

TCR 81-1547

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REF. No. 2965/81				

MICROFILMED

PROGRESS REPORT
 QUEEN HILL JOINT VENTURE
 E.L. 47/71 TASMANIA
 QUARTER TO MARCH 9, 1981

81-1547

OPEN FILE

This report covers the
 Aberfoyle quarter (to period 3)
 ending March 9, 1981

J.R. Sise,
 Project Geologist,
 Tasmania.
 March 25, 1981

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QH 147 (In Text)	Queen Hill Summary Longitudinal Projection	As shown
QH 164 (In Text)	Severn Summary Longitudinal Projection	As shown
QH 129/2980	Cross Section 2980 - Sheet 1	1:500
QH 129/2980	Cross Section 2980 - Sheet 2	1:500
QH 129/2980	Cross Section 2980 - Sheet 3	1:500
QH 129/3120	Cross Section 3120 - Sheet 2	1:500
QH 129/3120	Cross Section 3120 - Sheet 3	1:500
QH 165	Stormsdown Pit Geology	1:250

INTRODUCTION

This report summarises work completed in the Aberfoyle quarter, periods 1-3 ending March 9, 1981, and includes preparation and drafting through to March 25, 1981. Reported expenditure is for the Aberfoyle quarter ending March 9, 1981.

During the quarter, the exploration and ore reserve drilling programme continued in the Queen Hill area with three holes completed for 849.9 metres. These holes were G71 at Queen Hill and G70 and G72 at Severn. Exploration hole G73 at Severn is just commenced.

Detailed follow-up of DIGHEM anomalies was commenced on the Queen Hill Mineral Leases and in the North-West part of the Exploration Licence area.

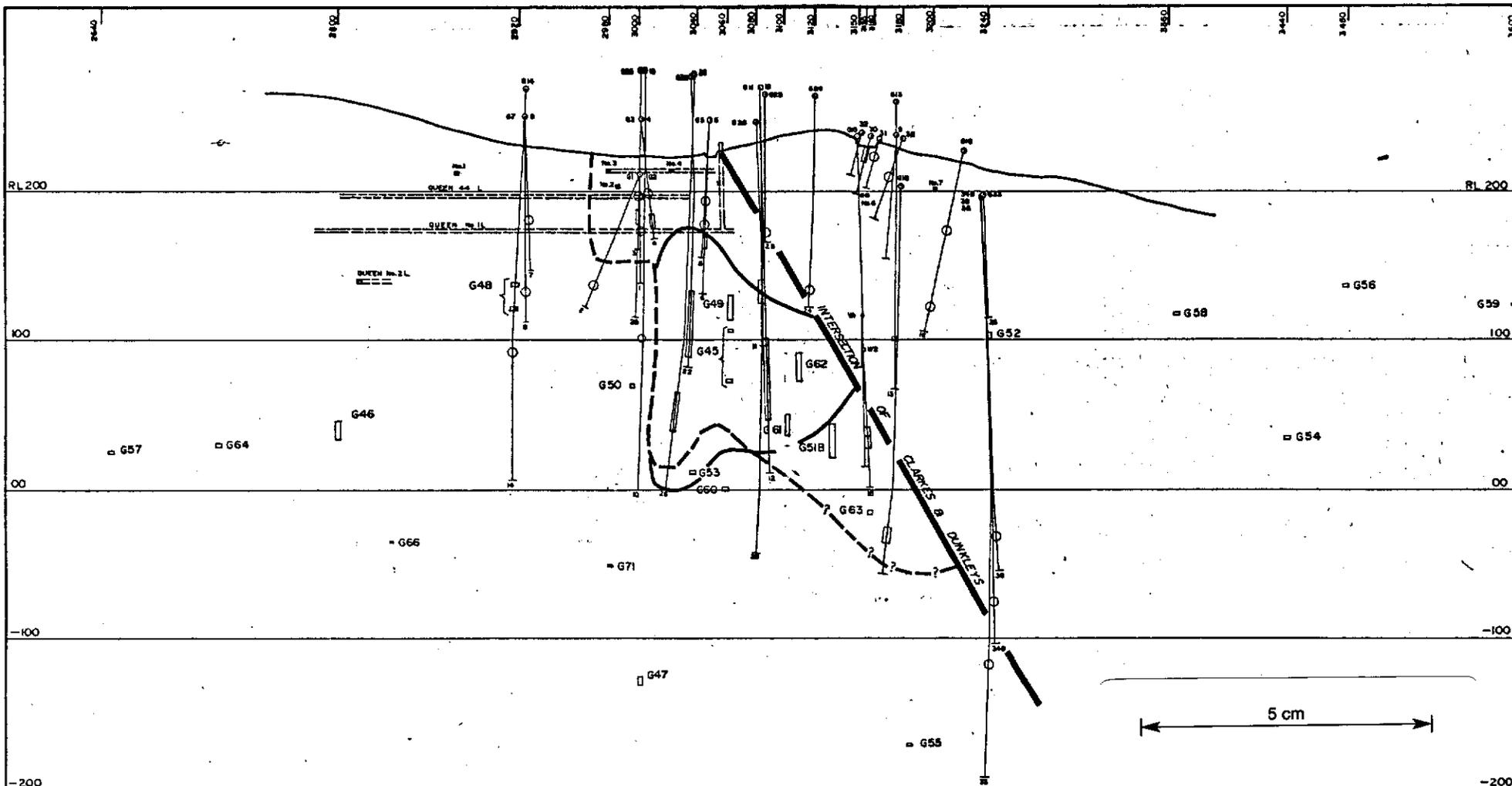
Excavation of the Stormsdown open pit area to provide a bulk sample for the Matte Fuming Pilot Plant at Kalgoorlie was completed. Final production figures for the Queen Hill bench and Stormsdown pit are presented in this report.

Rehabilitation of drill core and preparation for the construction of a new core shed to replace that razed by the Zeehan bush fire is in progress.

An application has been made to the Mines Department for consolidation of all the Mineral Leases at Queen Hill.

QUEEN HILL ORE RESERVE DRILLING PROGRAMME

Ore reserve drill hole G71, designed to test the quartzite-slate and volcanic-sandstone contact on section 2980 at -50 R.L., adjacent to the 25 metres of 2.04% Sn in G26, was completed at 358.2 m (Plate QH 147). No significant sulphide mineralisation was intersected.



- 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:
 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

9780003

Core splitting and assaying of previously rejected low grade zones in the Queen Hill lode system to allow ore reserve estimations over a wider area is well advanced. The intervals being assayed are as follows:-

<u>Hole Number</u>	<u>From (m)</u>		<u>To (m)</u>
G10	69.10	-	70.10
	71.62	-	83.82
G12	44.0	-	54.0
G13	42.0	-	44.50
	45.72	-	65.0
G23	3.0	-	16.0
G24	25.0	-	33.0
G25	68.0	-	73.0
G49	134.8	-	138.8
	143.8	-	145.8
G51	222.5	-	234.5
G54	51.0	-	55.5
G59	102.8	-	104.9
G67	189.3	-	200.0

