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Dept of M. A. D.	G. G.	TO. J. J.
10 AUG 1981		
DEPT. OF MINES		
6763/81		

McINTYRE MINES (AUSTRALIA) PTY. LTD.

QUARTERLY REPORT

FOR

EXPLORATION LICENCE 17/68 AND C. L. 105M/77

(TASMINEX N. L. & McINTYRE MINES (AUSTRALIA) PTY. LTD.)

FOR THE QUARTER

MAY 4th, 1981 TO AUGUST 3rd, 1981

5th August, 1981.

C. H. Whitehead.

EXPLORATION LICENCE 17/68 AND C. L. 105M/77EXPLORATION WORK - PERIOD MAY 4th, 1981 - AUGUST 3rd, 1981.CONTENTSi - TEXT

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1. EXPLORATION - E.L. 17/68

During the quarter ending August 3rd, 1981, McIntyre Mines (Australia) Pty. Ltd., as manager of a joint venture with Tasminex N.L. have continued exploration activities within E.L. 17/68. Investigations have concentrated upon:-

- a) completing detailed investigations at known surface skarn locations within the outlying portions of the E.L.
- b) undertaking an overall geologic appraisal of the area covered by the licence, the ultimate intentions being to classify known and possible tungsten resources on the property; the potential subsurface tungsteniferous geologic targets; and, to more fully evaluate the potential of "other metal mineralisation" in the E.L.

Specific details of the above work at various locations are outlined below, please refer to Plan No. 1 for the precise location of areas worked.

a) KARA SOUTH

During January - February 1981, a diamond drill programme consisting of eight holes (Nos. 295 to 301) totalling 225.55 metres was completed at Kara South. Assay results of drill core submitted for analysis have finally been received, and a full appraisal of the drill programme has been completed.

Drill logs and assay results for DDH 295 to 301 are attached as Appendix A and B, and Plan Nos. 2 and 3 show the area drilled and resultant drill sections.

The results of investigations at Kara South can be summarised as follows:-

Detailed surface examinations in the form of U.V. lamping, ground magnetics, geologic mapping, trenching and sampling revealed the existence of a new scheelite bearing skarn along the eastern flank of the main Kara South skarn between Section Lines 4300N and 4380N. This zone was narrow, varying in width from 3 to 10 metres, but could be followed on surface for a strike distance of 77 metres. The skarn was magnetiferous, and on removal of surface rubble was seen to be partially weathered to fresh showing coarse to fine disseminated scheelite mineralisation with values in excess of 1% WO<sub>3</sub> (see Plan No. 2).

Ground magnetics indicated the zone could continue along strike an additional 160 metres north and 60 metres south, but the magnetic anomaly was narrower and less pronounced. Bad ground conditions along strike prohibited further surface investigations by trenching, and it was therefore decided to implement a diamond drill programme both to investigate the down dip subsurface extensions of the outlined mineralised skarn and its possible extensions along strike.

In total eight shallow diamond drill holes were completed. These certainly helped clarify an interpretation of the local geology, but also downgrade the economic potential of the location. The main points arising from drilling were as follows (please refer Plan No. 3).

- the surface mineralised scheelite bearing skarn zone dips west at an average dip of approx.  $35-50^{\circ}$ .
- the mineralised skarn is underlain by a grey siltstone-sandstone formation and overlain by unmineralised skarns and clays.
- down dip extensions of the mineralised zone (to depths of 35 metres) were found to be narrower, and of far inferior  $WO_3$  grades to that at the surface.
- best grade intersections ( $+0.5\% WO_3$ ) were made on the most southerly Section Line (4300N) and 40 metres north of the northerly exposed portion of surface skarn (4420N).
- drilling at the two northern section lines (4420N and 4460N) revealed a shallow subsurface granite, and as a result both down dip extensions of the skarn zone and tonnage potential are limited and downgraded respectively.

Although the overall results of the above drilling programme were disappointing, potential for extensions in a southerly direction remain, and provided the mineralised zone is not discordantly cut out by subsurface granite, it could exist at depth beneath the main Kara South skarn.

b) HAMPSHIRE SILVER MINE LOCATION

Old underground workings at this property were examined and sampled, as likewise were spoil heaps, pits and collapsed adits. Assay results of samples received to date are shown in Appendix C.

The property is developed along a granite:skarn contact, the latter showing consistent and anomalous fluorine content.

The area was gridded on surface, and a ground magnetic survey run along lines of 12.5m spacing and readings at 5m intervals. An anomalous zone of width 10 - 15 metres was outlined over a strike distance of approx. 200 metres before being masked by surrounding Tertiary basalt cover.

Grid soil sampling on 10 metre squares was undertaken over and around this magnetic anomaly. Assays of these samples are incomplete, but as yet only the tin expression appears to be of any significant interest.

Work is continuing at this location.

c) KARA NO. 2 LOCATION

Pan concentrate sampling of drainage around the Kara No. 2 main magnetite body and in the surrounding Husetop granite revealed sporadic but anomalous tin and tungsten values.

Surface grab rock sampling around and in the skarns at Kara No. 2, Kara No. 2 East and Kara No. 2 South showed negative tungsten values (Appendix D), and it is inferred that anomalous tungsten is related to minor quartz-tourmaline vein systems in the neighbouring Husetop Granite. The possible tin potential of the area is still being investigated.

d) KARA NORTH - 266 ZONE

A detailed evaluation of the "266 Zone" has been completed, and new drill sections of the location have been drawn.

A small body (150,000 tonnes) of scheelite bearing fresh skarn exists at depth, and the study showed that unless additional drilling is undertaken to prove potential up-dip reserves, the present ore to waste ratio would prohibit economic open-pit mining of the deposit.

The study likewise evaluated "other metal" distributions and relationship of this magnetite skarn.

e) LOCATION L. 13

Follow-up grid soil sampling of a poorly exposed skarn at the northern extremity of this location defined more accurately the limits of associated tungsten anomalism (up to 800ppm  $WO_3$ ) See Appendix E.

This skarn, where exposed, is seen to be highly weathered and tungsten values not related to fresh scheelite mineralisation. For this reason no additional immediate work is planned, except for completion of exploration plans.

f) LOCATION L. 4

A previous geochemical soil survey at this location (1979) outlined some sporadic widely separated tin values. Because of this locations proximity to the Hampshire Silver Mine and its recently revealed tin values from soil sampling, the anomalous L. 4 samples have been resampled on a more detailed basis and samples submitted for analysis.

g) LOCATION L.10

Follow-up systematic soil sampling was completed along grid line 5200N, where previous sampling at 25 metre spacing had recorded  $WO_3$  values. This detailed sampling (Appendix F) showed no large scale development of tungsten anomalism, the latter being associated with a minor greisen zone in granite.

h) LOCATION L. 11

Pan concentrate sampling of drainage around this skarn showed that anomalous (+ 200ppm)  $WO_3$  values are related to intermittent quartz tourmaline vein developments. along the margin of the adjacent Ringwood Granite. No further work is planned in the area. 9

i) SUTTONS SKARN LOCATION

With a view to possible associated tin-flourine mineralisation, the previous work at this skarn, undertaken by Anzeco, was reviewed. The skarn is slightly tungsteniferous (max. 1000ppm  $WO_3$ ) and highly oxidised in nature. Surface sampling of the skarn was completed and samples submitted for general analysis.

j) REGIONAL MAPPING - GEOCHEMISTRY

Regional geologic mapping and ancillary pan concentrate sampling was continued in the E.L., particular emphasis being given to the less well known portions of the E.L. This work should be completed early in the following quarter, and updated geologic maps and sections will then be prepared.

2. EXPLORATION - C.L. 105M/77

Except for monitoring and updating mine plans of the Tasminex N.L. operations at Kara No. 1, no exploration work was undertaken within C.L. 105M/77 during the present quarter.

