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McINTYRE MINES (AUSTRALIA) PTY. LTD.

EXPLORATION LICENCE 17/68

C. H. Whitehead,

28th October, 1980

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MCINTYRE MINES (AUSTRALIA) PTY. LTD.

SUMMARY OF COMPLETED WORK PROGRAMME FOR EXPLORATION LICENCE 17/68

For the Period

MAY 4th, 1980 to NOVEMBER 3rd, 1980

AND

PROPOSED WORK PROGRAMME FOR EXPLORATION LICENCE 17/68

For the Period

NOVEMBER 4th, 1980 to MAY 3RD, 1981.

C.H. Whitehead,
28th October, 1980.

1. SUMMARY OF COMPLETED WORK PROGRAMME - E.L.17/68

PERIOD MAY 4TH - NOVEMBER 3RD 1980.

a) INTRODUCTION

Exploration within E.L. 17/68 during the 6 months ending November 3rd 1980 was performed by McIntyre Mines (Australia) Pty. Ltd., as per agreement dated November 3rd 1977, with Tasminex N.L.

Activities were essentially two fold in type.

- Exploration was undertaken over prospective ground and known tungsten occurrences both within Consolidated Mineral Lease 105/77 and the surrounding E.L. 17/68, special emphasis being given to the locations Kara No. 2, Kara South, the Eastern Ridge and Bobs Bonanza (see Plan No. 1). Investigations consisted of geologic mapping, ground magnetic surveys, pan concentrate stream sediment sampling, trench sampling and night U.V. lamping. No subsurface operations (drilling) were completed during the period in question.

- Detailed geologic, engineering and economic evaluation studies of the known drilled tungsten ore zones at Kara were carried out by the engineering consultants, Golder Associates, contracted by McIntyre Mines (Australia) Pty. Ltd.

Overall, the work program and estimated expenditures ($11,400) for the period in question were considerably modified and increased to that originally proposed. As indicated in Attachment "A", McIntyre Mines incurred a total expenditure of $130,245 for the six month period. Of this total, $39,899 was expended within E.L. 17/68 and $90,346 within CL 105M/77.

b) PRINCIPAL EXPLORATION RESULTS

Please refer to the accompanying Plan No. 1 for the location of exploration areas.

- KARA NO. 2

In the extreme east of E.L. 17/68 are located three magnetite skarn zones - Kara No. 2, Kara No. 2 East and Kara No. 2 South. These occur as roof pendents within the western flanks of the main Devonian Housetop granite intrusive, and have over the years, been investigated by the Mines Department and Tasminex N.L. for their magnetite Fe potential.

During the present period, McIntyre Mines completed surface examinations of these three skarn zones to evaluate their possible tungsten potential. This work consisted of reconnaissance geologic mapping, reconnaissance ground magnetic surveys, surface rock sampling, pan concentrate sampling of the areas drainage, and U.V. lamping of both surface exposures and core from Mines Department drilling. An attempt has been made to summarise the results and assay values of this work on Appen. Plan No. 1.

Overall results were somewhat disappointing. No anomalous tungsten values were found in any of the skarn from either surface exposures or drill core. Lamping showed slight tungsten mineralization along the extreme West margin of the Kara No. 2 magnetite occurrence, but it was low grade and of such localised extent to be of no further interest. During the course of work, two additional but small magnetite rich skarns were located southwest of the Kara No. 2 deposit - neither were tungsten bearing. Pan concentrate sampling located three tungsten anomalous geochemical zones (see Appen. Plan No. 1), none of extremely high intensity (up to 2000ppm WO_3), but nevertheless ones which carried scheelite (rather than wolframite). Follow up detailed examinations of these geochemical anomalies are being undertaken, otherwise no further exploration is planned for the Kara No.2 area.

- EASTERN RIDGE

A review of past exploration data and additional field work (geologic mapping, grid ground magnetic surveys and surface sampling) was undertaken at the Eastern Ridge tungsteniferous skarns some 750metres NE of the Kara No.1 orebody.

A new interpretative geologic map (App. Plan No. 2) and a contoured ground magnetic map (Appen. Plan No. 3) were completed during the course of the study, and are included with the appended portion of this report.

The investigations showed that W mineralization at the Eastern Ridge is associated with two stratigraphically separate skarn horizons closely adjacent to Devonian granite. The skarns themselves show good width consistency, and although generally covered by Tertiary basalt, are shown by previous drilling to extend for 258 metres along strike.

Mineralization appears restricted to individual pods and lenses of ore confined to specific stratigraphical levels within the skarns. Unfortunately grades are variable and discontinuous along strike, are confined to narrow widths and are steeply dipping in attitude. In addition, mineralization and their enclosing skarns invariably show an extensive zone of weathering, and except for the south-central portion of the deposit, are deeply (0 to 70m) buried by Tertiary basalt. Any future development of the deposit would undoubtedly be of an underground nature. Drilling to date prohibits an accurate calculation of reserves, or a classifcation of reserves other than in an inferred - possible category.

However, mineralization is open ended in a northerly direction beneath basalt, and in the south sampling of recent surface exposures revealed encouraging widths and grades (13 metres of 0.84% WO_3) of mineralization in the Upper Skarn Zone. An estimation of its extensions to the south are again prohibited by masking basalt.

Appen. Plan No. 2 plus Appen. Tables 4 to 13 show the results of surface sampling of both skarn zones at this location. A total of 245 samples were assayed for WO_3 content.

Appen. Plan No. 3 shows the results of the ground magnetic surveys. Lines were approximately at 25 metre intervals, readings taken at 5 metre spacing. The two skarn zones can easily be outlined by ground magnetics where there is no or little (up to 15m) overlying Tertiary basalt, and this method is considered an excellent exploration tool in such areas of thick vegetation and no surface outcrop.

- AREA SURROUNDING "BOBS BONANZA" DEPOSIT

Surface sampling was completed where possible at this deposit - assay results are tabulated in Appended Table No. 15.

In an effort at tracing any extensions of this occurrence along strike to the north and south, a grid ground magnetic survey was completed (see Appen. Plans No. 4 and 5).

Geologically, the "Bobs Bonanza" deposit is the southerly continuation of the Eastern Ridge Skarns (450 metres to the north) but this intervening area is completly masked by variable depths of Tertiary basalt. Ground magnetics over this area were instructive in faintly outlining possible trends of magnetite skarn. One anomaly was trenched and proved skarn underlying basalt but on sampling (Appen. Table No. 14) was completly barren of W mineralization.

Immediately north of the mined "Bobs Bonanza" location a deep transgressive Tertiary valley cross cuts the Upper Skarn and would appear to have eroded any potential reserves of an open pit nature.

To the south, magnetics outline the trends of the two skarn zones and provide excellent targets for possible future subsurface drilling investigations.

- KARA SOUTH

Earlier in 1980, the clearing of old forest tracks in this area revealed a skarn zone somewhat peripheral to the main Kara South deposit. This zone, over 8.6 metres, was found to assay 0.5% WO_3.

Exploration has just been initiated to investigate the potential of this zone and examine both its local and regional geologic setting.

Work includes surveying, base map preparation and geochemical plus ground magnetic surveys.

c) ENGINEERING - ECONOMIC EVALUATION STUDIES, KARA

Golder Associates were commissioned by McIntyre Mines to undertake a review of the geological, mining and processing aspects of the Kara property, and their studies were performed between June and September 1980.