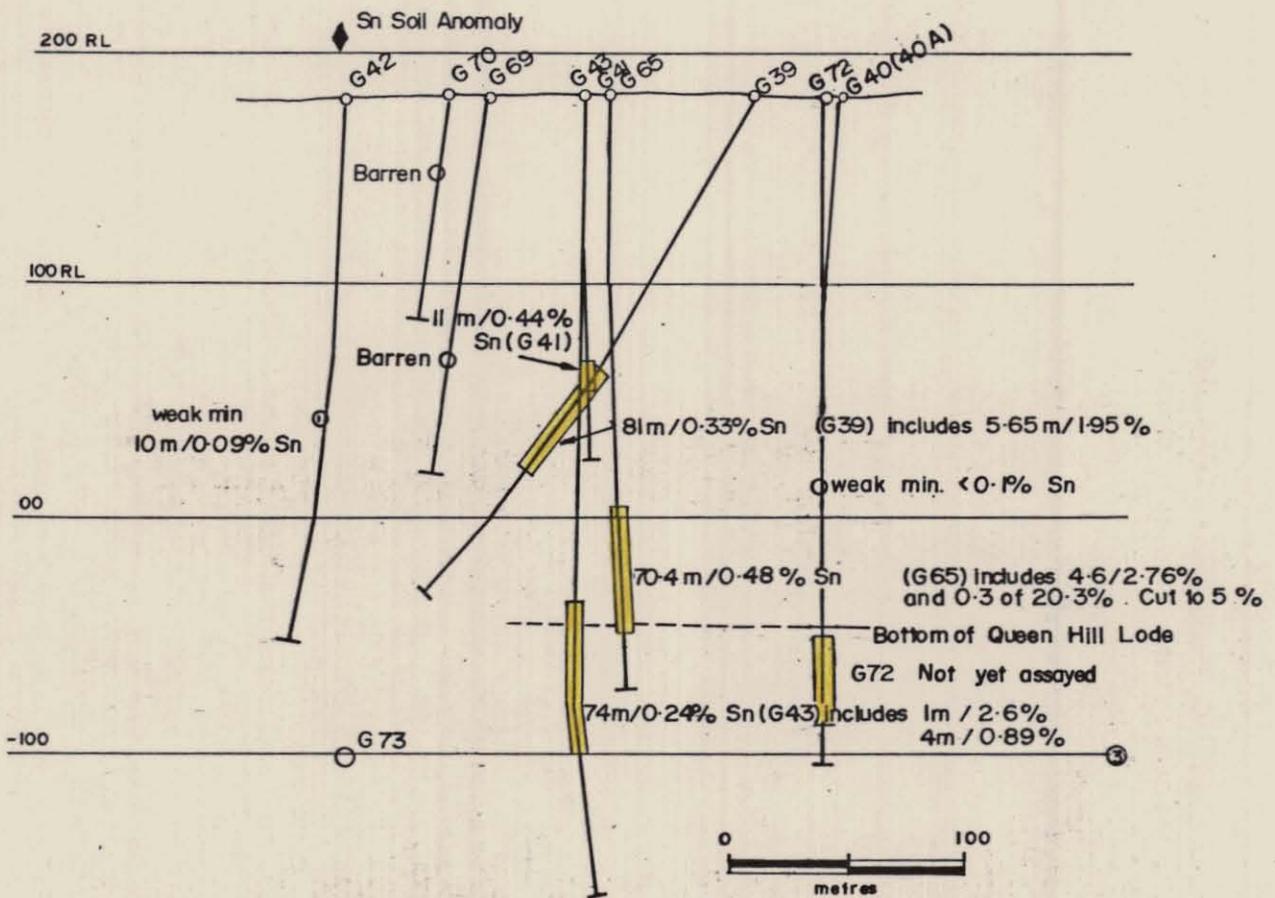
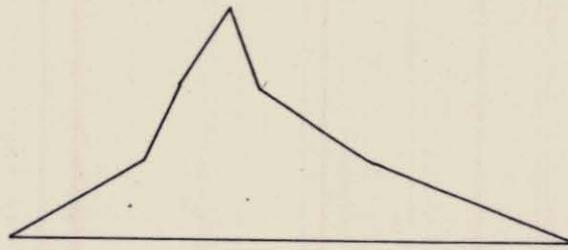
Details of all assay results will be tabulated in the next quarterly report.

SEVERN EXPLORATION DRILLING PROGRAMME

Exploration drill hole G70, designed to test the interpreted near surface plunge extension of the mineralisation intersected in drill holes G39 and G65 was completed at 151.2 metres. No significant sulphide mineralisation was intersected.

The shallow holes G69 and G70 (Plate QH 164) failed to add any near surface extension to the mineralisation based on the interpreted north-easterly plunge and fracture control of the Severn system.

MAGNETIC ANOMALY



□ Cassiterite - Sulphide mineralisation

⊙ Proposed exploration holes

5 cm

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		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	184.5 - 185.4 m (0.9m) 0.29% Sn.
											224.2 - 225.35m, 60% pyrite, siderite, quartz lode.	32	224.2 - 225.35 m (1.15m) 0.28% Sn.
											237.2 - 239.61m, 60% pyrite, siderite lode.	18	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	3035	150.5 - 178.5 m zone of pyrite/pyrrhotite stringer veins.	40	150.5 - 178.5 m (28.0m) 0.27% Sn.
											202.05 - 272.5 m zone of pyrite/pyrrhotite stringer veins includes 222.5 - 222.8m quartz-cassiterite vein and 257.5 - 262.1 m, 40-70% pyrrhotite/pyrite vein.	-40	202.05 - 272.5 m (70.45m) 0.48% Sn. Includes 222.5 - 222.8 m (0.3m) at 20.3% Sn and 257.5 to 262.1 m (4.6m) 2.76% Sn. (Note: the 0.3 m of 20.3% Sn was cut to 5% Sn for the over-all grade estimation)
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	303.8 - 308.8 m (5.0m) of 0.13% Sn.
G67	2073.7	1219.4	181.2	289.3	-64.3	8.9.80	30.9.80	223.5	2428.9	3520	192.3 - 200.3 m vein pyrite 60-80%, siderite, quartz gangue.	10	192.3 - 200.3 m (8.0 m) 3.34% 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											
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.	104	Weak mineralisation < 0.1% Sn.
											165.0 - 170.1 Pyrite 5% locally 70% as veins.	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.		Assay data not yet available.
G72	1649.5	1205.1	180.6	284.3	-63.1	16.01.81	09.03.81	340.5	3674.0	3125	275.0 - 282.5m : 1 - 3% pyrite veins. 282.5 - 300.3m : zone of pyrrhotite 10 - 15%, pyrite 1 - 5% veining. 300.3 - 313.0 m : pyrrhotite/pyrite stringer veins, 1 - 5%. Fault at 310.5m.	-57	Assay data not yet available.
											-64		
											-80		
											-90		

978009

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	In progress			2950			

978010

Exploration hole G72 was designed to test the zone 100 metres north-east of the intersection in G65 on section 3125 at -100 R.L. beneath G40 (Plate QH 164). Pyrrhotite-pyrite mineralisation was intersected between 275.0 m and 313.0 m and includes a section of 10-15% pyrrhotite and 1-5% pyrite between 282.5 m and 300.3 m. Assay results for these intervals are not yet available. A fault zone at 310.5 m separates the Crimson Creek shales and fine grained volcanoclastic sediments from the underlying predominantly quartzitic sequence and provides an obvious channel-way for the mineralising fluids. Phlogopite mica was observed within the mineralised interval near the base of the Crimson Creek Formation.

The rig has now moved to section 2950 and commenced drilling beneath G42 to test the zone at -100 R.L., 100 metres south-west of G65 (plate QH 164).

A summary of the drilling programme is included together with summary longitudinal projections. The drill logs are appended but as yet no assay data is available. Cross sections at 1:500 scale are attached.

Complete assay data for drill hole G65 is now to hand. The previously reported intersection below 202.05 m is now expanded to 70.4 m of 0.48% Sn.