4. GENERALa) PERSONNEL

McIntyre Mines (Australia) Pty. Ltd., personnel employed during the present quarter, and involved in exploration activities in E.L. 17/68 have included:-

- One geologist - Full time
- One prospector - Full time
- One field assistant - Casual.

One typist and one draftsman have been employed on a part time basis.

b) REPORTING

During the quarter in question, progress reports of exploration work and statements of expenditure related to both E.L. 17/68 and C.L. 105M/77, have been submitted on a monthly basis to the Director Of Mines, Mines Department, Hobart.



Cliff H. Whitehead,  
McIntyre Mines (Australia) Pty. Ltd.

3. STATEMENT OF EXPENDITURESQUARTERLY PERIOD - MAY 4th, 1981 to AUGUST 3rd, 1981

	<u>E.L. 17/68</u>	<u>C.L.105M/77</u>	<u>CHARGES EX CANADA</u>	<u>TOTAL</u>
Office, rent, services	3,684	1,327	1,084	6,095
Staking	1,233	129	-	1,362
Camp supplies, hotel etc.	175	-	-	175
Geology	2,637	958	8,997	12,592
Ground magnetometer	1,016	-	-	1,016
Geochemistry	5,416	-	-	5,416
Assays-metallurgy	-	(3,020)	-	(3,020)
Transportation	1,060	990	23,426	25,476
Diamond Drilling	275	-	-	275
Assessment work	284	284	-	568
Legal Fees	10,601	10,603	2,613	23,817
Geological consulting	-	-	861	861
Feasibility	-	1,321	-	1,321
Insurance	<u>770</u>	<u>771</u>	<u>-</u>	<u>1,541</u>
	<u>27,151</u>	<u>13,363</u>	<u>36,981</u>	<u>77,495</u>

Total expenditure previously reported = \$1,787,621

Total to date = \$1,865,116

APPENDIX AKARA SOUTH DRILL LOGS - DDH's 295 - 301

<u>HOLE NO.</u>	<u>DRILL SEC LINE</u>	<u>COORDINATES</u>	<u>INCLINATION</u>	<u>DEPTH DRILLED</u> (metres)
295	4340N	4340N-7743E	90 <sup>0</sup>	31.39
296	4340N	4344N-7717E	45 <sup>0</sup> E	28.04
296A	4340N	4344N-7715E	90 <sup>0</sup>	21.03
297	4300N	4297N-7712E	60 <sup>0</sup> E	35.97
298	4420N	4421N-7686E	60 <sup>0</sup> E	30.18
299	4460N	4464N-7671E	90 <sup>0</sup>	18.29
300	4420N	4416N-7651E	70 <sup>0</sup> E	27.43
301	4380N	4383N-7685E	70 <sup>0</sup> E	33.23
				<u>225.55 metres</u>

SCALE 1:100.				LENGTH <u>31.39m</u> NORTHING <u>4340N</u>		M'INTYRE MINES (AUST.) PTY. LTD. EXPLORATION DEPARTMENT			
% CORE RECOVERY	CORE SPLIT REC.	FEATURE	FRACTURING	BEDDING	GEOLOGY	MINERAL	AZIMUTH <u>—</u>	EASTING <u>7743E.</u>	
							DIP AT COLLAR <u>90°</u>	ELEVATION <u>524.0</u>	
LOCATION <u>KARA SOUTH. (22-29 DEC 1980).</u>							MOLE No <u>295</u>	PAGE / OF <u>1/2.</u>	
							PROJECT <u>KARA</u>		
1.00		1.00 1250			Tdg		MINERALISATION ↑		
1.62		0.52 800						GEOLOGY	
2.34		0.82 460						SKARN.	
2.74		0.40 180						DIOPSIDE GARNET MAGNETITE SKARN.	
		1.63 644					0.0 - 1.52m - COARSE, HARD FRESH DIOPSIDE SKARN.		
4.27							1.52 - 2.74m - MORE MAGNETITE (UP TO 25%) FRACTURED.		
							2.74 - 4.27m - CLAY + SKARN RUBBLE		
							LITTLE SCHEELITE SPECS IN LAST RUN.		
					AT		4.27m		
		69.0					SILTSTONE.		
6.40							LIGHT GREYISH BROWN FINE GRAINED HOMOGENEOUS SILTSTONE. LITTLE BANDED. JOINTED ENOUGH - NOT FRACTURED		
7.81		62.7					NONE.		
7.92		60.7							
		72.8							
8.83									
		100							
10.36									
		95.05							
11.55									
		96.72							
12.80									
		100							
13.71									
		100							
14.62									
		86.85							
15.84									
		91.2							
16.75									
		65.35							
17.67									
		57.85							
19.50									
		100							
21.63									
		100							
23.46									
23.47		100							
		89.2							
24.99									
							SILTSTONE.		
							AS ABOVE. MUCH FRESHER.		
							19.50m		
							NIL.		

ANGLE READ: | | |

ANGLE CORRECTED: | | |

AZIMUTH: | | |

DEPTH: | | |

SURVEY: | | |

CONTRACTOR: | | |

CORE: | | |

CASING: | | |

LOGGED BY: | | |

DATE: | | |

STARTED: | | |

FINISHED: | | |

SCALE 1:100		LENGTH <u>31.39m</u>		NORTHING <u>4240N</u>		MINTYRE MINES (AUST.) PTY. LTD.		
% CORE RECOVERY	CORE SPLIT REC.	FEATURE	FRACTURING	BEDDING	GEOLOGY	MINERAL	EXPLORATION DEPARTMENT	
							AZIMUTH <u>-</u> EASTING <u>7748E</u>	
							DIP AT COLLAR <u>90°</u>	ELEVATION <u>524.0</u>
							HOLE No <u>295</u> PAGE/OF <u>2/2</u>	
							LOCATION <u>KARA-SOUTH</u> PROJECT <u>KARA</u>	
							MINERALISATION	
							25.62	
							27.43m	
							31.39m	
							31.39m END OF HOLE.	
							GEOLOGY	
							SILTSTONE.	
							PREDOMINANTLY LIGHT GREY.	
							HARD-FRESH.	
							FINE GRAINED.	
							QUARTZITE	
							LIGHT GREY FIBROBLANULAR, FINE GRAINED QUARTZITE	
							SURVEY	
							CONTRACTOR _____	
							CORE _____	
							CASING _____	
							DATE _____	
							STARTED _____	
							FINISHED _____	

118-CORE. To 31.39m.  
8. CORE BOXES

ANGLE READ  
ANGLE CORRECTED  
AZIMUTH  
DEPTH

SCALE 1:100				LENGTH <u>28.04m</u> NORTHING <u>4344N</u>		MINTYRE MINES (AUST.) PTY. LTD. EXPLORATION DEPARTMENT		
% CORE RECOVERY	CORE SPLIT REC.	FEATURE		BEDDING	GEOLOGY	MINERAL	MOLE NO	PAGE / OF
		INT	APP. NO. 2.					
LOCATION <u>KARA SOUTH. (5-8 JAN 1981)</u>							PROJECT <u>KARA.</u>	
					CL	MINERALISATION NIL.		
4-27	75.5							
5-12	100							
6-40	100							
7-22	100				SP.			
7-92	75							
	73.2							
9-75								
10-26	100							
	100					ISOLATED SCHERLITE SPECK. Y 14.40m.		
11-89					Tm. 25-35			
	63.2	1.82						
13-41								
	26.2	6.92						
14-63		0.97						
	62.6	0.97	330					
16-50		0.97	60					
17-97	100							
	28.0				SL			
18-29								
	71.0							
20-12								
20-73	100							
	91.3							
22-56								
	100							
23-77								
	92.9							



**MINERALISATION**

CLAY.