The evaluation, based on existing data was to include the following specific points:-

- A more thorough evaluation of the ore reserves available within the four main areas of known mineralisation (ie. Kara No. 1, Western Limb, Kara North and the Eastern Ridge).

- Consideration of the most appropriate method or methods of mining the known ore reserves.

- A revised evaluation of the economic viability of the property based on the current demonstrated reserves, and consideration of the implication of the potential reserves of the various ore types.

- Consideration of various process flow sheets for treating the ore.

The studies were completed on September 30th, 1980, and a draft final report is now under review by McIntyre Mines.

Independent of the above studies, McIntyre Mines are undertaking metallurgical test work on two bulk samples (150Kg.) of oxidised W ore from the Kara No. 1 orezone. These samples are of weathered material (head grades 0.9% WO_3 and 1.3% WO_3) where only a small percentage of the total tungsten content is due to scheelite. The samples are being subjected to liberation studies, magnetic seperation and gravity/tabling concentration tests. Results should be received by late November.

d) GENERAL

- Progress reports of exploration work and statements of expenditure related to E.L. 17/68 have been submitted monthly to the Mines Department.

- McIntyre Mines personnel employed during the six months in question have included:- one geologist full time, one field assistant full time; one field assistant part time; one field technician part time; one draftsman part time and one typist part time.

- "Attachment A" is a Statement of Expenditure for the period May 4th - November 3rd 1980. Itemised separately are expenditures incurred on exploration within both E.L. 17/68 and CL 105M/77.

- Attachment "B" itemise a list of maps and assay result tables applicable to exploration work in E.L. 17/68 during the past six months. These are enclosed in an appended folder.

2. PROPOSED WORK PROGRAMME - E.L. 17/68

PERIOD - NOVEMBER 4TH 1980 TO MAY 3RD 1981.

Outlined below is a proposed programme of future exploration within E.L. 17/68 for the next six months from November 4th 1980. This work is exclusive of exploration activities within the area covered by Consolidated Lease 105M/77.

Proposed exploration would be:-

a) Concentrated in and around four known but non evaluated tungsten prospects within E.L. 17/68. These prospects are (Plan No. 1).

- Kara South
- Lohreys Pits.
- Location L. 13
- Location L. 4

All are known skarn zones with good potential for associated tungsten mineralization. Detailed examinations are justified to evaluate their potential.

Although dependent upon results, it is envisaged the investigations of these prospects would be of a surface nature, consisting of a combination of geologic mapping, ground magnetics, trenching, rock and geochemical sampling, possibily supplemented by pan concentrate sampling. Attachment "C" tabulates intended methods of investigation for each individual prospect to be examined.

b) It is also proposed to complete the regional mapping and geologic interpretation of the area covered by E.L. 17/68 (75sq. kms.). As shown on Plan No. 1, a portion of this work has been completed during the past three years.

Field personnel required to undertake the above programme would be one geologist, one field technician and one field assistant.

Expenditures for this six months work are estimated to total $43,420 Breakdown as follows:-

Geology	$14,260
Bulldozing	9,000
Ground Magnetometry	5,480
Assays	7,600
Transportation	3,480
Office	3,600
Total	$43,420

Cliff H. Whitehead.
McIntyre Mines (Australia) Pty. Ltd.
28th October, 1980.

ATTACHMENT "A"

STATEMENT OF EXPENDITURES - EXPLORATION LICENCE 17/68

PERIOD - MAY 4TH TO NOVEMBER 3RD 1980.

McIntyre Mines (Australia) Pty. Ltd., as Manager of a Joint Venture with Tasminex N.L. incurred the following exploration expenditures on E.L. 17/68 and within Consolidated Lease 105M/77 during the above six month period.

	E.L.17/68	CL105M/77	TOTAL
General office, rent, services	9,061	12,903	21,964
General field work	260	630	890
Camp supplies, hotel, meals	814	1,084	1,898
Geology	18,890	17,374	36,264
Bulldozing	-	418	418
Ground magnetometer	71	641	712
Geochemistry	265	117	382
Assays-metallurgical costs	4,461	533	4,994
Transportation	5,183	6,320	11,503
Legal fees	351	5,377	5,728
Insurance	543	-	543
Feasibility study	-	44,949	44,949
Totals	39,899	90,346	130,245

The expenditures incurred on EL 17/68 have been detailed in monthly reports submitted to the Mines Department.

Cliff H. Whitehead,

McIntyre Mines (Australia) Pty. Ltd.

ATTACHMENT "B"

LIST OF MAPS AND ASSAY RESULT TABLES.

Appended in separate folder and to accompany the "summary of completed work programme for E.L. 17/68 for the period, May 4th to November 3rd 1980".

ASSAY RESULTS

Tables No. 1 - 3	-	Assay results, surface sampling - Kara No. 1
Tables No. 4 - 13	-	Assay results, surface sampling - Eastern Ridge
Tables No. 14-15	-	Assay results, surface sampling - Bobs Bonanza
Table No. 16	-	Assay results, surface sampling - Kara North

PLANS IN POCKET

Plan | Kara Properties EL 17/68 · Scale 1:19,000

Appen. Plan No. 1	-	Kara No. 2	Scale 1:7200
" " No. 2	-	Eastern Ridge - Geology	Scale 1: 500
" " No. 3	-	Eastern Ridge - Ground Magnetics	Scale 1: 500
" " No. 4	-	Bobs Bonanza - Ground Magnetics	Scale 1: 500
" " No. 5	-	S Of Bobs Bonanza-Ground Magnetics	" 1: 500

Sample Sheet

ATTACHMENT "C"

BREAKDOWN OF PROPOSED WORK PER PROSPECT - E.L. 17/68

PERIOD NOVEMBER 4TH 1980 - MAY 3RD 1981.

A - KARA SOUTH

i) Survey, tie-in with Kara No. 1, basemap preparation (scale 1:500)
ii) Grid ground magnetic survey (line spacing 20m, readings at 5m intervals)
iii) Surface geologic mapping.
iv) Grid geochemical soil sampling across outlined skarns.
v) Trenching across skarns.
vi) Sampling intersected skarns in trenches (1 metre intervals, assayed for WO_3 , Sn, Mo).
vii) Night U.V. lamping.
viii) Evaluation of data.

B - LOHREYS PITS

i) Basemap preparation (1:500)
ii) Geologic mapping
iii) Reconnaissance (geologic, ground magnetic, geochemical) surveys around prospect and area to Kara South.
iv) Additional work dependent upon above results.

C - L.13

i) Detailed grid ground magnetics over main known magnetic anomely
ii) Trenching
iii) Systematic trench sampling
iv) Geologic mapping and connect with kara North geology.

D - L.4

i) Grid ground magnetic survey
ii) Geologic reconnaissance
iii) Grid geochemical soil sampling over skarn or ground magnetic anomalies
iv) Further work dependent upon results of above stages.

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APPENDIX

EXPLORATION LICENCE 17/68

May 4th, 1980 To November 3rd, 1980

To accompany the "Summary of Completed Work Programme for E.L. 17/68
For The Period May 4th to November 3rd, 1980.

APPENDIX NO. 1.