DIGHEM SURVEY FOLLOW-UP

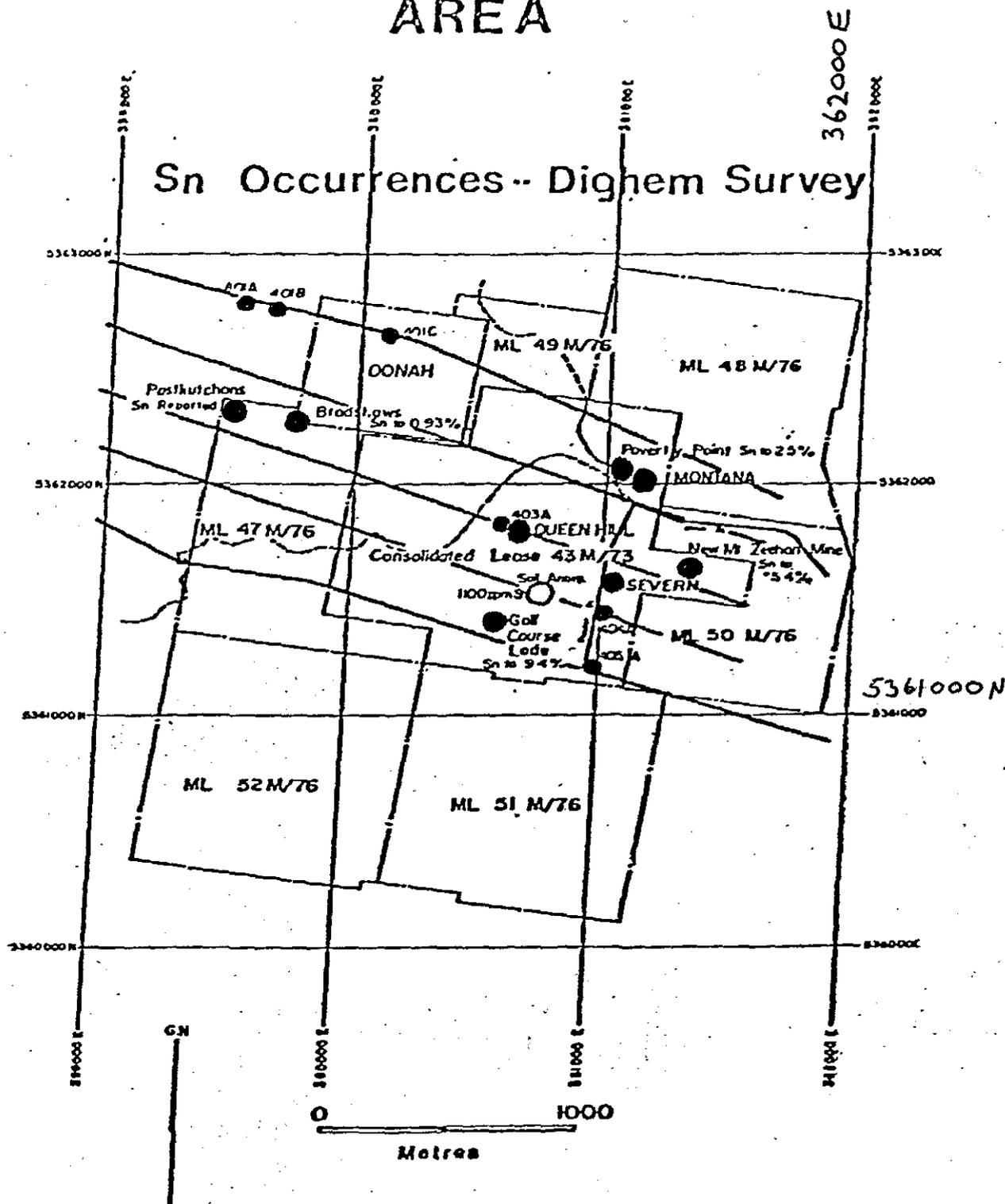
Queen Hill Mineral Leases

Anomalies 401A and 401B were located in a small north-west trending valley adjacent to Oonah Hill. Black graphitic slates of the Oonah Quartzite and Slate sequence are the source of the anomalies (Fig.1). A geological plan of each anomaly is in preparation and rock chip sampling is planned to further define the source.

Queen Hill Exploration Licence

Preliminary follow-up of the anomalies located during the extensive DIGHEM Survey conducted in 1979 in the north-west part of the licence is in progress (Figs. 2A and 2B). At St. Dizier, anomalies 222E, 223B and 224A have been located and a reconnaissance grid established.

QUEEN HILL - ZEEHAN AREA



- DIGHEM FLIGHT LINE
- DIGHEM ANOMALY
- Sn OCCURRENCES

5 cm

Figure 1.

E.L. 47 / 71
NORTH HEEMSKIRK AREA

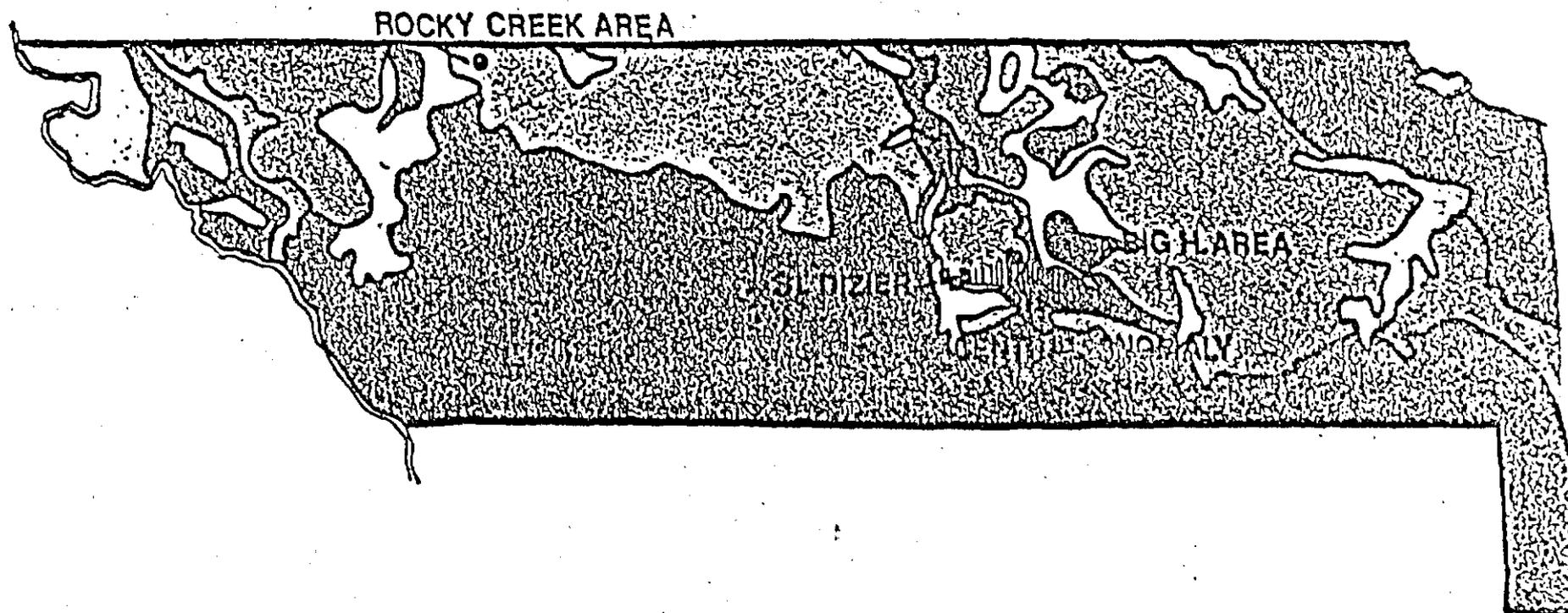
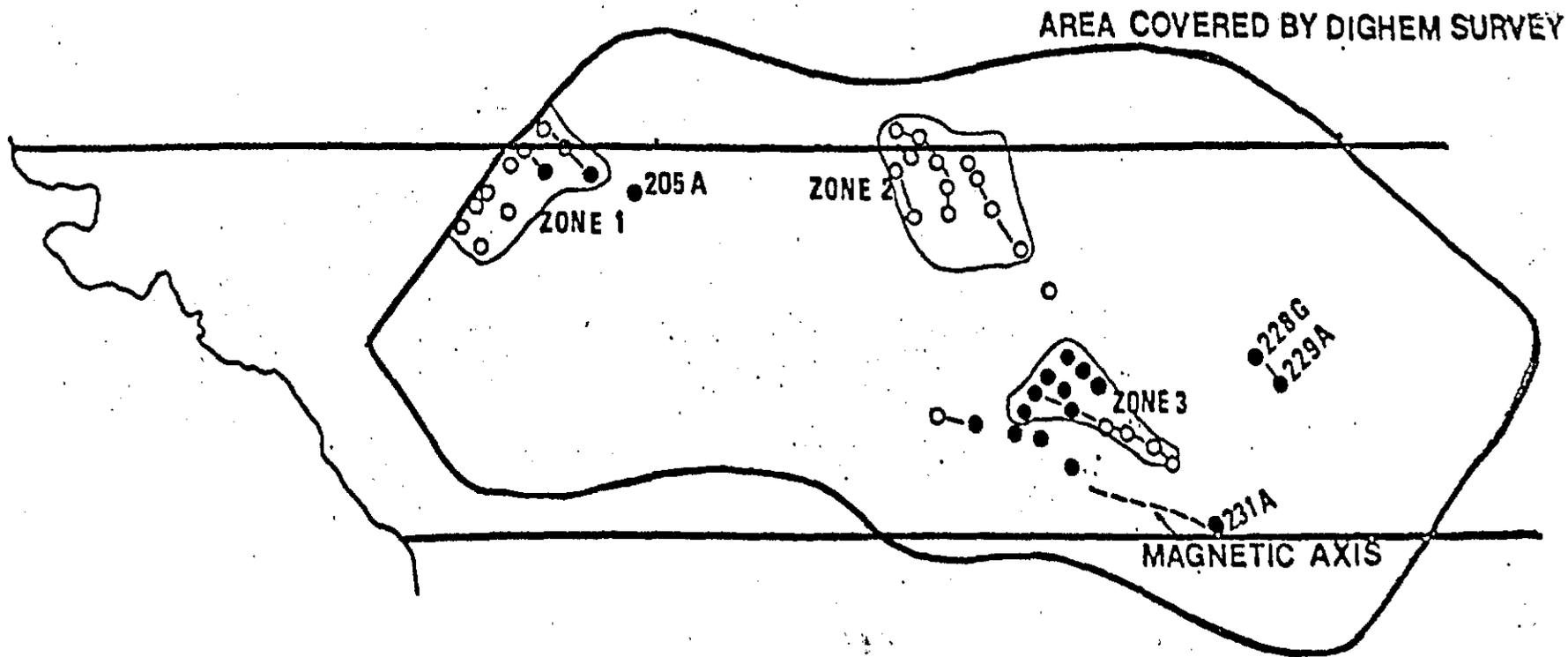


Figure 2A.

