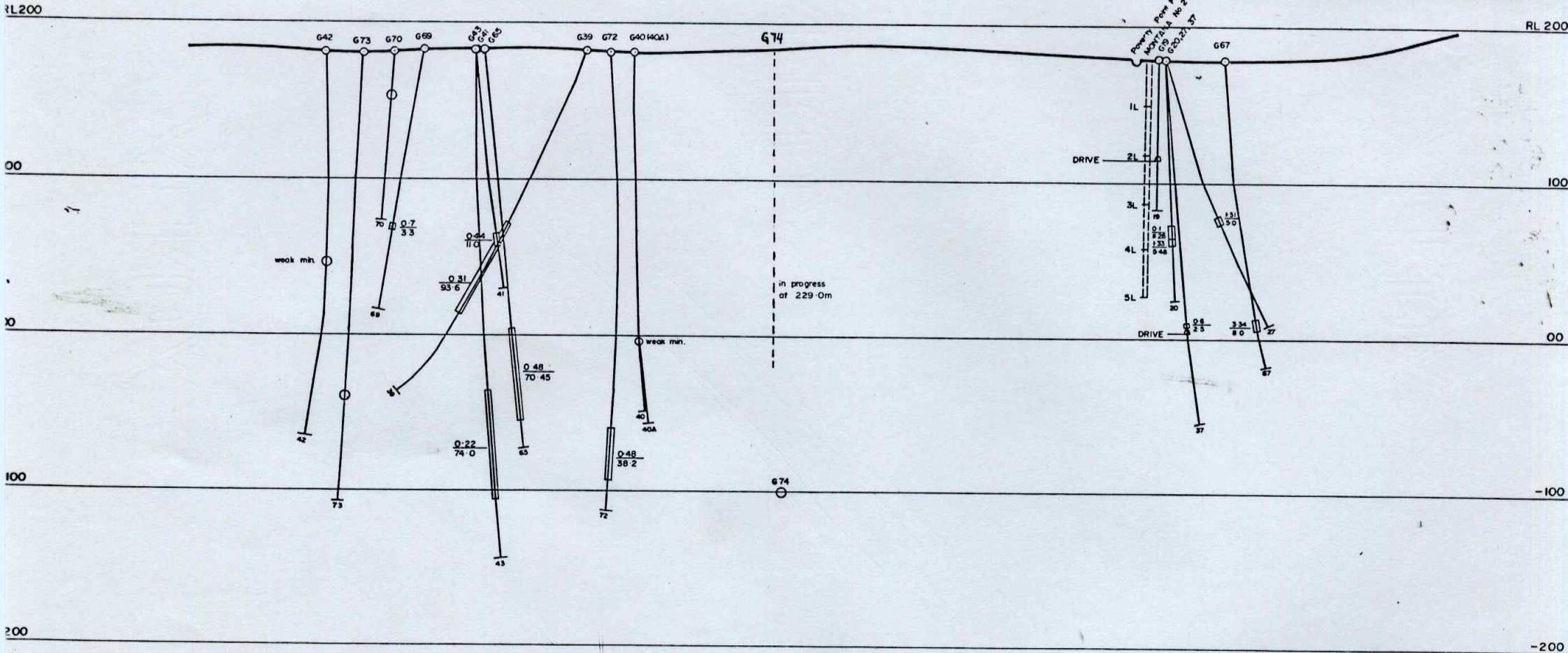
Attachments: Summary sheet and summary longitudinal project for Severn-Montana.

J. R. SISE.

29.5.81

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	Intersection	
	North	East										RL of Intersection	Intersection
G73	1492.3	1139.6	180.4	281.4	-64.5	12.03.81	04.04.81	310.5	3984.5	2940	170.0-198.0m: Pyrite 1-2% locally 85% as veins 223.0-227.8m: Pyrite 2-3% locally 35% as fine diss. & veinlets.	24 -1.5 --27	170.0-198.0m (28m) 0.15% Sn, includes 171-173m (2m) of 1.29% Sn. 223.0-227.8m: Weak mineralisation < 0.1% Sn.
G74	1742.5	1252.1	179.8	281.0	-62.6	07.04.81	In progress at	229m		3225			



Week Ending

- LEGEND -

- Cassiterite - Sulphide mineralisation
- Proposed Exploration Hole

A Aberfoyle Exploration Pty Ltd

Geology:	
Drawn:	R.J.E.
Traced:	R.J.E.
Checked:	
Revised by:	Date:

NORTH WEST TASMANIA
SEVERN - MONTANA
 SUMMARY LONGITUDINAL PROJECTION
 1980-81 DRILL PROGRAMME

Location code:	
Date:	April, 1981
Scale:	1: 2,500
Plate No:	QH 166

Date 4th May, 1981

Ref

To C.H. Young

From J.R. Sise

At Camberwell

At Burnie

Copies to E.H. Skey

Keep Weekly Drilling Reports

Subject

QUEEN HILL DRILLING REPORT FOR WEEKS ENDING
30.4.81 AND 4.5.81 UP TO END OF PERIOD 5.

Please find attached a summary sheet for Severn and a summary longitudinal projection for Severn - Montana.

Hole G71 Queen Hill

Most of the assay results for this hole are now available. A zone of mineralisation 343.85 - 349.0m (5.15) of 0.15% Sn is indicated.

Hole G74 Severn

This hole, commenced on 7 April 1981, is in progress at 156.5m in light to dark grey shales and green tuffaceous greywacke of the Crimson Creek Formation.

Drilling Summary For Period 5

Metres drilled : G74 0 - $\frac{156.5m}{156.5m}$

Regards,

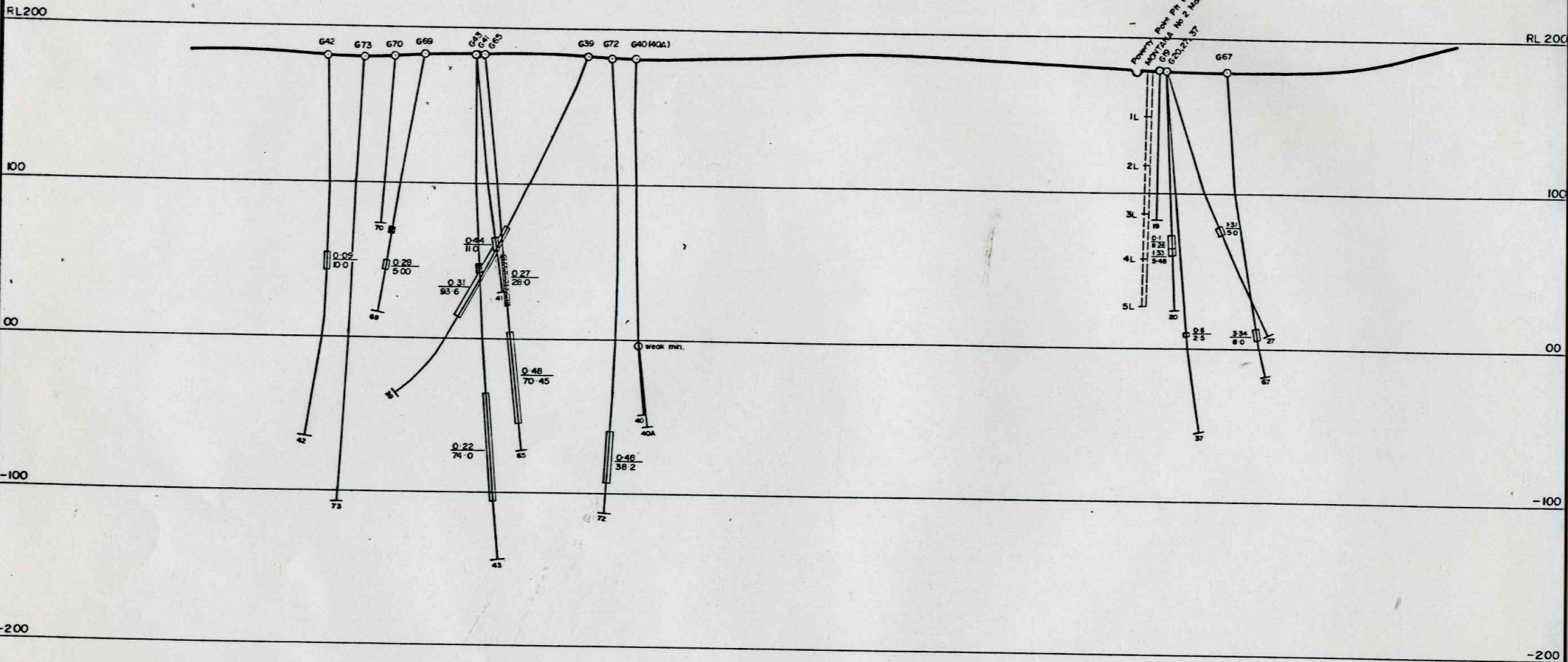
J. R. SISE.

QUEEN HILL - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G73	1492.3	1139.6	180.4	281.4	-64.5	12.03.81	4.04.81	310.5	3984.5	2950	170.4-189.6 : 1-2% pyrite as veins.		Assay data not yet available.
G74	1742.5	1252.1	179.8	281.0	-62.6	7.04.81	In progress	at 156m		3225			

QUEEN HILL - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	21.10.80	186.7	2615.6	Golf Course Lode	No significant sulphide mineralisation noted.	-	-
G69	1588.8	1022.7	183.5	270.9	-53.5	23.10.80	6.11.80	208.5	2824.1	2970	89.5 - 102.5 Pyrite/pyrrhotite veins, 3-5% with quartz veining.	105	Weak mineralisation < 0.1% Sn.
											137.7-141.0: 15% pyrite as stockwork.	70	137.7-141.0 (3.3m) of 0.7% Sn.
											164.8-169.8: pyrite 5% locally 70% as veins.	47	164.8-169.8 (5m) of 0.28% Sn.
G70	1594.6	959.0	185.6	294.0	-48.0	10.11.80	17.11.80	151.2	2975.3	2970	No significant sulphide mineralisation noted.		
G71	1639.8	867.7	217.6	283.5	-56.5	26.11.80	12.01.81	358.2	3333.5	2980	180.2-182.3: Pyrite 10% locally 80% as veins.	70	Assay data not yet available.
											314.0-320.0: Pyrite 1-3% as veinlets.	-37.5	Weak mineralisation < 0.1% Sn.
											343.85-349.0: Pyrite 2-3% locally 80% as veins, tr. stannite.	-59.5	343.85-349.0 (5.15m) of 0.15% Sn.
G72	1649.5	1205.1	180.6	284.3	-63.1	16.01.81	09.03.81	340.5	3674.0	3125	275.3 - 282.5m : 1 - 3% pyrite veins. 282.5 - 300.3m : zone of pyrrhotite 10 - 15%, pyrite 1 - 5% veining. 300.3 - 313.5 m : pyrrhotite/pyrite stringer veins, 1 - 5%. Fault at 310.5m.	-60	275.3-313.5 (38.2m) of 0.48% Sn, includes
												-70	286.5-294.5 (8.0m)
												-77	
												-93.5	of 1.88% Sn.



Priority
 Mon 17.21.81
 G68
 G69
 G70
 G72
 G73
 No 2 Wash Sheet

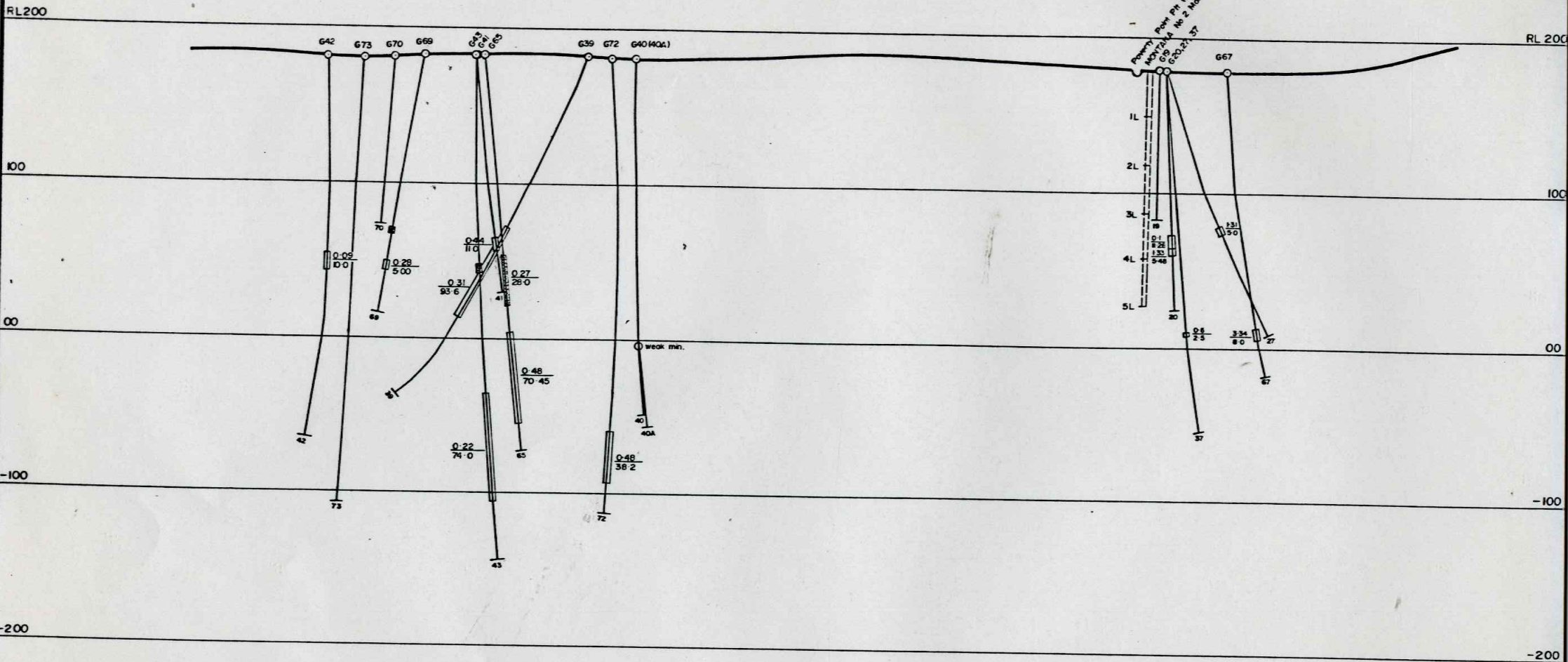
Week Ending

- LEGEND -

- Cassiterite - Sulphide mineralisation
- Proposed Exploration Hole

A Aberfoyle Exploration Pty Ltd

Geology:	NORTH WEST TASMANIA		Location code:
Drawn: R.J.E.	SEVERN - MONTANA		Date: April, 1981
Traced: R.J.E.	SUMMARY LONGITUDINAL PROJECTION		Scale: 1: 2,500
Checked:	1980-81 DRILL PROGRAMME		Plate No:
Revised by: Date:			QH 166



Week Ending

- LEGEND -

- Cassiterite - Sulphide mineralisation
- Proposed Exploration Hole

A Aberfoyle Exploration Pty Ltd

Geology:	NORTH WEST TASMANIA SEVERN - MONTANA SUMMARY LONGITUDINAL PROJECTION 1980-81 DRILL PROGRAMME	Location code:
Drawn: R.J.E.		Date: April, 1981
Traced: R.J.E.		Scale: 1: 2,500
Checked:		Plate No
Revised by: Date:		QH 166

Date 23rd, April 1981

Ref

To C.H. Young

From J.R. Sise

At Camberwell

At Burnie

Copies to E.H. Skey

Keep Weekly Drilling Reports

Subject QUEEN HILL DRILLING REPORT FOR WEEKS ENDING 16.4.81 AND 23.4.81

Please find attached a summary sheet for Severn.

Hole G72 Severn

Complete assay data for this hole is now to hand. An ore grade intersection from 275.3 m to 313.5 m, (38.2 m) of 0.48% Sn is indicated. The interval includes 8.0 m (286.5 - 294.5) of 1.88% Sn. It is noteworthy that this intersection is of the same grade as the 70.4 m of 0.48% Sn in Severn hole G65, which is located 100 m south - west of G72.

Hole G73 Severn

Complete assay results are not yet available. The interval 170.0 m to 198.0 m has been split for assay. A further section from 223.0 m to 227.8 m is to be split.

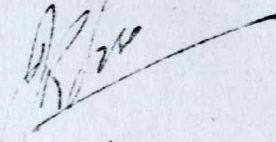
Hole G74 Severn

This hole was commenced on 7 April 1981 and is in progress at 76 metres, in light to dark grey shales and green tuffaceous greywacke of the Crimson Creek Formation.

Plan Compilation

A composite summary longitudinal projection of the Severn - Montana section is in preparation and will be ready for the Period Report.

Regards,



J.R. SISE.

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G73	1492.3	1139.6	180.4	281.4	-64.5	12.03.81	4.04.81	310.5	3984.5	2950	170.4-189.6 : 1-2% pyrite as veins.		Assay data not yet available.
G74	1742.5	1252.1	179.8	281.0	-62.6	7.04.81	In progress	at 86m		3225			

Date 6th April, 1981

Ref

To C.H. Young

From J.R. Sise

At Camberwell

At Burnie

Copies to E.H. Skey

Keep Weekly Drilling Reports

Subject QUEEN HILL DRILLING REPORT FOR PERIOD 4, ENDING 6.4.81

Please find attached a summary sheet and summary longitudinal projection for Severn.

Hole G69 Severn

Assay results for this hole are now available. Two zones of mineralization: 137.7 - 141.0m (3.3m) of 0.7% Sn, and 164.8 - 169.8m (5.0m) of 0.28% Sn are indicated. Further assaying to close-off the mineralised interval below 169.8m is required.

Hole G71 Queen Hill

Core sawing for assay of two intervals in this hole is complete:

314.0 - 320.0m
343.0 - 349.0m

Hole G72 Severn

Core sawing of this hole is complete. The intervals to be assayed are:

235.5 - 244.5m
262.5 - 314.5m
332.5 - 333.5m

Hole G73 Severn

This hole, designed to test the potential for extension to the ore zone on section 2950 at RL - 100, was commenced on 12.4.81 and completed on 4.4.81 at 310.5 m

At 238.3m the hole passed through a fault zone separating the typical shale and tuffaceous greywacke succession of the Crimson Creek Formation (0 - 238.3m) from the quartzite - slate sequence of the upper Oonah Formation. From 270.7m to end of hole a gradational change to a siliceous quartzite with up to 1% disseminated pyrite was recorded.


Pyrite mineralisation (1-2%) occurring as veins was intersected between 170.4 - 189.6m, however the target area near the fault contact with the quartzite sequence was barren.

The interval 170.0 - 186.0m has so far been split for assay.

Drilling Summary For Period 4

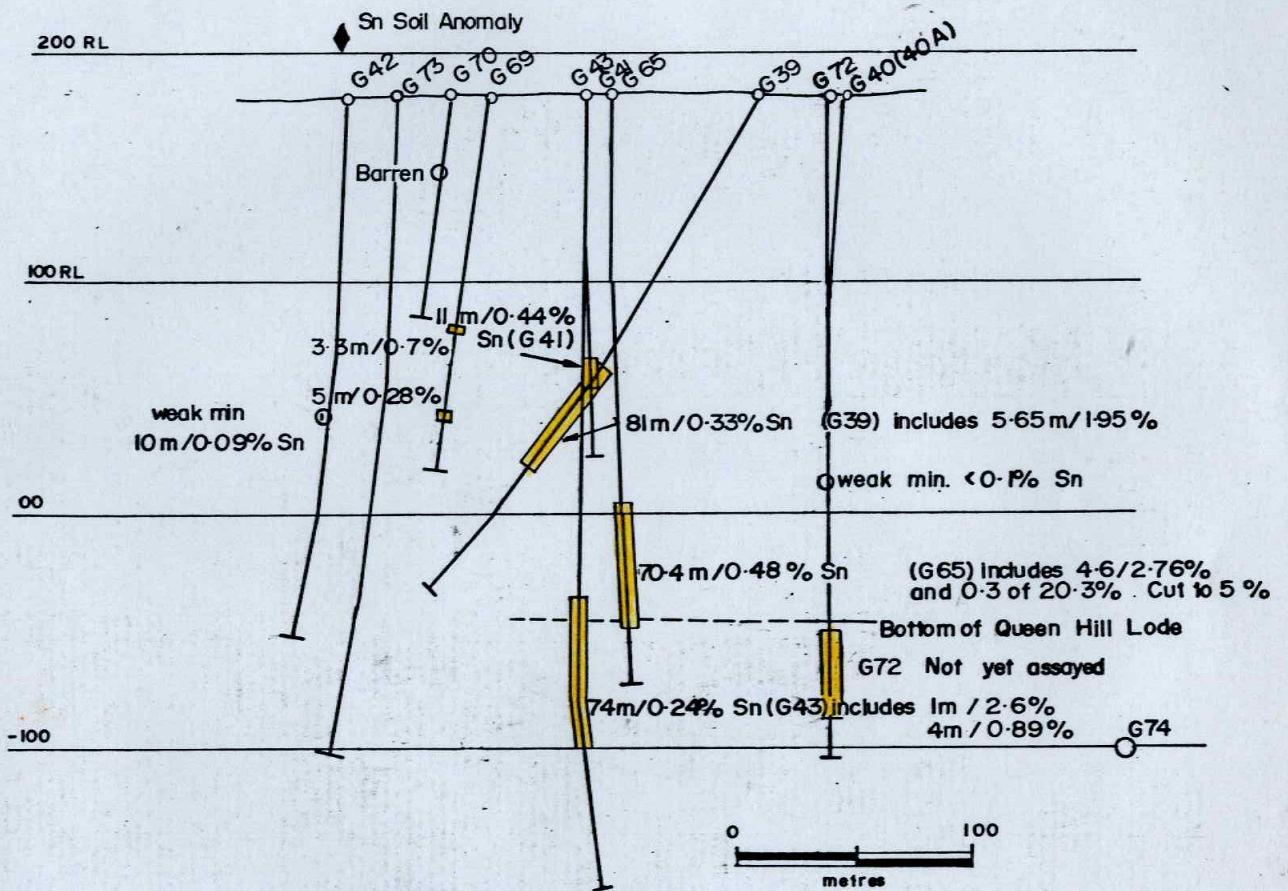
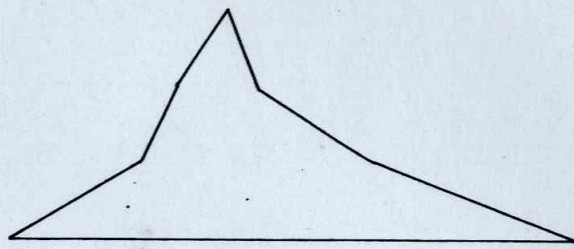
Metres drilled: G73 0 - 310.5m
310.5m

Regards,



J.R. SISE.
PROJECT GEOLOGIST - TASMANIA.

MAGNETIC ANOMALY



□ Cassiterite-Sulphide mineralisation

⊙ Proposed exploration holes

 **Aberfoyle Exploration Pty Ltd**

Drawn:
Traced: J.L.R.
Checked:
Revised by: Date:

NORTH WEST TASMANIA
QUEEN HILL LICENCE E.L47/71
SEVERN
SUMMARY LONGITUDINAL PROJECTION

Location code:
Date: Dec 1980
Scale: As shown
Plate No: QH 164

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elev- ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G73	1492.3	1139.6	180.4	281.4	-64.5	12.03.81	4.04.81	310.5	3984.5	2950	170.4-189.6 : 1-2% pyrite as veins.		Assay data not yet available.
G74										3225			

Date 9th March, 1981

Ref

To C.H. Young

From J.R. Sise

At CAMBERWELL

At BURNIE

Copies to E.H. Skey

Keep Weekly Drilling Reports

Subject

QUEEN HILL DRILLING REPORTS FOR WEEKS ENDING
19.2.81, 26.2.81 and 9.3.81 up to end of Period 3

HOLE G72 SEVERN

This hole was commenced on 16/1/81 and completed at 340.5 m on 9/3/81 in fine grained pyritic quartzite. Five days drilling were lost due to the drill line becoming "sludged-in" and the subsequent prolonged recovery of the rods. Weak pyrite/pyrrhotite mineralisation was intersected between 275.0 m and 313.0 m but includes a section from 282.5-300.3 m of 10-15% pyrrhotite and 1-5% pyrite,

The interval 275.0-313.0 m is estimated as 38 m of >0.4% Sn. A fault at 310.5 m separates the Crimson Creek shales and fine grained volcanoclastic sediments from the underlying predominantly quartzitic sequence.


The rig will now move to drill the next Severn hole, G73.

HOLE G65 SEVERN

Complete assay data for this hole is now to hand. The previously reported intersection below 202.05 m is now expanded to 70.4 m of 0.48% Sn.

DRILLING SUMMARY FOR PERIOD 3

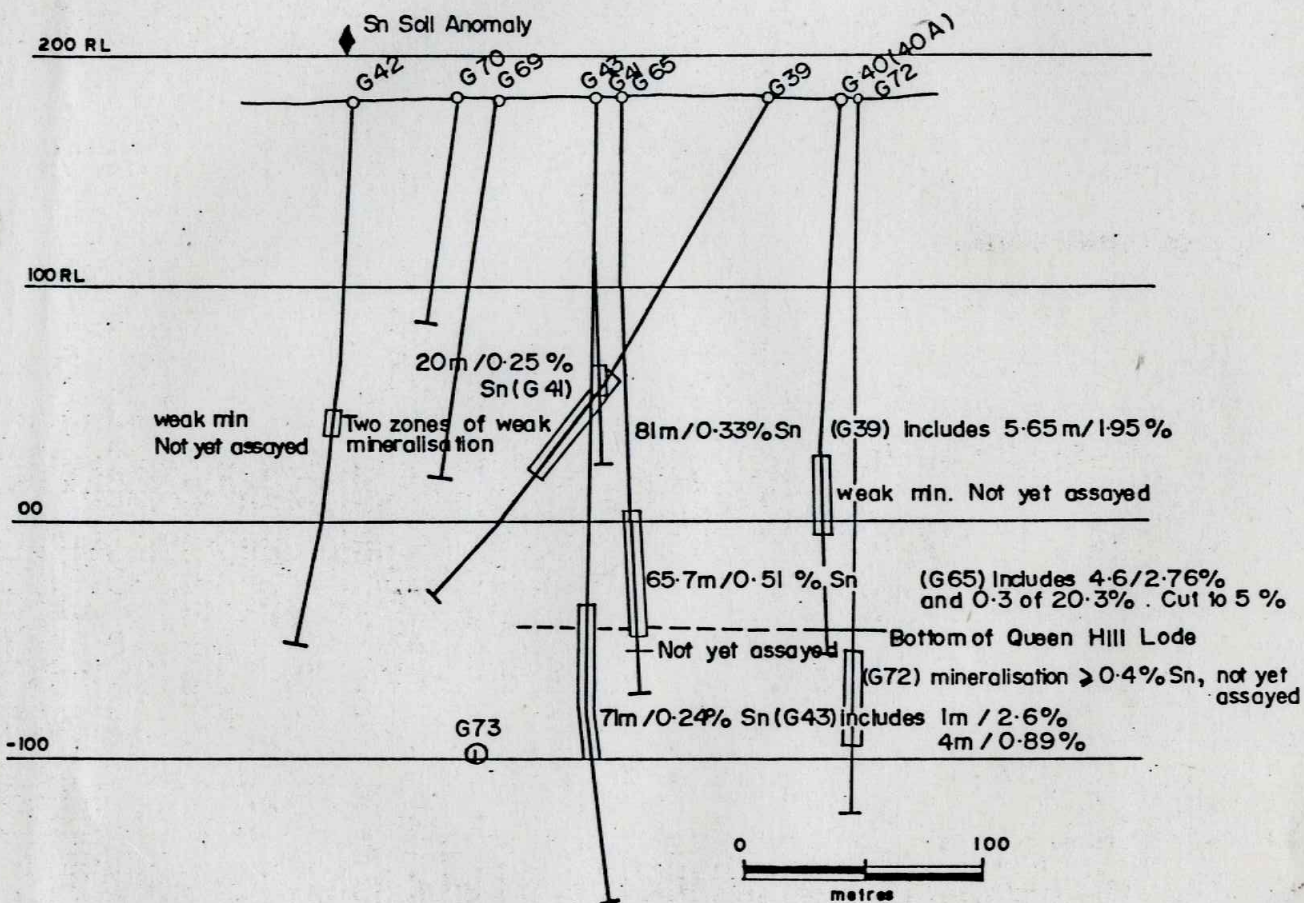
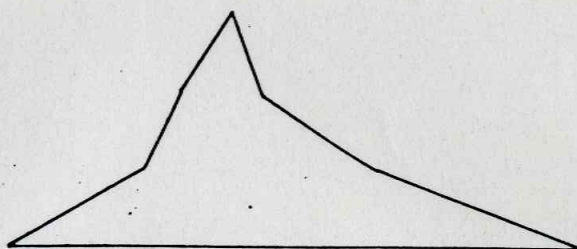
Metres drilled: G72 160.5 to 340.5
180.0 m



JOHN SISE
PROJECT GEOLOGIST - TASMANIA

To be replaced

MAGNETIC ANOMALY



□ Cassiterite - Sulphide mineralisation

⊙ Proposed exploration holes

To be replaced



Aberfoyle Exploration Pty Ltd

Drawn:	NORTH WEST TASMANIA QUEEN HILL LICENCE E.L47/71 SEVERN SUMMARY LONGITUDINAL PROJECTION	Location code:
Traced: J.L.R		Date: Dec 1980
Checked:		Scale: As shown
Revised by: Date:		Plate No QH 164

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elev- ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
673	1492.3	1139.6	180.4	281.4	-64.5	12.03.81	In progress			2950			

Date	11th February, 1981.	Ref	CHY:JAB
To	E. H. Skey	From	C. H. Young
At	Camberwell	At	Camberwell
Copies to	S. M. Richards .. J. Sise S. Richardson	Keep	QH WKLY DRILLING REPORTS

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEKS ENDING
15.1.81, 22.1.81, 29.1.81 AND 9.2.81 (END PERIOD 2).

Please find attached a summary sheet and a summary longitudinal projection for Severn.

Hole G72 Severn

This hole commenced on 16.1.81 and is proceeding slowly at 160.5m in shales and tuffaceous greywackes of the Crimson Creek Formation.

Drilling Summary for Period 2:

Holes Collared: 1. (G72)
 Metres Drilled: G72 (0 to 160.5)
160.5m

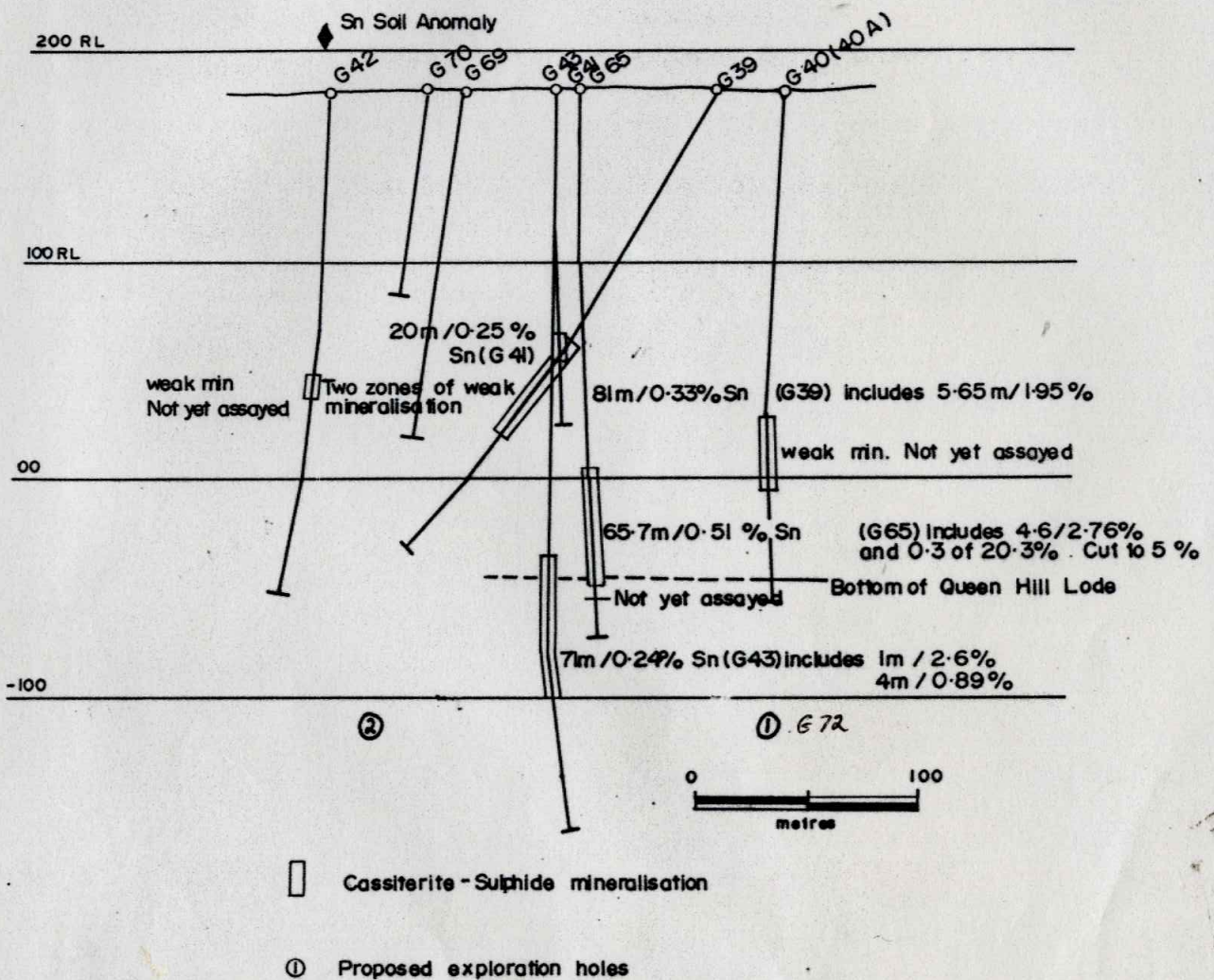
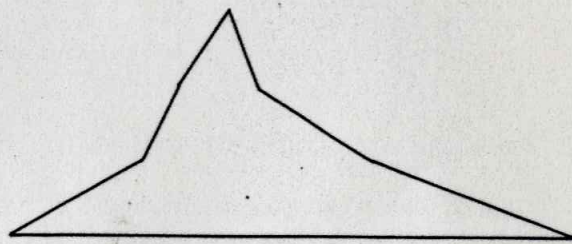
C. H. Young

 CHRIS YOUNG,
 DISTRICT MANAGER.

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	21.10.80	186.7	2615.6	Golf Course Lode	No significant sulphide mineralisation noted.	-	-
G69	1588.8	1022.7	183.5	270.9	-53.5	23.10.80	6.11.80	208.5	2824.1	2970	89.5 - 102.5 Pyrite/pyrrhotite veins, 3-5% with quartz veining. 165.0 - 170.1 Pyrite 5% locally 70% as veins.	104 45	Assay data not yet available.
G70	1594.6	959.0	185.6	294.0	-48.0	10.11.80	17.11.80	151.2	2975.3	2970	No significant sulphide mineralisation noted.		
G71	1639.8	867.7	217.6	283.5	-56.5	26.11.80	12.01.81	358.2	3333.5	2980	82.8 - 83.4m. Pyrite veins 10-15%. No other significant sulphide mineralisation noted.	-	
G72	1649.5	1205.1	180.6	284.3	-63.1	16.01.81	In progress at 160.5m.						

MAGNETIC ANOMALY



Aberfoyle Exploration Pty Ltd

Drawn:

Traced: J.L.R

Checked:

Revised by: Date:

NORTH WEST TASMANIA
 QUEEN HILL LICENCE E.L47/71
 SEVERN
 SUMMARY LONGITUDINAL PROJECTION

Location code:

Date: Dec 1980

Scale: As shown

Plate No QH 164

Date 14th January, 1981. Ref CHY:JAB
 To S. M. Richards From C. H. Young
 At Melbourne At Camberwell
 Copies to Camberwell File, S. Richardson, Keep
 Burnie Office.

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEKS ENDING
 26.12.80, 2.1.81 AND 12.1.81 (END PERIOD 1B)

Please find attached a summary longitudinal projection for Queen Hill.

Hole G71 Queen Hill

This hole was completed at 358.2m in Quartzite-slate rocks after passing through the target zone at 255m.

At 302m the hole passed from the Quartzite-slate sequence into an internal volcanic unit and then back to Quartzite-slate rocks at 326.2m. Another small volcanic unit was intersected between 337 and 344m. No significant sulphide mineralisation was intersected. G47 is located 20m to the north of G71 and shows there is no cassiterite-sulphide mineralisation near the main volcanic contact.

This rig will now move to drill the next Severn hole beneath G40.

Drilling Summary for Period 1:

Holes collared 1. (G71)

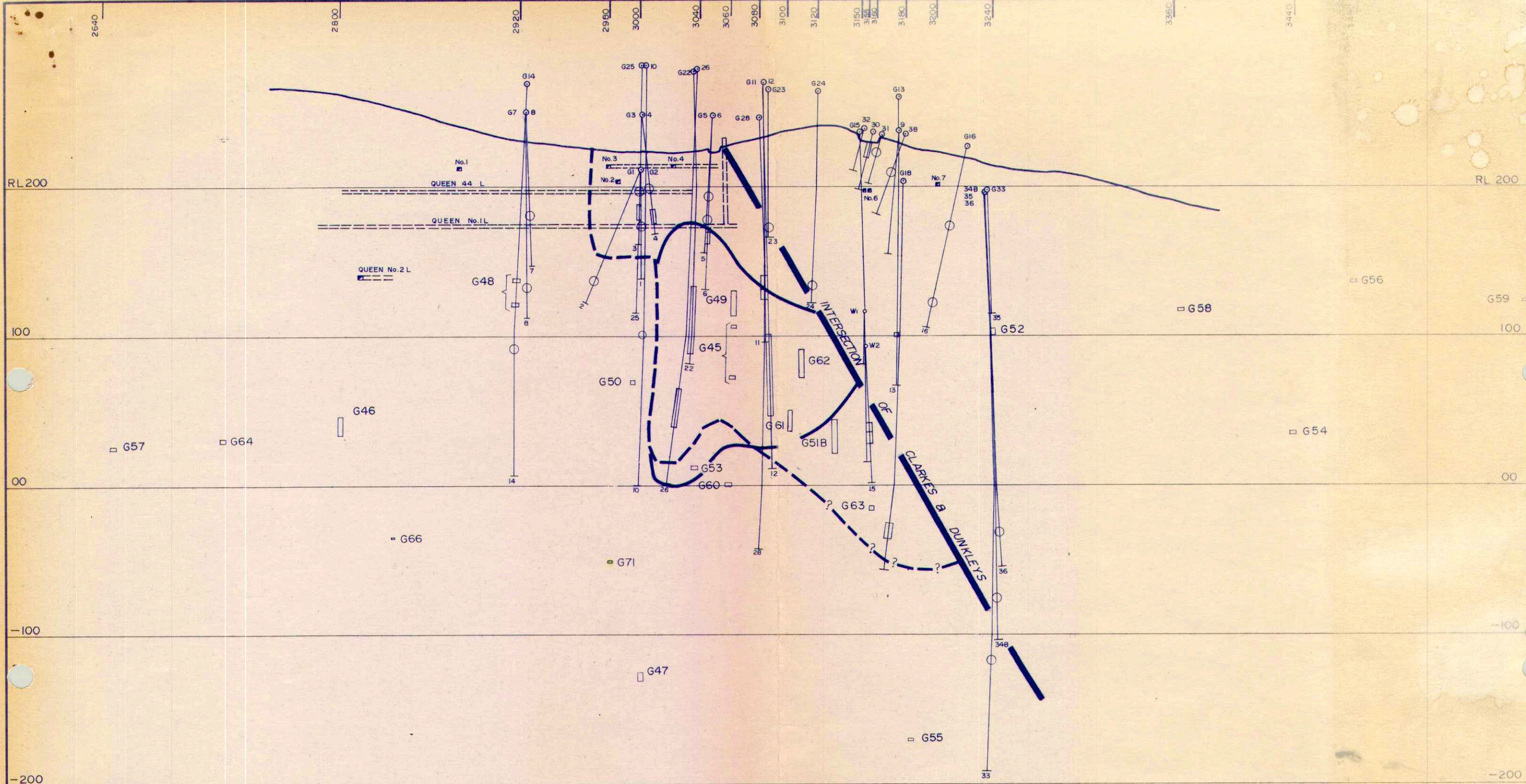
Metres drilled	G70 (from 138 to 151.2)	13.2
	G71	<u>358.2</u>
		<u>371.4</u>

C. H. Young

Chris Young

QUEEN HILL — Diamond Drilling Summary

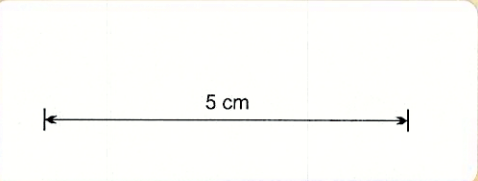
D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	21.10.80	186.7	2615.6	Golf Course Lode	No significant sulphide mineralisation noted.	-	-
G69	1588.8	1022.7	183.5	270.9	-53.5	23.10.80	6.11.80	208.5	2824.1	2970	89.5 - 102.5 Pyrite/pyrrhotite veins, 3-5% with quartz veining. 165.0 - 170.1 Pyrite 5% locally 70% as veins.	104 45	Assay data not yet available.
G70	1594.6	959.0	185.6	294.0	-48.0	10.11.80	17.11.80	151.2	2975.3	2970			
G71	1639.8	867.7	217.6	283.5	-56.5	26.11.80	12.01.81	358.2	3333.5	2980	82.8 - 83.4m. Pyrite veins 10-15%. No other significant sulphide mineralisation noted.	-	



- LEGEND -

- Hole completed
- ⊕ Ore Reserve hole proposed
- ⊕ Exploration hole proposed
- Queen Hill Lode (Interpreted outline only)
- Inner Lode (Interpreted outline only)

Week Ending 12. 1. 81



Aberfoyle Exploration Pty Ltd		
<p>Geology:</p> <p>Drawn: R.J.E.</p> <p>Traced: R.J.E.</p> <p>Checked:</p>	<p>NORTH WEST TASMANIA</p> <p>QUEEN HILL</p> <p>SUMMARY LONGITUDINAL PROJECTION</p> <p>1980 DRILL PROGRAMME</p>	<p>Location code:</p> <p>Date: APRIL 1980</p> <p>Scale: 1:2500</p> <p>Plate No:</p>

ABERFOYLE

MEMORANDUM

Date 19th December, 1980.

Ref CHY:JAB

To S. M. Richards

From C. H. Young

At Melbourne

At Camberwell

Copies to Camberwell File, S. Richardson,
Burnie Office.

Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEKS ENDING 4.12.80, 11.12.80
AND 19.12.80, (NOMINALLY END PERIOD 1A)

Please find attached a summary sheet and summary longitudinal projection for Severn.

Hole G71 Queen Hill

This hole is in progress at 274.0m.

Summary log is as follows:-

0 - m Quartzite
m Quartzite Slate Sequence

Severn

The Severn ground magnetic data was assessed by J. Silic. Depth to top of source is considered to be no greater than 50-75 metres. The magnetic expression appears to define a body with a near vertical pipe like shape.

Two holes, designed to test potential for a large zone of mineralisation, with dimensions of 5-7 million tonnes at a grade of > 0.3% Sn, are shown on the attached summary longitudinal projection. The drill site for the hole beneath G40 has been prepared.

Drilling will close down for the Xmas New Year Break on the 19.12.80 and re-commence on 5.1.81.

Regards,

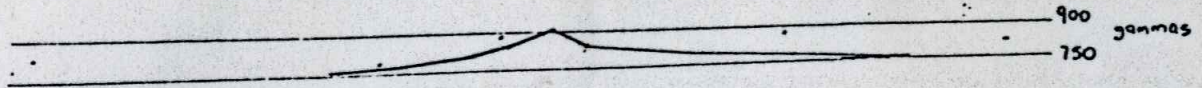
C. H. Young.

C. H. Young
District Manager

QUEEN HILL — Diamond Drilling Summary

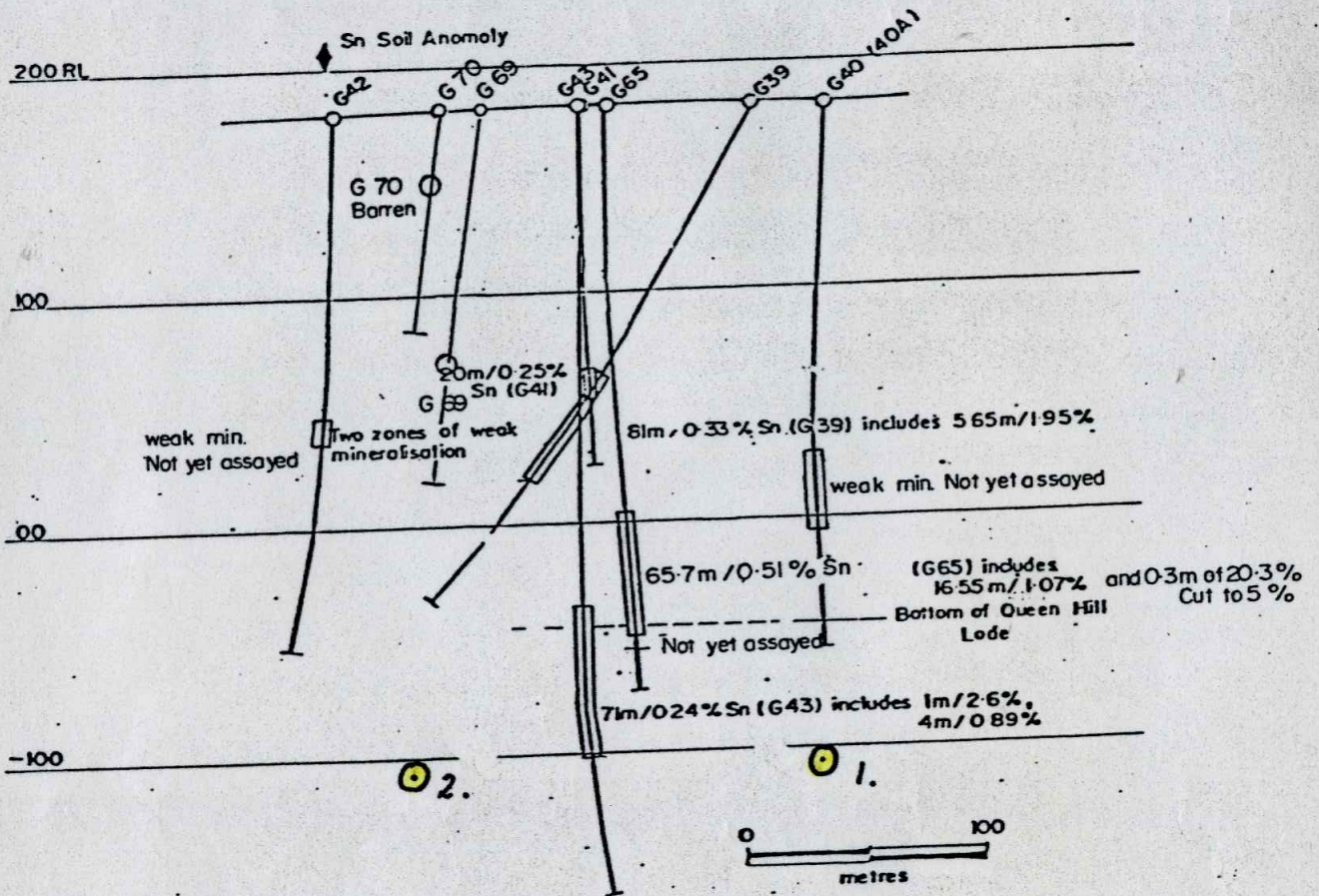
D.H. No.	Co-ordinates		Elev-ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G67	2073.7	1219.4	181.2	289.3	-64.3	8.9.80	30.9.1980	223.5	2428.9	3520	192.3 - 200.3 m Vein Pyrite 60-80%, siderite, quartz gangue.	10	192.3-200.3 (8.0m) 3.34% Sn.
G68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	21.10.80	186.7	2615.6	Golf Course Lode	No significant sulphide mineralisation noted.	-	-
G69	1588.8	1022.7	183.5	270.9	-53.5	23.10.80	6.11.80	208.5	2824.1	2970	89.5 - 102.5 Pyrite-pyrrhotite veins, 3-5% with quartz veining. 165.0 - 170.1 Pyrite 5% locally 70% as veins.	104 45	
G70	1594.6	959.0	185.6	294.0	-48.0	10.11.80	17.11.80	151.2	2975.3	2970			
G71	1639.8	867.7	217.6	283.5	-56.5	26.11.80	In progress at m.			2980	82.8 - 83.4m. Pyrite veins 10-15%.		