ASSAY RESULTS

Tables No. 1 - 3	-	Assay results, surface sampling - Kara No. 1
Tables No. 4 -13	-	Assay results, surface sampling - Eastern Ridge
Tables No.14 -15	-	Assay results, surface sampling - Bobs Bonanza
Table No. 16	-	Assay results, surface sampling - Kara North

PLANS IN POCKET

Plan 1	-	Kara Properities EL 17/68	Scale 1:10000
Appen. Plan No. 1	-	Kara No. 2 - geotherm	Scale 1:7200
" " No. 2	-	Eastern Ridge - Geology	" 1: 500
" " No. 3	-	Eastern Ridge - Ground Magnetics	" 1: 500
" " No. 4	-	Bobs Bonanza - Ground Magnetics	" 1: 500
" " No. 5	-	S. of Bobs Bonanza - Ground Magnetics	" 1: 500
[redacted]	-	[redacted]	

Sample Sheet

APPENDIX NO. 1

SURFACE SAMPLES ASSAYED - KARA PROPERTIES (MAY - OCTOBER 1980)

TABLE NO.	OREZONE	LOCATION	NO. OF SAMPLES
1	Kara No. 1	DDH135 Backhoe Trench	25
2	Kara No. 1	Pit (Backhoe) Trench	24
3	Kara No. 1	Dam Trench - Main Pit	32
4	Eastern Ridge	Up & Lower Skarn Zones TrEr3	23
5	Eastern Ridge	Up & Lower Skarn Zones TrEr2	7
6	Eastern Ridge	Up & Lower Skarn Zones Ripper Tr.	32
7	Eastern Ridge	Lower Skarn Zone-Creek Trench	29
8	Eastern Ridge	Up. Skarn Zone Backhoe Tr. Level 495	48
9	Eastern Ridge	Up. Skarn Zone 475 Level Open Cut	43
10	Eastern Ridge	Up. Skarn Zone 485 Level Open Cut	15
11	Eastern Ridge	Up. Skarn Zone 495 Level Backhoe Trench	19
12	Eastern Ridge	Up. Skarn Zone "Glory-Hole" Pit	23
13	Eastern Ridge	Up. Skarn Zone-Ripper Trench Upper Level	6
14	Eastern Ridge/Bobs Bonanza	- Up. Skarn Zone-Auger Trench	29
15	Bobs Bonanza	- Open Cut Faces	48
16	Kara North	- Northern Trench	56
		Total No. of Samples	459

TABLE NO. 1

SURFACE TRENCH SAMPLES - ASSAY VALUES

KARA NO. 1

DDH 135 - BACKHOE TRENCH

Assayed - Amdel Report No. AC 1526/81 No. Of Samples - 25.

SAMPLE NO.	ASSAY WO_3 (PPM OR %)
1000	4300
1001	1.53%
1002	2.42%
1003	1.82%
1004	1.17%
1005	8600
1006	5200
1007	9600
1008	4700
1009	1.05%
1010	6100
1011	4300
1012	1.04%
1013	1.27%
1014	1.39%
1015	1.20%
1016	1.07%
1017	7100
1018	1.03%
1019	2.26%
1020	8300
1021	1300
1022	1650
1023	800
1024	5500

Samples Taken at 1 metre intervals.

TABLE NO. 2

TRENCH SAMPLES - ASSAY VALUES

KARA NO. 1

PIT (BACKHOE) TRENCH - MAIN PIT

Assayed- Amdel Report AC 102/81 - 103/81 No. of Samples 24

SAMPLE NO.	ASSAY WO_3 (PPM - %)
332	3700
333	4500
334	5300
335	1.00%
336	2800
337	1.03%
338	4350
339	5600
340	2.12%
341	2.78%
342	1200
343	4450
344	2.94%
345	9300
346	2.82%
347	1.08%
348	1.84%
349	4350
350	2.16%
351	1.35%
352	1.50%
353	3.72%
354	1.98%
355	2.60%

Samples taken at 1 metre intervals.

TABLE NO. 3

TRENCH SAMPLES - ASSAY VALUES

KARA NO. 1

DAM TRENCH - MAIN PIT

Assayed - Amdel Report No. AC102/81 No. Of Samples - 32

SAMPLE NO.	ASSAY WO_3 (PPM - %)
300	3700
301	4300
302	2350
303	1950
304	2950
305	1.01%
306	1450
307	1450
308	4550
309	12.7%
310	3.28%
311	1.29%
312	5800
313	5700
314	5000
315	3200
316	1.51%
317	4550
318	1250
319	3500
320	1650
321	550
322	1.88%
323	3.18%
324	2100
325	650
326	1.41%
327	800
328	800
329	1050
330	340
331	180

Samples Taken At 1 Metre Intervals.

TABLE NO. 4

TRENCH SAMPLES - ASSAY VALUES

LOCATION - EASTERN RIDGE

UPPER & LOWER SKARN ZONES - TRENCH ER 3

Assayed - Amdel Report Ac 346/81 No. of Samples - 23

SAMPLE NO.	ASSAY - WO_3 (PPM - %)
507	400
508	1800
509	920
510	360
511	200
512	55
513	40
514	580
515	410
516	600
517	1000
518	2500
519	1.28%
520	2850
521	1400
522	520
523	270
524	620
525	370
526	700
527	130
528	600
529	160

Samples Taken At 3 Metre Intervals

TABLE NO. 5

TRENCH SAMPLES - ASSAY VALUES

LOCATION - EASTERN RIDGE

UPPER & LOWER SKARN ZONES - TRENCH ER 2

Assayed - Amdel Report Ac 346/81 No. Of Samples - 7

SAMPLE NO.	ASSAY - WO_3 (PPM - %)
500	1550
501	1050
502	85
503	1.15%
504	3200
505	85
506	95

Samples Taken at 3 Metre Intervals.

TABLE NO. 6

TRENCH SAMPLES - ASSAY VALUES

LOCATION - EASTERN RIDGE

UPPER & LOWER SKARN ZONES - RIPPER TRENCH

Assay - Amdel. Report Ac 1525/81 No. Of Samples 32

SAMPLE NO.	ASSAY WO_3 (PPM - %)
800	80
801	15
802	15
803	60
804	20
805	40
806	25
807	25
808	280
809	560
810	1650
811	75
812	40
813	10
814	X
815	15
816	880
817	1950
818	5300
819	1.09%
820	9800
821	2750
822	660
823	1550
824	5500
825	1250
826	1450
827	3000
828	4750
829	4050
830	2300
831	1850

Samples Taken At 1 Metre Intervals.

TABLE NO. 7

TRENCH SAMPLES - ASSAY VALUES

LOCATION - EASTERN RIDGE

LOWER SKARN ZONE - CREEK TRACK

Assay - Amdel Report Ac 1527/81 Ac 103/81 No. Of Samples 29

SAMPLE NO.	ASSAY WO_3 (PPM - %)
200	760
201	1200
202	780
203	5900
204	5100
205	2650
206	1550
207	3450
208	7800
900	150
901	460
902	90
903	150
904	65
905	150
906	110
907	310
908	100
909	180
910	20
911	270
912	1000
913	1200
914	8400
915	1150
916	1550
917	1250
918	1100
919	2300

Samples Taken At 1 Metre Intervals.

TABLE NO. 8

TRENCH SAMPLES - ASSAY VALUES

LOCATION - EASTERN RIDGE

UPPER SKARN ZONE - BACKHOE TRENCH - LEVEL 495L

Assay - Amdel Report AC 1529/81 No. Of Samples 48

SAMPLE NO.	ASSAY WO_3 (PPM - %)	SAMPLE NO.	ASSAY WO_3 (PPM-%)
700	1150	731	2750
701	1400	732	250
702	2100	733	200
703	1200	734	320
704	1700	735	1000
705	3150	736	720
706	2.20%	737	170
707	2950	738	640
708	2.58%	739	1050
709	5300	740	960
710	4000	741	680
711	4350	742	980
712	3350	743	880
713	720	744	150
714	3750	745	120
715	2050	746	150
716	880	747	150
717	1600		
718	1150		
719	380		
720	740		
721	2200		
722	2750		
723	1550		
724	1750		
725	4350		
726	2100		
727	980		
728	160		
729	1000		
730	1150		

All Samples Taken At 1 Metre Intervals.