978013



- DIGHEM ANOMALIES FOR FOLLOW UP
- NO FOLLOW UP

Figure 2B.

978014

In the Big Rocky Creek area a similar reconnaissance grid has been established over anomalies 203A, 205A and 202D.

QUEEN HILL BENCH SAMPLE

Final production figures for the bulk ore sample sent to the Matte Fuming Pilot Plant at Kalgoorlie are as follows:-

Queen Hill (excavation completed October 31, 1980)

1265.08 tonnes at 0.6% Sn

215.32 tonnes at 0.4% Sn

Stormsdown (excavation completed December 6, 1980)

1412.50 tonnes at 1.2% Sn

A geological plan of the Stormsdown pit at 1:250 scale is attached; the Queen Hill plan is in preparation.

ZEEHAN FIRE

On Tuesday, February 3, 1981, a bush fire swept through part of the township of Zeehan. A total of 40 buildings, many within the Queen Hill Mineral Leases, were razed including two houses and a core shed owned by Aberfoyle. Core from 22 drill holes was stored in the shed. Allowing for the distortion and subsequent collapse of the modular storage system, it is estimated that perhaps 80% of the core is recoverable. Re-boxing of the core has commenced and plans for the construction of a new core shed at the Aberfoyle property on Main Street are well advanced.

WORK PLANNED

- Exploration drilling at Severn
- Ore reserve estimation of the Queen Hill lodes
- DIGHEM Survey follow-up
- Re-habilitation of drill core damaged by the fire
- Consolidation of all Queen Hill Mineral Leases

EXPENDITURE

The Joint Venture Statement of expenditure for the Aberfoyle quarter periods 1-3 (ending March 9, 1981) is split into two parts. One pertains to expenditure incurred on the Queen Hill Mineral Leases and the other expenditure incurred on the Exploration Licence.

Queen Hill Mineral Leases

	\$
Salaries and Wages	20,403
Contract Drilling	29,623
Surveying	863
Assay	5,646
Materials	4,544
Accommodation & Travel	822
Vehicles	1,716
Fuel	1,356
Communications	2,470
Equipment Use	398
Sundries	1,141
Overheads at 15%	<u>10,347</u>
	\$79,329
	=====

Queen Hill Exploration Licence

Salaries and Wages	1,316
Geochemistry	459
Materials	838
Accommodation & Travel	23
Tenure	942
Vehicles	60
Overheads at 15%	<u>546</u>
	\$4,184 ✓
	=====

Special expenditure charged to the Matte Fuming project and not included in the Joint Venture Statement above is given below. The figures represent the final expenditure on the bulk sample mining from Queen Hill and Stormsdown.

Geology and Supervision	1,441
Analytical	<u>460</u>
	\$1,901
	=====

REFERENCES:

- Young, C.H. (1980) Progress Report, Queen Hill Joint Venture E.L. 47/71, Quarter to November 17, 1980.
- Young, C.H. (1981) Report on loss to Aberfoyle Property, Zeehan bush fire disaster.

Signed:


 J.R. SISE,
 PROJECT GEOLOGIST - TASMANIA

Endorsed:


 C.H. YOUNG,
 DISTRICT MANAGER

APPENDIX

Drill Logs for:

G70	Severn
G71	Queen Hill
G72	Severn



DRILL HOLE RECORD

978019

Location SEVERN Property QUEEN HILL District ZEEHAN Bearing (M) 282.8 Hole No G70
 Commenced 10/11/80 Completed 17/11/80 % Recovery 86% Grid bearing (M) -11.25 Date 28-2-81
 Objective Structurally controlled Severn mineralisation plunging from soil geochem anomaly to mag. anomaly RL 100 Core size HQ to 78m, NQ to 151.2m Logged S. RICHARDSON
 Co-ordinates 1594.6 N, 958.9 E Dip 48° Alt./R.L. 185.56

SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO-ORDINATES			REMARKS
DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE	DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE	
46M	50.25	281°	EASTMAN	0M	48°	282.8	5361594.56	360958.96	185.56	
76.5M	47.75	278.5	"	25	50	280.4				NO DRILLING PROBLEMS (MOD USED)
109M	47	279.5	"	50	50	278.2				
151M	44.5	283.5	"	75	48.25	277.2				NO CASING LOST
EOH	151.2M			100	47	277.1				
				125	46.5	278.3				NO SIGNIFICANT INTERSECTIONS
				150	44.5	280.6				
				175	42	283.5				

Feature

Bedding
Foliation
Fragment
size & shape



Shearing



Fault

Vein

c carbonate
q quartz

Mineralization

978024

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	3.0	<p>A gen. finely interlaminated rock consisting of alternations of,</p> <p>1) Lt. grey to off white f.g. massive to bedded locally weakly micaceous quartzite from 1mm to 1m thick. (av. 1-2cm)</p> <p>2) Lt. grey to green grey gen. massive to locally bedded mudstone to siltstone. Fine grained pelitic weakly cleaved rock (often at angle to bedding). Thin beds 1mm. to 1cm but gen > 2cm.</p> <p>and 3) Lt. grey to grey brown slate bands gen 2-3cm wide interbedded w 1) & 2).</p> <p>so is constant at 45° to c.A.</p>						Py rare
	3.0		103.4				103.4	5cm py to sid vein. 45° c.A.
	3.0		105				105	Py rare
	3.0						107.4	Py 5-10 veinlet. Sp 1-2 veinlet. Both
							107.85	assoc. w. sid. av 40° to c.A.
	3.0		110				110	
	3.0							Py rare
	3.0		115				115	
	3.0							
	3.0		120				120	2cm py 50 sid vein 45° to c.A.
	3.0	123.0					Py rare.	
		← 2cm Interbedded lt. & dk grey slate.						
	125					125		

Feature

Bedding 
Foliation 
Fragment size & shape 

Shearing 
Fault 
Vein 

c carbonate
& quartz

Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

978025

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		Lithology - as above							
3.0	126.0	L. grey f.g. (micaceous) quartzite + massive to well bedded rock. Gen. highly siliceous w. common qtz veinlets. Bedding is constant around 40-45° to c.A.							Py rare
3.0	130							129.3 129.6 130 130.5 131.5 132.3	2cm py 90 sid vein 50° to c.A. 5cm py 70 sid / set vein 80° to c.A. py 1-2 veinlets gen 45-80° to c.A. 5cm py 90 sid vein 40° to c.A.
3.0	135	FAULT - Broken core ?° to c.A.						134.5 135 135.9	Py rare.
3.0	135	FAULT - Broken core 0° to c.A.						136.3	
3.0	135	FAULT - pug? 30-40° to c.A.						140	
3.0	140-140.1	<u>FAULT ZONE</u> Broken core & pug. Individual surfaces ⇒ 40-45° to c.A.						142.5	
3.0	142.5							144.0 145.0	Py 2-3(5) veinlet stockwork trending 35-45° to c.A.
3.0	145							147.1	
3.0	145	30cm q veins 30° to c.A.						149.7 150	
3.0	145	FAULT - broken core 95° to c.A.							