MAGNETIC ANOMALY



SEVERN

SUMMARY LONGITUDINAL PROJECTION



Date December 1, 1980.

Ref

To S.M. Richards,

From C.H. Young,

At Melbourne.

At Burnie.

Copies to Adelaide Files, S. Richardson.

Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEKS ENDING 20.11.80 AND 27.11.80

Please find attached a summary sheet, a section for Severn and summary longitudinal section for Queen Hill and Severn.

Hole G70 Severn

This hole was completed at 151.2 m on 17.11.80.

Summary log is as follows:

0	-	41 m	Crimson Creek shales and fine grained volcanoclastic sediments.
41	-	82.3 m	Quartzite slate sequence.
83.3	to	EOH.	Quartzite.

There was no significant mineralisation in the hole apart from pyrite 10-15% veins over 60 cm below 82.8 m and pyrite 2-3% veins over 3.5 m below 143 m.

Hole G71 Queen Hill

This hole, designed to test the potential for extensions to the known ore zone on Section 2980, adjacent to the G26 intersection, is in progress at 30 m.

Hole G65 Severn

The majority of the assay data is now available and two zones of cassiterite-sulphide stringer mineralisation are defined:

1. An upper zone of 0.27% Sn over 28 m below 150.5 m.
2. The Severn zone of 0.51% Sn over 65.7 m below 202.05 m. This zone includes a vein rich in cassiterite which assays 20.3% Sn over 0.3 m, this was cut to 5% Sn for the overall grade estimate.

Included in the above zone is a separate 16.55 m of 1.07% Sn below 248.95 m.

Below 267.75 m there is a continuance of weak sulphide veining and the Severn zone may be extended when further assay data is available.

The failure of the shallow holes G69 and G70 to intersect the Severn zone of mineralisation shows there is little likelihood of a connection with the Sn soil anomaly.

The Severn data was completely reassessed with the following result:

1. The Severn zone of mineralisation is spatially related to the contact between the Proterozoic? Quartzite and Slate sequence and the Cambrian Crimson Creek Formation.
2. The contact zone appears to be a focus for significant fracturing, due to a distinct rock unit competency contrast and the mineralisation is clearly related to structurally broken and brecciated ground.
3. Drill results to date suggest the mineralisation has a relatively short strike length, perhaps no greater than 150 m, but with a true width probably greater than 50 m. These dimensions fit the shape of the Severn Magnetic Anomaly and appear to describe a steeply plunging breccia pipe of perhaps Ardlethan size.
4. The increase in both grade and width of mineralisation with depth is encouraging and suggests a deeply buried source, perhaps a cupola. There seems no reason why the mineralisation should not improve with depth.
5. To determine potential for a large zone of mineralisation with dimensions of 5-7 million tonne at a grade >0.3% Sn three drill holes are proposed. These are designed to test the area of the contact beneath the Severn Magnetic Anomaly. Their position is shown on the accompanying summary longitudinal projection and cross section. One hole is designed to test at shallow depth directly beneath the anomaly and the other two at depth, adjacent to G65.

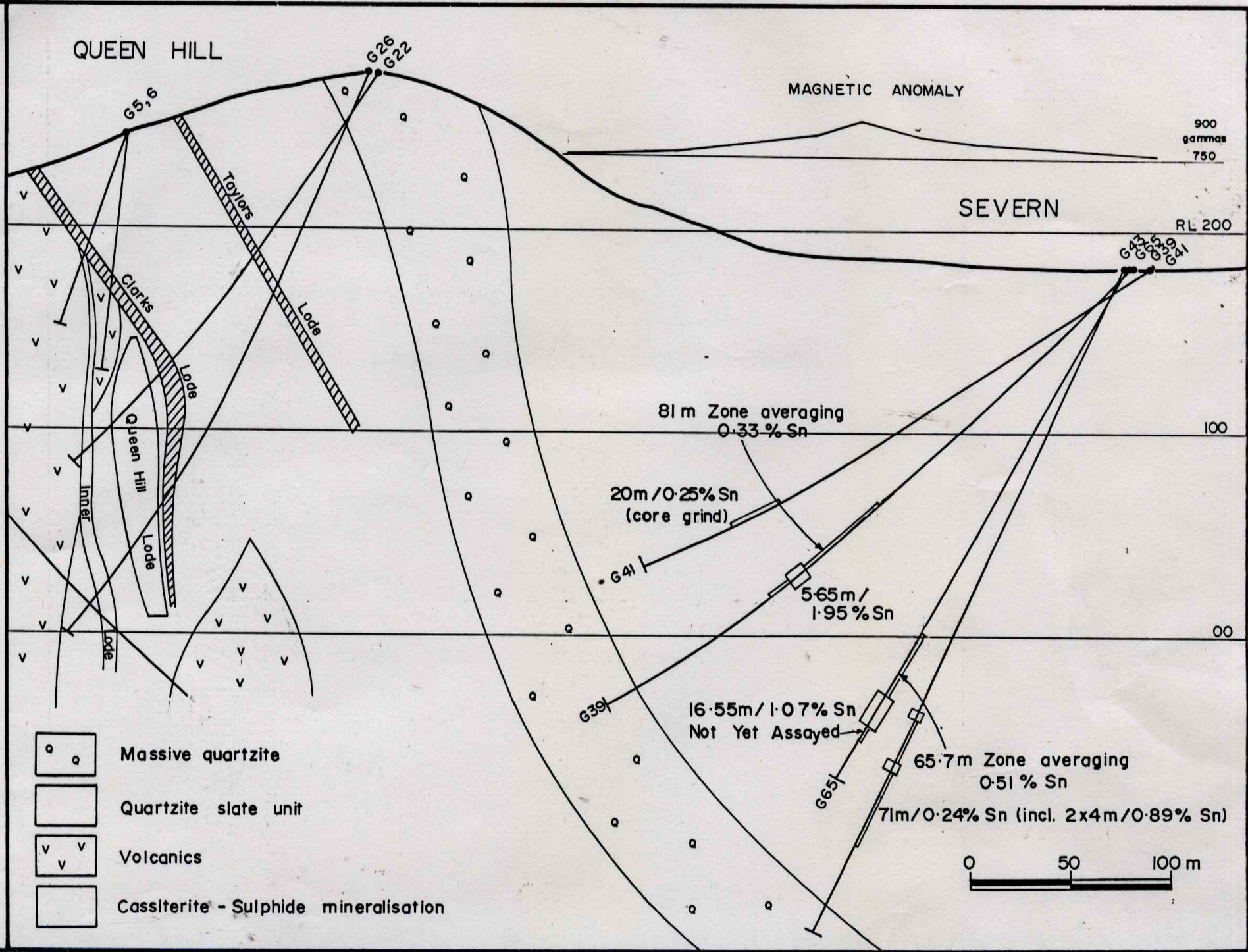
Regards,



C.H. YOUNG.

Drawn: C.H.Y.
 Traced: R.J.E.
 Checked:
 Revised by:
 Date:

Aberfoyle Exploration Pty Ltd



NORTH WEST TASMANIA

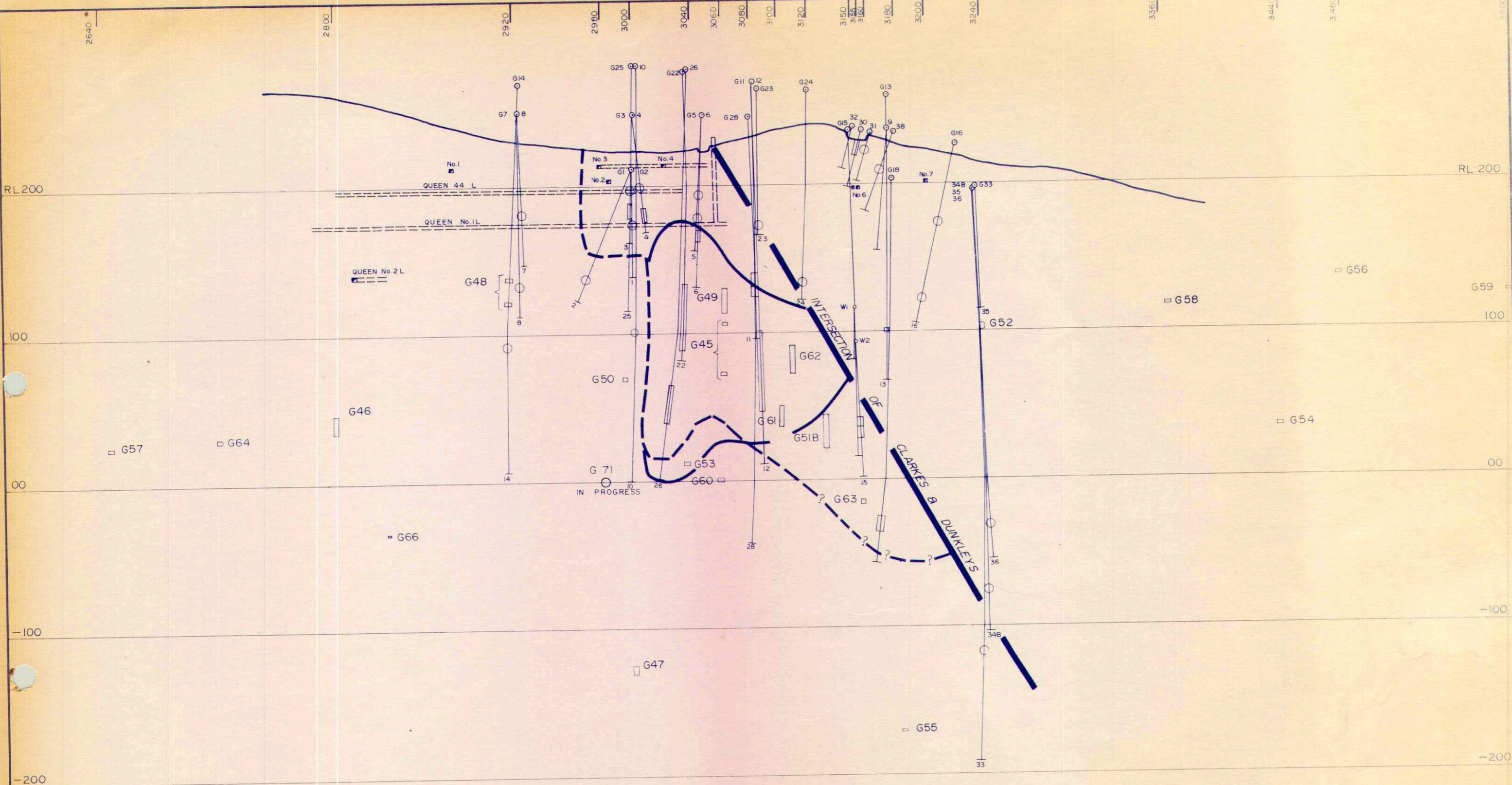
QUEEN HILL - SEVERN AREA

SECTIC 3040

Location code:
 Date: October, 1980
 Scale: 1:2500
 Plate No:

QUEEN HILL — Diamond Drilling Summary

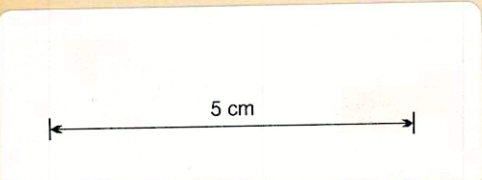
D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G67	2073.7	1219.4	181.2	289.3	-64.3	8.9.80	30.9.1980	223.5	2428.9	3520	192.3 - 200.3 m Vein Pyrite 60-80%, siderite, quartz gangue.	10	192.3-200.3 (8.0m) 3.34% Sn.
G68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	21.10.80	186.7	2615.6	Golf Course Lode	No significant sulphide mineralisation noted.	-	-
G69	1588.8	1022.7	183.5	270.9	-53.5	23.10.80	6.11.80	208.5	2824.1	2970	89.5 - 102.5 Pyrite-pyrrhotite veins, 3-5% with quartz veining. 165.0 - 170.1 Pyrite 5% locally 70% as veins.	104 45	
G70	1594.6	959.0	185.6	294.0	-48.0	10.11.80	17.11.80	151.2	2975.3	2970			
G71						26.11.80	In progress at 30 m.			2980			



- LEGEND -

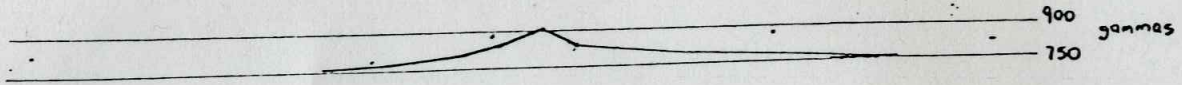
- Hole completed
- ⊕ Ore Reserve hole proposed
- ⊕ Exploration hole proposed
- Queen Hill Lode (Interpreted outline only)
- Inner Lode (Interpreted outline only)

Week Ending



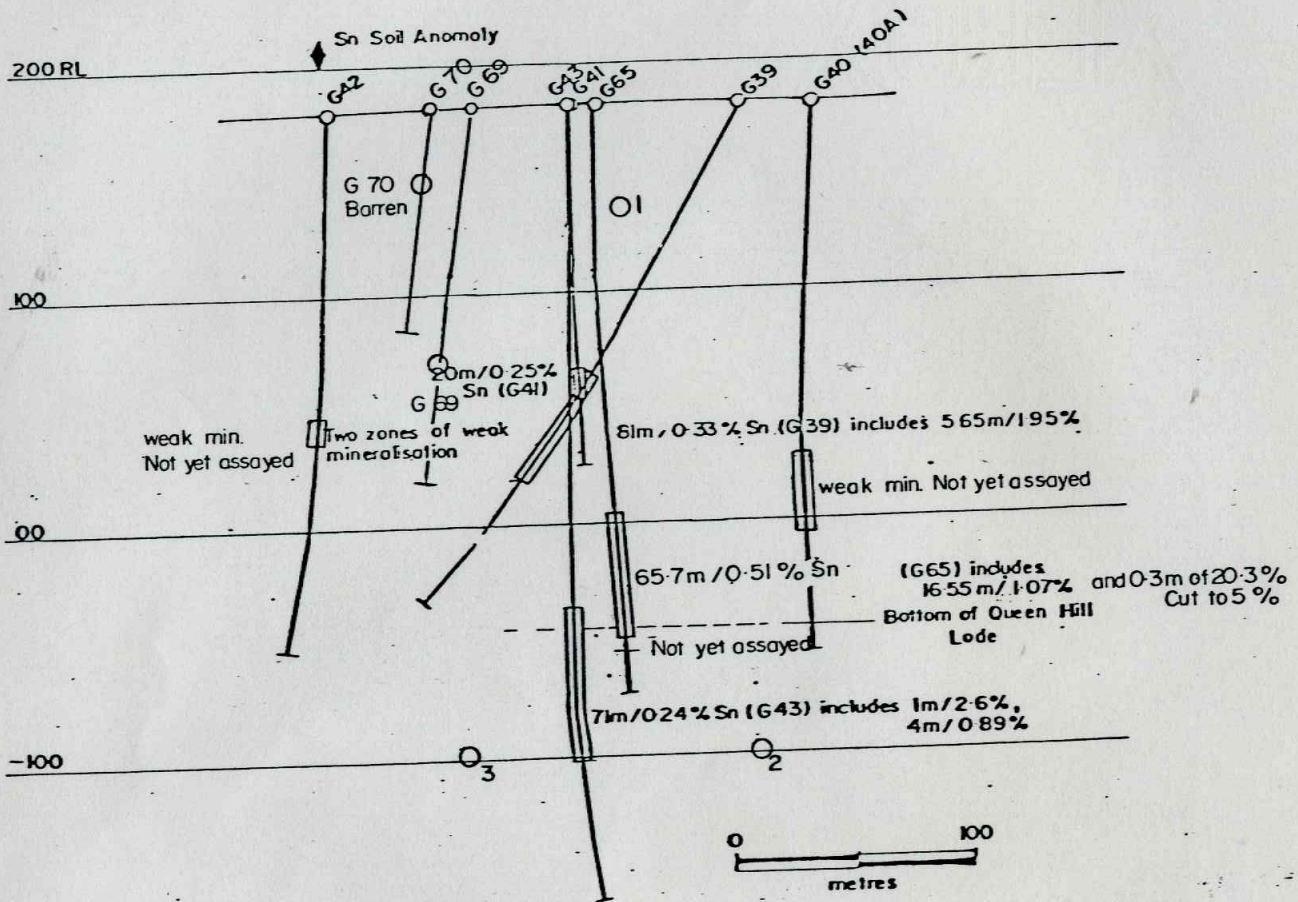
Aberfoyle Exploration Pty Ltd		
Geology	NORTH WEST TASMANIA QUEEN HILL SUMMARY LONGITUDINAL PROJECTION. 1980 DRILL PROGRAMME	
Drawn RJE	Location code:	
Traced RJE	Date April, 1980	
Checked	Scale 1:2500	
Revised by RJE Date APRIL 1980	Plate No QH 147	

MAGNETIC ANOMALY



SEVERN

SUMMARY LONGITUDINAL PROJECTION



▨ Cassiterite - Sulphide mineralisation

⊙ Proposed exploration holes

Date November 17, 1980. Ref
To S.M. Richards, From C.H. Young,
At Melbourne. At Burnie.
Copies to Adelaide files, S. Richardson. Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEKS ENDING 6.11.1980 AND 17.11.1980
(PRO-RATA TO END OF YEAR).

Please find attached a summary sheet and longitudinal projection for Severn.

Hole G65 Severn

All remaining core samples are now at the Cleveland Laboratory awaiting assay.

Hole G69 Severn

This hole was completed at 208.5 m in quartzite.

Two intervals of weak sulphide veining were intersected:

- 1) 89.5 - 102.5 m Pyrite, pyrrhotite and quartz veins, sulphide content overall estimated at 3-5%.
2. 165.0 - 170.1 m Pyrite 5% locally 70% coarse grained in veins.

Cassiterite has been noted, however overall, only low grade Sn mineralisation is anticipated.

Hole G70 Severn

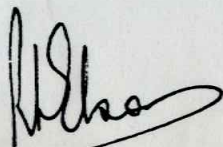
This hole is in progress at 78 m. No significant mineralisation has been noted to this depth.

Core sawing for assay of the 20 m low grade interval in G41 Severn has commenced.

As a further check for low grade Sn mineralisation intervals of sulphide veining in the old Severn holes, G40 and G42 will be sawn for assay. These intervals are: 211 - 216 m and 244 - 257 m in G40 and 140 - 195 m in G42.

Site preparation has commenced for a Severn drill hole to test at -90 RL below G65.

Regards,

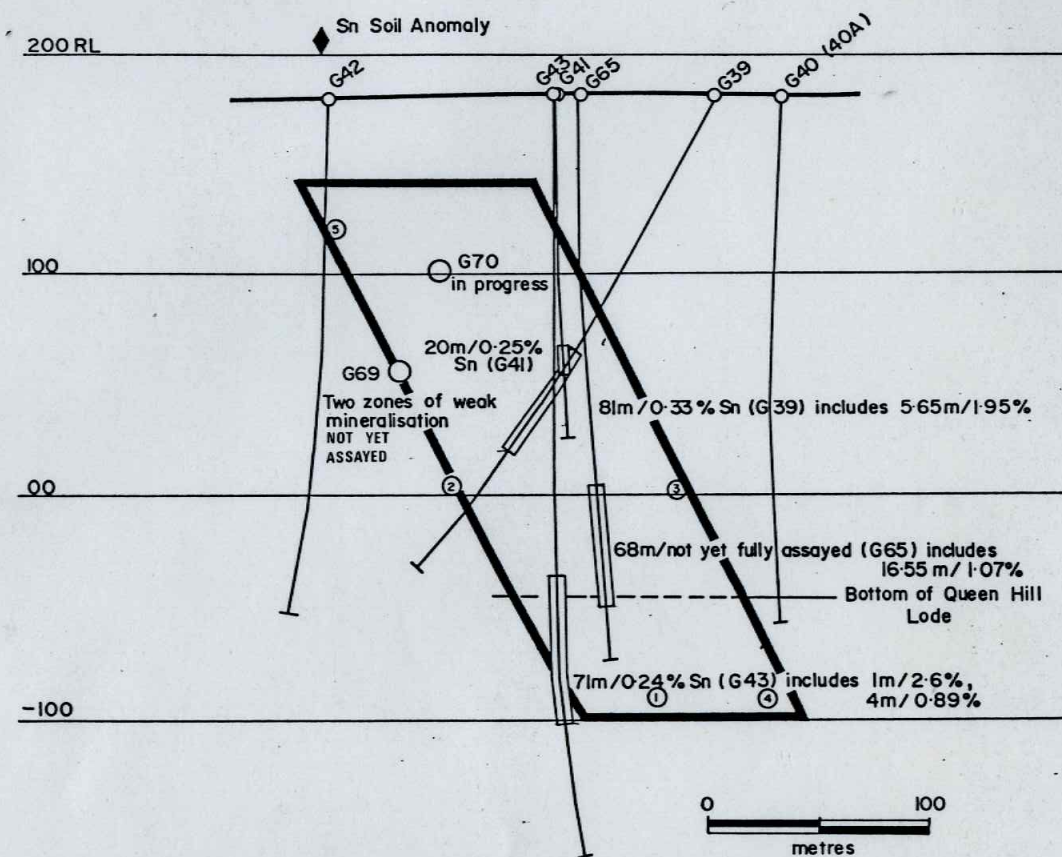


C.H. YOUNG.

Signed in his absence by: R.J. ELSON.

SEVERN

SUMMARY LONGITUDINAL PROJECTION



- Cassiterite - Sulphide mineralisation
- Potential for 500,000 Tonnes at >1% Sn, strike length 100m, width 5m, depth 250 m.
 There is also potential for a larger body of 3-5m Tonnes at > 0.3 % Sn
- Proposed exploration holes in order of priority

Date October 31, 1980.

Ref

To S.M. Richards,

From C.H. Young,

At Melbourne.

At Wynyard.

Copies to Adelaide files, S. Richardson.

Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEKS ENDING 23.10.80 AND 30.10.80

Hole G65 Severn

Core sawing for assay is nearing completion. Sawing of G41 will then commence.

Hole G67 Montana

Preliminary assay results are now to hand and the cassiterite sulphide fissure lode assays 3.34% tin over 8.0 m from 192.3 to 200.3 m.

Hole G68

This hole was completed at 186.7 m. No sulphide lode was intersected although the hole passed well beneath G21. It is possible the lode position has been moved by faulting. Reinterpretation is in progress.

Hole G69 Severn

Is in progress at 91 m.

Regards,

C. H. Young.

C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G67	2073.7	1219.4	181.2	289.3	-64.3	8.9.80	30.9.1980	223.5	2428.9	3520	192.3 - 200.3 m Vein Pyrite 60-80%, siderite, quartz gangue.	10	192.3-200.3 (8.0m) 3.34% Sn.
G68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	21.10.80	186.7	2615.6	Golf Course Lode	No significant sulphide mineralisation noted.	-	-
G69	1588.8	1022.7	183.5	270.9	-53.5	23.10.80	6.11.80	208.5	2824.1	2970	89.5 - 102.5 Pyrite-pyrrhotite veins, 3-5% with quartz veining. 165.0 - 170.1 Pyrite 5% locally 70% as veins.	104 45	
G70	1594.6	959.0	185.6	294.0	-48.0	10.11.80	17.11.80 progress at 158 m	151.2	2975.30	2970			
G71						26.11.80	4 m progress at 30.0 m			2980			

Correct G67

QUEEN HILL DRILLING

<u>HOLE NO.</u>	<u>COMMENCED</u>	<u>COMPLETED</u>	<u>DEPTH m</u>	<u>CUMULATIVE METRES</u>
G45	3. 9.79	21. 9.79	257.95	257.95
G46	7. 9.79	8.10.79	302.00	559.95
G47	23. 9.79	7.10.79	471.40	1031.35
G48	9.10.79	17.10.79	207.95	1239.30
G49	11.10.79	26.10.79	206.20	1445.50
G50	18.10.79	23.10.79	205.70	1651.20
G51	25.10.79	25.10.79	14.00	1665.20
G51B	26.10.79	8.11.79	277.40	1942.60
G52	29.10.79	16.11.79	183.00	2125.60
G53	12.11.79	22.11.79	421.00	2546.60

1980
START

G54	23.11.79	8. 1.80	270.70	2817.30
G55	27.11.79	10.12.80	511.30	3328.60
G56	13.12.79	21.12.79	283.20	3611.80
G57	5. 1.80	11. 1.80	307.40	3919.20
G58	11. 1.80	6. 2.80	292.00	4211.20
G59	17. 1.80	11. 2.80	216.00	4427.20

1880.6

NEW PROGRAMME:

G60	22. 2.80	23. 3.80	301.00	301.00
G60W	Abandoned	14. 5.80	8.00	309.00
G61	2. 4.80	29. 4.80	307.70	616.70
G62	30. 4.80	15. 5.80	256.20	872.90
G63	20. 5.80	24. 7.80	352.50	1225.40
G64	27. 5.80	29. 7.80	343.50	1568.90
G65	5. 8.80	3. 9.80	292.50	1861.40
G66	9. 8.80	16. 9.80	344.00	2205.40
G67	8. 9.80	30. 9.80	223.50	2428.90
G68	2.10.80	21. 10.80	186.70	2615.60
G69	23.10.80	6.11.80	208.5	2824.10
G70	10.11.80	IN PROGRESS AT 138 m.		2962.10

END PERIOD 1A. 1980

END YEAR.

G71

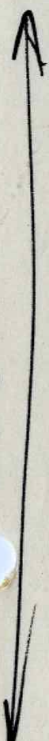
∴ TOTAL FOR YEAR = 4,842.7 m

4,812.0 to End P.11.

∴ Meters For Month P.12 =

30.7 m

2861



Date October 17, 1980. Ref
To S.M. Richards, From C.H. Young,
At Melbourne. At Wynyard.
Copies to Adelaide Files, S. Richardson. Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEK ENDING 16.10.1980

Please find attached a summary sheet and progress chart for the Queen Hill Drilling Programme.

Hole G41 Severn

Drill core from 215 to 245 m will be sawn for assay. The complete hole had previously been scanned by core grinding and the interval 120 to 142 m assayed 0.25% Sn. This interval appears to be significant in conjunction with G39 (81 m of 0.33%) G43 (71 m 0.24%) and G65 (68 m not yet fully assayed).

Hole G65 Severn

Core sawing for assay is in progress.

Hole G67 Montana

Core logging is in progress.

Hole G68 Golf Course Exploration Hole

This hole is in progress at 124 m in the Quartzite Slate group having passed out of the Quartzite at 73 m.

A work proposal for a further 5 holes (1350 m) at Severn was prepared.

Massive sulphide dump material from the New Mt. Zeehan mine, which is located approximately 600 m SW of the Aberfoyle Zeehan Office, assays up to 5.4% Sn.



Literature and data survey will be completed to help assess the potential of this mine.

Regards,

C.H. Young.

C.H. YOUNG.

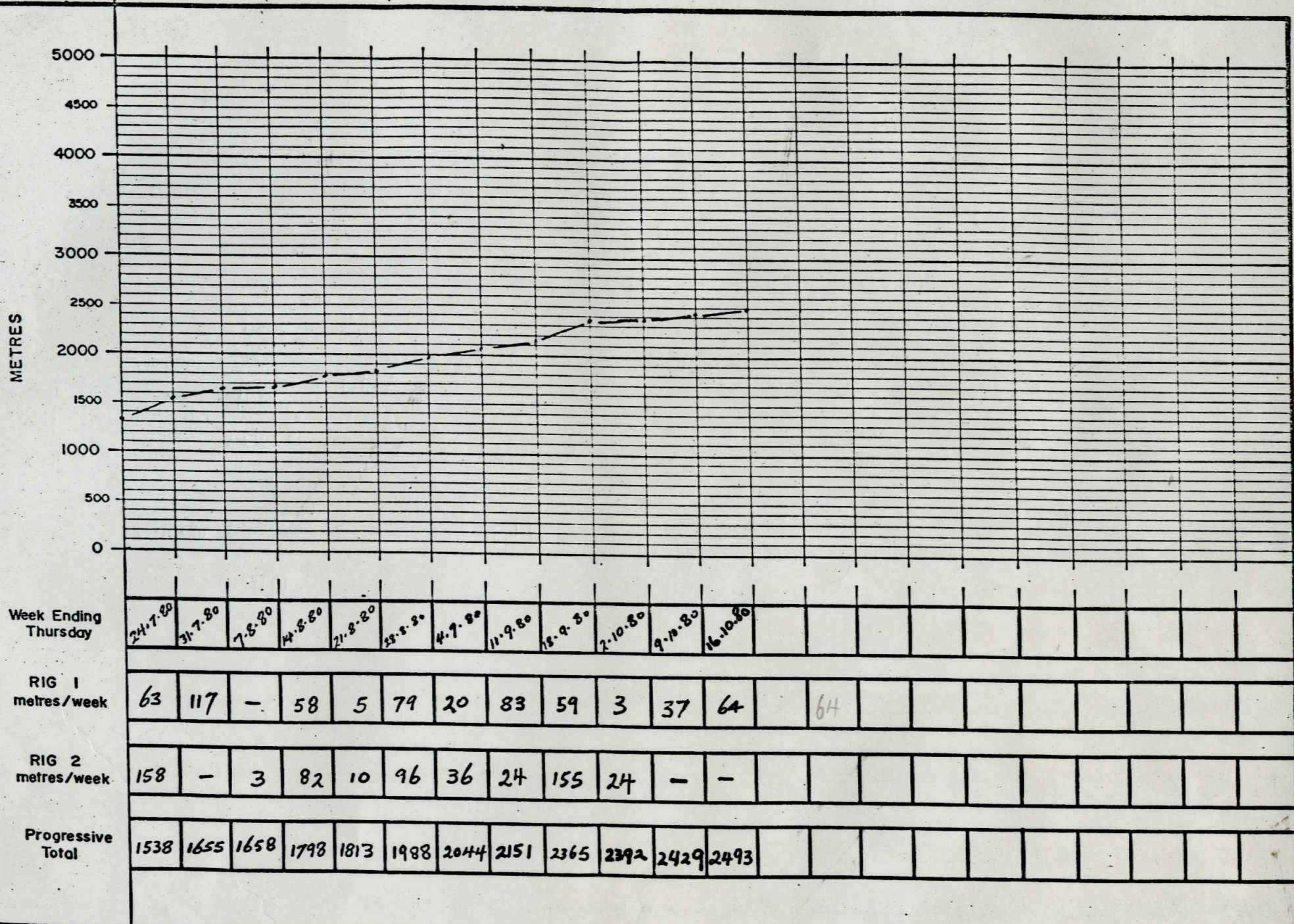
QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G67	2073.7	1219.4	181.2	289.3	-64.3	8.9.80	30.9.1980	223.5	2428.9	3520	192.3 - 200.3 ³ m Vein Pyrite 60-80%, siderite, quartz gangue.	10	Assay data not yet available. 192.3 - 200.3 (8.0m) 3.34% Sn
G68	1374.2	734.1	212.6	209.5	-41.0	210.80 2.10.80	 21.10.8.	186.7	2615.6	GOLF COURSE LODE	significant SULPHIDE NO MINERALISATION NOTED.	—	—
G69	1588.8	1022.7	183.5	270.9	-53.5°	23.10.80	 6.11.80	208.5	2824.1	2970	89.5-102.5. Pyrite-hydroxide, ^{veins} quartz ^{3-5% with} veins 165-170.1 Py s. locally 70 or veins.	104 +5	
G70	1594.6	958 959.0	185.6	294.0	-48.0	10.11.80		in progress at 138m		2970			

Drawn: R.J.E.
 Traced:
 Checked:
 Revised by: Date:

Abertoye Exploration Pty Ltd
QUEEN HILL
1980 DRILLING PROGRESS

Location code:
 Date: Nov. 1979
 Scale:
 Plate No



Date October 10, 1980.

Ref

To S.M. Richards,

From C.H. Young,
S.M. Richardson.

At Melbourne.

At Wynyard.

Copies to Adelaide files.

Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEKS ENDING 2.10.1980 AND 9.10.1980

Please find attached summary sheets, summary longitudinal projections and progress chart for the Queen Hill Drilling Programme.

Hole G64 Test near G46, south of Queen Hill.

Assay results for this hole are to hand and indicate a lack of significant mineralisation in this area (refer attached summary sheets).

Hole G65 Severn

The interpretation of a structurally controlled plunging body at Severn, with potential for 500,000 tonnes at greater than 1% Sn, was confirmed by this drill hole which intersected 16.55 m of 1.07% Sn.

The above intersection is part of a wider, less strongly mineralised, zone of veining and sulphide dissemination, extending from 202.05 m to 269.7 m, a total of 67.65 m. Assay data is available only for part of this zone. There is every likelihood that the G65 intersection will compare more than favourably with the G39 intersection of 5.65 m at 1.95% Sn which was part of an 81 m zone averaging 0.33% Sn. It appears that at Severn there is a large zone of stockwork sulphide veining which could have dimensions in the order of; 75 m x 50 m x 300 m, at a grade possibly >0.3% Sn. There is thus potential for an ore zone of 3.5 million tonnes at >0.3% Sn.

Core sawing and assaying is still in progress.

A work proposal has been prepared for drilling funds to demonstrate that the main zone of structurally controlled mineralisation at Severn has a dimension of at least 500,000 tonnes at a grade >1% Sn. The drill holes will also further evaluate the larger zone of lower grade mineralisation.

Hole G66 Test beneath G46 south of Queen Hill.

No significant intersection was achieved by this hole.

Drill Hole Exploration 2 designed to test to the north of G46 was postponed and the meterage of this hole is to be applied to the Severn area.

Hole G67 Montana Exploration Hole

This hole was completed at 223.5 m. A 7.7 m pyrite/siderite/quartz lode with pyrite 60-80% was intersected in the target area.

Assay data is not yet available.

A summary log is as follows:-

- 0 - 177.0 m Interbedded mudstone, dolomite and tuff.
- 177.0 - 192.3 m Grey dolomitic siltstone, brecciated below 182.3 m and sideritic below 186.0 m.
- 192.3 - 200.0 m Pyrite 60-80% as a pyrite/siderite/quartz lode.
- 200.0 - 207.9 m Brecciated sideritic dolomite.
- 207.9 - 223.5 m Interbedded cream and light grey mudstone.

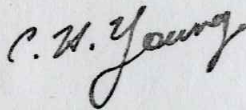
Hole G68 Golf Course Exploration Hole.

This hole is in progress at 64.0 m, in quartzite. Progress is slow due to broken ground.

Only one rig is now in operation on the drilling programme.

Two short holes are planned to test the shallower extension of the Severn lode. These holes will be part of the current work proposal meterage (Exploration 2).

Regards,



C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth ' m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G63	1779.75	922.69	218.24	286.25 <i>286.25</i>	-55.25	20.5.80	24.7.80	352.5	1225.4	3150	286.25 - 289.4 m Queen Hill lode position. 40-50% Pyrite as disseminations veins and a vein network.	-11	286.25 - 289.4 m 2.39% Sn.
G64	1460.9	660.75	230.9	281.0	-62.75	27.5.80	29.7.80	343.5	1568.9	2720	184.5 - 185.4 m, 50% pyrite quartz lode. 224.2 - 225.35m, 60% pyrite, siderite, quartz lode. 237.2 - 239.61m, 60% pyrite, siderite lode.	50 32 18	184.5 - 185.4 m (0.9m) 0.29% Sn. 224.2 - 225.35 m (1.15m) 0.28% Sn. 237.2 - 239.61 m. (2.41m) 0.14% Sn.
G65	1581.5	1138.0	182.0	239.1	-60.1	5.8.80	3.9.80	292.5	1861.4	3055	248.95-257.5 m, 5-20% pyrite as veins and disseminations locally coarse grained. 257.5-262.1 m, 40-70% pyrrhotite/ pyrite as veins. 262.1-265.5 m, 5-15% pyrite as veins.	-40	248.95 - 265.5 m (16.55m) 1.07% Sn. Including 257.5 to 262.1 (4.6m) 2.76% Sn.
G66	1534.03	779.3	213.84	280.4	-59.8	9.8.80	16.9.80	344.0	2205.4	2840	306.2-306.8 m, 40% pyrite vein.	-40	Assay data not yet available.

QUEEN HILL — Diamond Drilling Summary

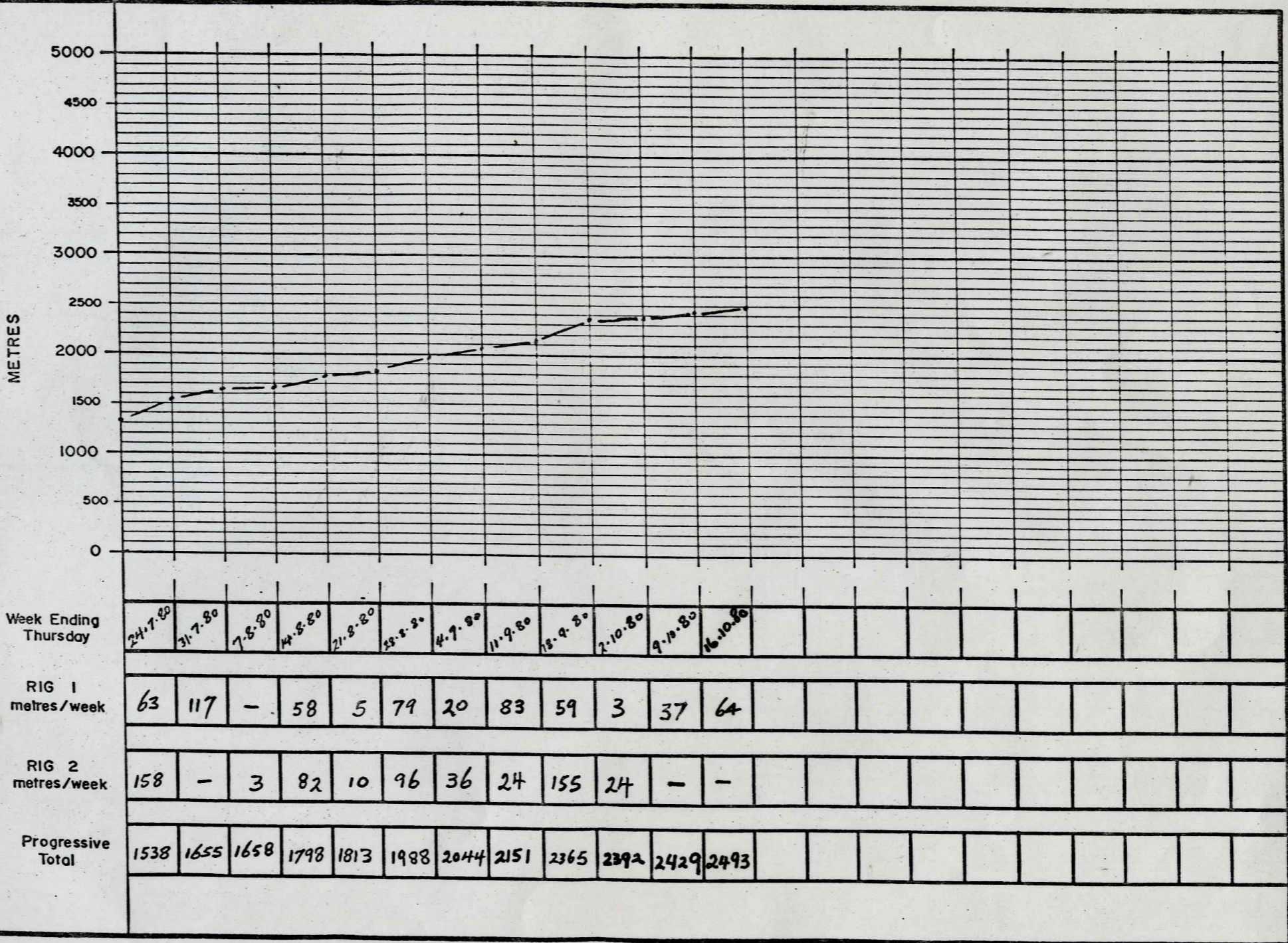
D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth ' m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G67	2073.7	1219.4	181.2	289.3	-64.3	8.9.80	30.9.1980	223.5	2428.9	3520	192.3 - 200.0 m Vein Pyrite 60-80%, siderite, quartz gangue.	10	Assay data not yet available.
G68	1374.2	734.1	212.6	209.5	-41.0	2.10.80	In progress at 60 m 124 m						

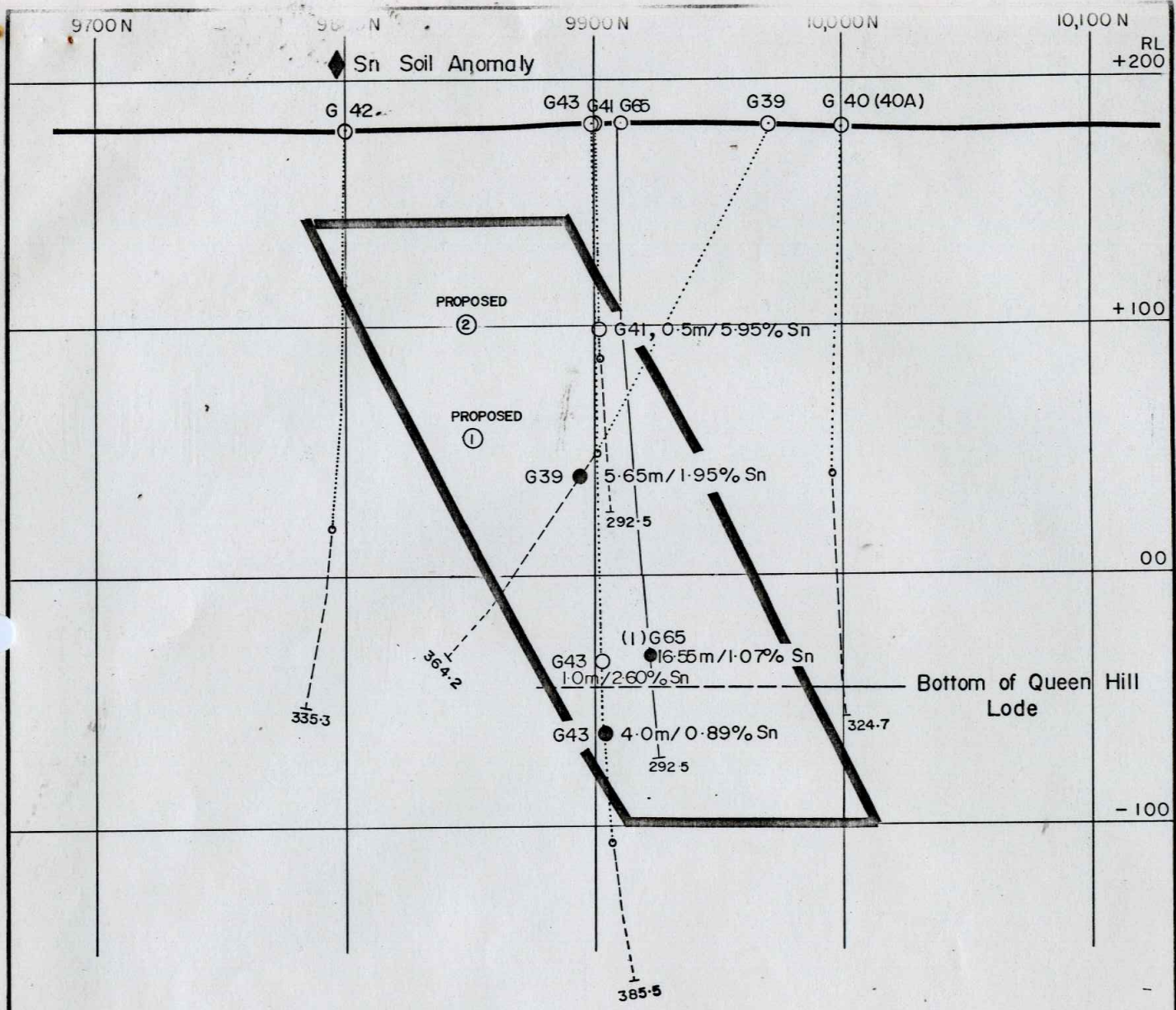
Drawn: R.J.E.
 Traced:
 Checked:
 Revised By: Date:

1980 DRILLING PROGRESS
QUEEN HILL

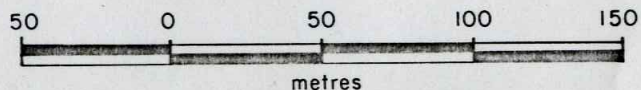
Location code:
 Date: Nov. 1979
 Scale:
 Plate No:

Aberfoyle Exploration Pty Ltd



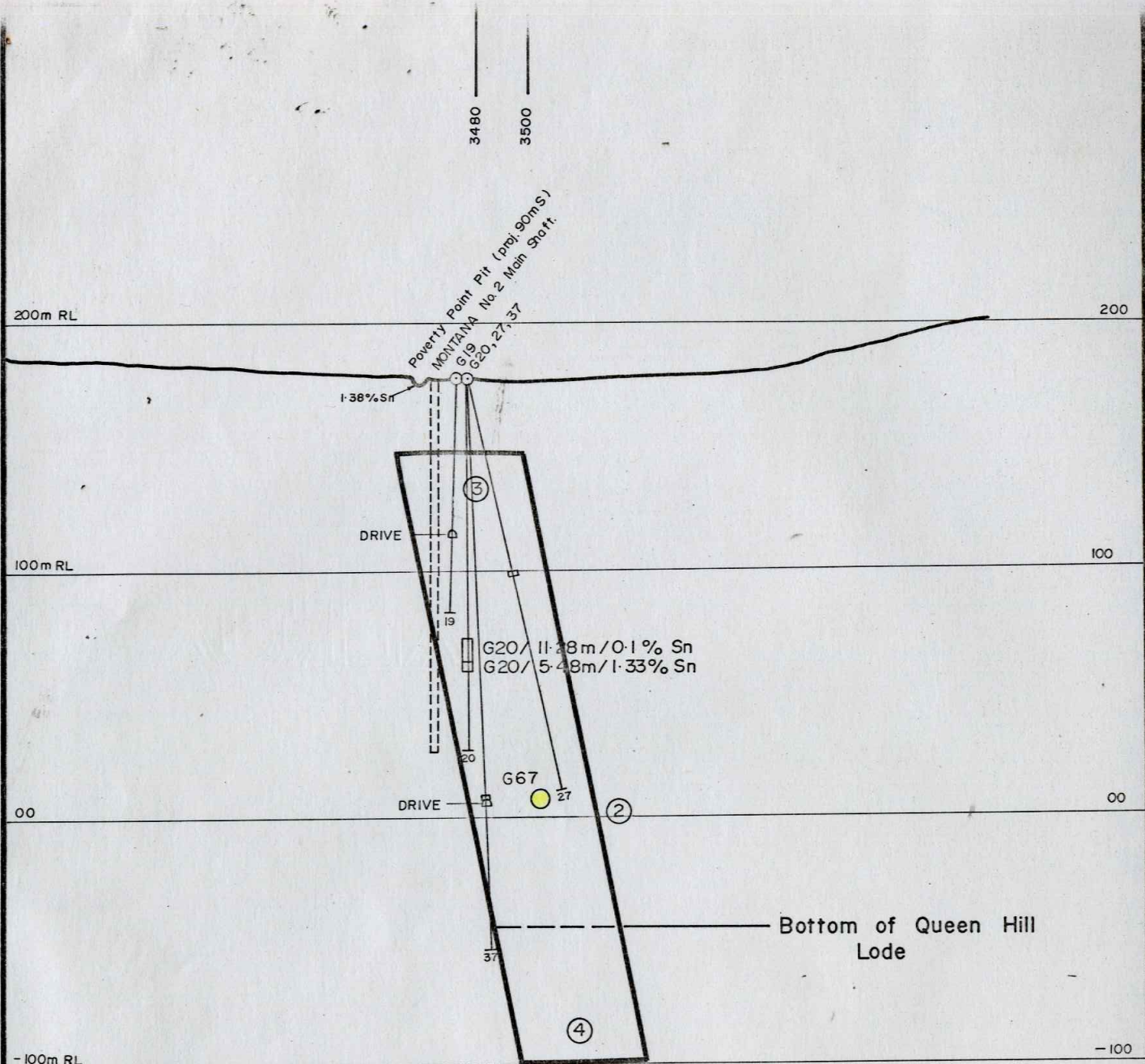


- Fissure Lode Cassiterite sulphide intersection
- ▭ Potential for 500,000 Tonnes at >1% Sn, strike length 100m, width 5m, depth 250m.
- ③ Proposed exploration holes in order of Priority.
- Projected from behind section
- Projected from in front of section



Abminco Exploration

Drawn:	NORTH WEST TASMANIA QUEEN HILL, SEVERN AREA Longitudinal Projection Reference Plane 9850 E, Looking West	Location code: K55/5/50
Traced: JJB		Date: Aug 1977
Checked:		Scale: 1:2500
Revised by: Date		Plate No QH 83



□ Cassiterite - Sulphide bearing fissure lode strikes at 070° mag. ie at 60° to this projection.