TABLE NO. 9

ASSAY VALUES - EASTERN RIDGE

UPPER SKARN ZONE - 475 LEVEL OPEN CUT

Assay - Amdel Report No. Ac 81/81 Ac 103/81 No. Of Samples 43

SAMPLE NO.	ASSAY WO_3 (PPM-%)	SAMPLE NO.	ASSAY WO_3 (PPM-%)
163	980	193	1150
164	640	194	1100
165	560	195	1950
166	60	196	780
167	110	197	2600
168	140	198	1550
169	6300	209	310
170	2450	210	110
171	1.99%	211	75
172	7100	212	290
173	1800	213	460
174	680	214	480
175	3.50%	215	180
176	2200		
177	1200		
178	1.91%		
179	1.21%		
180	7600		
181	1800		
182	8700		
183	3800		
184	1700		
185	1.50%		
186	4050		
187	1300		
188	4850		
189	800		
190	380		
191	600		
192	400		

Samples Taken At 1 Metre Intervals.

TABLE NO. 10

ASSAY VALUES - EASTERN RIDGE

UPPER SKARN ZONE - 485 LEVEL OPEN PIT

Assay - Amdel Report No. Ac 81/81 No. Of Samples - 15

SAMPLE NO.	ASSAY WO_3 (PPM-%)
148	920
149	1350
150	300
151	180
152	240
153	480
154	240
155	180
156	1100
157	1300
158	640
159	250
160	120
161	350
162	860

Samples Taken At 1 Metre Intervals.

TABLE NO. 11

ASSAY VALUES - EASTERN RIDGE

UPPER SKARN ZONE - 495 LEVEL - BACKHOE TRENCH

Assay - Amdel Report No. Ac 81/81 Ac 82/81 No. Of Samples - 19

SAMPLE NO.	ASSAY WO_3 (PPM - %)
129	740
130	180
131	1750
132	1250
133	2450
134	1450
135	2800
136	2000
137	2350
138	2400
139	6000
140	3300
141	3000
142	2000
143	750
144	2100
145	1000
146	290
147	1100

Samples Taken At 1 Metre Intervals.

TABLE NO. 12

ASSAY VALUES - EASTERN RIDGE

UPPER SKARN ZONE - "GLORY HOLE" PIT

Assay - Amdel Report No. 82/81 No. Of Samples - 23

SAMPLE NO.	ASSAY WO_3 (PPM - %)
100	1.38%
101	3.12%
102	1.52%
103	6000
104	5100
105	2200
106	1600
107	100
108	40
109	60
110	200
111	1100
112	2550
113	5600
114	1.18%
115	1.88%
116	1.90%
117	1.41%
118	6500
119	3900
120	9500
121	4100
122	1.09%

Samples Taken at 1 Metre Intervals.

TABLE NO. 13

ASSAY VALUES - EASTERN RIDGE

UPPER SKARN ZONE - RIPPER TRENCH - UPPER LEVEL

Assay - Amdel Report No. Ac 82/81 No. Of Samples 6

SAMPLE NO.	ASSAY WO_3 (PPM - %)
123	1.40%
124	1.37%
125	3.08%
126	6900
127	5200
128	3900

Samples Taken At 1 Metre Intervals.

TABLE NO. 14

TRENCH SAMPLES - ASSAY VALUES

LOCATION - EASTERN RIDGE/ BOBS BONANZA

UPPER SKARN ZONE - AUGER TRENCH

Assay - Amdel Report No. Ac 1528/81 No. Of Samples

SAMPLE NO.	ASSAY WO_3 (PPM - %)
1100	110
1101	90
1102	100
1103	140
1104	85
1105	180
1106	85
1107	210
1108	140
1109	100
1110	110
1111	75
1112	160
1113	75
1114	50
1115	130
1116	70
1117	80
1118	320
1119	30
1120	100
1121	35
1122	40
1123	65
1124	220
1125	95
1126	250
1127	200
1128	200

All Samples Taken At 1 Metre Intervals.

TABLE NO. 15

OPEN CUT SAMPLES - ASSAY VALUES

BOBS BONANZA - OPEN CUT FACES

Assay - Amdel Report No. Ac 589/81 No. Of Samples 48

SAMPLE NO.	ASSAY WO_3 (PPM-%)	SAMPLE NO.	ASSAY WO_3 (PPM-%)
600	290	628	2500
601	1200	629	1050
602	490	630	640
603	1200	631	520
604	940	632	1500
605	680	633	1250
606	1650	634	660
607	1000	635	190
608	900	636	150
609	3050	637	270
610	1800	638	180
611	660	639	70
612	1300	640	490
613	1500	641	320
614	680	642	440
615	620	643	420
616	3750	644	380
617	660	645	60
618	860	646	150
619	1400	647	230
620	760		
621	760		
622	1000		
623	940		
624	1850		
625	1100		
626	4800		
627	4350		

Samples Taken At 1 Metre Intervals.

TABLE NO. 16

TRENCH SAMPLES - ASSAY VALUES

KARA NORTH - NORTHERN TRENCH

Assay - Amdel Report No. Ac 224/81 No. Of Samples 56

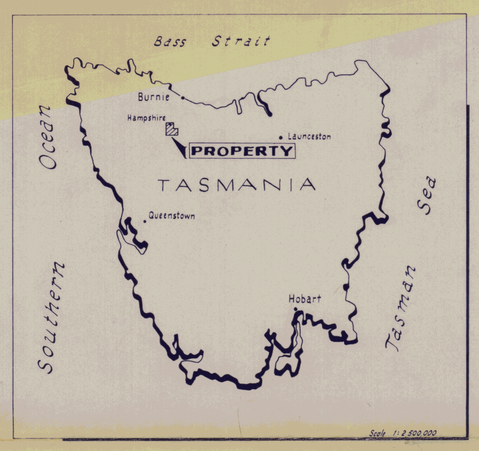
SAMPLE NO.	ASSAY WO_3 (PPM-%)	SAMPLE NO.	ASSAY WO_3 (PPM-%)
400	540	429	800
401	430	430	800
402	270	431	480
403	140	432	440
404	390	433	920
405	800	434	230
406	640	435	210
407	720	436	180
408	260	437	190
409	350	438	85
410	440	439	55
411	1350	440	55
412	360	441	45
413	380	442	25
414	1200	443	20
415	1750	444	20
416	2050	445	< 10
417	2900	446	10
418	3000	447	< 10
419	3050	448	< 10
420	2250	449	15
421	880	450	< 10
422	210	451	30
423	95	452	15
424	210	453	15
425	30	454	< 10
426	20	455	< 10
427	350		
428	720		

Samples Taken at 1 Metre Intervals.

80-1499

027033

PLAN Nº1



80-1499

E.L. 17/68 - KARA PROPERTIES

N

MAG.

0 100 200 300 400 500 Metres

SCALE 1:10,000

5 cm

GEOLOGY

RECENT — A — Alluvium

TERTIARY — V V — Basalt; Δ Δ — Conglomerate, breccias etc.