DRILL HOLE RECORD

978027

Location QUEEN HILL Property QUEEN HILL
 Commenced 26/11/80 Completed 12/1/81
 Objective QUEEN HILL ORE RESERVE.
 SECTION 2980

District ZEEHAN Bearing (M) 283.55° Hole No G71
 % Recovery 97% Grid bearing (M) -11.25° Date 17-2-81
 Core size HQ to 114m, NQ to 358.2m. Logged S. RICHARDSON
 Co-ordinates S361639.76 N 360867.68 Dip 56.59° Alt./R.L. 217.58

SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO-ORDINATES			REMARKS
DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE	DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE	
9.5M	56°	282°	EASTMAN	0	56.6	283.5	5361639.76	360867.68	217.58	
18.5M	55°	280.5	"	25	55.75	281.25				NO DRILLING PROBLEMS.
28M	54°	281.5	"	50	55.0	279.75				
31M	53.75°	281.5	"	75	55.0	279.25				9 m HW LEFT TO PROTECT TOP OF HOLE.
				100	55.0	279.75				
				125	54.5	280.75				
				150	54.0	281.75				NO SIGNIFICANT INTERSECTION
9M	56.25°	<i>in rods</i>	"	175	54.0	281.75				
15.5M	56°	<i>in rods</i>	"	200	54.0	281.25				
28.5M	55.5°	<i>in rods</i>	"	225	53.25	281.25				
46M	55.5°	280.5	"	250	51.5	282.75				
70M	55°	280°	"	275	51.0	284.75				
103M	55°	280°	"	300	51.0	285.75				
136M	54.5°	281.5	"	325	48.75	284.75				
166m	54°	282°	"	350	48.5	282.25				
199m	54°	281.5°	"							
229M	53°	281.5	"							
262M	50.75°	284°	"							
304m	48°	285.5°	"							
331m	48°	284°	"							
349m	48.5°	282°	"							

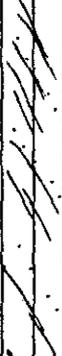
Feature

Bedding  Shearing 
 Foliation  Fault 
 Fragment  Vein 
size & shape c carbonate q quartz

Mineralization

Trace 1-5%
 Common 5-15%
 Abundant 15-60%
 Massive > 60%

978029

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	30	<p><u>Lt. grey bedded to massive siltstone to slate w. thin interbeds of lt. grey f.g. quartzite.</u></p> <p>Politic rock is the most common in this interval although locally quartzite may make up 60% of the rock.</p> <p>Interval is massive to well bedded. Bedding is best developed in finely interstratified areas. A gen. constant angle of 45-50° to c.A.</p>						30	
	30	<p>FAULT - Pug 40° to c.A.</p>						30.2	
	30								
	35							35	
	30								
	1.3								
	32.8	<p>FAULT - Broken core 7° to c.A.</p>						39.1	
	.9	<p><u>Lt. grey f.g. (micaceous) quartzite with rare thin interbeds of lt. grey slate.</u></p> <p>A very well bedded interval defined by wisps & interbeds to 20cm of lt. grey slate. Bedding // cleavage 45-50° to c.A.</p> <p>Quartzite is highly siliceous & locally veined by qtz.</p>						40	
	30							40.5	See q. vein 60° to c.A.
	30							43.2	q veins common.
	30							43.8	
	30							45	
	47.1	<p><u>Lt. to Dk. grey bedded to massive siltstone</u></p> <p>An interval of gen. uniform politic rock. Bedding is vaguely present through the interval but locally is very well developed. 50° to c.A. A weak to very weak layer // cleavage is present.</p>						50	

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



c carbonate
q quartz

Mineralization

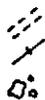
Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

978038

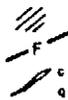
CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		Lithology - as above - dk. grey to black slate w. frag. rafts & interbeds of h. grey f.g. (micaceous) quartzite (contorted).							Py rare.
		FAULT - Pug - 30° to c.A.						251.9	
								253.0	3cm py 90 sid. vein 35° to c.A.
								254.6	Py 1-2 f.g. to c.g. & (veinlet)
3.0	255							255 256.2	
		FAULT - Pug 10° to c.A.							Py rare.
								258.0	
		1cm. sid ven // c.A.							
		S/S 255 - 40° to c.A.						259.2	
		260 - 35° to c.A.						259.6	Py 5-7 in c.g. sid vein. 65° to c.A.
		265 - 45° to c.A.						260	Py on margin
	260								Py rare (1-2) as f.g. (bedded) and rare veinlet.
		270 - 40° to c.A.							
		275 - 40° to c.A.							
3.0								262.1	1cm py 95 sid vein 55° to c.A.
									Py rare.
								264.7	1cm py 70 qtz vein 45° to c.A.
		Stream slumped siltstone w thin med grey shale						265	Py 3-5 (10) f.g. to c.g. assoc. w. qtz
		vegs & interbeds. Much s. sed. def.						265.5	
								265.9	Py rare 2cm py 95 c. ven. 45° to c.A.
		dk. grey to black slate w. frag. rafts and interbeds of h. grey f.g. (micaceous) quartzite (contorted)							
		Qs as for 128.7-148.4							
3.0									Py rare (veinlet).
		FAULT ZONE - Pug 75° to c.A.							
								270	
								270.6	Py 3-5 (20) f.g. to c.g. & vein
2.5		FAULT ZONE - Pug and broken core 60-80° to c.A.							
		Local assoc. py. veining							
								273.7	
								275	Py rare.

Feature

Bedding
Foliation
Fragment
size B shape



Shearing
Fault
Vein



c carbonate
q quartz

Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

978039

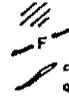
CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	MINERALIZATION			DEPTH m	MINERALIZATION
				TRACE	COMMON	ABUNDANT		
30		Lithology - as above - dk. grey to black slate w. frag. rfts and interbeds of lt. grey f.g. (micaceous) quartzite - locally contorted.					276.0	1cm py 20 sid vein 55° to c.A.
30							280.0	Py rare veinlet.
26	281.7	<u>FAULT ZONE</u> - Pug and broken core. orientation from individual surfaces appears to be 20-30° to c.A.					281.3	1cm py 15 veinlet. 30° to c.A.
5							285.0	Py rare.
10	284.7						285.0	
13							287.7	1cm py 50 sid vein. 25° to c.A.
30		<u>FAULT</u> - broken core - 30° to c.A.					288.0	1cm py 40 qtz / sid vein 25° to c.A.
30							290.0	Py rare
30		<u>FAULT</u> - Broken core 40° to c.A.					292.0	Py 10-15 f.g. to mg. (assoc. w. qtz)
30							292.4	
30		<u>FAULT</u> - pug - 10-15° to c.A.					293.3	Py rare veinlet.
	295						295.0	
	295.3						295.3	
	295.6	Interbedded brown pyritic mudstone grey to black slate and grey green lenses of mudstone - possibly micaceous.					295.6	Py 15 f.g. bedded. (text)
24		dk. grey to black slate w. frag. rfts and interbeds of dk grey f.g. (micaceous) quartzite. (contorted) Qs as for 128.7 - 148.4					298.3	5cm py 95, str 3, sp 2 vein 30° to c.A.
29							298.9	1cm py 60 sid vein 40° to c.A.
	300						300.0	

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



c carbonate
q quartz

Mineralization

978040

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive >60%

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	301.6	Lithology - as above - dk. grey to black, slate w. frag. reefs & interbeds of lt. grey f.g. quartzite. sm. f.g. tuff						301.1	
	30	lt. grey green to dk. green f.g. to lapilli tuff, w local fine agglomerate A pyroclastic interval consisting predominantly of vesiculated lava frag. (60-70%) 1mm to 2-3cm (av. 5cm) w. local agglomerate size lava frag. Frag. are highly sericitic with vesicles infilled by sericite, chlorite carbonate, qtz or rarely pyrite. Interstitial to the fragments is a f.g. matrix of the same comp. as the frag. Bedding is very poorly to well developed; and gen. at low to mod. angles to c.A. av. 35-40°. Cleavage is very weakly dev. This lithology grades to a well bedded to massive f.g. tuff of the same composition.						305	Py rare
	30							310	
	31							310.7	1cm sid vein 11 c.A.
	30							311.1	1cm py 20, sp 3-5 sid vein 30 c.A.
	30							312.2	
	31							314.7	5cm py 99, sid vein 60° to c.A. Py 2-3 f.g. & veinlet.
	30							315.7	Py rare (f.g. & veinlet)
	30							316.3	Py 2-3 f.g. to c.g. & veinlet.
	30							316.6	5cm py vein 65° to c.A.
	30							317.7	Py 2-3 (S) f.g. & veinlet.
	30							317.7	3cm py 70, sid vein 60° to c.A.
	30							317.7	Py 2-3 (S) f.g. & veinlet.
	30							318.8	Py rare.
	30							319.3	1cm py 80 sid vein 45° to c.A.
	30							319.8	Py 10 veinlet (stockwork)
	30							320.7	Py rare
	30							321.7	Py 20 f.g. to c.g. & veinlet.
	30							321.9	
	30							324.5	1cm py 60, sid vein 35° to c.A.
	30							324.8	Py 2-3 f.g. to c.g.
	30							325	Py rare.