▭ Potential for 500,000 Tonnes at >1% Sn, strike length 100m, width 5m, depth 250 m

③ Proposed exploration holes in order of priority. Assuming No.1 is successful

Aberfoyle Exploration Pty Ltd

Drawn: R. J. E.	NORTH WEST TASMANIA	Location code:
Traced:	MONTANA	Date: June, 1980
Checked:	Summary Longitudinal Projection	Scale: 1:2,500
Revised by: Date:	(along Eastern Ref. Plane)	Plate No: QH 158

Date September 24, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEK ENDING 18.9.1980

Please find attached summary sheets, summary longitudinal projections and progress chart for the Queen Hill Drilling Programme.

Hole G66 Exploration 3. Test beneath G46

This hole was completed at 344 m in volcanics. No significant intersection was achieved.

Summary log is as follows:

0	-	287.0 m	Quartzite slate group.
287.0	-	306.2 m	Pyritic mudstones, dolomite and black carbonaceous shales.
306.2	-	344.0 m	Volcanics.

Mineralisation:-

306.2	-	306.8 m	Py 40% as a vein.
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Exploration 3

This hole was designed to test adjacent to the G46 intersection, however due to the lack of mineralisation in G66, it was decided not to drill the hole.

G67 Montana Exploration hole

This hole is in progress at 160 m. The target area is shown on the attached longitudinal projection.

G68 Golf Course Exploration Hole

It is anticipated this hole will commence on about 25.9.1980. The delay is due to lack of drilling personnel.

Regards,

C. H. Young.

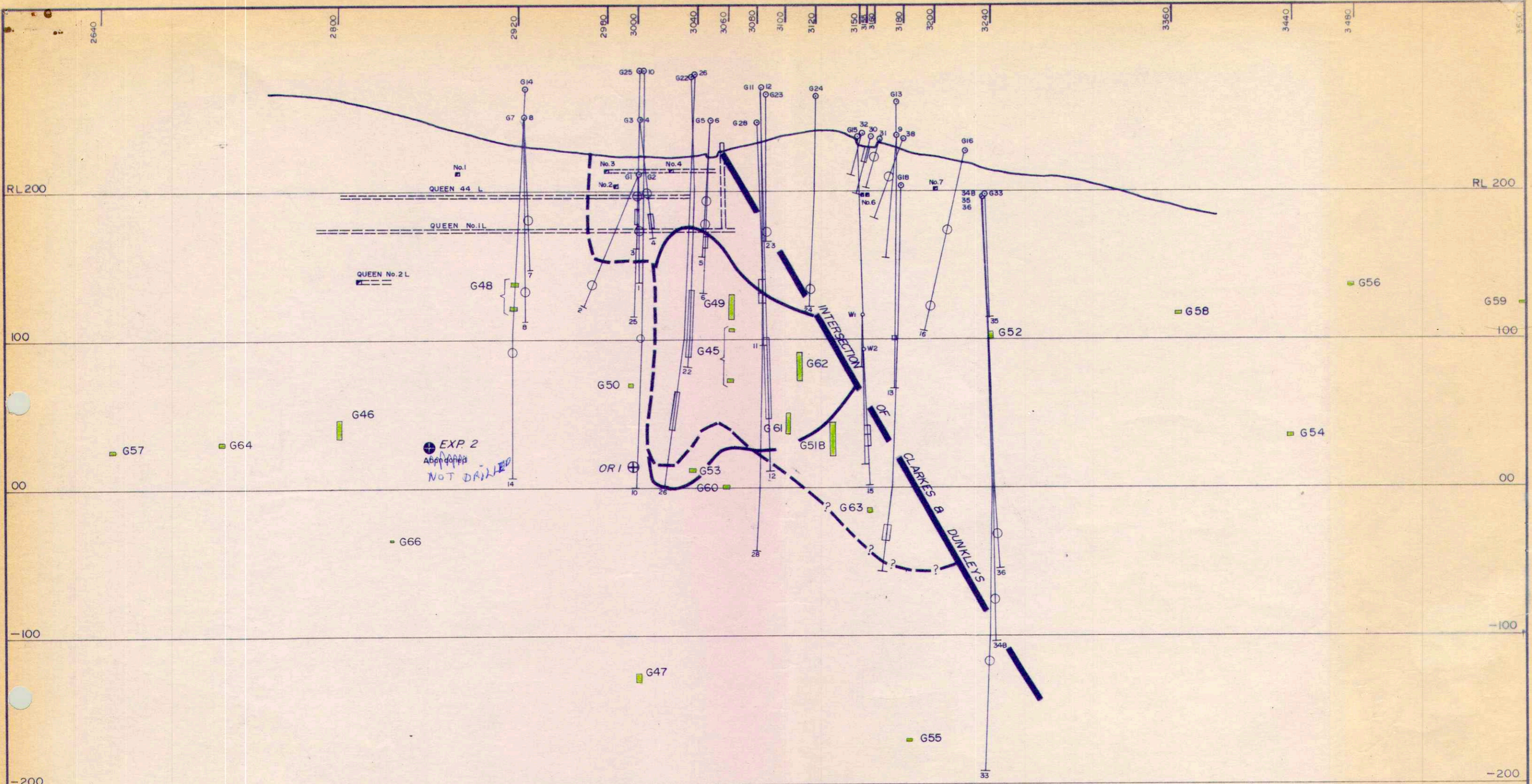
C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G63	1779.75	922.69	218.24	286.25	-55.25	20.5.80	24.7.80	352.5	1225.4	3150	286.25 - 289.4 m Queen Hill lode position. 40-50% Pyrite as disseminations veins and a vein network.	-11	286.25 - 289.4 m 2.39% Sn.
G64	1460.9	660.75	230.9	281.0	-62.75	27.5.80	29.7.80	343.5	1568.9	2720	184.5 - 185.4 m, 50% pyrite quartz lode.	50	<i>184.5-185.4m(0.9m) 0.29% Sn</i>
											224.2 - 225.8 ³⁵ m, 60% pyrite, siderite, quartz lode.	32	<i>224.2-225.35m(1.15m) 0.28% Sn</i>
											237.2 ² - 239.61m, 60% pyrite, siderite lode.	18	<i>237.2-239.61m (2.41m) 0.14% Sn</i>
G65	1581.5	1138.0	182.0	239.1	-60.1	5.8.80	3.9.80	292.5	1861.4	3055	248.9 ⁵ - 257.5 m, 5-20% pyrite as veins and disseminations locally coarse grained. 257.5-262.1 m, 40-70% pyrrhotite/ pyrite as veins. 262.1-265.4 ⁵ m, 5-15% pyrite as veins.	-40	Assay data not yet available. <i>248.95-265.5m (16.55m) 1.07% Sn Including 257.5 to 262.1 (4.6m) 2.76% Sn</i>
G66	1534.03	779.3	213.84	280.4	-59.8	9.8.80	16.9.80	344.0	2205.4	2840	306.2-306.8 m, 40% pyrite vein.	-40	Assay data not yet available.

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G67	2073.7	1219.4	181.2	289.3	-64.3	8.9.80	In progress at 160 m. 30.9.80	223.5	2428.9	3520	182.3 - 200.0 m Vein Pyrite 60-80%, siderite, quartz gangue.	10	Assay data not yet available
G68							In progress at 60 m						



- LEGEND —
- Hole completed
 - Ore Reserve hole proposed
 - Exploration hole proposed
 - Queen Hill Lode (Interpreted outline only)
 - Inner Lode (Interpreted outline only)

Week Ending 18/9/80

Aberfoyle Exploration Pty Ltd

Geology:
 Drawn: R.J.E.
 Traced: R.J.E.
 Checked:
 Revised by: R.J.E. Date: APRIL, 80

NORTH WEST TASMANIA
QUEEN HILL
 SUMMARY LONGITUDINAL PROJECTION
 1980 DRILL PROGRAMME

Location code:
 Date: April, 1980
 Scale: 1:2500
 Plate No
 QH 147

Date September 12, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEKS ENDING 28.8.1980, 4.9.1980 AND 11.9.1980.

Please find attached summary sheets, summary longitudinal projections and progress chart for the Queen Hill Drilling Programme.

All assay data for G63 is now to hand. The main intersection is that reported on 22.8.1980 of 2.39% Sn over 3.15 m in the Queen Hill lode position (286.25 - 289.4 m).

There is also 0.73% Sn over 1.7 m in the Inner Lode position (341.0 to 342.7 m).

Hole G65 Severn Exploration Hole

This hole was completed on 3.9.1980 at 292.5 m.

The hole was designed to test the structural interpretation and a significant pyrite-pyrrhotite veined interval was intersected between 248.95 and 264.45 m (15.5 m). The interval includes some barren zones (up to 2.5 m) but also some zones of semi massive to massive sulphide, totaling approximately 4.6 m. There appears to be some visible cassiterite throughout most of the interval and assay results are awaited with some interest.

The position of the intersection is shown on the attached longitudinal section.

Hole G66

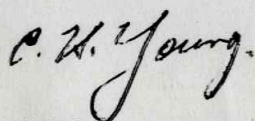
This hole is in progress at 275 m in the Quartzite Slate sequence. The target zone should be within the interval 280 - 320 m.

Hole G67 Montana Exploration Hole

This hole commenced on 8.9.1980 and is in progress at 15 m.

The target area is shown on the attached longitudinal projection.

Regards,



C.H. YOUNG.



Aberfoyle Exploration Pty Ltd

Drawn: R.J.E.

Traced:

Checked:

Revised by:

Location code:

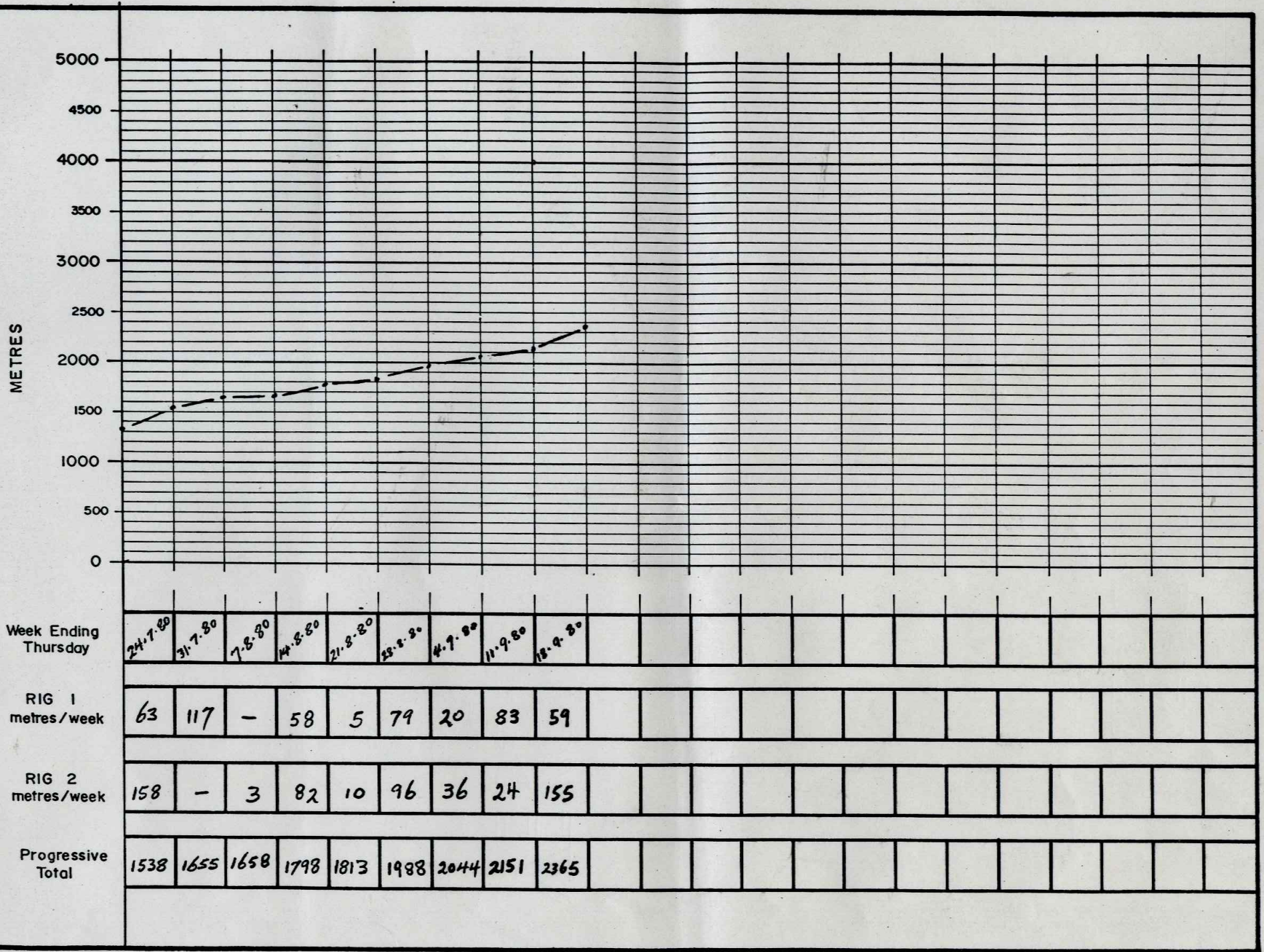
Date: Nov. 1979

Scale:

Plate No.

QUEEN HILL

1980 DRILLING PROGRESS



Aberfoyle Exploration Pty Ltd

Drawn: R.J.E.

Traced:

Checked:

Revised by: Date:

QUEEN HILL

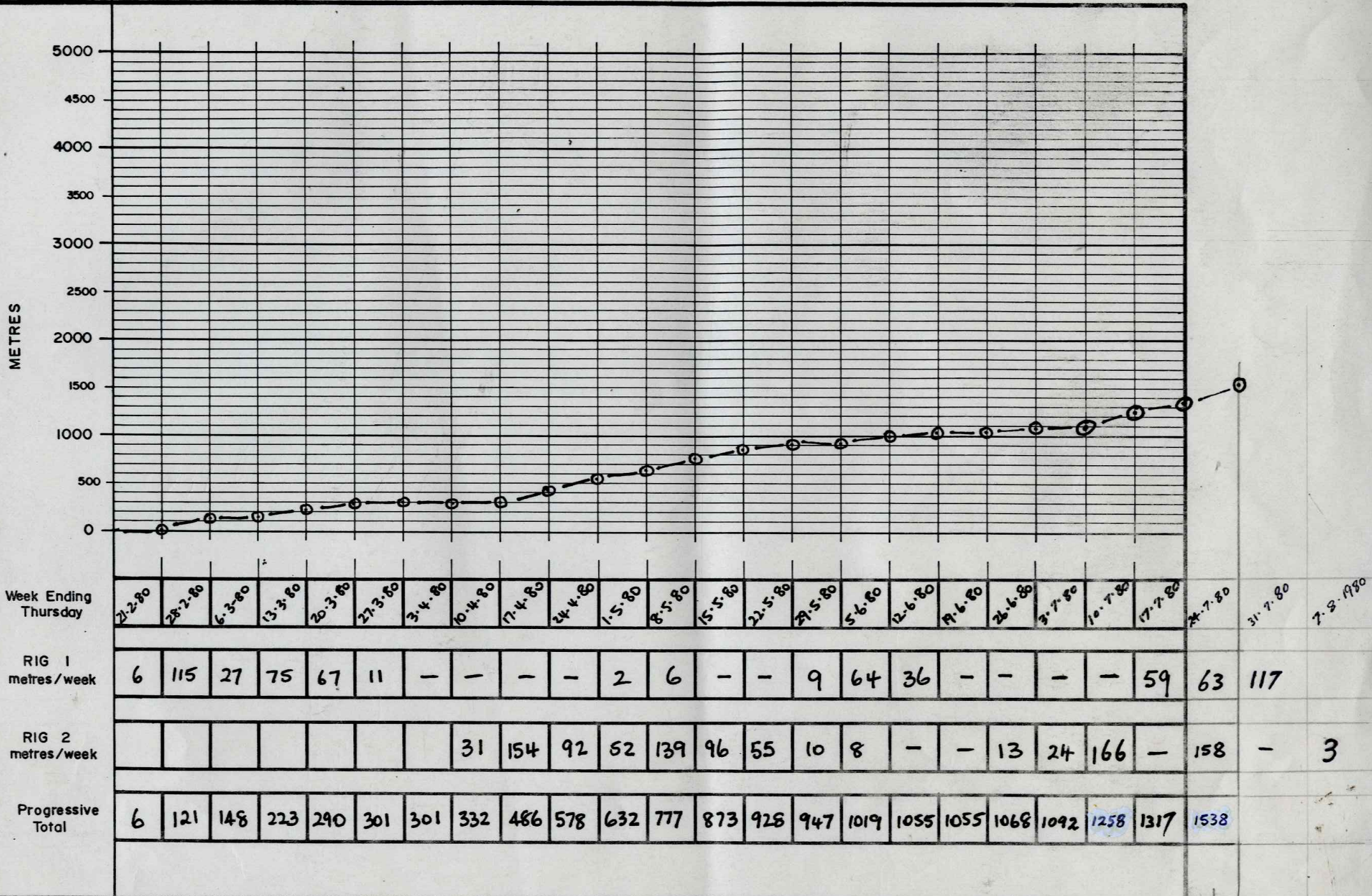
1980 DRILLING PROGRESS

Location code:

Date: Nov. 1979

Scale:

Plate No



Date August 22, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards

Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEKS ENDING 14.8.1980
AND 21.8.1980

Please find attached summary sheets, summary longitudinal projection and progress chart for the Queen Hill Drilling Programme.

Some assay results are now available for ore reserve hole G63. In the Queen Hill Lode position from 286.25 - 289.4 m, there is 2.39% Sn over 3.15 m.

Hole G65 Severn Exploration Hole

This hole is in progress at 140 m. and has traversed through a sequence of shales and tuffaceous greywackes of the Crimson Creek Formation. Ground conditions are generally very poor with numerous zones of soft ground.

Hole G66 Exploration Hole 3 (near G46)

This hole commenced on 9.8.1980 and is in progress at 105 m in quartzite.

Regards,

C. H. Young

C.H. YOUNG.

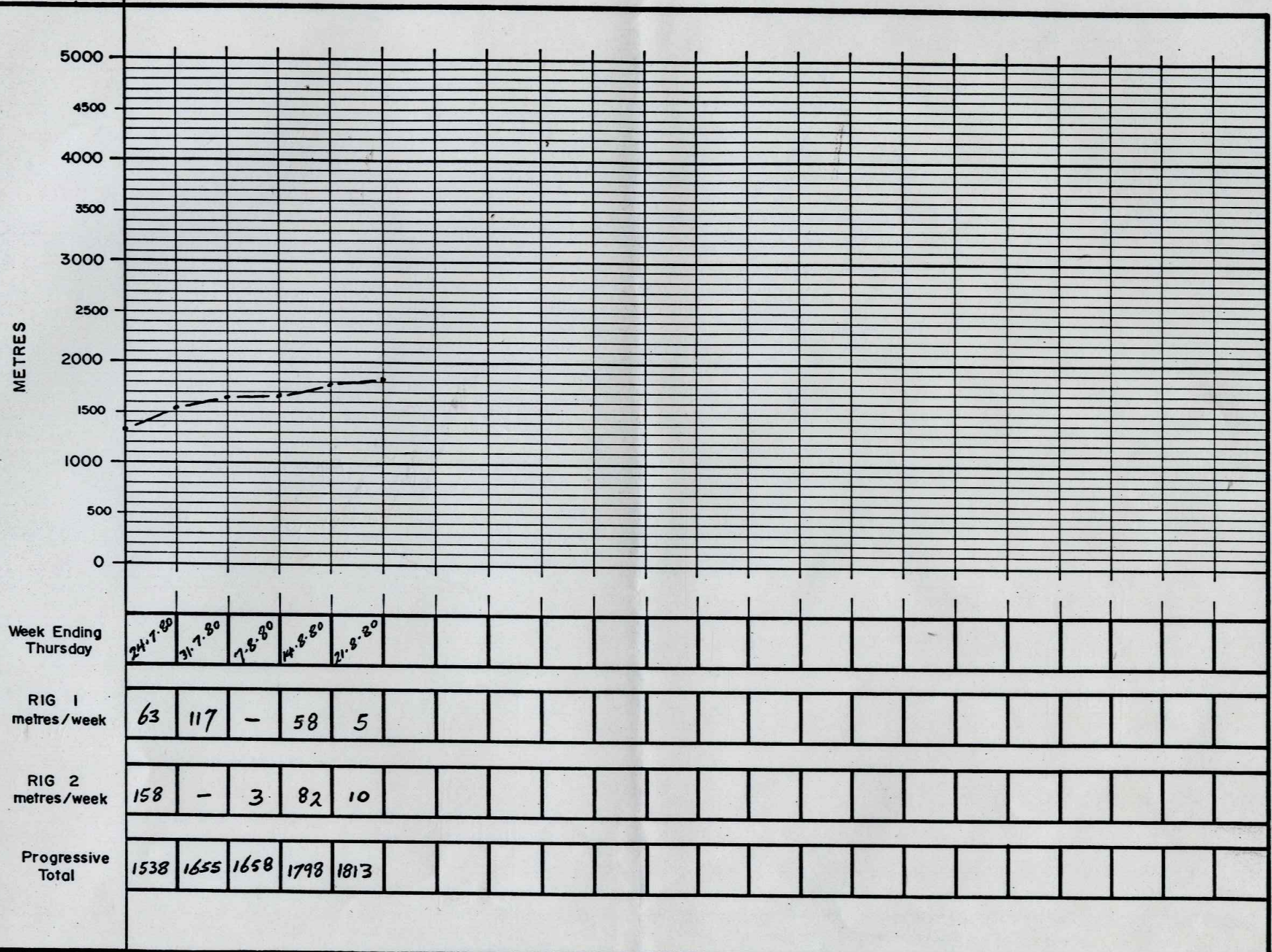
QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G63	1779.75	922.69	218.24	286.25	-55.25	20.5.80	24.7.80	352.5	1225.4	3150	286.25 - 289.4 m Queen Hill lode position. 40-50% Pyrite as disseminations veins and a vein network.	-11	286.25 - 289.4 m 2.39% Sn.
G64	1460.9	660.75	230.9	281.0	-62.75	27.5.80	29.7.80	343.5	1568.9	2720	184.5 - 185.4 m, 50% pyrite quartz lode. 224.2 - 226.6 m, 60% pyrite, siderite, quartz lode. 237.3 - 239.6 m, 60% pyrite, siderite lode.	50 32 18	Assay data not yet available.
G65	1581.5	1138.0	182.0	239.1	-60.1	5.8.80	In progress at 140 m. 3.9.80	292.5	1861.4	3055			
G66	1534.03	779.3	213.84	280.4	-59.8	9.8.80	In progress at 105 m. 275 m			2840			
G67						8.9.80	In progress at 15 m			3520			

Drawn: R.J. E.
 Traced:
 Checked:
 Revised by: Date:

Aberfoyle Exploration Pty Ltd
QUEEN HILL
1980 DRILLING PROGRESS

Location code:
 Date: Nov. 1979
 Scale:
 Plate No



Date August 11, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEKS ENDING 31.7.1980 AND 7.8.1980

Please find attached summary sheets and progress chart for the Queen Hill Drilling Programme.

Assay results are now available for ore reserve hole G62. In the Clarkes lode position (203.0 - 207.65 m) there is 0.3% Sn over 4.65 m and in the Queen Hill lode position (207.65 - 232.3 m) 1.14% Sn over 24.65 m.

Hole G64 Exp 1

This hole was completed on 29.7.1980 at 343.5 m.

Quartz siderite pyrite lodes 1-2 m wide occur in the interval 224.2 - 239.6 m and appear to correlate with the G46 intersection position.

No further mineralisation was noted in the final 102 m of the hole and the hole was stopped in black carbonaceous shale, before it reached the volcanic contact.

Hole G65 Severn Exploration Hole

Commenced on 5.8.1980 and is in progress at 15 m.

Hole G66 Exp 3 (near G46)

This hole is due to commence on 9.8.1980.

Regards,

C. H. Young

C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

Commence - Work Proposal A80/19

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G60	1858.9	552.6	208.3	102.7	-50.5	22.2.80	23.3.80	301.0	301.0	3080	228.15-228.85 Pyritic fissure lode, pyrite 70%. 269.0-271.65 Sideritic fissure lode with minor sphalerite and galena, 5% overall.	32 1	No significant Sn. 270.3-271.65 m 0.76% Sn.
G60W	Wedge off G60 at 128.0 m						Abandoned 14.5.80	136.0 8	309.0 137	3080			
G61	1777.5	854.47	246.78	284.0	-64.1	2.4.80	29.4.80	307.7	616.7	3100	222.7-225.9 m. Coarse grained veins and disseminations of pyrite, av. 25% (Clarks Lode). 226.2-239.8 m. Coarse grained veins and disseminations of pyrite 25% and pyritic fissure lode, Py. 50%. (Queen Hill Lode).	51 45	222.7-225.9 m. 0.27% Sn. 226.2-239.85 m. 1.2% Sn, includes 226.2-232.6, 2.245% Sn.
G62	Same collar as G61 1777.5 854.47		246.78	284.0	-55.0	30.4.80	15.5.80	256.2	872.9	3100	203.0-207.65 m Coarse grained veins and disseminations of pyrite, average 25% (Clarks Lode). 207.65-210.9 m Pyritic fissure lode, pyrite 20%. 216.25-232.3 m Replacement and vein network pyrite and pyrrhotite in dolomite and volcanics, average 35%. (Queen Hill Lode).	88 85 75	203.0-207.65 m 0.3% Sn. 207.65-232.3 m 1.14% Sn.

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G60									24.3.80	28.3.80	17.4.80	18.4.80	29.4.80	8.5.80
G60W									16.5.80	16.5.80	No Intersection			9.5.80
G61									26.4.80	5.5.80	29.5.80	30.5.80	26.6.80	10.5.80
G62									16.5.80	21.5.80	2. 6.80	3.6.80	6.8.80	11.5.80

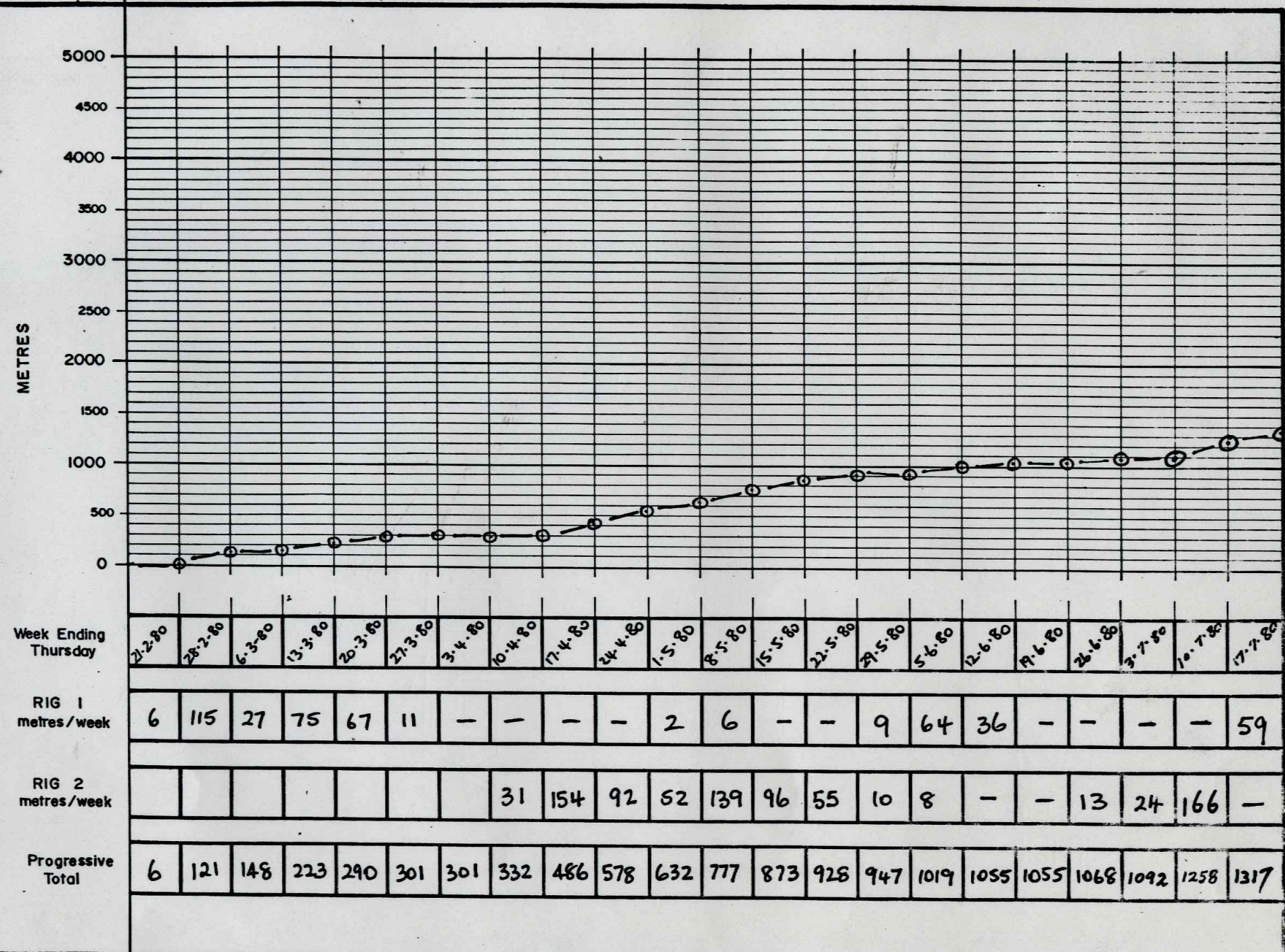
QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G63	1779.75	922.69	218.24	286.25	-55.25	20.5.80	24.7.80	352.5	1225.4	31 ⁵ / ₂₀	286.25 - 289.4 m Queen Hill lode position. 40-50% Pyrite as disseminations veins and a vein network.	-15	Assay data not yet available. <i>286.25-289.4 m</i> <i>2.37% Sn.</i>
G64	1460.9	660.75	230.9	281.0	-62.75	27.5.80	29.7.80	343.5	1568.9	2720	184.5 - 185.4 m, 50% pyrite quartz lode. 224.2 - 226.6 m, 60% pyrite, siderite, quartz lode. 237.3 - 239.6 m, 60% pyrite, siderite lode.	50 32 18	Assay data not yet available.
G65	1581.5	1138.0	182.0	293.1	-60.1	5.8.80	In progress at 15 m. 140m			3055			
G66						9.8.80	In progress at 105m			2840			

Drawn: R.J. E.
 Traced:
 Checked:
 Revised by: Date:

Abertoy's Exploration Pty Ltd
QUEEN HILL
1980 DRILLING PROGRESS

Location code:
 Date: Nov. 1979
 Scale:
 Plate No:



Date July 29, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME FOR WEEK ENDING 24.7.1980.

Please find attached summary sheets, summary longitudinal projection and progress chart for the Queen Hill drilling programme.

Hole G63 OR2

This hole was completed on 24.7.80 at 352.5 m.

A possible Clarkes lode position was intersected between 263.5 and 264.2 m and consists of pyritic veins, 50% pyrite overall, in a silicified Quartzite-Slate host.

The Queen Hill lode position was intersected between 286.25 and 289.4 m. From 286.25 to 287.85 m there are pyrite veins and weakly veined pyritic mudstone, pyrite 50-60%. From 287.85 to 289.4 there is an intense pyrite vein network, pyrite 50-60% in silicified dolomite. Some cassiterite was noted.

The Siltstone-Dolomite unit was traversed from 289.4 to 326.9 m. This unit is essentially barren of vein or replacement mineralisation although pyritic mudstones do occur.

At 326.9 m the main volcanic unit was reached and between 341.0 and 342.7 m there is fine to coarse grained, disseminated and vein network pyrite (30-40%) interpreted as the Inner Lode position.

This rig will move to commence the Severn exploration hole.

Hole G64 Exp.1

This hole is nearing completion and is currently at 313 m.

Summary log as follows:

0 - 244.2 m	Quartzite Slate Unit
244.2- 253.7 m	Andesitic tuff agglomerate
253.7- 263.0 m	Quartzite-slate
263.0- 268.0 m	Andesitic tuff agglomerate
268.0- 280.5 m	Quartzite-Slate
280.5- 286.5 m	Andesitic lava
286.5- 299.0 m	Quartzite-Slate
299.0- 306.5 m	Andesitic tuff agglomerate
306.5- 309.0 m	Quartzite Slate
309.0- 313.0 m	Andesitic tuff agglomerate

Quartz siderite pyritic lode mineralisation was intersected between 197 - 198 m, 204 - 206.5 m and 238.5 - 240.5 m (pyrite content of the lodes averages 40%). Trace stannite and galena was noted in the lower interval.

Between 223 and 241.5 m there is veined pyrite rich zone, about 5% Py. overall.

When this hole is completed the rig will move to commence exploration hole No. 3, below the G46 intersection.

Regards,

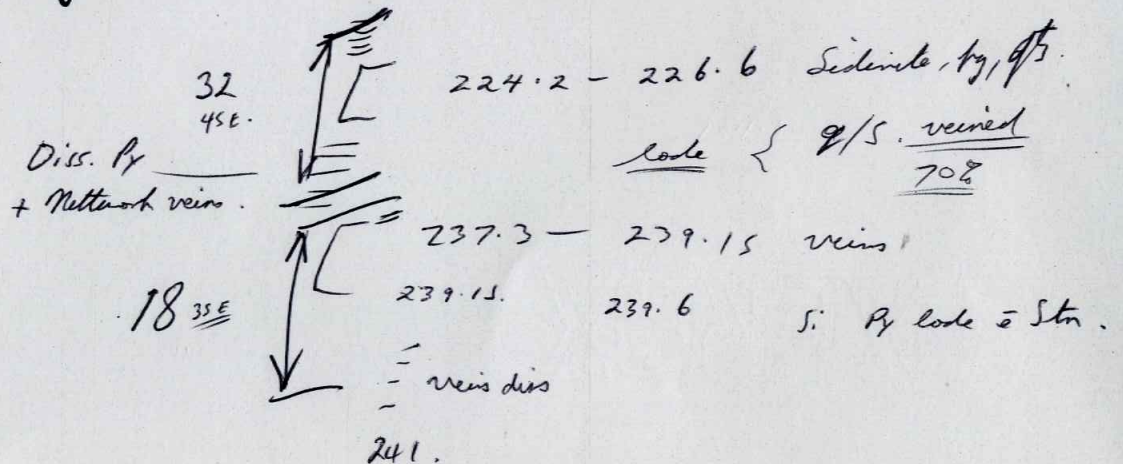
C.H. Young


RL
50
SSMEGR



184.5 - 185.4 - e.g. pyrite and g/s 40-95%

C.H. YOUNG.



 231 - 234m lower

QUEEN HILL — Diamond Drilling Summary

Commence Work Proposal A80/19

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G60	1858.9	552.6	208.3	102.7	-50.5	22.2.80	23.3.80	301.0	301.0	3080	228.15-228.85 Pyritic fissure lode, pyrite 70%. 269.0-271.65 Sideritic fissure lode with minor sphalerite and galena, 5% overall.	32 1	No significant Sn. 270.3-271.65 m 0.76% Sn.
G60W	Wedge off G60 at 128.0 m						Abandoned 14.5.80	136.0 8m.	309.0	3080			
G61	1777.5	854.47	246.78	284.0	-64.1	2.4.80	29.4.80	307.7	616.7	3100	222.7-225.9 m. Coarse grained veins and disseminations of pyrite, av. 25% (Clarks Lode). 226.2-239.8 m. Coarse grained veins and disseminations of pyrite 25% and pyritic fissure lode, Py. 50%. (Queen Hill Lode).	51 45	222.7-225.9 m. 0.27% Sn. 226.2-239.85 m. includes 1.2% Sn, includes 226.2-239.85 2.245% Sn. 226.2-232.6, 2.245% Sn
G62	Same collar as G61 1777.5	854.47	G61 246.78	284.0	-55.0	30.4.80	15.5.80	256.2	872.9	3100	203.0-207.65 m Coarse grained veins and disseminations of pyrite, average 25% (Clarks Lode). 207.65-210.9 m Pyritic fissure lode, pyrite 20%. 216.25-232.3 m Replacement and vein network pyrite and pyrrhotite in dolomite and volcanics, average 35%. (Queen Hill Lode).	88 85 75	203.0 - 207.65 m 0.3% Sn 207.65 - 232.3 m 1.14% Sn

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G60									24.3.80	28.3.80	17.4.80	18.4.80	29.4.80	8.5.80
G60W									16.5.80	16.5.80	No Intersection			9.5.80
G61									26.4.80	5.5.80	29.5.80	30.5.80	26.6.80	10.5.80
G62									16.5.80	21.5.80	2. 6.80	3.6.80	6.8.80	11.5.80

QUEEN HILL — Diamond Drilling Summary

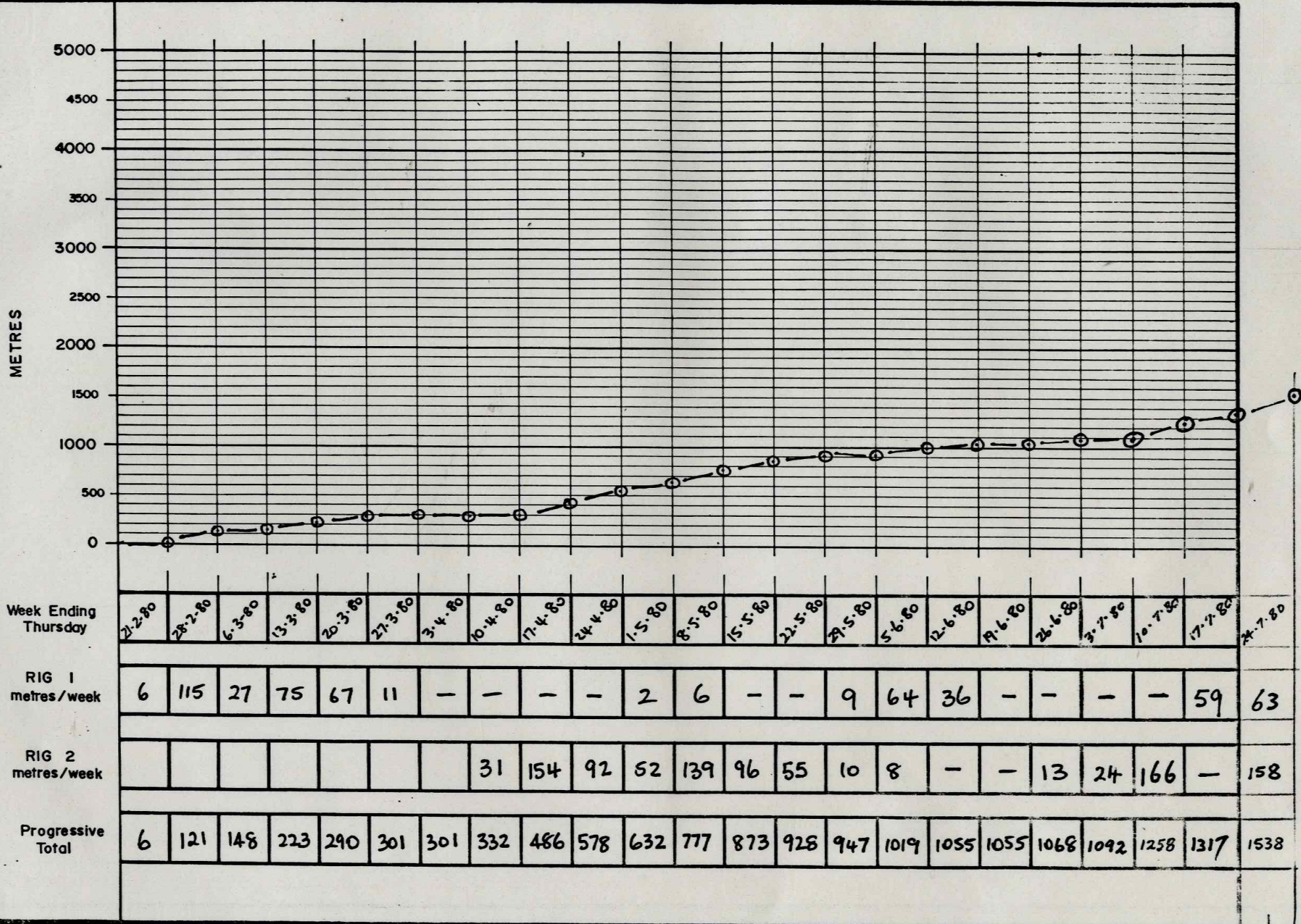
D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G63	1779.75	922.69	218.24	286.25	-55.25	20.5.80	24.7.80	352.5	1225.4	3120	286.25 - 289.4 m Queen Hill lode position. 40-50% Pyrite as disseminations veins and a vein network.	-11	Assay data not yet available.
G64	1460.9	660.75	230.9	281.0	-62.75	27.5.80	In progress at 313 m. 29.7.80	343.5	1568.9	2720	184.5 - 185.4 m ^{50%} quartz pyrite lode 224-2 - 226.6 m 60% pyrite, siderite, quartz lode, 32 237.3 - 239.6 m ^{60%} pyrite, siderite lode	50 32 18	Assay data not yet available.
G65						5.8.80	In progress at 15m.			3055			
G66						9.8.80				2840			

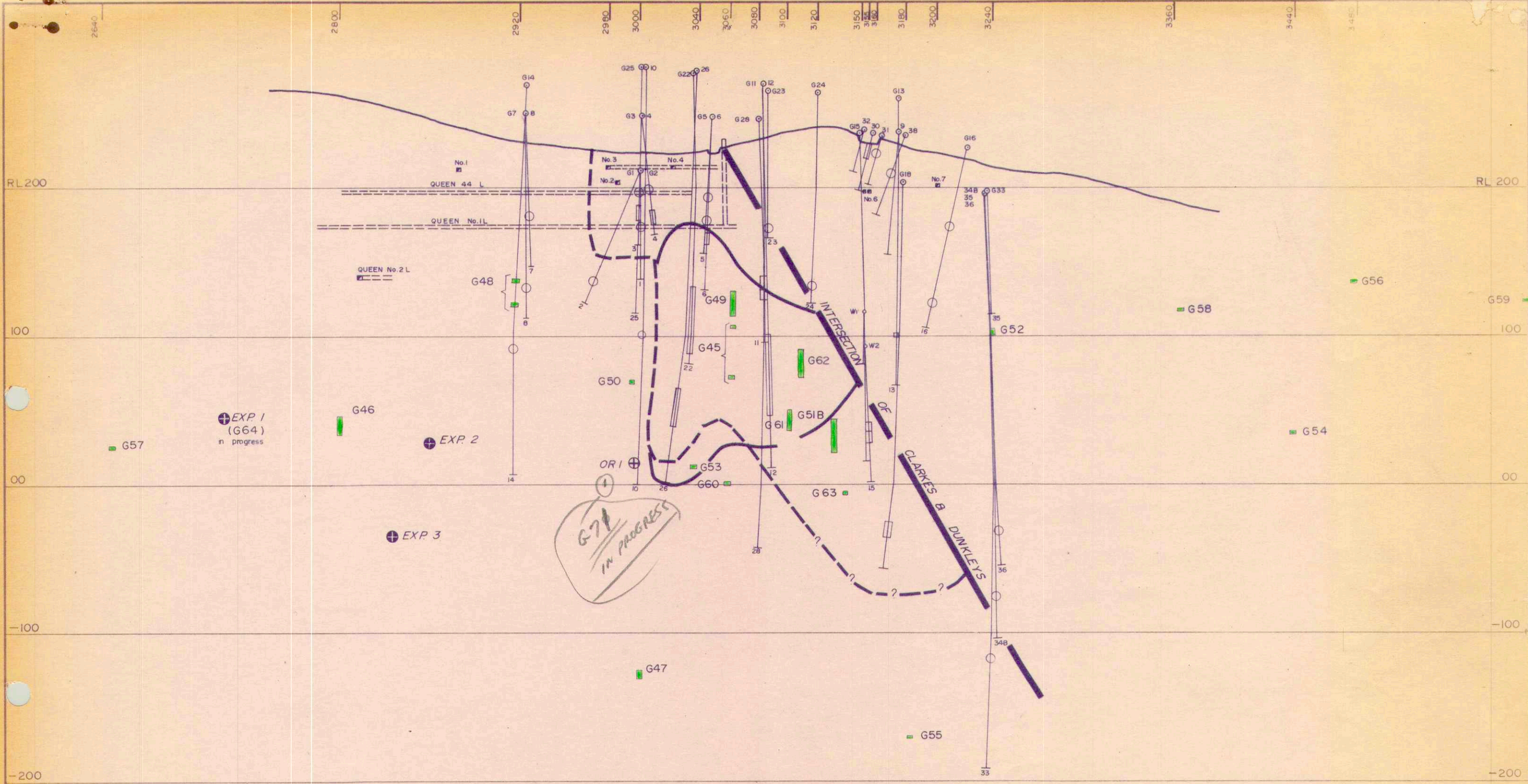
Drawn: R. J. E.
 Traced:
 Checked:
 Revised by:
 Date:

QUEEN HILL
1980 DRILLING PROGRESS

Location code:
 Date: Nov. 1979
 Scale:
 Plate No

Aberfoyle Exploration Pty Ltd

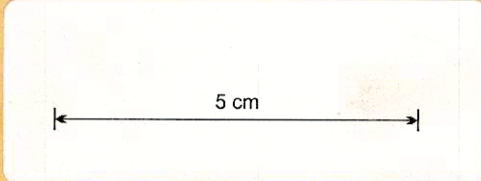




— LEGEND —

- Hole completed
- ⊕ Ore Reserve hole proposed
- ⊕ Exploration hole proposed
- Queen Hill Lode (Interpreted outline only)
- Inner Lode (Interpreted outline only)

Week Ending 24-7-80



Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA	
Drawn: R.J.E.	QUEEN HILL	
Traced: R.J.E.	SUMMARY LONGITUDINAL PROJECTION	
Checked:	1980 DRILL PROGRAMME	
Revised by: R.J.E. Date: APRIL, 80		Location code:
		Date: April, 1980
		Scale: 1:2500
		Plate No: QH 147

Date July 18, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME REPORT FOR WEEKS ENDING 3rd, 10th AND 17.7.1980.