NIL.

6.40m

SANDSTONE - MUDSTONE.

LIGHT BROWN COLOURED.  
FINE GRAINED.  
Fe STAINING ON JOINTS AND FRACTURES.  
LITTLE STRUCTURE.

11.89m

SKARN.

MAGNETITE SKARN.

25% Fe - 11-89-14-63.  
35% Fe - 14-63-16-90.  
POOR RECOVERY.

16.90m

SILTSTONE.

LIGHT GREY-BROWN SILTSTONE.

HETEROGENEOUS - NO LAMINING.  
FRACTURED AND RUBBY TO 2160m.  
MORE MASSIVE IN LATER RUNS.

ANGLE READ	_____
ANGLE CORRECTED	_____
AZIMUTH	_____
DEPTH	_____
SURVEY	_____
CONTRACTOR	_____
CORE	_____
CASING	_____
LOGGED BY	_____
DATE	_____
STARTED	_____
FINISHED	_____

SCALE 1:100				LENGTH <u>28.04m</u> NORTHING <u>R344N</u>		MINTYRE MINES (AUST.) PTY. LTD.					
% CORE RECOVERY		CORE SPLIT		FRACTURING		BEDDING		GEOLOGY		MINERAL	
FEATURE		FRACTURING		BEDDING		GEOLOGY		MINERAL		SURVEY	
LENGTH <u>28.04m</u>		NORTHING <u>R344N</u>		AZIMUTH <u>296.90</u>		EASTING <u>777E</u>		DIP AT COLLAR <u>45°</u>		ELEVATION <u>521.4m</u>	
LOCATION <u>KARA SOUTH (5-8. JAN 1981)</u>		PROJECT <u>KARA</u>		HOLE No <u>296</u>		PAGE / OF <u>2/2</u>		GEOLOGY		ANGLE READ	
MINERALISATION		GEOLOGY		GILTSTONE (CONTINUED)		BAND OF LIGHT GREY HARD QUARTZITE @ 25.90-26.20m		ANGLE CORRECTED		AZIMUTH	
NIL.		28.04m		28.04m		END OF HOLE.		DEPTH		CONTRACTOR	
DATE		APPROVED		SIGNED		CONTRACTOR		CORE		CASING	

SCALE 1:100				LENGTH <u>21.03m</u> MONTHING <u>4344N</u>		MINTYRE MINES (AUST.) PTY. LTD. EXPLORATION DEPARTMENT		
% CORE RECOVERY	CORE SPLIT	FEATURE	FRACTURING	BEDDING	GEOLOGY	MINERAL	AZIMUTH <u>-</u>	EASTING <u>7715E</u>
							DIP AT COLLAR <u>90°</u>	ELEVATION <u>521.4m</u>
							HOLE No <u>296A</u>	PAGE / OF <u>1 / 1</u>
							PROJECT <u>KARA.</u>	
					CI		MINERALISATION	
							GEOLOGY	
							CLAYS.	
							WEATHERED BROWNISH YELLOW CLAYS.	
								ANGLE READ
								ANGLE CORRECTED
								AZIMUTH
								DEPTH
								SURVEY
								CONTRACTOR
								CORE
								CASING
								DATE
								APPROVED
								ISSUED

DEPTH (m)	% CORE RECOVERY	CORE SPLIT	FEATURE	FRACTURING	BEDDING	GEOLOGY	MINERAL	DESCRIPTION
0-3.4	3.9%	4.3				CI		NIL
3.4-5.18	100	100				S.		NIL
5.18-6.10	100	100				S+O.		NIL
6.10-7.62	100	100				S		NIL
7.62-8.53	100	100				S		NIL
8.53-11.28	100	100				S		NIL
11.28-13.41	75.2	80				Sr.B.		NIL
13.41-14.94	80	100				Sr.B.		NIL
14.94-15.54	71.9	32.8				Sr.B.		NIL
15.54-16.76	100					Sr.B.		NIL
16.76-18.29	100					Sr.B.		NIL
18.29-21.03	100					Sr.B.		NIL

DEPTH (m)	DESCRIPTION
0-4.57	CLAYS. WEATHERED BROWNISH YELLOW CLAYS.
4.57-6.00	LIGHT BROWN SANDSTONES. IMPREGNATED WITH Fe.
6.00-10.00	SANDSTONES + QUARTZITES. ALTERNATING HORIZONS OF ABOVE. DUNT GREY IN COLOUR. SANDSTONES SLIGHTLY IMPREGNATED WITH Fe. QUARTZITES, FINE GRAINED + HARD.
10.00-15.54	SANDSTONE. LIGHT GREY BROWN SANDSTONES. VERY FINE GRAINED. SOME ZONES HEAVILY FRACTURED JOINTS Fe IMPREGNATED.
15.54-21.03	SANDSTONES + QUARTZITES. LIGHT GRAY-BROWNISH IN COLOUR AS ABOVE MATERIAL 6-10m.

DEPTH (m)	MINERALISATION	GEOLOGY
0-4.57	NIL	CLAYS. WEATHERED BROWNISH YELLOW CLAYS.
4.57-6.00	NIL	LIGHT BROWN SANDSTONES. IMPREGNATED WITH Fe.
6.00-10.00	NIL	SANDSTONES + QUARTZITES. ALTERNATING HORIZONS OF ABOVE. DUNT GREY IN COLOUR. SANDSTONES SLIGHTLY IMPREGNATED WITH Fe. QUARTZITES, FINE GRAINED + HARD.
10.00-15.54	NIL	SANDSTONE. LIGHT GREY BROWN SANDSTONES. VERY FINE GRAINED. SOME ZONES HEAVILY FRACTURED JOINTS Fe IMPREGNATED.
15.54-21.03	NIL	SANDSTONES + QUARTZITES. LIGHT GRAY-BROWNISH IN COLOUR AS ABOVE MATERIAL 6-10m.