DEVONIAN — + + — Granite

ORDOVICIAN — GORDON LIMESTONE — Limestone

ORDOVICIAN — TRANSITION BEDS — Sandstone with calcareous members; Tactite Contact metamorphic zone; Sandstone and quartzite

REFERENCE

River

Creek

Road

Track

Railway

Trig. Beacon

Geological Boundary

Tungsten bearing skarns and ore zones

Prospective tungsten skarn zones

Tungsten exploration targets

Base Map enlarged from 1:100,000 Hellyer N.T.M. Sheet 8015 & Aerial Photographs

Drawn: Oct. 1980

HAMPSHIRE

HAMPSHIRE MAGNETITE

Hampshire Pty Mine (825960)

Emu River

Gulf River

Loughnor Creek

Big Creek

SUTTONS SKARN

KARA NORTH 266 ZONE

KARA NORTH MAGNETIC ZONE

Campbell River

CONSOLIDATED LEASE 105M-77 BOUNDARY

WESTERN RIDGE

EASTERN RIDGE

KARA Nº1 HILL

TASMINEX MAIN PIT

SOUTH SKARN

BOBS BONANZA

LOHREY'S PITS

KARA SOUTH

Old Park River

Yeoman Creek

Hellyway

KARA Nº2

KARA Nº2 EAST

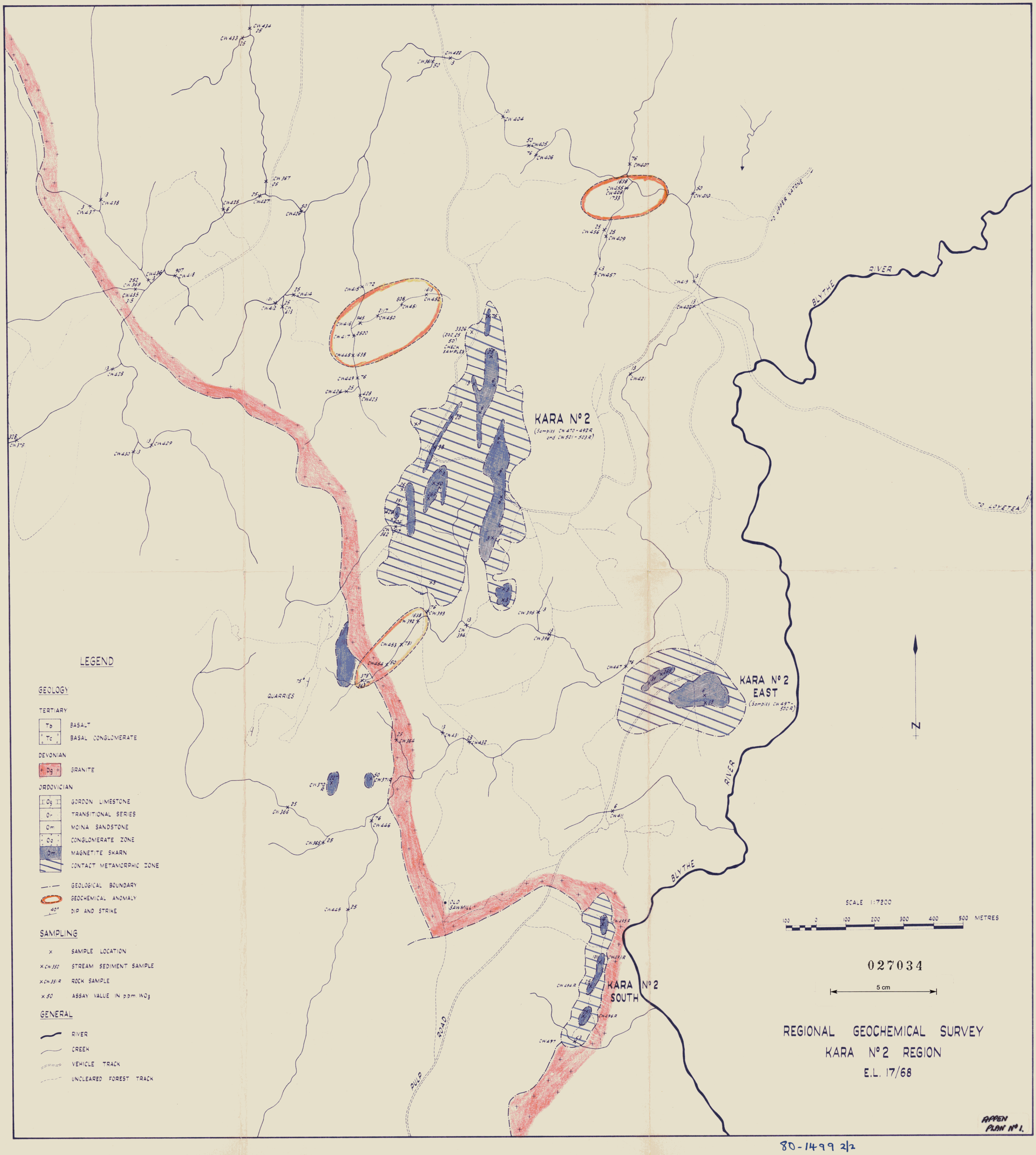
KARA Nº2 SOUTH

Bluff River

L1 L2 L3 L4 L5 L9 L10 L11 L12

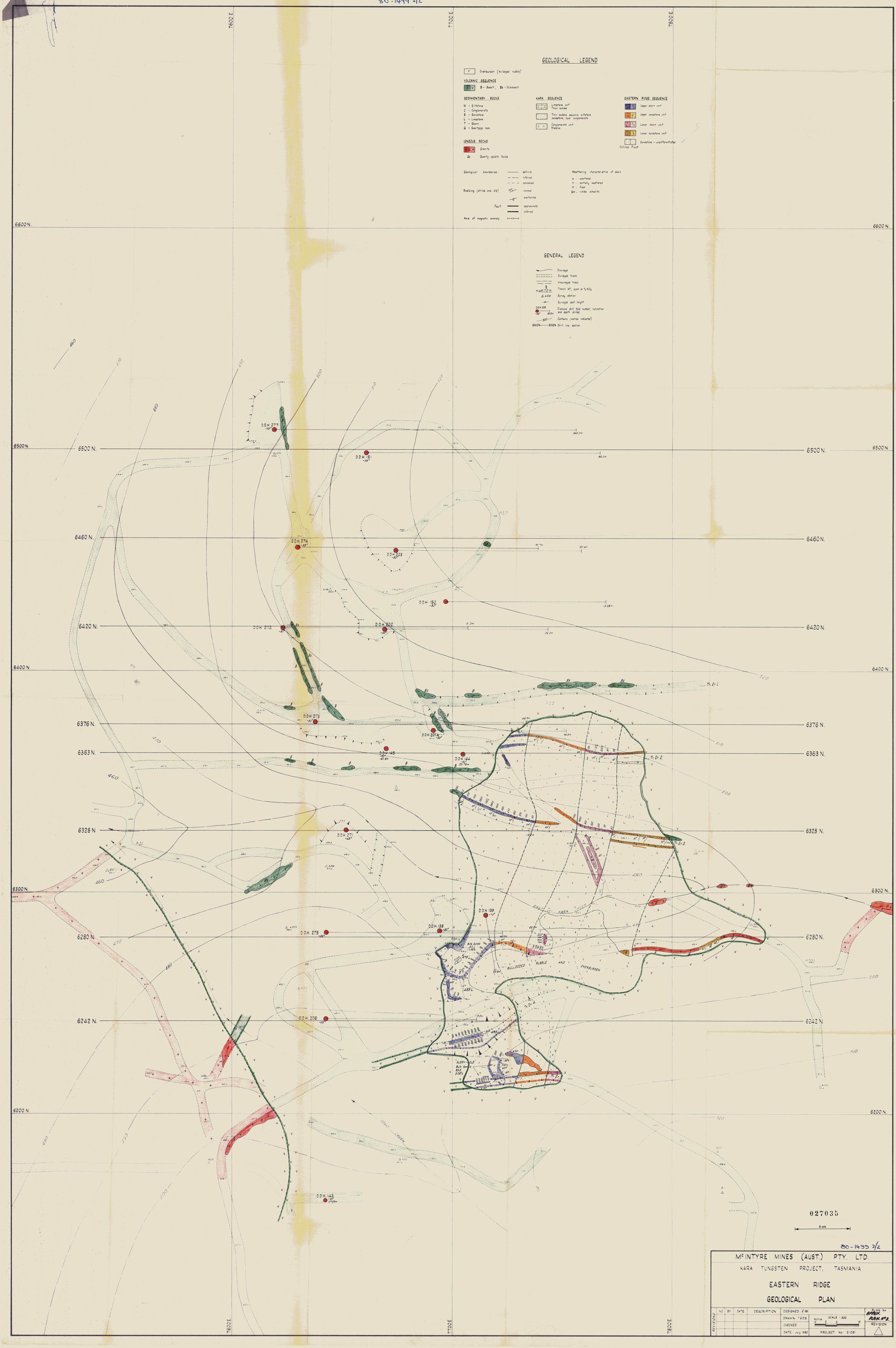
542 2000 N. 542 1000 N. 542 0000 N. 542 9000 N. 542 8000 N. 542 7000 N. 542 6000 N. 542 5000 N. 542 4000 N. 542 3000 N. 542 2000 N.