FAULT - Pug. - 15° to c.A.

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



c carbonate
& quartz

Mineralization

978041

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON ABUNDANT MASSIVE	DEPTH m	MINERALIZATION
	326.2	Lithology - as above - lt. to dk. grey green f.g. to lapilli tuff.				Py rare.
3.0	327.2	Interbedded lt. grey green f.g. tuff and black cong. slate. Interbeds w. 10cm. of tuff & slate containing rafts of tuff & mudstone.			326.6 327.1 327.4	1cm py 80 sid vein 20° to c.A.
	328.7	lt. grey to dk. grey slate containing fragments rafts & interbeds of lt. grey (micaceous) siltstone to f.g. quartzite.			328.0 328.4 328.7	1cm sid. vein 40° to c.A. 1cm sid vein 35° to c.A. 10mm sid vein 7° to c.A.
1.3	329.4	FAULT ZONE Broken core & sid veining - 70° to c.A. but possibly 15-20°.			329.5 329.7 330	Py 1-2 (10) f.g. & rare veinlet. 10cm sid vein 30° to c.A. post date py vein. 2cm py 95 q/c vein 40° to c.A.
1.4	330	1 FAULT - Broken core 75° to c.A. 2 FAULT - Broken core 20° to c.A. 3 FAULT - Broken core = py vein 20° c.A. 4 FAULT - Broken core 40° to c.A.			331.3 331.4 331.7	Py rare
	330	FAULT - Broken core 30° to c.A. FAULT - Sheared slate 0° to c.A.				Py 1 (5) f.g. (bedded) & rare veinlet.
3.0		QS as for 128.7-148.4 but showing extreme S. sed. det. w. lge amounts of qtzite as frag & rafts. Locally pyritic (bedded) fragments.				
8	335	S/s 330m - 0° to c.A. 335m - 30° to c.A.			335	
2.4	335.9	FAULT - 35° to c.A. Broken core & pyg.			335.9	
	337.1	lt. grey green to dk. grey green lapilli-tuff w. local fine agglomerate.			337.1	5cm py 30 qtz vein 20° to c.A. Py 2-3 f.g. & rare vein.
3.0	340	Pyroclastic interval w. fragments w. 1cm locally reaching 7-8cm. Description as for 301.6 - 326.2.			337.7 340	Py rare.
	340	3cm sid vein 25° to c.A.				
	340	Locally bedded at low & to c.A.				
3.0	342.7				341.6 342.7	2cm py. 90 sid vein 35° to c.A. Py rare 2cm py 50 sid vein 40° to c.A. Py rare
	343.8	Dk. grey to black slate w. fragments rafts and (interbeds) of lt. grey f.g. (micaceous) quartzite.			342.95 345 345.1	1cm py 80 qtz vein 50° to c.A. Py 2-3 (10) f.g. blks & veinlet. 35cm py 95, Sta 1 sid vein 40° to c.A. Py rare
3.0	345	QS. as for 128.7-148.4 but only rare interbeds of quartzite. Qtzite occurs mainly as fragments 1mm to 10cm, gen oblate.			345.7 346.4 346.7 347.1	Py 5-10 veinlet, f.g. & blks. 2cm py 60 sid vein 35° to c.A. 2cm py 80 " " 20cm py 90 sid / set vein 35° to c.A. 15cm py 80 sta 10 sid vein 30° c.A.
3.0	347.1	S/s 345m - 40° to c.A. 350m - 10° to c.A.			347.1 347.4 348.1	Py 1-2 veinlet assoc. w. siderite. 3cm py 80 sid vein 20° c.A. 8cm py 95 sid / set vein 20° c.A.
	349.15				349.15	1cm py 95 sid vein 55° to c.A.
	350				350	

A ABERFOYLE

DRILL HOLE RECORD

978043

Location SEVERN Property QUEEN HILL
 Commenced 16/1/81 Completed 9/3/81
 Objective STRUCTURALLY CONTROLLED LOW GRADE MIN.
SECTION 3120 R.L.-100

District ZEEHAN Bearing (M) 284.3° Hole No G.72
 % Recovery 81% Grid bearing (M) -11.25° Date 20th MARCH '81
 Core size HQ → 72 M NO → 340.5 M Logged S. RICHARDSON
 Co-ordinates S361649.46 N 361205.06 E Dip 63.1° Alt./R.L. 180.58

SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO-ORDINATES			REMARKS
DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE	DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE	
16.5M	61°	IN RODS	EASTMAN	0M	63.1°	284.3°	5361649.46	361205.06	180.58	
45M	62°	IN RODS	"	25M	60.75	283.75				HQ UNABLE TO BE DRILLED PAST 72M.
76M	61.75	"	"	50M	62	283.5				
103M	60.5	"	"	75M	61.75	283				NO DRILLED THROUGH REST OF BAD
131M	60°	"	"	100M	60.5	282.5				GROUND (TO 160M) RESULTING IN
168M	60.75	281.5	"	125M	60	282				SLUDGING PROBLEMS THROUGHOUT THE
198M	61°	280.5	"	150M	60.25	281.5				REST OF THE HOLE.
229M	61°	282°	"	175M	60.75	281				
259M	61°	279.5	"	200M	61	280.75				NO CASING LOST.
288.5	60.5	IN ORE	"	225M	61	280.25				
310M	60.5	277°	"	250M	61	280				
340M	59.75	278.5	"	275M	61	279.5				
				300M	60.5	279				
				325M	60.25	278.5				
				350M	59.5	278				

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



Mineralization

978045

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	MINERALIZATION			DEPTH m	MINERALIZATION
				TRACE	COMMON	ABUNDANT		
	0.4	Lithology - as above - med. to dk. grey (tuffaceous) shale.						
	1.2	So 30m - 10° to c.A.						
	1.6							Py rare
	1.0	30					30	
	2.5							
	33.8	Lt. grey tuffaceous shale. A well bedded (15° to c.A.) f.g. tuffaceous rock. Good bedding fiss.						
	34.7							
	35	Dk. grey shale well bedded 10° to c.A. w. good bedding fissility.					35	
	35.8							
	36.8	Lt. grey f.g. volc. arenite well bedded f.g. tuffaceous sed 15° to c.A.						
	6	Interbedded dk. grey (tuffaceous) shale & H. grey f.g. volc. arenite. Thinly interbedded 10-50cm at low angle to c.A. (10-15°). Core is very broken anduggy						
	2.5					40		
	40							
	1.8							
	1.9							
	43.9							
	45	Med grey to dk. grey shale (tuffaceous) AS FOR 4.75m to 33.8m.				45		
	1.8							
	2.1							
	50					50		

Feature

Bedding  Shearing 
 Foliation  Fault 
 Fragment  Vein 
size & shape  carbonate
 quartz

Mineralization

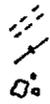
978047

Trace 1-5%
 Common 5-15%
 Abundant 15-60%
 Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	0.4	Lithology - as above - Interbedded med to dk. grey shale and med. grey tuffaceous shale. core extremely broken and puggy. Bedding 100m - 20 to c.a. 80 - 0° 85 - 0° 90 - 25° 95 - 25° 100m - 10°						80	Py rare
	0.8								
	1.1								
	2.2								
	2								
	1.2							85	
	1								
	1.0								
	1.8							90	
	1.0								
	1.7								
	1.4	95							
	1.0								
	0.8								
	0.8								
	100	100							

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



c carbonate
q quartz

Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

978048

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
.5		Lithology - as above - med to dk. grey shale and med. grey tuffaceous shale.							
1.0								103.5	
3.0	105	Poorly oriented stockwork (30-60% c.a.) of thin sid. veins overprinted by much less common qtz. veins						105	
1.8								107.8	5um Sp 60, sid vein 30% to c.a.
.4								110	
1.6									
.5									
1.0	115.2	Lt. grey tuffaceous siltstone Massive to well bedded tuffaceous sediment. local interbeds to 2.10cm of tuffaceous shale. So $\approx 10-15^\circ$ to c.a.						115	
.8									
1.3	119.0	Med to dk. grey shale w. rare tuffaceous shale interbeds. As for 53-115m.						120	
1.8									
2.0									
124.5	125	Lt. grey tuffaceous siltstone As for 115.2-119.0 m.						125	