Please find attached summary sheets and progress chart for the Queen Hill Drilling Programme.

HOLE G63 QR2

This hole is nearing completion and is currently at 289 m.

Summary log as follows:

0 - 96.9 Quartzite
96.9 - 266.7 Quartzite Slate sequence
266.7 - 280.0 Internal volcanic unit
280.0 - 286.2 Black shale
286.2 - Queen Hill lode 40-50% veined and disseminated sulphide.

When this hole is completed the rig will move to section 2840 and commence the last two exploration holes in the vicinity of G46.

It is anticipated that plans and sections for ore reserve assessment will be complete by mid-August.

HOLE G64 Exp.1

This hole is in progress at 155.0 m.

Summary log as follows:

0 - 155.0 Quartzite slate sequence.

When this hole is complete the rig will be moved to commence the Montana Exploration hole.

HOLE G61

All assay data is now to hand. This ore reserve hole achieved an intersection of 1.20% Sn over 13.65 m, from 226.2 to 239.85 m, including 2.24% Sn over 6.4 m from 226.2 to 232.6 m.

Special Note: The values reported above include a 1 m interval at 6% Sn, in weakly mineralised dolomite. This interval is being check assayed.

The Clarkes Lode position assayed 0.27% Sn over 3.2 m from 222.7 to 225.9 m.

There is also 1.26% Sn over 1.3 m from 118.4 to 119.7 m in the Taylors Lode position.

HOLE G62

No assay data available.

Regards,

C. H. Young

C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

Commence Work Proposal A80/19

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G60	1858.9	552.6	208.3	102.7	-50.5	22.2.80	23.3.80	301.0	301.0	3080	228.15-228.85 Pyritic fissure lode, pyrite 70%. 269.0-271.65 Sideritic fissure lode with minor sphalerite and galena, 5% overall.	32 1	No significant Sn. 270.3-271.65 m 0.76% Sn.
G60W	Wedge off G60 at 128.0 m						Abandoned 14.5.80	136.0 <u>8</u>	309.0	3080			
G61	1777.5	854.47	246.78	284.0	-64.1	2.4.80	29.4.80	307.7	616.7	3100	222.7-225.9 m. Coarse grained veins and disseminations of pyrite, av. 25% (Clarke's Lode). 226.2-239.8 m. Coarse grained veins and disseminations of pyrite 25% and pyritic fissure lode, Py. 50%. (Queen Hill Lode).	51 45	222.7-225.9 m. 0.27% Sn. 226.2-239.85 m. 1.2% Sn, includes 226.2-239.85 2.245% Sn.
G62	Same collar as 1777.5	Same collar as 854.47	G61 246.78	284.0	-55.0	30.4.80	15.5.80	256.2	872.9	3100	203.5-207.65 m Coarse grained veins and disseminations of pyrite, average 25% (Clarke's Lode). 207.65-210.9 m Pyritic fissure lode, pyrite 20%. 216.25-232.3 m Replacement and vein network pyrite and pyrrhotite in dolomite and volcanics, average 35%. (Queen Hill Lode).	88 85 75	Assay data not yet available.

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G60									24.3.80	28.3.80	17.4.80	18.4.80	29.4.80	8.5.80
G60W									16.5.80	16.5.80	No Intersection			9.5.80
G61									26.4.80	5.5.80	29.5.80	30.5.80	26.6.80	10.5.80
G62									16.5.80	21.5.80	2. 6.80	3.6.80		11.5.80

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G63	1779.75	922.69	218.24	286.25	-55.25	20.5.80	In progress at 280 m. 24.7.80	352.5	1225.4	3120	286.25-289.4 m. Queen Hill local facies. 40-50% Pyrite as massive disseminations veins and a vein network.	-11	Assay data not yet available.
G64	1460.9	660.75	230.9	281.0	-62.75	27.5.80	In progress at 155 m. 313 M			2720			

Aberfoyle Exploration Pty Ltd

QUEEN HILL

1980 DRILLING PROGRESS

Drawn: R.J. E.

Traced:

Checked:

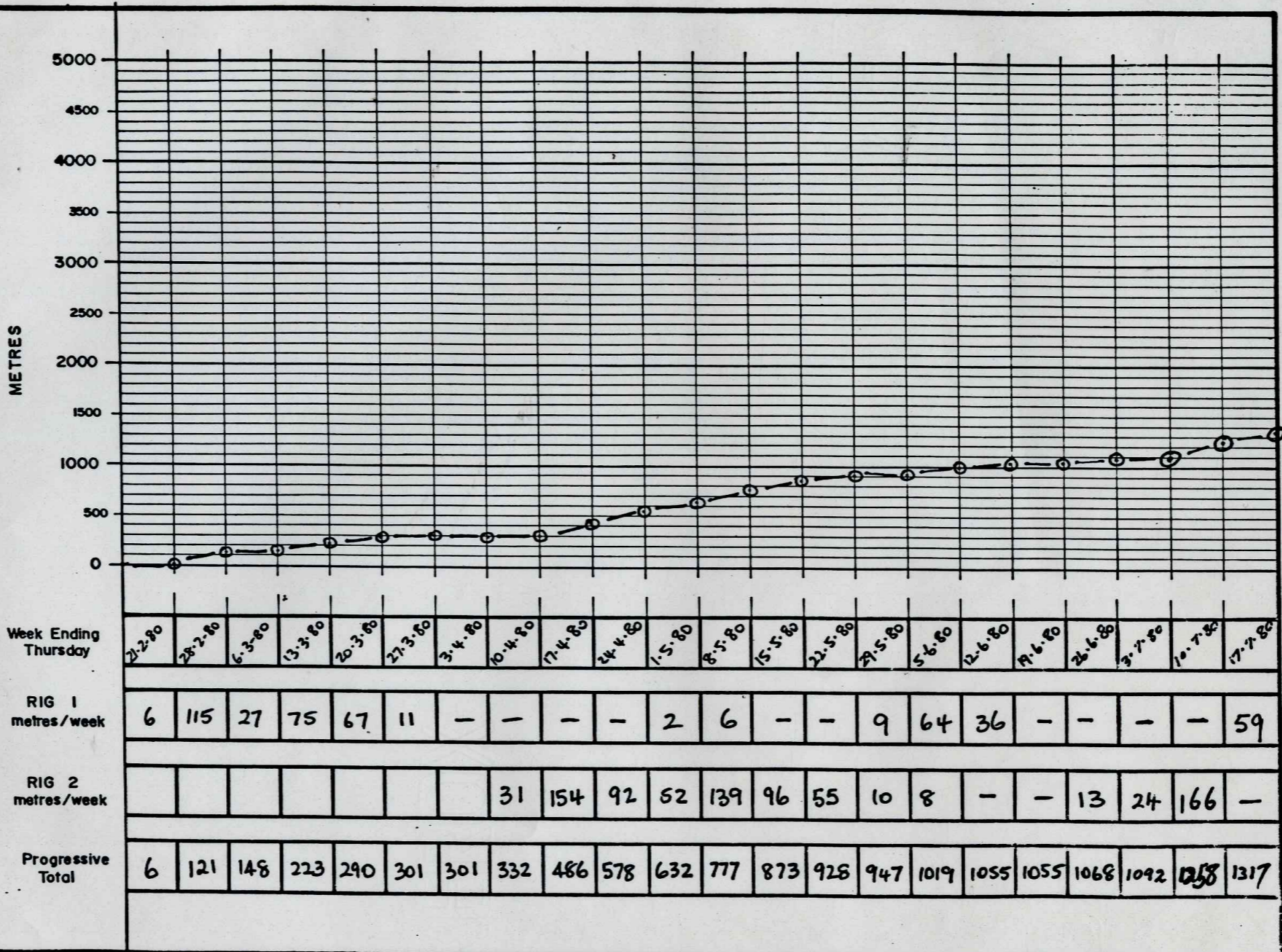
Revised by:

Location code:

Date: Nov. 1979

Scale:

Plate No



Date June 27, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME REPORT FOR WEEKS ENDING 5th, 12th, 19th and 26.6.1980 FOR THE QUEEN HILL DRILLING PROGRAMME.

Please find attached summary sheets, summary longitudinal projection and progress chart for the Queen Hill drilling programme.

Hole G63 OR2

Extremely poor ground conditions resulted in major delays at 60 m. This hole recommenced drilling on 26.6.1980 and is now proceeding in quartzite at 85 m.

Hole G64 Exp.1

At 110 m this hole encountered similar ground conditions to G63 and has not yet recommenced drilling.

Exploration Holes Exp.2 and Exp.3

Small adjustments to the target position of these holes were made in accordance with current interpretation of ore distribution. These adjustments are illustrated on the attached long section.

Some but not all assay results are now available for ore reserve hole G61.

An intersection of 2.24% Sn over 6.4 m from 226.2 to 232.6 m is indicated. (This intersection includes some short intervals with values greater than 5% Sn).

Note Assay data above 226.2 m is not yet to hand.

C.H. Young.

C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

Commence Work Proposal A80/19

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G60	1858.9	552.6	208.3	102.7	-50.5	22.2.80	23.3.80	301.0	301.0	3080	228.15-228.85 Pyritic fissure lode, pyrite 70%. 269.0-271.65 Sideritic fissure lode with minor sphalerite and galena, 5% overall.	32 1	No significant Sn. 270.3-271.65 m 0.76% Sn.
G60W	Wedge off G60 at 128.0 m						Abandoned 14.5.80	136.0	309.0	3080	<i>Coarse grained veins and disseminations of pyrite, av. 25% (Clarks Lode)</i>		
G61	1777.5	854.47	246.78	284.0	-64.1	2.4.80	29.4.80	307.7	616.7	3100	226.2-232.6 m Coarse grained veins and disseminations of pyrite, av. 25% (Clarks Lode) and <i>Queen Hill</i> 235.55 - 238.2 m Pyritic fissure lode, pyrite 50% (Queen Hill lode). <i>226.2 - 239.8 m m. Coarse grained veins and disseminations of pyrite and pyritic fissure lode, py 50% (Queen Hill lode)</i>	55 50	<i>222.9 - 225.9 m. 0.27% Sn.</i> <i>226.2 - 239.85 m. 1.06% Sn. includes 226.2 - 232.60 2.16% Sn.</i>
G62	Same collar as G61 1777.5 854.47		246.78	284.0	-55.0	30.4.80	15.5.80	256.2	872.9	3100	203.5-207.65 m Coarse grained veins and disseminations of pyrite, average 25% (Clarks Lode). 207.65-210.9 m Pyritic fissure lode, pyrite 20%. 216.25-232.3 m Replacement and vein network pyrite and pyrrhotite in dolomite and volcanics, average 35%. (Queen Hill Lode).	88 85 75	Assay data not yet available. <i>203 - 232.3 m. 2.9% Sn. overall</i> <i>203.2 - 207.65 m. 0.3% Sn.</i> <i>207.65 - 232.3 m. 1.14% Sn.</i>

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G60									24.3.80	28.3.80	17.4.80	18.4.80	29.4.80	8.5.80
G60W									16.5.80	16.5.80	No Intersection			9.5.80
G61									26.4.80	5.5.80	29.5.80	30.5.80	26.6.80	10.5.80
G62									16.5.80	21.5.80	2.6.80	3.6.80	6.8.80	11.5.80

Aborfoyo Exploration Pty Ltd

Drawn: R. J. E.

Traced:

Checked:

Revised by: Date:

QUEEN HILL

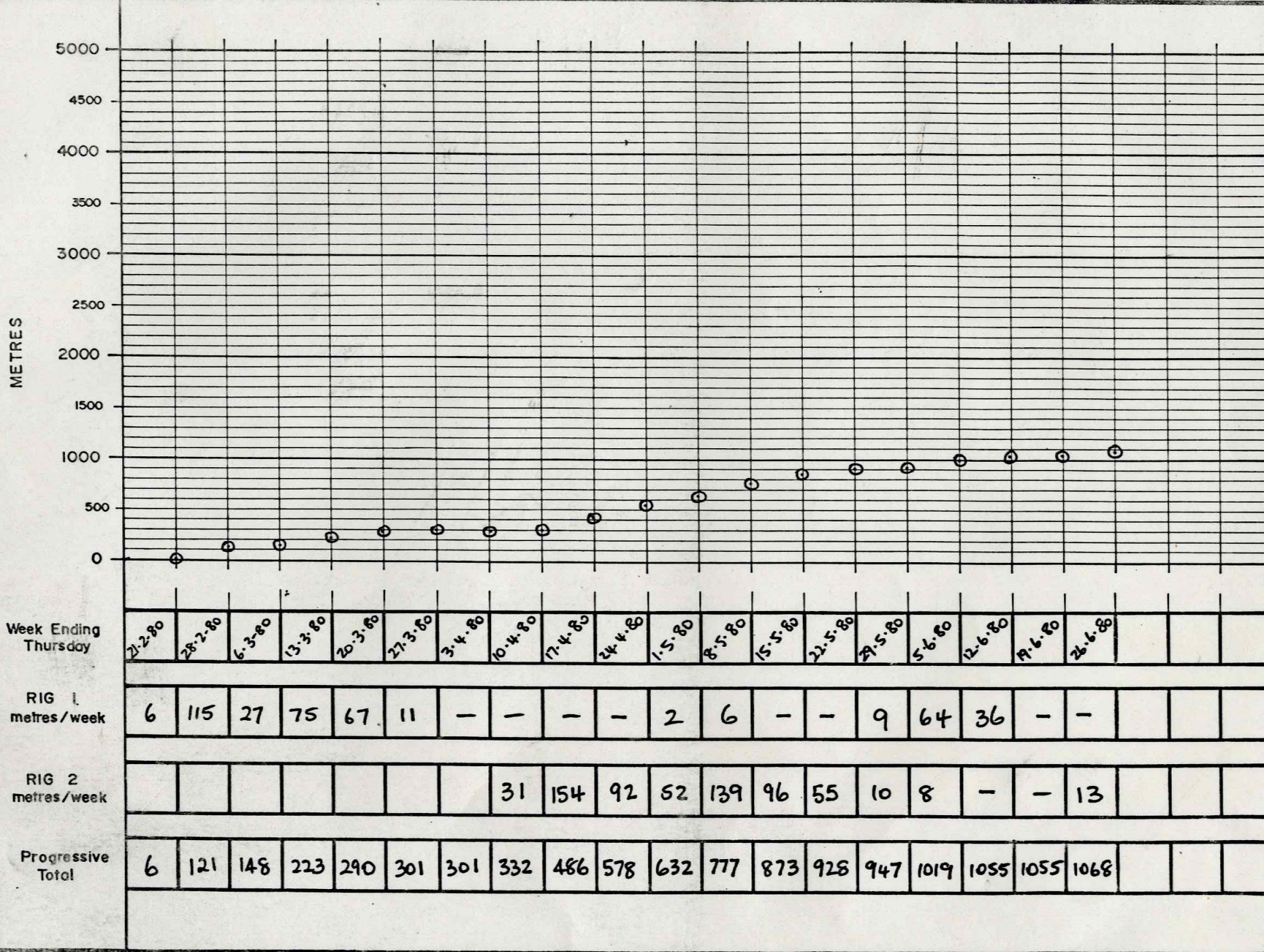
1980 DRILLING PROGRESS

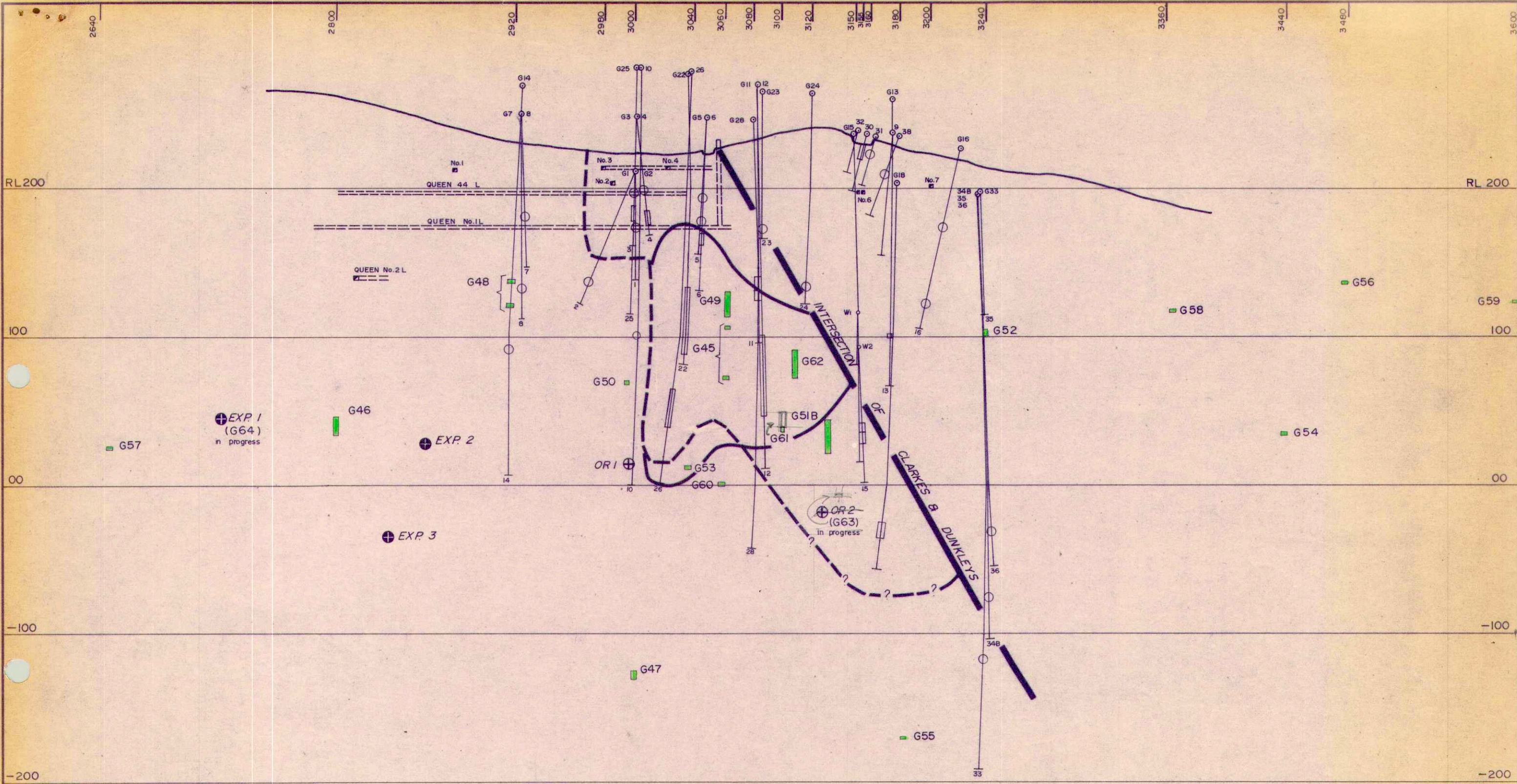
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Date: NOV. 1979

Scale:

Plate No

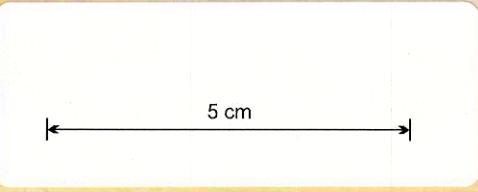




- LEGEND -

- Hole completed
- ⊕ Ore Reserve hole proposed
- ⊕ Exploration hole proposed
- Queen Hill Lode (Interpreted outline only)
- Inner Lode (Interpreted outline only)

Week Ending 26-6-80



Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA	
Drawn: R.J.E.	QUEEN HILL	
Traced: R.J.E.	SUMMARY LONGITUDINAL PROJECTION	
Checked:	1980 DRILL PROGRAMME	
Revised by: R.J.E. Date: APRIL, 80		Location code:
		Date: April, 1980
		Scale: 1:2500
		Plate No: QH 147

ABERFOYLE

MEMORANDUM

Date May 30, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME REPORT FOR WEEKS ENDING 22.5.1980 AND 29.5.1980.

Please find attached summary sheets, summary longitudinal projection and progress chart for the Queen Hill drilling programme.

Hole G63 (OR2)

Commenced on 20.5.80 and is in progress at 63 m. Progress is slow due to bad ground conditions.

Hole G64 Exp.1

Commenced on 27.5.80 and is in progress at 12 m.

C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

Commence - Work Proposal A80/19

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G60	1858.9	552.6	208.3	102.7	-50.5	22.2.80	23.3.80	301.0	301.0	3080	228.15-228.85 Pyritic fissure lode, pyrite 70%.	32	No significant Sn.
											269.0-271.65 Sideritic fissure lode with minor sphalerite and galena, 5% overall.	1	270.3-271.65 m 0.76% Sn.
G60W	Wedge off G60 at 128.0 m						Abandoned 14.5.80	136.0	309.0	3080			
G61	1777.5	854.47	246.78	284.0	-64.1	2.4.80	29.4.80	307.7	616.7	3100	220.2-232.6 m Coarse grained veins and disseminations of pyrite, av. 25% (Clarks lode).	51	<i>Complete assay data not yet available.</i>
											235.55 - 238.2 m Pyritic fissure lode, pyrite 50% (Queen Hill lode).	45	
G62	Same collar as G61 1777.5	854.47	246.78	284.0	-55.0	30.4.80	15.5.80	256.2	872.9	3100	203.5-207.65 m Coarse grained veins and disseminations of pyrite, average 25% (Clarks Lode).	88	<i>assay data not yet available</i>
											207.65-210.9 m Pyritic fissure lode, pyrite 20%.	85	
											216.25-232.3 m Replacement and vein network pyrite and pyrrhotite in dolomite and volcanics, average 35%. (Queen Hill Lode).	75	

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G60									24.3.80	28.3.80	17.4.80	18.4.80	29.4.80	8.5.80
G60W									16.5.80	16.5.80	No Intersection			9.5.80
G61									26.4.80	5.5.80	29.5.80	30.5.80		10.5.80
G62 <i>G63</i>									16.5.80	21.5.80	2.6.80	3.6.80		11.5.80

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G63	1779.75	922.69	218.24	286.25	-55.25	20.5.80	In progress	83 m 85		3120			
G64	1460.9	660.75	230.9	281.0	-62.75	27.5.80	In progress	82 m 110		2720			

Date May 16, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME REPORT FOR WEEKS ENDING 8.5.1980 AND 15.5.1980

Please find attached summary sheets, summary longitudinal projection and progress chart for the Queen Hill drilling programme.

Hole OR3 G60 Wedge

Drilling off the wedge hole commenced at 128 m and proceeded to 136 m in BQ core size. This interval was then reamed out to NQ but further attempts to proceed in NQ with the desired rate of curvature were unsuccessful.

As the wedge hole could not achieve the planned intersection it was abandoned.

This rig will now move to drill Exploration No.1 on Section 2720.

Hole OR5 G62

This hole was completed at 256.2 m on 15th May, 1980.

At 201.1 m the hole passed from the slate-quartzite sequence into the siltstone-dolomite sequence commencing with 2.4 m of pyrite rich lithic tuff (20-30% pyrite).

From 203.5 to 207.65 m there are numerous pyrite veins (40-50% overall) with minor stannite, indicative of the Clarks Lode position. From 207.65 - 210.9 m there is a siliceous pyritic breccia with 20% pyrite overall. From 210.9 - 216.25 m there is bedded pyrite, mudstone and chert average 30% pyrite.

A significant cassiterite-sulphide intersection is indicated in the interval 216.25 to 227.6 m where there is replacement and vein network pyrite and minor pyrrhotite (average 40%) in a dolomitic host.

At 227.6 m the hole enters the volcanics where there is further sulphide mineralisation, pyrrhotite-pyrite (average 30%) down to 232.3 m.

This rig will move to drill OR2 on Section 3120. Drilling is expected to commence on 17th May, 1980.

C.H. Young.

C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

Commence Work Proposal A80/19

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G60	1858.9	552.6	208.3	102.7	-50.5	22.2.80	23.3.80	301.0	301.0	3080	228.15-228.85 Pyritic fissure lode, pyrite 70%. 269.0-271.65 Sideritic fissure lode with minor sphalerite and galena, 5% overall.	32 1	No significant Sn. 270.3-271.65 m 0.76% Sn.
G60W	Wedge off G60 at 128.0 m						Abandoned 14.5.80	136.0	309.0	3080			
G61	1777.5	854.47	246.78	284.0	-64.1	2.4.80	29.4.80	307.7	616.7	3100	220.2-232.4 m Coarse grained veins and disseminations of pyrite, av. 25% (Clarkes lode). 235.55 - 238.2 m Pyritic fissure lode, pyrite 50% (Queen Hill lode).	51 45	
G62	Same collar as G61 1777.5 854.47		246.78	284.0	-55.0	30.4.80	15.5.80	256.2	872.9	3100	203.5-207.65 m Coarse grained veins and disseminations of pyrite, average 25% (Clarks Lode). 207.65-210.9 m Pyritic fissure lode, pyrite 20%. 216.25-232.3 m Replacement and vein network pyrite and pyrrhotite in dolomite and volcanics, average 35%. (Queen Hill Lode).	88 85 75	
G63	1779.75	922.69	218.24	286.25	-55.25	20.5.80	IN PROGRESS	63 m	312	3120			
G64	1460.8	660.7	230.9	281.0	-62.75	27.5.80	IN PROGRESS	12 m		2720.			

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

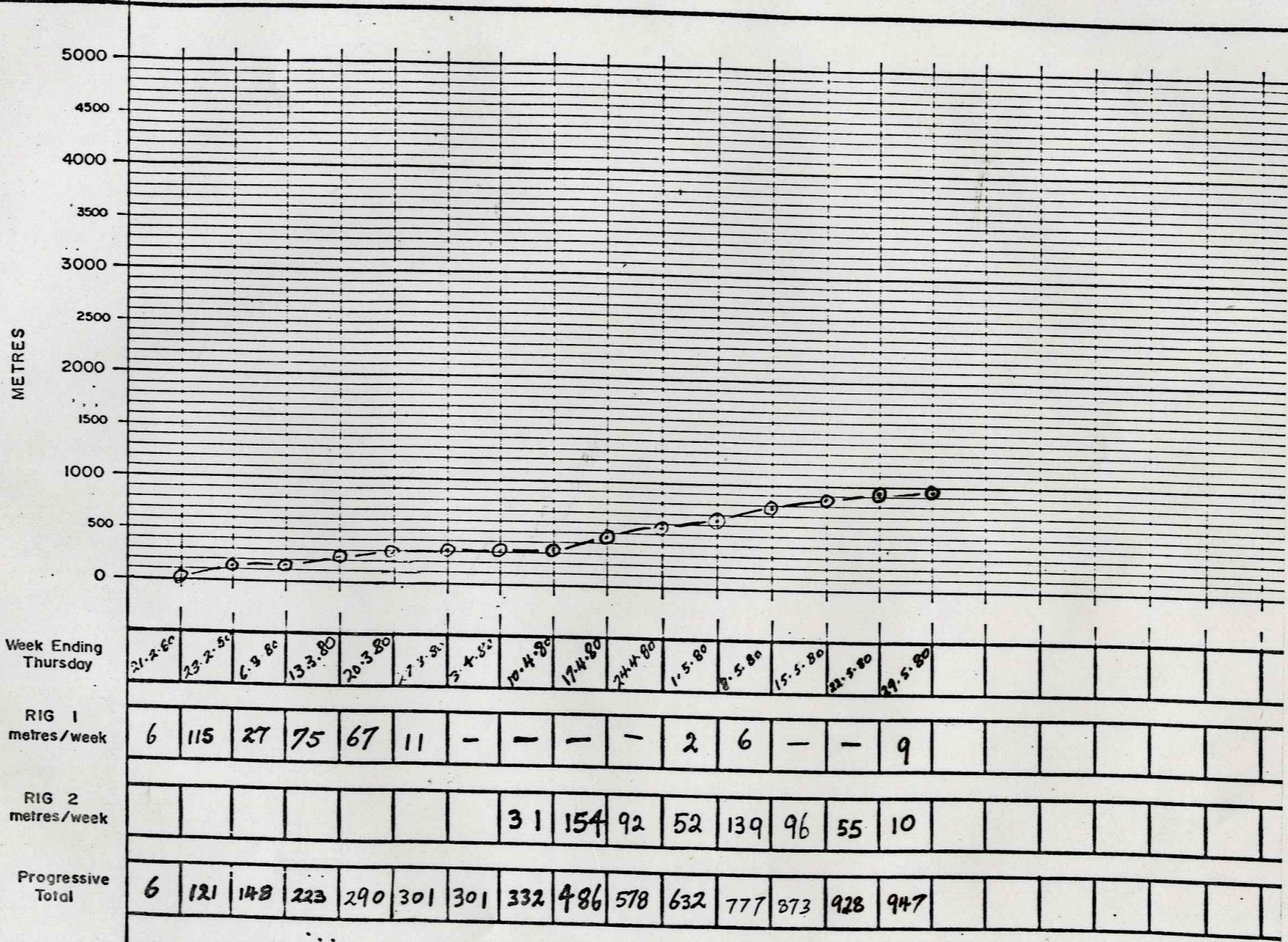
D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G60									24.3.80	28.3.80	17.4.80	18.4.80	29.4.80	8.5.80
G60W									16.5.80	16.5.80	NO INTERSECTION			
G61									26.4.80	5.5.80	29.5.80	30.5.80		
G62									16.5.80	21.5.80				

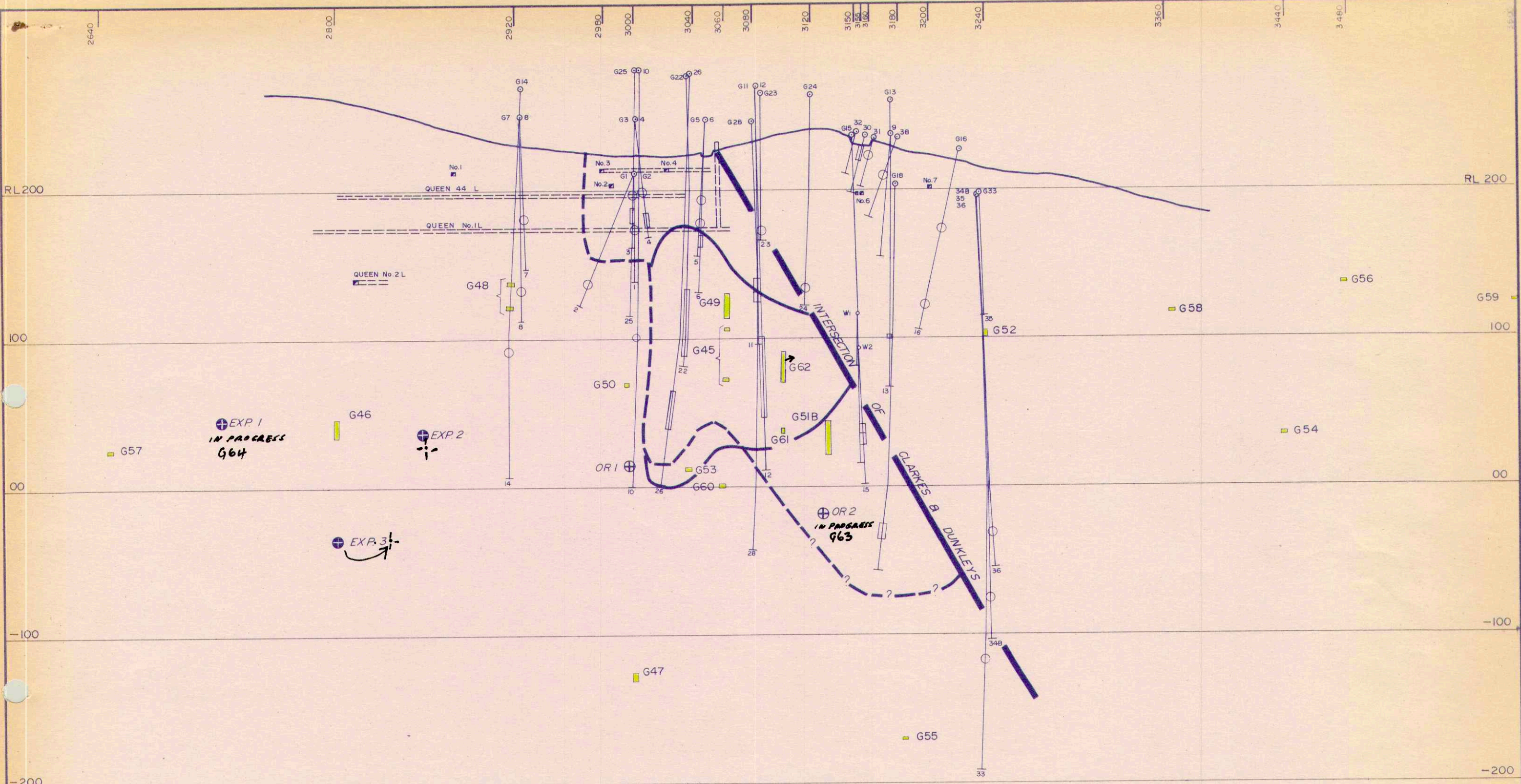
Abertoye Exploration Pty Ltd

Drawn: R.J.E.
Traced:

Location code:
Date: Nov. 1979

QUEEN HILL 1980 DRILLING PROGRESS





— LEGEND —

- Hole completed
- + Ore Reserve hole proposed
- + Exploration hole proposed
- Queen Hill Lode (Interpreted outline only)
- Inner Lode (Interpreted outline only)

Week Ending

15-5-80

5 cm

Aberfoyle Exploration Pty Ltd

Geology:
 Drawn: R.J.E.
 Traced: R.J.E.
 Checked:
 Revised by: R.J.E. Date: APRIL, 80

NORTH WEST TASMANIA
QUEEN HILL
 SUMMARY LONGITUDINAL PROJECTION
 1980 DRILL PROGRAMME

Location code:
 Date: April, 1980
 Scale: 1:2500
 Plate No
 QH 147

Date May 6, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME REPORT FOR WEEKS ENDING 24.4.1980 AND 1.5.1980 ^{8.5}

Please find attached summary sheets, summary longitudinal projection and progress chart for the Queen Hill drilling programme.

Hole QR3 G60 Wedge

Drilling of the wedge hole commenced on 29.4.80. There is a new driller on this rig and it is hoped that there will be less delays than previously.

Hole OR4 G61

This hole passed from the slate-quartzite sequence into the dolomite-siltstone sequence at 226.4 m and then entered the volcanic unit at 292.0 m. The position of the volcanic contact and bedding at low angle to the core axis, indicates a local dip reversal to steeply west.

Vein pyrite of Clarkes Lode commences at 220.2 m (average 25%), locally 70% and ends at 232.4 m. From 235.55 to 238.2 m there is coarse grained pyrite locally describing a vein network, correlated with the Queen Hill lode position. The lack of significant ore development, like in G51, is attributed to the presence of siltstone in this position - not a reactive rock such as dolomite or carbonate rich volcanics.

Hole OR5 G62

This hole is in progress at 30 m. G62 is being drilled from the same collar location as G61.

In G15 the previously unsampled interval from 260 - 263 m assays 0.91% Sn. This interval correlates with the inner lode position.

C. H. Young

C.H. YOUNG.

Aberfoyle Exploration Pty Ltd

Drawn: R. J. E.

Traced:

Checked:

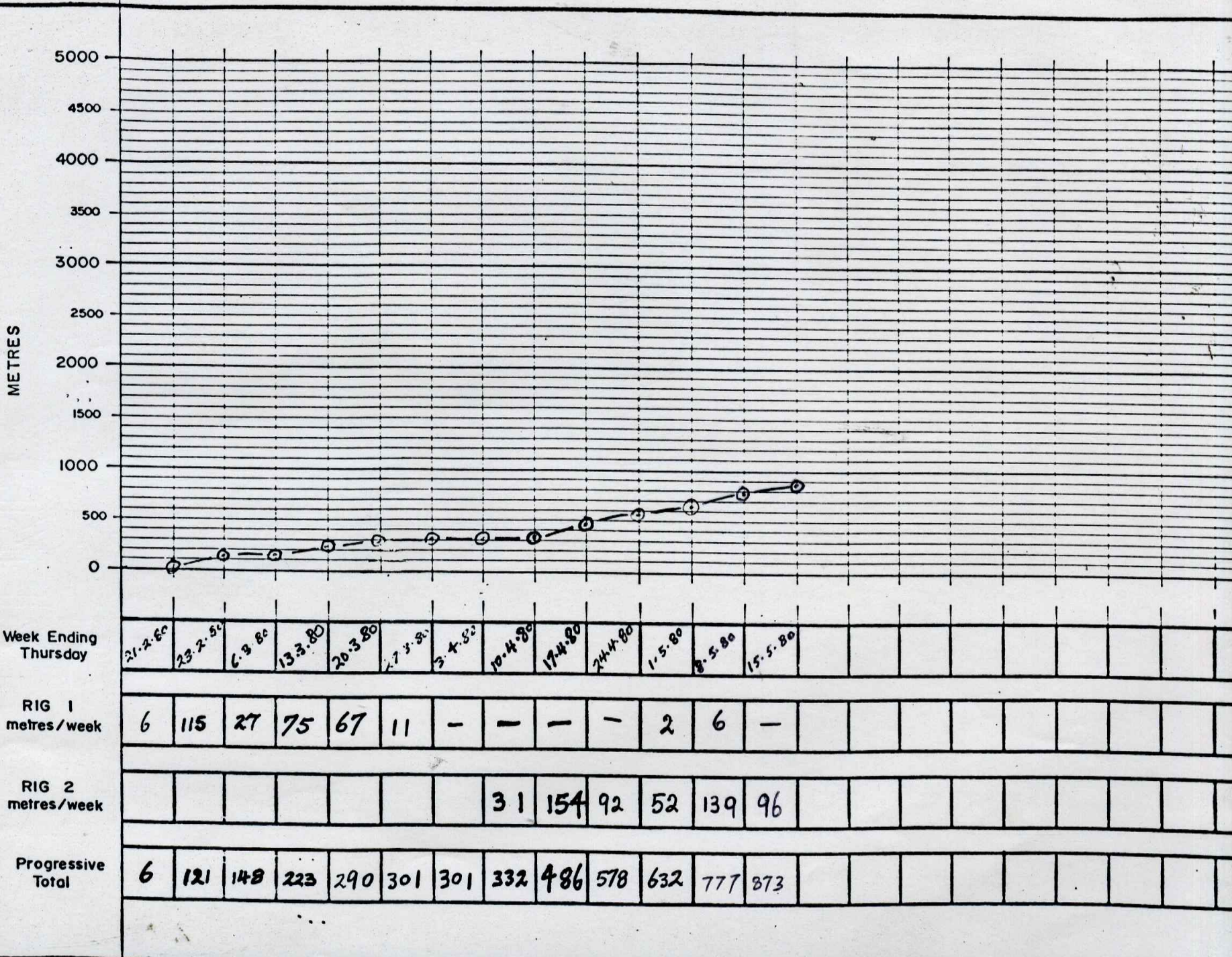
QUEEN HILL

1980 DRILLING PROGRESS

Location code:

Date: Nov. 1979

Scale:



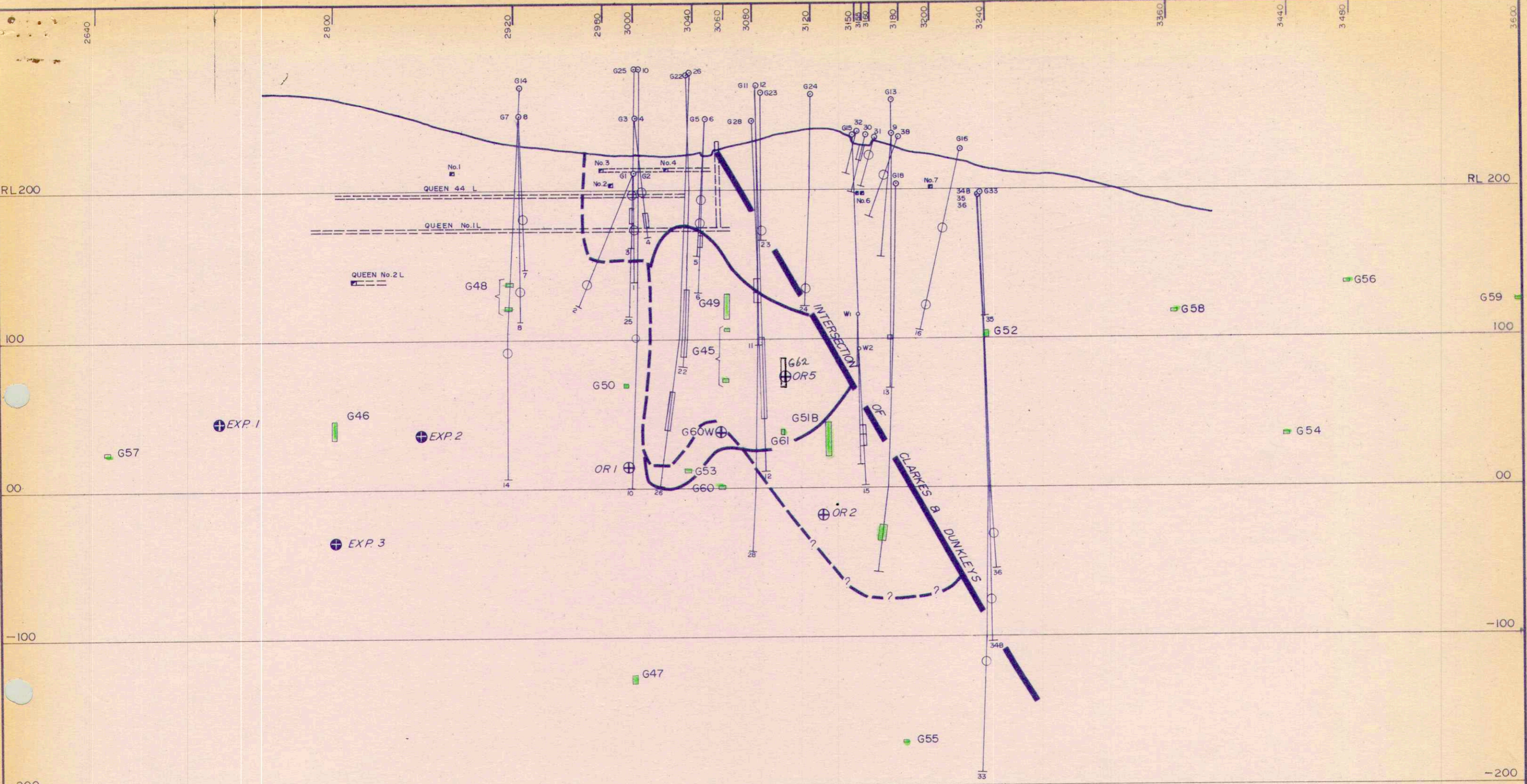
QUEEN HILL - Diamond Drilling Summary

Commence - Work Proposal A80/19

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G60	1858.9	552.6	208.3	102.7	-50.5	22.2.80	23.3.80	301.0	301.0	3080	228.15-228.85 Pyritic fissure lode, pyrite 70%. 269.0-271.65 Sideritic fissure lode with minor sphalerite and galena, 5% overall.	32 1	No significant Sn. 270.3-271.65 m 0.76% Sn.
G60W	Wedge off G60 at 128.0 m		in progress at 130 m.				ABANDONED 14.5.60	136 m (8m)	309.0 (437.00)	3080			
G61	1777.5	854.47	246.78	284.0	-64.1	2.4.80	29.4.80	307.7	616.7	3100	220.2-232.4 m Coarse grained veins and disseminations of pyrite, av. 25% (Clarks lode). 235.55 - 238.2 m Pyritic fissure lode, pyrite 50% (Queen Hill lode).	51 45	
G62	Same collar as G61 1777.5 854.47		246.78	284.0	-55.0	30.4.80	15.5.80	In progress at 30m 256.2	872.9	3100	203.5 - 207.65 m Coarse grained vein and dissemination of pyrite, av. 25% (Clarks lode) 207.65 - 210.9 m Pyritic fissure lode, pyrite 20%. 216.25 - 232.3 m Replacement and vein network pyrite and pyrrhotite in dolomite and calcosine, av 35%. 75. (Queen Hill lode).	88 85	

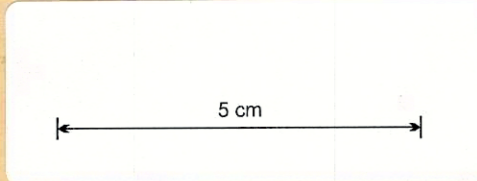
EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G60									24.3.80	28.3.80	17.4.80	18.4.80	29.4.80	8.5.80
G60W									16.5.80	16.5.80				
G61									26.4.80	5.5.80				
G62									16.5.80					



- LEGEND -
- Hole completed
 - + Ore Reserve hole proposed
 - ⊕ Exploration hole proposed
 - Queen Hill Lode (Interpreted outline only)
 - Inner Lode (Interpreted outline only)

Week Ending 1-5-80



Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA	
Drawn: R.J.E.	QUEEN HILL	
Traced: R.J.E.	SUMMARY LONGITUDINAL PROJECTION	
Checked:	1980 DRILL PROGRAMME	
Revised by: R.J.E. Date: APRIL, 80		Location code:
		Date: April, 1980
		Scale: 1:2500
		Plate No
		QH 147

Date April 23, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets and progress chart for the Queen Hill drilling programme.