39 5000 E. 39 6000 E. 39 7000 E. 39 8000 E. 39 9000 E. 40 0000 E. 40 1000 E. 40 2000 E. 40 3000 E. 40 4000 E.


KARA Nº 2
(Samples CW 470 - 492R and CW 501 - 503R)
KARA Nº 2 EAST
(Samples CW 497 - 500R)
KARA Nº 2 SOUTH
BLYTHE RIVER
TO UPPER WATONE
TO LOVETEA
QUARRIES
OLD SAWMILL
PULP ROAD
CHECK SAMPLES
N
LEGEND
GEOLOGY
TERTIARY
Tb BASALT
Tc BASAL CONGLOMERATE
DEVONIAN
Dg GRANITE
ORDOVICIAN
Og GORDON LIMESTONE
O- TRANSITIONAL SERIES
Om MOINA SANDSTONE
Oc CONGLOMERATE ZONE
Om MAGNETITE SKARN
CONTACT METAMORPHIC ZONE
GEOLOGICAL BOUNDARY
GEOCHEMICAL ANOMALY
40° DIP AND STRIKE
SAMPLING
× SAMPLE LOCATION
× CW 350 STREAM SEDIMENT SAMPLE
× CW 351R ROCK SAMPLE
× 50 ASSAY VALUE IN p.p.m. WO3
GENERAL
RIVER
CREEK
VEHICLE TRACK
UNCLEARED FOREST TRACK
SCALE 1:7200
100 0 100 200 300 400 500 METRES
027034
5 cm
REGIONAL GEOCHEMICAL SURVEY
KARA Nº 2 REGION
E.L. 17/68
APPEN PLAN Nº 1.

80-1499 2/2

80-1499 2/2


GEOLOGICAL LEGEND
Overburden (bulldozed rubble)
VOLCANIC SEQUENCE
B - Basalt, Bs - Subbasalt
SEDIMENTARY ROCKS
N - Siltstone
C - Conglomerate
S - Sandstone
L - Limestone
T - Skarn
Q - Quartzose rock
IGNEOUS ROCKS
G - Granite
Qz Quartz epidote facies
KARA SEQUENCE
Limestone unit Thick bedded
Thin bedded sequence siltstone, sandstone, local conglomerate
Conglomerate unit Massive
EASTERN RIDGE SEQUENCE
Upper skarn unit
Upper sandstone unit
Lower skarn unit
Lower sandstone unit
Sandstone - undifferentiated
Outcrop Float
Geological boundaries: definite
inferred
concealed
Bedding (strike and dip) normal
overturned
Fault approximate
inferred
Axis of magnetic anomaly
Weathering characteristics of skarn
X - weathered
Y - partially weathered
F - fresh
Sch - visible scheelite
GENERAL LEGEND
Drainage
Surveyed track
Unsurveyed track
Trench No, ppm or % WO3
Survey station
Surveyed spot height
Diamond drill hole number, inclination and depth drilled
Contours (metres indicated)
Drill line section
7600 E.
7700 E.
7800 E.
6600 N.
6500 N.
6460 N.
6420 N.
6400 N.
6376 N.
6363 N.
6328 N.
6300 N.
6280 N.
6242 N.
6200 N.
DDH 277
DDH 151
DDH 274
DDH 203
DDH 150
DDH 272
DDH 202
DDH 273
DDH 201A
DDH 145
DDH 144
DDH 271
DDH 139
DDH 138
DDH 275
DDH 276
DDH 143
Tr. Er. 1.
Tr. Er. 2.
Tr. Er. 3.
Tr. Er. 4.
EAST KARA
BULLDOZED RUBBLE AND OVERBURDEN
GLORY-HOLE
GULLY CREEK
027035
5 cm
80-1499 2/2
McINTYRE MINES (AUST.) PTY. LTD.
KARA TUNGSTEN PROJECT, TASMANIA
EASTERN RIDGE
GEOLOGICAL PLAN
REVISIONS
NO BY DATE DESCRIPTION
DESIGNED: C.W.
DRAWN: T.G.D.S.
CHECKED:
DATE: July 1980
SCALE 1:500
PROJECT No: 21081
PLAN No APPEN. PLAN. No 2.
REVISION

80-1499

GEOLOGICAL LEGEND

r — Overburden (bulldozed rubble)

VOLCANIC SEQUENCE

V V — B - Basalt, Bs - Subbasalt

SEDIMENTARY ROCKS

N - Siltstone
C - Conglomerate
S - Sandstone
L - Limestone
T - Skarn
Q - Quartzose rock

