Open File Envelope No. 3847

EL 584; ML 4209 AND ML 4529

MOUNT VICTOR; KIRKEEK'S TREASURE MINE

PROGRESS AND FINAL REPORTS TO LICENCE EXPIRY/SURRENDER FOR THE PERIOD 14/2/1980 TO 13/2/1981

Submitted by
CRA Exploration Pty Ltd
1981

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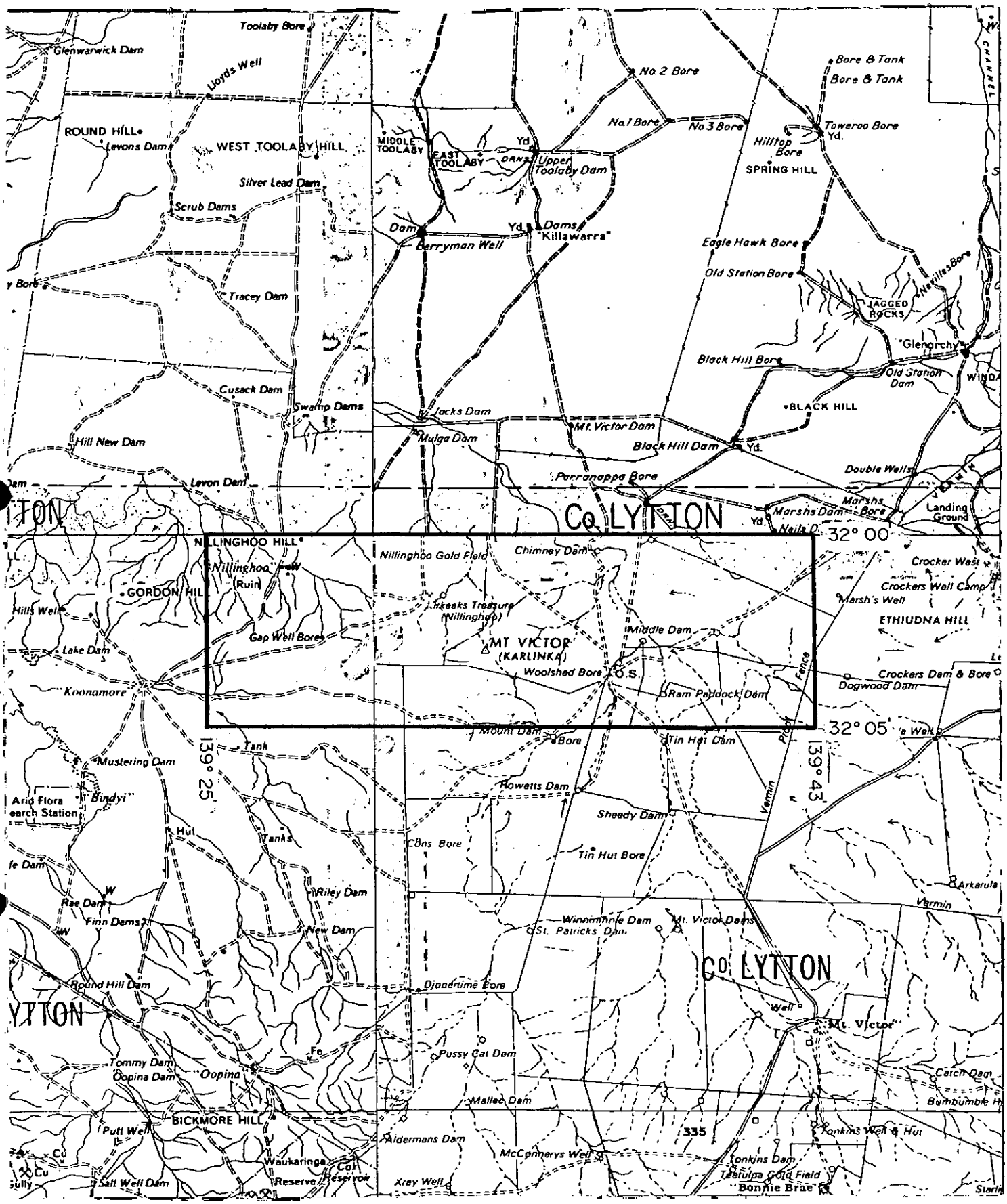
Government of South Australia
Primary Industries and Resources SA

SCHEDULE A



SCALE 1:250,000

KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

CURRENT

APPLICANT: C.R.A. EXPLORATION PTY. LTD.

DM: 530/79 AREA: 262 square kilometres

1:250000 PLANS: ORRORoo OLARY

LOCALITY: MT VICTOR AREA – Approx. 60km North of Yunta.

DATE GRANTED: 14 · 2 · 80 DATE EXPIRED: (13 · 2 · 81 / 82) EL No: 584

CONTENTS ENVELOPE 3847 TRANSPRENCLES 3847/7

TENEMENT: EXPLORATION LICENCES 584

TENEMENT HOLDER: C.R.A . EXPLORATION PTY. LTD

REPORTS:

MAYER T.E. 1980
First quarterly report on Mt. Victor E.L. 584 South Australia for the period ending May 13th 1980 (pgs. 4036)

Plans: APPENDIX 1

	Drill Core Log.	(3847-1)
SA a 436	Mt. Victor Preliminary geology	(3847-2)
SA a 385	Mt. Victor Kirkeek's Treasure Mine 4200E	(3847-3)
SA a 386	Mt. Victor Geological cross- section showing (80- KTD 2)	(3847-4)
SA a 437	Mt. Victor Kirkeek's Treasure Mine Geological cross section 3977 E	(3847-5)

REPORTS:

MAYER T.E. 1980
Second quarterly report on Mt. Victor E.L. 584 South Australia for period ending 13th August 1980 (pgs. 37-42)

Plans:

SA a 302	Location Map.	(pg. 43)

REPORTS:

MAYER T.E. 1980
Third quarterly report on Mt. Victor E.L. 584 South Australia for period ending 13th November 1980 (pgs. 44-48)

Plans:

SA a 302	Location Map	(pg.49)
628	Kirkeek's Treasure Mine and leases shollow percussion drill hole locations.	(3847-6)

CONTENTS ENVELOPE 3847 Cont

REPORTS:

MAYER T.E. 1981

Final report (Relinquishment) on Mt. Victor E.L. 584 South Australia Including fourth quarterly report for period ending February 13th 1981 (pgs. 50-61)

Plans:

APPENDIX 1 Diamond drill logs and assays (3847-7)--(3847-10)

APPENDIX 2 Percussion drill logs and assays. (3847-11)-(3847-87)

SA a 436	Mt. Victor Preliminary geology	(3847-2)
SA a 385	Mt. Victor Kirkeek's treasure Mine 4200E	(3847-3)
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SA a 437	Mt. Victor Kirkeek's Treasure Mine ML 4244 Geogical cross section 3977E	(3847-5)
SA a 327	Mt. Victor Kirkeek's Treasure Gold Mine main shaft and underground workings 3-D Reconstruction looking N.E.	(3847-88)

C.R.A. EXPLORATION PTY. LIMITED

004

Ref. No. 10170.

SUBJECT: First Quarterly Report on Mount Victor
E.L. 584, South Australia
For The Period Ending May 13, 80

AUTHOR: T. E. Mayer

DATE: 1.8.1980

10170.

C.R.A. EXPLORATION PTY. LIMITED

FIRST QUARTERLY REPORT ON MOUNT VICTOR E.L. 584 SOUTH AUSTRALIA FOR THE PERIOD ENDING MAY 13, 1980

AUTHOR: T.E. MAYER

SUBMITTED TO: D.R. KENNEDY

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S.A.D.M.E.

DATE: 1.8.1980

CONTENTS

1. ABSTRACT

Gold exploration was undertaken, with particular emphasis on Kirkeek's Treasure Mine and adjacent areas. A comprehensive literature survey was undertaken. The area of interest was surveyed and a contour plan prepared.

Rock chip sampling, geological mapping and a ground magnetometer survey were followed by diamond drilling, (on Mineral Leases excluded from E.L. 584). Drilling indicated the presence of parasitic folding which is not readily discernible on the surface, due to poor outcrop. Gold assays from drill core were generally low and the prospect has been downgraded. However, potential for a small ore body remains. Percussion drilling is recommended to test this potential.

2. CONCLUSIONS

2.1

Gold mineralisation in the vicinity of Kirkeek's Treasure Mine is concentrated within transgressive tensional quartz-limonite-hematite-pyrite-(gold) veins varying in thickness from a few centimetres to approximately three metres.

2.2

The mineralised veins are largely confined within a feldspathic quartzite unit. Most veins do not penetrate the overlying siltstones and underlying dolomitic siltstones. Where veins do penetrate these units, they thin dramatically at the contact.

2.3

Gold content of the veins is patchy, varying from very high grade down to virtually nil. The gold is generally fine-grained.

2.4

Surface rock sampling is of dubious value due to the limited amount of outcrop, and the danger of contamination from the present workings.

2.5

Diamond drilling has downgraded the prospect's potential, but has revealed the presence of parasitic folding.

2.6

Drilling, to date, has not adequately tested the prospect. Potential remains for a small ore body suitable for open-cut mining.

3. RECOMMENDATIONS

3.1

Further mapping should be undertaken in order to correlate surface geology with drill hole information.

3.2

Percussion drilling to test the eastern end of the prospect is recommended.

3.3

The along-strike potential should be tested by shallow bed-rock sampling using a small percussion rig.

4. INTRODUCTION

Mount Victor E.L. 584 was applied for on 24th September, 1979 and was granted on 14th February, 1980, for a term of one year. Gold is the principal commodity being sought.

The Nillinghoo Goldfield, which includes Kirkeek's Treasure Mine, lies within the Licence area. However, nine Mineral Leases, (M.L.'s 4106, 4209, 4244, 4529, 4824, 4825, 4826 and 4842), on the Nillinghoo Goldfield are excluded from the Exploration Licence. C.R.A. Exploration Pty. Limited is the Leaseholder for M.L.'s 4824, 4825 and 4826, and holds options to purchase the remaining six M.L.'s

Consequently, exploration has been undertaken over the whole of the Nillinghoo Goldfield, (i.e. within E.L. 584 and on the Mineral Leases).

Since exploration on the Mineral Leases is directly related to exploration on E.L. 584, all exploration is discussed in this report. Drill logs for the four diamond drill holes drilled on Mineral Leases are appended to this report.

5. HISTORY

The following history of the Nillinghoo Goldfields was compiled from references indexed by the S.A.D.M.E. historian, Mr. Royce Wells, whose assistance is gratefully acknowledged. A list of references is included at the end of this report.

Gold was discovered at Nillinghoo in January, 1894 by Henry Kirkeek and mining commenced shortly thereafter. Between 1894 and 1897 mining consisted of small-scale open-cutting on the principal vein and underground mining from the bottom of the open cut. The main shaft was sunk to a depth of sixty four metres. Underground development, (drives, stopes, cross-cuts and a winze), was confined to the oxide zone of the host quartzite unit. The main shaft was continued down through the virtually barren footwall dolomitic siltstone in an unsuccessful attempt to strike water.

Recorded production of the Kirkeek's Treasure Gold Mining Company between 1894 and 1897 was 1,269 tone producing 646 oz. 15 dwts. 1 gr. of gold bullion. The first ore was carted to Yunta and railed from there to Mount Torrens for treatment at the Government Battery and Cyanide Works. Subsequently, a five-head stamp battery was erected at the mine and crushing commenced on 4th May, 1896.

At the time of installation of the battery, a water shaft was excavated to a depth of 43.6 metres, but no significant water was encountered. The water shaft was located about 250 metres south of the main workings.

The battery was operated up to twenty hours per day but scarcity of water made its operation erratic and expensive. Figures given by the Government Geologist (Brown, 1897) indicate that 1090 tons of ore were crushed, yielding 428 ounces of bullion values at £1529/4/2. Water carting charges for the above crushing were £584.

Following the failure of the first Kirkeek's Treasure Gold Mining Company, a syndicate bought the mine and plant, and deepened the water shaft to 64 metres. No gold production was recorded, and eventually the battery was removed.

In 1900, work recommenced at the mine. Recorded production of this syndicate was 780 ounces of gold from 485 tons of ore. Ore was carted to Yunta and railed to Peterborough for treatment at the Government Battery and Cyanide Works.

A company was formed to work the mine. A ten head battery, (part of the old Alma Extended plant at Waukaringa), was erected, and a new water well, 550 metres east of the main workings was sunk to a depth of 102 metres. Water was struck at 92 metres but upon deepening of the shaft, the supply dwindled to 400 gallons per day. According to one report (Mining Review No. 19, 1913) a drive was put in at a depth of 102 metres, goind north east for 18 metres. The drive is supposed to have intersected a vein of pyritic material assaying 2 ounces 7 pennyweights of gold per ton (Mining Review 19, 1914).

By December 31, 1913, total recorded production from Kirkeek's Treasure Mine was 2 158 ounces, 5 pennyweights, 13 grains of gold bullion from 3 231.5 tons of ore. This production figure includes gold obtained by cyaniding 170 tons of tailings at the mine. Details of production are listed in Mining Review 19, 1914.

Water supply remained a problem at the mine. In 1914, a dam, (holding capacity 911 250 gallons), was excavated by the Government but there is not record of it ever holding water. A three inch water pipe was transferred in 1915 from Symon's Well near Waukaringa and laid between the Gap Well and the mine, a distance of 3.5 miles. However, the pipes corroded rapidly, and mining ceased at Kirkeek's Treasure in 1916.

Intermittent small-scale mining has been resumed from time to time at Kirkeek's Treasure, (e.g. in 1931 and from about 1974 through to the present day).

6. GEOLOGY AND STRUCTURE

The Mount Victor Exploration Licence covers a portion of an east-west trending anticlinal dome structure with Burra Group sediments in the core and overlying Yudnamutana Sub-group fluvioglacial sediments, (including the Holowilena Ironstone).

Kirkeek's Treasure Mine is situated on the northern limb of the anticline near its eastern closure. Mineralisation occurs within transgressive quartz-limonite-pyrite-hematite-(gold)-veins hosted by a feldspathic quartzite unit of the Burra Group. The quartzite unit is overlain by siltstones and shales and underlain by a thick dolomitic siltstone unit. Various orientations of mineralised quartz veins are observable within the mine area. The veins are interpreted as tension gashes within the competent quartzite unit. Generally, the veins do not penetrate the less competent overlying and underlying siltstones.

Diamond drilling has indicated the presence of a parasitic fold within tbe mine area. It is thought that tension gash veins are likely to parallel a radial cleavage about this structure. Further drilling is necessary to test the hypothesis.

7. EXPLORATION

7.1 SURVEY

An area 2.0 kilometres x 0.7 kilometres centred on Kirkeek's Treasure Mine was surveyed by contractors. A grid was established and a contour plan was prepared showing relevant surface features, lease boundary peg and grid locations and old and present day workings.

Original plan scale was 1:1 000, but this was photoreduced to 1:2 500 (Plan SAa 436).

7.2 GEOLOGICAL MAPPING

Mapping of the surveyed area was undertaken at 1:2 500 scale (Plan SAa 436). Mapping was hampered by poor outcrop, (considerable quartzite float, sand, sandy soil and calcrete cover), and a general lack of clear bedding features. Within the main workings bedding is clearly observable, with well preserved sedimentary structures, (ripple marks and load casts). Average dip is 50^{o} towards the north, but some steeper and overturned beds were also observed.

7.3 GEOPHYSICS

A ground magnetometer orientation survey was undertaken. Five south-north traverses were recorded, (at 3800E, 4000E, 4100E, 5200E and 4300E). Corrected profiles are appended to this report (Appendix 1).

Results indicate that a detailed magnetic survey is not warranted at this prospect.

7.4 GEOCHEMICAL SAMPLING

Approximately 330 large geochemical samples, (average weight 2.5 kilograms), have been collected and analysed for gold. Most samples were analysed by Fox Laboratories by chemical/ A.A.S. finish method using a 25 gram charge. Geochemical ledgers were appended to this report (Appendix 2).

Core from a previously drilled hole, (N.B.H. D.D.K. 1), was obtained from North Broken Hill Ltd. Previously unassayed sections of this hole were sampled. Core was cut, bagged at one metre intervals and assayed for gold. Results are appended (Appendix 3).

7.5 DIAMOND DRILLING

Four diamond drill holes were drilled on the Mineral Leases. Locations and surface projections are marked on Plan SAa 436. Drill logs, assay results and geophysical logs for 79/80 KTD 1 are appended (Appendix 4). Logs for the remaining three holes will be reported in the next quarterly report.

Of the four holes, only 80 KTD 2 intersected significant mineralisation. Sixteen metres, (from 19 to 35 metres), averaged 1.0 part per million gold. This intersection includes one metre of 4.45 p.p.m. gold.

Seventy samples, including thirty six samples from 80 KTD 2, were submitted to AMDEL for check analyses, (using Fire Assay/ A.A.S. Finish Method, AMDEL code K4/2). Correlation with earlier assays, (Fox Laboratories Chemical/A.A.S. Finish Method), was generally very good. However, for 80 KTD 2 gold values were upgraded near the surface by AMDEL. Three metres, (from 4.0 to 7.0 metres), averaged 3.81 p.p.m. gold by fire assay, including one metre of 7.00 p.p.m. gold. Fox Laboratory assays averaged 0.21 p.p.m. gold over the same interval. These samples will be re-submitted for fire screen analysis in order to establish a more precise value.

Three cross-sections (Plan Nos. SAa 385, 386 and 437) showing drill holes, assays, surface geology and interpreted geology are attached to this report.

Ann Williams.
for.

T.E. MAYER

REFERENCES

Brown, H.Y.L. 1897	Report on Kerkeeks Treasure Gold Mine. Report Book 1, p. 787 S.A.D.M.E. (unpub.)
Brown, H.Y.L. 1908	Record of the Mines of South Australia Pages 225, 256
King, A.G. 1974	Investigations of the Kirkeek's Treasure, Koonamore Station, Near Yunta, S.A., by North Broken Hill Limited. S.A.D.M.E. Open File Envelope 2469
South Australian Department of Mines and Energy	Mining Reviews Nos. 8, 11, 13, 15-25, 45, 54
South Australian Department of Mines and Energy	Newspaper Copy Books Volumes 10, 12, 14-18, 21, 31
South Australian Department of Mines and Energy	Plan Nos. 832-835, 1610

KEYWORDS

Location: Orroroo SI 54-1
Olary SI 54-2

(s) Burra Group, diamond drilling, geochemistry, geophysics, gold, hematite, limonite, magnetics, mapping, pyrite, quartz, quartzite, shale, siltstone, tension gashes, transgressive.

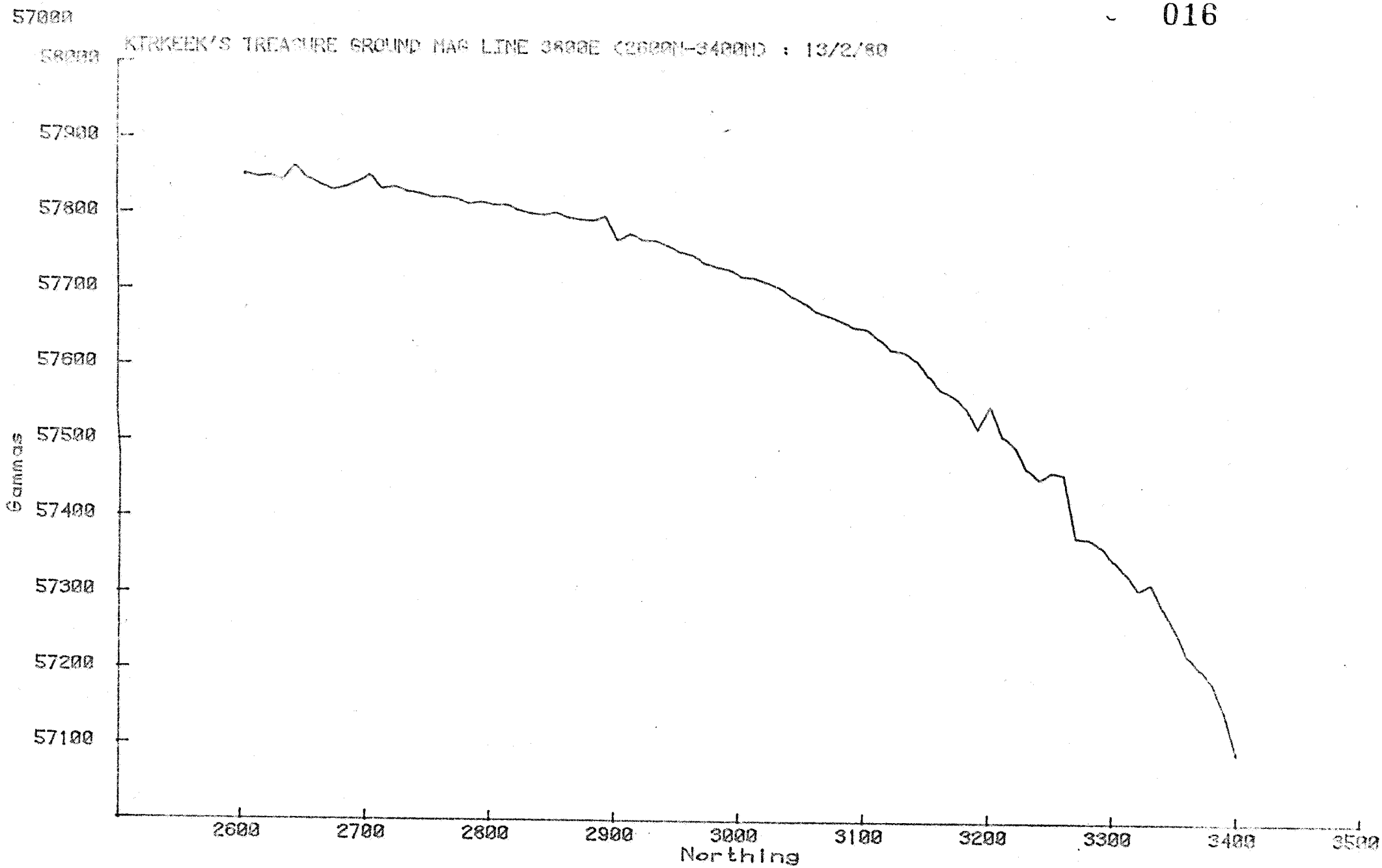
LIST OF ATTACHMENTS

Appendix 1 Ground Magnetometer Traverse Profiles.
Appendix 2 Geochemical Ledgers - Surface Sampling
Appendix 3 N.B.H. D.D.K. 1 - Additional Assays
Appendix 4 Drill Logs: 79/80 KTD 1

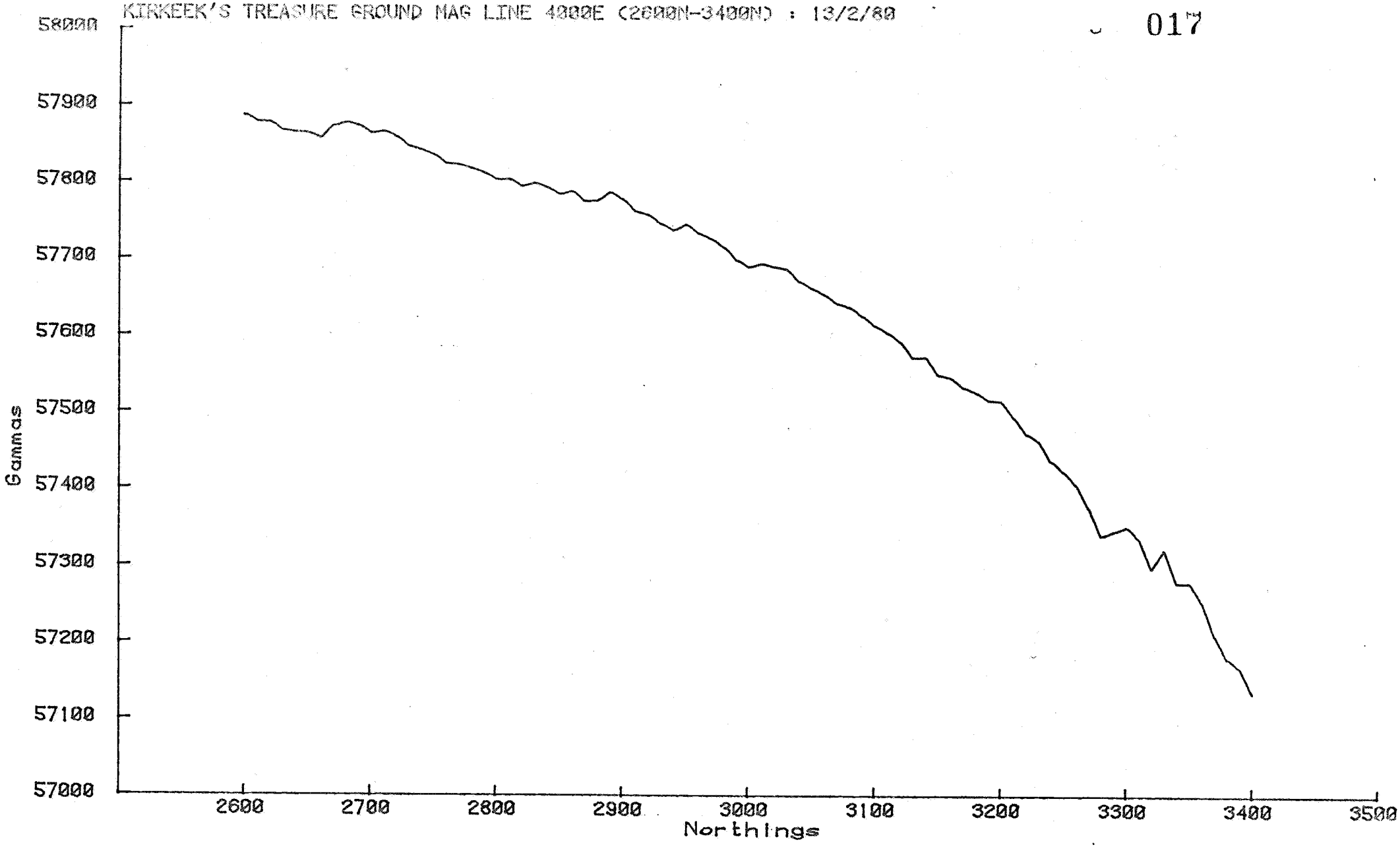
LIST OF PLANS

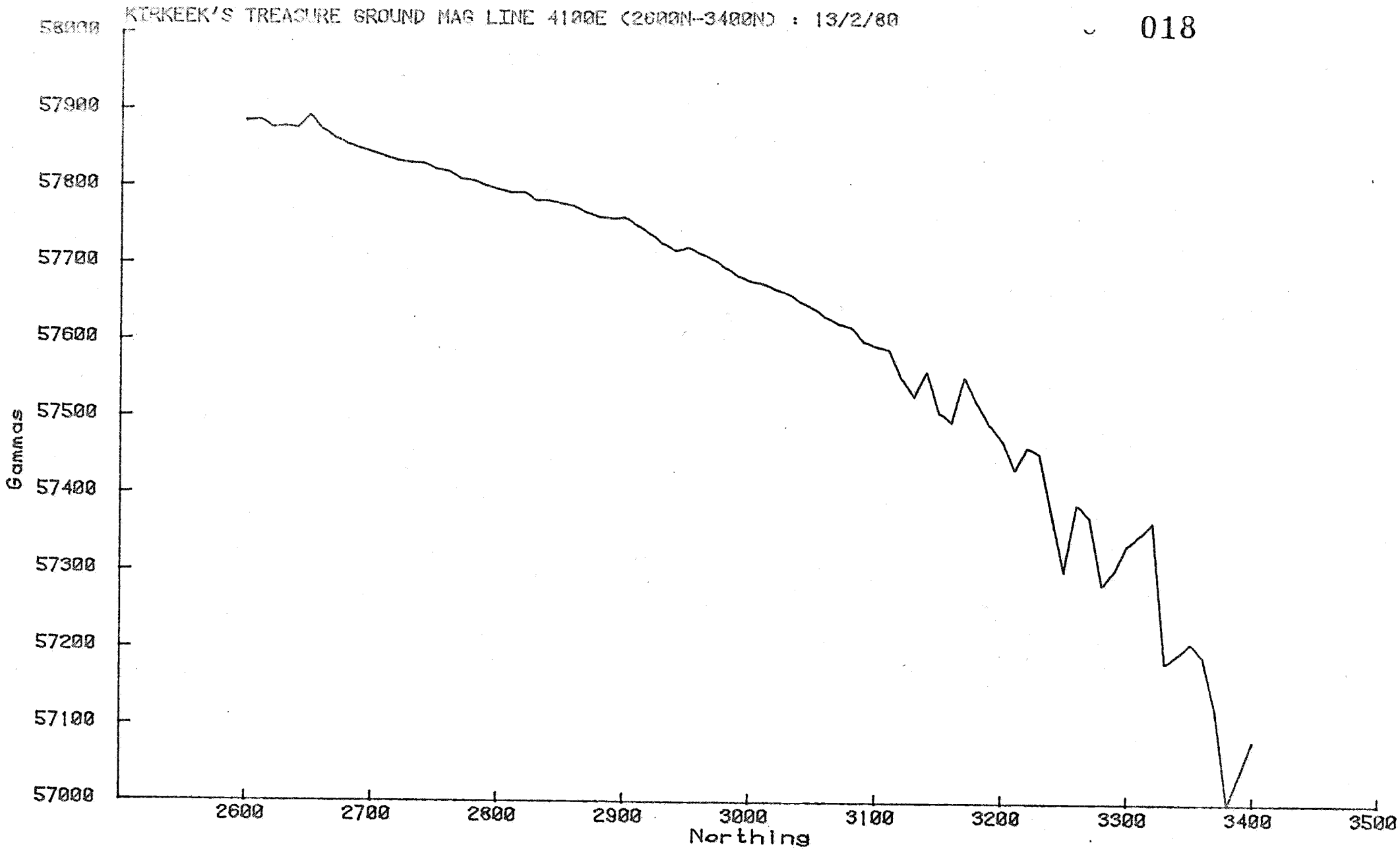
Plan No.	Title	Scale
SAa 436	Kirkeek's Treasure Mine Leases & Surrounding Mt. Victor E.L. 584 Preliminary Geology.	1:2 500
SAa 385	Geological Cross-section, 4200E, looking West	1: 500
SAa 386	Geological Cross-section, 4400E, looking West	1: 500
SAa 437	Geological Cross-section, 3977E, looking West	1: 500