DEPTH (m)	ANGLE READ	ANGLE CORRECTED	AZIMUTH	DEPTH
0-21.03				

DEPTH (m)	CONTRACTOR	CORE	CASING
0-21.03			

DEPTH (m)	DATE
0-21.03	

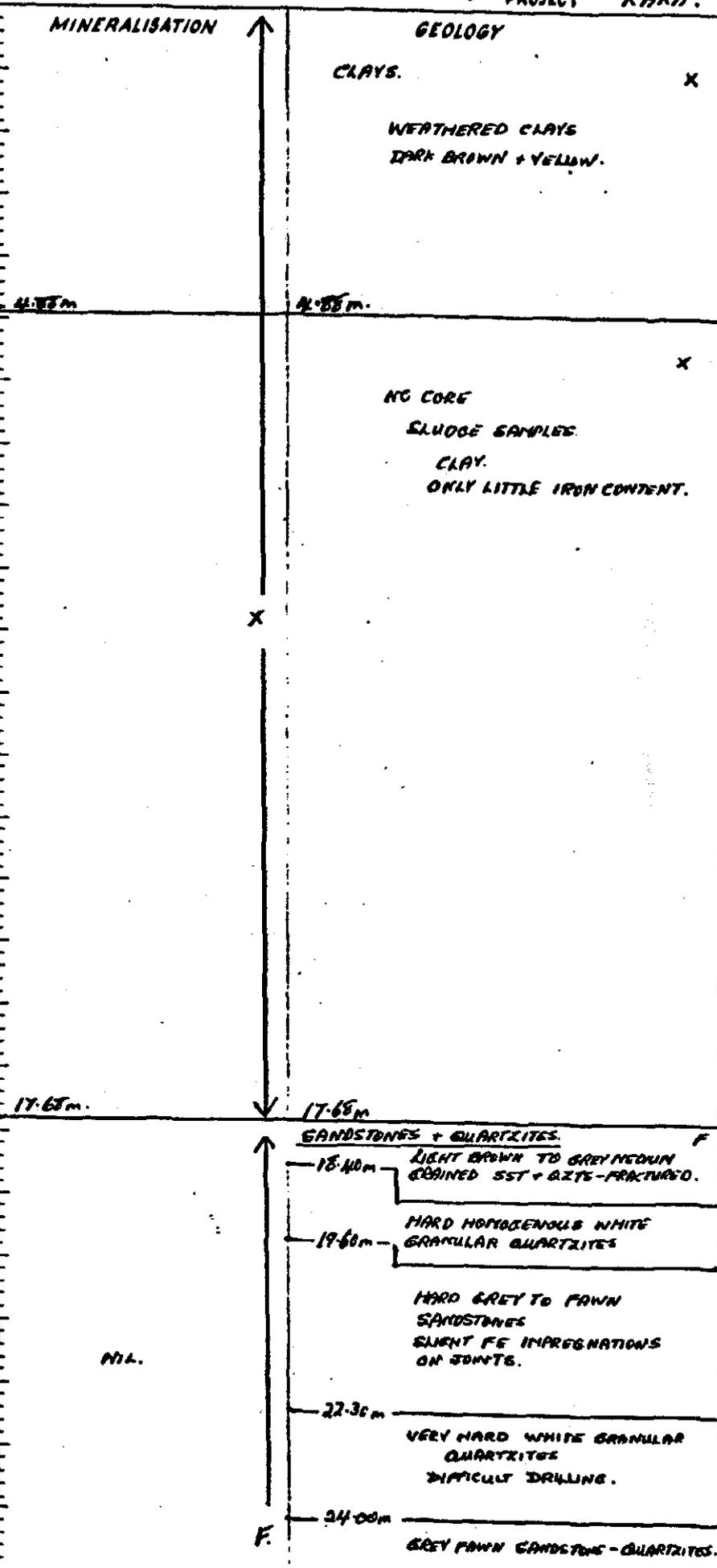
  

DEPTH (m)	APPROVED	ISSUED
0-21.03		

END OF HOLE - 21.03m.

SCALE 1:100				LENGTH <u>35.97m</u>	NORTHING <u>4297N</u>	MINTYRE MINES (AUST.) PTY. LTD. EXPLORATION DEPARTMENT	
% CORE RECOVERY	CORE SPLIT	FEATURE		AZIMUTH <u>90°</u>	EASTING <u>7712E</u>	HOLE No	PAGE / 1/2
		INTERNAL	PIV. NO.	DIP AT COLLAR <u>60°</u>	ELEVATION <u>519.5</u>		
				LOCATION <u>KARA SOUTH (22-30 JAN 1981)</u>		PROJECT <u>KARA.</u>	
				MINERALISATION	GEOLOGY	ANGLE READ	
					CLAYS.	CORRECT	
					WEATHERED CLAYS	AZIMUT	
					DARK BROWN + YELLOW.	DEPTH	
						SURVEY	
						CONTRACTOR	
						CORE	
						DATE	
						LOGGED BY	
						STARTED	
49.2		4.5E	3.40.				
4.8E							
5.7E		0.91	290.				
6.7E		0.91	280				
7.6E		0.91	570				
8.5E		0.91	490				
9.4E		0.91	430				
10.2E		0.91	390				
11.8E		1.32	560				
12.5E		0.91	340				
13.4E		0.91	610				
14.6E		1.24	640				
15.5E		0.87	470				
16.5E		0.86	700				
17.6E		1.18	500				
18.4E							
18.7E							
19.5E							
100							
20.7E							
100							
21.3E							
76.9							
22.2E							
87.5							
23.9E							
100.		1.37	0.05E				

GLUCCO ONLY



ANGLE READ

ANGLE CORRECT

AZIMUT

DEPTH

SURVEY

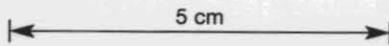
CONTRACTOR

CORE

DATE

LOGGED BY

STARTED



SCALE 1:100				LENGTH <u>35.97m</u> NORTHING <u>1297N.</u>		MINTYRE MINES (AUST.) PTY. LTD. EXPLORATION DEPARTMENT							
% CORE RECOVERY	CORE SPLIT	FEATURE	FRACTURING	BEDDING	GEOLOGY	MINERAL	AZIMUTH <u>270° 90</u> EASTING <u>7712E</u>						
							DIP AT COLLAR <u>-60°</u> ELEVATION <u>525.2</u>						
LOCATION <u>KARA SOUTH. (22-30 JAN. 1951)</u>							HOLE No	PAGE / OF					
							<u>297</u>	<u>2/2</u>					
							PROJECT <u>KARA.</u>						
25.80					Tel	MINERALISATION  FINE DISSEMINATED SCHAFELITE MINERALISATION.      COARSE SCHAFELITE CRYSTALS & SPECKS IN FINAL 1 METRE RUN.	25.20m	GEOLOGY	F	ANGLE READ			
100		1.10						SKARN.			ANGLE CORRECTED		
26.48		1.08						EPIDOTE DIOPSIDE SKARN. (26.52-26.75 - WHITE QUARTZITE BANDS).					
27.8		0.91					Tm 6.			F.			
27.43		0.92							MAGNETITE SKARN. 60% MAGNETITE CONTENT. LITTLE EPIDOTE AND DIOPSIDE AT BEGINNING AND END OF RUN.			AZIMUTH	
85.7		0.87										DEPTH	
28.34		0.586											
84.8							Q+S	NIL.	27.43m				
27.26										QUARTZITES AND SANDSTONES	F		
84.8										GREY + FAWN INDURATED SANDSTONES & QUARTZITES.			SURVEY
30.16							31.85m						
100													
21.85													
86.3													
32.00													
100													
32.92													
91.8													
34.75													
73.8					Q.		34.75m	WHITE HOMOGENEOUS QUARTZITES.					
35.97							35.97m	END OF HOLE - 35.97m.					