Hole OR3 G60 Wedge

The wedge was set and drilling of the wedge hole is expected to commence immediately.

Hole OR4 G61

This hole is in progress at 185 m in slate-quartzite sequence. Taylors Lode was intersected from 118.4 - 119.7 m and includes from 118.4 - 118.85 m, 30-40% stannite with 20% pyrite.

The following mineralised intervals, from old holes were sampled and are currently being assayed by the Cleveland laboratory:

G15	260	- 265 m
G15W2	248.78	- 251 m
G25	145	- 160 m
G22	179.83	- 182.27 m
G34B	338.75	- 341.75 m
G16	57.00	- 60.35 m

C.H. Young.

C.H. YOUNG.

Aberfoyle Exploration Pty Ltd

Drawn: R.J.E.

Traced:

Checked:

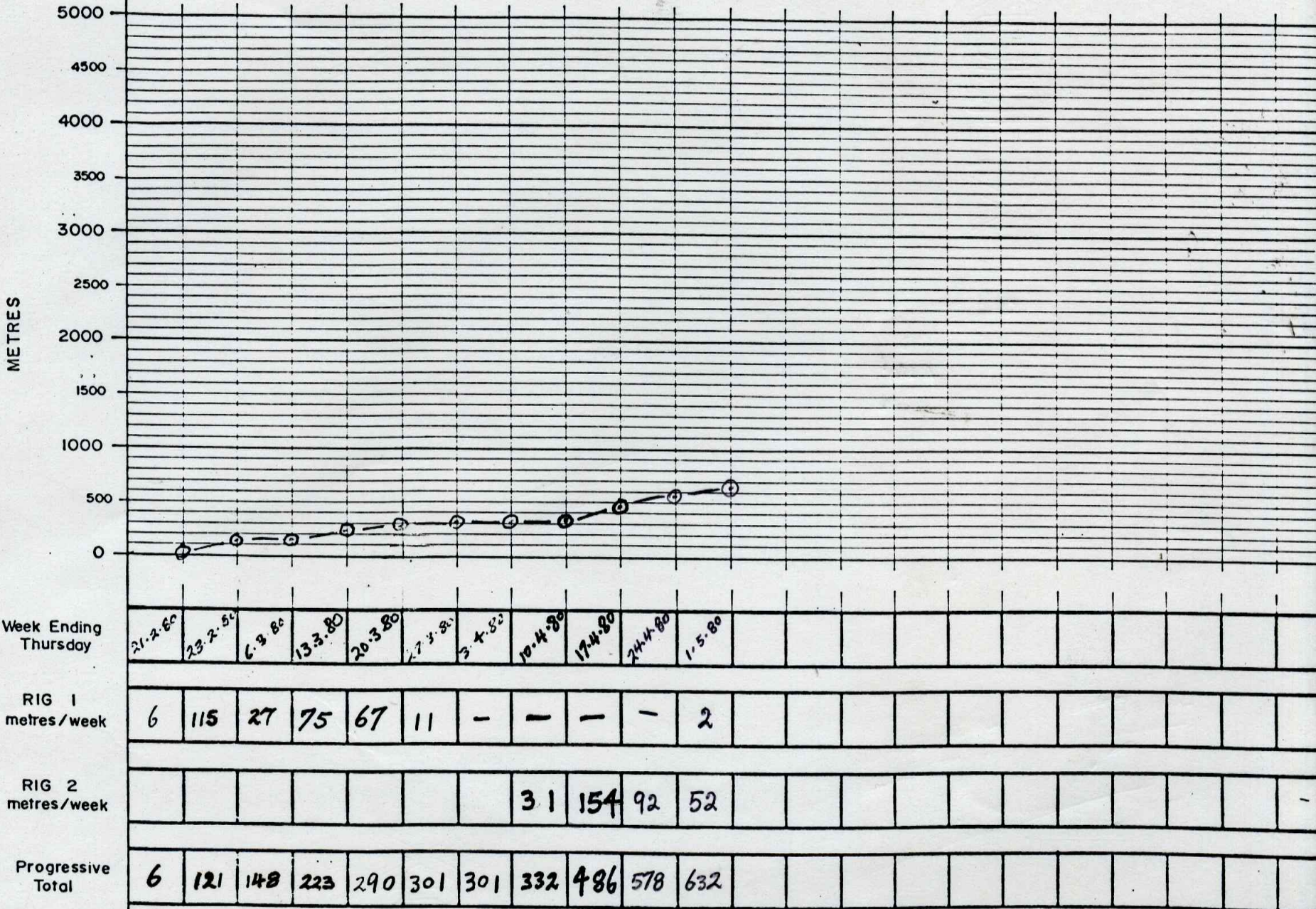
QUEEN HILL

1980 DRILLING PROGRESS

Location code:

Date: Nov. 1979

Scale:



QUEEN HILL — Diamond Drilling Summary

Commencement Work Proposal A80/19

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G60	1858.9	552.6	208.3	102.7	-50.5	22.2.80	23.3.80	301.0	301.0	3080	228.15-228.85 Pyritic fissure lode, pyrite 70%. 269.0-271.65 Sideritic fissure lode with minor sphalerite and galena, 5% overall.	32 1	NO SIGNIFICANT Sn. 270.3 - 271.65 m 0.76% Sn
G60W	<i>Wedge off G60</i>		<i>at</i>	<i>128.0m</i>	<i>29.4.80</i>	<i>IN PROGRESS at 130m</i>			301.0	3080	<i>Coarse grained disseminations of PYRITE, av. 25% (Clark's lode)</i> <i>235.55 to 238.2m Pyritic fissure lode, pyrite 50% (Queen Hill Lode)</i>	32	
G61	1777.5	854.47	246.78	284.0	-64.1	2.4.80	<i>29.4.80</i>	<i>In progress at 32m</i> <i>307.7</i>		3100		51 45	
G62	<i>1777.5</i>	<i>854.47</i>	<i>246.78</i>	<i>284.0</i>	<i>-55.0</i>	<i>30.4.80</i>		<i>IN PROGRESS at 30m</i>		3100			

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	10.12.79	511.3	3328.6	3180	Dolomitic and carbonaceous siltstone host unit intersected between 362.5 and 472.6m. 30 cm only of weakly replaced dolomite 463.7 - 464 m.	-180	No significant Sn mineralisation. (463.7 - 464 m/0.5% Sn.)
G56	2216.84	787.78	187.03	280.4	-45.7°	13.12.79	21.12.79	283.2	3611.8	3480	Dolomitic and pyritic siltstone unit between 72 and 85 m.	137	No significant Sn mineralisation
G57	1345.4	558.4	219.3	302.25	-55.5°	5. 1.80	11.1.80	307.4	3919.2	2640	Dolomitic and carbonaceous siltstone host unit intersected between 245.9 and 273 m. 60% coarse grained pyrite from 245.9-246.9 m.	25	No significant Sn mineralisation. (245.85-246.95 0.15% Sn).
G58	2160.5	613.1	189.8	100.5	-43.3°	11.1.80	6.2.80	292.0	4211.2	3360	110.1 - 111.1 m 30% Pyrite as veins in siderite rich breccia zone.	116	No significant Sn mineralisation.
G59	2366.4	727.8	200.0	280.25	45.5°	17.1.80	11.2.80	216.0	4427.2	3600	77 - 79 m, old workings. 96.22 - 96.4 m, 20% Pyrite in re-crystallised dolomite. 104.9 - 107.5 m. Fissure lode, sphalerite and galena noted (major core loss).	138 123 118	No significant Sn mineralisation.

Date April 9, 1980. Ref
To K.R. Yates, From C.H. Young,
At Adelaide. At Wynyard.
Copies to S.M. Richards. Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached Longitudinal Projection and Progress Chart.

Hole OR3 (G60)

A major delay to the progress of this hole was incurred when the drill string was jammed by cement during preparation to set the wedge. Reaming at drillers expense is in progress.

When the wedge hole is complete, this rig will be moved to commence Exploration Hole No. 1.

The exploration holes are designed to test near the G46 intersection, interpreted to be in the vicinity of the intersection of the Queen No. 4 and Clarkes lodes.

Hole OR4 (G61)

The second drill rig is now on site and G61 was commenced on 2.4.80. Drilling is in progress.

Assay of previously unsampled mineralised intervals from old holes, is continuing. To date one of these intervals has aided in the definition of a small Sn lode position adjacent to and within the volcanics, now called the Inner Lode. The new interval is in G11W and consist of 0.72% Sn from 166.6 - 171.6 m.

Similarly in the Queen Hill Lode position, a partly assayed mineralised interval in G2 is now shown to contain 0.79% Sn from 102.72 - 107.22 m.

All drill core, excepting G60 and G61 which are in progress, is now logged. All holes are drafted onto section and have been sampled. Assay results for Sn are almost up to date however many results for Sns, Cu, Pb, Zn and Ag are still outstanding.

Regards.

C. H. Young.

C.H. YOUNG.

Abertoyle Exploration Pty Ltd

Drawn: R.J.E.

Traced:

Checked:

Revised:

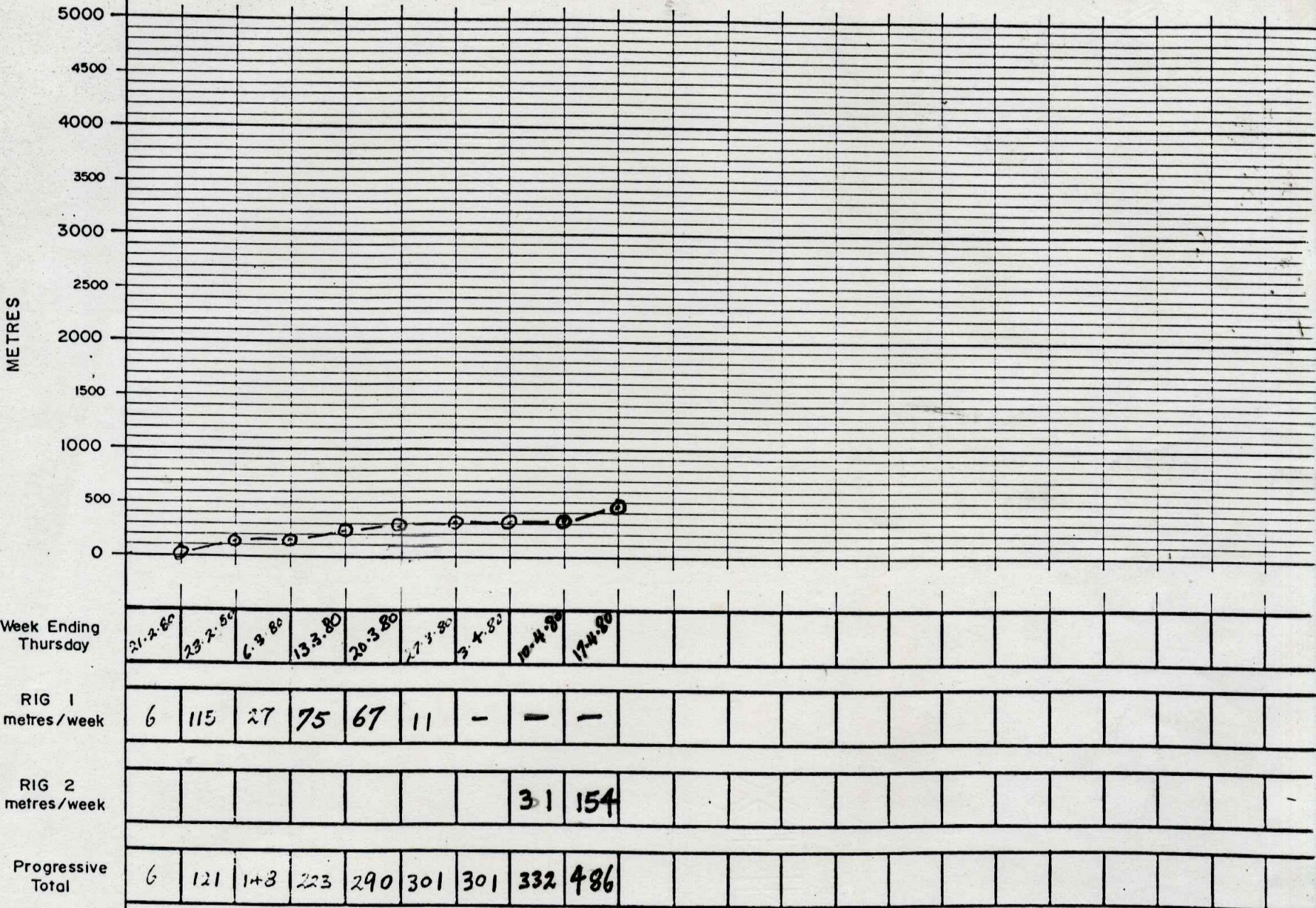
QUEEN HILL

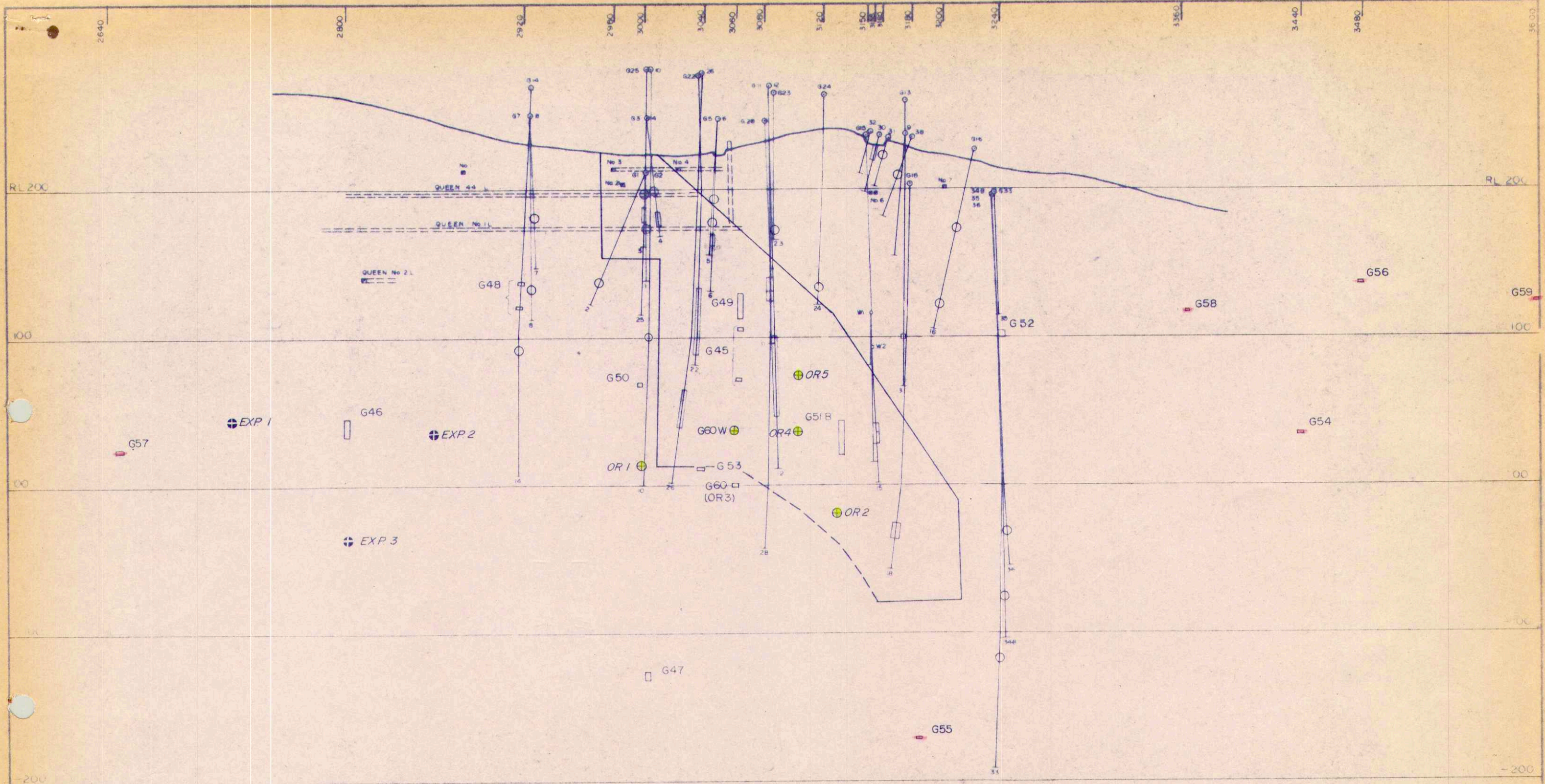
1980 DRILLING PROGRESS

Location code:

Date: Nov. 1979

Scale:

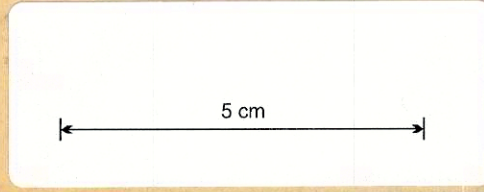




— LEGEND —

- G45 □ Hole Completed
- OR 3 ⊕ Ore Reserve Hole Proposed
- EXP 3 ⊕ Exploration Hole Proposed

Week Ending 3.4.80



Aberfoyle Exploration Pty Ltd		
Geology	NORTH WEST TASMANIA	
Drawn RJE	QUEEN HILL	
Traced RJE	1980 DRILL PROGRAMME	
Checked	Location code	
Revised by RJE Date AUG 79	Date January, 1980	
	Scale 1:2,500	
	Plate No QH 147	

Date	March 27, 1980.	Ref	
To	S.M. Richards,	From	C.H. Young,
At	Melbourne.	At	Wynyard.
Copies to	K.G. Palmer, K.R. Yates	Keep	

Subject ADDITIONAL DRILLING PROPOSED FOR WP A 80-19

There is a requirement to improve confidence in ore continuity, particularly in view of the lack of a significant intersection in G45.

To demonstrate ore continuity it is proposed to modify the two ore reserve holes (OR4 and OR5) proposed for Section 3110 such that four intersections at 15 m vertical intervals are achieved on Section 3100. This will necessitate a separate wedge hole from OR4 and OR5 respectively. A summary longitudinal section is attached.

Another wedge hole is required to achieve the planned intersection for OR3, Section 3055 (Drill hole G60). G60 was completed at 301 m but due to unplanned steepening passed 40 m below the target RL.

To achieve the 3 wedge holes noted above additional funds applicable to WP A 80-19 are requested.

Estimated expenditure is summarised below:-

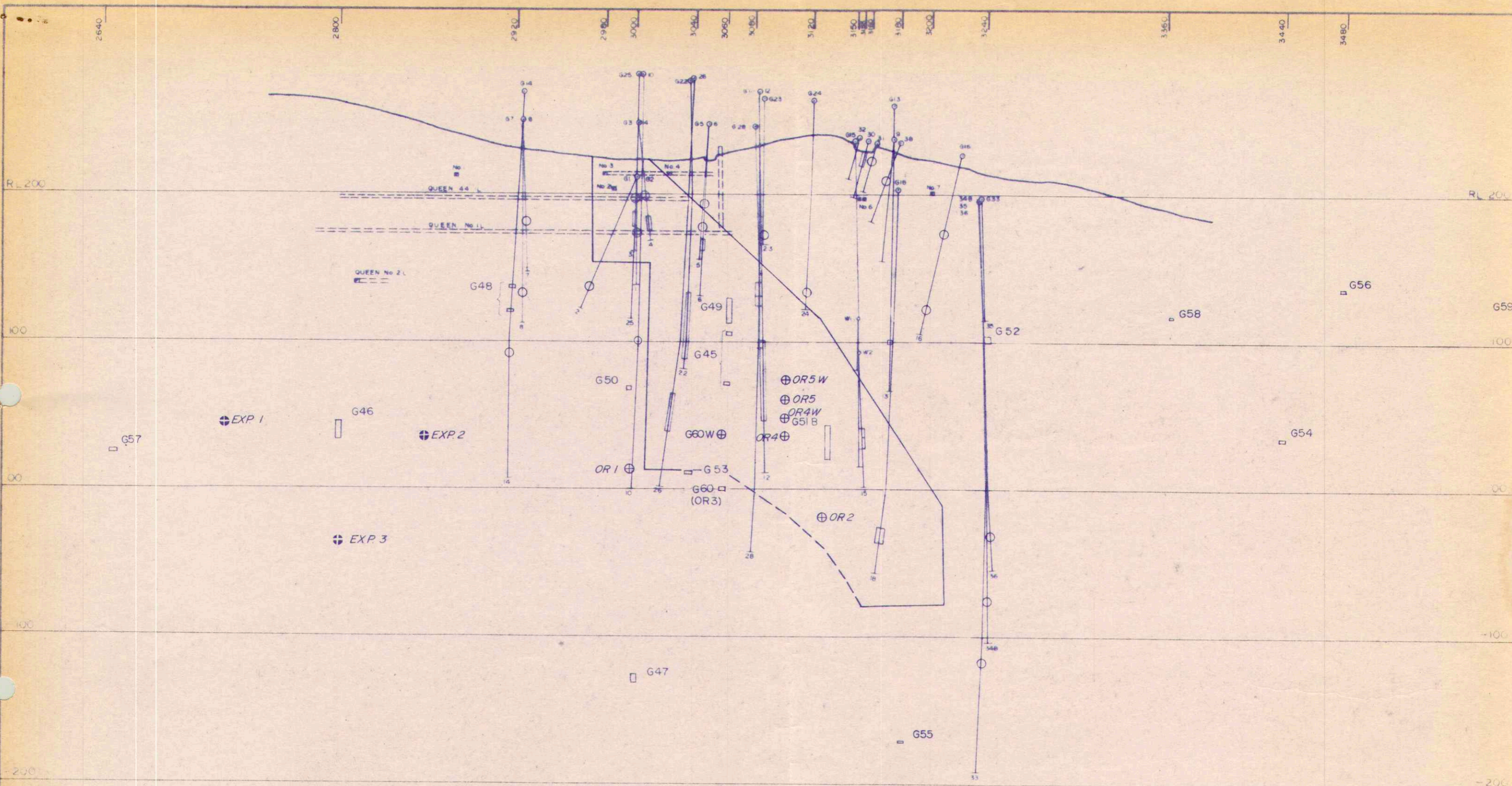
3 x Hall-Rowe wedges, including setting time	\$6,000
Additional Diamond Drilling 460 m	
Total cost including Sundries, Geology, Survey and Assaying	\$43,400

C.H. Young

C.H. YOUNG.

Decision to defer this proposal.

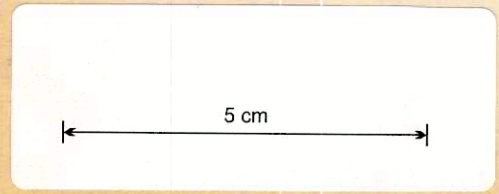
*1.4.80. KRY
SMR
KRP.*



— LEGEND —

- G45 □ Hole Completed
- OR 3 ⊕ Ore Reserve Hole Proposed
- EXP 3 ⊕ Exploration Hole Proposed

Week Ending



Aberfoyle Exploration Pty Ltd		
Geology	NORTH WEST TASMANIA	
Drawn RJE	QUEEN HILL	
Traced RJE	1980 DRILL PROGRAMME	
Checked		
Revised by RJE Date AUG 79		
		Location code
		Date January, 1980
		Scale 1:2,500
		Plate No QH 147

Date March 21, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Hole OR3 (G60)

Attempts to raise this hole to achieve an intersection at the planned RL were unsuccessful. Whilst allowing the hole to continue through to the projected zone of mineralisation it was decided to attempt to intersect the planned target using a wedge hole to commence at 130 m. Should this be successful, most necessary comparative data on ore continuity will be acquired.

The parent hole passed through volcanics to 227.20 m then black shale to 228.15 m. A pyritic fissure lode was intersected between 228.15 and 228.85 m, containing up to 60% pyrite in a siderite-silica matrix. This was at RL 32 30 m below the planned position.

A large dolomite unit was then intersected including some intervals of bedded fine grained pyrite to 269.0 m. From 269 to 270 m a highly siliceous rock possibly chert was noted, then another fissure lode was intersected between 269 and 271.65, with only minor sulphide mineralisation (pyrite 3-5% trace sphalerite and galena). This was at RL 1, 40 m below the planned position.

Black shales and siltstone then extended to 297.1 m where the internal volcanic was intersected. The hole was stopped at 301 m.

Hole OR4

The second drill rig should commence OR4 this week.

C.H. Young

C.H. YOUNG.

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G50									30.10.79	12.11.79	27.11.79	30.11.79	12.12.79	6.12.79
G51									15.11.79	19.2.80				22.2.80
G51B									17.11.79	26.11.79	6.12.79	7.12.79	14.12.79	17.12.79
G52									18.11.79	14.11.79	16.11.79	18.11.79	10.1.80	8.1.80
G53									29.11.79	6.12.79	14.12.79	18.11.79	4. 1.80	10.1.80
G54									9. 1.80	28.1.80	24.2.80	25.2.80	10.3.80	19.2.80

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

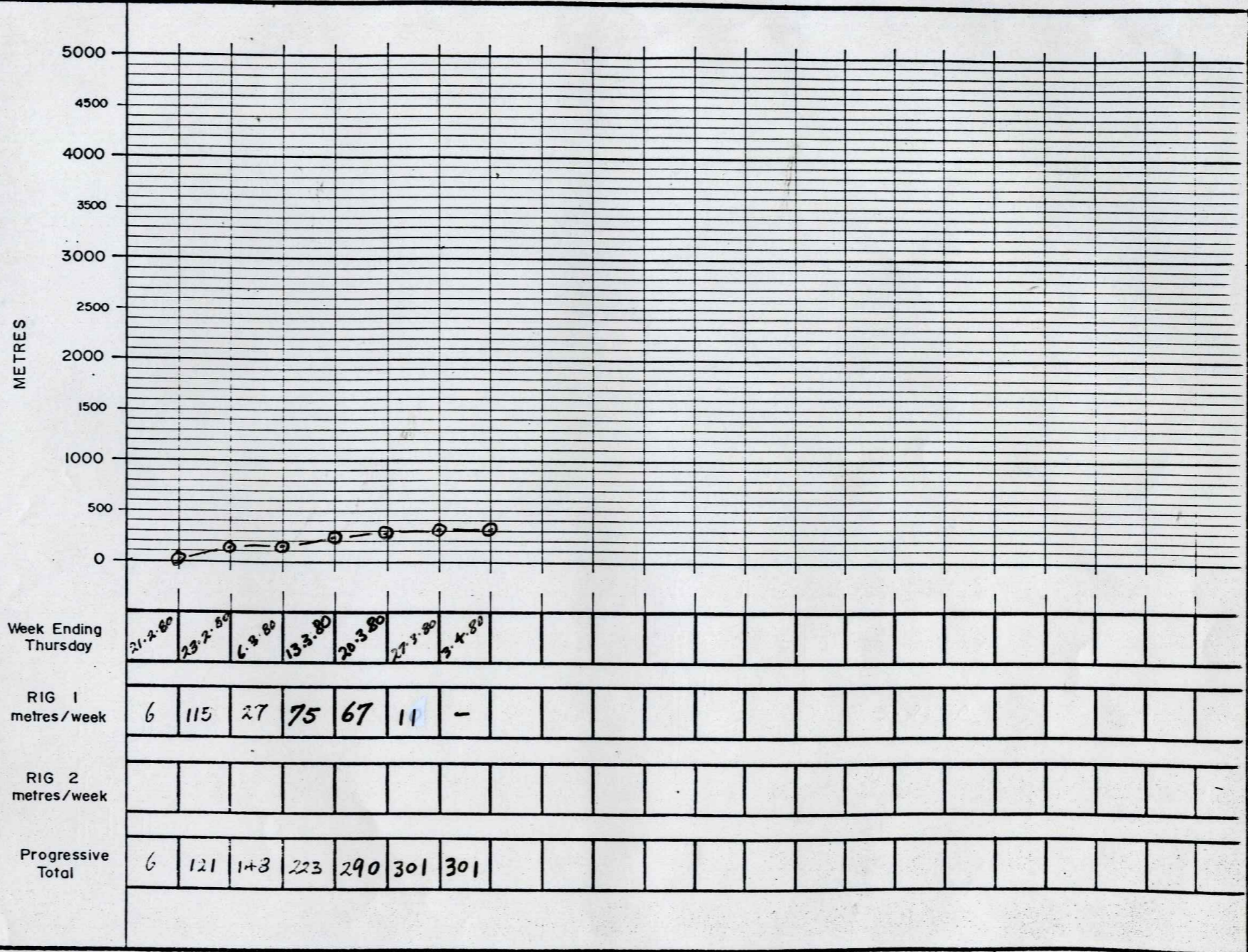
D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G55									11.12.79	10.1.80	19.1.80	21.1.80	15.2.80	19.1.80
G56									5.1.80	3.2.80	8.2.80	11.2.80	7.3.80	8.2.80
G57									12.1.80	25.1.80	1.2.80	4.2.80	15.3.80	15.2.80
G58									7.2.80	24.2.80	7.3.80	10.3.80	2.4.80	28.2.80
G59									14.2.80	14.2.80	14.2.80	25.2.80		22.2.80

Aberfoyle Exploration Pty Ltd

Drawn: R.J. E.
 Traced:
 Checked:
 Revised by: Date:

QUEEN HILL
1980 DRILLING PROGRESS

Location code:
 Date: Nov. 1979
 Scale:
 Plate No:



Date March 7, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Hole OR 3 (G60)

This hole is in progress at 148 m in volcanics.

All attempts to achieve a normal rate of flattening have so far been unsuccessful and if the hole follows its current path it will intersect the mineralised horizon approximately 40 m below the planned RL. Accordingly, an attempt will be made to induce severe flattening using a bull-nosed bit. If the hole cannot be lifted to achieve the desired intersection it will be drilled to intersect the mineralisation and then a wedge run will be attempted to achieve the planned intersection.

The second drill rig is awaited.

C.H. YOUNG.

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section	
G50									30.10.79	12.11.79	27.11.79	30.11.79	12.12.79	6.12.79	
G51									15.11.79	19.2.80				22.2.80	
G51B									17.11.79	26.11.79	6.12.79	7.12.79	14.12.79	17.12.79	
G52									18.11.79	14.11.79	16.11.79	18.11.79	10.1.80	8.1.80	
G53									29.11.79	6.12.79	14.12.79	18.11.79	4. 1.80	10.1.80	
G54									9. 1.80	28.1.80	24.2.80	25.2.80	10.3.80	19.2.80	

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

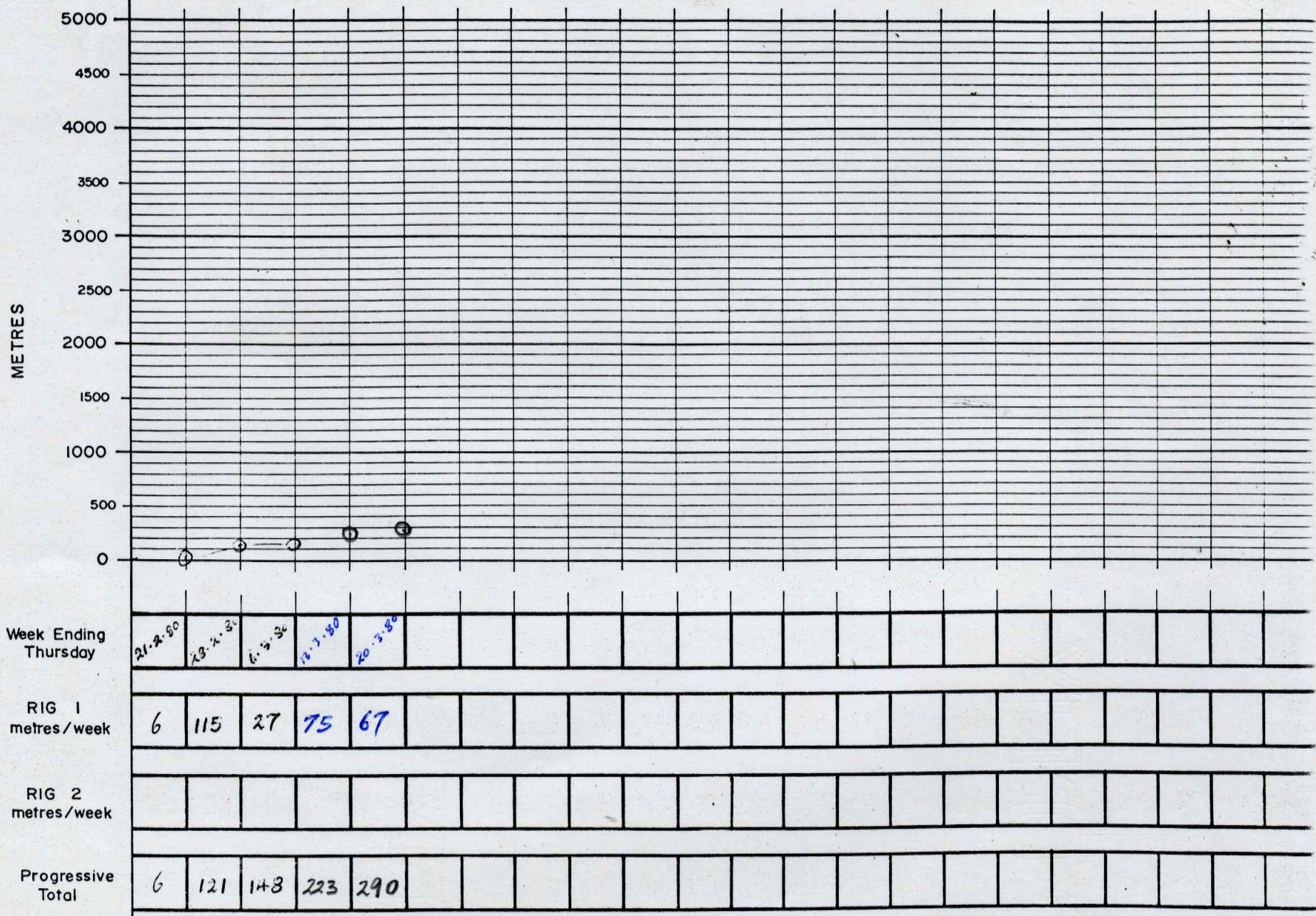
D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G55									11.12.79	10.1.80	19.1.80	21.1.80	15.2.80	19.1.80
G56									5.1.80	3.2.80	8.2.80	11.2.80	7.3.80	8.2.80
G57									12.1.80	25.1.80	1.2.80	4.2.80	15.3.80	15.2.80
G58									7.2.80	24.2.80	7.3.80	10.3.80		28.2.80
G59									14.2.80	14.2.80	14.2.80	25.2.80		22.2.80

Drawn: R. J. E.
 Traced:
 Checked:
 Revised by: Date:

**QUEEN HILL
 1980 DRILLING PROGRESS**

Location code:
 Date: Nov. 1979
 Scale:
 Plate No

Aberfoyle Exploration Pty Ltd



Date February 22, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets for the Queen Hill Drilling Programme.

The new drilling programme has commenced.

OR1 Section 3000 RL10.

Attempts to extend G50 were unsuccessful. This was due to the collapse of the G50 collar which was in 11 m of spoil dump material.

Pending preparation of a new drill site the rig was moved to the closest available site and OR3 has now commenced.

OR3 Section 3060 RL45.

This hole commenced today 22.2.1980.

A second L-10 drill rig is due on site in approximately 2 weeks. It is anticipated a 2 rig day shift only programme will eventuate.

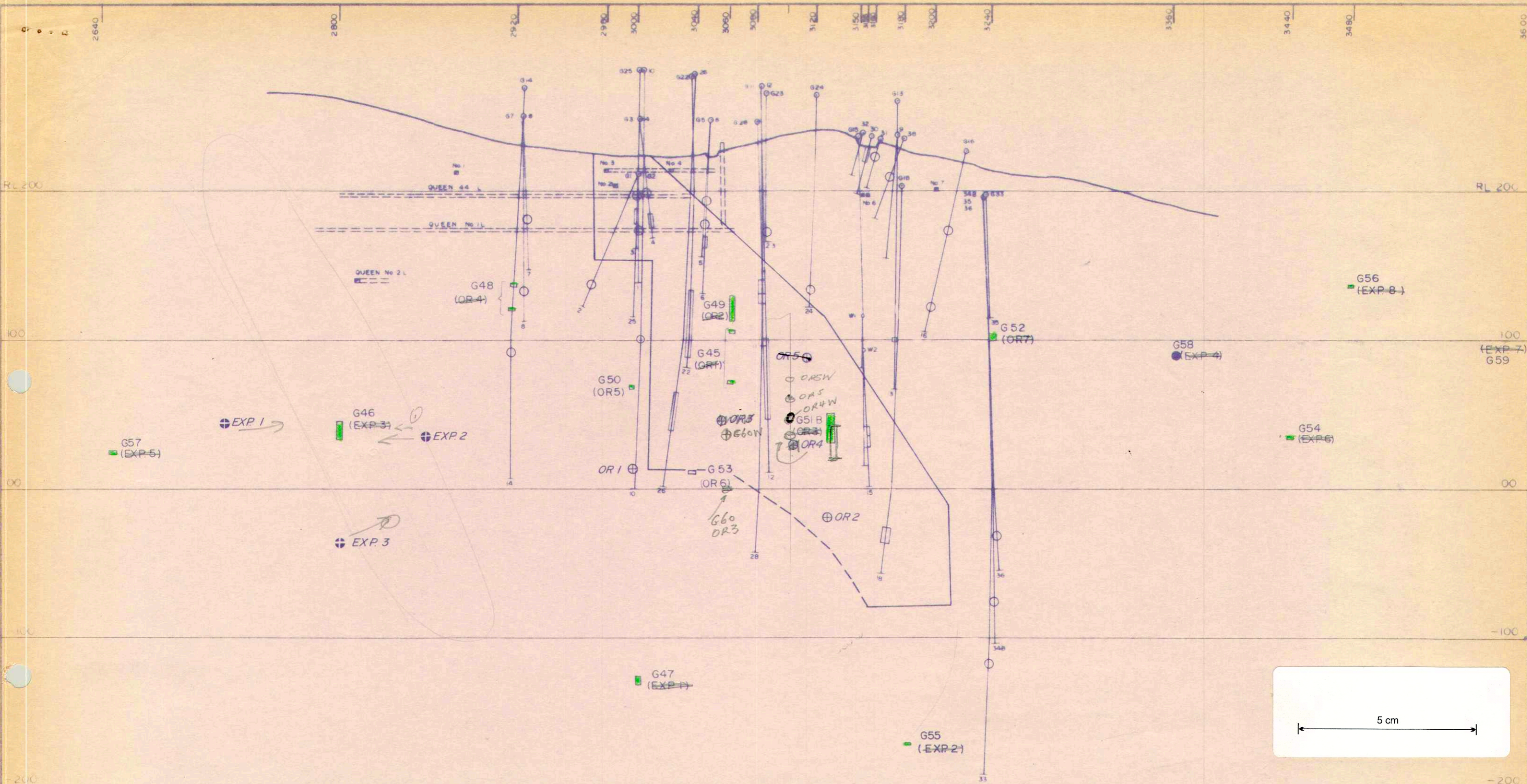
C.H. Young

C.H. YOUNG.

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G50									30.10.79	12.11.79	27.11.79	30.11.79	12.12.79	6.12.79
G51									15.11.79	19.2.80				22.2.80
G51B									17.11.79	26.11.79	6.12.79	7.12.79	14.12.79	17.12.79
G52									18.11.79	14.11.79	16.11.79	18.11.79	10.1.80	8.1.80
G53									29.11.79	6.12.79	14.12.79	18.11.79	4. 1.80	10.1.80
G54									9. 1.80	28.1.80	24.2.80	25.2.80		19.2.80

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G55									11.12.79	10.1.80	19.1.80	21.1.80	15.2.80	19.1.80
G56									5.1.80	3.2.80	8.2.80	11.2.80		8.2.80
G57									12.1.80	25.1.80	1.2.80	4.2.80		15.2.80
G58									7.2.80	24.2.80				28.2.80
G59									14.2.80	14.2.80	14.2.80	25.2.80		22.2.80



— LEGEND —

- G45 █ Hole Completed
- OR 3 ○ Ore Reserve Hole Proposed
- EXP 3 ⊕ Exploration Hole Proposed
- ⊕ ORE RESERVE HOLE PROPOSED
- ⊕ EXPLORATION HOLE PROPOSED

Week Ending 21-2-80

Aberfoyle Exploration Pty Ltd		
Geology	NORTH WEST TASMANIA QUEEN HILL	
Drawn RJE	1980 DRILL PROGRAMME	
Traced RJE	Location code	
Checked	Date January, 1980	
Revised by RJE Date 4.10.79	Scale 1:2,500	
	Plate No QH 147	

Date February 19, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets for the Queen Hill Drilling Programme.

Hole G59 was completed in volcanics at 216 m.

This completes the Programme of Exploration and Ore Reserve drilling under WP A79/7a.

The new drilling programme will commence as indicated in the previous weeks report.

C.H. Young

C.H. YOUNG.

Hal

G60 @ A3
logged 14.2.80
PHOTODUPLICATED
Comment. 22.2.80
101 for site 7 inc. for.

QUEEN HILL — Diamond Drilling Summary

W/E 14.2.80

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	10.12.79	511.3	3328.6	3180	Dolomitic and carbonaceous siltstone host unit intersected between 362.5 and 472.6m. 30 cm only of weakly replaced dolomite 463.7 - 464 m.	-180	No significant Sn mineralisation. (463.7 - 464 m/0.5% Sn.)
G56	2216.84	787.78	187.03	280.4	-45.7°	13.12.79	21.12.79	283.2	3611.8	3480	Dolomitic and pyritic siltstone unit between 72 and 85 m.	137	No significant Sn mineralisation
G57	1345.4	558.4	219.3	302.25	-55.5°	5. 1.80	11.1.80	307.4	3919.2	2640	Dolomitic and carbonaceous siltstone host unit intersected between 245.9 and 273 m. 60% coarse grained pyrite from 245.9-246.9 m.	25	No significant Sn mineralisation (245.85 - 246.95m) 0.15% Sn.
G58	2160.5	613.1	189.8	100.5	-43.3°	11.1.80	6.2.80	292.0	4211.2	3360	110.1 - 111.1 m 30% Pyrite as veins in siderite rich breccia zone.	116	No significant Sn mineralisation.
G59	2366.4	727.8	200.0	280.25	45.5°	17.1.80	11.2.80	216.0	4427.2	3600	77 - 79 m, old workings. 96.22 - 96.4 m, 20% Pyrite in re-crystallised dolomite. 104.9 - 107.5 m. Fissure lode, sphalerite and galena noted (major core loss).	138 123 118	No significant Sn mineralisation.

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

Handwritten signature and date: 22.2.80

W/E 14.2.80

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G55									11.12.79	10.1.80	19.1.80	21.1.80	15.2.80	19.1.80
G56									5.1.80	3.2.80	8.2.80	11.2.80		8.2.80
G57									12.1.80	25.1.80	1.2.80	4.2.80		15.2.80
G58									7.2.80					
G59									14.2.80	14.2.80	14.2.80			22.2.80

Abertoy's Exploration Pty Ltd

QUEEN HILL

1979 DRILLING PROGRESS

Drawn: R.J.E.

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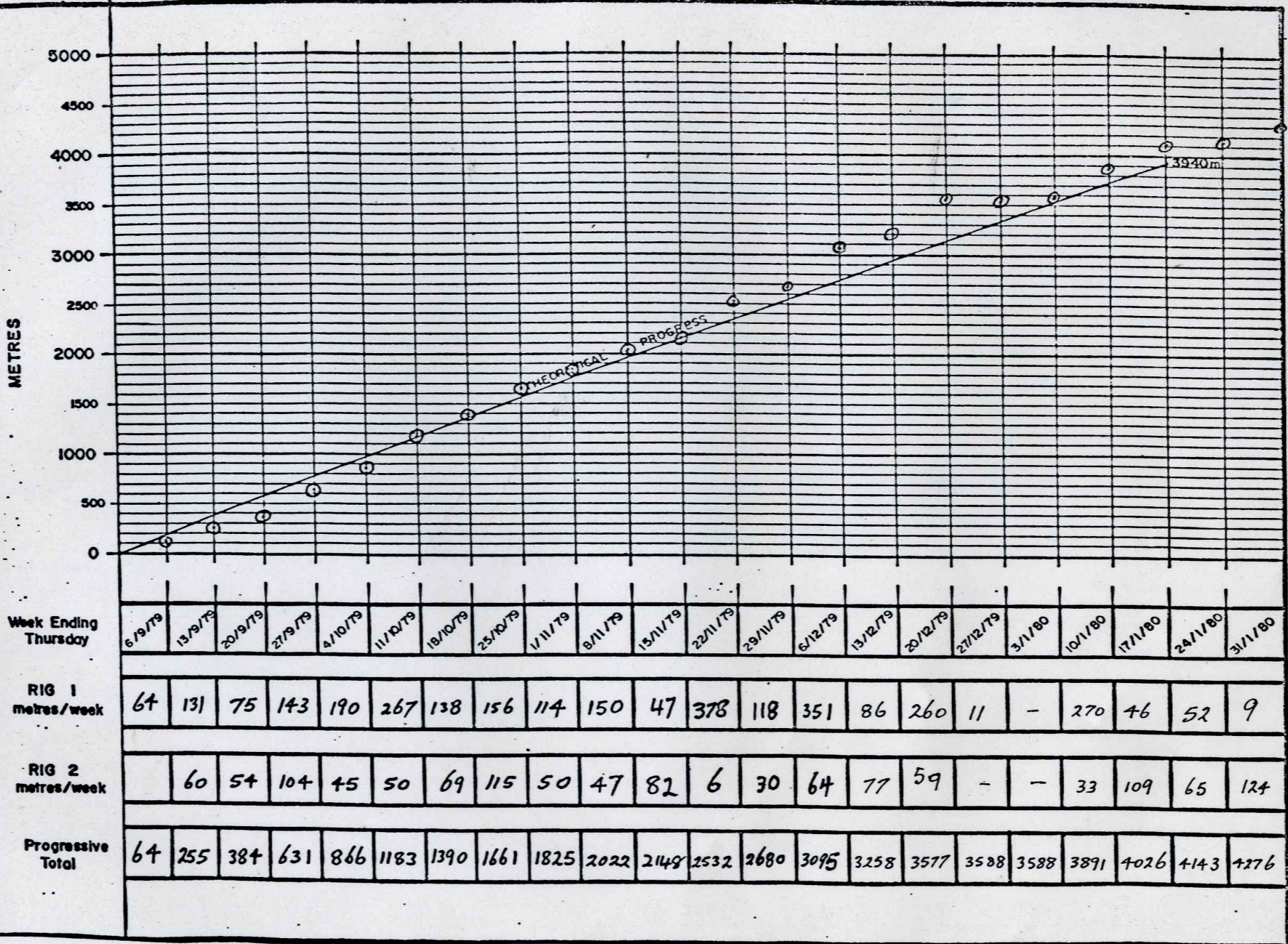
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Revised by:

Location code:
Date: NOV. 1979

Scale:

Plate No



83 56
12 -
4371 4427

Date February 8, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

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Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets for the Queen Hill Drilling Programme.