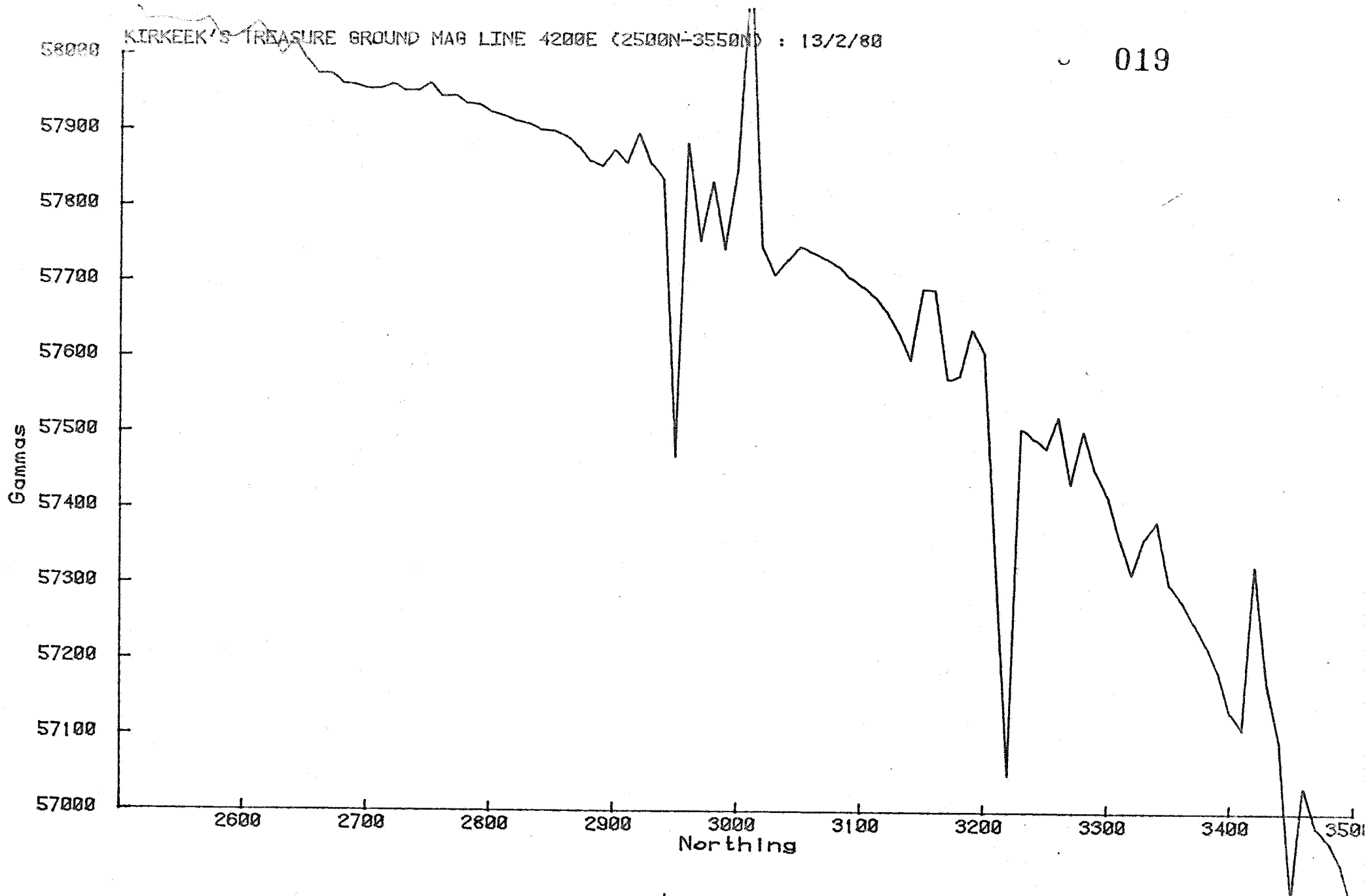
APPENDIX I


57000
58000
KIRKEEK'S TREASURE GROUND MAG LINE 3800E (2600N-3400ND : 13/2/80
57900
57800
57700
57600
57500
57400
57300
57200
57100
Gammas
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
Northing

KIRKEEK'S TREASURE GROUND MAG LINE 4000E (2600N-3400N) : 13/2/80

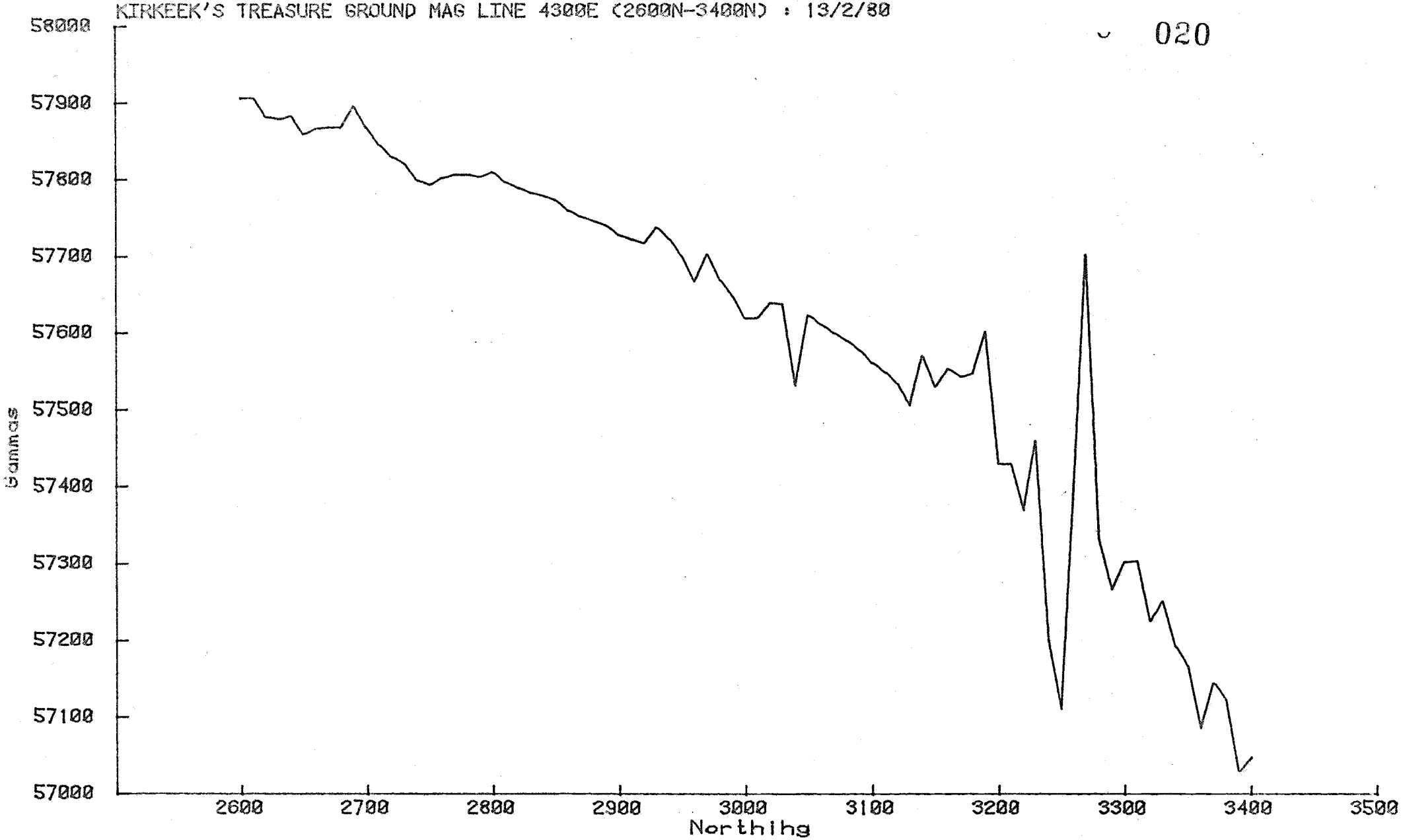


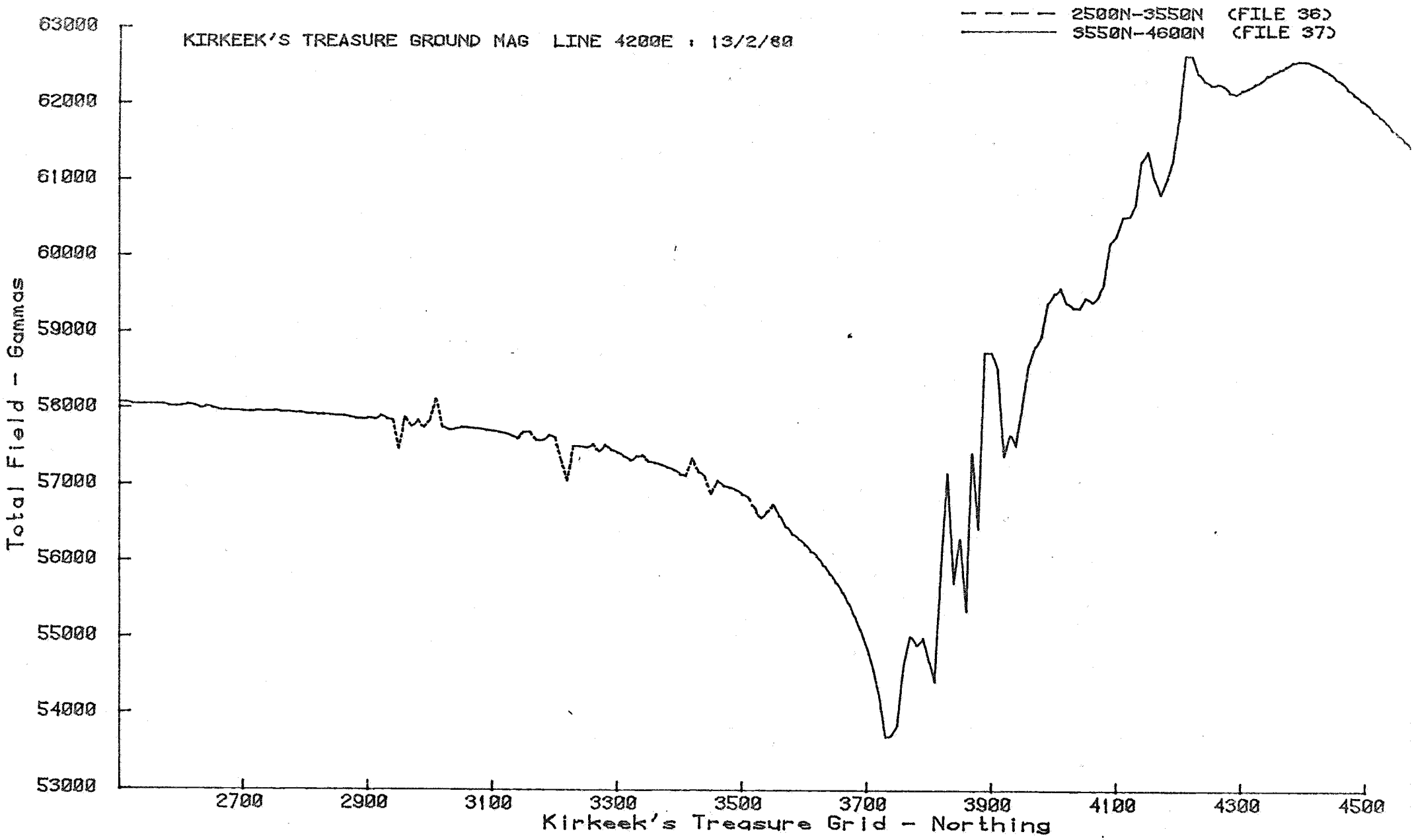

KIRKEEK'S TREASURE GROUND MAG LINE 4100E (2600N-3400N) : 13/2/80
58000
57900
57800
57700
57600
57500
57400
57300
57200
57100
57000
Gammas
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
Northing


KIRKEEK'S TREASURE GROUND MAG LINE 4200E (2500N-3550N) : 13/2/80
58000
57900
57800
57700
57600
57500
57400
57300
57200
57100
57000
Gammas
2600
2700
2800
2900
3000
3100
3200
3300
3400
Northing

KIRKEEK'S TREASURE GROUND MAG LINE 4300E (2600N-3400N) : 13/2/80

020




KIRKEEK'S TREASURE GROUND MAG LINE 4200E : 13/2/80
2500N-3550N (FILE 36)
3550N-4600N (FILE 37)
Total Field - Gammas
63000
62000
61000
60000
59000
58000
57000
56000
55000
54000
53000
2700
2900
3100
3300
3500
3700
3900
4100
4300
4500
Kirkeek's Treasure Grid - Northing

APPENDIX II

C. R. A. EXPLORATION PTY. LIMITED

023

GEOCHEMICAL SAMPLE LEDGER D.P.C. No. B 0225

TENEMENT MT VICTOR E.L. 384 PROSPECT KIRKEEK'S TREASURE GEOLOGIST. T.E.M.

PLAN REFERENCE SAm 436 ANALYSED BY Fox LABORATORIES DATE DEC. 1979

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES		OBSERVATIONS
			ROCK		SOIL			
EAST	NORTH		BEDROCK	FLOAT		Au p.p.m.		
4406	2888	798001				0·07		Channel sampling Costean
	2890	2				<0·02		South to North. 2m. intervals
	2892	3				0·99		
	2894	4				0·04		
	2896	5				0·39		
↓	2898	6				0·28		↓ ↓
4396	2912	7				0·12		Channel sampling. Costean
4395	2914	8				0·14		South to North. 2m intervals
4395	2916	9				<0·02		
4394	2918	798010				↓		
4393	2920	1						
4393	2922	2						
4392	2924	3						
4392	2926	4						
4391	2928	5						
4390	2930	6						
4390	2932	7						
4389	2934	8						
4389	2936	9						
4388	2938	798020						
4387	2940	1						
4387	2942	2						
4386	2944	3						
4386	2946	4						
4385	2948	5						
4384	2950	6						
4384	2952	7						
4383	2954	8						
4383	2956	9				↓		↓ ↓
4284	2945	798030				0·42		Channel sampling costean. 2m interval.

C. R. A. EXPLORATION PTY. LIMITED

GEOCHEMICAL SAMPLE LEDGER D.P.C. No. BC228

TENEMENT MT VICTOR E.L. 584 PROSPECT KIRKLEK'S TREASURE GEOLOGIST T.E.M.

PLAN REFERENCE SAd 436 ANALYSED BY FOX LAB. DATE DEC 1979

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES		OBSERVATIONS
			ROCK		SOIL			
EAST	NORTH		BEDROCK	FLOAT		Au p.p.m.		
4284	2945	798031	✓			3.02		Channel sampling
4283	2947	2	✓			0.08		Costean South to North
4282	2949	3	✓			1.09		2.0 m. intervals.
4281	2951	798034	✓			0.07		" "
4175	2867.5	798035		✓		<0.02		Rock chip float traverse
	2870	6		✓		<0.02		2.5m intervals
	2872.5	7		✓		0.11		(Samples taken over 2.5m interval
	2875	8		✓		<0.02		
	2877.5	9		✓				
	2880	798040		✓				
	2882.5	1		✓				
	2885	2		✓				
	2887.5	3		✓				
	2890	4		✓				
	2892.5	5		✓		0.46		
	2895	6		✓		<0.02		
	2897.5	7		✓				
	2900	8		✓				
	2902.5	9		✓				
	2905	798050		✓				
4195	2910	1	✓			0.30		Channel sampling
	2912.5	2	✓			<0.02		2.5m intervals
	2915	3	✓					
	2917.5	4	✓					
	2920	5	✓			0.89		
4200	3010	6		✓		0.14		Rock chip float traverse
	3012.5	7		✓		<0.02		2.5m intervals.
	3015	8		✓				
	3017.5	9		✓				
	3020	798060		✓				

C. R. A. EXPLORATION PTY. LIMITED

025

GEOCHEMICAL SAMPLE LEDGER D.P.C. No. B0223

TENEMENT MT VICTOR E.L. 384 PROSPECT KIRKLEE'S TREASURE GEOLOGIST T.E.M.

PLAN REFERENCE SAa 436 ANALYSED BY FOX LAB. DATE DEC. 1979

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES		OBSERVATIONS
EAST	NORTH		ROCK		SOIL			
			BEDROCK	FLOAT		Au p.p.m.		
4200	3022·5	798061		✓		0·48		Rock chip float sampling
	3025	2		✓		<0·02		Sampling interval : 2·5m.
	3027·5	3		✓				
	3030	4		✓				
	3032·5	5		✓				
	3035	6		✓				
	3037·5	7		✓				
	3040	8		✓				
	3042·5	9		✓				
	3045	798070		✓				
	3047·5	1		✓				
	3050	2		✓				
	3052·5	3		✓				
	3055	4		✓				
	3057·5	5		✓				
	3060	6		✓				
	3062·5	7		✓				
	3065	8		✓				
	3067·5	9		✓				
	3070	798080		✓				
	3072·5	1		✓				
	3075	2		✓				
	3077·5	3		✓				
	3080	4		✓				
	3082·5	5		✓				
	3085	6		✓				
	3087·5	7	✓					Quartzite o/c
	3090	8	✓					Ditto
	3092·5	9	✓					"
↓	3095	798090	✓			↓		"

C. R. A. EXPLORATION PTY. LIMITED

026

GEOCHEMICAL SAMPLE LEDGER D.P.C. No. B0228

TENEMENT MT VICTOR E.L. 384 PROSPECT KIRKLEE'S TREASURE GEOLOGIST. T.E.M.

PLAN REFERENCE SAm 436 ANALYSED BY FOX LAB. DATE DEC. 1979

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES	OBSERVATIONS
EAST	NORTH		ROCK		SOIL		
			BEDROCK	FLOAT		Au p.p.m.	
H200	3097.5	798091	✓			<0.02	Quartzite o/c
	3100	2		✓			Float sampling
	3102.5	3		/			
	3105	4		/			
	3107.5	5		/		2.98	
	3110	6		/		<0.02	
	3112.5	7		/			
	3115	8		/			
	3117.5	9		/			
	3120	798100		/			
	3122.5	1		/			
	3125	2		/			
	3127.5	3		/			
	3130	4		/			
	3132.5	5		/			
	3135	6		/			
	3137.5	7		/			
	3140	8		/			
	3142.5	9		/			
	3145	798110		/			
	3147.5	1		/			
	3150	2		/			
	3152.5	3		/			
	3155	4		/			
	3157.5	5		/			
	3160	6		/			
	3162.5	7		/			
	3165	8		/			
	3167.5	9		/			
↓	3170	798120		/		↓	↓ ↓

C. R. A. EXPLORATION PTY. LIMITED

GEOCHEMICAL SAMPLE LEDGER D.P.O. No. B 0225

TENEMENT MT VICTOR E.L. 584. PROSPECT KIRKLEE'S TREASURE GEOLOGIST. T.E.M.

PLAN REFERENCE SAm 436 ANALYSED BY FOX LAB. DATE DEC. 1979

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES		OBSERVATIONS
			ROCK		SOIL			
EAST	NORTH		BEDROCK	FLOAT		Au p.p.m.		
4200	3172.5	798121		✓		<0.02		Float sampling
	3175	2		✓				2.5 m. intervals.
	3177.5	3		✓				
	3180	4		✓				
	3182.5	5		✓				
	3185	6		✓				
	3187.5	7		✓				
	3190	8		✓				
	3192.5	9		✓				
	3195	798130		✓				
	3197.5	1		✓				
	3200	2		✓				
	3202.5	3		✓				
	3205	4		✓				
	3207.5	5		✓		✓		
	3210	6		✓		0.07		
	3212.5	7		✓		<0.02		
	3215	8		✓				
	3217.5	9		✓				
	3220	798140		✓				
	3222.5	1		✓				
	3225	2		✓				
	3227.5	3		✓				
	3330	4		✓				
	3332.5	5		✓				
	3335	6		✓		✓		
	3337.5	7		✓		0.26		
✓	3340	8		✓		<0.02		✓ ✓
4000	2850	9		✓		<0.02		Float sampling. 5m interval.
4000	2855	798150		✓		<0.02		" "

C. R. A. EXPLORATION PTY. LIMITED

GEOCHEMICAL SAMPLE LEDGER D.P.C. No. B0228

TENEMENT MT VICTOR E.L. 584 PROSPECT KIRKLEE'S TREASURE GEOLOGIST T.E.M.

PLAN REFERENCE SAa 436 ANALYSED BY FOX LAB. DATE DEC. 1974

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES		OBSERVATIONS
			ROCK		SOIL			
EAST	NORTH		BEDROCK	FLOAT		Au p.p.m.		
4000	2860	798151		✓		<0.02		Float sampling - 5m intervals
	2865	2		/				
	2870	3		/				
	2875	4		/				
	2880	5		/				
	2885	6		/				
	2890	7		/				
	2895	8		/				
	2900	9		/				
	2905	798160		/				↓
	2910	1	✓					Quartzite o/c sampling
	5	2	/					
	2920	3	✓					
	5	4	/					
	2930	5	/					↓
	5	6		/		↓		Float sampling
	2940	7		/		6·16		
	5	8		/		0·14		
	2950	9		/		0·27		
	5	798170		/		<0.02		
	2960	1		/				
	5	2		/				
	2970	3		/				
	5	4		/				
	2980	5		/				
	5	6		/				
	2990	7		/				
	5	8		/				
	3000	9		/				
↓	3005	798180		/		↓		↓ ↓

029

C. R. A. EXPLORATION PTY. LIMITED

GEOCHEMICAL SAMPLE LEDGER D.P.C. No. B0225

TENEMENT MT VICTOR E.L. 584 PROSPECT KIRKLEE'S TREASURE GEOLOGIST T.E.M.

PLAN REFERENCE SAm 436 ANALYSED BY FOX LAB. DATE DEC. 1979

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES	OBSERVATIONS
EAST	NORTH		ROCK		SOIL		
			BEDROCK	FLOAT		Au p.p.m.	
4000	3010	798181		/		<0.02	Float sampling. 5m interval
	5	2		/			
	3020	3		/			
	5	4		/			
	3030	5		/			
	5	6		/			
	3040	7		/		↓	
	5	8		/		0.14	
	3050	9		/		<0.02	
	5	798190		/		0.84	
	3060	1		/		<0.02	
	5	2		/			
	3070	3		/			
	5	4		/			
	3080	5		/			
	5	6		/			
	3090	7		/			
	5	8		/			
	3100	9		/			
	5	798200		/			
	3110	1		/			
	5	2		/			
	3120	3		/			
	5	4		/			
	3130	5		/			
	5	6		/			
↓	3140	7		/		↓	↓
4425	2843	8		/		<0.02	Float sampling. 2m. intervals.
4425	2845	9		/		↓	↓
4425	2847	798210		/			

030

C. R. A. EXPLORATION PTY. LIMITED

GEOCHEMICAL SAMPLE LEDGER D.P.C. No. B 0228

TENEMENT MT VICTOR E.L. 584. PROSPECT KIRKLEE'S TREASURE GEOLOGIST. T.E.M.

PLAN REFERENCE SAm 436 ANALYSED BY FOX LAB. DATE DEC. 1979

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES	OBSERVATIONS
EAST	NORTH		ROCK		SOIL		
			BEDROCK	FLOAT		Au p.p.m.	
4425	2849	798211		/		<0·02	Float sampling. 2m intervals
	2851	2		/			
	2853	3		/			
	2855	4		/			
	2857	5		/			
	2859	6		/			
	2861	7		/			
	2863	8		/			
	2865	9		/			
	2867	798220	✓				Quartzite outcrop sampling
	2869	1	✓				
	2871	2	✓				
	2873	3	✓				
	2875	4	✓			122·0	
	2877	5	✓			4·34	
	2879	6		✓		19·98	Float sampling. Samples found to be contaminated by ore blasted from workings
	2881	7		/		1·31	
	2883	8		✓		50·2	
	2885	9		✓		1·05	
	2887	798230		✓		0·29	
4457	2882	1	/			<0·02	Costean channel sampling
4456	2885	2	✓			<0·02	3 m. intervals
4456	2888	3	/			0·11	
4455	2891	4	/			3·27	
4454	2894	5	/			0·38	
4454	2897	6	/			0·08	
4481	2988	7	✓			<0·02	Grab samples of pink-purple
4482	2987	8	✓				siltstone, from dump
4481	2986	9	✓				adjacent to small
4480	2987	799240	✓				pit.

C. R. A. EXPLORATION PTY. LIMITED

031

GEOCHEMICAL SAMPLE LEDGER D.P.O. No. B0228

TENEMENT MT VICTOR E.L. 584 PROSPECT KIRKLEE'S TREASURE GEOLOGIST T.E.M.

PLAN REFERENCE SAa 436 ANALYSED BY FOX LAB. DATE DEC. 1979

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES		OBSERVATIONS
			ROCK		SOIL			
EAST	NORTH		BEDROCK	FLOAT		Au p.p.m.		
4420	3030	798241	✓			<0.02		Quartzite outcrop.
4200	3000	798242			✓	0.16		-40# soil samples taken at
	3010	3			✓	<0.02		10 m intervals
	3020	4			✓			
	3030	5			✓			
	3040	6			✓			
↓	3050	798247			✓	↓		↓ ↓
4286	2976	798248	✓	✓		0.55		Quartzite sub-o/c 2m intervals
4286	2978	9	✓			10.28		Quartzite outcrop {Possible contam.
4286	2980	798250	✓			8.16		↓ ↓ ↓
4286	2982	798251	✓			<0.02		
4305	2888	798252	✓			<0.02		Quartzite outcrop 2m. intervals
4305	2890	3	✓					
4304	2892	4	✓					
4304	2894	5	✓					
4304	2896	6	✓					
4303	2898	7	✓					
4303	2900	8	✓					
4302	2902	9	✓					
4302	2904	798260	✓			↓		
4302	2906	1	✓			0.58		
4301	2908	2	✓			<0.02		
4301	2910	3	✓					
4300	2912	4	✓					
4300	2914	5	✓					↓ ↓
4480	2922	6						Quartzite o/c 2m. intervals
	2924	7				↓		
	2926	8				0.35		
	2928	9				<0.02		
↓	2930	798270				<0.02		↓ ↓

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032

GEOCHEMICAL SAMPLE LEDGER

D.P.C. No. B 0225 B 0323

TENEMENT MT VICTOR E.L. 584 PROSPECT KIRKLEE'S TREASURE GEOLOGIST. T.E.M.

PLAN REFERENCE SAm 436 ANALYSED BY FOX LABORATORIES DATE DEC. 1979

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES	OBSERVATIONS
			ROCK		SOIL		
EAST	NORTH		BEDROCK	FLOAT		Au p.p.m.	
4810	2824	798271	✓			<0·02	Grab samples from dump
		2	✓				adjacent to shaft.
		3	✓				
		4	✓				
4390	2894	5	✓			0·14	Profile sampling. 0·5 m intervals
		6	✓			0·47	Base to surface in pit
		7	✓			2·37	currently being mined
		8	✓			0·38	
		9	✓			3·24	
		798280	✓			0·25	
		1	✓			2·23	
		798282	✓			<0·02	
3020	3045	798301		✓		<0·04	Rock chip float and o/c
	3050	2		✓			sampling over Lookout Hill.
	3055	3		✓			5 m intervals
	3060	4		✓			
	3065	5	✓				
	3070	6	✓				
	3075	7	✓				
	3080	8	✓				
	3085	9	✓				
	3090	798310	✓				
	3095	1		✓			
	3100	2		✓			
	3105	3		✓			
	3110	4		✓			
	3115	5		✓			
	3120	6		✓			
	3125	7		✓			
	3130	798318		✓			

033

C. R. A. EXPLORATION PTY. LIMITED

GEOCHEMICAL SAMPLE LEDGER D.P.C. No. B 0323

TENEMENT MT VICTOR E.L. 384 PROSPECT KIRKLEE'S TREASURE GEOLOGIST T.E.M.