CONTRACTOR \_\_\_\_\_  
CORE \_\_\_\_\_  
CASING \_\_\_\_\_

LOGGED BY \_\_\_\_\_ DATE \_\_\_\_\_  
STARTED \_\_\_\_\_  
FINISHED \_\_\_\_\_

SCALE 1:100.				LENGTH <u>30.18m</u> NORTHING <u>4421N</u>		WINTYRE MINES (AUST.) PTY. LTD. EXPLORATION DEPARTMENT			
% CORE RECOVERY	CORE SPLIT	FEATURE		FRACTURING	BEDDING	GEOLOGY	MINERAL	AZIMUTH <u>270°</u> EASTING <u>7686E.</u>	
		INTERNAL	PPM Wt.					DIP AT COLLAR <u>60°</u> ELEVATION <u>526.3m</u>	HOLE NO <u>298</u> PAGE/OF <u>1/2</u>
LOCATION <u>KARA SOUTH. (2<sup>nd</sup>-4<sup>th</sup> FEB. 1981).</u> PROJECT <u>KARA.</u>								HOLE NO <u>298</u> PAGE/OF <u>1/2</u>	
NIL.						NIL.		MINERALISATION NO CORE	
1.5								GEOLOGY DRILLED WITH CASINGS.	
3.05		1.53	300.			CLAY. SLUDGE		CLAY	
4.53		1.48	820.					BROWN STICKY CLAY AND MAGNETITE	
6.10		1.57	430					SPORADIC SECTIONS OF COARSE QUARTZ AND MAGNETITE.	
7.62		1.52	370					PROBABLY CLAY AFTER SKARN.	
9.40		1.78	180					SLUDGE SAMPLES SUBMITTED FOR ASSAY.	
10.67		1.27	1100					10.67m	
100		1.12	2800			Tm 26		SKARN. CONDISED.	
12.00		0.80						SKARN. MAGNETITE SKARN	
12.50		0.61				Td(g)		MAGNETITE ESTIMATED 25-30%. FRACTURED-RUBBLY, DECREASING WITH DEPTH. LIMONITE + HEMATITE ZONES.	
13.41		0.42						GOOD SCHEELITE (FINE + WELL DISSEM) 13.41 TO 13.41 + 14.40m.	
14.43		1.00				Tm 25		DIOPSIDE GARNET SKARN COARSE + GRANULAR. MAGNETITE <10% Y+F.	
15.63		1.00						MAGNETITE SKARN. BLENDS + BLOTCHES OF MAGNETITE. MAGNETITE ESTIM 20-35% HIGHLY FRACTURED. 15.63-15.63m. Y+F	
17.00		1.37				Td		DIOPSIDE SKARN. LITTLE EPIDOTE + MAGNETITE. (10-15%) IN COARSE BLENDS. VARIOUSLY FRACTURED. Y+F	
18.29		1.25						SCHEELITE 18.25-18.59m. Y+F	
19.50		0.89				Tm 30		MAGNETITE SKARN. (MAGNETITE 25-30%) LITTLE GARNET.	
20.73		0.54						SPORADIC SPECKS. SCHEELITE. 18.70-19.78m. Y+F	
21.95		1.22	260			Tp9		QUARTZ, EPIDOTE, GARNET, MAGNETITE SKARN. MAGNETITE 10%. COARSE VUGGY QUARTZ. FRACTURED. TRANSITIONAL ZONE. Y+F	
22.86		0.91	400					LIGHT TO MEDIUM GREY SLTSTONE/SANDSTONE HARD + FINE GRAINED LITTLE MAGNETITE + ALTERATION ON FRACTURES + JOINTS F	
23.77		0.91	60			S.			
24.67		0.92	200						

ANGLE READ  
ANGLE CORRECTED  
AZIMUTH  
DEPTH  
SURVEY  
CONTRACTOR  
CORE  
CASING  
LOGGED BY  
DATE  
STARTED

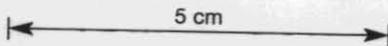
SCALE 1:100				LENGTH <u>30.18m</u> NORTHING <u>4421N.</u>		M'INTYRE MINES (AUST.) PTY. LTD. EXPLORATION DEPARTMENT	
% CORE RECOVERY	CORE SPLIT	FEATURE		FRACTURING	BEDDING	GEOLOGY	MINERAL
		INTERNAL	FROM TOP				
26.80							
62.7		0.71	45				
27.43		1.42	1100				
90.2					Gr		
30.18							
				MINERALISATION		GEOLOGY	
				27.43m.		27.43m.	
				F		GRANITE, FRESH, LIGHT GRAY TO PINK, FINE TO MEDIUM GRAINED. HOMOGENEOUS. ALTERED FELDSPAR, PRIMARILY ANOCLASE, LITTLE PYRIT.	
				30.18m.		30.18m.	

ANGLE READ  
ANGLE CORRECTED  
AZIMUTH  
DEPTH

SURVEY

CONTRACTOR \_\_\_\_\_  
CORE PAGE \_\_\_\_\_

LOGGED BY \_\_\_\_\_ DATE \_\_\_\_\_  
STARTED \_\_\_\_\_



SCALE 1:100

LENGTH 18.29m NORTHING 4464N  
 AZIMUTH 90° EASTING 7671E.  
 DIP AT COLLAR 90° ELEVATION 525.8  
 LOCATION KARA SOUTH. (15-18 FEB 1957)

MINTYRE MINES (AUST.) PTY. LTD.  
 EXPLORATION DEPARTMENT

HOLE No 299 PAGE / OF 1/1  
 PROJECT KARA.

% CORE RECOVERY	CORE SPLIT	FEATURE		FRACTURING	BEDDING	GEOLOGY	MINERAL	MINERALISATION	GEOLOGY	ANGLE READ	ANGLE CORRECTED	AZIMUTH	DEPTH
		0.3 INT.	APM NO.2										
N.C.		0.3	130			CC. NK.			NO CORE 0.0 - 7.62m. SLUDGE SAMPLES TAKEN FOR ASSAY. CLAY AFTER SKARN. (COLOUR VARIOUS).				
		2.75	190					7.62m					
		1.52	85										
		1.53	65										
		1.52	75										
7.62													
100													
9.14													
100													
10.97													
11.28													
100													
12.19													
96.3													
14.63													
100													
15.54													
100.													
18.29													

END OF HOLE - 18.29m.

ANGLE READ  
 ANGLE CORRECTED  
 AZIMUTH  
 DEPTH  
 SURVEY  
 CONTRACTOR  
 CORE  
 CASING  
 LOGGED BY  
 STARTED  
 FINISHED  
 DATE





SCALE 1:100				LENGTH <u>33.22m</u> NORTHING <u>4888N.</u>		M'INTYRE MINES (AUST.) PTY. LTD. EXPLORATION DEPARTMENT				
% CORE RECOVERY	CORE SPLIT	FEATURE		FRACTURING	BEDDING	GEOLOGY	MINERAL	AZIMUTH <u>270°</u> EASTING <u>7685E.</u>		
		INTERNAL	PPM					DIP AT COLLAR <u>70°</u> ELEVATION <u>520.5.</u>	HOLE NO <u>301</u>	RAGE/OF <u>1/2</u>
LOCATION <u>KARA SOUTH (15-19-FEB 1981)</u> PROJECT <u>KARA</u>								HOLE NO <u>301</u>		
N. REC.								MINERALISATION	GEOLOGY	ANGLE READ
3.05						No REC			NO RECOVERY - CASING.	ANGLE CORRECTED
5.4		1.52	150			Q.			SLUDGE SAMPLES CLAY AFTER SKARN.	AZIMUTH
6.10		1.53	280							DEPTH
7.14		0.91	70			Tdgn			SKARN.	
7.01		2.13	20						QUARTZ DIOPSIDE MAGNETITE SKARN.	
25.3		1.22	120						PARTIALLY OXIDISED + FRESH HORIZONS.	
7.92		2.14	180			Tm 20			LITTLE HEMATITE ALTERATION.	
7.8		0.91	60						MAGNETITE IN BLENDS + BLOTCHES	
9.14		1.83	360						NO SKARN HORIZON	
9.18		1.26	680			Qe.			9.14m - 9.35m.	
10.26		2.40	240			Tm			MAGNETITE SKARN.	
85.0		2.30	230.						20% MAGNETITE.	
12.50		1.72	240			Tdgn			LITTLE HEMATITE.	
100		1.46	230.						FRACTURED.	
13.41		1.46	230.						QUARTZ, DIOPSIDE EPIDOTE	
95.6		1.72	240			Tm 25			MAGNETITE SKARN	
15.24		1.72	240						MIXTURE.	
100		1.72	240						MAGNETITE SKARN.	
16.50		1.72	240						MAGNETITE 25%.	
84.4		1.72	240						SLIGHTLY OXIDISED	
18.29		1.72	240						EPIDOTISED QUARTZITE	
100		1.72	240						LIGHT BROWN. MAGNETITE IMPREGS.	
19.90		1.72	240						LIQUANTIC-IRAG SKARN.	
98.5		1.72	240						WEATHERED + BUBBLY.	
21.64		1.72	240						QUANTZ EPIDOTE DIOPSIDE SKARN.	
88.7		1.72	240						MAGNETITE IMPREGNATED	
24.38		1.72	240						19.30 - 19.80m.	
100.		1.72	240						COARSE BARNET DIOPSIDE SKARN.	

SURVEY  
 CONTRACTOR \_\_\_\_\_  
 CORE \_\_\_\_\_  
 CASING \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 STARTED \_\_\_\_\_  
 FINISHED \_\_\_\_\_

NIL  
 OR  
 VERY  
 OCCASIONAL  
 SMALL  
 SPECKS SCH.