The Mise-a-la-mass survey around G46 was completed. Preliminary results indicate a weak conductor oriented in a NNE-SSW orientation with a slight asymmetry to the SSW of the G46 intersection.

Hole G58 (Exp 5)

This hole was completed on 6.2.80 at 292.0 m in black carbonaceous siltstones. The hole was stopped as recent interpretation indicated it had passed both the Queen Hill and Stormsdown positions.

Hole G59 (Exp 7)

This hole is in progress at 160 m in the shale quartzite sequence. Old workings were intersected at 75 m. A 2 m galena-siderite lode was intersected 105 and 107 m and a small volcanic unit from 107 to 115.5 m.

The programme is temporarily on one rig - waiting for an L-10 rig to replace the F-30 which completed G58.

The new drilling programme will commence with extension of G50 on Section 3000. This extension should intersect the Queen Hill position at RL 10.

C.H. Young

C.H. YOUNG.

FOR *W.C. Sluiter* 14/12

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	10.12.79	511.3	3328.6	3180	Dolomitic and carbonaceous siltstone host unit intersected between 362.5 and 472.6m. 30 cm only of weakly replaced dolomite 466.2 - 466.6 m. <i>463.7 - 464 m</i>	-180	No significant Sn mineralisation. <i>(463.7 - 464 m / 0.5 m)</i>
G56	2216.84	787.78	187.03	280.4	-45.7°	13.12.79	21.12.79	283.2	3611.8	3480	Dolomitic and pyritic siltstone unit between 72 and 85 m.	137	No significant Sn mineralisation
G57	1345.4	558.4	219.3	302.25	-55.5°	5. 1.80	11.1.80	307.4	3919.2	2640	Dolomitic and carbonaceous siltstone host unit intersected between 245.9 and 273 m. 60% coarse grained pyrite from 245.9-246.9 m.	25	
G58	2160.5	613.1	189.8	100.5	-43.3°	11.1.80	6.2.80	292.0	4211.2	3360	<i>110.1 - 111.1 m Py 30%</i> 30% Pyrite as veins in siderite rich breccia zone.	116.	
G59	2366.4	727.8	200.0	280.25	45.5°	17.1.80	In progress at 160 m. <i>11.2.80</i>	<i>216.0</i>	<i>4427.2</i>	3600	<i>77-79m, old workings.</i> <i>96.22-96.4m, 20% Pyrite in recrystallised dolomite.</i> <i>104.9-107.5m. Feasine lode, sp. Halerite and galena noted (major core loss).</i>	138 123 118	

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

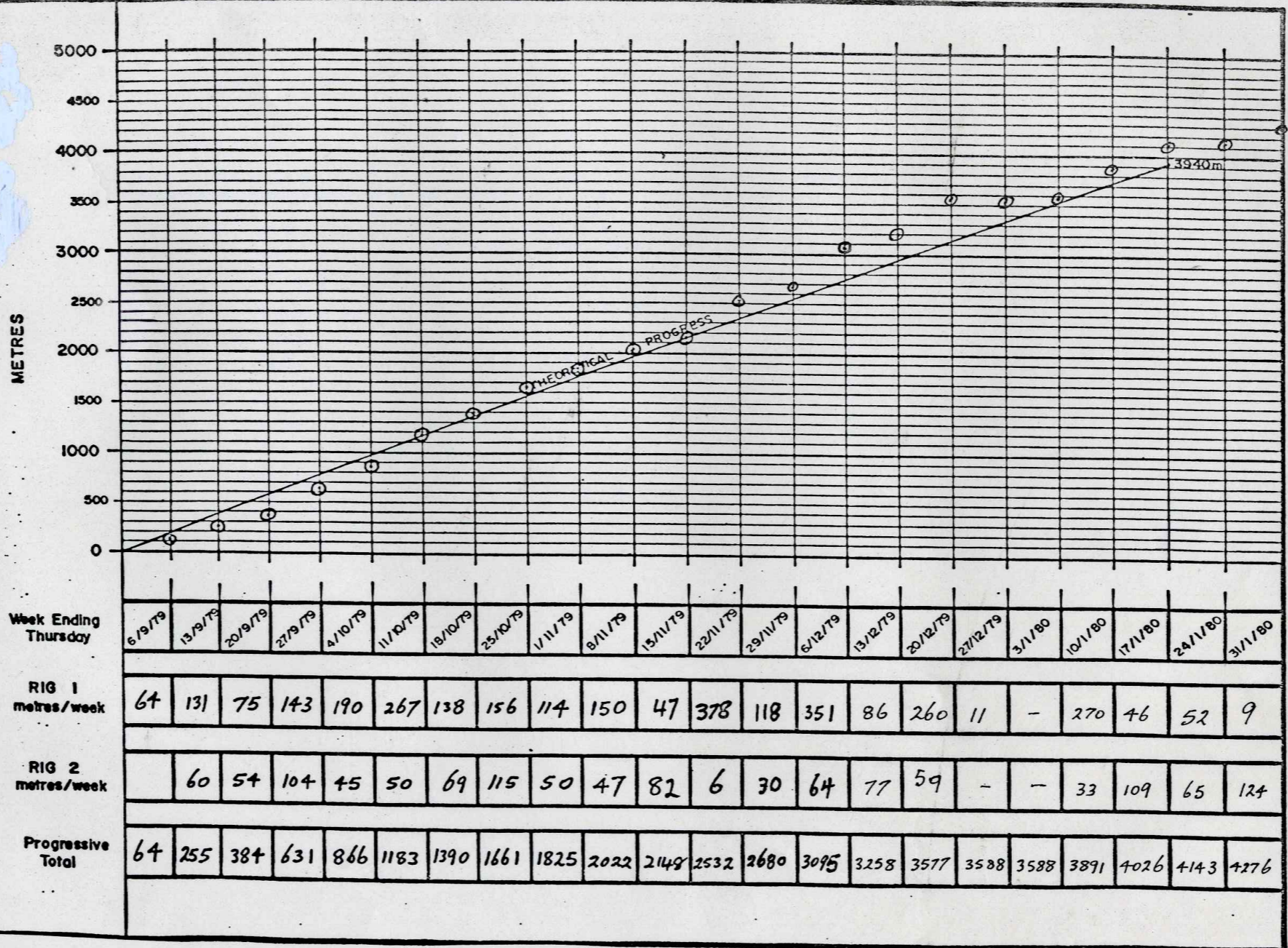
D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G55									11.12.79	10.1.80	19.1.80	21.1.80	15.2.80	19.1.80
G56									5.1.80	3.2.80	8.2.80	11.2.80		8.2.80
G57									12.1.80	25.1.80	1.2.80	4.2.80		15.2.80
G58									7.2.80					
G59									14.2.80	14.2.80	14.2.80	15.2.80		

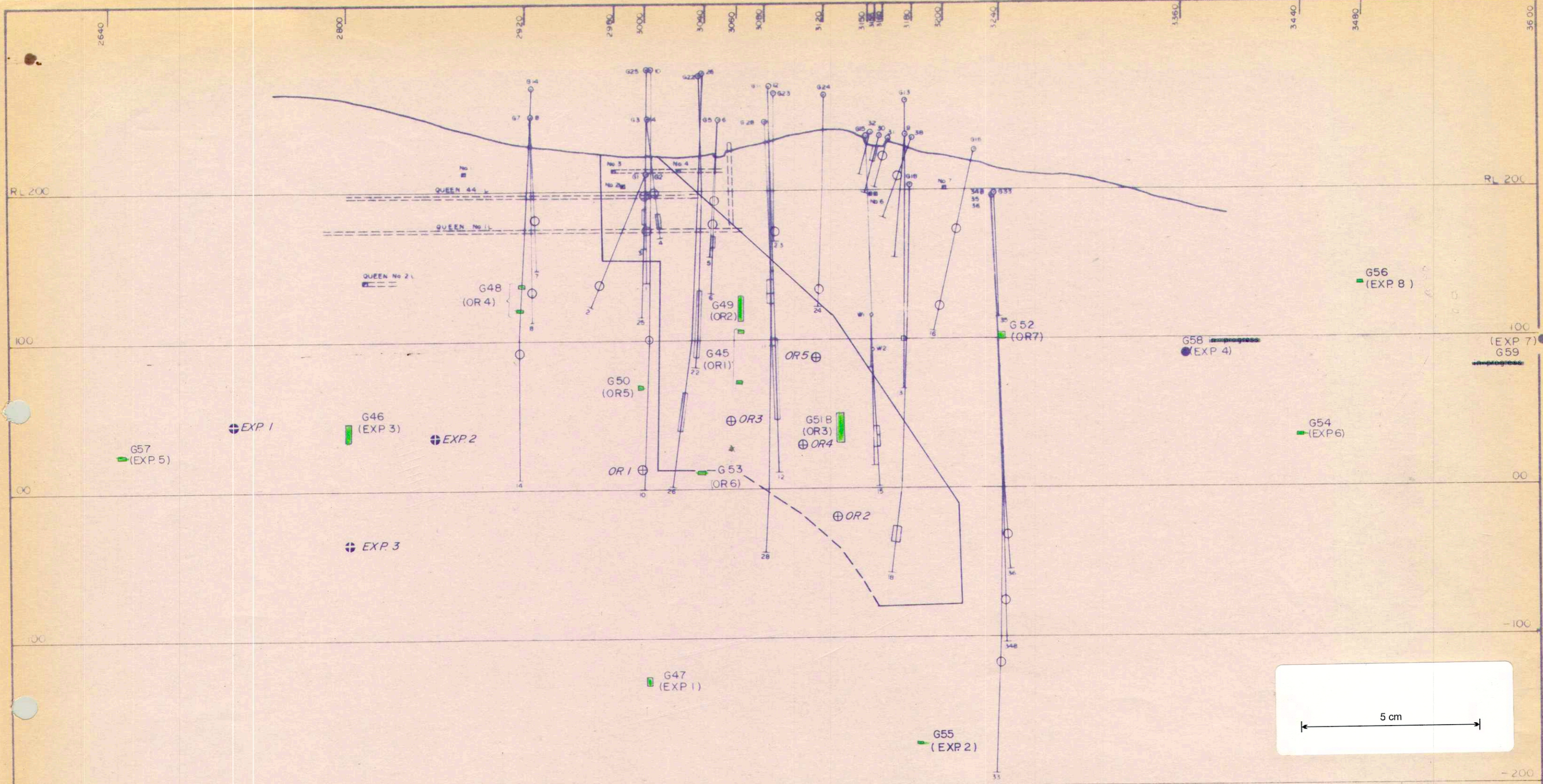
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 Revised by: Date:

1979 DRILLING PROGRESS

Location code:
 Date: Nov. 1979
 Scale:
 Plate No:

Aberfoyle Exploration Pty Ltd





— LEGEND —

- G45 █ Hole Completed
- OR 3 ● Ore Reserve Hole Proposed
- EXP 5 ⊗ Exploration Hole Proposed
- ⊕ ORE RESERVE HOLE PROPOSED
- ⊕ EXPLORATION HOLE PROPOSED

Week Ending 14-2-80

Aberfoyle Exploration Pty Ltd		
Geology	NORTH WEST TASMANIA	
Drawn RJE	QUEEN HILL	
Traced RJE	1980 DRILL PROGRAMME	
Checked		Location code
Revised by RJE Date AUG 79		Date January, 1980
		Scale 1:2,500
		Plate No QH 147

Date February 1, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets for the Queen Hill Drilling Programme.

There was very little progress during the past week. This was principally due to extremely broken ground encountered in G59.

Hole G58 (Exp. 5)

Is in progress at 282 m in black carbonaceous shales. The hole passed from volcanics to a suite of interbedded pyritic siltstones, shales and dolomites at 221.8 m. Between 259.2 and 275 m another volcanic unit was intersected. This hole is now beyond its planned total depth at 250 m but is being extended to fully evaluate the favourable volcanic-siltstone-dolomite stratigraphy.

Hole G59

This hole is currently penetrating old workings at 75 m.

On completion of G58 the programme will temporarily be reduced to 1 drill rig as the F-30 machine drilling G58 is not capable of drilling the planned ore reserve holes, wholly in NQ core size.

Summary sheets for holes G45 - G54 inclusive have not been included with this report nor has a summary long section as there is no change from the previous week (ending 24.1.80).

C. H. Young

C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

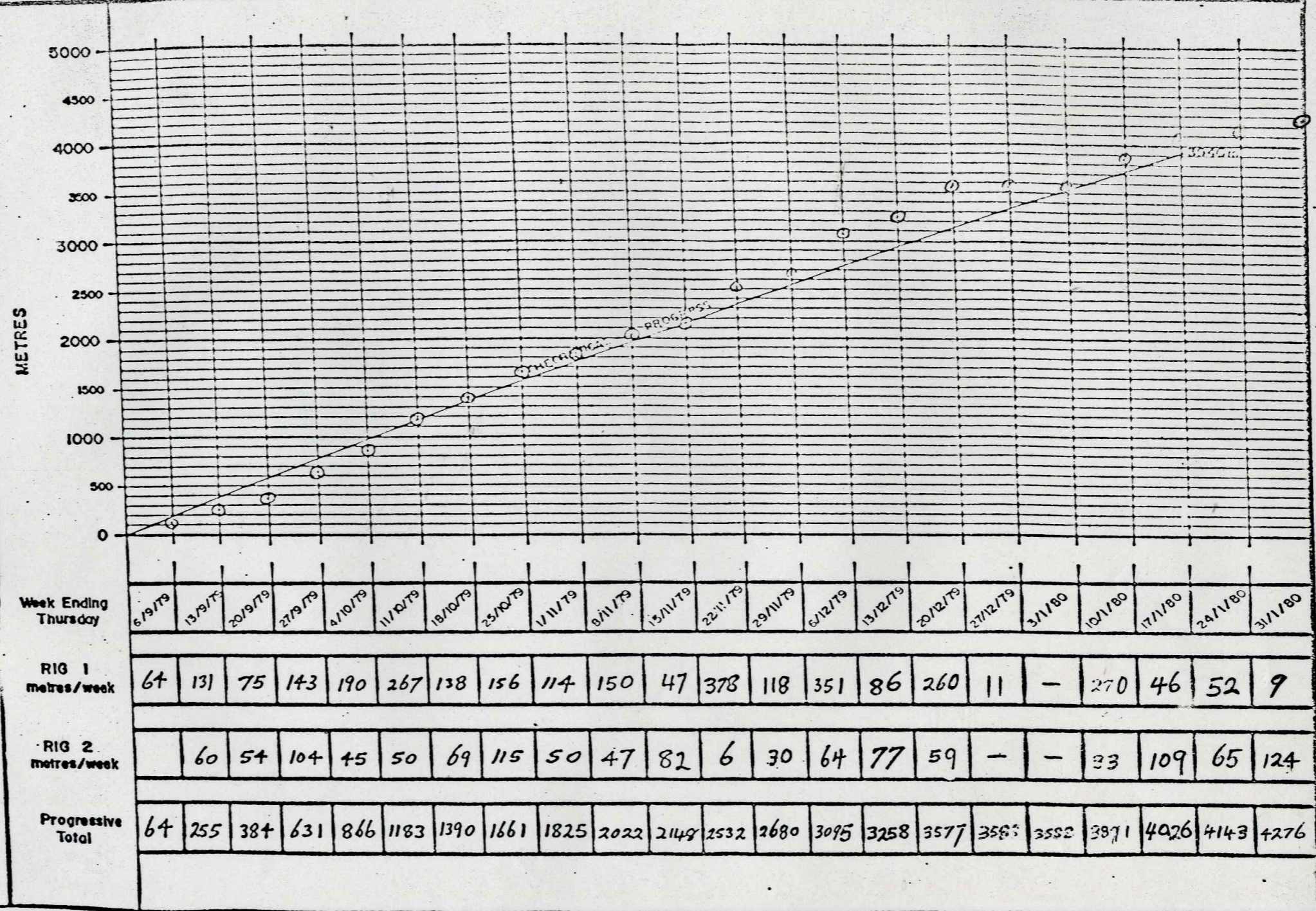
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	North	East											
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	10.12.79	511.3	3328.6	3180	Dolomitic and carbonaceous siltstone host unit intersected between 362.5 and 472.6m. 40 cm only of weakly replaced dolomite 466.2 - 466.6 m.	-170	No significant Sn mineralisation.
G56	2216.84	787.78	187.03	280.4	-45.7°	13.12.79	21.12.79	283.2	3611.8	3480	Dolomitic and pyritic siltstone unit between 72 and 85 m.	137	No significant Sn mineralisation
G57	1345.4	558.4	219.3	302.25	-55.5°	5. 1.80	11.1.80	307.4	3919.2	2640	Dolomitic and carbonaceous siltstone host unit intersected between 245.9 and 273 m. 60% coarse grained pyrite from 245.9-246.9 m.	25	
G58	2160.5	613.1	189.8	100.5	-43.3°	11.1.80	In progress at 282 m. 6.2.80		292.0 4211.2	3360			
G59	2366.4	727.8	200.0	280.25	45.5°	17.1.80	In progress at 75 m. 160			3600			

Drawn: R.J.E.
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 Revised by:
 Date:

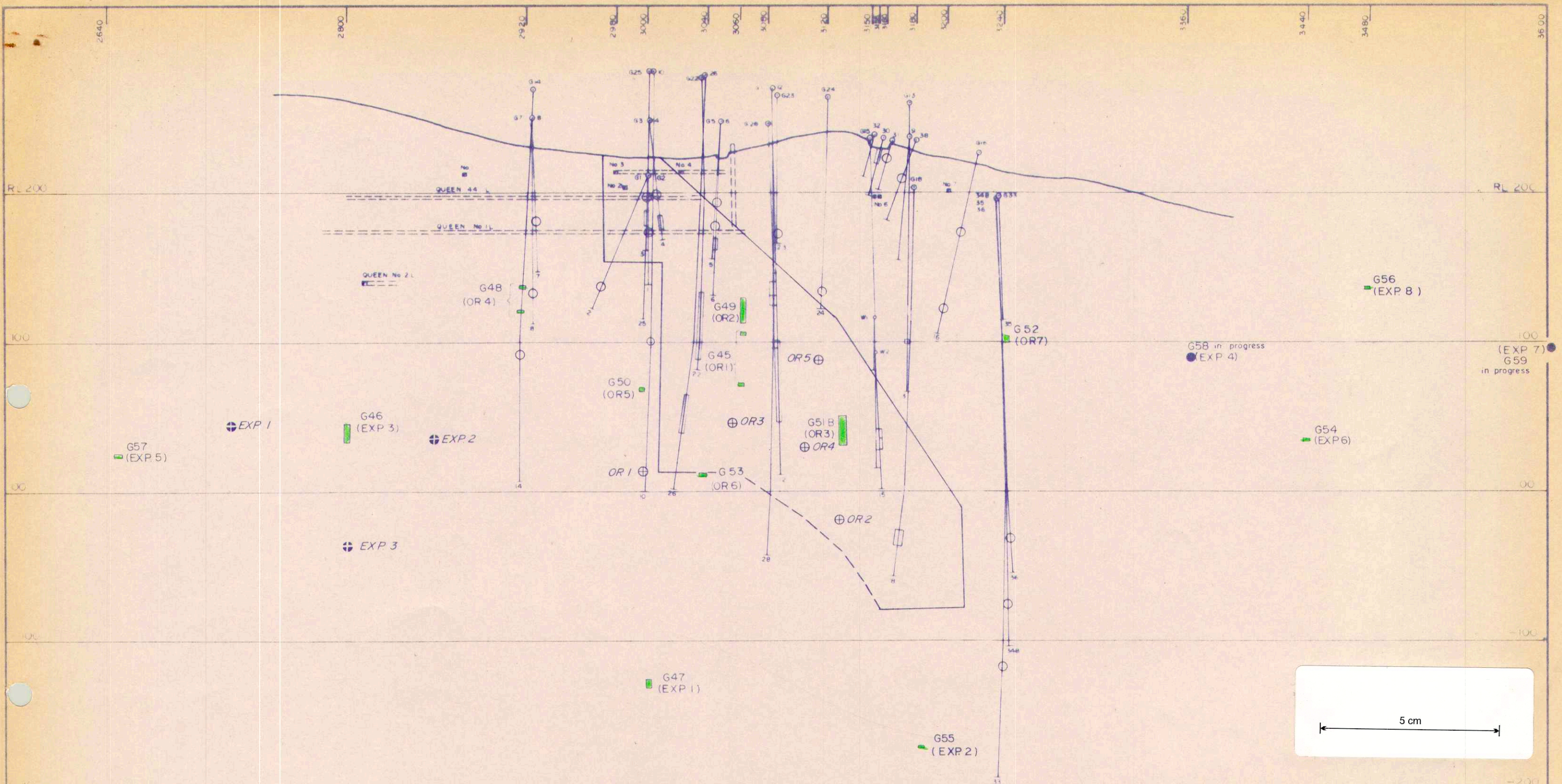
1979 DRILLING PROGRESS
QUEEN HILL

Location code:
 Date: Nov, 1979
 Scale:
 Plate No:

Abertoy's Exploration Pty Ltd



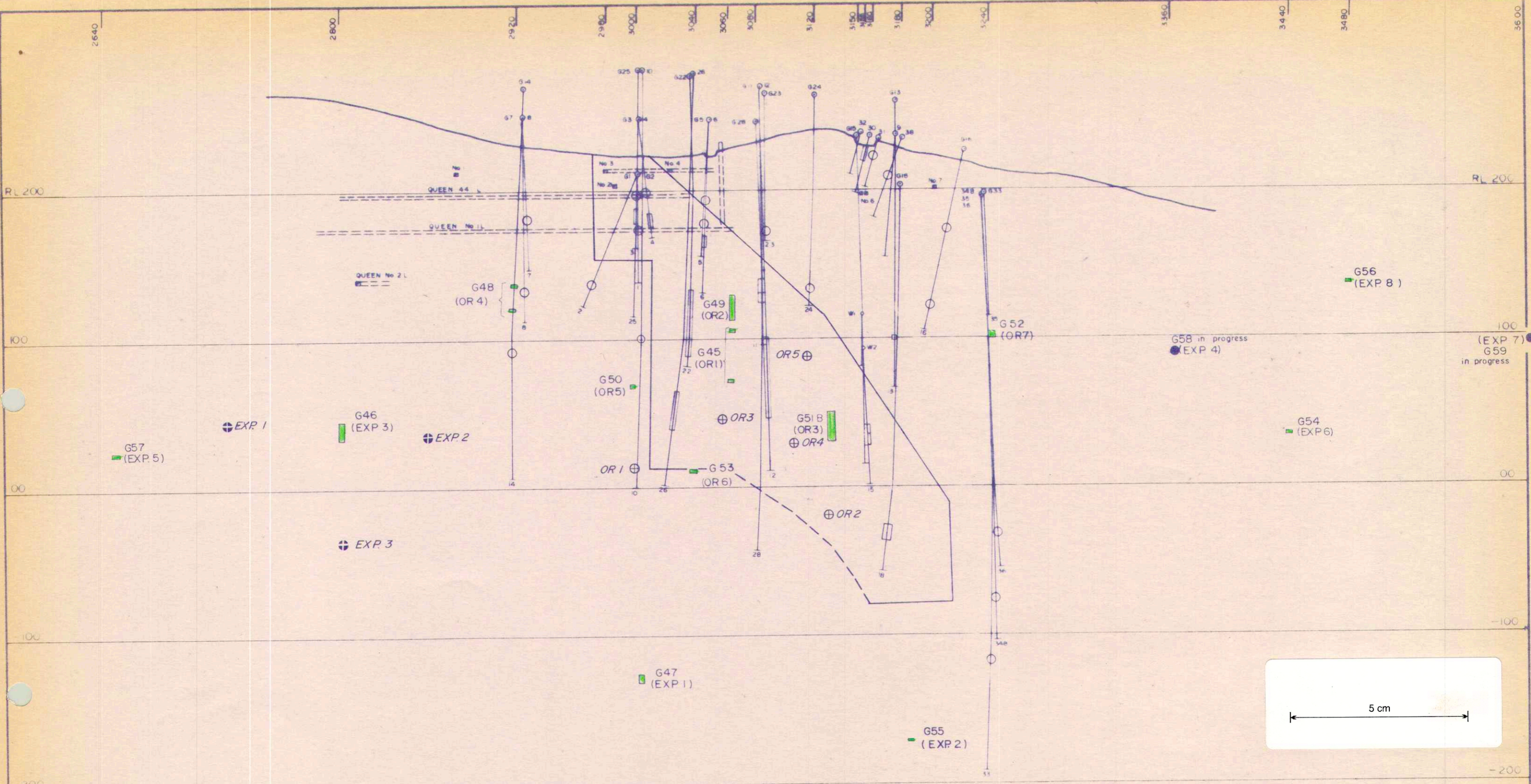
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- LEGEND —
- G 45 █ Hole Completed
 - OR 3 ○ Ore Reserve Hole Proposed
 - EXP 5 ● Exploration Hole Proposed
 - ⊕ ORE RESERVE HOLE PROPOSED
 - ⊕ EXPLORATION HOLE PROPOSED

Week Ending 7-2-80

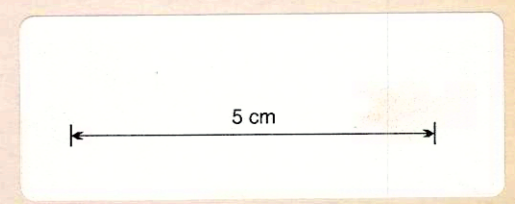
Aberfoyle Exploration Pty Ltd		
Geology	NORTH WEST TASMANIA QUEEN HILL	Location code
Drawn RJE	1980 DRILL PROGRAMME	Date January, 1980
Traced RJE		Scale 1:2,500
Checked		Plate No QH 147
Revised by RJE Date Aug 79		



— LEGEND —

- G45 █ Hole Completed
- OR 3 ○ Ore Reserve Hole Proposed
- EXP 5 ● Exploration Hole Proposed
- ⊕ ORE RESERVE HOLE PROPOSED
- ⊕ EXPLORATION HOLE PROPOSED

Week Ending 7-2-80



Aberfoyle Exploration Pty Ltd		
Geology	NORTH WEST TASMANIA	
Drawn RJE	QUEEN HILL	
Traced RJE	1980 DRILL PROGRAMME	
Checked		
Revised by RJE Date AUG 79		
	Location code	
	Date January, 1980	
	Scale 1:2,500	
	Plate No	QH 147

ABERFOYLE

MEMORANDUM

Date January 25, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets for the Queen Hill Drilling Programme.

Hole G58 (Exp. 5)

Is in progress at 160 m, the hole passed from grey siltstones to volcanics at 145.3 m.

Hole G59 (Exp. 7)

Is in progress at 64 m, in black shales with thin volcanic units. The ground is very broken and drilling is proceeding very slowly.

Drill sites are being prepared for the new ore reserve drill holes.

C. H. Young.

C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G45	(556) 1755.03	(360) 802.39	272.56	282.25	-60°	3. 9.79	21.9.79	257.95	257.95	3060	193.5 m - 243 m Dolomitic and carbonaceous siltstone host unit with coarse grained and stratiform pyrite mineralisation, including some barren carbonate zones. (Bedding at low angle to core axis).	70 to 108	180.75 - 243/0.1% Sn, includes 193.75 - 195.75/ 0.79% Sn, 231-232/ 0.9% Sn and 239-243/ 0.49% Sn.
G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5 to 47	281.12-282.28/ 0.18% Sn includes 16 cm 0.84% Sn.
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m. 400.7-401.7, 10-60% pyrite in shear zone.	-149.5 to -150.3	400.7-401.7/2.52% Sn.
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117 to 120 and 132 to 134	No significant Sn mineralisation.
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 128.0 to 139.8 m. Coarse grained pyrite 40-50% from 139.8 to 156.8 m. Below 156.8 m 1-2 m wide coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	112 to 130	128-156.8/0.79% Sn, includes 128-139.8 m metasomatised 1.59% Sn and 139.8 to 156.8 0.25% Sn.

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G45									12.10.79	23. 9.79	12.10.79	22.10.79	5.11.79	1.11.79
G46									10.10.79	1.11.79	12.10.79	22.10.79	3.12.79	29.11.79
G47									22.10.79	2.11.79	26.10.79	30.10.79	10.11.79	20.12.79
G48									30.10.79	31.10.79	2.11.79	2.11.79	12.11.79	12.12.79
G49									30.10.79	9.11.79	23.11.79	25.11.79	3.12.79	15.12.79

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G50	1781.4	580.0	207.1	103.8	-56.1°	18.10.79	23.10.79	205.7	1651.2	3000	Dolomitic and carbonaceous host unit, intersected between 133 and 202 m. Fine grained stratiform pyrite av. 10% between 172 - 174.5 m.	68 to 70	No significant Sn mineralisation.
G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	8.11.79	277.4	1942.6	3120	Coarse grained 20-30% pyrite lodes to 1m. Between 221-223.4m. 223.4-234.5 c.g. 20-30% pyrite in sideritic dolomite. 234.5-236.9 c.g. 10% pyrite, 236.9 - 237.6 - >50% pyrite, 237.6-253.8 20-25% pyrite, 253.8-254.5 5-10% pyrite, in volcanic tuff.	31 to 51.5	236.9-254.5 m/ 1.35% Sn, includes 236.9 - 245.5 0.49% Sn and 245.5-254.5 2.18% Sn.
G52	2012.7	654.9	199.0	101.4	-44.8°	29.10.79	16.11.79	183.0	2125.6	3240	Coarse grained 10-60% pyrite in sideritic dolomite from 133.2 to 140.5 m.	98.5 to 104	133.2-140.5/ 0.89% Sn.
G53	1851.64	518.99	203.7	100.3	-53.5°	12.11.79	22.11.79	421.0	2546.6	3040	Dolomitic host unit, intersected between 242 and 265.65m. From 256.4 - 262.4m, Py 15-20 as a network of metasomatic veins, modifying f.g. pyritic dolomite.	4.5 to 8.5	256.4 - 262.4 m/ 1.66% Sn.
G54	2077.24	1022.56	180.5	281.1	-38.3°	23.11.79	8.1.80	270.7	2817.3	3440	Intersected the main volcanic contact at 254.8 m. Up to 10% pyrite over short intervals.	39	

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G50									30.10.79	12.11.79	27.11.79	30.11.79		6.12.79
G51									15.11.79	19.2.80				22.2.80
G51B									17.11.79	26.11.79	6.12.79	7.12.79	14.12.79	17.12.79
G52									18.11.79	14.11.79	16.11.79	18.11.79	10.1.80	8.1.80
G53									29.11.79	6.12.79	14.12.79	18.11.79	4.1.80	10.1.80
G54									9.1.80	28.1.80				19.2.80

QUEEN HILL — Diamond Drilling Summary

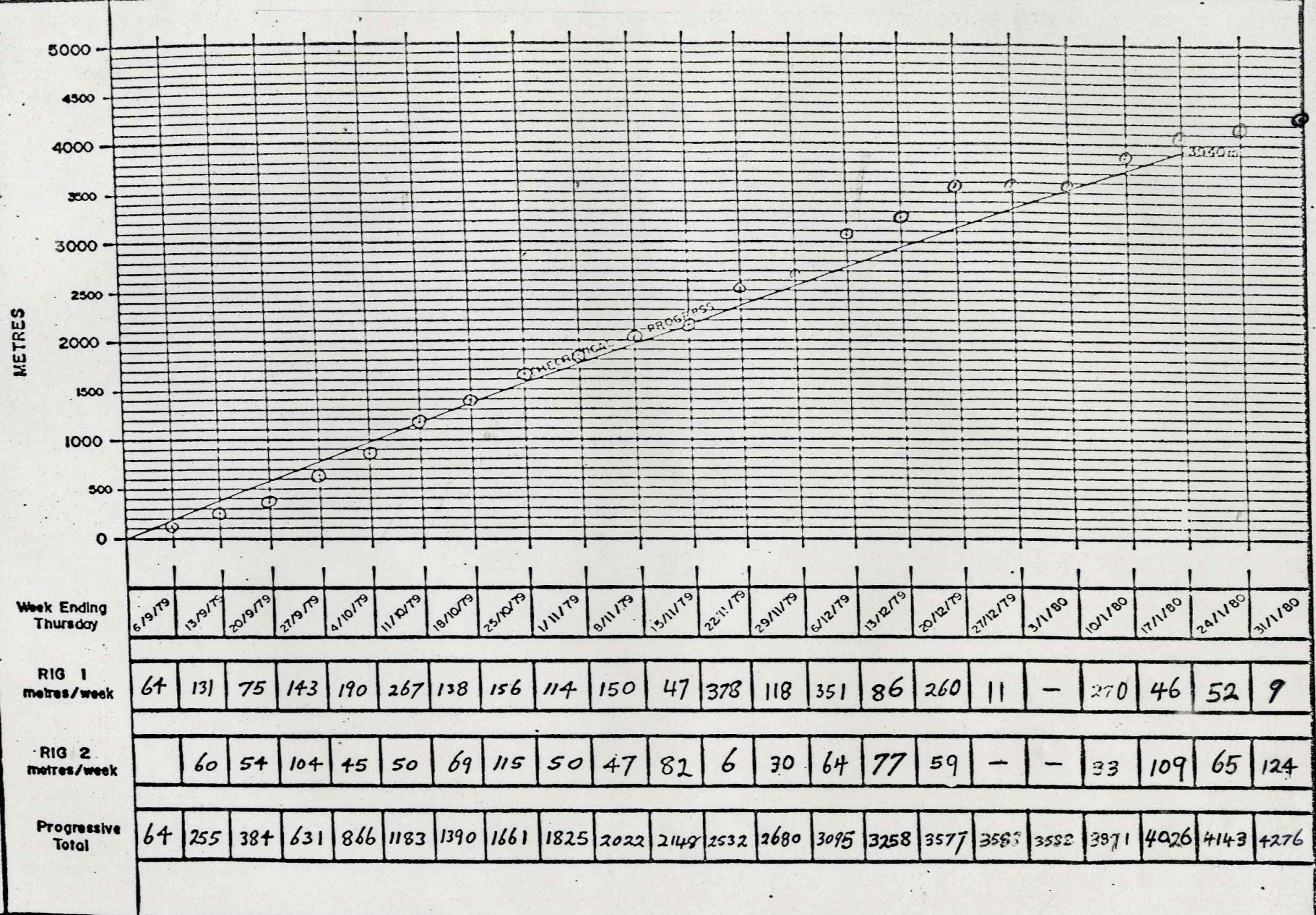
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	North	East											
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	10.12.79	511.3	3328.6	3180	Dolomitic and carbonaceous siltstone host unit intersected between 362.5 and 472.6m. 40 cm only of weakly replaced dolomite 466.2 - 466.6 m.	-170	No significant Sn mineralisation.
G56	2216.84	787.78	187.03	280.4	-45.7°	13.12.79	21.12.79	283.2	3611.8	3480	Dolomitic and pyritic siltstone unit between 72 and 85 m.	137	No significant Sn mineralisation
G57	1345.4	558.4	219.3	302.25	-55.5°	5. 1.80	11.1.80	307.4	3919.2	2640	Dolomitic and carbonaceous siltstone host unit intersected between 245.9 and 273 m. 60% coarse grained pyrite from 245.9-246.9 m.	25	
G58	2160.5	613.1	189.8	100.5	-43.3°	11.1.80	In progress at 160 m. 282 m			3360			
G59	2366.4	727.8	200.0	280.25	45.5°	17.1.80	In progress at 64 m. 75 m			3600			

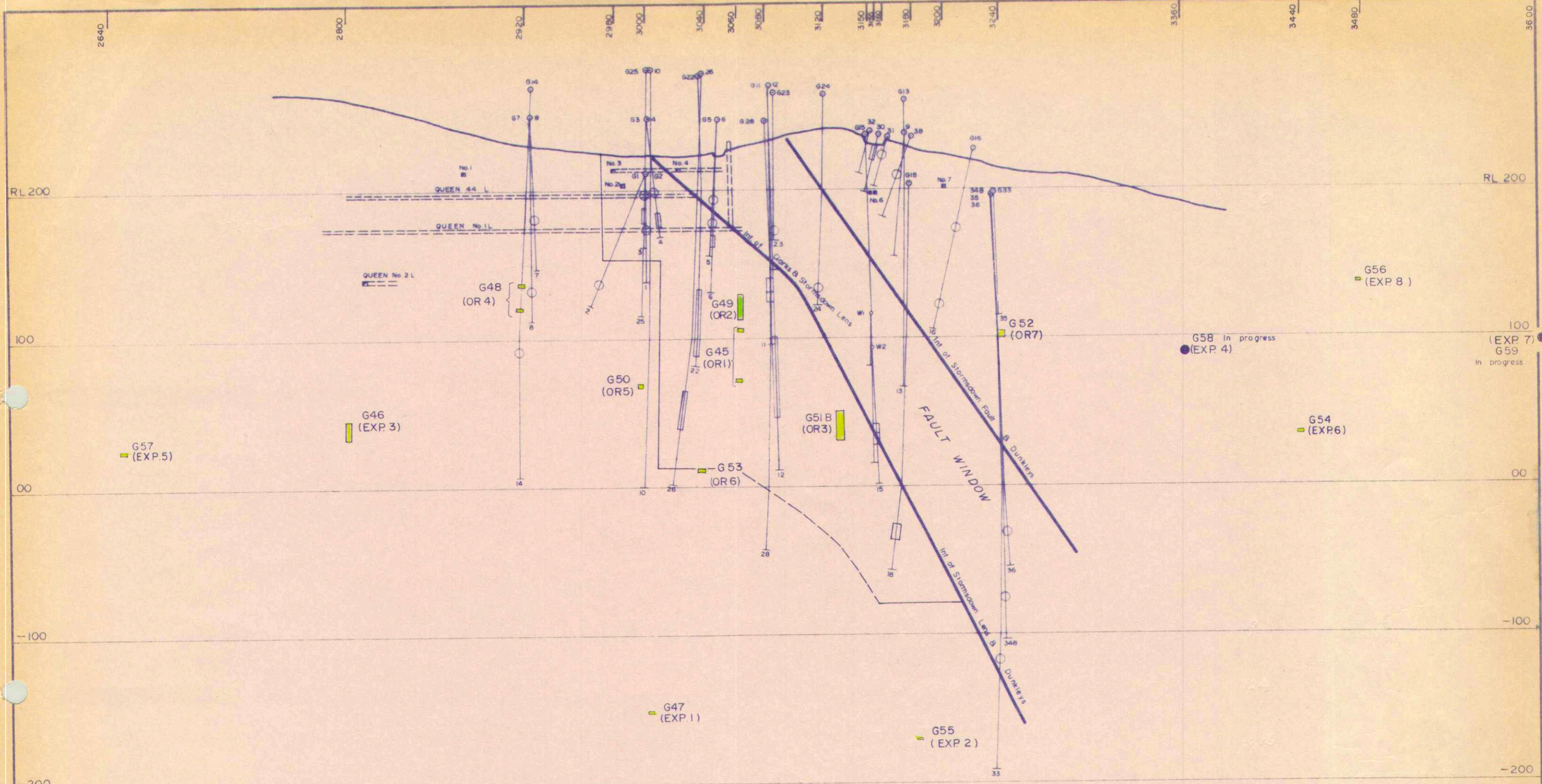
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 Revised by: Date:

QUEEN HILL
 1979 DRILLING PROGRESS

Location code:
 Date: Nov. 1979
 Scale:
 Plate No:

Aberfoyle Exploration Pty Ltd

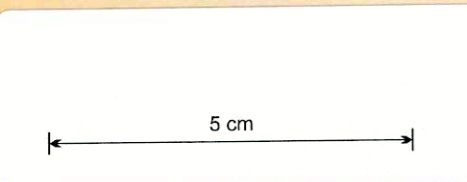




— LEGEND —

- G45 Hole Completed
- OR 3 Ore Reserve Hole Proposed
- EXP 5 Exploration Hole Proposed

Week Ending 24-1-80



Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA QUEEN HILL	
Drawn: RJE	1979 DRILL PROGRAMME	
Traced: RJE	Location code	
Checked:	Date May, 1979	
Revised by: RJE Date AUG 79	Scale: 1:2500	
	Plate No	

Date January 21, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets for the Queen Hill Drilling Programme.

Hole G46 (Exp. 3)

The mise-a-la-masse survey was delayed and is expected to commence on 26.1.1980.

Hole G57 (Exp. 5)

Was completed at 307.4 m on 11.1.1980 in volcanics. Above 307.4 m there are patches of weak pyrite mineralisation within the volcanics, some intervals will be assayed to check for Sn mineralisation.

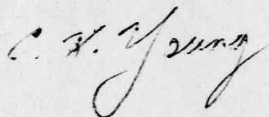
Hole G58 (Exp. 4)

Commenced on 11.1.1980 in grey siltstones and is currently at 102 m.

Hole G59 (Exp. 7)

Commenced on 17.1.1980 in black shales and is currently at 21 m.

Hole G59 is the last hole in WPA79-7A. The drilling programme will continue under a new work proposal. The first hole will be for ore reserves on section 3000, designed to test adjacent to the G53 intersection.



C.H. YOUNG.

QUEEN HILL - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G45	(556) 1755.03	(360) 802.39	272.56	282.25	-60°	3. 9.79	21.9.79	257.95	257.95	3060	193.5 m - 243 m Dolomitic and carbonaceous siltstone host unit with coarse grained and stratiform pyrite mineralisation, including some barren carbonate zones. (Bedding at low angle to core axis).	70 to 108	180.75 - 243/0.1% Sn, includes 193.75 - 195.75/ 0.79% Sn, 231-232/ 0.9% Sn and 239-243/ 0.49% Sn.
G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5 to 47	281.12-282.28/ 0.18% Sn includes 16 cm 0.84% Sn.
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m. <i>400.7-401.7, 10-60% PYRITE IN SHEAR ZONE.</i>	152 to 128 -150.3	No significant Sn mineralisation. <i>400.7-401.7 / 2.52% Sn</i>
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117 to 120 and 132 to 134	No significant Sn mineralisation.
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 128.0 to 139.8 m. Coarse grained pyrite 40-50% from 139.8 to 156.8 m. Below 156.8 m 1-2 m wide coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	112 to 130	128-156.8/0.79% Sn, includes 128-139.8 m metasomatised 1.59% Sn and 139.8 to 156.8 0.25% Sn.