PLAN REFERENCE SAa 436 ANALYSED BY FOX LABORATORIES DATE JAN 1980

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES		OBSERVATIONS
EAST	NORTH		ROCK		SOIL			
			BEDROCK	FLOAT		Au p.p.m.		
3020	3135	798319		✓		<0.04		Lookout Hill float & o/c rock
	3140	798320		✓				chip sampling 5m intervals
	3145	1		✓				
	3150	2		✓				
	3155	3		✓				
	3160	4		✓				
	3165	5		✓				
	3170	6		✓				
	3175	7		✓				
	3180	8		✓				
	3185	9		✓				
	3190	798330		✓				
	3195	1		✓				Quartzite o/c
	3200	2	✓					Siltstone o/c
	3205	3	✓					
	3210	4	✓					
↓	3215	798335	✓			↓		
3640	2940	798336	✓			<0.04		Grab sample from dump of small pit
3640	2942	7	✓					Fe-qtz vein grab sample from dump
3640	2956	8	✓					Decomposed pink shale from dump
3640	2982	9	✓			↓		Pink shale from dump
3640	2986	798340	✓			0.25		Fe-qtz vein (thin) in old working
3640	3000	1	✓			0.24		Minor Fe-qtz vein sample
3680	3024	2	✓			<0.0		Qtz-Fe vein in quartzite

034

C. R. A. EXPLORATION PTY. LIMITED

GEOCHEMICAL SAMPLE LEDGER D.P.C. No. B 0244

TENEMENT MT VICTOR E.L. 584 PROSPECT KIRKLEE'S TREASURE GEOLOGIST T.E.M.

PLAN REFERENCE SAm 436 ANALYSED BY AMDEL DATE MAY 1980

GRID COORDINATES		SAMPLE No.	SAMPLE TYPE			ANALYSES		OBSERVATIONS
			ROCK		SOIL			
EAST	NORTH		BEDROCK	FLOAT		Au p.p.m.		
4387	2896	798955				97.0		Sample of high grade vein
4387	2896	6				20.5		Profile sampling (channel)
4387	2896	7				1.45		Floor to roof, north wall of
4387	2896	8				2.65		current working. 1.0m intervals

APPENDIX III

N.B.H. D.D.K. 1 - ADDITIONAL ASSAYS

Depth (m) From	Depth (m) To	Sample No.	Au (p.p.m.)
33.5	34.5	797801	<0.02
34.5	35.5	2	
35.5	36.5	3	
36.5	37.5	4	0.39
37.5	38.5	5	0.54
38.5	39.5	6	<0.02
39.5	40.5	7	<0.02
40.5	41.5	8	0.03
41.5	42.5	9	<0.02
42.5	43.5	797810	
43.5	44.5	1	
44.5	45.5	2	
45.5	46.5	3	
46.5	47.5	4	
47.5	48.5	5	
48.5	49.5	6	
49.5	50.5	7	
50.5	51.5	8	
51.5	52.5	9	
52.5	53.5	797820	
53.5	54.5	1	
54.5	55.5	2	
55.5	56.5	3	
56.5	57.5	4	
57.5	58.5	5	
58.5	59.5	6	
59.5	60.5	797827	0.03
60.5	61.5	797828	<0.02
61.5	62.5	9	
62.5	63.5	797830	
63.5	64.5	1	
64.5	65.5	2	
65.5	66.5	3	
66.5	67.5	4	
67.5	68.5	5	
68.5	69.5	6	
69.5	70.5	7	
73.8	74.8	8	
74.8	75.8	9	
75.8	76.8	797840	
76.8	77.8	1	
77.8	78.8	2	
78.8	79.8	3	
79.8	80.8	4	
80.8	81.8	5	
81.8	82.8	6	
82.8	83.8	7	
83.8	84.8	8	
84.8	85.8	9	
85.8	86.8	797850	
86.8	87.8	1	
87.8	88.8	2	
88.8	89.8	3	
89.8	90.8	797854	
90.8	91.8	797855	<0.02
91.8	92.8	6	
92.8	93.8	7	
93.8	94.8	8	
94.8	95.8	9	
95.8	96.8	797860	0.03
96.8	97.8	1	0.48
97.8	98.8	2	<0.02
98.8	99.8	3	
99.8	100.8	4	
100.8	101.8	5	
101.8	102.8	6	
102.8	103.8	7	
103.8	104.8	8	
104.8	105.8	9	
105.8	106.8	797870	

C.R.A. EXPLORATION PTY. LIMITED

DIAMOND DRILL CORE LOG

PROJECT KIRKEEK'S TREASURE

CO-ORDINATES 4200E 3013N AZIMUTH 353° mag DRILLERS D. C. DRILLING COMMENCED 23/12/79 DEPTH 193.15m HOLE No. 79/80 KTD1

RL COLLAR Diamond coring from surface INCLINATION -70° DRILL TYPE BOYLES 17A COMPLETED 6/2/80 CASING LEFT 0 DPO No(s) 0229 → 0234

DEPTH FROM(M)	DEPTH TO(M)	CORE REC (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au g/t Au	Cum. Rec. (cm)
0	1	0.8	HQ		Quartzite, massive, white	Minor Fe stain	797871	0	1	0.8	B.L.D	
1	2	0.85	"		Quartzite as above with 20cm thick silty clay interbed	Minor Fe-stained clay on fracture surfaces	2	1	2	0.85	"	58
2	3	0.5	"		Quartzite white, massive	Minor thin quartz-Fe stn. Trace py in	3	2	3	0.5	"	30
3	4	0.6	"		Quartzite as above	on a fracture surface.	4	3	4	0.6	"	
4	5	0.7	"		Ditto	Iron-stained clay bnd	5	4	5	0.7	"	31
5	6	0.9	"		"	fine quartz crystals	6	5	6	0.9	"	40
6	7	1.0	"		"	filling thin discontinuous	7	6	7	1.0	"	
7	8	1.0	"		"	fractures.	8	7	8	1.0	"	35
8	9	1.0	"		"	Ditto. Trace fine Au on a fracture	9	8	9	1.0	"	40
9	10	1.0	"		"	surface	797880	9	10	1.0	"	
10	11	1.0	"		Quartzite, as above with thin siltstone interbeds (~5cm)	Iron-stained clay and fine	1	10	11	1.0	"	40
11	12	1.0	"		Ditto	quartz crystals filling thin	2	11	12	1.0	"	
12	13	0.8	"		"	discontinuous fractures.	3	12	13	0.8	"	50
13	14	0.7	"		"	Clay filling in pits after pyrite.	4	13	14	0.7	"	50
14	15	0.9	"		"	Thin fractures as above	5	14	15	0.9	"	
15	16	1.0	"		Quartzite, white, feldspathic, sericitic	Trace pyrite on one fracture	6	15	16	1.0	"	55
16	17	1.0	"		Quartzite as above with thin siltstone interbeds	Minor thin clay-filled fractures	7	16	17	1.0	"	
17	18	1.0	"		Ditto	Minor diseem. iron oxide-filled	8	17	18	1.0	0.06	50
18	19	1.0	"		"	pits after pyrite	9	18	19	1.0	0.05	
19	20	1.0	"		Quartzite, cream-coloured, banded	Minor thin fractures	797890	19	20	1.0	B.L.D	50
20	21	1.0	"		Ditto	and pits	1	20	21	1.0	"	50
21	22	1.0	"		Ditto	Iron stain increasing	2	21	22	1.0	"	
22	23	1.0	"		Siltstone, pale cream to yellow, very weathered	Minor Fe-rich veins, thin	3	22	23	1.0	"	
23	24	1.0	"		Ditto	Ditto	4	23	24	1.0	"	
24	25	1.0	"		"	"	5	24	25	1.0	"	80
25	26	1.0	"		"	"	6	25	26	1.0	"	
26	27	1.0	"		"	"	7	26	27	1.0	"	
27	28	1.0	"		"	"	8	27	28	1.0	"	
28	29	1.0	"		Siltstone, grey, less oxidized than above, banded		9	28	29	1.0	"	
29	30	1.0	"		Ditto		797900	29	30	1.0	"	
30	31	1.0	"		Ditto		1	30	31	1.0	"	
31	32	1.0	"		Siltstone grey, arenaceous.		2	31	32	1.0	0.06	
32	33	1.0	"		Siltstone, grey, banded		3	32	33	1.0	B.L.D	
33	34	1.0	"		Ditto		4	33	34	1.0	"	
34	35	1.0	"		"		5	34	35	1.0	"	65
35	36	1.0	"		"		6	35	36	1.0	"	
36	37	1.0	"		"		7	36	37	1.0	"	
37	38	1.0	"		"	Minor thin iron-stained clay-filled fractures	8	37	38	1.0	"	85
38	39	1.0	"		" more arenaceous than above	parallel to bedding.	9	38	39	1.0	"	70
39	40	1.0	"		Siltstone, grey, banded, becoming increasingly arenaceous	Base of oxidation 40.0m	797910	39	40	1.0	"	
40	41	1.0	"		Quartzite, grey, with minor chlorite and graphite		1	40	41	1.0	"	70
41	42	1.0	"		Quartzite, pale grey, fine-grained, chloritic	Thin elongate, porphyroblasts of chlorite	2	41	42	1.0	"	80
42	43	1.0	"		Ditto	Elongation inclined 70° to core. Trace py	3	42	43	1.0	"	
43	44	1.0	"		"	parallel to bedding in thin sections. Thin	4	43	44	1.0	"	15
44	45	1.0	"		Quartzite as above with thin silty interbeds	transgressive gypsum-py-po veins. A	5	44	45	1.0	"	60
45	46	1.0	"		Ditto	20cm thick gtz vein at 42.7m	6	45	46	1.0	"	
46	47	1.0	"		Quartzite, pale grey, fine-grained	containing 5 to 10% pyrite	7	46	47	1.0	"	60
47	48	1.0	"		Ditto.	1-5% pyrite, fine grained dissem.	8	47	48	1.0	"	60
48	49	1.0	"		"	+ thin veining parallel to bedding	9	48	49	1.0	"	
49	50	1.0	"		"	Ditto	797920	49	50	1.0	"	60
50	51	1.0	HQ		Quartzite, grey, fine-grained	5% pyrite in thin veins parallel to	797921	50	51	1.0	B.L.D	60
51	52	1.0	"		Ditto	bedding, & dissem. Minor gypsum in thin veins	2	51	52	1.0	"	
52	53	1.0	"		"	~5% pyrite, mainly dissem	3	52	53	1.0	"	60
53	54	1.0	"		"	Ditto	4	53	54	1.0	"	60
54	55	1.0	"		"	"	5	54	55	1.0	"	
55	56	1.0	"		Quartz, fine-grained, grey with interbedded siltstone, grey, arenaceous	~4% pyrite, moderate to pervasive oxidation	6	55	56	1.0	"	60
56	57	1.0	"		Quartz as above	(Minor "leadfields (molybdenite?))	7	56	57	1.0	"	70
57	58	1.0	"		Quartz as above, with interbedded siltstone, grey, arenaceous	to joint oxidation. Minor impurities in thin	8	57	58	1.0	"	
58	59	1.0	"		Ditto	veins. 1-2% pyrite in interbedded zones.	9	58	59	1.0	"	
59	60	1.0	"		"	~5% sulphide, (py, po, (covellite?)) in	797930	59	60	1.0	"	70
60	61	1.0	"		"	gypsum-py veins & dissem.	1	60	61	1.0	"	
61	62	1.0	"		"	~5% py-po ± pyrrhotite increasing	2	61	62	1.0	"	
62	63	1.0	"		"	Ditto	3	62	63	1.0	"	
63	64	1.0	"		"	"	4	63	64	1.0	"	
64	65	1.0	"		"	"	5	64	65	1.0	"	70
65	66	1.0	"		"	5-10% (po + py)	6	65	66	1.0	"	70
66	67	1.0	"		"	Ditto	7	66	67	1.0	"	
67	68	1.0	"		"	~5% sulphide	8	67	68	1.0	"	70
68	69	1.0	"		"	Ditto	9	68	69	1.0	"	
69	70	1.0	"		"	"	797940	69	70	1.0	"	70
70	71	1.0	"		"	"	1	70	71	1.0	"	
71	72	1.0	"		"	"	2	71	72	1.0	"	70
72	73	1.0	"		"	"	3	72	73	1.0	"	
73	74	1.0	"		Siltstone, arenaceous, with fine grained quartzite inclusions	"	4	73	74	1.0	"	60
74	75	1.0	"		Ditto	"	5	74	75	1.0	"	
75	76	1.0	"		"	"	6	75	76	1.0	"	
76	77	1.0	"		"	"	7	76	77	1.0	"	60
77	78	1.0	"		" Quartzite interbeds up to 20cm thick.	"	8	77	78	1.0	"	50
78	79	1.0	"		Siltstone	5-8% sulphide including 1cm of py ~2cm wide	9	78	79	1.0	"	
79	80	1.0	"		Ditto	~5% sulphide (po + py)	797950	79	80	1.0	0.19	
80	81	1.0	"		Ditto with very thin quartzite interbeds.	Ditto	1	80	81	1.0	0.15	50
81	82	1.0	"		Ditto	"	2	81	82	1.0	0.06	
82	83	1.0	"		"	"	3	82	83	1.0	0.07	50
83	84	1.0	"		"	"	4	83	84	1.0	B.L.D	
84	85	1.0	"		"	~4% sulphide (py-po + pyrrhotite)	5	84	85	1.0	0.06	50
85	86	1.0	"		Siltstone	~4% sulphide (py + po)	6	85	86	1.0	B.L.D	60
86	87	1.0	"		Ditto	~6% sulphide (py + po)	7	86	87	1.0	"	70
87	88	1.0	"		"	Ditto	8	87	88	1.0	"	
88	89	1.0	"		"	~5% sulphide (py + po)	9	88	89	1.0	"	70
					"	"	797960	89	90	1.0	"	
90	91	1.0	"		"	"	1	90	91	1.0	"	
91	92	1.0	"		"	~4% sulphide (py + po) (dissem.)	2	91	92	1.0	"	70
92	93	1.0	"		"	Ditto	3	92	93	1.0	"	
93	94	1.0	"		"	"	4	93	94	1.0	"	
94	95	1.0	"		"	"	5	94	95	1.0	"	70
95	96	1.0	"		"	"	6	95	96	1.0	"	90
96	97	1.0	"		"	"	7	96	97	1.0	"	
97	98	1.0	"		"	~5% sulphide (py + po)	8	97	98	1.0	"	70
98	99	1.0	"		"	Ditto	9	98	99	1.0	"	60
99	100	1.0	"		"	"	797970	99	100	1.0	"	60
100	101	1.0	HQ		Siltstone, grey, argillaceous.	~5% sulphide (py + po)	797971	100	101	1.0	B.L.D	60
101	102	1.0	"		Ditto	Ditto	2	101	102	1.0	"	
102	103	1.0	"		" 102.4 to 102.6m: Argillaceous siltstone, highly folded or slumped	Slumped section contains ~20% pyrite	3	102	103	1.0	"	
103	104	1.0	"		Siltstone, grey	~5% sulphide (py, po)	4	102	104	1.0	"	50
104	105	1.0	"		Ditto	Ditto	5	104	105	1.0	"	
105	106	1.0	"		"	"	6	105	106	1.0	"	
106	107	1.0	"		"	"	7	106	107	1.0	"	50
107	108	1.0	"		Siltstone, grey, argillaceous, with soft sediment deformation.	5-8% sulphide (po ± py)	8	107	108	1.0	"	
108	109	1.0	"		Ditto	Ditto	9	108	109	1.0	"	
109	110	1.0	"		"	"	797990	109	110	1.0	"	
110	111	1.0	"		"	"	1	110	111	1.0	"	
111	112	1.0	"		"	"	2	111	112	1.0	"	
112	113	1.0	"		"	"	3	112	113	1.0	"	
113	114	1.0	"		"		4	113	114	1.0	"	80
114	115	1.0	"		"	~5% sulphide (po + py)	5	114	115	1.0	"	
115	116	1.0	"		"	Ditto	6	115	116	1.0	"	
116	117	1.0	"		"	"	7	116	117	1.0	"	
117	118	1.0	"		"	"	8	117	118	1.0	"	
118	119	1.0	"		"	"	9	118	119	1.0	"	
119	120	1.0	"		Siltstone, grey argillaceous	"	797990	119	120	1.0	"	50
120	121	1.0	"		Ditto	"	1	120	121	1.0	"	
121	122	1.0	"		"	"	2	121	122	1.0	"	50
122	123	1.0	"		"	"	3	122	123	1.0	"	60
123	124	1.0	"		"	"	4	123	124	1.0	"	
124	125	1.0	"		" Shows folding (or soft sediment deformation?)	"	5	124	125	1.0	"	
125	126	1.0	"		Siltstone, grey argillaceous	"	6	125	126	1.0	"	50
126	127	1.0	"		Ditto	"	7	126	127	1.0	"	
127	128	1.0	"		"	" , dissem + thin veining veins	8	127	128	1.0	"	30
128	129	1.0	"		"	Ditto	797999	128	129	1.0	"	45
129	130	1.0	"		"	"	798000	129	130	1.0	"	
130	131	1.0	"		" Shows folding (or soft sediment deformation?)	"	799001	130	131	1.0	"	
131	132	1.0	"		Siltstone, grey argillaceous	"	2	131	132	1.0	"	
132	133	1.0	"		Ditto	"	3	132	133	1.0	"	50
133	134	1.0	"		"	" + a thin carbonate-py vein (0.5cm)	4	133	134	1.0	"	30
134	135	1.0	"		"	~4% sulphide (po + py)	5	134	135	1.0	"	15
135	136	1.0	"		"	Ditto	6	135	136	1.0	"	
136	137	1.0	"		"	"	7	136	137	1.0	"	20
137	138	1.0	"		"	"	8	137	138	1.0	"	5
138	139	1.0	"		"	"	9	138	139	1.0	"	
139	140	1.0	"		"	"	799010	139	140	1.0	"	10
140	141	1.0	"		"	"	1	140	141	1.0	"	9
141	142	1.0	"		"	"	2	141	142	1.0	"	
142	143	1.0	"		"	"	3	142	143	1.0	"	5
143	144	1.0	"		"	"	4	143	144	1.0	"	5
144	145	1.0	"		"	"	5	144	145	1.0	"	5
145	146	1.0	"		"	"	6	145	146	1.0	"	10
146	147	1.0	"		"	"	7	146	147	1.0	"	5
147	148	1.0	"		Siltstone, graphitic, argillaceous, laminated	~4% sulphide (py ± po) in thin laminae	8	147	148	1.0	"	0
148	149	1.0	"		Ditto	parallel to bedding	9	148	149	1.0	"	0
149	150	1.0	"		"	Ditto	799020	149	150	1.0	"	0
150	151	1.0	HQ		Siltstone, graphitic, argillaceous, laminated	~4-8% sulphide (py + po) in thin	799021	150	151	1.0	B.L.D	0
151	152	1.0	"		Siltstone, graphitic, argillaceous. Bedding wavy to	laminae parallel to bedding	799022	151	152	1.0	"	0
152	153	1.0	"		convoluted	~4% sulphide (pyrite + thin	3	152	153	1.0	"	5
153	154	1.0	"		Ditto	laminae. Pyrrhotite is accumulated	4	153	154	1.0	"	5
154	155	1.0	"		Ditto	in slumped, contorted regions	5	154	155	1.0	"	5
155	156	1.0	"		Siltstone as above. Interbeds of more arenaceous sediment	~4% sulphide (py ± po)	6	155	156	1.0	"	20
156	157	1.0	"		tending to be calcareous/dolomitic.	Ditto	7	156	157	1.0	"	
157	158	1.0	"		Ditto	"	8	157	158	1.0	"	20
158	159	1.0	"		Ditto	"	9	158	159	1.0	"	
159	160	1.0	"		"	"	799030	159	160	1.0	"	20
160	161	1.0	"		"	Thin cross-cutting calcite veins	1	160	161	1.0	"	5
161	162	1.0	"		"	Ditto, ~1% sulphide	2	161	162	1.0	"	
162	163	1.0	"		"	Ditto	3	162	163	1.0	"	
163	164	1.0	"		"	"	4	163	164	1.0	"	5
164	165	1.0	"		"	"	5	164	165	1.0	"	20
165	166	1.0	"		"	"	6	165	166	1.0	"	
166	167	1.0	"		"	"	7	166	167	1.0	"	
167	168	1.0	"		"	"	8	167	168	1.0	"	20
168	169	1.0	"		"	"	9	168	169	1.0	"	10
169	170	1.0	"		Siltstone, calcareous, arenaceous	Sulphide decreasing	799040	169	170	1.0	"	5
170	171	1.0	"		Ditto	Ditto	1	170	171	1.0	"	
171	172	1.0	"		"	"	2	171	172	1.0	"	5
172	173	1.0	"		"	"	3	172	173	1.0	"	
173	174	1.0	"		"	Barren	4	173	174	1.0	"	5
174	175	1.0	"		"	"	5	174	175	1.0	"	10
175	176	1.0	"		"	"	6	175	176	1.0	"	
176	177	1.0	"		"	"	7	176	177	1.0	"	
177	178	1.0	"		"	"	8	177	178	1.0	"	10
178	179	1.0	"		"	"	9	178	179	1.0	"	5
179	180	1.0	"		"	"	799050	179	180	1.0	0.08	
180	181	1.0	"		"	"	1	180	181	1.0	B.L.D	
181	182	1.0	"		"	"	2	181	182	1.0	"	5
182	183	1.0	"		"	"	3	182	183	1.0	"	
183	184	1.0	"		"	"	4	183	184	1.0	"	5
184	185	1.0	"		"	"	5	184	185	1.0	"	
185	186	1.0	"		"	"	6	185	186	1.0	"	5
186	187	1.0	"		"	"	7	186	187	1.0	"	
187	188	1.0	"		"	"	8	187	188	1.0	"	5
188	189	1.0	"		"	"	9	188	189	1.0	"	
189	190	1.0	"		"	"	799060	189	190	1.0	"	5
190	191	1.0	"		"	"	1	190	191	1.0	"	0
191	192	1.0	"		"	"	2	191	192	1.0	"	0
192	193.15	1.15	"		"	"	799063	192	193.15	1.15	"	

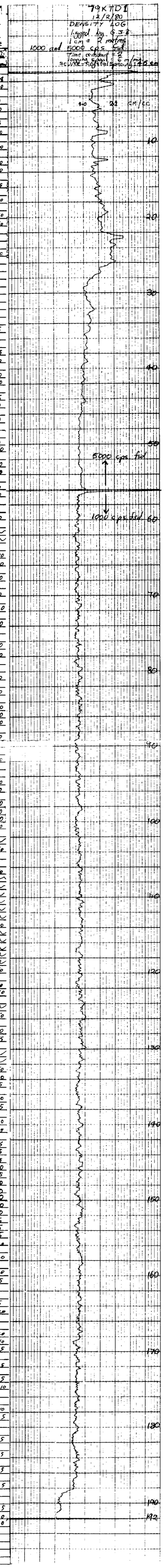
B.D.H. : 193.15m.

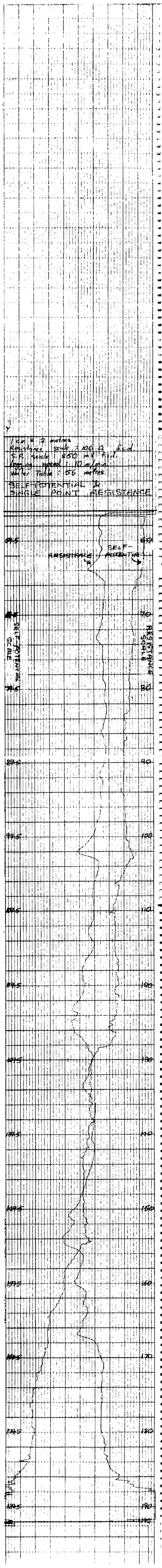
B.L.D = Below Limit of Detection
Limit of Detection = 0.01 g.p.m

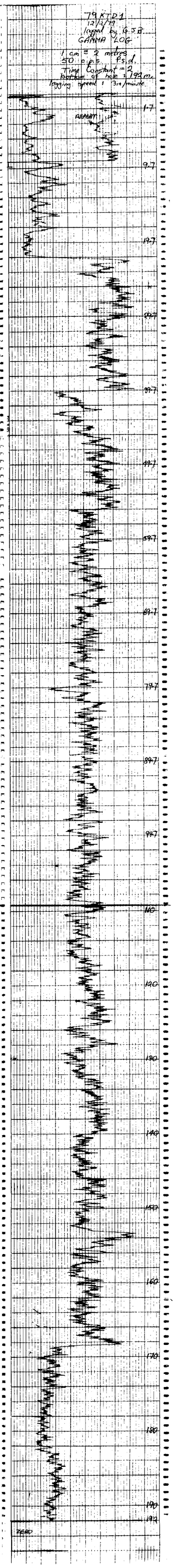
SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E. MAYER DATE FEB 1980

SHEET ____ OF ____







3847-1

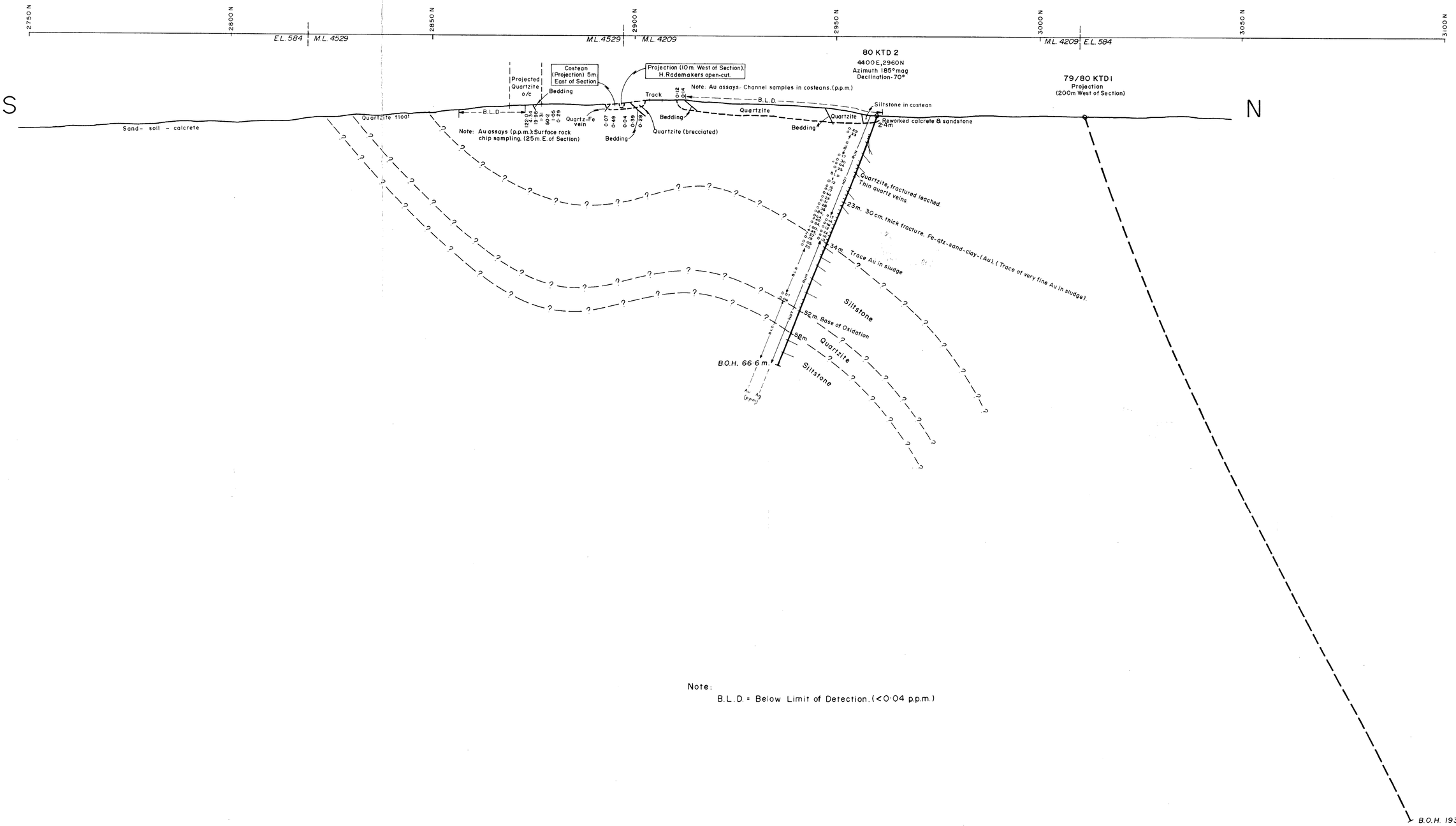

LOOKOUT HILL
MAIN OPEN CUT
Middle Shale
DRY DAM
LEGEND
Qc/s Quaterly calcrete, partially covered by aeolian sand
Qt High & low angle slope deposits Gravels consisting of quartzite, quartz, hematite ± calcrate & siltstone
Permanent Mark
Peg & Picket
Metal Pin & Picket
Picket
Shaft
Diggings
Lease or claim Pegs
Costean
ALL BEARINGS ON MAP GIVEN IN DEGREES EAST OF MN
200 Metres
3847-2
C.R.A. EXPLORATION PTY. LIMITED.
KIRKEEKS TREASURE MINE
LEASES & SURROUNDING
MT. VICTOR E.L. 584
PRELIMINARY GEOLOGY
1:250,000 MAP REF OLARY SI 54-2
Geol.: T.E. MAYER
Scale: 1: 2,500
Drawn: D.R.W.
Report Nº:
Date: FEB. 1980.
Plan Nº: SAa 436

3847-3

Revised: 13 May, 1980.

1:250,000 Map Sheet Ref.: OLARY SI 54-2.