Feature

Bedding 
Foliation 
Fragment size & shape 

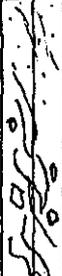
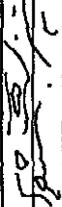
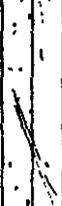
Shearing 
Fault 
Vein 

c carbonate
q quartz

Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

978052

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3-0		Highly tuffaceous massive & shows weak soft sed. det. The interval becomes more pelitic w. depth. It is locally extremely conglomeratic (intraformational) w. rathing & slumping (common). Bedding is gen. well developed and varies between 60° to c.A. Gen. 20-30° to c.A. weak cleavage to bedding.							
3-0	205	FAULT - sil. leaded breccia - 60° c.A.						205.0	Py rare (thin wispy bedded v.f.g. PY)
3-0	210							205.4	Py 1-2 (5) v.f.g. (bedded)
3-0	210.4	55° c.A. FAULT - broken core & 10cm Py siderite						210.0	Py 15 v.f.g. bedded. 10cm Py 30 sil. det. 55° to c.A.
3-0	215	Interbedded grey green f.g. volc. arenite to tuffaceous mudstone & local dk. grey to dk. grey green shale (tuffaceous). An interval of tuffaceous massive to well bedded sediment showing little soft sed. det. Bulk of interval is gen. massive to weakly bedded f.g. volc. arenite w. interbedded to 50cm of well bedded tuffaceous mudstone to tuffaceous shale. Bedding varies from 70 to 10° to c.A.						210.4	
3-0	220							215	
3-0	225							220	
3-0	225							225	

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



c carbonate
q quartz

Mineralization

978053

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	3.0	Lithology - as above - Interbedded gray green f.g. volc. arenite to tuffaceous mudstone & local dk. gray to dk. grey green shale (tuffaceous)							
	3.0								
	230							230	
	3.0	Lt. gray green f.g. volc. arenite w. interbeds wisps & rafts of dk. grey shale. Only a marginal change to the unit above. The pelitic sed component is markedly increased and tuffaceous mudstone is not present. Soft sed def. is also much more intense, in the form of rafted shale, brecciated tuffaceous sed & common slumping. Volc. arenite is by far the most common lithology (295%) the rest as shale.						231.1	
	3.0							235	Py rare
	3.0							238.0	
								238.5	100% Py 20, Py 0 trace, qtz vein, 15% Py (1) veinlet
								238.8	Py 35, Py 2-3 f.g. to c.g. Mal vein 55% calc
	3.0							240	Py 2-3 irregular veinlets gen. mod. angle to C.A.
								240.3	
								241.6	Py rare
		FAULT ZONE Broken core 35° to C.A.						242.0	
	2.9							242.3	Py 3-5 f.g. to w/b & veinlet 60° to C.A.
								243.2	
								244.5	Py rare (veinlets)
	2.45							245	
	3.0							246.0	Py 3-5 veinlets assoc. w. qtz 30° to C.A.
								246.4	
	3.0							250	Py rare.

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



c carbonate
q quartz

Mineralization

978055

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON ABUNDANT MASSIVE	DEPTH m	MINERALIZATION
	3.0	arenite and mudstone are finely interbedded. Dk. green mottled tourmaline? alteration is (assoc.) with the min. Bedding is at a low to moderate angle to c.A. 271.8 m 20° c.A. 274.8 m 30° c.A.			275.3 276.15 277.75	Py 1 as above Py 15-20 f.g. to blob rep. buff. interbeds w. shale & less common veinlets // to bedding and low to c.A. local silicification Py 1-2 (5) as v. thin (as. 1mm) veinlets of Py ± Qtz at 0-65° to c.A. Also f.g. to blob. (stockwork) 5mm Py 10, Aspy. 10 veinlets 30° c.A.
	3.0	orientation at 289.5 indicates bedding averages subvertical with 150° m. typical strike. Vein mineralization subvertical with no typical strike.			278.7 279.5 280	Py & Py. rare. Py 1-2 (5), veinlets av. 1-2 mm (stockwork), no preferred orient. Also less common f.g. to blob. Py rare assoc. w. Py.
	3.0				282.5	Py 12-15 (30-40) as f.g. to blob replacing buffaceous interbeds and as veinlets locally w. Qtz. No p.c. to veins. local stockwork. Py 2-3 (10) blob & vein gen. assoc. w. cavities. Also assoc. w. Py.
	3.0				287.0	Py 5-10 as gen. f.g. replacing buffaceous interbeds and as veinlets at gen. low angle to c.A. Veinlets much less common than interval above. Py rare
	3.0				290.8 291.7 292.0 292.5	Py 10-15 f.g. replacing buffaceous interbeds. Also as veinlets at low angle to c.A. Py 2-3 veinlets assoc. w. Py. Veinlets Py. as below. Cass. 5-10 u.f.g. pink rep. buffaceous interbeds assoc. w. f.g. Py.
	3.0				295	Py 7-10 mainly 1mm av. veinlets (stockwork) gen. low angle to c.A. Also f.g. disc. concent. in buffaceous interbeds. Py rare blob.
	3.0				297.7 298.35	Py 15 f.g. to blob & unoriented veinlet assoc. w. silicification. Py 3-5 veinlet - oriented at low angle to c.A. Py 3-5 as above. assoc. w. Py.
	298.5	← 298.5 - 301.1 the sericite component of the rock is less dominant w. the incoming of a lt. to dk. brown microcrystalline? alteration mineral. Phlogopite? →			300	

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

978057

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON ABUNDANT MASSIVE	DEPTH m	MINERALIZATION
		Lithology - as above - Lt. grey f.g. (micaceous) quartzite w. local Lt. grey shale interbeds.				Py rare
	327.0	FAULT - μ g. 25° to c.A.			326.6	
3.0		Lt. grey gen. highly silicified f.g. quartzite + (shale)			327.0	
	330	Lithology as above but silicification is gen. intense and associated w. anhedral to subhedral f.g. to c.g. py and py. blebs + veinlets.			330	Py 1-3 (10) f.g. to c.g. sub to anhedral dissem. occasionally controlled by bedding. Also irreg. blebs + veinlets w. no. f.o. Distinct veinlets > 5um < 1um. have p.o. \approx 30° to c.A.
3.0		Bedding is locally well developed and constant around 35-40° to c.A.				
	332.6				332.6	10 cm py 95 vein 25° to c.A.
3.0					333.0	10 cm py 20 veinlets 30° to c.A.
	335				335	Py 1-3 (10) as above.
3.0						
	340				340	
	340.5	END OF HOLE			340.5	
	345				345	
	350				350	

RL-00

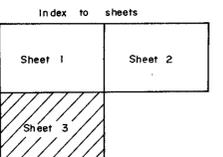
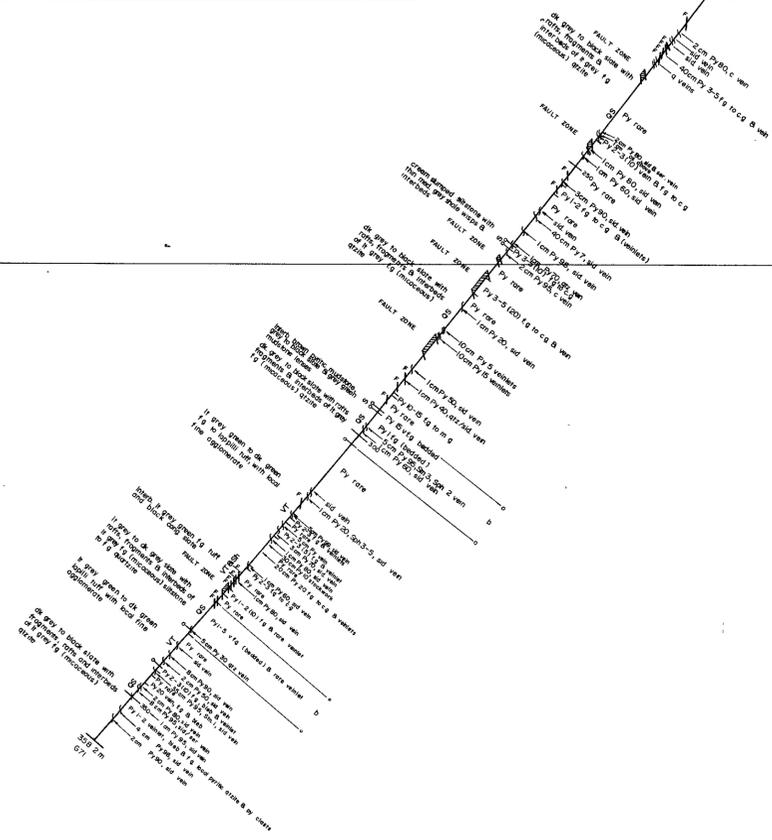
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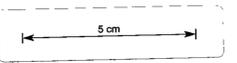
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RL-200