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G45									12.10.79	23. 9.79	12.10.79	22.10.79	5.11.79	1.11.79
G46									10.10.79	1.11.79	12.10.79	22.10.79	3.12.79	29.11.79
G47									22.10.79	2.11.79	26.10.79	30.10.79	10.11.79	20.12.79
G48									30.10.79	31.10.79	2.11.79	2.11.79	12.11.79	12.12.79
G49									30.10.79	9.11.79	23.11.79	25.11.79	3.12.79	15.12.79

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elev-ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G50	1781.4	580.0	207.1	103.8	-56.1°	18.10.79	23.10.79	205.7	1651.2	3000	Dolomitic and carbonaceous host unit, intersected between 133 and 202 m. Fine grained stratiform pyrite av. 10% between 172 - 174.5 m.	68 to 70	No significant Sn mineralisation.
G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	8.11.79	277.4	1942.6	3120	Coarse grained 20-30% pyrite lodes to 1m. Between 221-223.4m. 223.4-234.5 c.g. 20-30% pyrite in sideritic dolomite. 234.5-236.9 c.g. 10% pyrite, 236.9 - 237.6 - >50% pyrite, 237.6-253.8 20-25% pyrite, 253.8-254.5 5-10% pyrite, in volcanic tuff.	31 to 51.5	236.9-254.5 m/ 1.35% Sn, includes 236.9 - 245.5 0.49% Sn and 245.5-254.5 2.18% Sn.
G52	2012.7	654.9	199.0	101.4	-44.8°	29.10.79	16.11.79	183.0	2125.6	3240	Coarse grained 10-60% pyrite in sideritic dolomite from 133.2 to 140.5 m.	98.5 to 104	133.2-140.5/ 0.89% Sn.
G53	1851.64	518.99	203.7	100.3	-53.5°	12.11.79	22.11.79	421.0	2546.6	3040	Dolomitic host unit, intersected between 242 and 265.65m. From 256.4 - 262.4m, Py 15-20 as a network of metasomatic veins, modifying f.g. pyritic dolomite.	4.5 to 8.5	256.4 - 262.4 m/ 1.66% Sn.
G54	2077.24	1022.56	180.5	281.1	-38.3°	23.11.79	8.1.80	270.7	2817.3	3440	Intersected the main volcanic contact at 254.8 m. Up to 10% pyrite over short intervals.	39	

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section	
G50									30.10.79	12.11.79	27.11.79	30.11.79		6.12.79	
G51									15.11.79						
G51B									17.11.79	26.11.79	6.12.79	7.12.79	14.12.79	17.12.79	
G52									18.11.79	14.11.79	16.11.79	18.11.79	10.1.80	8.1.80	
G53									29.11.79	6.12.79	14.12.79	18.11.79	4. 1.80	10.1.80	
G54									9. 1.80						

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	10.12.79	511.3	3328.6	3180	Dolomitic and carbonaceous siltstone host unit intersected between 362.5 and 472.6m. 40 cm only of weakly replaced dolomite 466.2 - 466.6 m.	-170	No significant Sn mineralisation.
G56	2216.84	787.78	187.03	280.4	-45.7°	13.12.79	21.12.79	283.2	3611.8	3480	Dolomitic and pyritic siltstone unit between 72 and 85 m.	137	No significant Sn mineralisation
G57	1345.4	558.4	219.3	302.25	-55.5°	5. 1.80	11.1.80	307.4	3919.2	2640	Dolomitic and carbonaceous siltstone host unit intersected between 245.9 and 273 m. 60% coarse grained pyrite from 245.9-246.9 m.	25	
G58	2160.5	643.1	189.8	100.5	-43.3°	11.1.80	In progress at 102 160 m.			3360			
G59	2366.4	727.8	199 200.0	280.25	45.5°	17.1.80	In progress at 64 m			3600			

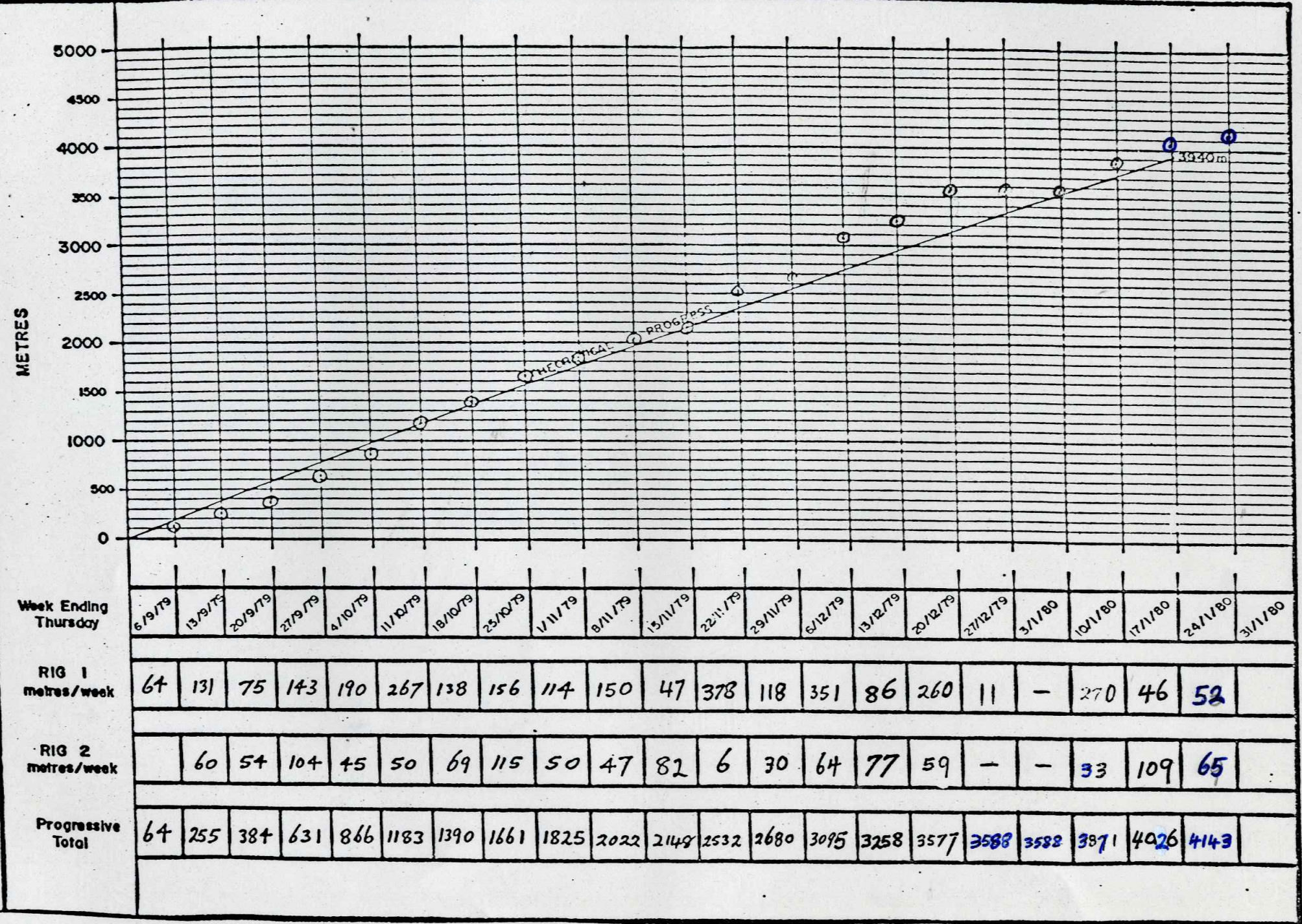
290.50
11.15
280.25

Aberfayio Exploration Pty Ltd

Drawn: R.J.E.
 Traced:
 Checked:
 Revised by:
 Date:

QUEEN HILL
 1979 DRILLING PROGRESS

Location code:
 Date: Nov. 1979
 Scale:
 Plate No



Date January 11, 1980.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets for the Queen Hill Drilling Programme. Drilling commenced for the New Year on 3.1.1980.

Hole G46 (Exp. 3)

The down hole I.P. electrode was finally seated at 282 m on 7.1.1980. It is anticipated the mise a la masse survey will commence on 19.1.1980.

Hole G54 (Exp. 6)

The hole proceeded in black carbonaceous siltstone to 240.2 m and then passed through an internal volcanic unit from 240.2 to 250.7 m, going back into black carbonaceous siltstone. The hole entered the main volcanic unit at 254.8 where there is minor pyrite mineralisation and was completed at 270.7 m. The source of the target I.P. anomaly appears to be carbonaceous siltstones.

This rig has moved to drill exploration 4 as G58. Setting up is in progress.

Hole G57 (Exp. 5)

Commenced in the quartzite-shale sequence, passing through an internal volcanic unit from 183.8 to 239.8 m, then the quartzite shale sequence again. At 245.9 m the hole entered the siltstone-dolomite sequence. From 245.9 to 246.9 m there is 60% coarse grained pyrite with a siliceous matrix. The hole intersected the main volcanic unit at 273 m where there is minor pyrite mineralisation. The hole is still in progress.

When complete this rig will move to drill exploration hole No. 7.

Exploration 7 will be the last hole in WP A79-7A. Continuity of the programme is anticipated with a further 5 ore reserve holes and 3 exploration holes. Drill sites are being prepared accordingly.

C.H. Young

C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G45	(556) 1755.03	(360) 802.39	272.56	282.25	-60°	3. 9.79	21.9.79	257.95	257.95	3060	193.5 m - 243 m Dolomitic and carbonaceous siltstone host unit with coarse grained and stratiform pyrite mineralisation, including some barren carbonate zones. (Bedding at low angle to core axis).	70 to 108	180.75 - 243/0.1% Sn, includes 193.75 - 195.75/ 0.79% Sn, 231-232/ 0.9% Sn and 239-243/ 0.49% Sn.
G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5 to 47	281.12-282.28/ 0.18% Sn includes 16 cm 0.84% Sn. ✓
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m.	-132 to -128	No significant Sn mineralisation.
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117 to 120 and 132 to 134	No significant Sn mineralisation.
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 128.0 to 139.8 m. Coarse grained pyrite 40-50% from 139.8 to 156.8 m. Below 156.8 m 1-2 m wide coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	112 to 130	128-156.8/0.79% Sn, includes 128-139.8 m metasomatised 1.59% Sn and 139.8 to 156.8 0.25% Sn.

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G45									12.10.79	23. 9.79	12.10.79	22.10.79	5.11.79	1.11.79
G46									10.10.79	1.11.79	12.10.79	22.10.79	3.12.79	29.11.79
G47									22.10.79	2.11.79	26.10.79	30.10.79	10.11.79	20.12.79
G48									30.10.79	31.10.79	2.11.79	2.11.79	12.11.79	12.12.79
G49									30.10.79	9.11.79	23.11.79	25.11.79	3.12.79	15.12.79

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G50	1781.4	580.0	207.1	103.8	-56.1°	18.10.79	23.10.79	205.7	1651.2	3000	Dolomitic and carbonaceous host unit, intersected between 133 and 202 m. Fine grained stratiform pyrite av. 10% between 172 - 174.5 m.	68 to 70	No significant Sn mineralisation.
G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	8.11.79	277.4	1942.6	3120	Coarse grained 20-30% pyrite lodes to 1m. Between 221-223.4m. 223.4-234.5 c.g. 20-30% pyrite in sideritic dolomite. 234.5-236.9 c.g. 10% pyrite, 236.9 - 237.6 - >50% pyrite, 237.6-253.8 20-25% pyrite, 253.8-254.5 5-10% pyrite, in volcanic tuff.	31 to 51.5	236.9-254.5 m/ 1.35% Sn, includes 236.9 - 245.5 0.49% Sn and 245.5-254.5 2.18% Sn.
G52	2012.7	654.9	199.0	101.4	-44.8°	29.10.79	16.11.79	183.0	2125.6	3240	Coarse grained 10-60% pyrite in sideritic dolomite from 133.2 to 140.5 m.	98.5 to 104	133.2-140.5/ 0.89% Sn. ✓
G53	1851.64	518.99	203.7	100.3	-53.5°	12.11.79	22.11.79	421.0	2546.6	3040	Dolomitic host unit, intersected between 242 and 265.65m. From 256.4 - 262.4m, Py 15-20 as a network of metasomatic veins, modifying f.g. pyritic dolomite.	4.5 to 8.5	256.4 - 262.4 m/ 1.66% Sn. ✓
G54	2077.24	1022.56	180.5	281.1	-38.3°	23.11.79	8.1.80	270.7	2817.3	3440	Intersected the main volcanic contact at 254.8 m. Up to 10% pyrite over short intervals.	39	

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section	
G50									30.10.79	12.11.79	27.11.79	30.11.79		6.12.79	
G51									15.11.79						
G51B									17.11.79	26.11.79	6.12.79	7.12.79	14.12.79	17.12.79	
G52									18.11.79	14.11.79	16.11.79	18.11.79	10.1.80	8.1.80	
G53									29.11.79	6.12.79	14.12.79	18.11.79	4. 1.80	10.1.80	
G54									9. 1.80						

QUEEN HILL — Diamond Drilling Summary

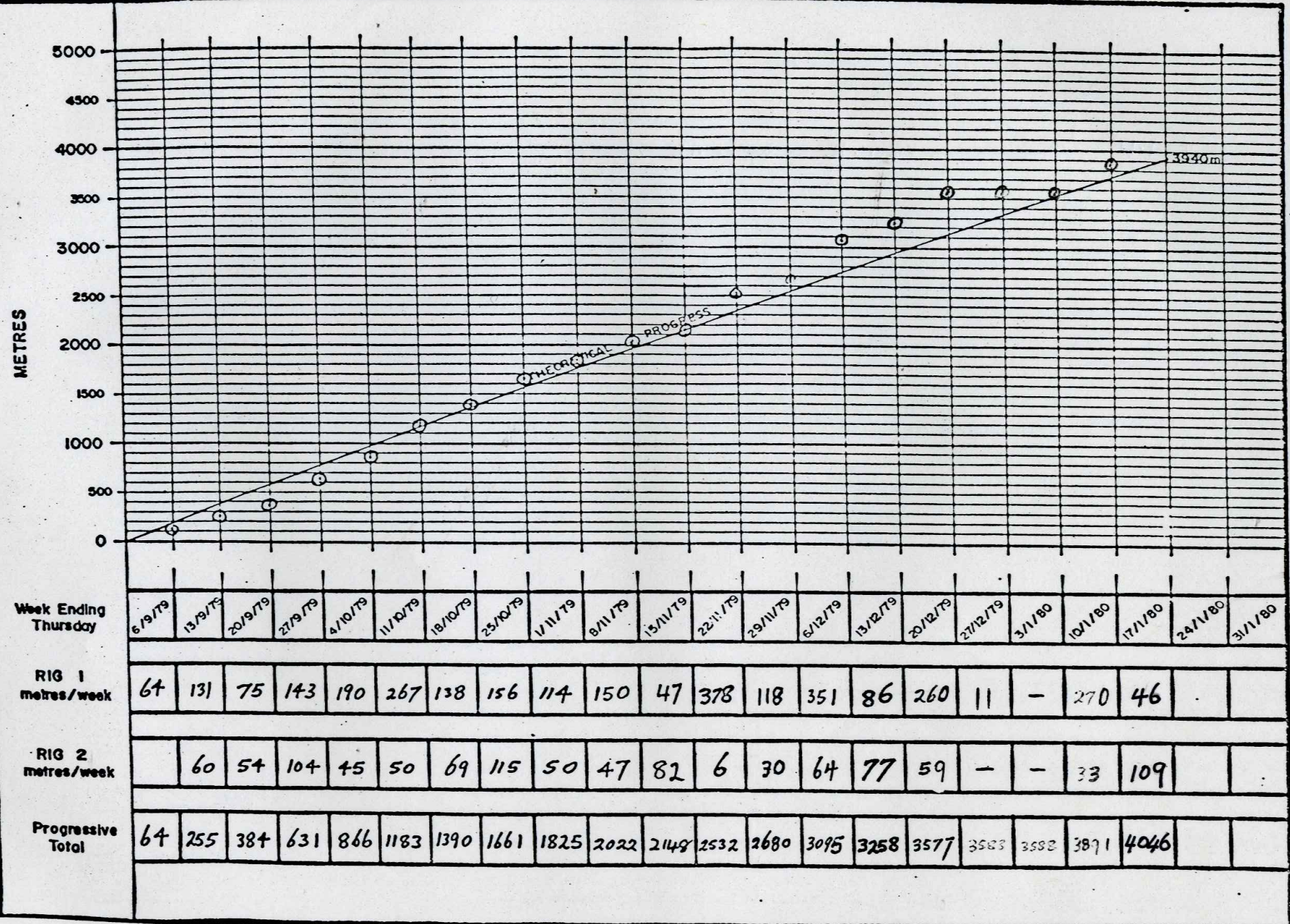
D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	10.12.79	511.3	3328.6	3180	Dolomitic and carbonaceous siltstone host unit intersected between 362.5 and 472.6m. 40 cm only of weakly replaced dolomite 466.2 - 466.6 m.	-170	No significant Sn mineralisation.
G56	2216.84	787.78	187.03	280.4	-45.7°	13.12.79	21.12.79	283.2	3611.8	3480	Dolomitic and pyritic siltstone unit between 72 and 85 m.	137	No significant Sn mineralisation
G57	1345.4	558.4	219.3	302.25	-55.4°	5. 1.80	11.1.80 In progress at 279 m.	307.4		2640	Dolomitic and carbonaceous siltstone host unit intersected between 245.9 and 273 m. 60% coarse grained pyrite from 245.9-246.9 m.	25	
G58							In progress at 102 m			3360			

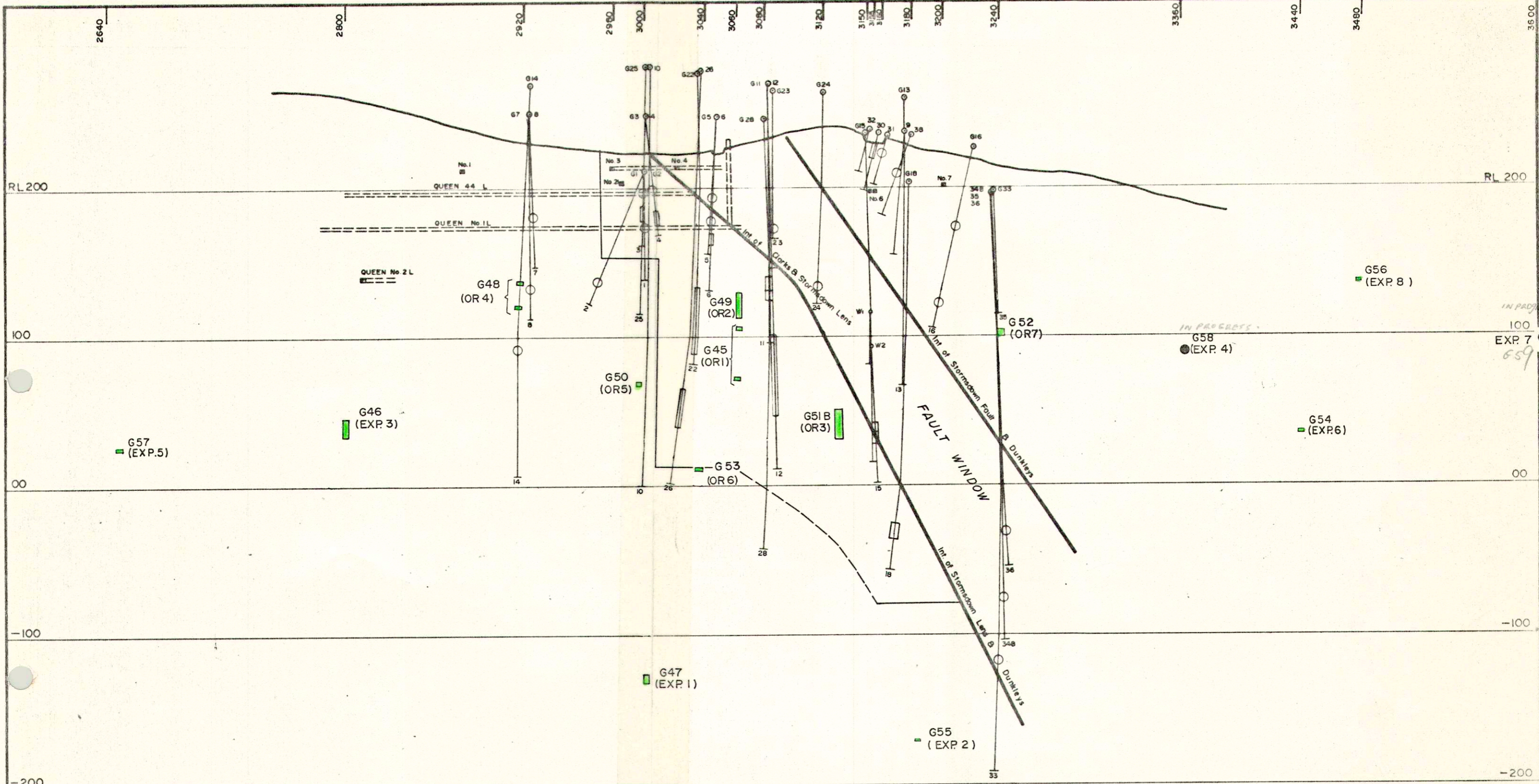
Aberfoyle Exploration Pty Ltd

Drawn: R.J.E.
 Traced:
 Checked:
 Revised by: Date:

**QUEEN HILL
 1979 DRILLING PROGRESS**

Location code:
 Date: NOV. 1979
 Scale:
 Plate No





— LEGEND —

- G45 Hole Completed
- OR 3 Ore Reserve Hole Proposed
- EXP 5 Exploration Hole Proposed

Week Ending 10-1-1980

5 cm

Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA QUEEN HILL 1979 DRILL PROGRAMME	
Drawn: R.J.E.		
Traced: R.J.E.		
Checked:		
Revised by: R.J.E Date: AUG 79		
Location code:		
Date: May, 1979		
Scale: 1:2500		
Plate No		

Date December 21, 1979.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

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Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Drilling will cease for the Christmas break between 21st December and 3rd January.

Hole G46 (Exp 3)

Due to caving ground conditions the I.P. electrode has not yet been successfully positioned. Further attempts will be made using the BQ drill string as a guide.

Hole G54 (Exp 6)

This hole is still in progress, now at 236 m. At 210.9 m the hole passed from the shale/quartzite sequence into a short interval of pyritic siltstone and dolomite (210.9 - 212.3 m). From 212.3 m to 236 m the hole has passed through black carbonaceous siltstone. The hole will continue until the volcanic contact is reached.

Hole G56 (Exp 8)

This hole passed from volcanics to dolomite and pyritic siltstone at 72 m. At 85 m the hole entered a sequence of black shale with very minor light grey siltstone and rare dolomite. Between 217 - 262 m there are contorted dark grey-black carbonaceous siltstones. Between 262 - 283.2 m (E.O.H.) the hole intersected unmineralised volcanics.

This rig will be moved to drill exploration 5 on section 2640.

C.H. Young

C.H. YOUNG.

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QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G45	(556) 1755.03	(360) 802.39	272.56	282.25	-60°	3. 9.79	21.9.79	257.95	257.95	3060	193.5 m - 243 m Dolomitic and carbonaceous siltstone host unit with coarse grained and stratiform pyrite mineralisation, including some barren carbonate zones. (Bedding at low angle to core axis).	70 to 108	180.75 - 243/0.1% Sn, includes 193.75 - 195.75/ 0.79% Sn, 231-232/ 0.9% Sn and 239-243/ 0.49% Sn.
G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5 to 47	281.12-282.28/ 0.18% Sn includes 16 cm 0.84% Sn.
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m.	-132 to -128	No significant Sn mineralisation.
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117 to 120 and 132 to 134	No significant Sn mineralisation.
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 128.0 to 139.8 m. Coarse grained pyrite 40-50% from 139.8 to 156.8 m. Below 156.8 m 1-2 m wide coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	112 to 130	128-156.8/0.79% Sn, includes 128-139.8 m metasomatised 1.59% Sn and 139.8 to 156.8 0.25% Sn.

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G45									12.10.79	23. 9.79	12.10.79	22.10.79	5.11.79	1.11.79
G46									10.10.79	1.11.79	12.10.79	22.10.79	3.12.79	29.11.79
G47									22.10.79	2.11.79	26.10.79	30.10.79	10.11.79	20.12.79
G48									30.10.79	31.10.79	2.11.79	2.11.79	12.11.79	12.12.79
G49									30.10.79	9.11.79	23.11.79	25.11.79	3.12.79	15.12.79

QUEEN HILL - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G50	1781.4	580.0	207.1	103.8	-56.1°	18.10.79	23.10.79	205.7	1651.2	3000	Dolomitic and carbonaceous host unit, intersected between 133 and 202 m. Fine grained stratiform pyrite av. 10% between 172 - 174.5 m.	68 to 70	No significant Sn mineralisation.
G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	8.11.79	277.4	1942.6	3120	Coarse grained 20-30% pyrite lodes to 1m. Between 221-223.4m 223.4-234.5 c.g. 20-30% pyrite in sideritic dolomite. 234.5-236.9 c.g. 10% pyrite, 236.9 - 237.6 - >50% pyrite, 237.6-253.8 20-25% pyrite, 253.8-254.5 5-10% pyrite, in volcanic tuff.	31 to 51.5	236.9-254.5 m 1.35% Sn, includes 236.9 - 245.5 0.49% Sn and 245.5-254.5 2.18% Sn.
G52	2012.7	654.9	199.0	101.4	-44.8°	29.10.79	16.11.79	183.0	2125.6	3240	Coarse grained 10-60% pyrite in sideritic dolomite from 133.2 to 140.5 m.	98.5 100 to 103.5 104	133.2 - 140.5 / 0.8% Sn
G53	1851.64	518.99	203.7	100.3	-53.5°	12.11.79	22.11.79	421.0	2546.6	3040	Dolomitic host unit, intersected between 242 and 265.65m. From 256.4 - 261.5 m, Py 15-20 as a network of metasomatic veins, modifying f.g. pyritic dolomite.	4.5 to 8.5	256.4 - 262.4 m / 1.66% Sn
G54	2077.24	1022.56	180.5	281.1	-38.3°	23.11.79	In progress at 236 m. 8.1.80 237m 270.7		2817.3	3440	INTERSECTED THE MAIN VOLCANIC CONTACT AT 254.8 m. UP TO 10% PYRITE OVER SHORT INTERVALS.	39	

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section	
G50									30.10.79	12.11.79	27.11.79	30.11.79		6.12.79	
G51									15.11.79						
G51B									17.11.79	26.11.79	6.12.79	7.12.79	14.12.79	17.12.79	
G52									18.11.79	14.11.79	16.11.79	18.11.79	10.1.80	8.1.80	
G53									29.11.79	6.12.79	14.12.79	18.11.79	4.1.80	10.1.80	
G54									9.1.80						

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates North East		Elev- ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
G55	1986.6	567.4	191.6	102.3 ⁰	-59.25 ⁰	27.11.79	10.12.79	511.3	3328.6	3180	Dolomitic and carbonaceous siltstone host unit intersected between 362.5 and 472.6m. 40 cm only of weakly replaced dolomite 466.2 - 466.6 m.	-170	No significant Sn mineralisation.
G56	2216.84	787.79	197.03	280.4 ⁰	-47.5 ⁰	13.12.79	21.12.79	283.2	3611.8	3480	Dolomitic and pyritic siltstone unit between 72 and 85 m.	137	No significant Sn mineralisation
G57	1345.4	558.4		302 ⁸⁰ 25 ⁰	-55.4 ⁰	5.1.79	In Progress at 279m			2640	Dolomitic and CARBONACEOUS SILTSTONE HOST UNIT INTERSECTED BETWEEN 245.9 and 273 m. 60% C.G. PYRITE FROM 245.9 - 246.9 m.	25	
G58										3360			

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G55									11.12.79	10.1.80				
G56									5.1.80					

Aberfoyle Exploration Pty Ltd

Drawn: R.J.E.

Traced:

Checked:

Revised by:

Location code:

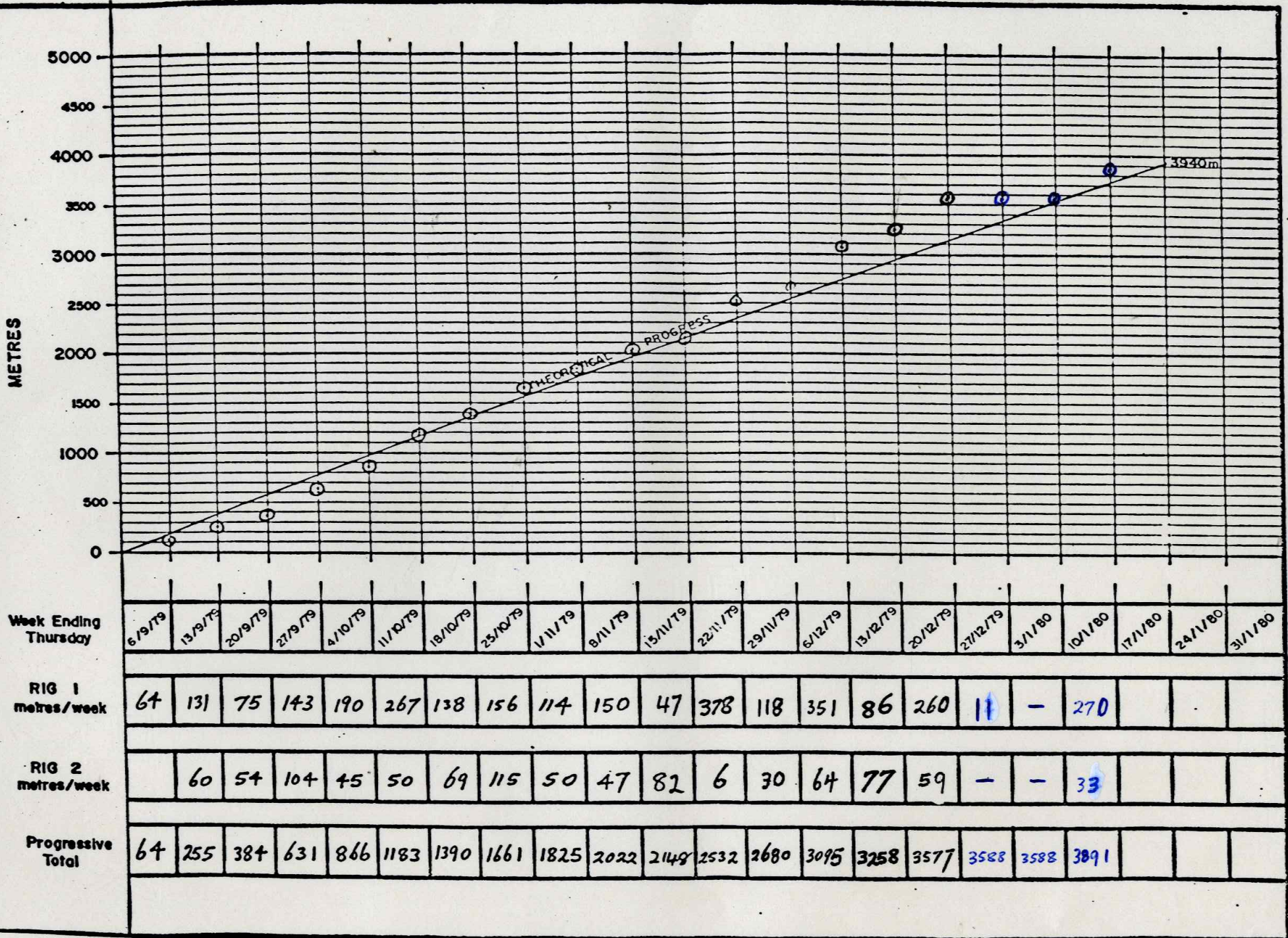
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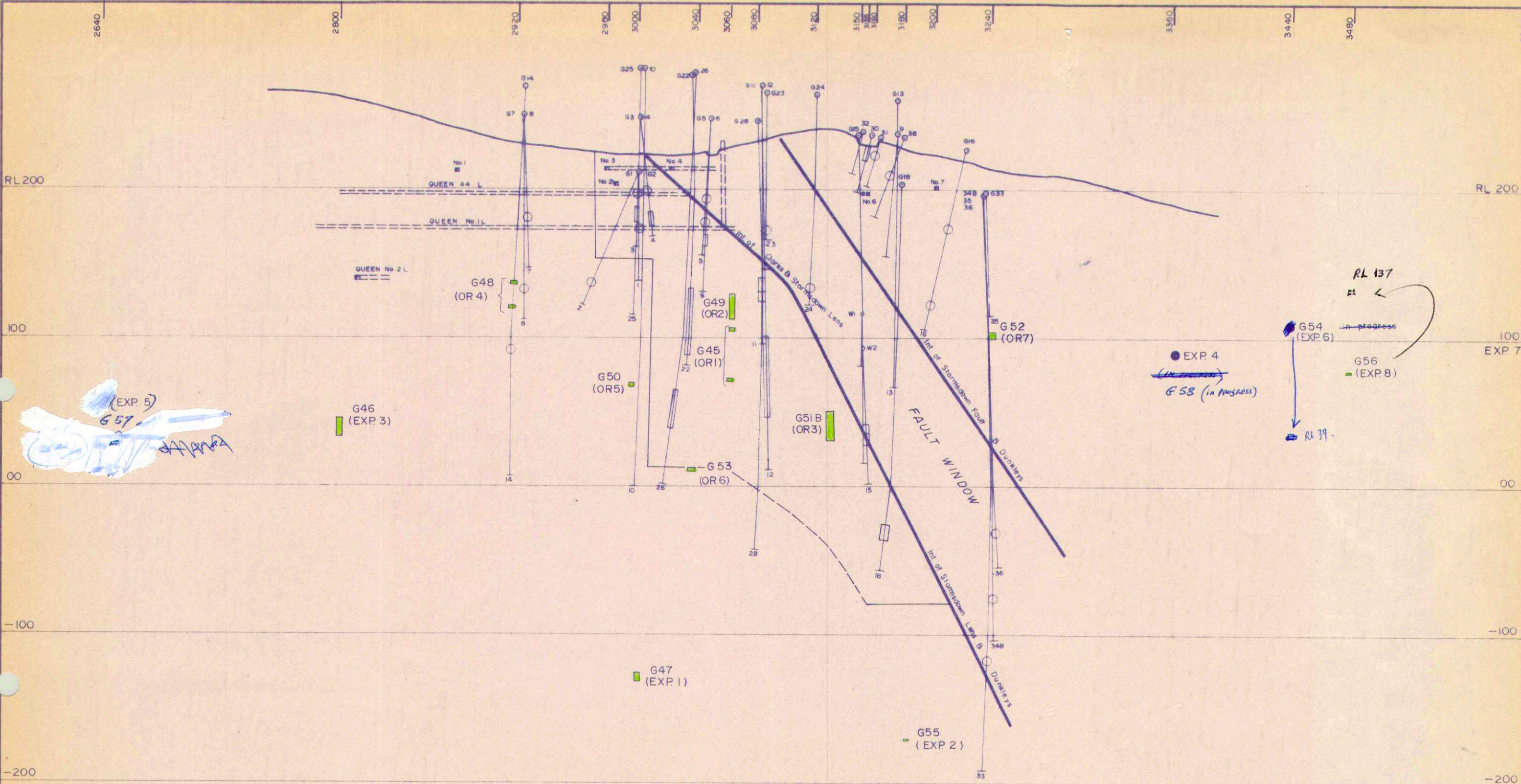
Scale:

Plate No

QUEEN HILL

1979 DRILLING PROGRESS

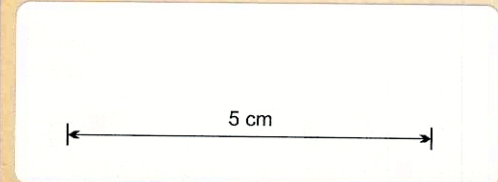




— LEGEND —

- G45 Hole Completed
- OR 3 Ore Reserve Hole Proposed
- EXP 5 Exploration Hole Proposed

Week Ending 20/12/79



Aberfoyle Exploration Pty Ltd		
Geology	NORTH WEST TASMANIA	
Drawn: RJE	QUEEN HILL	
Traced: RJE	1979 DRILL PROGRAMME	
Checked:		
Revised by: RJE Date AUG 79		Location code
		Date: May, 1979
		Scale: 1:2500
		Plate No

Date December 17, 1979.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Hole G46

The cemented fault zone in this hole will be drilled out, using a third rig, enabling the normal two rig programme to continue unhindered.

Hole G51B

* The interval 236.9 - 254.5 (17.6 m) assays 1.35% Sn. This interval is wholly within volcanic tuff and is clearly defined. The interval 245.5 - 254.5 (9 m) in the vicinity of a faulted zone, assays 2.18% Sn.

Hole G53

Achieved a short interval of mineralised dolomite between 256.4 - 261.5 m. Samples have just been dispatched for assay.

Hole G54

Is in progress at 175 m in the Quartzite/Shale sequence. Progress is slow due to very broken ground.

Hole G55

Was completed at 511.3 m in volcanics. The interval 362.5 - 472.6 consisted of black siltstones, and dolomites with syngenetic pyrite beds at 436.3 - 437.3 and 464 - 472.1, including 40 cm of weakly replaced dolomite between 463.6 and 464.

Hole G56 (Exp 8)

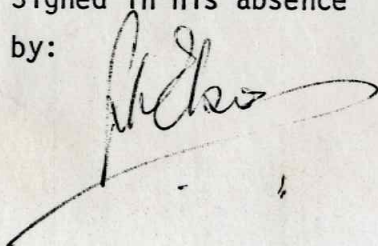
Was commenced on 13.12.79. This hole is designed to intersect the western contact of the main volcanic unit where there are I.P. and S.P. anomalies.

The hole is in progress at 25 m in volcanics.

C.H. YOUNG.

Signed in his absence

by:



QUEEN HILL - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elev-ation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G45	(556) 1755.03	(360) 802.39	272.56	282.25	-60°	3. 9.79	21.9.79	257.95	257.95	3060	193.5 m - 243 m Dolomitic and carbonaceous siltstone host unit with coarse grained and stratiform pyrite mineralisation, including some barren carbonate zones. (Bedding at low angle to core axis).	70 to 108	180.75 - 243/0.1% Sn, includes 193.75 - 195.75/ 0.79% Sn, 231-232/ 0.9% Sn and 239-243/ 0.49% Sn.
G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5 to 47	281.12-282.28/ 0.18% Sn includes 16 cm 0.84% Sn.
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m.	-132 to -128	No significant Sn mineralisation.
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117 to 120 and 132 to 134	No significant Sn mineralisation.
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 128.0 to 139.8 m. Coarse grained pyrite 40-50% from 139.8 to 156.8 m. Below 156.8 m 1-2 m wide coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	112 to 130	128-156.8/0.79% Sn, includes 128-139.8 m metamatised 1.59% Sn and 139.8 to 156.8 0.25% Sn.

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G45									12.10.79	23. 9.79	12.10.79	22.10.79	5.11.79	1.11.79
G46									10.10.79	1.11.79	12.10.79	22.10.79	3.12.79	29.11.79
G47									22.10.79	2.11.79	26.10.79	30.10.79	10.11.79	20.12.79
G48									30.10.79	31.10.79	2.11.79	2.11.79	12.11.79	12.12.79
G49									30.10.79	9.11.79	23.11.79	25.11.79	3.12.79	15.12.79

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G50	1781.4	580.0	207.1	103.8	-56.1°	18.10.79	23.10.79	205.7	1651.2	3000	Dolomitic and carbonaceous host unit, intersected between 133 and 202 m. Fine grained stratiform pyrite av. 10% between 172 - 174.5 m.	68 to 70	No significant Sn mineralisation.
G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	8.11.79	277.4	1942.6	3120	Coarse grained 20-30% pyrite lodes to 1m. Between 221-223.4m. 223.4-234.5 c.g. 20-30% pyrite in sideritic dolomite. 234.5-236.9 c.g. 10% pyrite, 236.9 - 237.6 - >50% pyrite, 237.6-253.8 20-25% pyrite, 253.8-254.5 5-10% pyrite, in volcanic tuff.	31 to 51.5	236.9-254.5 m 1.35% Sn, includes 236.9 - 245.5 0.49% Sn and 245.5-254.5 2.18% Sn.
G52	2012.7	654.9	199.0	101.4	-44.8°	29.10.79	16.11.79	183.0	2125.6	3240	Coarse grained 10-60% pyrite in sideritic dolomite from 133.6 to 143.6 m.	100 to 103.5	
G53	1851.64	518.99	203.7	100.3	-53.5°	12.11.79	22.11.79	421.0	2546.6	3040	Dolomitic host unit, intersected between 242 and 265.65m. From 256.4 - 261.5 m, Py 15-20 as a network of metasomatic veins, modifying f.g. pyritic dolomite.	4.5 to 8.5	
G54	2077.24	1022.56	180.5	281.1	-38.3°	23.11.79	In progress at 175 m. 236.						

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	10.12.79	511.3		3180	Dolomitic and carbonaceous siltstone host unit intersected between 362.5 and 472.6m. 40 cm only of weakly replaced dolomite 466.2 - 466.6 m.	-170	No significant Sn mineralisation.
G56						13.12.79	In progress at 25 m. 283.2			3480	Dolomitic and pyritic siltstone unit between 72 and 85 m	137	No significant Sn mineralisation

Aberfoyle Exploration Pty Ltd

Drawn: R.J.E.

Traced:

Checked:

Revised By:

QUEEN HILL

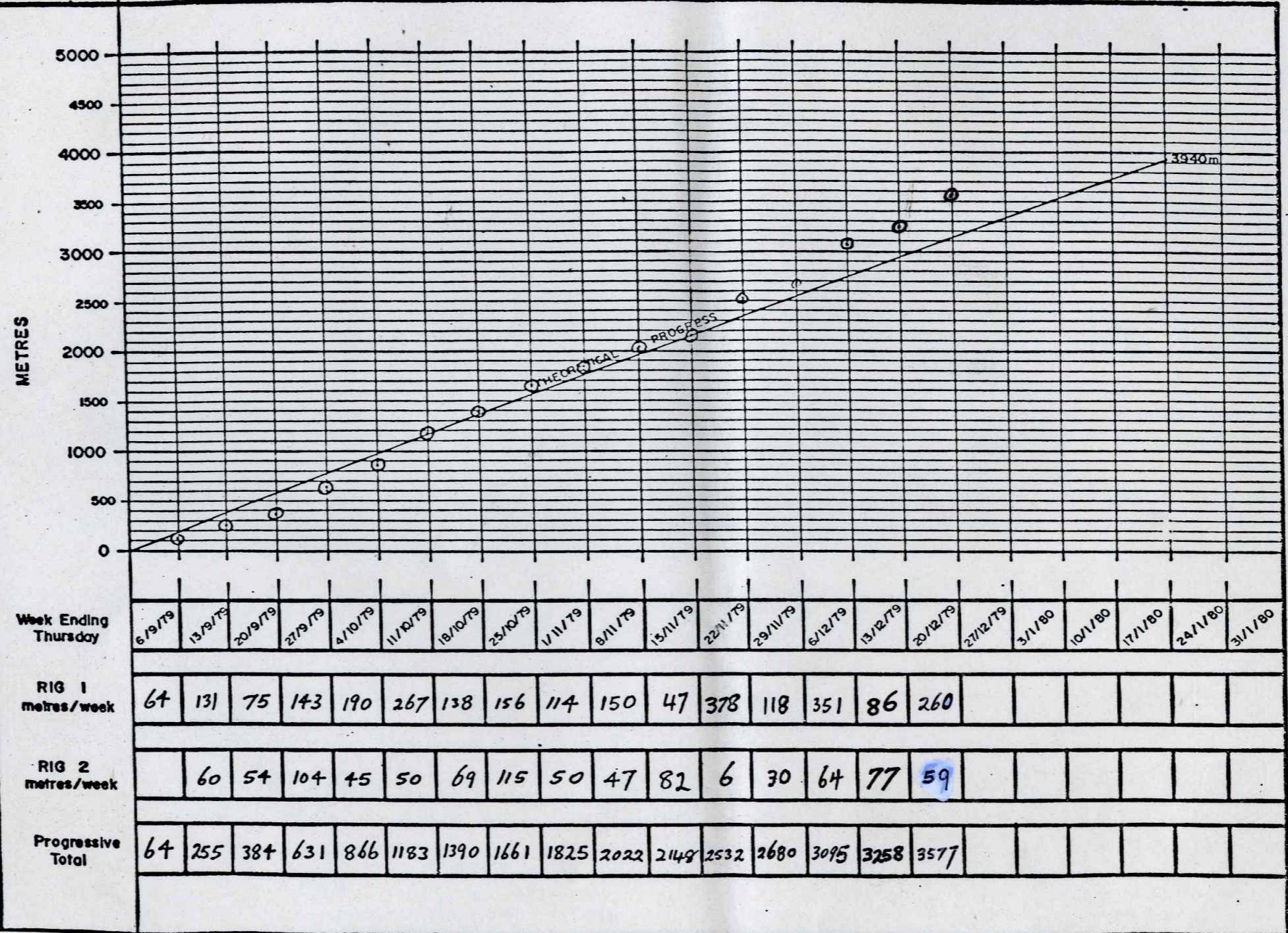
1979 DRILLING PROGRESS

Location code:

Date: Nov. 1979

Scale:

Plate No



Date December 7, 1979.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards.

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Hole G49

The interval 128 - 156.8 (28.8 m) assays overall 0.79% Sn. Of this interval, metasomatised and mineralised (15-20% Py) pyritic dolomite occurs from 128 to 139.8 m. (11.8 m) and assays 1.59% Sn. This is the obvious main ore zone. The above interval also includes 5 m (134.8 - 139.8) of 177.3 gms Ag/Tonne.

From 139.8 to 156.8 (17 m) there is a zone of coarse grained 30-40% pyrite in a siliceous breccia? with open space textures (chalcedonic agate-form textures), this zone assays 0.25% Sn. Within the above zone there is some stannite veining which decreases below 145.8 m. For example the interval 139.8-145.8 (16 m) assays 0.4% Sn, whereas the interval 145.8 - 156.8 (11 m) assays 0.17% Sn. In my opinion there is no obvious geological boundary at 145.8 m.

Hole G51B

Contains some visible cassiterite mineralisation essentially in a volcanic unit. It is anticipated significant Sn mineralisation will occur in the interval 236.9 - 254.75 m. Samples were dispatched for assay on 7.12.79.

Hole G54

Is in progress at 98.2 m. The hole commenced in grey shales and siltstones. At 25.5 m passed into quartzite and then at 50.2 into a quartzite-shale sequence.

Between 51 - 51.3 m and 52 - 52.3 m, pyrite-sphalerite-galena lodes were intersected.

Hole G55

Is in progress at 450 m. The hole commenced in volcanics, passed into siltstone at 68.4 m then volcanics again at 205.8 m. At 363.7 the hole passed into grey siltstone then quartzite from 429.7 - 436.3 m.

Between 436.3 and 438 there is 20-40% syngenetic bedded pyrite then unmineralised dolomite.

When this hole is complete the rig will move to G46 and drill out cement left to stabilise a fault zone, in order that a down hole I.P. mise-a-la-mass electrode can be positioned.

C. H. Young.

C.H. YOUNG.

QUEEN HILL - Diamond Drilling Summary

WP A79-7A.

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G45	(556) 1755.03	(360) 802.39	272.56	282.25	-60°	3. 9.79	21.9.79	257.95	257.95	3060	193.5 m - 243 m Dolomitic and carbonaceous siltstone host unit with coarse grained and stratiform pyrite mineralisation, including some barren carbonate zones. (Bedding at low angle to core axis).	70 to 108	180.75 - 243/0.1% Sn, includes 193.75 - 195.75/ 0.79% Sn, 231-232/ 0.9% Sn and 239-243/ 0.49% Sn.
G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5 to 47	281.12-282.28/ 0.18% Sn includes 16 cm 0.84% Sn.
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m.	-132 to -128	No significant Sn mineralisation.
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117 to 120 and 132 to 134	No significant Sn mineralisation.
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 128.0 to 139.8 m. Coarse grained pyrite 40-50% from 139.8 to 156.8 m. Below 156.8 m 1-2 m wide coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	112 to 130	128-139.8/0.79% Sn, includes ¹²⁸ 139.8 m 1.59% Sn and 139.8 to 156. 0.25% Sn.