C.R.A. EXPLORATION PTY. LIMITED.		
MT. VICTOR, E.L. 584 KIRKEEK'S TREASURE MINE, M.C. 1156. *Geological Cross-section, 4200 E, Looking West.* *(Showing Diamond Drill Hole: 79/80 KTD I).*		
Geol.: T.E. MAYER	Scale: 1:500	Report No:
Drawn: D.WEHR	Date: FEB., 1980.	Plan No.: SAa 385



Note:
B.L.D. = Below Limit of Detection. (<0·04 p.p.m.)

0 50 100 Metres

3847-4

C.R.A. EXPLORATION PTY. LIMITED.

KIRKEEK'S TREASURE MINE, M.L. 4209.
MT VICTOR, E.L. 584
Geological Cross-section showing 80KTD2
4400E, Looking West.

Geol: T.E.M.	Scale 1:500	Report N°
Drawn: J.C.R.	Date: FEB, 1980	Plan N° SAa 386

2900N | 2930N 3977E | 2950N | 3000N | 3050N | 3100N | 3150N

M.L. 4842 | M.L. 4244 | M.L. 4244 | E.L. 584

80 KTD 3
Azimuth 353° mag.
Declination 55°N

S

Overturned bedding (105°)

Track | Track | Track

Quartzite o/c and sub-o/c

Costean Projection
(15m W of section)

4m

Au (ppm) 1m Intervals.
0.10, 0.06, 0.07, 0.08

Siltstone

0.06, 0.05, 0.06, 0.05, 0.05, 0.06

23.5m

Quartzite outcrop and sub-outcrop

<0.04

Quartzite

48m

0.06, 0.05, 0.06, 0.07, 0.10

<0.04

60m

0.05

<0.04

65m

B.O.H. 67.0m

Siltstone

Quartzite

Arenaceous Siltstone

Quartzite outcrop and sub-outcrop

N

3847-5

C.R.A. EXPLORATION PTY. LIMITED.

MT. VICTOR, E.L. 584
KIRKEEK'S TREASURE MINE, M.L.4244.
Geological Cross-section, 3977E, Looking West.
(Showing Diamond Drill Hole: 80 KTD 3)

1:250,000 Map Sheet Ref OLARY SI54-2.

Geol.: T.E.M.	Scale: 1:500	Date: MAY 1980.
Drawn: S.J.B.	Report N°:	Plan N°: SAa 437

037

Ref. No. 10170

SUBJECT: SECOND QUARTERLY REPORT ON MOUNT VICTOR E.L.584, SOUTH AUSTRALIA FOR PERIOD ENDING 13.8.80

AUTHOR: T.E. MAYER

DATE: 11.9.1980

C.R.A. EXPLORATION PTY. LIMITED

SECOND QUARTERLY REPORT ON MOUNT VICTOR E.L. 584, SOUTH AUSTRALIA FOR PERIOD ENDING 13.8.80

AUTHOR: T.E. MAYER

SUBMITTED TO: D.R. KENNEDY

COPIES TO: C.R.A.E. LIBRARY
S.A.D.M.E.

DATE: 11.9.1980

CONTENTS

1. ABSTRACT

During the quarter ending 13.8.1980, work undertaken during the previous quarter was assessed and a percussion drilling program to test the near-surface potential in the vicinity of Kirkeek's Treasure Mine was planned.

2. CONCLUSIONS AND RECOMMENDATIONS

2.1 Diamond drilling at Kirkeek's Treasure has down-graded the prospect's potential.

2.2 Potential remains for a small near-surface ore body suitable for open-cut mining.

2.3 Shallow percussion drilling is recommended to test the near-surface potential.

3. INTRODUCTION

Mount Victor E.L. 584 was granted on 14th February, 1980, for a period of one year. Gold is the principal commodity being sought.

The principal prospect is Kirkeek's Treasure Mine. Nine Mineral Leases at Kirkeek's Treasure are excluded from the Exploration Licence. However, exploration is being undertaken over the Mineral Leases and the surrounding Exploration Licence.

This report discusses all exploratory work undertaken for the Kirkeek's Treasure Prospect during the quarter ending 13th August, 1980.

4. DISCUSSION

Assays from diamond drilling at Kirkeek's Treasure have been disappointing. Of the four holes drilled for C.R.A.E. only 80KTD2 intersected significant mineralisation, (sixteen metres, from 19 to 35 metres, averaged 1.0 p.p.m. gold, including one metre of 4.45 p.p.m. gold). In addition, check fire assays upgraded a near-surface interval, (4.0 to 7.0 metres), from 0.21 p.p.m. to 3.81 p.p.m. gold including one metre of 7.00 p.p.m. gold.

Subsequently, all available geochemical and (historical) mine grade data have been re-assessed and the following conclusions have been drawn:

i. Nearly all significant gold values have been recorded within the oxide zone at depths less than thirty metres.

ii. Grades are erratic along and across strike. Small high-grade zones have been recorded within several transgressive veins.

iii. Surface sampling cannot be correlated with grades at greater than two metres depth.

iv. The potential for a near-surface open-cuttable ore body has not been adequately tested.

It is planned to test the near-surface potential east of the main open-cut at Kirkeek's Treasure by shallow percussion drilling. It is anticipated that drilling will commence towards the end of September, 1980. Seventy-five ten metre holes are planned.

Tom Mayer

T.E. MAYER

REFERENCE

Mayer, T.E., 1980 Mount Victor E.L. 584. First Quarterly Report Period Ending 13th May, 1980.

KEYWORDS

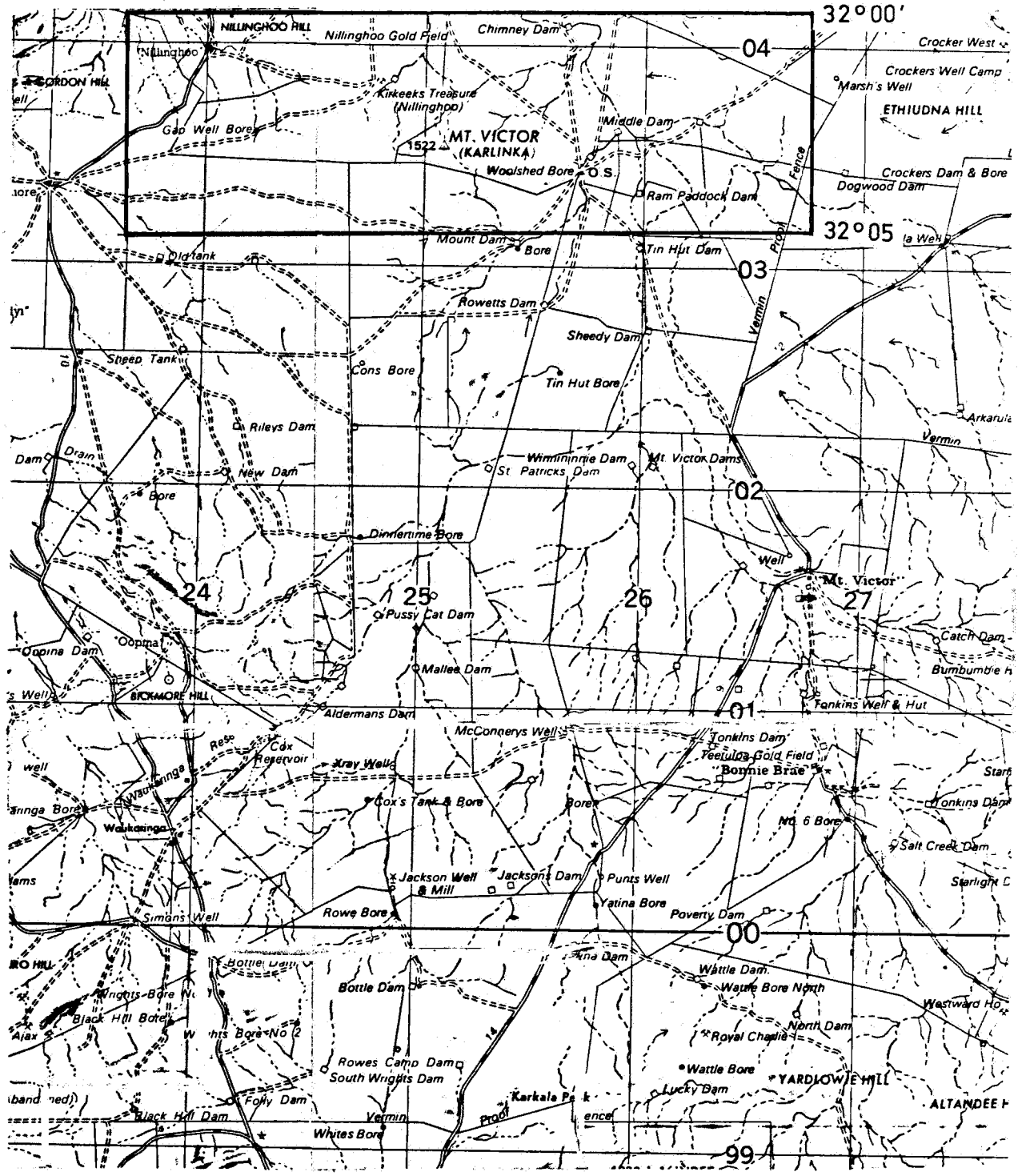
Location: Orroroo SI 54-1
Olary SI 54-2

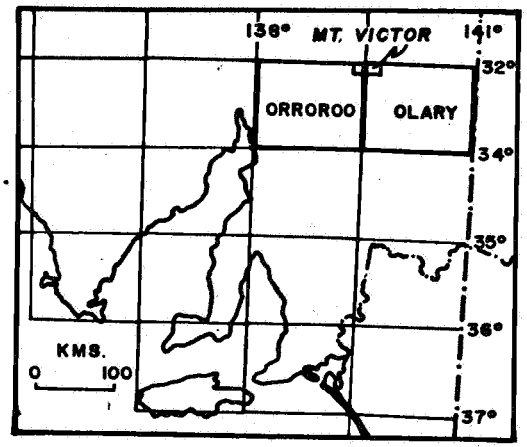
Diamond drilling, geochemistry, gold, percussion drilling, veins.

LIST OF PLANS

Plan No. SAa 302 Mount Victor E.L. 584 Location Diagram.

043





C.R.A. EXPLORATION PTY. LIMITED

MT. VICTOR E.L. 584

LOCATION MAP

189 sq. km.

Sheet Ref.: OLARY SI54-2 ORRORoo SI54-1

Geologist: T. E. M.	Scale 1:250,000	Drawn: D.W.
Report No: 10170	Date: 24-9-79	Plan No: SAa302.

044

C.R.A. EXPLORATION PTY. LIMITED.

THIRD QUARTERLY REPORT ON MOUNT VICTOR E.L. 584, SOUTH AUSTRALIA, FOR PERIOD ENDING 13TH NOVEMBER, 1980

AUTHOR: T.E. MAYER

DATE: DECEMBER 3, 1980

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S.A.D.M.E.

SUBMITTED BY: A.P. Kennedy for T. Mayer.

ACCEPTED BY: A.P. Kennedy

CONTENTS PAGE

1. ABSTRACT

The potential for a low-grade near-surface gold ore body suitable for open-cut extraction at Kirkeek's Treasure was tested by a shallow percussion drilling programme during October. Seventy-seven holes totalling 760.5 metres were drilled on M.L. 4209, M.L. 4529, and adjacent Mount Victor E.L. 584. Gold assays will be reported in the Fourth Quarterly Report.

2. CONCLUSIONS AND RECOMMENDATIONS

2.1 Diamond drilling at Kirkeek's Treasure has down-graded the prospect's potential (Mayer 1980a, Mayer 1980b).

2.2 The potential for a small near-surface ore body suitable for open-cut mining has been tested by a percussion drilling programme.

2.3 Upon receipt and statistical analysis of the gold assays for the percussion drill samples, the potential of the Kirkeek's Treasure Prospect and the surrounding region should be re-assessed.

3. INTRODUCTION

Mount Victor E.L. 584 was granted on 14th February, 1980, for a period of one year. Gold is the principal commodity being sought.

The principal prospect is Kirkeek's Treasure Mine. Nine Mineral Leases at Kirkeek's Treasure are excluded from the Exploration Licence.

This report discusses all exploration undertaken at Kirkeek's Treasure Prospect during the quarter ending 13th November, 1980.

4. PERCUSSION DRILLING

Seventy-seven shallow percussion holes were drilled at Kirkeek's Treasure Prospect during October, using an Ingersoll Rand Crawl-air drilling rig. Total depth was 760.5 metres. Hole depth ranged from three metres to 17.5 metres, (modal depth was 10 metres).

Holes were drilled at five metre intervals on three Grid north-south trending lines approximately 50 metres apart (on 4295E, 4350E, and 4400E on the Kirkeek's Treasure Grid). Fifty-five holes were drilled on M.L. 4209, eighteen holes on M.L. 4529 and four holes on E.L. 584.

Hole locations are marked on Plan No. SAa 628.

Samples of three to four kilograms were taken at one metre intervals and submitted to Comlabs for AAS gold analysis using a 30 gram sample weight following crushing and pulverising of the complete sample.

Drill logs and assays will be presented in the Fourth Quarterly Report on E.L. 584.

for

T.E. MAYER

REFERENCES

Mayer, T.E. 1980a — First Quarterly Report on Mount Victor E.L. 584, South Australia. For the Period Ending May 13, 1980.

Mayer, T.E. 1980b — Second Quarterly Report on Mount Victor E.L. 584, South Australia. For the Period Ending August 13, 1980.

KEYWORDS

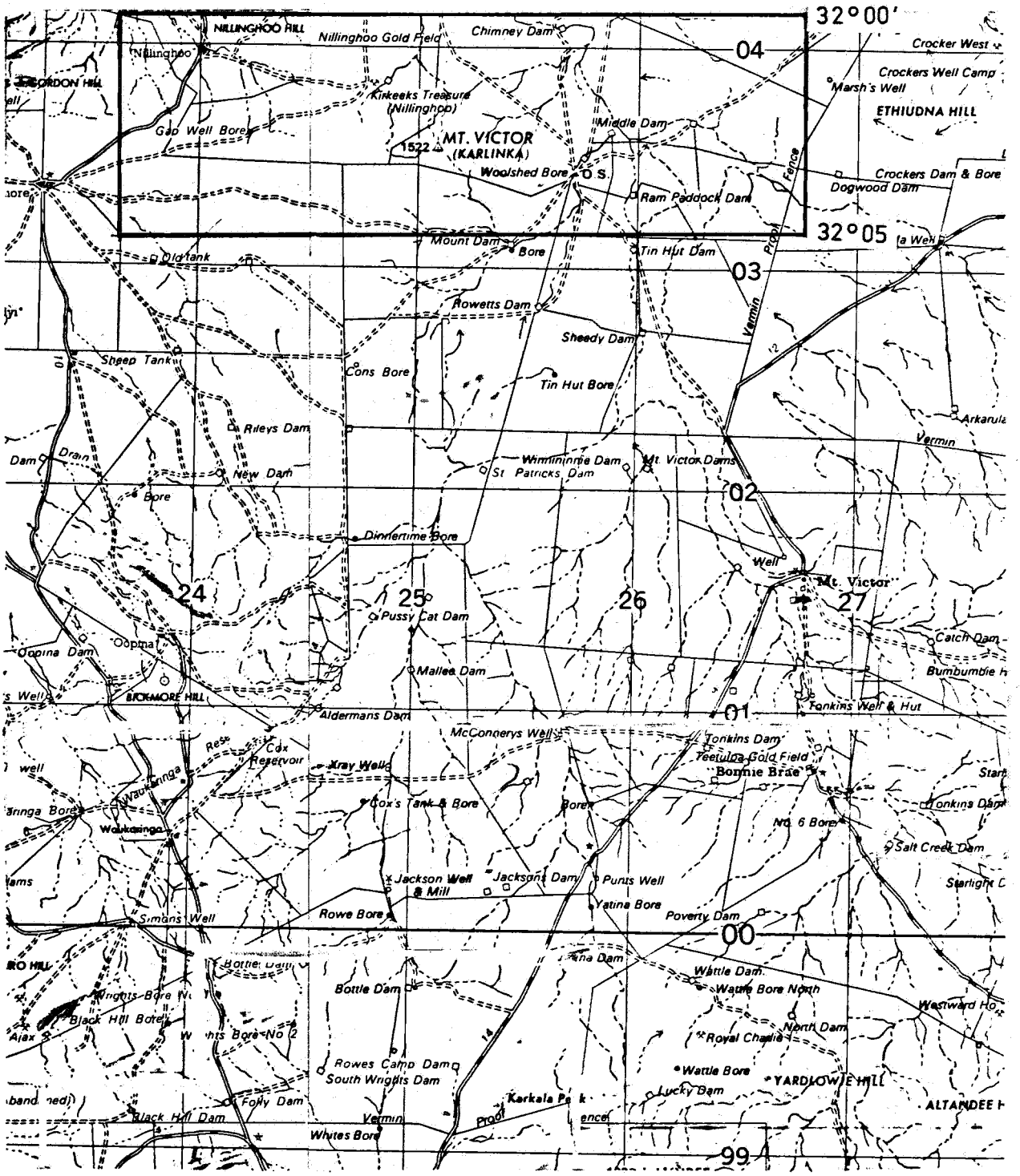
Location: Orroroo SI 54-1

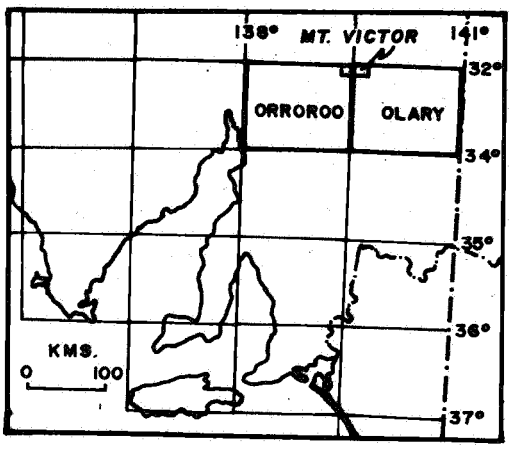
Olary SI 54-2

Percussion drilling, geochemistry, gold.

LIST OF PLANS

Plan No.		Scale
SAa 302	Mount Victor E.L. 584 Location Diagram	1:250,000
SAa 628	Mount Victor E.L. 584 Kirkeek's Treasure Mine and Leases. Shallow Percussion Drill Hole Locations	1:1000





C.R.A. EXPLORATION PTY. LIMITED

MT. VICTOR E.L. 584

LOCATION MAP

189 sq. km.

Sheet Ref.: OLARY SI54-2 ORRORoo SI54-1

Geologist: T.E.M.	Scale 1:250,000	Drawn: D.W.
Report No: 10170	Date: 24-9-79	Plan No: SAa302.

79 KTD 1
P.M. R.L. 100.00.
W.C.
"Bus Shack"
Sand
Qt
Scattered fe stained quartzite o/c & sub-o/c.
Quartzite float
Small Pit. Pink-purple siltstone & shale.
Shale & siltstone
MAIN OPEN CUT
Ruins of Tank
Chimney
Ruins
Conc. Tank
Arsenal
Ruins of circular iron cyaniding tanks.
chimney
Brecciated quartite with siltstone interbeds. Quartz-hem-(Au?) veins to 2m thick, dip approx. 50°S. Some very thin veins dip West.
Brecciated sandstone. Thin cross cutting quartz veins dip steeply S & SW.
Massive white quartzite.
Massive quartzite
Quartzite o/c.
Quartzite & quart o/c & sub o/c.
DRY DAM
Qc/s
Eroded Slime Dump
Galvanised Iron Shed
M.L. 4529
G.N.
T.N.
M.N.
6°
7°

80 MVP 1, 2, 3, 4
80 KTP 24, 25, 26, 27, 28, 29, 30, 34, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47
80 KTP 73, 72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49
80 KTP 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
80 KTD 2

3847-6

SCALE

Metres 0 20 40 60 80 100 120 140 160 180 200 Metres

Portion of Plan SAa 393

C.R.A. EXPLORATION PTY. LIMITED

MT. VICTOR E.L. 584

KIRKEEK'S TREASURE MINE & LEASES

SHALLOW PERCUSSION DRILL HOLE LOCATIONS

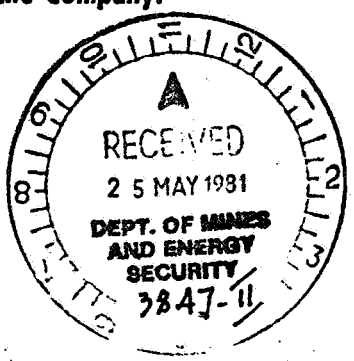
Ref.: OLARY S154-2	
Scale: 1:1,000.	Drawn: S.J.B.
Author: T.E.M.	Report No: 10170.
Date: DEC., 1980.	Plan No.: 628.

C.R.A. EXPLORATION PTY. LIMITED

Ref. No. 10170

SUBJECT: Final (Relinquishment) Report on Mount Victor E.L. 584, South Australia Including Fourth Quarterly Report For Period Ending February 13th, 1981

AUTHOR: T. E. Mayer.



DATE: April 7, 1981

C.R.A. EXPLORATION PTY. LIMITED

FINAL (RELINQUISHMENT) REPORT ON MOUNT VICTOR P.L. 584

SOUTH AUSTRALIA

INCLUDING FOURTH QUARTERLY REPORT

FOR PERIOD ENDING FEBRUARY 13TH, 1981

AUTHOR: T.E. MAYER

DATE: APRIL 7, 1981

COPIES TO: CRAE LIBRARY
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SUBMITTED BY: T. E. Mayer

ACCEPTED BY:

CONTENTS

1. Abstract

Gold exploration was undertaken in the vicinity of Kirkeek's Treasure Mine, (Nillinghoo Goldfield). Following a literature survey, and the acquisition of exploration rights over pre-existing Mining Leases, (through negotiated options or outright purchase), the Kirkeek's Treasure Prospect was surveyed and a topographic contour plan prepared.

Surface exploration, including limited geological mapping, a ground magnetometer survey and geochemical sampling, was followed by a four hole diamond drilling programme. Drill core gold assays were generally low. Parasitic folding of the host quartzite unit was interpreted from drill core.

Potential for a near-surface ore body was further tested by a 77 hole shallow percussion drilling programme. Gold assays were erratic and generally low.

Following the downgrading of the Kirkeek's Treasure Prospect it was decided not to proceed with exploration for similar structures, (which may be concealed by calcrete and sand dunes), on other parts of the Exploration Licence. Option agreements with Mining Lease-holders were terminated and it was decided to relinquish the Exploration Licence.

2. Conclusions

2.1 Diamond drilling downgraded the potential of the Kirkeek's Treasure Prospect.

2.2 Close-spaced shallow percussion drilling failed to define an ore zone of sufficient size to warrant further exploration in the immediate vicinity.

2.3 A ground magnetometer survey indicated that magnetics were of no use as a mapping tool at Kirkeek's Treasure Prospect.

2.4 Poor correlation between surface geochemical assays and drill sample assays indicated that surface geochemical sampling is of dubious value in this environment.

2.5 Although only approximately 25%, (500 metres of 2000 metres), of strike extent at Kirkeek's Treasure Prospect has been drill-tested, the negative results to date do not provide any encouragement for further along-strike exploration.

3. Recommendations

3.1 Discontinue exploration at Kirkeek's Treasure Prospect.

3.2 In view of the lack of encouragement from exploration at Kirkeek's Treasure Prospect, where outcrop and current and historical mine data provided some exploration controls, and taking into account that calcrete and aeolian sand conceal possible similar structures elsewhere on the Exploration Licence, it is recommended that no further exploration be undertaken over E.L. 584.

3.3 Relinquishment of E.L. 584 is recommended.

4. Introduction

Mount Victor E.L. 584 was granted on 14th February, 1980, for a period of one year and renewed for a further period of one year. Gold is the principal commodity sought.

Eight Mining Leases at Kirkeek's Treasure are excluded from the Exploration Licence. However, exploration over the Mining Leases has been reported since it formed an integral part of exploration on E.L. 584, and any further exploration on E.L. 584 was dependent on the success of exploration at Kirkeek's Treasure Prospect.

This report summarizes all exploration undertaken by C.R.A. Exploration Pty. Limited on E.L. 584 and contained Mining Leases, and discusses work undertaken during the quarter ending 13th February, 1981. Previous work was reported in the First, Second and Third Quarterly Reports (Mayer, 1980a, 1980b, 1980c).

5. History

Gold was discovered at Nillinghoo in January, 1894 by Henry Kirkeek. Various companies carried out mining by open-cut and underground methods between 1894 and 1916. Since 1916, mining has been erratic and small scale. Water supply has always been a major problem.

Recorded production to December 31st, 1913 was 2158 ounces, five pennyweights, 13 grains of gold bullion from 3231.5 tons of ore, including gold obtained by cyaniding 170 tons of tailings.

A more detailed history of Kirkeek's Treasure Mine is given (and references cited), in the First Quarterly Report (Mayer, 1980a).

6. Geology and Structure

The Mount Victor Exploration Licence covers a portion of an east-west trending anticlinal dome structure with Burra Group sediments in the core and overlying Yudnamutana Sub-group fluvioglacial sediments, (including the Holowilena Ironstone).

Kirkeek's Treasure Mine is situated on the northern limb of the anticline near its eastern closure. Mineralisation occurs within transgressive quartz-limonite-pyrite-hematite-(gold)-veins hosted by a feldspathic quartzite unit of the Burra Group. The quartzite unit is overlain by siltstones and shales and underlain by a thick dolomitic siltstone unit. Various orientations of mineralised quartz veins are observable within the mine area. The veins are interpreted as tension gashes within the competent quartzite unit. Generally, the veins do not penetrate the less competent overlying and underlying siltstones.

Diamond drilling has indicated the presence of a parasitic fold within the mine area. It is thought that tension gash veins are likely to parallel a radial cleavage about this structure.

Basement outcrop is limited since much of the Exploration Licence is covered by a calcrete horizon. The calcrete is ubiquitously covered by aeolian sands which, in places, form stable dunes.

7. Surface Exploration

7.1 Survey

An area 2.0 kilometres x 0.7 kilometres centred on Kirkeek's Treasure Mine was surveyed by contractors, (Steed and Rundle Pty. Ltd.). A grid was established and a topographic contour plan was prepared showing relevant surface features, lease boundary and grid peg locations and old and present day workings.

Original plan scale was 1:1000, but this was photoreduced to 1:2500 (Plan SAa 436).

7.2 Mapping

Mapping of the surveyed area was undertaken at 1:2500 scale (Plan SAa 436). Mapping was hampered by poor outcrop, (considerable quartzite float, sand, sandy soil and calcrete cover), and a general lack of clear bedding features. Within the main workings bedding is clearly observable, with well preserved sedimentary structures, (ripple marks and load casts). Average dip is 50° towards the north, but some steeper and overturned beds were also observed.

7.3 Geophysics

A ground magnetometer orientation survey was undertaken. Five south-north traverses were recorded, (at 3800E, 4000E, 4100E, 4200E, and 4300E on the Kirkeek's Treasure Prospect grid). Corrected profiles were appended to the First Quarterly Report (Mayer 1980a).

Results indicated that magnetics could not be used as a mapping tool at Kirkeek's Treasure Prospect.

7.4 Geochemical Sampling

Three hundred and twenty-eight geochemical samples, (average weight 2.5 kilograms), were collected on the Kirkeek's Treasure Prospect grid and analysed for gold. Most samples were analysed by Fox Laboratories, (method: roasting and aqua regia digestion of a 25 gram charge followed by organic extraction and A.A.S. finish). Geochemical ledgers were appended to the First Quarterly Report (Mayer 1980a).

Core from a previously drilled hole, (N.B.H. D.D.K. 1), was obtained from North Broken Hill Ltd. Previously unassayed sections of this hole were sampled over one metre intervals. Results were appended to the First Quarterly Report (Mayer 1980a).

8. Drilling

8.1 Diamond Drilling

Four diamond drill holes 79/80KTD1, 80KTD2, 80KTD3 and 80KTD4 were drilled at Kirkeek's Treasure Prospect. Locations and surface projections are marked on Plan No. SAa 436. Drill logs and assay results are appended (Appendix 1).

Of the four holes, only 80KTD2 intersected significant mineralisation. Sixteen metres, (from 19 to 35 metres), averaged 1.0 parts per million gold. This intersection includes one metre of 4.45 p.p.m. gold.

Seventy samples, including 36 samples from 80KTD2, were submitted to AMDEL for check analyses, (using Fire Assay/A.A.S. Finish Method, AMDEL code K4/2). Correlation with earlier assays, (Fox Laboratories Chemical/A.A.S. Finish Method), was generally very good. However, for 80KTD2 gold values were upgraded near the surface by AMDEL. Three metres, (from 4.0 to 7.0 metres), averaged 3.81 p.p.m. gold by fire assay, including one metre of 7.0 p.p.m. gold. Fox Laboratory assays averaged 0.21 p.p.m. gold over the same interval.

Three cross-sections (Plan Nos. SAa 385, 386 and 437) showing drill holes, assays, surface geology and interpreted geology are attached to this report.

8.2 Percussion Drilling

Seventy seven shallow percussion holes were drilled at Kirkeek's Treasure Prospect in October, 1980, using an Ingersoll Rand Crawl-air drilling rig. Total depth was 760.5 metres, (range, three to 17.5 metres; mode, 10 metres).

Holes were drilled at five metre intervals on three Grid north-south trending lines approximately 50 metres apart. Fifty five holes were drilled on M.L. 4209, eighteen holes on M.L. 4529 and four holes on E.L. 584.