OCCASIONAL  
 SPECKS  
 SENSIBILITY.

Y-F

F



APPENDIX BKARA SOUTHDIAMOND DRILL Nos. 295 - 301 - ASSAY RESULTS

<u>HOLE NO.</u>	<u>METRE INTERVAL</u>	<u>TYPE SAMPLE</u>	<u>ASSAYED</u>
295	0.00 - 4.27	Core - NQ	WO <sub>3</sub> , Sn
296	11.89 -16.90	Core - NQ	" "
	11.89 -16.90	Sludge	" "
297	0.00 - 4.88	Core - NQ	" "
	4.88 -17.65	Sludge	" "
	23.93 -31.05	Core NQ	" "
298	0.00 -13.41	Sludge	" "
	10.67 -27.43	Core - NQ	" "
299	0.00 -9.14	Sludge	" "
	9.45 -16.04	Core - NQ	" "
300	0.00 -12.19	Sludge	" "
301	3.05 - 6.10	Sludge	" "
	6.10 -33.22	Core NQ	" "



PREP

1/2 CORE.

LIBRARY AMDEL.

D.D.H.

953028

(REC) RECOVERY, CONSIDER 99% EXCEPT AS NOTED

(WX) WEATHERING, CONSIDER FRESH ROCK EXCEPT AS NOTED. WX INDICATES CLAYEY, LIMONITIC MATERIAL

296  
KARA SOUTH.

SECTION:				ASSAY				AVE:			AVE:				
SAMP NO.	REC WX	INTERVAL	LGTH	PPM WO <sub>3</sub>	PPM S <sub>2</sub>	INVL	LGTH 3M-%	WT AR	AV.	INVL	LGTH 3M-%	WT AR	AV.		
CORE.	296/11	11.89-13.41	1.52	660	2600										
"	296/12	13.41-14.63	1.22	2000.	780										
"	296/13	14.63-15.64	0.91.	330.	350										
"	296/14	15.64-16.50	0.86.	60.	320										
"	296/15	16.50-16.90	0.40	240.	1160										
SLUDGE	296/19	11.89-13.41	1.52	420	220										
"	296/20	13.41-14.63	1.22	430	260.										
"	296/16	14.63-15.54	0.91	2200	700										
"	296/17	15.54-16.50	0.96.	280	460										
"	296/18	16.50-16.90	0.40	520.	430										
INVL	CORE LGTH	WIDTH	AVE	INVL	CORE LGTH	WIDTH	AVE	INVL	CORE LGTH	WIDTH	AVE	INVL	CORE LGTH	WIDTH	AVE



(REC) NECESSARY, CONSIDER 295% EXCEPT AS NOTED

(WX) WEATHERING, CONSIDER FRESH ROCA EXCEPT AS NOTED. WX INDICATES CLAYEY, SINDIANTIC MATERIAL

SECTION :				ASSAY				AVE:				AVE:			
SAMP NO.	REC WX	INTERVAL	LGTH	PPM WGS	PPM SA.			INVL	LGTH SM-%	WT AR	AV.	INVL	LGTH SM-%	WT AR	AV.
298/1	SLUDGE	0.00-1.52	1.52	860.	180										
298/2	SLUDGE	1.52-3.05	1.53	300.	150										
298/3	SLUDGE	3.05-4.53	1.48	320.	110										
298/4	SLUDGE	4.53-6.10	1.57	430.	160										
298/5	SLUDGE	6.10-7.62	1.52	370.	480										
298/6	SLUDGE	7.62-9.40	1.78	180.	620										
298/7	SLUDGE	9.40-10.67	1.27	1100	130			9.40-12.00	2.60m	0.20%					
298/8	CORE	10.67-12.00	1.33	2800	1700										
298/9	"	12.00-12.80	0.80	1.01%	2860			12.00-15.63	3.63m	0.74%					
298/10	"	12.80-13.41	0.61	0.56%	2860										
298/11	"	13.41-14.63	1.22	0.42%	2300										
298/12	"	14.63-15.63	1.00	1.03%	2750										
298/13	"	15.63-17.00	1.37	0.28%	1900			15.63-20.73	5.10m	0.12%					
298/14	"	17.00-18.29	1.29	0.09%	1600										
298/15	"	18.29-19.80	1.51	0.40%	1800										
298/16	"	19.80-20.73	0.93	1100	350										
298/17	"	20.73-21.95	1.22	260	60										
298/18	"	21.95-22.86	0.91	400.	860										
298/19	"	22.86-23.77	0.91	60	22										
298/20	"	23.77-24.69	0.92	200	34										
298/21	"	24.69-25.30	0.61	110	26										
298/22	"	25.30-26.01	0.71	45	22										
298/23	"	26.01-27.43	1.42	1100	160										
298/24	SLUDGE	10.67-12.19		6000	2000										
298/25	SLUDGE	12.19-13.41		1.76%	2600										
INVL	CORE LGTH	WIDTH	AVE	INVL	CORE LGTH	WIDTH	AVE	INVL	CORE LGTH	WIDTH	AVE	INVL	CORE LGTH	WIDTH	AVE
9.40-20.73	11.33		0.85% WGS					12.00-19.80	7.80		0.45% WGS.				
10.67	19.80	9.13	0.45% WGS												







APPENDIX CLOCATION - HAMPSHIRE SILVER MINE1. Grid Soil Samples (along ground magnetic anomaly trend).

Assayed - Amdel. Project No. 6189/81. Date June 23rd, 1981.

<u>SAMPLE NO.</u>	<u>ppm F</u>	<u>ppm Zn</u>	<u>ppm Sn</u>	<u>ppm WO<sub>3</sub></u>
SMS Road	200		38	15
SMS 74	400		60	10
" 76	800		34	15
" 78	800		22	10
" 80	400		30	x
" 82	400		26	x
" 84	200		22	10
" 86	200		22	x
" 88	200		16	10
" 102	600	85	75	10
" 104	400	270	12	25
" 106	600	75	16	x
" 108	400	30	24	x
" 110	200	22	20	10
" 112	200	20	18	x
" 128	600	55	18	10
" 130	600	120	18	20
" 132	200	110	16	20
" 134	600	75	18	10
" 326	600	70	75	15
" 328	600	120	130	10
" 346	600	55	16	10
" 348	600	95	14	x
" 350	600	65	222	10
" 352	800	44	14	x
" 354	600	90	18	10
" 356	400	95	38	10
" 358	400	65	180	15
" 360	400	50	450	15
" 362	200	48	75	x
" 364	600	55	680	10
" 366	600	50	120	10
" 378	200	65	20	10

<u>SAMPLE NO.</u>	<u>ppm F</u>	<u>ppm Zn</u>	<u>ppm Sn</u>	<u>ppm W03</u>
SMS 380	200	220	18	20
" 382	200	50	22	10
" 384	400	85	44	x
" 386	400	60	540	15
" 388	600	85	760	x
" 390	400	70	880	x
" 392	400	60	200	10
" 406	400	40	22	10
" 408	400	48	16	10
" 410	600	48	14	x
" 412	600	50	18	x
" 414	400	40	24	x
" 416	400	65	24	15
" 418	200	70	22	15

## 2. Grab Rock Samples

Assayed - Amdel.

Project No. 5827/81

June 2nd, 1981

Project No. 6189/81

June 23rd, 1981.