KARA SEQUENCE

Limestone unit
Thick bedded

Thin bedded sequence siltstone sandstone, local conglomerate

Conglomerate unit
Massive

EASTERN RIDGE SEQUENCE

Upper skarn unit

Upper sandstone unit

Lower skarn unit

Lower sandstone unit

Sandstone - undifferentiated

Outcrop Float

IGNEOUS ROCKS

+ G + — Granite

Qs — Quartz epidote facies

Geological boundaries: definite; inferred; concealed

Bedding (strike and dip): normal; overturned

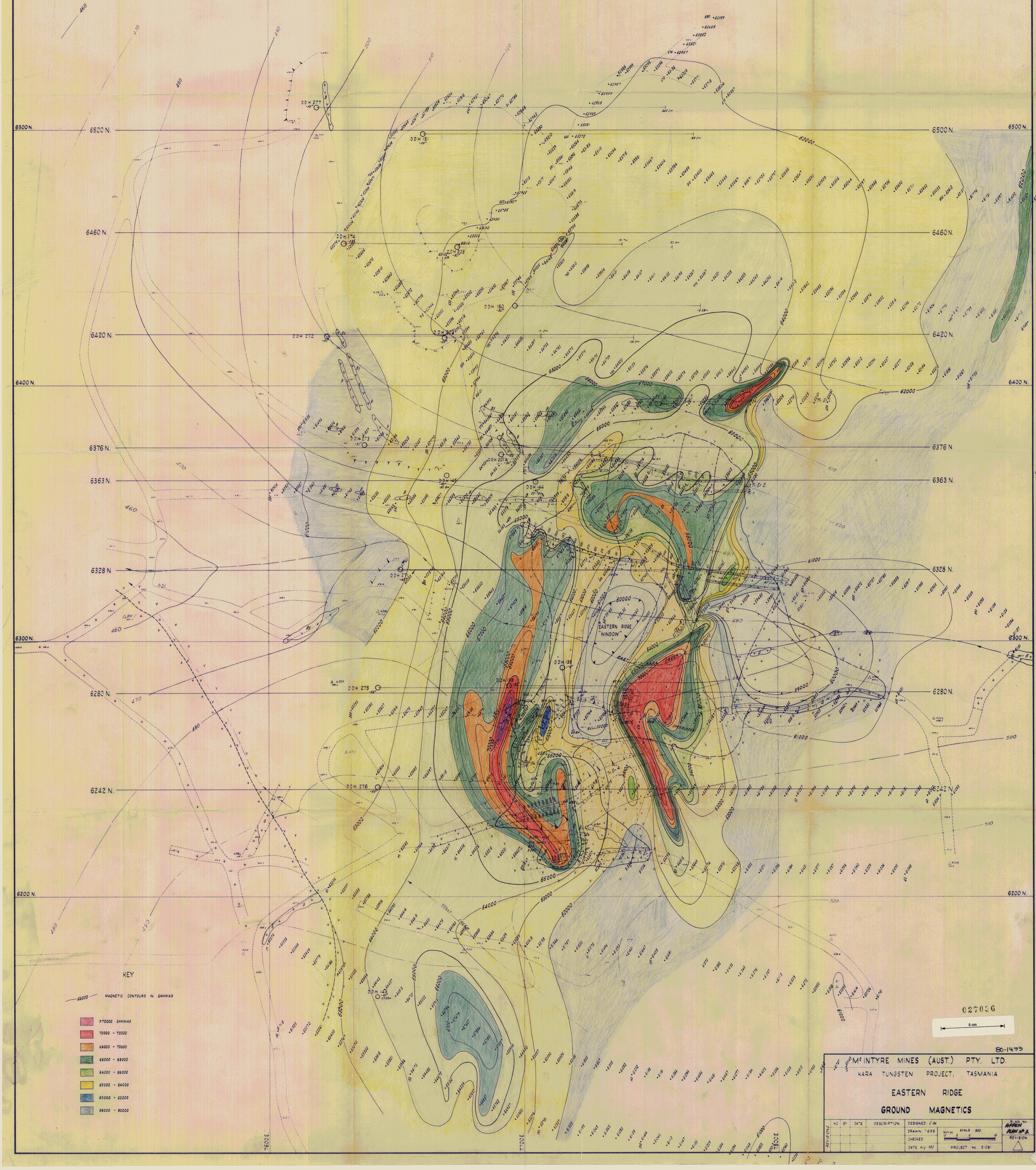
Fault: approximate; inferred

Axis of magnetic anomaly

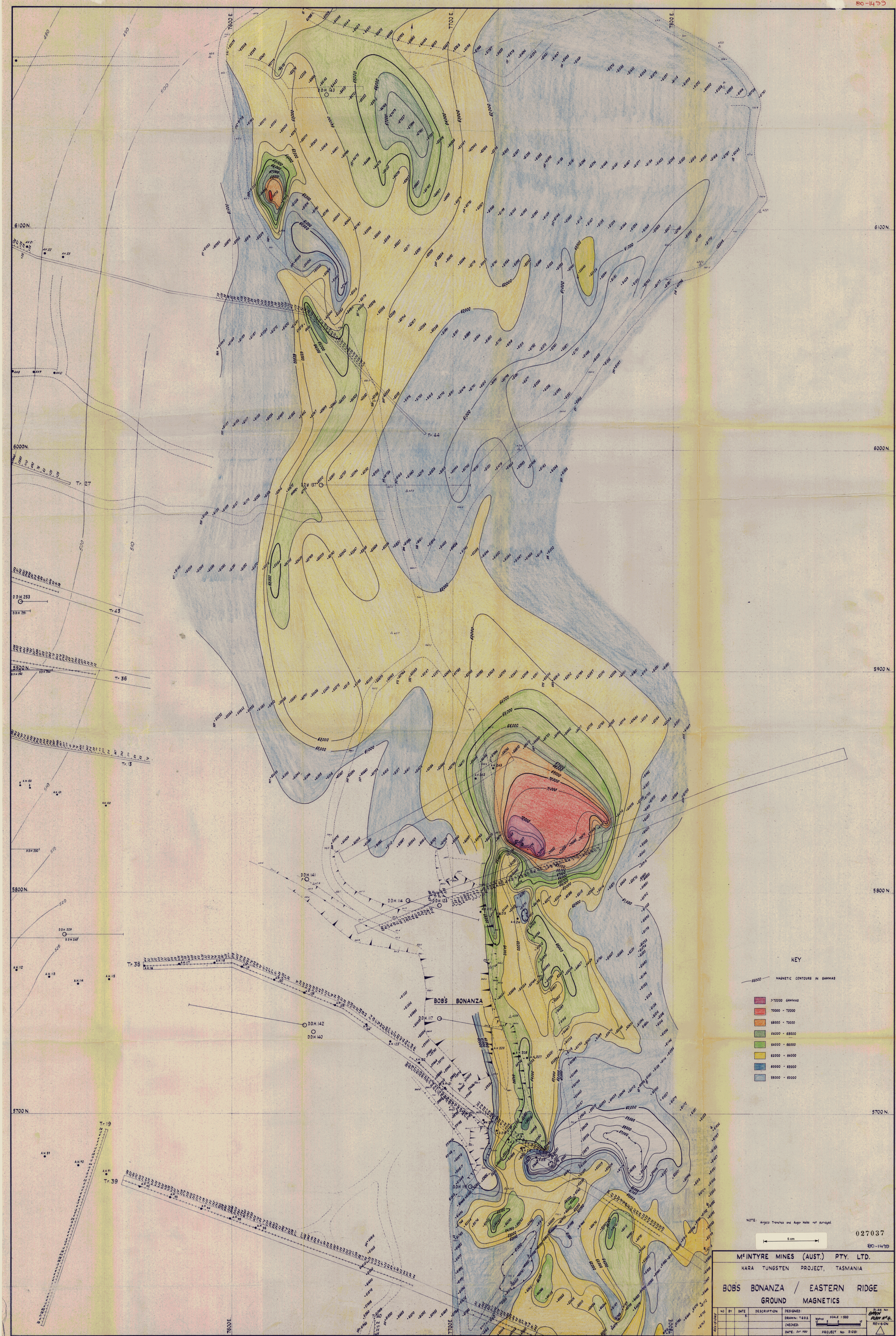
Weathering characteristics of skarn
X - weathered
Y - partially weathered
Z - fresh
Sch - visible scheelite