Hole locations are marked on Plan No. SAa 628.

Samples weighing three to four kilograms, were taken at one metre intervals and submitted to Comlabs for gold analysis, (method: crushing and pulverising of complete sample followed by aqua regia digestion, organic extraction and A.A.S. finish).

Drill logs and assays are appended (Appendix 2).

T. E. Mayer.

References

Mayer, T.E. 1980a - First Quarterly Report on Mount Victor E.L. 584, South Australia, for the Period Ending May 13, 1980.

Mayer, T.E. 1980b - Second Quarterly Report on Mount Victor E.L. 584, South Australia, for the Period Ending August 13, 1980.

Mayer, T.E. 1980c - Third Quarterly Report on Mount Victor E.L.584, South Australia, for the Period Ending November 13, 1980.

Keywords

Location: Orroroo SI 54-1
Olary SI 54-2

(s)Burra Group; drilling - diamond, percussion; geochemistry - gold; geophysics - ground magnetics, down-hole density, self potential, resistance, gamma; mapping, quartzite, shale, siltstone, tension gashes, quartz, limonite.

List of Attachments

Appendix 1. Diamond Drill Logs and Assays.

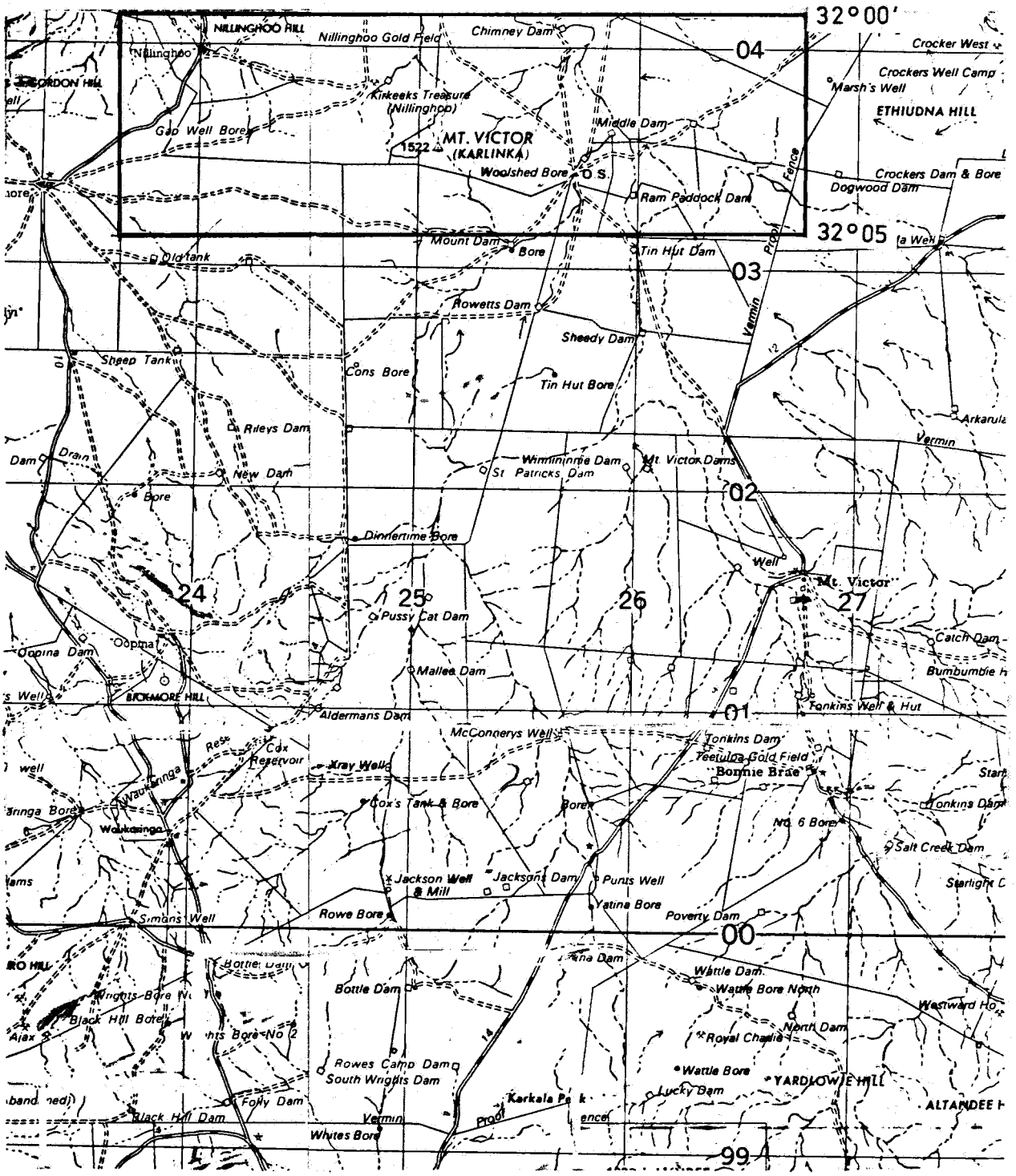
Appendix 2. Percussion Drill Logs and Assays.

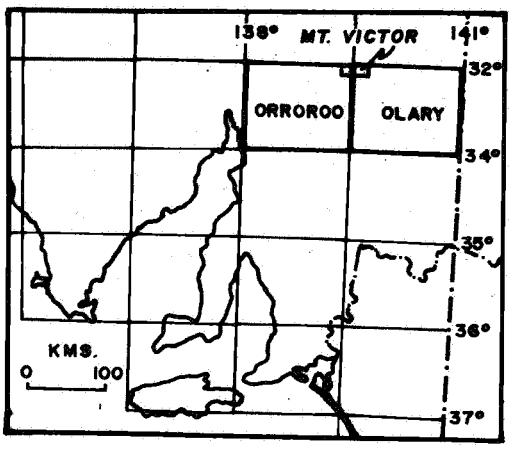
List of Plans

Plan No.	Title	Scale
SAa 302	Mount Victor E.L. 584, Location Diagram	1:250000
SAa 436	Kirkeek's Treasure Mine Leases and surrounding Mount Victor E.L. 584. Preliminary Geology	1:2500
SAa 385	Geological Cross-section, 4200E, Looking West	1:500
SAa 386	Geological Cross-section, 4400E, Looking West	1:500
SAa 437	Geological Cross-section, 3977E, Looking West	1:500
SAa 628	Mount Victor E.L. 584 Kirkeek's Treasure Mine and Leases. Shallow Percussion Drill Hole locations	1:1000

059

Plan No.	Title	Scale
SAa 327	Mount Victor E.L. 584. Kirkeek's Treasure Gold Mine. Main Shaft and Underground Workings. 3-D Reconstruction looking N.E.	1:200





C.R.A. EXPLORATION PTY. LIMITED

MT. VICTOR E.L. 584

LOCATION MAP

189 sq. km.

Sheet Ref.: OLARY SI54-2 ORRORO SI54-1

Geologist: T.E.M.	Scale 1:250,000	Drawn: D.W.
Report No: 10170	Date: 24-9-79	Plan No: SAa302.

APPENDIX I

DIAMOND DRILL LOGS AND ASSAYS

C.R.A. EXPLORATION PTY LIMITED

DIAMOND DRILL CORE LOG

PROJECT: KIRKEEK'S TREASURE

CO-ORDINATES: 4200E 3013N AZIMUTH: 353° mag DRILLERS: D.C. DRILLING COMMENCED: 23/12/79 DEPTH: 193.15m HOLE No. 79/80KTD1

RL COLLAR: Diamond coring from surface INCLINATION: -70° DRILL TYPE: BOYLES 17A COMPLETED: 6/2/80 CASING LEFT: 0 DPO No(s): 0229 → 0234

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	CORE DESCRIPTION	SPECIAL FEATURES (WEATH., ALTERATION, FRACTURING, VEINING, MINERALIZATION)	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)	
0	1	0.8	HQ	Quartzite, massive, white	Minor Fe stain	797871	0	1	0.8	B.L.D	
1	2	0.85	"	Quartzite as above with 20cm thick silty clay interbed	Minor Fe-stained clay on fracture surfaces	2	1	2	0.85	"	58
2	3	0.6	"	Quartzite, white, massive	Minor thin quartz-Fe vein. Trace fine Au	3	2	3	0.6	"	20
3	4	0.6	"	Quartzite as above	on a fracture surface.	4	3	4	0.6	"	
4	5	0.7	"	Ditto	Iron-stained clay bed	5	4	5	0.7	"	31
5	6	0.9	"	"	fine quartz crystals	6	5	6	0.9	"	40
6	7	1.0	"	"	filling thin transgressive	7	6	7	1.0	"	
7	8	1.0	"	"	fractures.	8	7	8	1.0	"	35
8	9	1.0	"	"	Ditto. Trace fine Au on a fracture	9	8	9	1.0	"	40
9	10	1.0	"	"	surface	797880	9	10	1.0	"	
10	11	1.0	"	Quartzite, as above with thin siltstone interbeds (~5mm)	Iron-stained clay and fine	1	10	11	1.0	"	40
11	12	1.0	"	Ditto	quartz crystals filling thin	2	11	12	1.0	"	
12	13	0.8	"	"	transgressive fractures.	3	12	13	0.8	"	50
13	14	0.3	"	"	Clay filling in pits after pyrite	4	13	14	0.3	"	50
14	15	0.9	"	"	Thin fractures as above	5	14	15	0.9	"	
15	16	1.0	"	Quartzite, white, feldspathic, sericitic	Trace paint-thin Au on one fracture	6	15	16	1.0	"	55
16	17	1.0	"	Quartzite as above with thin siltstone interbeds	Minor thin clay-filled fractures	7	16	17	1.0	"	
17	18	1.0	"	Ditto	Minor dissem. iron oxide-filled	8	17	18	1.0	0.06	50
18	19	1.0	"	"	pits after pyrite	9	18	19	1.0	0.05	
19	20	1.0	"	Quartzite, cream-coloured, banded	Minor thin fractures	797890	19	20	1.0	B.L.D	50
20	21	1.0	"	Ditto	and pits	1	20	21	1.0	"	50
21	22	1.0	"	Ditto	Iron stain increasing	2	21	22	1.0	"	
22	23	1.0	"	Siltstone, pale cream to yellow, very weathered	Minor Fe-rich veins, thin	3	22	23	1.0	"	
23	24	1.0	"	Ditto	Ditto	4	23	24	1.0	"	
24	25	1.0	"	"	"	5	24	25	1.0	"	80
25	26	1.0	"	"	"	6	25	26	1.0	"	
26	27	1.0	"	"	"	7	26	27	1.0	"	
27	28	1.0	"	"	"	8	27	28	1.0	"	
28	29	1.0	"	Siltstone, grey, less oxidised than above, banded		9	28	29	1.0	"	
29	30	1.0	"	Ditto		797900	29	30	1.0	"	
30	31	1.0	"	Ditto		1	30	31	1.0	"	
31	32	1.0	"	Siltstone, grey, arenaceous		2	31	32	1.0	0.06	
32	33	1.0	"	Siltstone, grey, banded		3	32	33	1.0	B.L.D	
33	34	1.0	"	Ditto		4	33	34	1.0	"	
34	35	1.0	"	"		5	34	35	1.0	"	65
35	36	1.0	"	"		6	35	36	1.0	"	
36	37	1.0	"	"		7	36	37	1.0	"	
37	38	1.0	"	"	Minor thin iron-stained clay-filled fractures	8	37	38	1.0	"	85
38	39	1.0	"	", more arenaceous than above	parallel to bedding.	9	38	39	1.0	"	70
39	40	1.0	"	Siltstone, grey, banded, becoming increasingly arenaceous	Base of oxidation 40.0m	797910	39	40	1.0	"	
40	41	1.0	"	Quartzite, grey, with minor chlorite and graphite		1	40	41	1.0	"	70
41	42	1.0	"	Quartzite, pale grey, fine grained, chloritic	Thin, elongate, porphyroblasts of chlorite	2	41	42	1.0	"	80
42	43	1.0	"	Ditto	Elongation inclined 40° to core. Trace po.	3	42	43	1.0	"	
43	44	1.0	"	"	parallel to bedding — thin veins. Thin	4	43	44	1.0	"	15
44	45	1.0	"	Quartzite as above with thin silty interbeds	transgressive gypsum-py-po veins. A	5	44	45	1.0	"	60
45	46	1.0	"	Ditto	20cm thick qtz vein at 42.7m	6	45	46	1.0	"	
46	47	1.0	"	Quartzite, pale grey, fine-grained	containing 5 to 10% pyrite	7	46	47	1.0	"	60
47	48	1.0	"	Ditto	4-5% pyrite, fine grained dissem.	8	47	48	1.0	"	60
48	49	1.0	"	"	+ thin veins parallel to bedding	9	48	49	1.0	"	
49	50	1.0	"	"	Ditto	797920	49	50	1.0	"	60
50	51	1.0	HQ	Quartzite, grey, fine-grained	5% pyrite in paper thin veins parallel to	797921	50	51	1.0	B.L.D	60
51	52	1.0	"	Ditto	bedding, & dissem. Minor gypsum in thin veins.	2	51	52	1.0	"	
52	53	1.0	"	"	~5% pyrite, mainly dissem.	3	52	53	1.0	"	60
53	54	1.0	"	"	Ditto	4	53	54	1.0	"	60
54	55	1.0	"	"	—	5	54	55	1.0	"	
55	56	1.0	"	Qtzite, fine-grained, grey with interbedded siltstone, grey, arenaceous	~4% pyrite and minor incipient oxidation	6	55	56	1.0	"	60
56	57	1.0	"	Qtzite as above	(Minor sulphides (arsenopyrite?))	7	56	57	1.0	"	70
57	58	1.0	"	Qtzite as above, with interbedded siltstone, grey arenaceous	Incipient oxidation. Minor [illegible] in thin	8	57	58	1.0	"	
58	59	1.0	"	Ditto	veins. 1-4% pyrite in [illegible] zones.	9	58	59	1.0	"	
59	60	1.0	"	"	~5% sulphides (py, po, (marcasite?)) in	797930	59	60	1.0	"	70
60	61	1.0	"	"	paper thin veins & dissem.	1	60	61	1.0	"	
61	62	1.0	"	"	~5% py+po. % pyrrhotite increasing	2	61	62	1.0	"	~
62	63	1.0	"	"	Ditto	3	62	63	1.0	"	~
63	64	1.0	"	"	"	4	63	64	1.0	"	
64	65	1.0	"	"	"	5	64	65	1.0	"	70
65	66	1.0	"	"	5-10% (po+py)	6	65	66	1.0	"	70
66	67	1.0	"	"	Ditto	7	66	67	1.0	"	
67	68	1.0	"	"	~5% sulphide	8	67	68	1.0	"	70
68	69	1.0	"	"	Ditto	9	68	69	1.0	"	
69	70	1.0	"	"	"	797940	69	70	1.0	"	70
70	71	1.0	"	"		1	70	71	1.0	"	
71	72	1.0	"	"	"	2	71	72	1.0	"	70
72	73	1.0	"	"	"	3	72	73	1.0	"	
73	74	1.0	"	Siltstone, arenaceous, with fine grained quartzite interbeds	"	4	73	74	1.0	"	60
74	75	1.0	"	Ditto	"	5	74	75	1.0	"	
75	76	1.0	"	"	"	6	75	76	1.0	"	
76	77	1.0	"	"	"	7	76	77	1.0	"	60
77	78	1.0	"	" Quartzite interbeds up to 20cm thick.	"	8	77	78	1.0	"	50
78	79	1.0	"	Siltstone	5-8% sulphide [illegible]	9	78	79	1.0	"	
79	80	1.0	"	Ditto	~5% sulphide (po+py)	797950	79	80	1.0	0.19	
80	81	1.0	"	Ditto with very thin quartzite interbeds.	Ditto	1	80	81	1.0	0.15	50
81	82	1.0	"	Ditto	"	2	81	82	1.0	0.06	
82	83	1.0	"	"	"	3	82	83	1.0	0.07	50
83	84	1.0	"	"	"	4	83	84	1.0	B.L.D	
84	85	1.0	"	"	[illegible]	5	84	85	1.0	"	60
85	86	1.0	"	Siltstone	~4% sulphide (py+po)	6	85	86	1.0	B.L.D	60
86	87	1.0	"	Ditto	~6% sulphide (py+po)	7	86	87	1.0	"	70
87	88	1.0	"	"	Ditto	8	87	88	1.0	"	
88	89	1.0	"	"	~5% sulphide (py+po)	9	88	89	1.0	"	70
89	90	1.0	"	"	Ditto	797960	89	90	1.0	"	
90	91	1.0	"	"		1	90	91	1.0	"	
91	92	1.0	"	"	~4% sulphide (py+po) (dissem)	2	91	92	1.0	"	70
92	93	1.0	"	"	Ditto	3	92	93	1.0	"	
93	94	1.0	"	"	"	4	93	94	1.0	"	
94	95	1.0	"	"	"	5	94	95	1.0	"	70
95	96	1.0	"	"	"	6	95	96	1.0	"	90
96	97	1.0	"	"	"	7	96	97	1.0	"	
97	98	1.0	"	"	~5% sulphide (py+po)	8	97	98	1.0	"	70
98	99	1.0	"	"	Ditto	9	98	99	1.0	"	60
99	100	1.0	"	"	"	797970	99	100	1.0	"	60
100	101	1.0	HQ	Siltstone, grey, argillaceous	~5% sulphide (py+po)	797971	100	101	1.0	B.L.D	60
101	102	1.0	"	Ditto	Ditto	2	101	102	1.0	"	
102	103	1.0	"	" 102.4 to 102.6m: Argillaceous siltstone, tightly folded or slumped	Slumped section contains ~20% pyrite	3	102	103	1.0	"	~
103	104	1.0	"	Siltstone, grey	~5% sulphide (py+po)	4	103	104	1.0	"	50
104	105	1.0	"	Ditto	Ditto	5	104	105	1.0	"	
105	106	1.0	"	"	"	6	105	106	1.0	"	
106	107	1.0	"	"	"	7	106	107	1.0	"	50
107	108	1.0	"	Siltstone, grey argillaceous, with soft sediment deformation	5-8% sulphide (po+py)	8	107	108	1.0	"	~
108	109	1.0	"	Ditto	Ditto	9	108	109	1.0	"	~
109	110	1.0	"	"	"	797980	109	110	1.0	"	~
110	111	1.0	"	"	"	1	110	111	1.0	"	~
111	112	1.0	"	"	"	2	111	112	1.0	"	~
112	113	1.0	"	"	"	3	112	113	1.0	"	~
113	114	1.0	"	"	"	4	113	114	1.0	"	80
114	115	1.0	"	"	~5% sulphide (po+py)	5	114	115	1.0	"	~
115	116	1.0	"	"	Ditto	6	115	116	1.0	"	~
116	117	1.0	"	"	"	7	116	117	1.0	"	~
117	118	1.0	"	"	"	8	117	118	1.0	"	~
118	119	1.0	"	"	"	9	118	119	1.0	"	~
119	120	1.0	"	Siltstone, grey argillaceous	"	797990	119	120	1.0	"	50
120	121	1.0	"	Ditto	"	1	120	121	1.0	"	
121	122	1.0	"	"	"	2	121	122	1.0	"	50
122	123	1.0	"	"	"	3	122	123	1.0	"	60
123	124	1.0	"	"	"	4	123	124	1.0	"	
124	125	1.0	"	" Shows folding (or soft sediment deformation?)	"	5	124	125	1.0	"	~
125	126	1.0	"	Siltstone, grey argillaceous.	"	6	125	126	1.0	"	50
126	127	1.0	"	Ditto	"	7	126	127	1.0	"	
127	128	1.0	"	"	", dissem + thin cutting veins	8	127	128	1.0	"	30
128	129	1.0	"	"	Ditto	797999	128	129	1.0	"	45
129	130	1.0	"	"	"	798000	129	130	1.0	"	
130	131	1.0	"	" Shows folding (or soft sediment deformation?)	"	799001	130	131	1.0	"	~
131	132	1.0	"	Siltstone, grey argillaceous	"	2	131	132	1.0	"	~
132	133	1.0	"	Ditto	"	3	132	133	1.0	"	50
133	134	1.0		"	4 ± a thin carbonate py vein (0.5cm)	4	133	134	1.0	"	30
134	135	1.0	"	"	~4% sulphide (po+py)	5	134	135	1.0	"	15
135	136	1.0	"	"	Ditto	6	135	136	1.0	"	
136	137	1.0	"	"	"	7	136	137	1.0	"	20
137	138	1.0	"	"	"	8	137	138	1.0	"	5
138	139	1.0	"	"	"	9	138	139	1.0	"	
139	140	1.0	"	"	"	799010	139	140	1.0	"	10
140	141	1.0	"	"	"	1	140	141	1.0	"	5
141	142	1.0	"	"	"	2	141	142	1.0	"	
142	143	1.0	"	"	"	3	142	143	1.0	"	5
143	144	1.0	"	"	"	4	143	144	1.0	"	5
144	145	1.0	"	"	"	5	144	145	1.0	"	5
145	146	1.0	"	"	"	6	145	146	1.0	"	10
146	147	1.0	"	"	"	7	146	147	1.0	"	5
147	148	1.0	"	Siltstone graphitic, argillaceous, laminated	~4% sulphide (py+po) in thin laminae	8	147	148	1.0	"	0
148	149	1.0	"	Ditto	parallel to bedding	9	148	149	1.0	"	0
149	150	1.0	"	"	Ditto	799020	149	150	1.0	"	0
150	151	1.0	HQ	Siltstone, graphitic, argillaceous, laminated	~4% sulphide (py+po) in thin	799021	150	151	1.0	B.L.D	0
151	152	1.0	"	Siltstone, graphitic, argillaceous. Bedding wavy to contorted	laminae parallel to bedding	799022	151	152	1.0	"	0
152	153	1.0	"		~4% sulphide. Pyrite in thin	3	152	153	1.0	"	5
153	154	1.0	"	Ditto	laminae. Pyrrhotite in [illegible]	4	153	154	1.0	"	5
154	155	1.0	"	Ditto	in slumped, contorted regions.	5	154	155	1.0	"	5
155	156	1.0	"	Siltstone as above. Interbeds of more arenaceous sediments	~4% sulphide (py+po)	6	155	156	1.0	"	20
156	157	1.0	"	tending to be calcareous/dolomitic.	Ditto	7	156	157	1.0	"	
157	158	1.0	"	Ditto	"	8	157	158	1.0	"	20
158	159	1.0	"	Ditto	"	9	158	159	1.0	"	
159	160	1.0	"	"	"	799030	159	160	1.0	"	20
160	161	1.0	"	"	Thin cross-cutting calcite veins	1	160	161	1.0	"	5
161	162	1.0	"	"	Ditto Minor sulphide	2	161	162	1.0	"	
162	163	1.0	"	"	Ditto	3	162	163	1.0	"	
163	164	1.0	"	"	"	4	163	164	1.0	"	5
164	165	1.0	"	"	"	5	164	165	1.0	"	20
165	166	1.0	"	"	"	6	165	166	1.0	"	
166	167	1.0	"	"	"	7	166	167	1.0	"	
167	168	1.0	"	"	"	8	167	168	1.0	"	20
168	169	1.0	"	"	"	9	168	169	1.0	"	10
169	170	1.0	"	Siltstone, calcareous, arenaceous	Sulphide decreasing	799040	169	170	1.0	"	5
170	171	1.0	"	Ditto	Ditto	1	170	171	1.0	"	
171	172	1.0	"	"	"	2	171	172	1.0	"	5
172	173	1.0	"	"	"	3	172	173	1.0	"	
173	174	1.0	"	"	Barren	4	173	174	1.0	"	5
174	175	1.0	"	"	"	5	174	175	1.0	"	10
175	176	1.0	"	"	"	6	175	176	1.0	"	
176	177	1.0	"	"	"	7	176	177	1.0	"	
177	178	1.0	"	"	"	8	177	178	1.0	"	10
178	179	1.0	"	"	"	9	178	179	1.0	"	5
179	180	1.0	"	"	"	799050	179	180	1.0	0.08	
180	181	1.0	"	"	"	1	180	181	1.0	B.L.D	
181	182	1.0	"	"	"	2	181	182	1.0	"	5
182	183	1.0	"	"	"	3	182	183	1.0	"	
183	184	1.0	"	"	"	4	183	184	1.0	"	5
184	185	1.0	"	"	"	5	184	185	1.0	"	
185	186	1.0	"	"	"	6	185	186	1.0	"	5
186	187	1.0	"	"	"	7	186	187	1.0	"	
187	188	1.0	"	"	"	8	187	188	1.0	"	5
188	189	1.0	"	"	"	9	188	189	1.0	"	
189	190	1.0	"	"	"	799060	189	190	1.0	"	
190	191	1.0	"	"	"	1	190	191	1.0	"	5
191	192	1.0	"	"	"	2	191	192	1.0	"	0
192	193.15	1.15	"	"	"	799063	192	193.15	1.15	"	0

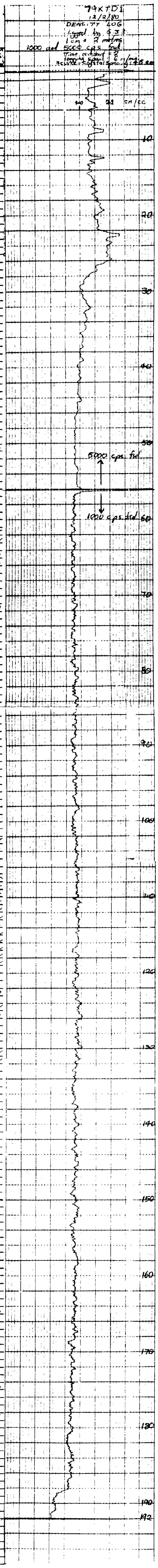
B.O.H. 193.15m.

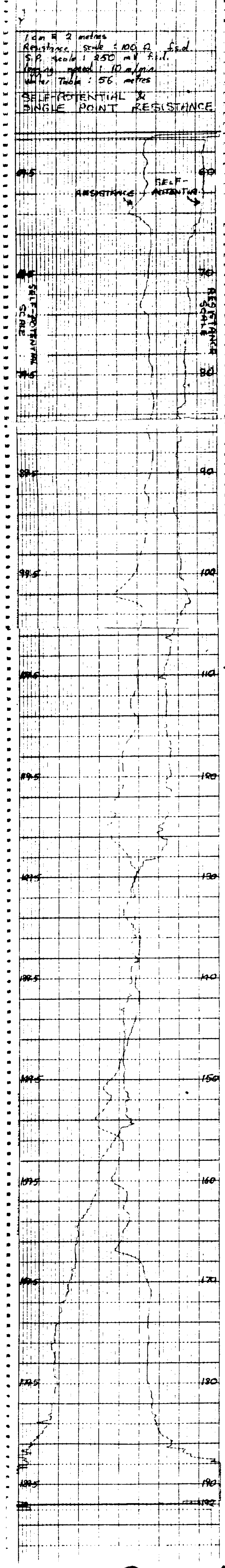
B.L.D: Below Limit of Detection
Limit of Detection = 0.04 p.p.m.