<u>SAMPLE NO.</u>	<u>%F</u>	<u>Cu</u>	<u>Pb</u>	<u>PPM</u>				
				<u>Zn</u>	<u>Bi</u>	<u>Ag</u>	<u>Mo</u>	<u>Au</u>
SM 1	2.65	32	180	1300	10	L 1	6	L 0.05
SM 2	0.35	18	30	1500	10	L 1	4	L 0.05
SM 3	8.90	16	10	130	L10	L 1	1	L 0.05
SM 4	0.15	90	2800	3100	10	430	55	L 0.05
SM 5	2.45	16	530	1300	L10	2	10	L 0.05
SM 11	0.66			18				
SM 12	0.96			20				
SM 13	1.00			20				

APPENDIX DLOCATION - KARA NO. 2 SKARNS1. Kara No. 2 - Main Skarns

Assayed Amdel. Project No. 6045/81 Date June 12th, 1981.

<u>SAMPLE NO.</u>	<u>ppm WO<sub>3</sub></u>	<u>SAMPLE NO.</u>	<u>ppm WO<sub>3</sub></u>
2/1	50	2/22	35
2/2	25	2/23	30
2/3	x	2/24	65
2/4	40	2/25	75
2/5	80	2/26	60
2/6	35	2/27	110
2/7	15	2/28	100
2/8	120	2/29	65
2/9	45	2/30	25
2/10	15	2/31	110
2/11	90	2/32	55
2/12	50	2/33	85
2/13	75	2/34	80
2/14	100	2/35	40
2/15	30	2/36	140
2/16	25	2/37	330
2/17	60	2/38	120
2/18	X	2/39	30
2/19	20	2/40	55
2/20	50	2/41	35
2/21	35		

2. Kara No. 2 East Skarn Assayed Amdel. Project No. 6074/81 Date 16th June, 1981

<u>SAMPLE NO.</u>	<u>ppm WO<sub>3</sub></u>	<u>SAMPLE NO.</u>	<u>ppm WO<sub>3</sub></u>
2E/1	50	2E/8	15
2E/2	75	2E/9	140
2E/3	15	2E/10	15
2E/4	60	2E/11	x
2E/5	80	2E/12	45
2E/6	45	2E/13	55
2E/7	15	2E/14	x

3. Kara No. 2. - South Skarns

Assayed Amdel Project No. 6074/81 Date June 16th, 1981

<u>SAMPLE NO.</u>	<u>ppm WO<sub>3</sub></u>	<u>SAMPLE NO.</u>	<u>ppm WO<sub>3</sub></u>
2S/1	80	2S/8	10
2S/2	40	2S/9	x
2S/3	x	2S/10	15
2S/4	110	2S/11	25
2S/5	20	2S/12	x
2S/6	55	2S/13	15
2S/7	10	2S/14	15

APPENDIX ELOCATION L. 13 - GRID SOIL SAMPLE ASSAYS

Assayed - Amdel. Report No. 5750/81 Date May 28th, 1981

<u>SAMPLE NO.</u>	<u>ppm WO<sub>3</sub></u>	<u>SAMPLE NO.</u>	<u>ppm WO<sub>3</sub></u>
S26	L.10	S43	230
S27	25	S44	320
S28	110	S45	75
S29	270	S46	25
S30	460	S47	10
S31	900	S48	25
S32	410	S49	200
S33	230	S50	160
S34	410	S51	10
S35	410	S52	35
S36	500	S53	180
S37	55	S54	210
S38	25	S55	170
S39	20	S56	310
S40	15	S57	35
S41	280	S58	50
S42	260		

APPENDIX FLOCATION L. 10 - GRID SOIL SAMPLE ASSAYS

Assayed - Amdel. Report No. 5826/81 Date 1-3rd June, 1981.

<u>SAMPLE NO.</u>	<u>ppm W<sub>03</sub></u>	<u>SAMPLE NO.</u>	<u>ppm W<sub>03</sub></u>
L10/1	30	L10/19	40
L10/2	45	L10/20	15
L10/3	65	L10/21	30
L10/4	25	L10/22	20
L10/5	30	L10/23	30
L10/6	25	L10/24	25
L10/7	15	L10/25	40
L10/8	30	L10/26	75
L10/9	25	L10/27	60
L10/10	15	L10/28	10
L10/11	20	L10/29	30
L10/12	20	L10/30	20
L10/13	40	L10/31	35
L10/14	15	L10/32	10
L10/15	20	L10/33	25
L10/16	40	L10/34	15
L10/17	40	L10/35	85
L10/18	20		

APPENDIX GMISCELLANEOUS - PAN CONCENTRATE SAMPLES E.L. 17/68

Assayed - Amdel. Report Nos. 5827/81 &amp; 6274/81

1. Ringwood Granite

<u>SAMPLE NO.</u>	<u>Assay ppm WO<sub>3</sub></u>
GL 100	210
GL101	Nil

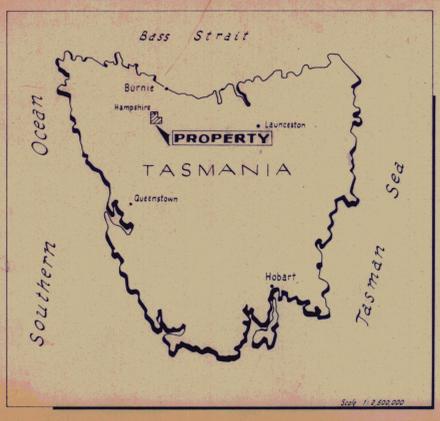
2. Location L. 11

<u>SAMPLE NO.</u>	<u>ppm WO<sub>3</sub></u>	<u>ppm Sn</u>
L/11/1	60	230
L/11/2	170	280
L/11/3	210	900
L/11/4	140	130
L/11/5	760	1150
L/11/6	330	75
L/11/7	260	75
L/11/8	85	22
L/11/9	260	32
L/11/10	270	60
L/11/11	290	38

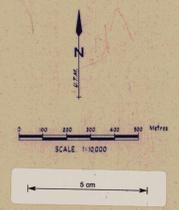
APPENDIX HLOCATION - RINGWOOD GRANITE GOSSAN (Western EL 17/68)

Assay - Amdel. Report No. 5826/27/81 Date 3rd June, 1981

SAMPLE NO.	ASSAY (ppm)								
	Cu	Pb	Zn	Bi	Ag	Mo	%F	Au	
GP1	10	20	30	L10	L1	2	0.05	L0.05	
GP2	40	5	8	10	L1	2	0.05	L0.05	
GP3	38	10	8	10	L1	2	0.05	L0.05	
GP4	65	5	8	10	L1	3	0.05	L0.05	
GP5	36	5	6	10	L1	4	L0.05	L0.05	
GP6	32	20	6	10	L1	3	L0.05	L0.05	