GENERAL LEGEND

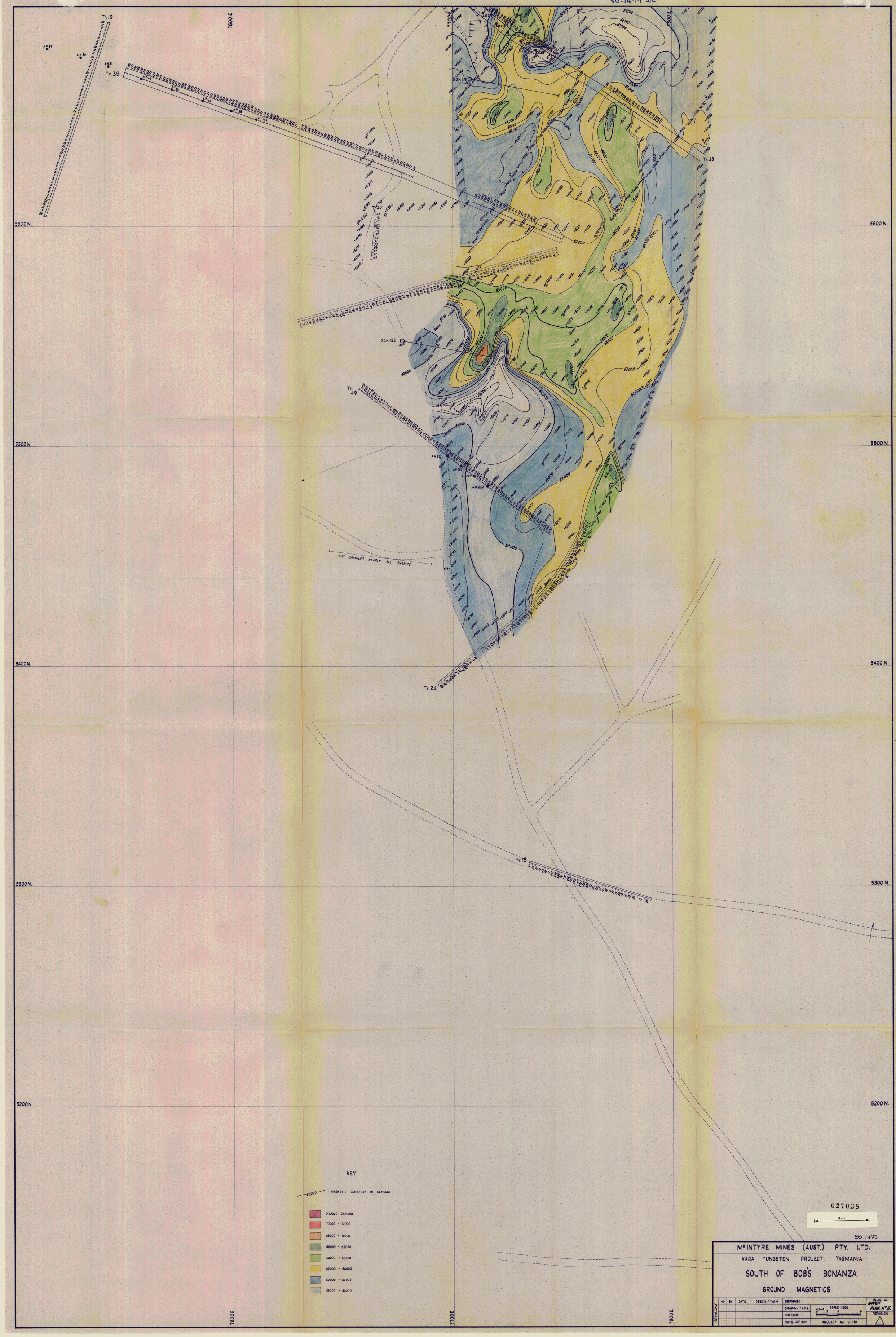
Drainage
Surveyed track
Unsurveyed track
Trench No., ppm or % WO_3
Survey station
Surveyed spot height
D.D.H. 205 — Diamond drill hole number, inclination and depth drilled
Contours (metres indicated)
6242N — 6242N Drill line section



80-1499


7600 E.
7700 E.
7800 E.
6100 N.
6000 N.
5900 N.
5800 N.
5700 N.
D.D.H. 143
D.D.H. 137
D.D.H. 253
D.D.H. 251
D.D.H. 141
D.D.H. 114
D.D.H. 123
D.D.H. 117
D.D.H. 142
D.D.H. 140
D.D.H. 119
D.D.H. 229
D.D.H. 248
Tr. 27
Tr. 43
Tr. 36
Tr. 13
Tr. 44
Tr. 38
Tr. 19
Tr. 39
Tr. 40
BOB'S BONANZA
KEY
66000 MAGNETIC CONTOURS IN GAMMAS
>72000 GAMMAS
70000 - 72000
68000 - 70000
66000 - 68000
64000 - 66000
62000 - 64000
60000 - 62000
58000 - 60000
NOTE: Angsco Trenches and Auger Holes not surveyed.
5 cm
027037
80-1499
McINTYRE MINES (AUST.) PTY. LTD.
KARA TUNGSTEN PROJECT, TASMANIA
BOBS BONANZA / EASTERN RIDGE
GROUND MAGNETICS
NO BY DATE DESCRIPTION
REVISIONS
DESIGNED:
DRAWN: T.G.D.S.
CHECKED:
DATE: Oct 1980
SCALE 1:500
PROJECT No: 21081
PLAN No
OPEN PLAN No 4.
REVISION

80-1499 2/2


Tr. 19
Tr. 39
7600 E.
7700 E.
7800 E.
5600 N.
5500 N.
5400 N.
5300 N.
5200 N.
D.D.H. 11
D.D.H. 122
Tr. 38
Tr. 49
Tr. 24
Tr. 15
NOT SAMPLED NEARLY ALL GRANITE
KEY
66000 MAGNETIC CONTOURS IN GAMMAS
>72000 GAMMAS
70000 - 72000
68000 - 70000
66000 - 68000
64000 - 66000
62000 - 64000
60000 - 62000
58000 - 60000
027038
5 cm
80-1499
McINTYRE MINES (AUST.) PTY. LTD.
KARA TUNGSTEN PROJECT, TASMANIA
SOUTH OF BOB'S BONANZA
GROUND MAGNETICS
REVISIONS
NO
BY
DATE
DESCRIPTION
DESIGNED:
DRAWN: T.G.D.S.
CHECKED:
DATE: Oct 1980
SCALE 1:800
Metres
PROJECT No: 21081
PLAN No
APPEN
PLAN. No 5.
REVISION

027039 80-1499

Sample	W	Sample	W
CW 433	25	CW 406	76
434	25	407	76
367	25	455	1638
427	25	408	1733
425	6	456	25
426	50	409	25
437	3	457	-3
438	13	410	50
436	13	419	13
368	252	420	13
435	315	421	13
418	~~78~~ 907	447	76
428	13	396	13
375	328	395	13
430	13	394	13
429	13	393	76
414	25	392	1638
412	101	453	731
413	25	454	50
415	1172	388	378
416	945	364	25
417	2520	431	13
450	2117	432	25
451	806	446	76
452	1613	365	25
448	1638	366	25
449	76	445	25
424	25	362	517
428	428	497	-3
361	50	411	6
422	13		
404	101		
405	50		