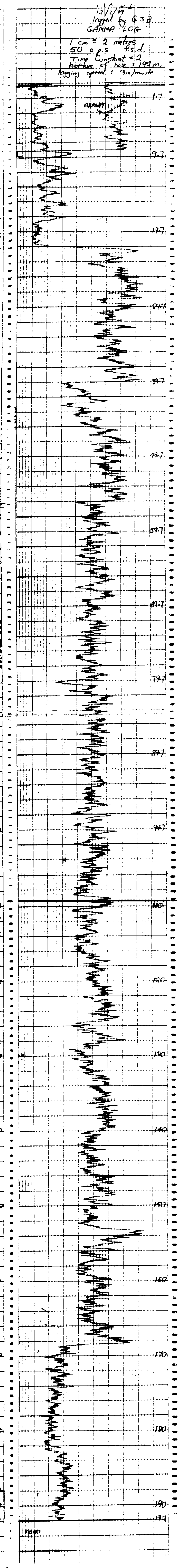
SUMMARY AND SPECIAL COMMENTS

LOGGED BY: T.E. MAYER DATE: FEB 1980

SHEET ____ OF ____







3847-7

DIAMOND DRILL CORE LOG

CO-ORDINATES 4400E 2960N | AZIMUTH 185° mag. | DRILLERS D.C. DRILLING | COMMENCED 10/2/80 | DEPTH 66.6m. | HOLE No. 80KTD2

RL COLLAR Cored from surface | INCLINATION -70° | DRILL TYPE BOYLES 17A | COMPLETED 20/2/80 | CASING LEFT 1.5m | DPO No(s) B0234, 235, 239

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	1. Au (p.p.m.)	2. Au (p.p.m.)	ASSAY VALUES Ag (p.p.m.)				Core recovery (days)
0	1	0.2	HQ		Unconsolidated gravels of reworked calcrete and		799064	0	2.4	0.5	B.L.D.						
1	2	0.2	"		white sandstone (iron-stained in part). No fine grained material recovered.												
2	3	0.7	"		From 2.4m. Sandstone, white, weathered fractured. Small pits after ?pyrite? Orange iron-stain in sandstone in part. (Lost core from 2.6m to 4.1m)	Thin quartz veins. Brown clay & sand infilling fractures	799065	2.4	3	0.6	B.L.D.	0.050					
3	4	0.6	"				6	3	4	0.6	"	0.135					
4	5	0.9	"		Qtz-sand-clay breccia, orange coloured.		7	4	5	0.9	"	4.15					
5	6	1.0	"		Sandstone, weathered, white fractured		8	5	6	1.0	0.29	0.28					25
6	7	1.0	"		Sandstone, weathered, white.	Qtz (white) vein, 25cm thick, shows	9	6	7	1.0	0.33	7.00					
7	8	1.0	"		Sandstone, white, fine-grained.	crystal growth. Vein is strongly resistive.	799070	7	8	1.0	B.L.D.	0.055					45
8	9	1.0	"		Ditto		1	8	9	1.0	"	0.020					50
9	10	1.0	"		"		2	9	10	1.0	"	0.005					60
10	11	1.0	"		" . White siltstone from 10.8m		3	10	11	1.0	"	0.020					
11	12	1.0	"		Silty sandstone, fractured.	Veined with qtz, + minor iron-stain.	4	11	12	1.0	"	0.045					60
12	13	1.0	"		Qtzite, white, fractured.	White clay infilling fractures.	5	12	13	1.0	0.17	0.065					
13	14	1.0	"		Ditto	Ditto	6	13	14	1.0	0.30	0.295					65
14	15	1.0	"		"	Fine qtz crystals and clay in fractures	7	14	15	1.0	B.L.D.	0.065					65
15	16	1.0	"		Qtzite, white, fractured	Ditto	8	15	16	1.0	0.25	0.290					
16	17	1.0	"		Ditto	"	4	16	17	1.0	B.L.D.	0.095					
17	18	1.0	"		"	"	799080	17	18	1.0	"	0.015					
18	19	1.0	"		"	"	1	18	19	1.0	"	0.060					65
19	20	1.0	"		" , slightly less fractured than above.	"	2	19	20	1.0	0.12	0.105					60
20	21	1.0	"		Ditto	"	3	20	21	1.0	0.15	0.190					65
21	22	1.0	"		"	"	4	21	22	1.0	0.17	0.230					
22	23	1.0	"		"	Iron-stained qtz-sand-clay filled vein	5	22	23	1.0	0.50	0.445					
23	24	1.0	"		Qtzite, white, fractured, Silty interbeds.	~30cm thick from 22.8 to 23.1m shows trace	6	23	24	1.0	0.25	0.270					60
24	25	1.0	"		Qtzite, white, fractured.	V. fine Au. Trace Au in sludge also.	7	24	25	1.0	0.31	0.325					
25	26	1.0	"		Ditto	Thin qtz veins with some qtz crystals.	8	25	26	1.0	0.28	0.385					
26	27	1.0	"		"		9	26	27	1.0	0.35	0.375					45
27	28	0.98	"		"		799090	27	28	0.98	0.84	0.81	0.17				
28	29	1.0	"		" to 28.6m. From 29.6m, extremely weathered white clay and sand with	Fracture infilling?	1	28	29	1.0	0.64	0.79	0.14				
29	30	1.0	"		some larger (gravel size) qtz fragments. Minor brecciated quartzite		2	29	30	1.0	3.40	2.30	0.16				
30	31	1.0	"		Brecciated quartzite and clay/sand mixture as above		3	30	31	1.0	0.84	0.83	0.12				
31	32	1.0	"		Ditto Minor iron-stain.		4	31	32	1.0	1.00	1.12	0.24				
32	33	1.0	"		Ditto		5	32	33	1.0	4.45	4.90	0.10				
33	34	1.0	"		"		6	33	34	1.0	2.57	2.45	0.13				
34	35	1.0	"		From 34.1m, Brown iron-stained siltstone.	(Trace Au in sludge)	7	34	35	1.0	0.19	0.145					
35	36	1.0	"		Ditto		8	35	36	1.0	0.05	0.025					75
36	37	1.0	"		Pale brown dolomitic siltstone with thin quartzite interbed.		9	36	37	1.0	0.20	0.295					80
37	38	1.0	"		Brown dolomitic siltstone		799100	37	38	1.0	B.L.D.	0.015					
38	39	1.0	"		Brown siltstone.		800101	38	39	1.0	"						
39	40	1.0	"		Siltstone, brown and grey.		2	39	40	1.0	"						
40	41	1.0	"		Ditto		3	40	41	1.0	"						75
41	42	1.0	"		" , with more arenaceous interbeds.		4	41	42	1.0	"						
42	43	1.0	"		Siltstone, grey, arenaceous in part		5	42	43	1.0	"						
43	44	1.0	"		Ditto		6	43	44	1.0	"						75
44	45	1.0	"		Siltstone, brown & grey, with more arenaceous interbeds.		800107	44	45	1.0	"						70
45	46	1.0	"		Ditto		800109	45	46	1.0	"						
46	47	1.0	"		Siltstone laminated, grey and brown limonitic. Sedimentary slumping in part		800110	46	47	1.0	"						
47	48		"				1	47	48		"						
48	49		"		Siltstone, laminated, grey and brown limonitic. Sediment. slump. in pt.		2	48	49		"						
49	50		"		Ditto		800113	49	50		0.07						
50	51		"		"		800114	50	51		0.06						
51	52		"		"	Base of oxidation, 52m.	5	51	52		B.L.D.						
52	53		"		Quartzite, fine-grained, silty, pale grey, dolomitic in part	Pyrite in paper-thin veins	6	52	53		"						
53	54		"		Quartzite, fine-grained, silty, pale grey.	Ditto	7	53	54		"						
54	55		"		Ditto	Ditto + disseminated pyrite	8	54	55		"						
55	56		"		"	Ditto	9	55	56		"						
56	57		"		"	"	800120	56	57		"						
57	58		"		"	"	1	57	58		"						
58	59		"		Siltstone, grey and yellow-brown limonitic.	(Incipient oxidation)	2	58	59		"						
59	60		"		Ditto	Ditto + minor unoxidised pyrite	3	59	60		"						
60	61		"		"	Ditto	4	60	61		"						
61	62		"		Siltstone, dark-grey, laminated	Pyrite in paper-thin veins parallel	5	61	62		"						
62	63		"		Ditto	to bedding	6	62	63		"						
63	64		"		"	Ditto	7	63	64		"						
64	65		"		"	"	8	64	65		"						
65	66		"		"	"	9	65	66		"						
66	66.6		"		"	"	800130	66	66.6		"						

Bottom of Hole 66.6m.

Nb. 1. Au determined by A.A.S. (FOX LABORATORIES)
2. Au determined by Fire/AAS finish (AMDEL)
B.L.D. = Below limit of detection (i.e. < 0.04 p.p.m.)

3847-8

DIAMOND DRILL CORE LOG

CO-ORDINATES 3477E 2930N | AZIMUTH 353° mag. | DRILLERS J.C. DRILLING | COMMENCED 28/2/80 | DEPTH 67m | HOLE No. 80KTD3

RL COLLAR Cored from surface | INCLINATION −55° | DRILL TYPE BOYLES 17A | COMPLETED 15/3/80 | CASING LEFT 0 | DPO No(s) B0053, B0237

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES 1. Au (ppm)	2. Au (ppm)	2. Ag (ppm)	Core Loss (degrees)
0	1	0·7	HQ		Qtzite, white, feldspathic; brown, iron stained in part.	Some clay infilled fractures.	800131	0	1	0·7	B.L.D.			
1	2	0·8	"		Qtzite, fine to medium grained, feldspathic, white and brown, fractured.		2	1	2	0·8	"			75
2	3	1·0	"		Qtzite, as above. Thin siltstone interbed.		3	2	3	1·0	"			
3	4	1·0	"		Quartzite, as above.		4	3	4	1·0	"			70
4	5	1·0	"		Siltstone, pale brown, arenaceous.		5	4	5	1·0	"			
5	6	1·0	"		Siltstone as above. From 5·5m, Quartzite interbed, fine to medium-		6	5	6	1·0	"			60
6	7	1·0	"		grained, feldspathic, white & brown. From 6·5m, Siltstone, brown, arenaceous.		7	6	7	1·0	"			
7	8	1·0	"		Siltstone, pale brown, arenaceous.		8	7	8	1·0	"			45
8	9	1·0	"		Ditto		9	8	9	1·0	"			
9	10	1·0	"		Siltstone, as above, wavy banded.		800140	9	10	1·0	"			25
10	11	1·0	"		Siltstone, ripple marked, sandy, pink-brown to pale brown.		1	10	11	1·0	0·1	<0·005		10
11	12	1·0	"		Ditto	Thin (5cm) qtz vein (at 11·8m) with small qtz crystals.	2	11	12	1·0	0·07	<0·005		10
12	13	1·0	"		Siltstone, arenaceous, pale brown.		3	12	13	1·0	0·03	0·005		35
13	14	1·0	"		Ditto		4	13	14	1·0	0·07	0·010		
14	15	1·0	"		"		5	14	15	1·0	0·09			30
15	16	1·0	"		"		6	15	16	1·0	B.L.D.			10
16	17	1·0	"		"		7	16	17	1·0	0·06			
17	18	1·0	"		Siltstone, ripple marked, sandy, pink-brown to pale brown.		8	17	18	1·0	0·06			10
18	19	1·0	"		Ditto		9	18	19	1·0	0·07			10
19	20	1·0	"		"		800150	19	20	1·0	0·06			15
20	21	1·0	"		"		1	20	21	1·0	0·07			40
21	22	1·0	"		Siltstone, arenaceous, light brown.		2	21	22	1·0	0·05			35
22	23	1·0	"		Siltstone, becoming more arenaceous.		3	22	23	1·0	0·04			40
23	24	1·0	"		Ditto. From 23·5m, Quartzite, medium grained, feldspathic, brown,	(Iron stained)	4	23	24	1·0	0·05			45
24	25	1·0	"		Quartzite, finer grained, white and brown.		5	24	25	1·0	0·06			45
25	26	1·0	"		Ditto	Thin clay-filled vein at 26·0m	6	25	26	1·0	B.L.D.	0·010	<0·05	50
26	27	1·0	"		"		7	26	27	1·0	"		<0·05	
27	28	1·0	"		"		8	27	28	1·0	"		0·17	
28	29	1·0	"		Quartzite, fractured, iron-stained in part.	Minor botryoidal hematite.	9	28	29	1·0	"	0·05	0·40	15
29	30	1·0	"		Siltstone, ripple marked, arenaceous, pale brown.		800160	29	30	1·0	"		0·10	15
30	31	1·0	"		Quartzite, ripple-marked, fractured. Thin siltstone interbed.		1	30	31	1·0	"		0·14	45
31	32	1·0	"		Quartzite, fractured.	Minor qtz veining with limonite & hematite	2	31	32	1·0	"	0·010	0·15	30
32	33	1·0	"		Quartzite, white to pale purple. Thin, silty interbeds.		3	32	33	1·0	"		0·12	30
33	34	1·0	"		Ditto		4	33	34	1·0	"		0·12	30
34	35	1·0	"		Qtzite, white. Thin silty interbeds.		5	34	35	1·0	"		<0·05	40
35	36	1·0	"		Ditto, fractured.		6	35	36	1·0	"		<0·05	
36	37	1·0	"		Qtzite, white, fractured.		7	36	37	1·0	"		<0·05	
37	38	1·0	"		Qtzite, as above. Thin silty interbeds.		8	37	38	1·0	"	0·010	0·22	45
38	39	1·0	"		Quartzite, as above.	Qtz-limonite veins up to 10cm thick.	9	38	39	1·0	"	0·010	<0·05	
39	40	1·0	"		Quartzite, as above. From 39·8m, Siltstone, arenaceous, brown.		800170	39	40	1·0	"	0·010	<0·05	60
40	41	1·0	"		Siltstone with quartzite interbeds.			40	41	1·0	"		<0·05	
41	42	1·0	"		Ditto			41	42	1·0	"		0·13	60
42	43	1·0	"		"			42	43	1·0	"		0·12	
44	45	1·0	"		Quartzite with siltstone (iron-rich in part) interbeds.			44	45	1·0	"		0·16	
45	46	1·0	"		Quartzite with clay (brown and black) interbeds.			45	46	1·0	"		0·12	50
46	47	1·0	"		Ditto			46	47	1·0	0·07		0·37	
47	48	1·0	"		Quartzite with weathered arenaceous mudstone interbeds.			47	48	1·0	0·06		0·28	
48	49	1·0	"		Siltstone, yellow-brown, arenaceous in part.			48	49	1·0	0·05		0·25	
49	50	1·0	"		Siltstone, yellow-brown to pale grey.		800180	49	50	1·0	0·04	0·010	<0·05	70
50	51	1·0	HQ		Siltstone, weathered, yellow-brown, clayey.		800181	50	51	1·0	0·06	0·005	0·15	80
51	52	1·0	"		Siltstone, as above, brown and black (manganiferous?)		2	51	52	1·0	0·07	0·010	0·24	75
52	53	1·0	"		Ditto		3	52	53	1·0	0·06	0·010	<0·05	
53	54	1·0	"		Siltstone, brown, wavy-banded.		4	53	54	1·0	0·10	0·010	<0·05	60
54	55	1·0	"		Siltstone, brown.		5	54	55	1·0	B.L.D.		0·22	70
55	56	1·0	"		Ditto		6	55	56	1·0	"		0·10	60
56	57	1·0	"		Ditto, black (manganiferous?) in part.		7	56	57	1·0	"		0·16	60
57	58	1·0	"		Siltstone, pale brown.		8	57	58	1·0	"		0·15	
58	59	1·0	"		Ditto		9	58	59	1·0	"		0·10	65
59	60	1·0	"		"		800190	59	60	1·0	"		0·20	
60	61	1·0	"		Quartzite, fine-grained, with siltstone interbeds.		1	60	61	1·0	"		<0·05	60
61	62	1·0	"		Ditto		2	61	62	1·0	"		0·14	
62	63	1·0	"		Quartzite, fine grained.	Iron oxide and sulphate on fractures.	3	62	63	1·0	"		0·25	50
63	64	1·0	"		Quartzite, as above	63·6–64·0m Qtz vein, minor iron.	4	63	64	1·0	0·05		0·11	45
64	65	1·0	"		Ditto. 64·7m: Base of oxidation (Sulphate and sulphide present)		5	64	65	1·0	B.L.D.		2·97	
65	66	1·0	"		Siltstone, arenaceous	Paper-thin pyrite and chlorite on	6	65	66	1·0	"		0·10	50
66	67	1·0	"		Ditto.	bedding planes and coating fracture	800191	66	67	1·0	"		0·16	50

Bottom of Hole: 67·0m

Nb. 1. Au determined by A.A.S. (FOX LABS)
2. Au determined by FIRE/AAS (AMDEL)
B.L.D. = Below limit of detection (ie <0·04 ppm)

3847-9

CRAE 117
PLAN No M 414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E. Mayer DATE

SHEET ____ OF ____

DRILL CORE LOG

CO-ORDINATES 4200E 2949N AZIMUTH — DRILLERS D.C. Drilling COMMENCED — DEPTH 45.6m HOLE No. 80KTDH

RL COLLAR Cored from surface INCLINATION Vertical DRILL TYPE Boyles 17A COMPLETED 31/3/80 CASING LEFT 0 DPO No(s) B0238, B0241

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)	Ag (ppm)	Au (ppm)	Core bedding (degrees)
0	1		HQ		Siltstone, yellow-brown.		797201	0	1		B.L.D	0.18		
1	2		"		Ditto		2	1	2		"	<0.05		
2	3		"		"		3	2	3		0.04	<0.05	0.005	
3	4		"		" From 3.6m, Qtzite.		4	3	4		B.L.D.	0.14	0.060	
4	5		"		Quartzite, heavily iron-stained	Abundant quartz-goethite	5	4	5		"	0.10	0.010	
5	6		"		Ditto	veins up to 10cm thick. Trace	6	5	6		"	0.18	0.040	
6	7		"		"	fine-grained visible go'd.	7	6	7		"	0.27	0.005	
7	8		"		"	Ditto	8	7	8		1.31	0.21	1.75	
8	9		"		"	"	9	8	9		B.L.D	0.19	0.025	
9	10		"		"	"	797210	9	10		"	<0.05	0.040	
10	11		"		"	"	1	10	11		"	0.18	0.010	
11	12		"		" From 11.5m, siltstone	"	2	11	12		"	0.12	0.010	
12	13		"		Siltstone, arenaceous.		3	12	13		"	0.12		
13	14		"		Ditto		4	13	14		"	<0.05		
14	15		"		"		5	14	15		0.04	<0.05		
15	16		"		" From 15.8m, quartzite, fine-grained, silty.	Minor thin quartz-goethite	6	15	16		B.L.D	0.11		
16	17		"		Quartzite, fine-grained, silty.	veins.	7	16	17		"	<0.05		
17	18		"		Ditto	Ditto	8	17	18		"	<0.05		
18	19		"		" From 18.5m. Qtzite, fine to medium-grained, feldspathic	"	9	18	19		"	0.16		
19	20		"		Quartzite, fine to medium-grained, feldspathic.	"	797220	19	20		"	0.19		
20	21		"		Ditto	"	1	20	21		"	0.14		
21	22		"		"	"	2	21	22		"	0.03		
22	23		"		"	"	3	22	23		"	0.32		
23	24		"		Quartzite, white, massive, very hard. Small pits (after py?)	Fine specks hematite. Minor thin	4	23	24		"	0.05		
24	25		"		Qtzite, cross-bedded in part, hard.	crosscutting qtz-goethite-hematite veins	5	24	25		"	0.06		65
25	26		"		Ditto, fractured and friable in part.		6	25	26		"	0.03		
26	27		"		Quartzite massive, white, pitted.	Thin fractures & qtz-goethite-hematite	7	26	27		"	0.48		
27	28		"		Ditto. Bedding visible in part.	veins. (Trace Au?) Minor sericite.	8	27	28		"	0.26		
28	29		"		Ditto		9	28	29		0.06	0.18		70
29	30		"		Ditto, with siltstone, gray & brown oxidized, interbed, 30cm thick		797230	29	30		0.04	0.27		75
30	31		"		Quartzite, fine to medium grained, bedded, pitted, grey, fractured		1	30	31		B.L.D	0.18		
31	32		"		in part. Thin silty interbeds. From 31.1m, more massive, heavily pitted	Thin quartz-goethite-hematite veins	2	31	32		"	0.16	0.010	
32	33		"		in part. From 32.6m, quartzite, fine-grained, pitted. Very thin	Ditto	3	32	33		"	0.13	0.015	
33	34		"		silty interbeds. Some white & brown clay infilling pits.	" with qtz crystals & limonite pseudomorphs.	4	33	34		"	0.06	0.010	80
34	35		"		Qtzite, medium-grained, massive, pitted as above.	Ditto. (Veins up to 2cm thick.)	5	34	35		"	0.22	0.010	
35	36		"		Quartzite, silty, white, fine-grained.		6	35	36		"	0.12		75
36	37		"		Ditto		7	36	37		"	0.06		
37	38		"		" becoming more arenaceous. Finely pitted.		8	37	38		"	0.05		80
38	39		"		Ditto, becoming brownish. From 38.2m, Shale, very weathered brown & grey.	Iron-stained.	9	38	39		"	0.05		
39	40		"		Shale, as above		797240	39	40		"	0.04		
40	41		"		Shale as above, becoming less weathered, grey.		797195	40	41		"	0.04		70
41	42		"		Siltstone, gypsey and brown, some iron-stain.	Thin veins of gypsum parallel to bedding	6	41	42		0.06	0.06		65
42	43		"		Ditto		7	42	43		0.04	0.05		
43	44		"		" , shows slumping in part. Thin brown iron-stained bands, parallel to bedding.	Minor pyrite on bedding planes	8	43	44		B.L.D	0.05		80
44	45		"		Siltstone, as above. Increasing ly reduced	Base of oxidation 44.0m (gradational)	9	44	45		"	0.08		
45	45.6		"		Ditto.		797200	45	45.6		0.37	0.16		
					Bottom of hole: 45.6m.									

38647-10

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T. E. Mayer. DATE

SHEET OF

APPENDIX II

PERCUSSION DRILL LOGS AND ASSAYS

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT KIRKEEK'S TREASURE M.L. 4209

CO-ORDINATES 4400E 2960N | AZIMUTH — | DRILLERS TRANSDRILL | COMMENCED 1/10/80 | DEPTH 10m | HOLE No. 80KTP1

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. CRAWL-AIR | COMPLETED 1/10/80 | CASING LEFT 0 | DPO No(s) B 0509

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Red Sand, calcrete, + pebbles of qtzite, qtz & hematite		844931	0	1		<0.05
1	2				Calcrete, qtz, qtzite, hematite, goethite.		2	1	2		0.1
2	3				Ditto	Sl. Trace Fe in pervad fines	3	2	3		0.2
3	4				Ditto	Sl trace Fe in pervad fines	4	3	4		0.15
4	5				White weathered shale + contam. of qtz, qtzite, lem.		5	4	5		<0.05
5	6				Ditto		6	5	6		
6	7				White v/wd clayey shale + downhole contam as above		7	6	7		
7	8				Ditto		8	7	8		
8	9				Shale as above. Minor contamination		9	8	9		
9	10				Ditto		844940	9	10		
					EOH 10m.						

38471-11

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT Nickel's Treasure M.L. 4209

CO-ORDINATES 4400E 2955N | AZIMUTH — | DRILLERS Transdrill | COMMENCED 1/10/80 | DEPTH 10m | HOLE No. 80KTP2

RL COLLAR — | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 1/10/80 | CASING LEFT 0 | DPO No(s) B0509

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Red sand, calcrete, qtz, qtzite hematite gravels		894941	0	1		<0.05
1	2				Calcrete, qtzite, qtz, hem. goethite pebbles		2	1	2		0.3
2	3				Ditto		3	2	3		<0.05
3	4				Ditto		4	3	4		0.1
4	5				Wthrd white clayey shale. Considerable contam		5	4	5		<0.05
5	6				Ditto " Ditto		6	5	6		0.05
6	7				" "		7	6	7		<0.05
7	8				Wthrd white clayey shale		8	7	8		
8	9				Ditto		9	8	9		
9	10				"		894950	9	10		
					EOH 10m.						

3847-12

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT Kirkeaks Treasure M.L. 4209

CO-ORDINATES 6400E 2950N | AZIMUTH – | DRILLERS Transdrill | COMMENCED 1/10/80 | DEPTH 6m | HOLE No. 80KTP3

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 1/10/80 | CASING LEFT 0 | DPO No(s) B0509

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red sand, calcrete + qtzite, qtz, hematite, goethite pebbly	Sl. trace Sn in panned fines	894951	0	1		<0.05
1	2				Calcrete, + qtzite qtz & minor hematite gravel		2	1	2		0.05
2	3				Ditto		3	2	3		0.05
3	4				White wthrd clayey shale + considerable contam.		4	3	4		<0.05
4	5				Ditto		5	4	5		↓
5	6				"		894956	5	6		
					Hole abandoned at 6.0m due to hole falling down hole						

3847-13

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion

DRILL CORE LOG

PROJECT Kirkeck's Treasure M.L. 4209

CO-ORDINATES 4400E 2945N | AZIMUTH - | DRILLERS Trans Drill | COMMENCED 1/10/80 | DEPTH 10m | HOLE No. 80 KTP4

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 1/10/80 | CASING LEFT 0 | DPO No(s) B0509

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete, red silt, minor qtzite & hematite gravel.		894957	0	1		0.1
1	2				Calcrete, white qtz, minor hem. & qtzite	Trace Au in fines.	8	1	2		0.05
2	3				Ditto		9	2	3		<0.05
3	4				Cream-coloured siltstone with calcrete contam. + minor qtz & qtzite		894960	3	4		
4	5				Ditto		1	4	5		
5	6				Cream-coloured siltstone	El. trace Au in fines	2	5	6		
6	7				Ditto		3	6	7		
7	8				V. soft wthrd white shale.		4	7	8		
8	9				White qtzite with minor hematite		5	8	9		
9	10				Ditto	trace Au in fines	894966	9	10		↓
						Ditto					
					EOH 10m						

3847-14

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Murkock's Treasure M.L 4209

CO-ORDINATES 4400E 2940N | AZIMUTH — | DRILLERS Transdrill | COMMENCED 1/10/80 | DEPTH 10m | HOLE No. BOHTP5

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 1/10/80 | CASING LEFT 0 | DPO No(s) B050g

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au p.p.m.
0	1				Calcrete. Minor white qtz		894967	0	1		0.1
1	2				Calcrete, white qtz and qtzite		8	1	2		0.1
2	3				White qtz, qtzite & minor hematite		9	2	3		<0.05
3	4				Ditto		894970	3	4		
4	5				Cream coloured siltstone & conglom		1	4	5		
5	6				Cream coloured sandy siltstone	White & clear qtz	2	5	6		
6	7				Ditto	Ditto (considerable)	3	6	7		
7	8				"	"	4	7	8		
8	9				Sandy zst	"	5	8	9		
9	10				Quartzite	"	894976	9	10		

BOH 10m

3847-15

CRAE 117

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

Percussion DRILL CORE LOG

PROJECT [illegible]

CO-ORDINATES 440cE 2935N | AZIMUTH – | DRILLERS Transdrill | COMMENCED 2/10/80 | DEPTH 10m | HOLE No. 80KTP6

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 2/10/80 | CASING LEFT 0 | DPO No(s) 80509

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Claysoil, calcrete qtz.	Minor Au in fines.	894977	0	1		<0.05
1	2				Calcrete, qtzite, qtz, hematite	Trace Au in fines	8	1	2		0.05
2	3				Qtzite, calcrete, minor hematite & qtz		9	2	3		<0.05
3	4				Qtzite, minor hematite & qtz		894980	3	4		<0.05
4	5				Ditto		1	4	5		
5	6				Qtzite, qtz, brown clay (veinfill or contam?)	Trace Au in fines	2	5	6		
6	7				White qtzite. Abundant white & clear qtz. Minor hem		6	6	7		
7	8				Ditto		4	7	8		0.15
8	9				"		5	8	9		0.45
9	10				"		894986	9	10		0.55
					BOH 10 m						

3847-16

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT Heitsch's Treasure M.L. 4209

CO-ORDINATES 4400E 2936N | AZIMUTH — | DRILLERS Transdrill | COMMENCED 2/10/80 | DEPTH 10m | HOLE No. 80 KTP7

RL COLLAR | INCLINATION -90° | DRILL TYPE L.R. Crawler | COMPLETED 2/10/80 | CASING LEFT 0. | DPO No(s) B0509

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au p.p.m.
0	1				Red-clay soil calcrete		894987	0	1		0.25
1	2				Calcrete to qtzite Minor Hematite		8	1	2		<0.05
2	3				Qtzite Minor calcrete		9	2	3		<0.05
3	4				Silty sandstone		894990	3	4		<0.05
4	5				Sugary-textured white qtzite with abundant clear white qtz		1	4	5		0.15
5	6				Qtzite		2	5	6		0.05
6	7				"		3	6	7		0.3
7	8				"		4	7	8		0.35
8	9				"		5	8	9		0.3
9	10				"		894996	9	10		0.3
					EOH 10m						

3847-17

CRAE 117
PLAN No M 414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

PROJECT Nirkeek's Treasure N.L. 4207

Percussion DRILL CORE LOG

CO-ORDINATES 4400E 2925N AZIMUTH - DRILLERS Transdrill COMMENCED 2/10/80 DEPTH 10m HOLE No. 80KTP8

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 2/10/80 CASING LEFT 0 DPO No(s) B0509

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red clay-soil, calcrete, minor qtz, qtite, hematite		894997	0	1		0.05
1	2				Calcrete minor qtz qtite, hematite		8	1	2		0.05
2	3				Qtite minor calcrete		9	2	3		<0.05
3	4				Qtite. Abundant qtz		895000	3	4		0.1
4	5				Ditto		887001	4	5		0.3
5	6				"		2	5	6		0.3
6	7				"		3	6	7		0.4
7	8				"		4	7	8		0.7
8	9				"		5	8	9		0.35
9	10				"		887006	9	10		0.3
					BOH 10m.						

3847-18

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkcock's Treasure P.L. 4209

CO-ORDINATES 4400E 2920N | AZIMUTH - | DRILLERS Traydrill | COMMENCED 2/10/86 | DEPTH 11m | HOLE No. 86KTP9

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 2/10/86 | CASING LEFT 0 | DPO No(s) B0509

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Brown silty-clay-soil, calcrete, white qtz.		887007	0	1		0.1
1	2				Calcreted qtz, qbicite Minor hematite		8	1	2		0.1
2	3				White qbicite, qtz, calcrete.		9	2	3		0.1
3	4				White qbicite and qtz. Minor calcrete contam.		887010	3	4		0.1
4	5				Ditto		1	4	5		0.15
5	6				"		2	5	6		0.25
6	7				White qbicite and qtz		3	6	7		0.3
7	8				Ditto		4	7	8		0.5
* 9	10				"		5	8	10		0.35
10	11				"		887016	10	11		0.25
					B.O.H. 11m (*Drillers can't count)						

3847-19

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY J.E.P. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT Kirkock's Treasure M.L. 4209

CO-ORDINATES 4400E 2915N AZIMUTH - DRILLERS TRANSDRILL COMMENCED 2/10/90 DEPTH 10m. HOLE No. 90KTP10

RL COLLAR _____ INCLINATION -90 DRILL TYPE I.R. Crawlair COMPLETED 2/10/90 CASING LEFT 0 DPO No(s) B 0509

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m)
0	1				Calcrete, minor silty soil, Minor quartz, quartzite		887017	0	1		0.25
1	2				Calcrete, Quartzite, Quartz		8	1	2		0.1
2	3				White quartzite, quartz, (Fe-stained in part)	Trace Au in panned fines	9	2	3		<0.05
3	4				Ditto		887020	3	4		0.2
4	5				" (Decreasing Fe)		1	4	5		0.2
5	6				White Quartzite, Quartz (~5% of sample is Fe-stained)	(Small sample)	2	5	6		0.25
6	7				Ditto	Ditto	3	6	7		0.3
7	8				"		4	7	8		0.3
8	9				"		5	8	9		0.2
9	10				"		887026	9	10		0.15
					B.O.H. 10m.						