139.8
128.0
21.8

156
125
281

156.8

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G45									12.10.79	23. 9.79	12.10.79	22.10.79	5.11.79	1.11.79
G46									10.10.79	1.11.79	12.10.79	22.10.79	3.12.79	29.11.79
G47									22.10.79	2.11.79	26.10.79	30.10.79	10.11.79	
G48									30.10.79	31.10.79	2.11.79	2.11.79	12.11.79	12.12.79
G49									30.10.79	9.11.79	23.11.79	25.11.79	3.12.79	

QUEEN HILL - Diamond Drilling Summary

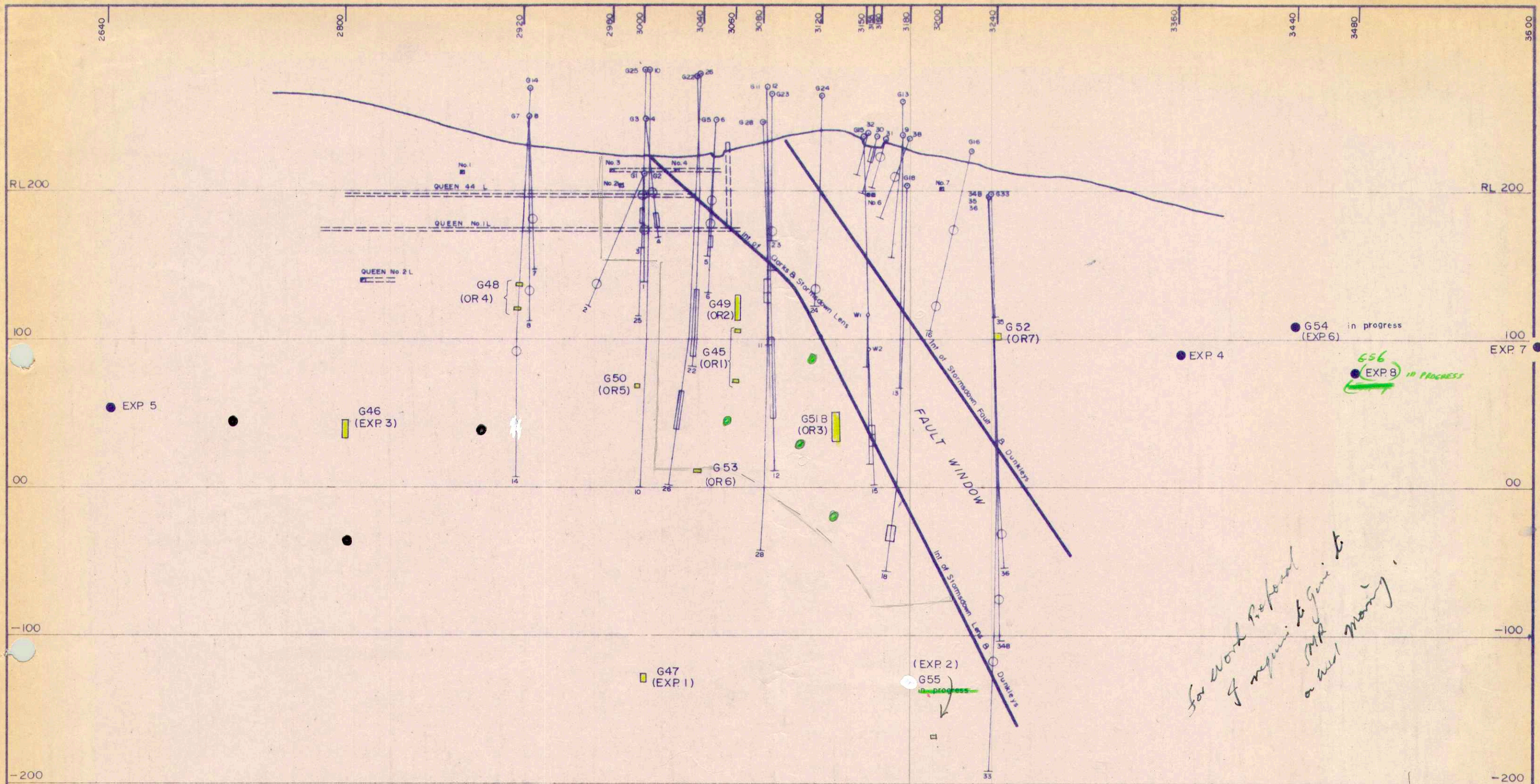
D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G50	1781.4	580.0	207.1	103.8	-56.1°	18.10.79	23.10.79	205.7	1651.2	3000	Dolomitic and carbonaceous host unit, intersected between 133 and 202 m. Fine grained stratiform pyrite av. 10% between 172 - 174.5 m.	68 to 70	No significant Sn mineralisation.
G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	8.11.79	277.4	1942.6	3120	Coarse grained 20-30% pyrite lodes to 1m. Between 221-223.4m. 223.4-234.5 c.g. 20-30% pyrite in sideritic dolomite. 234.5-236.9 c.g. 10% pyrite, 236.9 - 237.6 - >50% pyrite, 237.6-253.8 20-25% pyrite, 253.8 - 254.5 5-10% pyrite, in volcanic tuff. from 234.5m	31 to 51.5	236.9 - 254.5 m / 1.35% Sn, includes 236.9 - 245.3 / 0.49% Sn and 245.5 - 254.5 / 2.18% Sn
G52	2012.7	654.9	199.0	101.4	-44.8°	29.10.79	16.11.79	183.0	2125.6	3240	Coarse grained 10-60% pyrite in sideritic dolomite from 133.6 to 143.6 m.	100 to 103.5	
G53	1851.64	518.99	203.7	100.3	-53.5°	12.11.79	22.11.79	421.0	2546.6	3040	Dolomitic host unit, intersected between 242 and 265.65m. From 256.4 - 261.5 m, Py 15-20% as a network of metasomatic veins, modifying f.g. pyritic dolomite.	4.5 to 8.5	
G54	2077.24	1022.56	180.5	281.1	-38.3°	23.11.79	In progress at 98.2 m. 160 m 175 m						

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	In progress at 450 m. 10.12.79	511.3		3180	Dolomitic and carbonaceous siltstone bent unit intersected between 362.5 and ^{472.6} 479 m. 40 cm only of weakly replaced dolomite between 466.2-466.6 m	-170 -150	NO SIGNIFICANT S ₁ MINERALISATION.
G56						13.12.79.	In progress at 25 m						

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

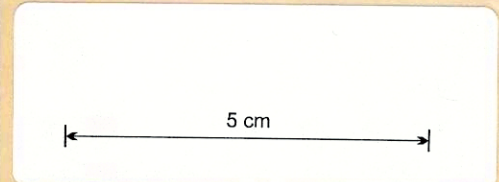
D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G55									11.12.79					



*for work proposal
of require to give to
SMA
a well mining.*

— LEGEND —

- G45 Hole Completed
- OR 3 Ore Reserve Hole Proposed
- EXP 5 Exploration Hole Proposed



Week Ending 6/12/79

Aberfoyle Exploration Pty Ltd		
Geology:	NORTH WEST TASMANIA	
Drawn: RJE	QUEEN HILL	
Traced: RJE	1979 DRILL PROGRAMME	
Checked:	<i>1980. INTERIM ORE RESERVE and EXPLORATION DRILLING PROGRAMME</i>	
Revised by RJE Date AUG 79		Location code
		Date: May, 1979
		Scale: 1:2500
		Plate No

Date December 3, 1979.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M. Richards

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets for the Queen Hill Drilling Programme.

Hole G54

Is in progress, currently in quartzite.

Hole G55

Is in progress, in dark grey siltstone.

Hole G45

Re-assessment of this hole indicates only two short intervals constitute metasomatic alteration and mineralisation as distinct from syngenetic pyrite mineralisation, it is apparent that the interval 180.75 - 243 m at 0.1% Sn is not part of the ore zone. The two short intervals will be quoted when check assays are available.

Hole G46

I have not yet quoted an intersection for this hole as assays for a potentially mineralised interval (151.8 - 156.2) are not yet to hand. In the interval 127.6 - 145.8 there is an ore grade intersection with >1% Sn.

C.H. Young

C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G45	(556) 1755.03	(360) 802.39	272.56	282.25	-60°	3. 9.79	21.9.79	257.95	257.95	3060	193.5 m - 243 m Dolomitic and carbonaceous siltstone host unit with coarse grained and stratiform pyrite mineralisation, including some barren carbonate zones. (Bedding at low angle to core axis).	70 to 108	180.75 - 243/0.1% Sn, includes 193.75 - 195.75/ 0.79% Sn, 231-232/ 0.9% Sn and 239-243/ 0.49% Sn.
G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5 to 47 47	281.12-282.28/ 0.18% Sn includes 16 cm 0.84% Sn.
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m.	-132 to -128	No significant Sn mineralisation.
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117 to 120 and 132 to 134	No significant Sn mineralisation.
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 128.0 to 139.8 m. Coarse grained pyrite 40-50% from 139.8 to 156.8 m. Below 156.8 m 1-2 m wide coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	112 to 130	START 128-139.8/0.79% Sn, includes 139.8/1.59 128.0-156.8 m 0.25% Sn

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G45									12.10.79	23. 9.79	12.10.79	22.10.79	5.11.79	1.11.79
G46									10.10.79	1.11.79	12.10.79	22.10.79	3.12.79	29.11.79
G47									22.10.79	2.11.79	26.10.79	30.10.79	10.11.79	
G48									30.10.79	31.10.79	2.11.79	2.11.79	12.11.79	
G49									30.10.79	9.11.79	23.11.79	25.11.79	3.12.79	

QUEEN HILL — Diamond Drilling Summary

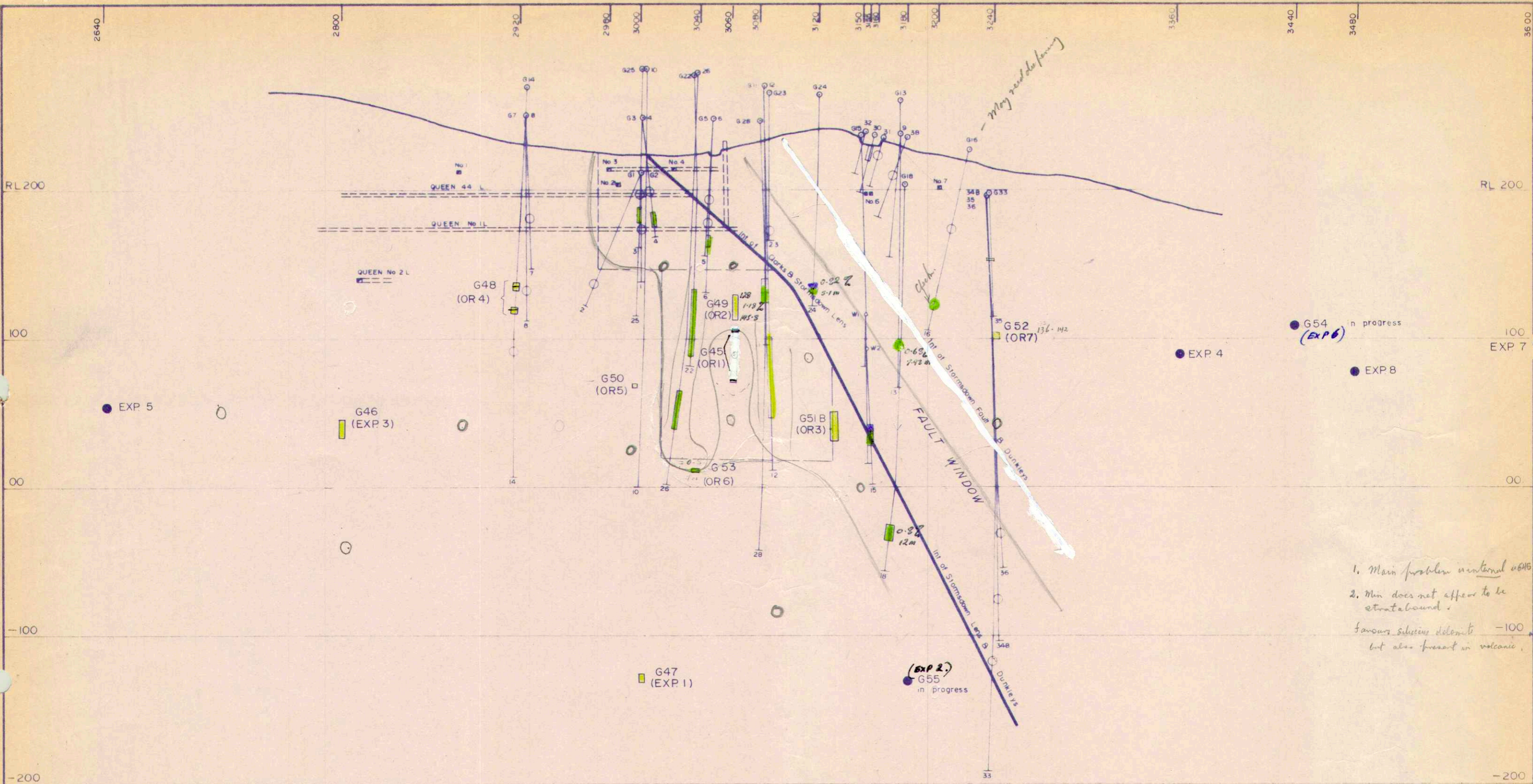
D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G50	1781.4	580.0	207.1	103.8	-56.1°	18.10.79	23.10.79	205.7	1651.2	3000	Dolomitic and carbonaceous host unit, intersected between 133 and 202 m. Fine grained stratiform pyrite av. 10% between 172 - 174.5 m.	68 to 70.	
G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	8.11.79	277.4	1942.6	3120	Coarse grained 20-30% pyrite lodes to 1m. Between 221-223.4m. 223.4-234.5 c.g. 20-30% pyrite in sideritic dolomite. 234.5-236.9 c.g. 10% pyrite, 236.9 - 237.6 → >50% pyrite, 237.6-253.8 20-25% pyrite, 253.8 - 254.75 5-10% pyrite in volcanic tuff. From 274.5m ?	31 to 51.5	
G52	2012.7	654.9	199.0	101.4	-44.8°	29.10.79	16.11.79	183.0	2125.6	3240	Coarse grained 10-60% pyrite in sideritic dolomite from 133.6 to 143.6 m.	To 100/103.5	
G53	1851.64	518.99	203.7	100.3	-53.5°	12.11.79	22.11.79	421.0	2546.6	3040	Dolomitic host unit, intersected between 255 and 265.65 m. From 256-259.5 m, Py 15-20 as a network of metasomatic veins, modifying f.g. pyritic dolomite.		
G54	2077.24	1022.56	180.5	281.1	-38.3°	23.11.79	In progress at 30 m. 98.2m						

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	In progress at 103 m. 450 m						

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

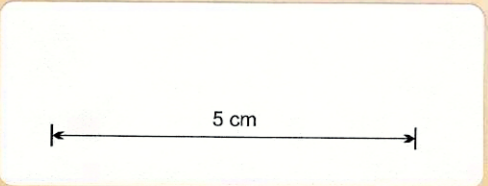
D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section	
G55															



— LEGEND —

- G45 □ Hole Completed
- OR 3 ○ Ore Reserve Hole Proposed
- EXP 5 ● Exploration Hole Proposed

Week Ending 29/11/79



Aberfoyle Exploration Pty Ltd		
Geology Drawn RJE Traced RJE Checked Revised by RJE Date AUG 79	NORTH WEST TASMANIA QUEEN HILL 1979 DRILL PROGRAMME	Location code Date May, 1979 Scale 1:2500 Plate No

Date	November 23, 1979.	Ref	
To	K.R. Yates,	From	C.H. Young,
At	Adelaide.	At	Wynyard.
Copies to	S.M. Richards	Keep	

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets for the Queen Hill Drilling Programme.

Hole G53

Was drilled from the west and collared in volcanics. Dolomitic host rock was intersected at 239 m with only minor pyrite, <5%. From 245.8 to 256 m the dolomite is strongly recrystallised and pyrite content is 5-20%.

From 256-259.5 m, pyrite 15-20% as a network of metasomatic veins along fractures, modifying a fine grained pyritic dolomite. This interval is expected to contain cassiterite mineralisation. From 259.5 to 262.5 m the pyrite content is 10-40% with some quartz veins and faults. The hole then passed through a minor volcanic unit, black siltstone and entered another volcanic unit at 305.5 m.

It was considered important at this RL to pass through the volcanic unit. This was done finally at 401.7 m when the hole passed into black siltstone and then quartzite and slates at 405.4 m. There was no evidence of dolomitic rock or metasomatic mineralisation in this area.

This rig will move to drill exploration hole No. 2 on Section 3180 as G55.

Hole G54 (Exploration Hole No. 6) Section 3480 will commence on 23.11.1979.

The target is a coincident I.P./geochemical anomaly adjacent to the volcanic unit, situated immediately west of the Trial Harbour, Granville Harbour road junction.

Delays were incurred in the commencement of this hole due to stuck casing in the previous hole, G52.

Mineralisation

Experience now indicates fine grained syngenetic pyrite mineralisation, without evidence of metasomatic alteration, is not tin bearing. Accordingly future reporting will not include such intervals, although analytical assessment will continue.

C.H. Young.

C.H. YOUNG.

QUEEN HILL - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G50	1781.4	580.0	207.1	103.8	-56.1°	18.10.79	23.10.79	205.7	1651.2	3000	Dolomitic and carbonaceous host unit, intersected between 133 and 202 m. Fine grained stratiform pyrite av. 10% between 172 - 174.5 m.	68 to 70	
G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	8.11.79	277.4	1942.6	3120	Coarse grained 20-30% pyrite lodes to 1m. Between 221-223.4m. 223.4-234.5 c.g. 20-30% pyrite in sideritic dolomite. 234.5-236.9 c.g. 10% pyrite, 236.9 - 237.6 >50% pyrite, 237.6-253.8 20-25% pyrite, 253.8 - 254.5 5-10% pyrite in volcanic tuff.	31 to 51.5	
G52	2012.7	654.9	199.0	101.4	-44.8°	29.10.79	16.11.79	183.0	2125.6	3240	Coarse grained 10-60% pyrite in sideritic dolomite from 133.6 to 143.6 m.	100-103.5	
G53	1851.64	518.99	203.7	100.3	-53.5°	12.11.79	22.11.79	421.0	2546.6	3040	Dolomitic host unit, intersected between 239 and 266.2 m. From 256-259.5 m, Py 15-20 as a network of metasomatic veins, modifying f.g. pyritic dolomite.		
G54	2077.24	1022.56	180.5	281.1	-38.3°	23.11.79	IN PROGRESS at 30 m.						
G55	1986.6	567.4	191.6	102.3	-59.25°	27.11.79	IN PROGRESS at 103 m.						

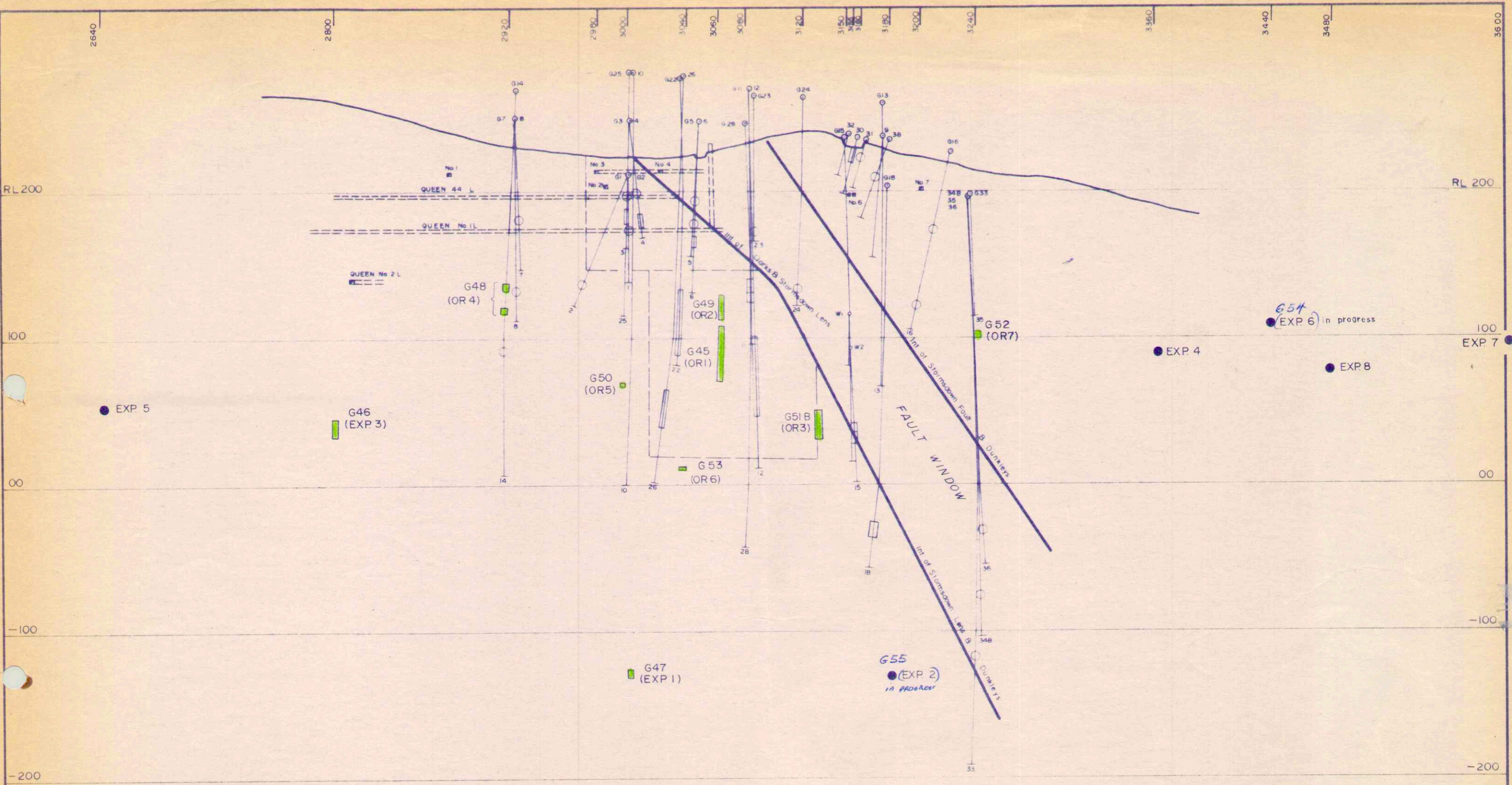
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G51									15.11.79	26.11.79				
G51B									17.11.79	26.11.79				
G52									18.11.79					
G53									29.11.79					

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G45	(556) 1755.03	(360) 802.39	272.56	282.25	-60°	3. 9.79	21.9.79	257.95	257.95	3060	193.5 m - 243 m Dolomitic and carbonaceous siltstone host unit with coarse grained and stratiform pyrite mineralisation, including some barren carbonate zones. (Bedding at low angle to core axis).	70 to 108	180.75 - 243/0.1% Sn, includes 193.75 - 195.75/ 0.79% Sn, 231-232/ 0.9% Sn and 239-243/ 0.49% Sn.
G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5 to 54	281.12-282.28/ 0.18% Sn includes 16 cm 0.84% Sn.
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m.	-132 to -128	No significant Sn mineralisation.
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117 to 120 and 132 to 134	No significant Sn mineralisation.
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 128.0 to 139.8 m. Coarse grained pyrite 40-50% from 139.2 to 156.2 m. Below 156.2 m 1-2 m wide coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	112 to 130	metasomatised

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

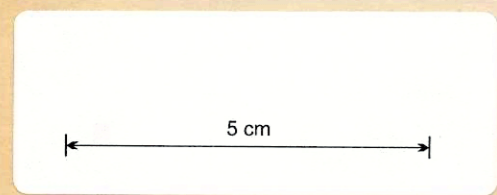
D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
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G46									10.10.79	1.11.79	12.10.79	22.10.79		29.11.79
G47									22.10.79	2.11.79	26.10.79	30.10.79		
G48									30.10.79	31.10.79	2.11.79	2.11.79		
G49									30.10.79	9.11.79	23.11.79	25.11.79		



— LEGEND —

- G45 Hole Completed
- OR 3 Ore Reserve Hole Proposed
- EXP 5 Exploration Hole Proposed

Week Ending



Aberfoyle Exploration Pty Ltd		
Geology	NORTH WEST TASMANIA	
Drawn RJE	QUEEN HILL	
Traced RJE	1979 DRILL PROGRAMME	
Checked		
Revised by RJE Date AUG 79		
		Location code
		Date May, 1979
		Scale 1:2500
		Plate No

Date November 15, 1979. Ref
To K.R. Yates, From C.H. Young,
At Adelaide. At Wynyard.
Copies to S.M. Richards Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT


Please find attached summary sheets for the Queen Hill Drilling Programme.

Hole G51B Part of the intersection was tested by the Renison core analyser. Significant Sn mineralisation was indicated, i.e. 24.3 m of 0.89% Sn from 230.3 to 254.6 m including 9 m of 2.07% Sn from 245.6 to 254.6 m. This core will be sent for assay as soon as practicable.

Hole G52 has intersected two small zones of pyritic mineralisation; 30-40% Py from 68.5 to 70.5 m (bedded pyrite, 15% core recovery) and 10-60% Py from 133.6 to 143.6 m (replaced dolomite). This rig will move to drill exploration hole No. 6.

Hole G53 (OR6) is in progress in volcanics.

Reassessment of intersections in Holes G24 and G13 indicates sideritic rich mineralisation previously interpreted as fault vein material may be recrystallised dolomite, similar to the Stormsdown lens. Further assessment of this concept is in hand.


C.H. YOUNG.

QUEEN HILL — Diamond Drilling Summary

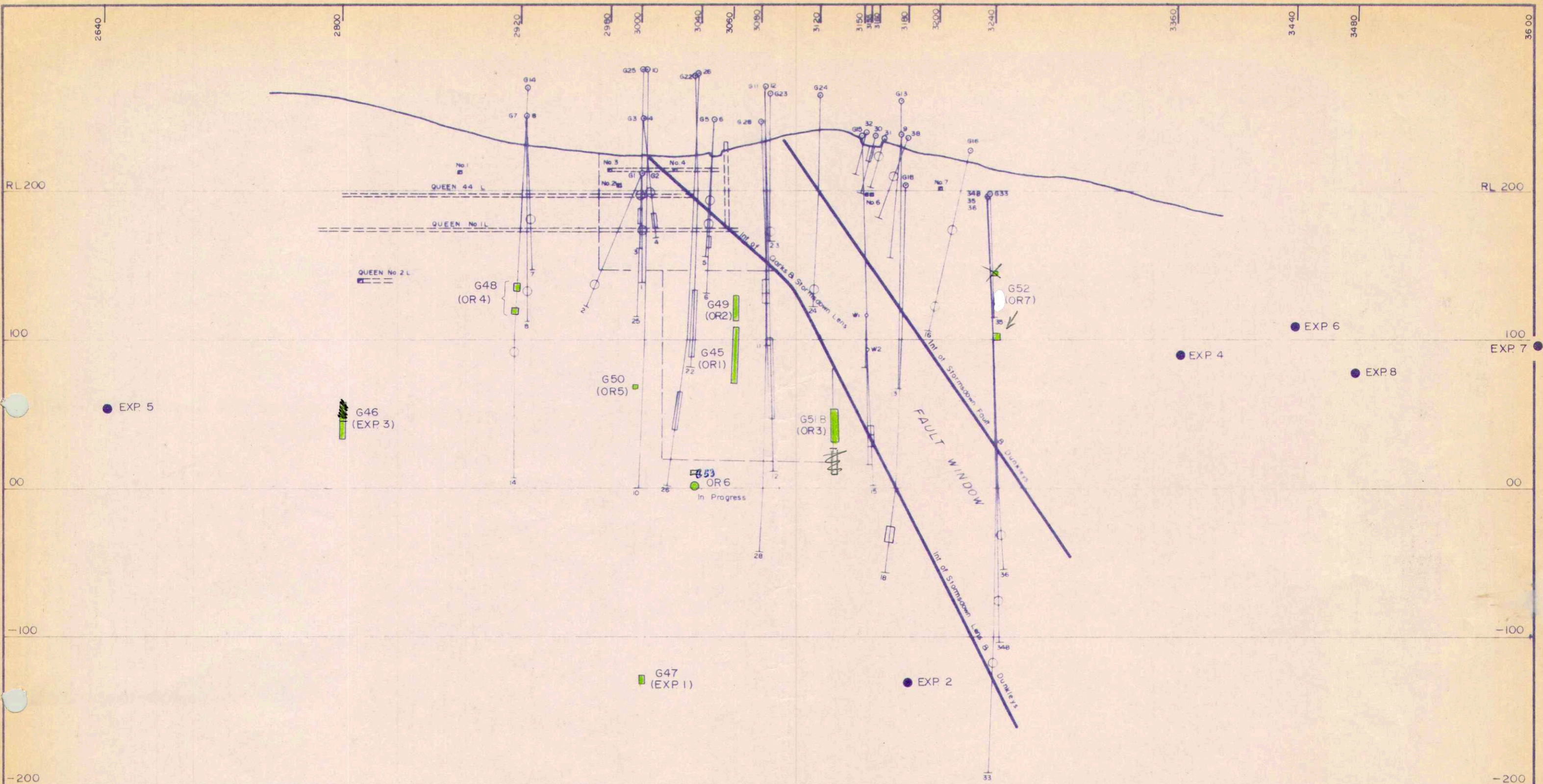
D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G45	(556) 1755.03	(360) 802.39	272.56	282.25	-60°	3. 9.79	21.9.79	257.95	257.95	3060	193.5 m - 243 m Dolomitic and carbonaceous siltstone host unit with coarse grained and stratiform pyrite mineralisation, including some barren carbonate zones. (Bedding at low angle to core axis).	70 to 108	180.75 - 243/0.1% Sn, includes 193.75 - 195.75/ 0.79% Sn, 231-232/ 0.9% Sn and 239-243/ 0.49% Sn.
G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5 to 54	281.12-282.28/ 0.18% Sn includes 16 cm 0.84% Sn.
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m.	-132 to -128	No significant Sn mineralisation.
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117 to 120 and 132 to 134	No significant Sn mineralisation
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	<i>metasomatised</i> Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 128.0 to 139.8 m. Coarse grained pyrite 40-50% from 139.2 to 156.2 m. Below 156.2 m 1-2 m wide coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	112 to 130 <i>metasomatised</i>	<i>metasomatised</i>

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section	
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G46									10.10.79	1.11.79	12.10.79	22.10.79			
G47									22.10.79	2.11.79	26.10.79	30.10.79			
G48									30.10.79	31.10.79	2.11.79	2.11.79			
G49									30.10.79	9.11.79	23.11.79				

QUEEN HILL - Diamond Drilling Summary

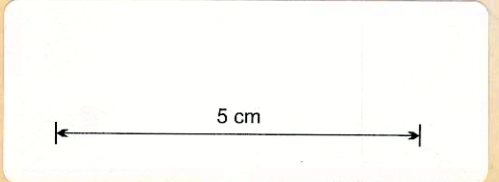
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	North	East											
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G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	8.11.79	277.4	1942.6	3120	Coarse grained 20-30% pyrite lodes to 1m. Between 221-223.4m. 223.4-234.5 c.g. 20-30% pyrite in sideritic dolomite. 234.5-236.9 c.g. 10% pyrite, 236.9 - 237.6 >50% pyrite, 237.6-253.8 20-25% pyrite, 253.8 - 254.5 5-10% pyrite in volcanic tuff.	31 to 51.5	
G52	2012.7	654.9	199.0	101.4°	-44.8°	29.10.79	In progress at 97 m 16.11.79	183.0	2125.6	3240	Fine grained 30-40% Pyrite from 68.5 to 70.5 m, 15% core recovery. Coarse grained 10-60% pyrite in sideritic dolomite from 133.6 to 143.6 m.	149-150 100-103.5	
G53	1851.64	518.99	203.7	100.3	53.3°	12.11.79	In progress at 49 m 22.11.79	421.0	2546.6	3040	Dolomitic host unit, intersected between 239 and 266.7 m. From 256-259.5 m, 15-20% as a network of metamorphic veins, modifying f.g. pyritic dolomite	10-12.5	



— LEGEND —

- G45 Hole Completed
- OR 3 Ore Reserve Hole Proposed
- EXP 5 Exploration Hole Proposed

Week Ending 15-11-79



Aberfoyle Exploration Pty Ltd		
<p>Geology:</p> <p>Drawn: RJE</p> <p>Traced: RJE</p> <p>Checked:</p> <p>Revised by RJE Date: AUG 79</p>	<p>NORTH WEST TASMANIA</p> <p>QUEEN HILL</p> <p>1979 DRILL PROGRAMME</p>	<p>Location code</p> <p>Date: May, 1979</p> <p>Scale: 1:2500</p> <p>Plate No</p>

Date November 9, 1979.

Ref

To K.R. Yates,

From C.H. Young,

At Adelaide.

At Wynyard.

Copies to S.M.R.

Keep

Subject QUEEN HILL DRILLING PROGRAMME WEEKLY REPORT

Please find attached summary sheets for the Queen Hill Drilling Programme.

Hole G49 is currently being logged and sawn for assay. In the interval 126.1 to 139.2 m fractured dolomite hosts an average of 15% pyrite. Part of the above interval was tested by the Renison core analyser and an average of 1.9% Sn was reported. I have examined this interval and have identified very fine grained pale pink to cream coloured cassiterite. There is also minor visible fluorite. At this stage I feel confident we have achieved an ore grade intersection.

Hole G51B is just complete and has achieved a significant sulphide intersection. I have not yet seen the core. It is reported that there is visible fluorite, this I consider very encouraging.

This rig will move to drill OR 6.

Hole G52 is in progress at 97 m. This hole is designed to intersect the Stormsdown lens position on section 3240 at RL 125. The hole has encountered extremely broken and faulted ground from commencement and thus appears to be following a low angle east dipping fault zone. The chance of achieving an intersection appears poor.

When this hole is completed the rig will move to drill EXP 4.

The results to date strengthen the concept that there is a favourable horizon which appears to contain the highest Sn concentrations near "feeder" zones.

In detail it is still very difficult to correlate stratigraphy of the favourable horizon. Rock types identified to date include pyritic dolomite, pyritic siderite rock (both confirmed by C.M.S., XRD) pyritic siltstone and shale, sedimentary or volcanomictic breccia, volcanic scoria. The local stratigraphic problems may be explained by tight folding similar to that exhibited in the Stormsdown open pit. This local tight folding may only be rationalised at present by designing drill holes to intersect the overall approximate 30 m thick "form surface" i.e. favourable horizon.

In view of the above and Jeff Taylors regional hypothesis it is a fair assumption that mineralisation at Queen Hill, Montana, Stormsdown, Severn, Gold Course Lode and G46 area all represent structural repetitions of a similar horizon. There is a clear implication that a tight (say 40 m) drill pattern is required to evaluate the areas of known mineralisation.

C.H. Young.
C.H. YOUNG.

Week ending 8.11.79

QUEEN HILL - Diamond Drilling Summary

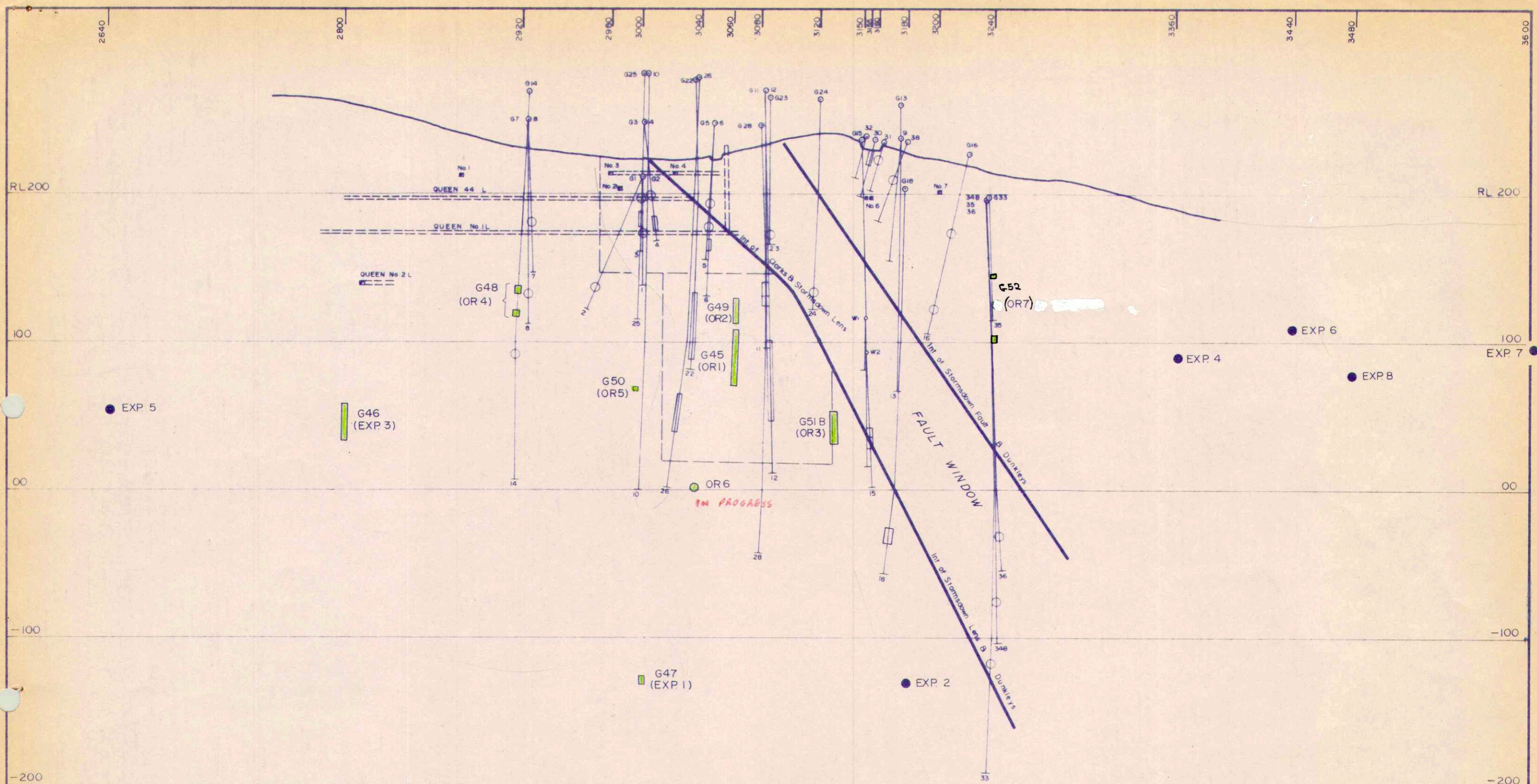
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G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5 to 54	281.12-282.28 / 0.18% Sn includes 16cm 0.84% Sn.
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m.	-132 to -128	No significant Sn mineralisation
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117 to 120 and 132 to 134	
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 126.1 to 139.2 m. Coarse grained pyrite 40-50% from 139.2 to 156.2 m. Below 156.2 m 1-2 m wide coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	112 to 130	

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

D.H. No.	Snt	Sns	Cu	Pb	Zn	Ag oz/t	S	SG.	Core Photographed	Core Logged	Intersection Sawn	Samples Dispatched	Assay Results Received	Drafted on Section
G45									12.10.79	23. 9.79	12.10.79	22.10.79		1.11.79
G46									10.10.79	1.11.79	12.10.79	22.10.79		
G47									22.10.79	2.11.79	26.10.79	30.10.79		
G48									30.10.79	31.10.79	2.11.79	2.11.79		
G49									30.10.79	9.11.79				

QUEEN HILL - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL of Intersection	Intersection
	North	East											
G50	1781.4	580.0	207.1	103.8	-56.1°	18.10.79	23.10.79	205.7	1651.2	3000	Dolomitic and carbonaceous host unit, intersected between 133 and 202 m. Fine grained stratiform pyrite av. 10% between 172 - 174.5 m.	68 to 70	
G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	8.11.79	277.4	1942.6	3120	Coarse grained 20-30% pyrite lodes to 1m. Between 221-228.4m. 223.4-234.5 c.g. 20-30% pyrite in sideritic dolomite. 234.5-236.9 c.g. 10% pyrite, 236.9 - 237.6 >50% pyrite, 237.6-253.8 20-25% pyrite, 253.8 - 254.5 5-10% pyrite, in volcanic tuff.	31 to 51.5	
G52						29.10.79	In progress at 97 m			3240	fine grained 30-40% Pyrite from 68.5 to 70.5 m, = 15% core recovery. Coarse grained 10-60% Pyrite in sideritic dolomite from 133.6 to 147.6 m.	149-150 100-103.5	
G53						12.11.79	In PROGRESS at			3040			



— LEGEND —

- G45 Hole Completed
- OR 3 Ore Reserve Hole Proposed
- EXP 5 Exploration Hole Proposed

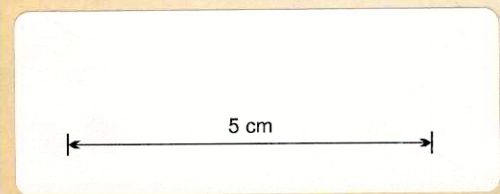
Week Ending 8.11.79

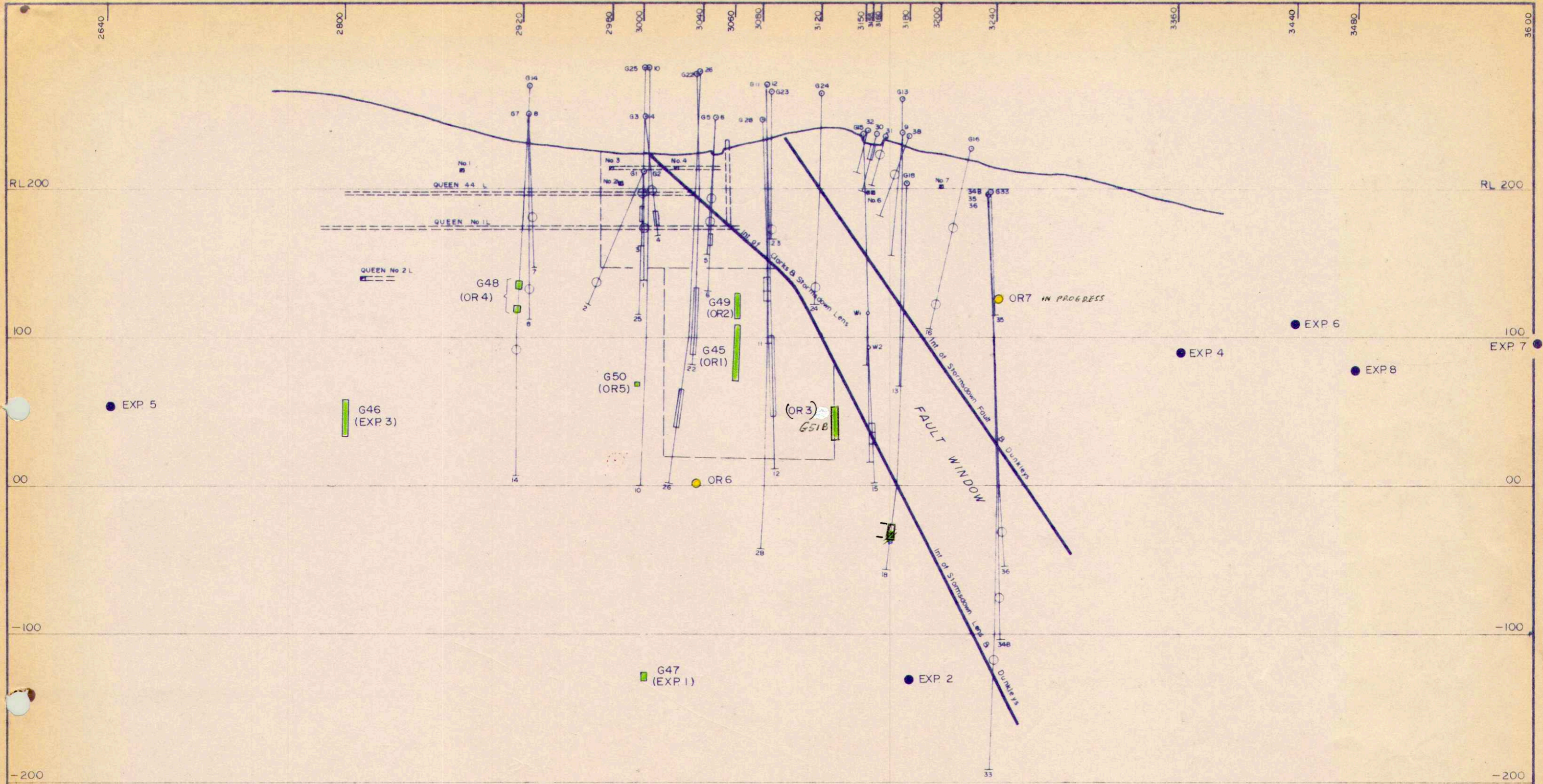
Aberfoyle Exploration Pty Ltd

Geology:
 Drawn: RJE
 Traced: RJE
 Checked:
 Revised by: RJE Date: AUG 79

NORTH WEST TASMANIA
 QUEEN HILL
 1979 DRILL PROGRAMME

Location code:
 Date: May, 1979
 Scale: 1:2500
 Plate No:

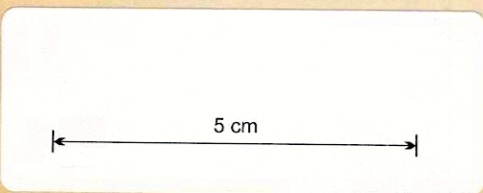




— LEGEND —

- G45 █ Hole Completed
- OR 3 ● Ore Reserve Hole Proposed
- EXP 5 ● Exploration Hole Proposed

Week Ending 1.11.79



Aberfoyle Exploration Pty Ltd		
Geology	NORTH WEST TASMANIA	
Drawn: R.J.E.	QUEEN HILL	
Traced: R.J.E.	1979 DRILL PROGRAMME	
Checked:		
Revised by: R.J.E. Date: AUG 79		
		Location code
		Date: May, 1979
		Scale: 1:2500
		Plate No

Week ending 1.11.79

QUEEN HILL — Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL	Intersection
	North	East										of Intersection	
G45	(556) 1755.03	(360) 802.39	272.56	282.25	-60°	3. 9.79	21.9.79	257.95	257.95	3060	193.5 m - 243 m Dolomitic and carbonaceous siltstone host unit with coarse grained and stratiform pyrite mineralisation, including some barren carbonate zones. (Bedding at low angle to core axis).	70/108	
G46	1636.69	410.37	202.00	100.25	-44.5°	7. 9.79	8.10.79	302	559.95	2800	Fine grained >50% stratiform pyrite mineralisation between 246.9 m and 251.5 m. Coarse grained >50% pyrite mineralisation with a carbonate rich gangue between 262.5 m and 273.3 m, fine grained 30% stratiform pyrite to 282.4 m.	31.5/54	
G47	1820.25	500.4	196.75	98.5	-65.5°	23. 9.79	7.10.79	471.4	1031.35	3000	Fine grained stratiform pyrite in part >50% 371.3 m to 379.3 m.	-132 To-128	
G48	1726.7	504.8	206.2	104.7	-46.9	9.10.79	17.10.79	207.95	1239.3	2920	Dolomitic and carbonaceous siltstone host unit, intersected between 91.85 and 207m. Fine grained stratiform pyrite av. 20% at 105.8 - 106.8, 109.9 - 111.6, 112 - 112.5 and 113 - 114.5 m. Also at 147.2 - 157.5 m.	117/120 and 132/134 127 96	
G49	1836.7	606.2	214.3	101.2	-42.7	11.10.79	26.10.79	206.2	1445.5	3060	Dolomitic and carbonaceous siltstone host unit intersected at 125.2 m. Fine grained pyrite 15% 126.1 to 139.2 m. Coarse grained pyrite 40-50% from 139.2 to 156.2 m. Below 156.2 m, 1-2 m wide, coarse grained pyrite >30%, lode? intersections with variable amounts of stannite, Gn and Sph at 158.6, 173.2, 179.2, 190.2 and 199 m.	120 112-130	

EXPLORATION AND ORE RESERVE PROGRAMME 1979 - 1980

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G48									30.10.79	31.10.79	2.11.79	2.11.79.		
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QUEEN HILL - Diamond Drilling Summary

D.H. No.	Co-ordinates		Elevation	Mag Brg	Angle	Commence	Complete	Depth m	Cumulative metres	Section	GEOLOGY/MINERALISATION	RL	Intersection
	North	East										of Intersection	
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G51	1800.4	844.03	251.1	283.5	-63.25°	25.10.79	25.10.79	14	1665.2	3120	Hole abandoned due to incorrect collar angle.		
G51B	1800	844	251.1	283.5	-68°	26.10.79	23.10.79 8.11.79	205.7 277.4	1942.6	3120	COARSE GRAINED PYRITE LOBES 1.75 m. BETWEEN 221 - 226.5 m. 226.5 - 234.5 20-30% PYRITE IN SIDERITIC DOL. 234.5 - 236.9 10% PYRITE 236.9 - 237.6 50% PYRITE ROCK. 237.6 - 253.8 20-25% PYRITE IN VESICULAR VOLCANIC. 253.8 - 254.5 5-10% PYRITE.	31 to 51.5	
G52						29.10.79	In progress at 50m 97m			3240			
653										3040			