RL-200



978060

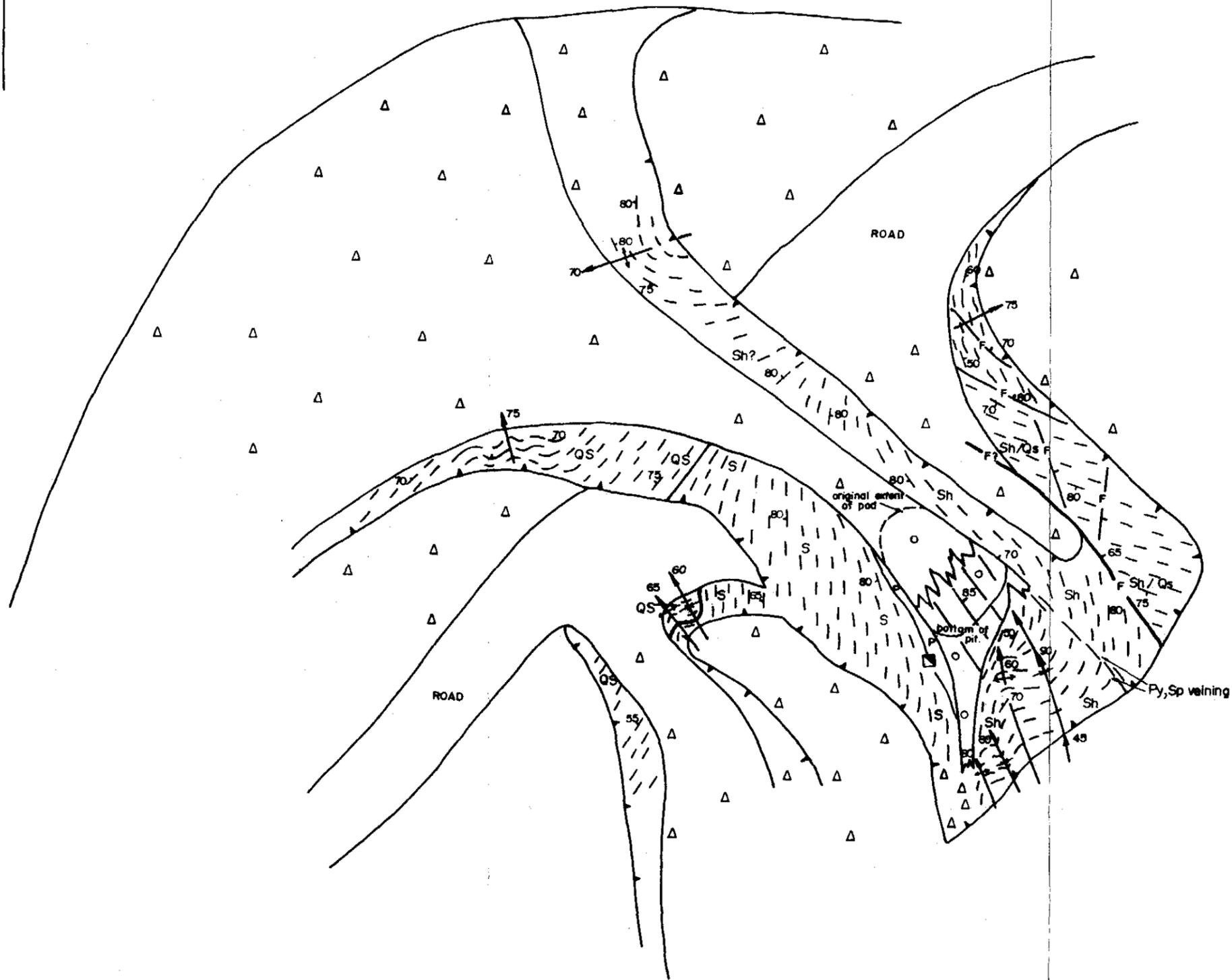


A Aberfoyle Exploration Pty Ltd		
Geology: S.M.R.	NORTH WEST TASMANIA QUEEN HILL E.L. 47/71 CROSS SECTION 2980 81-1547	Location code:
Drawn: R.J.E.		Date: January, 1981
Checked:		Scale: 1:500
Revised by: Gue:		Plate No: QH129/2980 Sheet 3

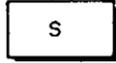
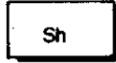
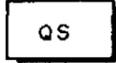
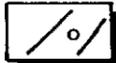
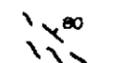
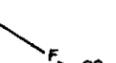
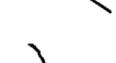
Reference: None

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210.00	10.00		218.00	8.00	
215.00	15.00		224.00	14.00	
220.00	20.00		230.00	20.00	
225.00	25.00		236.00	26.00	
230.00	30.00		242.00	32.00	
235.00	35.00		248.00	38.00	
240.00	40.00		254.00	44.00	
245.00	45.00		260.00	50.00	
250.00	50.00		266.00	56.00	
255.00	55.00		272.00	62.00	
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265.00	65.00		284.00	74.00	
270.00	70.00		290.00	80.00	
275.00	75.00		296.00	86.00	
280.00	80.00		302.00	92.00	
285.00	85.00		308.00	98.00	
290.00	90.00		314.00	104.00	
295.00	95.00		320.00	110.00	
300.00	100.00		326.00	116.00	
305.00	105.00		332.00	122.00	
310.00	110.00		338.00	128.00	
315.00	115.00		344.00	134.00	
320.00	120.00		350.00	140.00	
325.00	125.00		356.00	146.00	
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335.00	135.00		368.00	158.00	
340.00	140.00		374.00	164.00	
345.00	145.00		380.00	170.00	
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355.00	155.00		392.00	182.00	
360.00	160.00		398.00	188.00	
365.00	165.00		404.00	194.00	
370.00	170.00		410.00	200.00	
375.00	175.00		416.00	206.00	
380.00	180.00		422.00	212.00	
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425.00	225.00		476.00	266.00	
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440.00	240.00		494.00	284.00	
445.00	245.00		500.00	290.00	
450.00	250.00		506.00	296.00	
455.00	255.00		512.00	302.00	
460.00	260.00		518.00	308.00	
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505.00	305.00		572.00	362.00	
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550.00	350.00		626.00	416.00	
555.00	355.00		632.00	422.00	
560.00	360.00		638.00	428.00	
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570.00	370.00		650.00	440.00	
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600.00	400.00		686.00	476.00	
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1005.00	805.00		1172.00	962.00	
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1040.00	840.00		1214.00	1004.00	
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1260.00	1060.00		1478.00	1268.00	

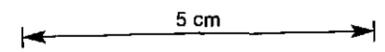
MN



LEGEND

-  Scree and Fill
-  Interlaminated grey brown pyritic mudstone, lt. grey to dk. grey slate and black carbonaceous slate.
-  Black carbonaceous slate
-  Interlaminated dk. grey to black slate and lt. grey t.g. quartzite. Locally highly weathered to off-white pug
-  Pyrite - quartz - cassiterite vein pod showing orientation of strong jointing
-  Brown pyritic pug
-  Trend and dip of bedding and dominant cleavage
-  Mesoscopic fold axis and plunge
-  Plunge of numerous minor folds
-  Fault with dip of plane
-  Rock face
-  Exposed stope

978063



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Geology: S.M.R.	NORTH WEST TASMANIA	Location code:
Drawn:	QUEEN HILL BULK SAMPLE	Date: March, 1981
Traced: J.L.R.	STORMSDOWN PIT	Scale: 1:250
Checked:	GEOLOGY	Plate No. QH. 165.
Revised by: Date:	81-1547	