3847-20

CRAE 117

SUMMARY AND _____ LOGGED BY T.E-M. DATE _____

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT Kirkeek's Treasure M.L. 4209

CO-ORDINATES 4400E 2910N | AZIMUTH - | DRILLERS Transdrill | COMMENCED 2/10/80 | DEPTH 10m | HOLE No. 80KTP11

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 2/10/80 | CASING LEFT 0 | DPO No(s) B0509, B0510.

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm.)
0	1				Calcrete, White qtzite qtz.	Trace Au in panned fines	887027	0	1		0.45
1	2				White qtzite, White & clear qtz, Minor calcrete	Ditto	8	1	2		<0.05
2	3				" " " " " " Minor hematite/goethite	"	9	2	3		0.2
3	4				Ditto	"	887030	3	4		0.2
4	5				"	"	1	4	5		0.2
5	6				"		2	5	6		0.2
6	7				"		3	6	7		0.2
7	8				White quartzite, White & clear qtz, Minor hematite		4	7	8		0.2
8	9				Ditto		5	8	9		0.2
9	10				"		6	9	10		0.2
					B.O.H. 10m.						

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CRAE 117

SUMMARY AND | LOGGED BY T.E.M. | DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkeek's Treasure M.L 4209

CO-ORDINATES 4400 E 2905N AZIMUTH — DRILLERS Transdrill COMMENCED 7/10/80 DEPTH 10m HOLE No. 80KTP12

RL COLLAR — INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 7/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au p.p.m.
0	1				Calcrete, qtzite, white & clear xtalline qtz. Minor soil + hematite		887057	0	1		1·75
1	2				Ditto		8	1	2		2·7
2	3				White & clear qtz xtals, qtzite. Minor calcrete. Fe increasing		9	2	3		1·75
3	4				Qtzite & qtz. Minor Fe oxide		887040	3	4		0·7
4	5				Ditto. (including large fragments of qtz xtal)		1	4	5		1·0
5	6				Qtzite & Qtz Minor Fe oxide		2	5	6		1·25
6	7				Ditto		3	6	7		1·4
7	8				"		4	7	8		1·4
8	9				"		5	8	9		0·65
9	10				"		887046	9	10		0·65
					EOH 10m						

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CRAE 117

SUMMARY AND

LOGGED BY T.E.M. DATE

Extension

DRILL CORE LOG

CO-ORDINATES 4400E 2900N | AZIMUTH — | DRILLERS Transdrill | COMMENCED 7/10/80 | DEPTH 17.5m | HOLE No. 80KTP 13

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 7/10/80 | CASING LEFT 0 | DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete, qtz + qtzite Minor Fe oxide		887047	0	1		0.3
1	2				Ditto	Trace Au in fines	8	1	2		0.25
2	3				Qtzite, qtz. Minor Lematite		9	2	3		0.2
3	4				Ditto		887050	3	4		0.15
4	5				"		1	4	5		0.2
5	6				Qtzite, qtz. Minor Lematite/goethite		2	5	6		0.2
6	7				Ditto		3	6	7		0.4
7	8				"		4	7	8		0.35
8	9				"		5	8	9		0.4
9	10				"		6	9	10		0.35
10	11				}		7	10	12*		0.15
11	12				} "		8	12	13		0.15
12	13				"		9	13	14		0.1
13	14				"		887060	14	15		0.05
14	15				"		1	15	16		0.05
15	16				" + minor white Zst		2	16	17		0.05
16	17				Yell-br Zst + downhole contam.		887063	17	17.5		0.05
17	17.5				Ditto + considerable "						

EOH 17.5m

* No. 1 2m interval, probably 10 - 12m but not certain. Drillers last count again.

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CRAE 117
PLAN No M 414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT Kirkeaks Treasure M.C. 4529

CO-ORDINATES 4400E 2895N | AZIMUTH - | DRILLERS Transdrill | COMMENCED 7/10/80 | DEPTH 17.5m | HOLE No. 80 KTP14

RL COLLAR | INCLINATION -90° | DRILL TYPE LR. Crawl-air | COMPLETED 7/10/80 | CASING LEFT 0 | DPO No(s) BOS10

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete, qtz qtzite. (Small sample. Poss. contam from Hardy's hole)		887064	0	1		0.2
1	2				White qtz, qtzite, calcrete. Minor Fe oxide.		5	1	2		0.15
2	3				Ditto.		6	2	3		0.1
3	4				Qtz, qtzite minor Fe oxide		7	3	4		0.1
4	5				Ditto		8	4	5		0.35
5	6				"		9	5	6		0.25
6	7				"		887070	6	7		0.3
7	8				"		1	7	8		0.3
8	9				"		2	8	9		0.15
9	10				Qtzite, qtz. Minor Fe oxide		3	9	10		0.15
10	11				Ditto.		4	10	11		0.1
11	12				"		5	11	12		<0.05
12	13				" . Minor yell-br. zst.		6	12	13		<0.05
13	14				Yell br. zst + considerable contam		7	13	14		<0.05
14	15				Ditto		8	14	15		0.05
15	16				"		9	15	16		<0.05
16	17				"	~10% Fe oxide	887080	16	17		<0.05
17	17.5				Brown zst	Ditto.	887081	17	17.5		<0.05
					EOH 17.5m						

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C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkeek's Treasure M.L 4369

CO-ORDINATES 4400 E 2890 N AZIMUTH — DRILLERS Tramdrill COMMENCED 7/10/80 DEPTH 10m HOLE No. 80KTP15

RL COLLAR — INCLINATION -90 DRILL TYPE I.R. Grant air COMPLETED 7/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete qtzite qtz. Minor Fe oxide		887082	0	1		0.25
1	2				White qtzite, calcrete, qtz. Minor Fe oxide		3	1	2		0.05
2	3				Qtzite, Fe stained in part. Minor qtz.		4	2	3		0.05
3	4				Ditto. Minor calcrete contamination		5	3	4		0.15
4	5				" " " "		6	4	5		0.05
5	6				Ditto. Minor zst		7	5	6		0.05
6	7				Ditto " " . Minor calcrete contam.		8	6	7		<0.05
7	8				White qtzite. Minor Fe oxide.		9	7	8		<0.05
8	9				Ditto		887090	8	9		0.15
9	10				Vein br zst with a lot of downhole contam.		887091	9	10		0.15

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CRAE 117
PLAN No.M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E-M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT [illegible]

CO-ORDINATES 4400E 2885N | AZIMUTH — | DRILLERS Transdrill | COMMENCED 7/10/80 | DEPTH 10m | HOLE No. 80KTP16

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 7/10/80 | CASING LEFT 0 | DPO No(s) B 0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete, red & white qtzite, qtz. Fe oxide		887092	0	1		0.3
1	2				Brown qtzite. Hematite. Minor qtz. Minor calcrete	Sl tr. Au in fines	3	1	2		0.2
2	3				" " " Qtz " "		4	2	3		0.15
3	4				Ditto		5	3	4		0.05
4	5				White qtzite with brown qtzite contam.		6	4	5		0.1
5	6				Ditto Minor Fe-stained zst?		7	5	6		0.1
6	7				Brown & white qtzite, Qtz, Hematite		8	6	7		0.1
7	8				Ditto		9	7	8		0.15
8	9				White qtzite + some brown qtzite, Qtz-hematite		887100	8	9		0.05
9	10				Ditto		887101	9	10		0.05

BOH 10m

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T. E. M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

PROJECT Kirkcock's Treasure M.L. 4529

Percussion DRILL CORE LOG

CO-ORDINATES 4400E 2880N AZIMUTH - DRILLERS Transdrill COMMENCED 7/10/80 DEPTH 10m HOLE No. 80KTP17

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawlair COMPLETED 8/10/80 CASING LEFT 0 DPO No(s) B.0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete, kaolinite, qtz. Minor hem. stain		887102	0	1		0.05
1	2				White & red kaolinite, qtz, calcrete.		3	1	2		<0.05
2	3				White kaolinite. Minor qtz. Minor Fe-stain		4	2	3		
3	4				Ditto		5	3	4		
4	5				White kaolinite. Minor Fe-stained kaolinite		6	4	5		
5	6				Ditto		7	5	6		
6	7				"		8	6	7		
7	8				" Minor hematite/goethite		9	7	8		
8	9				Ditto		887110	8	9		
9	10				"		887111	9	10		↓
					EOH 10m.						

3847-27

SUMMARY AND

LOGGED BY T.E.M. DATE

CRAE 117

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT Kirkeek's Treasure M.L. 4529

CO-ORDINATES 4400E 2875N AZIMUTH — DRILLERS Transdrill COMMENCED 8/10/80 DEPTH 10m HOLE No. 80KTP18

RL COLLAR — INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 8/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				calcrete, white & br qtzite		887112	0	1		<0.05
1	2				White qtzite, calcrete Minor Fe-stain.		3	1	2		
2	3				White qtzite Minor calcrete & Fe oxide.		4	2	3		
3	4				Ditto		5	3	4		
4	5				White qtzite - Minor Fe-stain		6	4	5		
5	6				Ditto		7	5	6		
6	7				" Minor white qtz		8	6	7		
7	8				" " " "		9	7	8		↓
8	9				Ditto + some iron oxide.		887120	8	9		0.05
9	10				Ditto Minor Zqt.		887121	9	10		<0.05
					EOH 10m.						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

PROJECT Kirkeek's Treasure M.L. 4529

Percussion DRILL CORE LOG

CO-ORDINATES 4400E 2870N AZIMUTH - DRILLERS Transdrill

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl air

COMMENCED 9/10/80 DEPTH 10m HOLE No. KTP 19

COMPLETED 9/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete white & Fe-stained qtzite, Minor clayey soil	Minor Hematite	887122	0	1		<0.05
1	2				White & Fe-stained qtzite. Calcrete contamination			1	2		
2	3				Ditto			2	3		
3	4				"			3	4		
4	5				" Calcrete cont decreasing			4	5		
5	6				Ditto			5	6		
6	7				"			6	7		
7	8				" Minor qtz			7	8		
8	9				Ditto		887130	8	9		
9	10				"		887131	9	10		
					BOH 10m						

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LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkcock's Treasure ML 4529

CO-ORDINATES 4400E 2865N | AZIMUTH – | DRILLERS Transdrill. | COMMENCED 9/10/80 | DEPTH 10m | HOLE No. BOKTP 20

RL COLLAR | INCLINATION –90° | DRILL TYPE I.R. Crawl-air | COMPLETED 9/10/80 | CASING LEFT 0 | DPO No(s) BOSIO

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete. Minor quartzite		887132	0	1		<0.05
1	2				White & brown (Fe-stained) quartzite. Calcrete contam.		3	1	2		
2	3				Ditto		4	2	3		
3	4				Yellow quartzite. Calcrete contam.		5	3	4		
4	5				Yellow & white quartzite. Quartz + hematite & minor calcrete contam.		6	4	5		
5	6				White qtzite containing fine grained heavy minerals. Yellow qtzite & calcrete contam		7	5	6		
6	7				Ditto		8	6	7		
7	8				Quartzite, qtz, hematite. Minor contam.		9	7	8		
8	9				Ditto		887140	8	9		
9	10				"		887141	9	10		✓
					EOH 10m						

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CRAE 117

SUMMARY AND

LOGGED BY T.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Porcussion DRILL CORE LOG

PROJECT Ritchie's Treasure M.L. 4727

CO-ORDINATES 4400E 2860N AZIMUTH - DRILLERS Transdrill COMMENCED 9/10/80 DEPTH 10 m HOLE No. 80KTP21

RL COLLAR INCLINATION -90 DRILL TYPE I. R. Crawl-air COMPLETED 9/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m)
0	1				Calcrete, qtzite, qtz, goethite hematite		887142	0	1		<0.05
1	2				Qtzite, qtz, goethite / hematite Calcrete contam		3	1	2		
2	3				Quartzite, quartz, goethite, hematite. Minor calcrete contam.		4	2	3		
3	4				Ditto		5	3	4		
4	5				"		6	4	5		
5	6				"		7	5	6		
6	7				"		8	6	7		
7	8				"		9	7	8		
8	9				"		887150	8	9		
9	10				"		887151	9	10		↓

BOH 10 m.

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T. E. M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkeek's Treasure M.L. 4529

CO-ORDINATES 4400E 2855N AZIMUTH - DRILLERS Transdrill COMMENCED 9/10/80 DEPTH 9m HOLE No. 80 KTP22

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 9/10/80 CASING LEFT 0. DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete Quartz, quartzite, Hematite, goethite		887152	0	1		<.005
1	2				Brown qzite, qtz, hematite, goethite Minor calcrete		3	1	2		
2	3				Ditto		4	2	3		
3	4				"		5	3	4		
4	5				"		6	4	5		
5	6				"		7	5	6		
6	7				Ditto. Minor yell-brown siltstone		8	6	7		
7	8				Yellow-Brown siltstone. Considerable contamination		9	7	8		
8	9				Ditto		887160	8	9		↓

EOH 9m
(Drillers can't count)
To be re-drilled.
See 80KTP48

3847-32

SUMMARY AND

LOGGED BY T.E.M. DATE

CRAE 117

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT: Nutkelk's Treasure M.L. 4209

CO-ORDINATES: 4382E 2903N
AZIMUTH: -
DRILLERS: Transdrill
COMMENCED: 9/10/80
DEPTH: 5·5m
HOLE No.: 80KTP23
RL COLLAR:
INCLINATION: -90°
DRILL TYPE: I.R. Crawl-air
COMPLETED: 9/10/80
CASING LEFT: 0
DPO No(s): B0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete white quartzite, qtz. Minor Fe-stain		887161	0	1		0.55
1	2				White quartzite. Minor Fe-stain		2	1	2		0.3
2	3				Ditto		3	2	3		0.1
3	4				White quartzite, Minor Fe stain. ~15% Quartz		4	3	4		<0.05
4	5				Ditto		5	4	5		0.15
5	5·5				"		887166	5	5·5		<0.05
					BOH 5·5m						

3847-33

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS:

LOGGED BY: T.E.M.
DATE:
SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

PROJECT Kirkcock's Treasure M.L. 4209

Percussion DRILL CORE LOG

CO-ORDINATES 4295E 2975N AZIMUTH - DRILLERS Transdrill COMMENCED 9/10/80 DEPTH 7m HOLE No. 80KTP24

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 9/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red sand, red, brown & white qtzite. Calcrete		887170	0	1		<0.05
1	2				Red, brown & yellow quartzite Goethite, hematite, Qtz, Calcrete		1	1	2		
2	3				Fe-stained quartzite, goethite, hematite, quartz		2	2	3		
3	4				Ditto		3	3	4		
4	5				"		4	4	5		
5	6				"		5	5	6		
6	7				"		887176	6	7		
					Hole collapsed & abandoned at 7m						

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CRAE 117

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkeek's Treasure M.L. 4209

CO-ORDINATES 4295E 2970N AZIMUTH - DRILLERS Transdrill COMMENCED 9/10/80 DEPTH 10m HOLE No. 80KTP25

RL COLLAR ____ INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 9/10/80 CASING LEFT 0 DPO No(s) B 05.0

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red sand, calcrete, quartzite		887177	0	1		<0.05
1	2				Ditto		8	1	2		
2	3				Yellow shale		9	2	3		
3	4				Ditto		887180	3	4		
4	5				Brown shale		1	4	5		
5	6				Ditto		2	5	6		
6	7				Quartzite, qtz, goeth. lem.		3	6	7		
7	8				Ditto		4	7	8		
8	9				"		5	8	9		
9	10				"		887186	9	10		✓
					EOH 10m						

3847-35

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkett's Treasure M.L. 4209

CO-ORDINATES 4295E 2965N AZIMUTH - DRILLERS Transdrill COMMENCED 9/10/80 DEPTH 10m HOLE No. 80KTP25

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 9/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppb)
0	1				Red sand, calcrete, quartzite (Prob. in contain.)		887187	0	1		<5
1	2				Ditto		8	1	2		
2	3				Calcrete, yellow shale, minor quartzite		9	2	3		
3	4				Yellow & white shale		887190	3	4		
4	5				Cream-coloured shale. Minor quartzite & quartz.		1	4	5		
5	6				Ditto with increasing qtzite & quartz.		2	5	6		
6	7				Red & brown quartzite, quartz. Minor goethite & hematite		3	6	7		
7	8				Ditto		4	7	8		
8	9				11	Minor pyrite	5	8	9		
9	10				11	Ditto	887196	9	10		↓

3847-36

CRAE 117

SUMMARY AND

LOGGED BY J.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkock's Treasure M.L. 4209

CO-ORDINATES 4295E 296ON | AZIMUTH - | DRILLERS Transdrill | COMMENCED 9/10/80 | DEPTH 10m | HOLE No. 80KTP27

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 9/10/80 | CASING LEFT 0 | DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Red sand, calcrete, Quartzite, goethite, hematite, quartz	(Pb. & contam)	887197	0	1		0.3
1	2				Red sand calcrete quartzite, " " "		8	1	2		<0.05
2	3				Quartzite, qtz, goeth. lem. (some contam.)		9	2	3		2.7
3	4				White & brown shale		887200	3	4		<0.05
4	5				Ditto		1	4	5		↓
5	6				"		2	5	6		
6	7				"		3	6	7		
7	8				Fe-stained quartzite, qtz, goeth. lem. Minor shale		4	7	8		
8	9				Fe-stained " " " "		5	8	9		
9	10				Ditto		887206	9	10		
					BOH 10m						

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CRAE 117

SUMMARY AND

LOGGED BY T.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkeek's Treasure ML.4209

CO-ORDINATES 4295E 2955N | AZIMUTH - | DRILLERS Transdrill | COMMENCED 9/10/80 | DEPTH 10m | HOLE No. 80KTP28

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 9/10/80 | CASING LEFT 0 | DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red sand, calcrete, gbrite, qtz, goethite, hematite	(Probably some mine contamination)	887207	0	1		0.1
1	2				Ditto		8	1	2		1.55
2	3				Red shale (+ downhole contamination)		9	2	3		<0.05
3	4				Ditto		887210	3	4		<0.05
4	5				Shale, yellow and brown		1	4	5		<0.05
5	6				Ditto	(Small limonite pseudomorph cube obs.)	2	5	6		0.1
6	7				Shale, cream-colour		3	6	7		<0.05
7	8				Ditto			7	8		<0.05
8	9				"			8	9		<0.05
9	10				"			9	10		<0.05
					B.O.H. 10m.						

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CRAE 117

SUMMARY AND

LOGGED BY T.E.M. DATE

Percussion DRILL CORE LOG

PROJECT NW Koolk's Treasure M.L. 4209

CO-ORDINATES 4295E 2950N AZIMUTH — DRILLERS Transdrill COMMENCED 10/10/80 DEPTH 10m HOLE No. BOKTP29

RL COLLAR — INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 10/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION
0	1				Red sand, calcrete, qtzite, qtz, goethite, hematite	(Prob & cont.)
1	2				Ditto	
2	3				Red shale + contam.	
3	4				Red & yellow shale	
4	5				Yellow shale	
5	6				Cream-coloured shale	
6	7				Ditto	
7	8				"	
8	9				"	
9	10				"	
					EOH 10m	

SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
887217	0	1		0.1
8	1	2		0.05
9	2	3		0.05
887220	3	4		0.05
1	4	5		<0.05
2	5	6		
3	6	7		
4	7	8		
5	8	9		
887226	9			

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

PROJECT Kurkeek's Treasure M.L. 4204

Percussion DRILL CORE LOG

CO-ORDINATES 4295E 2945N AZIMUTH - DRILLERS Transdrill COMMENCED 10/10/80 DEPTH 10m HOLE No. 80KTP30

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crand air COMPLETED 10/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red sand, calcrete, qtzite, qtz, goeth. hem.		887227	0	1		0.1
1	2				Ditto		8	1	2		0.1
2	3				White shale		9	2	3		<0.05
3	4				Ditto		887230	3	4		<0.05
4	5				Yellow shale + quartzite qtz, goeth, hem		1	4	5		<0.05
5	6				Quartzite, qtz, goeth, hem		2	5	6		<0.05
6	7				Ditto		3	6	7		0.25
7	8				"		4	7	8		0.2
8	9				"		5	8	9		0.25
9	10				"		887236	9	10		0.15
					BOH 10m						

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SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.C.M. DATE

SHEET OF

CRAE 117
PLAN No M414

PROJECT Kurkeers Treasure M.L. 4204

Percussion DRILL CORE LOG

CO-ORDINATES 4295E 2935N AZIMUTH – DRILLERS Transdrill COMMENCED 10/10/80 DEPTH 10m HOLE No. 80KTP31

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 10/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete, quartzite, goeth, hem. qtz		887237	0	1		0.6
1	2				Quartzite, Quartz, goeth. hem.		8	1	2		0.15
2	3				Goethite, hematite, quartz, Quartzite		9	2	3		0.15
3	4				Ditto		887240	3	4		0.1
4	5				Quartzite Qtz, goeth. hem.		1	4	5		<0.05
5	6				Ditto		2	5	6		<0.05
6	7				"		3	6	7		0.25
7	8				"		4	7	8		0.35
8	9				"		5	8	9		1.35
9	10				"		887246	9	10		0.45

EOH 10m

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SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

CRAE 117
PLAN No M414

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkbooks Treasure M.L. 4209

CO-ORDINATES 4295E 2930N AZIMUTH - DRILLERS Transdrill COMMENCED 10/10/80 DEPTH 10m HOLE No. BOKTP 32

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 10/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete quartzite, qtz, goeth. hem.		887247	0	1		0.1
1	2				Quartzite, qtz, goeth, hem. Calcrete condemination.		8	1	2		0.05
2	3				Ditto		9	2	3		0.05
3	4				Ditto (Calcrete con. decreasing)		887250	3	4		0.1
4	5				Ditto		1	4	5		0.25
5	6				"		2	5	6		3.75
6	7				"		3	6	7		1.6
7	8				" Minor siltstone		4	7	8		0.85
8	9				" Ditto		5	8	9		0.35
9	10				" "		887256	9	10		0.7
					BOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

PROJECT [illegible]

Percussion DRILL CORE LOG

CO-ORDINATES 4295E 2925N AZIMUTH – DRILLERS Transdrill COMMENCED 10/10/80 DEPTH 10m HOLE No. 80KTP33

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl + air COMPLETED 10/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete, Qtzite, qtz, goeth, lim		887257	0	1		0.1
1	2				Quartzite, qtz, goeth, lim (Calc cont.)		8	1	2		0.15
2	3				Ditto		9	2	3		0.1
3	4				Ditto (Calc. cont. decreasing)		887260	3	4		0.1
4	5				Ditto		1	4	5		0.1
5	6				"		2	5	6		0.25
6	7				"		3	6	7		0.1
7	8				"		4	7	8		0.1
8	9				"		5	8	9		0.05
9	10				"		887266	9	10		0.05
					BOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkpeek's Treasure M.L. 4209

CO-ORDINATES 4295E 2940N AZIMUTH - DRILLERS Transdrill COMMENCED 10/10/80 DEPTH 10m HOLE No. 80KTP34

RL COLLAR - INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 10/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete, quartzite, qtz, goeth. hem.		887267	0	1		1·35
1	2				Quartzite, qtz, goeth, hem. Calcrete contamination		8	1	2		2·0
2	3				Ditto		9	2	3		1·0
3	4				Quartzite, qtz, goeth., hematite.		887270	3	4		1·15
4	5				Ditto		1	4	5		0·65
5	6				"		2	5	6		0·55
6	7				"	Limonite pseudomorphs (small cubic)	3	6	7		0·65
7	8				"		4	7	8		0·4
8	9				Soft weathered white shale		5	8	9		2·3
9	10				Ditto		887276	9	10		0·3
					EOH 10m.						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkock's Treasure M.L. 4209

CO-ORDINATES 4295E 2920N AZIMUTH - DRILLERS Transdrill COMMENCED 10/10/80 DEPTH 10m HOLE No. 80KTP35

RL COLLAR INCLINATION -90° DRILL TYPE I. R. Crawl-air COMPLETED 10/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete, qtzite, qtz, hematite, goethite.		887277	0	1		0.25
1	2				Quartz, quartzite, hematite, goethite. (Calcrete contamination)		8	1	2		<0.05
2	3				Ditto " "		9	2	3		
3	4				Quartzite, qtz minor hematite		887280	3	4		
4	5				Ditto		1	4	5		
5	6				"		2	5	6		
6	7				"		3	6	7		
7	8				Brown qtzite, qtz, some iron staining.		4	7	8		
8	9				Ditto		5	8	9		
9	10				"		887286	9	10		
					EOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY I.E.M. DATE

SHEET OF

[illegible] EXPLORATION [illegible] LIMITED

Percussion DRILL CORE LOG

PROJECT Nickel's Treasure M.L. 4209

CO-ORDINATES 4295E 2915N AZIMUTH - DRILLERS Transdrill COMMENCED 10/10/80 DEPTH 10m HOLE No. 80KTP36

RL COLLAR ____ INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 10/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION
0	1				Calcrete, qtzite, qtz, some Fe stain	
1	2				Fe-stained qtzite, qtz. Calcrete contam.	
2	3				" " " , white qtz. Minor calcrete con.	
3	4				Ditto	
4	5				"	
5	6				Spotted qtzite Minor qtz & lensitic	
6	7				Ditto	
7	8				Qtzite Minor qtz, lensitic	
8	9				Ditto	
9	10				"	
					EOH 10m	

SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
887287	0	1		<0.05
8	1	2		<0.05
9	2	3		<0.05
887290	3	4		0.05
1	4	5		<0.05
2	5	6		<0.05
3	6	7		<0.05
4	7	8		0.1
5	8	9		0.05
887296	9	10		0.05

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

PROJECT Korook? Measure M.L. 4204

Percussion DRILL CORE LOG

CO-ORDINATES 4295E 2910N AZIMUTH – DRILLERS Transdrill COMMENCED 11/10/80 DEPTH 10m HOLE No. 80KTP37

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 11/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete Qtzite, Qtz, hem goeth.		887297	0	1		<0.05
1	2				Qtzite, qtz, hem, goeth. Minor calcrete contam		8	1	2		<0.05
2	3				Ditto		9	2	3		0.15
3	4				"		887300	3	4		0.2
4	5				"		1	4	5		0.05
5	6				Brown qtzite, qtz Minor hem. goeth.		2	5	6		0.25
6	7				Ditto		3	6	7		0.15
7	8				"		4	7	8		0.05
8	9				Brown qtzite, qtz, hematite, goethite		5	8	9		<0.05
9	10				Ditto		887306	9	10		0.1
					BOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T. E. H. DATE

SHEET OF

PROJECT Nookeek's Treasure M.L. 4207

Percussion DRILL ~~CORE~~ LOG

CO-ORDINATES 4295E 2905 N AZIMUTH – DRILLERS Transdrill COMMENCED 11/10/80 DEPTH 10m HOLE No. 80KTP38

RL COLLAR ______ INCLINATION 90° DRILL TYPE I.R. Crawl-air COMPLETED 11/10/80 CASING LEFT 0. DPO No(s) B 0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete + White, spotted qtzite		887307	0	1		<0.05
1	2				Qtzite qtz Calcrete contamination		8	1			↓
2	3				Ditto		9	2	3		↓
3	4				"		887310	3	4		↓
4	5				"		1	4	5		↓
5	6				Qtzite, qtz Minor calcrete contam. Minor hematite, goethite		2	5	6		↓
6	7				Ditto		3	6	7		↓
7	8				"		4	7	8		↓
8	9				"		5	8	9		↓
9	10				"		887316	9	10		↓
					BOH 10m.						

3847-48

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS ______

LOGGED BY T.E.M. DATE ______

SHEET ______ OF ______

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkeek's Treasure M.L. 4209

CO-ORDINATES 4295E 2900N AZIMUTH — DRILLERS Transdrill

RL COLLAR — INCLINATION -90° DRILL TYPE I.R. Crawl-air

COMMENCED 11/10/80 DEPTH 11m HOLE No. 80KTP39

COMPLETED 11/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION
0	1				Calcrete qtzite, qtz	
1	2				Brown qtzite, qtz Calcrete contamination	
2	3				Ditto Minor hematite, goethite	
3	4				Ditto	
4	5				"	
5	6				Qtzite, Qtz. Minor hematit goethite Minor calcrete conten.	
6	7				Ditto	
7	8				"	
8	9				"	
9	10				"	
10	11				"	
					EOH 11 m	

SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
887317	0	1		0·2
8	1	2		0·05
9	2	3		0·05
887320	3	4		<0·05
1	4	5		0·05
2	5	6		<0·05
3	6	7		
4	7	8		
5	8	9		
887326	9	10		
887327	10	11		

3847-49

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T. Elsom DATE

C.R.A. EXPLORATION PTY. LIMITED

Possession — DRILL CORE LOG

PROJECT Kirkock's Treasure M.L.4209

CO-ORDINATES 4295E 2895N — AZIMUTH — — DRILLERS Transdrill

RL COLLAR — INCLINATION -90° — DRILL TYPE I.R. Crawl-air

COMMENCED 11/10/90 — DEPTH 10m — HOLE No. 80KTP40

COMPLETED 11/10/90 — CASING LEFT 0 — DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au ppm
0	1				Calcrete, qtzite		887328	0	1		<0.05
1	2				Qtzite, qtz, hematite, goeth. Calcrete contamination		9	1	2		
2	3				Brown Fe-stained qtzite hematite, goeth, qtz Some calcrete contamination.		887330	2	3		
3	4				Brown qtzite, hematite, goethite, qtz, Minor "	"	887331	3	4		
4	5				Ditto		2	4	5		
5	6				"		3	5	6		
6	7				"		4	6	7		
7	8				" Minor silcstone		5	7	8		
8	9				Brown silcstone. + downhole contamination		6	8	9		
9	10				Ditto		887337	9	10		
					BOH 10m.						