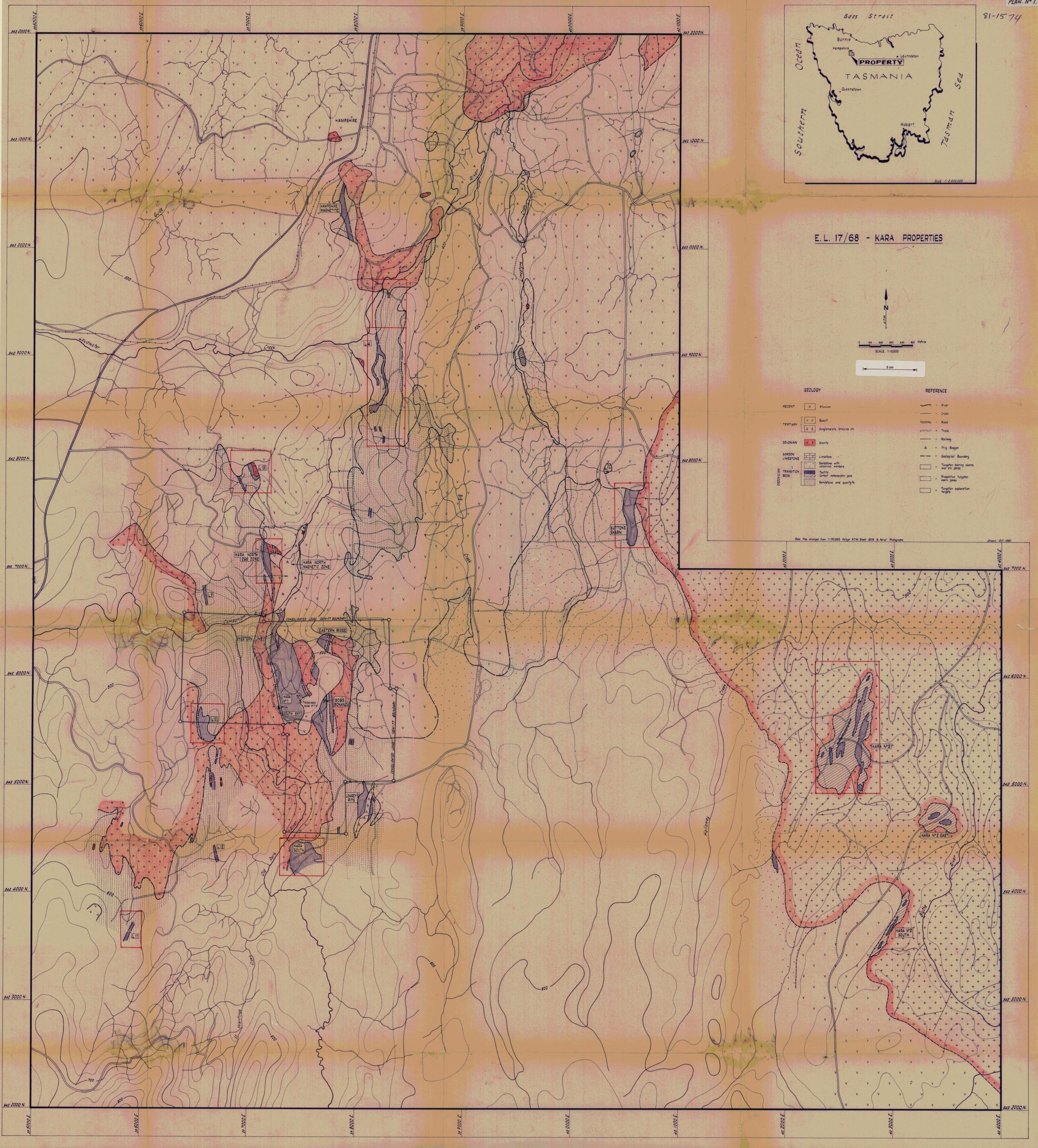


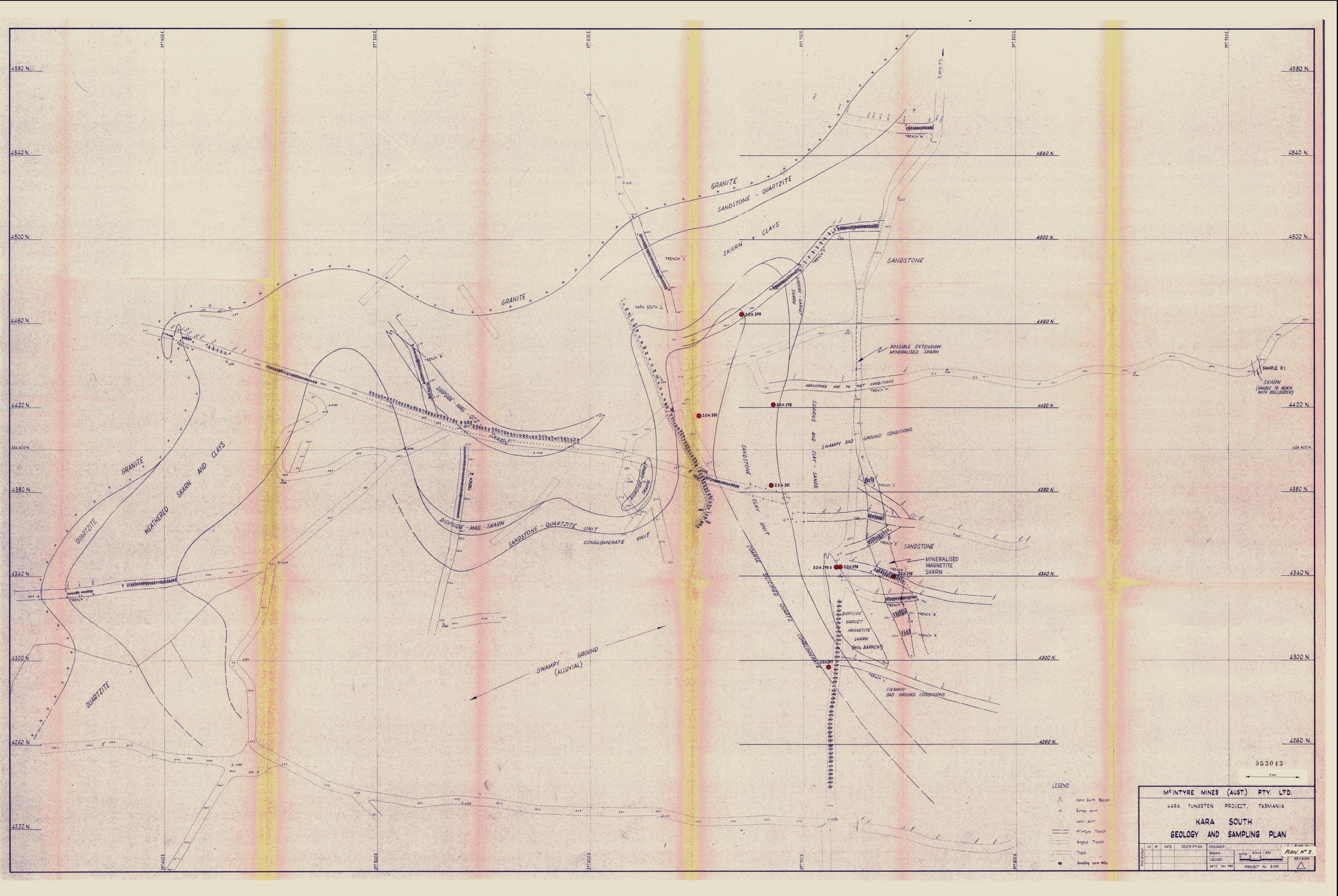
E. L. 17/68 - KARA PROPERTIES



GEOLOGY		REFERENCE
RECENT	A Alluvium	— River
	B Beach	— Creek
TERTIARY	C Conglomerate, breccias etc.	— Road
		— Track
DEVONIAN	D Granite	— Railway
		— Trig Station
BOONAN Limestone	E Limestone	— Geological Boundary
	F Sandstone with carbonaceous members	— Tugstet bearing stone and ore zone
TRANSITION BEDS	G Turf	— Prospected Tugstet stone zone
	H Contact metamorphic zone	— Tugstet exploration target
COGNACAN	I Sandstone and quartzite	

Base Map enlarged from 1:100,000 Major N.T.M. Sheet 818 & Aerial Photographs. Drawn 1971/80





953013

50m

- LEGEND
- ▲ Kara South Beacon
  - △ Survey point
  - Level point
  - McIntyre Trench
  - Angeco Trench
  - Track
  - Sampling p.p.m. WGS

M<sup>Q</sup>INTYRE MINES (AUST.) PTY. LTD.

KARA TUNGSTEN PROJECT, TASMANIA

**KARA SOUTH**  
GEOLOGY AND SAMPLING PLAN

NO.	BY	DATE	DESCRIPTION	DESIGNED	DRAWN	CHECKED	DATE	SCALE	PROJECT NO.	PLAN NO.
								1:500	21081	2