3847-50

SUMMARY AND SPECIAL COMMENTS

LOGGED BY J.E.M. DATE

CRAE 117
PLAN No M414

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkcaks Treasure M.L. 4CC

CO-ORDINATES 4295E 289ON | AZIMUTH – | DRILLERS Transdrill | COMMENCED 11/10/80 | DEPTH 10m | HOLE No. 80KTP41

RL COLLAR | INCLINATION −90° | DRILL TYPE I.R. Crawl-air | COMPLETED 11/10/80 | CASING LEFT 0 | DPO No(s) BC510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete, qtzite, qtz.		887328	0	1		<0.05
1	2				Ditto + siltstone		9	1	2		
2	3				Brown siltstone + contamination		887340	2	3		
3	4				Ditto		1	3	4		
4	5				"		2	4	5		
5	6				Brown - grey siltstone		3	5	6		
6	7				Ditto		4	6	7		
7	8				"		5	7	8		
8	9				"		6	8	9		
9	10				"		887347	9	10		
					EOH 10m.						

3847-51

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET ... OF ...

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkeek's Treasure M.L. 4209

CO-ORDINATES 4295E 2885N AZIMUTH - DRILLERS Transdrill COMMENCED 11/10/80 DEPTH 10m HOLE No. 80KTP42

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 11/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcarenite, qtzite, qtz, siltstone		887348	0	1		0.05
1	2				Brown siltstone + Calcrete, qtzite, qtz contam.		9	1	2		
2	3				Ditto		887350	2	3		
3	4				"		1	3	4		
4	5				"		2	4	5		
5	6				"		3	5	6		
6	7				Green-grey siltstone. Minor contamination		4	6	7		
7	8				Ditto		5	7	8		
8	9				"		6	8	9		
9	10				"		887357	9	10		
					EOH 10m						

3847-52

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkee's Treasure ML. 4209

CO-ORDINATES 4295E 2880N | AZIMUTH - | DRILLERS Transdrill | COMMENCED 11/10/80 | DEPTH 10m | HOLE No. 80KTP43

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 11/10/80 | CASING LEFT 0 | DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION
0	1				Red sandy soil calcrete, qtzite, qtz.	
1	2				calcrete qtzite qtz	
2	3				Brown siltstone + calcrete, qtzite, qtz contamination	
3	4				Yellow-brown siltstone + contamination	
4	5				Ditto	
5	6				Grey & brown siltstone + contamination	
6	7				Ditto	
7	8				"	
8	9				Pale siltstone + Minor qtz, hematite, goeth	
9	10				Ditto.	
					EOH 10m	

SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
887358	0	1		<0.05
9	1	2		
887360	2	3		
1	3	4		
2	4	5		
3	5	6		
4	6	7		
5	7	8		
6	8	9		
887367	9	10		

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T. E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Nunkerks Treasure ML. 4204

CO-ORDINATES 4295E 2875N AZIMUTH - DRILLERS Transdrill COMMENCED 11/10/80 DEPTH 10m HOLE No. 80KTP44

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 11/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Red sandy soil, calcrete, qtzite, qtz, hem, goethite		887368	0	1		<0.05
1	2				Calcrete, qtzite, qtz, hematite, goethite.		9	1	2		
2	3				Brown siltstone + contamination		887370	2	3		
3	4				Ditto		1	3	4		
4	5				"		2	4	5		
5	6				Pale siltstone + qtz, hem, goeth		3	5	6		
6	7				Ditto		4	6	7		
7	8				"		5	7	8		
8	9				Pale siltstone + minor qtz, hem, goethite		6	8	9		
9	10				Ditto		887371	9	10		
					EOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkleck's Treasure ?L. 4209

CO-ORDINATES 4295E 2870N AZIMUTH - DRILLERS Travsdrill COMMENCED 1/10/80 DEPTH 10m HOLE No. 80KTP45

RL COLLAR INCLINATION -90° DRILL TYPE I. R. Crawl-air COMPLETED 1/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red sandy soil. Calcrete, qtzite, qtz, hematite		887378	0	1		<0.05
1	2				Calcrete, qtzite, qtz, hematite		9	1	2		↓
2	3				Ditto		887380	2	3		↓
3	4				Pale siltstone. Minor hematite, goethite.		1	3	4		↓
4	5				Ditto		2	4	5		↓
5	6				"		3	5	6		↓
6	7				"		4	6	7		↓
7	8				Siltstone + brown qtzite		5	7	8		↓
8	9				Brown qtzite, goethite, hematite + siltstone contamination		6	8	9		↓
9	10				Ditto		887387	9	10		↓

BOH 10m

3847-55

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY JEM. DATE

SHEET OF

PROJECT Turkoen's Treasure M.L. 4204

Percussion DRILL CORE LOG

CO-ORDINATES 4295E 2865N   AZIMUTH –   DRILLERS Transdrill   COMMENCED 11/10/80   DEPTH 10 m   HOLE No. 80KTP46

RL COLLAR   INCLINATION -90°   DRILL TYPE L.R. Crawl-air   COMPLETED 11/10/80   CASING LEFT 0   DPO No(s) B0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red-sandy soil calcrete, qtzite. Minor hematite, qtz		887388	0	1		<0.05
1	2				Calcrete, qtzite, siltstone		9	1	2		↓
2	3				Calcrete, siltstone.		887390	2	3		
3	4				Pale siltstone + calcrete, qtzite, qtz contamination		1	3	4		
4	5				Brown-grey siltstone + qtz. Minor hematite		2	4	5		
5	6				Grey siltstone. Minor qtz		3	5	6		
6	7				Ditto		4	6	7		
7	8				Grey & brown siltstone		5	7	8		
8	9				Ditto		6	8	9		
9	10				Grey siltstone.		887397	9	10		↓
					BOH 10m						

3847-56

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M.   DATE

SHEET ___ OF ___

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL - CORE LOG

PROJECT Kirkock's Treasure M.L. 4529

CO-ORDINATES 4295E 2860N | AZIMUTH — | DRILLERS Transdrill | COMMENCED 11/10/80 | DEPTH 10m | HOLE No. 80KTP47

RL COLLAR — | INCLINATION -90° | DRILL TYPE L.R. Crawl-air | COMPLETED 11/10/80 | CASING LEFT 2 | DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red sandy soil. Calcrete, qtzite, qtz, hematite		887398	0	1		<0.05
1	2				Calcrete, minor qtzite, qtz, hematite		9	1	2		
2	3				Brown siltstone + Calcrete contamination		887400	2	3		
3	4				Ditto		1	3	4		
4	5				Yellow-brown siltstone + minor hematite		2	4	5		
5	6				Brown and grey siltstone.		3	5	6		
6	7				Ditto		4	6	7		
7	8				"		5	7	8		
8	9				"		6	8	9		
9	10				"		887407	9	10		
					EOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY F.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkcock's Treasure M.L. 4529

CO-ORDINATES 4400E 2855N AZIMUTH - DRILLERS Tramdrill COMMENCED 11/10/80 DEPTH 10m HOLE No. 80KTP43

RL COLLAR INCLINATION -90° DRILL TYPE T.R. Crawl-air COMPLETED 11/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au ppm
0	1				Calcrete, quartz, quartzite, hematite, goethite.		887408	0	1		<.005
1	2				Brown quartzite, Quartz, goethite, hematite Minor calcrete		9	1	2		
2	3				Ditto		887410	2	3		
3	4				"		1	3	4		
4	5				"		2	4	5		
5	6				"		3	5	6		
6	7				" + Yellow-brown siltstone.		4	6	7		
7	8				Yellow-brown siltstone		5	7	8		
8	9				Ditto		6	8	9		
9	10				Greeny siltstone.		887417	9	10		
					EOH 10m						
					Nb This hole is a re-drill of a previous unsatisfactory hole (80KTP22)						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

U.N.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Nickel's Treasure P.L. 4329

CO-ORDINATES 4350E 2850N | AZIMUTH — | DRILLERS Transdrill | COMMENCED 11/10/80 | DEPTH 10m | HOLE No. 80NTP 49

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 11/10/80 | CASING LEFT 0 | DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m)
0	1				Red-sandy-soil, calcrete, quartz		887418	0	1		0·1
1	2				Ditto		9	1	2		0·15
2	3				Calcrete, quartz, hematite. Pale siltstone		887420	2	3		0·1
3	4				Ditto		1	3	4		<0·05
4	5				Pale siltstone + calcrete & qtz contamination		2	4	5		0·25
5	6				Ditto		3	5	6		<0·05
6	7				"		4	6	7		↓
7	8				Brown-grey siltstone		5	7	8		
8	9				Ditto		6	8	9		
9	10				"		887427	9	10		
					EOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL / CORE LOG

PROJECT Kirkeek S Treasure M.L. 4529.

CO-ORDINATES 4350E 2855N AZIMUTH — DRILLERS Transdrill COMMENCED 11/10/80 DEPTH 10m HOLE No. 80KTP50

RL COLLAR — INCLINATION -90° DRILL TYPE L.R. Crawl-air COMPLETED 11/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Red-sandy-soil, calcrete, quartz, quartzite, hematite		887428	0	1		0.35
1	2				calcrete, quartzite, quartz, hematite		9	1	2		0.15
2	3				Ditto		887430	2	3		0.1
3	4				Pale siltstone, + calcrete, qtz, qtzite, hematite contamination		1	3	4		<0.05
4	5				Ditto		2	4	5		0.05
5	6				Yellow-brown siltstone. Contamination decreasing		3	5	6		<0.05
6	7				Ditto		4	6	7		↓
7	8				Brown siltstone. Minor contamination		5	7	8		
8	9				Brown-grey siltstone		6	8	9		
9	10				Ditto		887437	9	10		↓
					BOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkcat's Treasure M.L. 4529.

CO-ORDINATES 4350E 2860N | AZIMUTH - | DRILLERS Transdrill | COMMENCED 11/10/80 | DEPTH 10m | HOLE No. 80KTP51

RL COLLAR | INCLINATION -90° | DRILL TYPE L.R. Crawl-air | COMPLETED 11/10/80 | CASING LEFT 0 | DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Red-sandy-soil, calcrete, qtz, hematite, qbzite, siltstone		887438	0	1		0.15
1	2				Yellow siltstone + calcrete, qtz, hematite, qbzite		9	1	2		0.2
2	3				Yellow siltstone		887440	2	3		0.05
3	4				Ditto		1	3	4		<0.05
4	5				"		2	4	5		
5	6				Yellow-grey siltstone		3	5	6		
6	7				Grey-brown siltstone		4	6	7		
7	8				Ditto		5	7	8		
8	9				"		6	8	9		
9	10				"		887447	9	10		
					EOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T. E. M DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL - CORE LOG

PROJECT Kirkock's Treasure M.L. 4529

CO-ORDINATES 4350E 2865N AZIMUTH — DRILLERS Transdrill

RL COLLAR — INCLINATION -90° DRILL TYPE 1.2. Crawl - air

COMMENCED 12/10/80 DEPTH 10m HOLE No. 80KTP52

COMPLETED 12/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au ppm
0	1				Calcrete, quartz, quartzite, laterite. Minor siltstone		887448	0	1		0.05
1	2				Yellow siltstone, calcrete, grit		9	1	2		0.20
2	3				Yellow siltstone		887450	2	3		<0.05
3	4				Ditto		1	3	4		
4	5				"		2	4	5		
5	6				"		3	5	6		
6	7				"		4	6	7		
7	8				"		5	7	8		
8	9				"		6	8	9		
9	10				Cream-grey siltstone		887457	9	10		
					EOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

PROJECT [illegible] E.L. 4527

Percussion DRILL CORE LOG

CO-ORDINATES 4344E 2870N AZIMUTH – DRILLERS Transdrill COMMENCED 12/10/80 DEPTH 10 m HOLE No. 80KTP53

RL COLLAR INCLINATION -90° DRILL TYPE I. R. Crawl-air COMPLETED 12/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete, quartzite, quartz, hematite, goethite.		887458	0	1		0.10
1	2				Ditto		9	1	2		<0.05
2	3				Yellow siltstone + calcrete contamination		887460	2	3		↓
3	4				Yellow siltstone		1	3	4		↓
4	5				Ditto		2	4	5		↓
5	6				"		3	5	6		↓
6	7				"		4	6	7		0.10
7	8				"		5	7	8		<0.05
8	9				"		6	8	9		<0.05
9	10				"		887467	9	10		0.10

BOH 10m

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CRAE 117
PLAN No M 414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Nickel's Treasure M.C. 4574

CO-ORDINATES 4345E 2875N | AZIMUTH — | DRILLERS Transdrill | COMMENCED 12/10/80 | DEPTH 10m | HOLE No. 80KTP54

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 12/10/80 | CASING LEFT 0 | DPO No(s) BOSIC

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete quartzite, quartz, lenatite, goethite.		887468	0	1		0.05
1	2				Pale siltstone, calcrete, quartzite, quartz.		9	1	2		<0.05
2	3				Grey-brown siltstone + calcrete contamination		887470	2	3		↓
3	4				Ditto		1	3	4		
4	5				Grey-brown siltstone. Contamination decreasing		2	4	5		
5	6				Ditto.		3	5	6		
6	7				"		4	6	7		
7	8				"		5	7	8		
8	9				"		6	8	9		
9	10				"		887477	9	10		↓
					BOH 10m						

38447-64

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion - DRILL CORE LOG

PROJECT Kirkcok's Treasure M.L.4529

CO-ORDINATES 4350E 2880N AZIMUTH — DRILLERS Transdrill

RL COLLAR — INCLINATION -90° DRILL TYPE I.R. Crawl-air

COMMENCED 12/10/80 DEPTH 10m HOLE No. 80KTP55

COMPLETED 12/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m)
0	1				Calcrete, quartzite, quartz, goethite, hematite		887478	0	1		<0.05
1	2				Pale siltstone, calcrete, quartzite, quartz.		9	1	2		
2	3				Yellow-brown siltstone + some contamination.		887450	2	3		
3	4				Ditto		1	3	4		
4	5				Yellow-brown siltstone		2	4	5		
5	6				Ditto		3	5	6		
6	7				"		4	6	7		
7	8				Grey-brown siltstone		5	7	8		
8	9				Ditto		6	8	9		
9	10				"		887487	9	10		
					EOH 10m						

3847-65

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkeek's Treasure M.L. 4204

CO-ORDINATES 4350E 2885N AZIMUTH - DRILLERS Transdrill COMMENCED 12/10/80 DEPTH 10m HOLE No. 80KTP56

RL COLLAR ____ INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 12/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete, quartzite, quartz, goethite, hematite		887488	0	1		0.1
1	2				Ditto + pale siltstone		9	1	2		0.05
2	3				Pale siltstone & contamination		887490	2	3		0.10
3	4				Yellow siltstone		1	3	4		0.05
4	5				Ditto		2	4	5		0.25
5	6				"		3	5	6		<0.05
6	7				Brown-grey siltstone		4	6	7		<0.05
7	8				Green-grey siltstone		5	7	8		0.05
8	9				Ditto		6	8	9		0.05
9	10				"		887497	9	10		<0.05
					B.O.H. 10m						

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CRAE 117
PLAN No M 414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET ____ OF ____

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT: Arkook's Treasure R.L. 4209

CO-ORDINATES: 4350 E 2889 N
RL COLLAR:
AZIMUTH: –
INCLINATION: –90°
DRILLERS: Transdrill
DRILL TYPE: I.R. Crawl-air
COMMENCED: 12/10/80
COMPLETED: 12/10/80
DEPTH: 10m
CASING LEFT: Ø
HOLE No.: 80KTP57
DPO No(s): B 0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete, pale siltstone, Minor quartz, quartzite		887498	0	1		1.1
1	2				Pale-grey siltstone. Minor calcrete.		9	1	2		0.10
2	3				Ditto " " contamination		887500	2	3		<0.05
3	4				"		1	3	4		<0.05
4	5				Grey-brown siltstone		2	4	5		2.0
5	6				Ditto		3	5	6		0.25
6	7				Brown siltstone		4	6	7		1.0
7	8				Ditto		5	7	8		<0.05
8	9				Grey siltstone		6	8	9		<0.05
9	10				Ditto		887507	9	10		<0.05
					BOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS:

LOGGED BY: T.E.M.
DATE:
SHEET: OF:

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT Kirkeek's Treasure M.L. 4209

CO-ORDINATES 4350E 2896N AZIMUTH - DRILLERS Transdrill COMMENCED 12/10/80 DEPTH 10m HOLE No. 80KTP58

RL COLLAR ____ INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 12/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete, quartzite, quartz, goethite, hematite.		887518	0	1		0.30
1	2				White quartzite, quartzite + minor goethite, hematite		9	1	2		0.25
2	3				Ditto		887520	2	3		0.15
3	4				"		1	3	4		0.05
4	5				Quartzite, quartz, goethite, hematite		2	4	5		0.05
5	6				Ditto . minor brown siltstone		3	5	6		0.15
6	7				Brown & grey siltstone ———	+ qtz, goeth, hem (possibly condomination)	4	6	7		<0.05
7	8				Ditto		5	7	8		<0.05
8	9				"		6	8	9		<0.05
9	10				"		887527	9	10		<0.05
					EOH 10m						

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CRAE 117

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

PROJECT Mckeek's Treasure 11.L.4209

Percussion DRILL CORE LOG

CO-ORDINATES 4350E 2900N AZIMUTH – DRILLERS Transdrill COMMENCED 12/10/80 DEPTH 10m HOLE No. 80KTPS9

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 12/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete, siltstone, quartz, goethite, hematite		887508	0	1		0.45
1	2				Quartzite, quartz, goethite, hematite + calcrete		9	1	2		0.25
2	3				Iron-stained quartzite, quartz, goethite, hematite.		887510	2	3		3.1
3	4				Ditto		1	3	4		2.0
4	5				"		2	4	5		2.2
5	6				"		3	5	6		2.2
6	7				" , decreasing iron content.		4	6	7		0.70
7	8				Ditto		5	7	8		0.75
8	9				"		6	8	9		0.45
9	10				Quartzite, quartz, goethite, hematite		887517	9	10		0.25
					BOH 10m						

3847-69

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Ruttek's Treasure M.C. 4209

CO-ORDINATES 4350E 2905N AZIMUTH — DRILLERS Transdrill COMMENCED 12/10/80 DEPTH 10m HOLE No. 80KTP60

RL COLLAR — INCLINATION -90° DRILL TYPE I.R. Crawla-air COMPLETED 12/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete, quartzite, quartz. Minor hematite, goethite		887528	0	1		0.10
1	2				White quartzite, Minor quartz, goethite, hematite		9	1	2		<0.05
2	3				" " Minor Fe stain, " " "		887530	2	3		0.30
3	4				Ditto		1	3	4		0.15
4	5				"		2	4	5		0.15
5	6				"		3	5	6		0.10
6	7				"		4	6	7		0.10
7	8				"		5	7	8		0.10
8	9				White and Fe-stained quartzite + quartz.		6	8	9		0.10
9	10				Brown quartzite + quartz		887537	9	10		0.10
					Both 10m						

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CRAE 117
PLAN No M 414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

Percussion DRILL CORE LOG

PROJECT [illegible]

CO-ORDINATES 4350E 2910N | AZIMUTH – | DRILLERS Transdrill | COMMENCED 12/10/80 | DEPTH 10m | HOLE No. 80KTP61

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 12/10/80 | CASING LEFT 0 | DPO No(s) B 0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete, white quartzite. Minor quartz hematite.		887538	0	1		0.10
1	2				White quartzite. Minor calcrete, qtz, hematite.		9	1	2		0.05
2	3				White quartzite. Minor Fe-stain		887540	2	3		0.30
3	4				White and Fe-stained quartzite + quartz.		1	3	4		0.05
4	5				Ditto		2	4	5		0.15
5	6				"		3	5	6		0.10
6	7				"		4	6	7		0.10
7	8				"		5	7	8		0.10
8	9				"		6	8	9		0.30
9	10				"		887547	9	10		0.15
					BOH 10m						

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SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

CRAE 117
PLAN No M414

PROJECT [illegible] M.L. 4204

Percussion DRILL CORE LOG

CO-ORDINATES 4350E 2915N
RL COLLAR
AZIMUTH –
INCLINATION –90°
DRILLERS Transdrill
DRILL TYPE I.R. Crawl-air
COMMENCED 12/10/80
COMPLETED 12/10/80
DEPTH 10m
CASING LEFT 0
HOLE No. 80KTP62
DPO No(s). B 0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)							
0	1				Calcrete + white quartzite		887548	0	1		0.15							
1	2				Ditto		9	1	2		<0.05							
2	3				White quartzite		887550	2	3		0.15							
3	4				Ditto + white & clear crystalline qtz.		1	3	4		0.30							
4	5				Ditto		2	4	5		0.20							
5	6				"		3	5	6		0.20							
6	7				"		4	6	7		0.15							
7	8				"		5	7	8		<0.05							
8	9				"		6	8	9		<0.05							
9	10				"		887557	9	10		0.15							
					BOH 10m													

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CRAE 117
PLAN No M 414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

Percussion DRILL CORE LOG

PROJECT Hawkeye's Treasure I.L. 4609

CO-ORDINATES 4350E 2920N AZIMUTH - DRILLERS Transdrill COMMENCED 12/10/80 DEPTH 10m HOLE No. 80KTP63

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 12/10/80 CASING LEFT Ø DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Calcrete, white qtzite, qtz		887558	0	1		0.10
1	2				Ditto		9	1	2		0.10
2	3				White quartzite Minor qtz		887560	2	3		<0.05
3	4				Ditto		1	3	4		<0.05
4	5				White quartzite + quartz.		2	4	5		0.10
5	6				Ditto		3	5	6		0.10
6	7				" + minor iron-stain		4	6	7		0.10
7	8				White quartzite + quartz		5	7	8		0.10
8	9				Ditto		6	8	9		0.10
9	10				"		887567	9	10		0.10
					BOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

Percussion DRILL CORE LOG

PROJECT Hunt Bros Treasure M.L. 4209

CO-ORDINATES 4350E 2925N AZIMUTH - DRILLERS Transdrill COMMENCED 12/10/80 DEPTH 10m HOLE No. 80KTP64

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 12/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Calcrete, quartzite, quartz		887568	0	1		0.15
1	2				Ditto		9	1	2		0.10
2	3				White and iron-stained quartzite, quartz		887570	2	3		0.10
3	4				Ditto		1	3	4		0.05
4	5				White quartzite + quartz.		2	4	5		0.05
5	6				Ditto		3	5	6		<0.05
6	7				"		4	6	7		0.05
7	8				"		5	7	8		0.10
8	9				"		6	8	9		0.10
9	10				"		887577	9	10		0.10
					EOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY I.E.M. DATE

SHEET OF

PROJECT [illegible] Treasure [illegible]

Percussion DRILL CORE LOG

CO-ORDINATES 4350E 2930N AZIMUTH - DRILLERS Transdrill COMMENCED 12/10/80 DEPTH 10m HOLE No. 80KTP65

RL COLLAR INCLINATION -90° DRILL TYPE LR Crawl-air COMPLETED 12/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)						
0	1				Calcrete, quartzite, quartz		887578	0	1		0.15						
1	2				Ditto		9	1	2		0.05						
2	3				White & iron-stained quartzite, quartz		887580	2	3		<0.05						
3	4				Ditto		1	3	4		↓						
4	5				"		2	4	5		↓						
5	6				"		3	5	6		↓						
6	7				"		4	6	7		↓						
7	8				"		5	7	8		↓						
8	9				"		6	8	9		↓						
9	10				White quartzite + quartz.		887587	9	10		0.05						
					BOH 10m												

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

U.K.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkcock's Treasure M.L.4209

CO-ORDINATES 4350E 2935N AZIMUTH - DRILLERS Transdrill COMMENCED 12/10/80 DEPTH 10m HOLE No. 80KTP66

RL COLLAR - INCLINATION -90° DRILL TYPE R.R. Crawl-air COMPLETED 12/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Red sand, calcrete, quartzite, quartz.		887588	0	1		0·15
1	2				calcrete, White quartzite		9	1	2		0·10
2	3				White and red quartzite + qtz. Minor hematite		887590	2	3		0·10
3	4				Ditto		1	3	4		<0·05
4	5				"		2	4	5		
5	6				"		3	5	6		
6	7				"		4	6	7		
7	8				"		5	7	8		
8	9				White quartzite with minor iron stain. Qtz.		6	8	9		
9	10				Ditto		887597	9	10		0·40
					B.O.H. 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

Percussion DRILL CORE LOG

PROJECT Kurkeek's Treasure M.L. 4209

CO-ORDINATES 4350E 2940N AZIMUTH - DRILLERS Transdrill COMMENCED 13/10/80 DEPTH 10m HOLE No. 80KTP67

RL COLLAR INCLINATION -90° DRILL TYPE 1.2. Crawl-air COMPLETED 13/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM (M)	DEPTH TO (M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)							
0	1				Red sand, calcrete. Minor quartzite.		887598	0	1		0.15							
1	2				Red quartzite, quartz, calcrete + sand contamination		9	1	2		0.30							
2	3				Red & white quartzite, quartz, calcrete		887600	2	3		0.25							
3	4				White quartzite, qtz.		1	3	4		0.60							
4	5				Red & white quartzite, Quartz, Minor hematite		2	4	5		0.10							
5	6				Red quartzite + qtz, goethite, hematite		3	5	6		<0.05							
6	7				Ditto		4	6	7		↓							
7	8				White & red quartzite + qtz, hematite		5	7	8									
8	9				White & yellow quartzite qtz, hematite		6	8	9									
9	10				Yellow silty quartzite + Qtz.		887607	9	10									
					BOH 10m													

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

Percussion DRILL CORE LOG

PROJECT McKeek's Treasure M.L. 4209

CO-ORDINATES 4350E 2945N AZIMUTH - DRILLERS Transdrill COMMENCED 13/10/80 DEPTH 10m HOLE No. 80KTP68

RL COLLAR INCLINATION -90° DRILL TYPE I. R. Crawl-air COMPLETED 13/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red sand, calcrete. Minor quartzite, qtz.		887608	0	1		0·05
1	2				Calcrete. Red & white siltstone		9	1	2		0·20
2	3				Ditto		887610	2	3		0·35
3	4				Very red quartzite, qtz, Minor hematite, goethite		1	3	4		<0·05
4	5				Ditto		2	4	5		0·25
5	6				"		3	5	6		3·3
6	7				"		4	6	7		5·7
7	8				"		5	7	8		1·0
8	9				Red & brown quartzite, qtz, Minor hematite goethite		6	8	9		0·30
9	10				Red & yellow quartzite, qtz, goethite, hematite		887617	9	10		0·20
					BOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

Percussion DRILL CORE LOG

PROJECT Kirkeek's Treasure M.L. 4209

CO-ORDINATES 4350E 2950N AZIMUTH - DRILLERS Transdrill

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air

COMMENCED 13/10/80 DEPTH 10m HOLE No. 80KTP69

COMPLETED 13/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION
0	1				Red sand. Minor gthite, qtz, goethite, hematite.	
1	2				Red sand, calcrete, qtzite, qtz, goethite, hematite.	
2	3				Calcrete, quartzite, qtz, goethite, hematite.	
3	4				Pale siltstone, calcrete.	
4	5				Cream-coloured ..... chlk. Minor contamination	
5	6				Ditto	
6	7				"	
7	8				" Minor red quartzite	
8	9				White quartzite, hematite qtz — Minor goethite	
9	10					
					EOH 10m.	

SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
887618	0	1		0-10
9	1	2		0-20
887620	2	3		0-25
1	3	4		0-05
2	4	5		<0-05
3	5	6		
4	6	7		
5	7	8		
6	8	9		
887627	9	10		

3849-79

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

U.N.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkcock's Treasure M.L. 4209

CO-ORDINATES 4350E 2955N AZIMUTH - DRILLERS Transdrill COMMENCED 13/10/80 DEPTH 10m HOLE No. 80KTP70

RL COLLAR INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 13/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION
0	1				Red sand. Minor quartzite	
1	2				Calcrete, quartzite, hematite, qtz, goethite	
2	3				Ditto	
3	4				" Minor pale shale	
4	5				Cream-coloured shale + some contamination	
5	6				Ditto	
6	7				"	
7	8				Cream-coloured shale + white qtzite with minor Fe-stain	
8	9				White & Fe-stained quartzite. Minor shale contamination	
9	10				Ditto	
					EOH 10m	

SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
887628	0	1		<0.05
9	1	2		0.25
887630	2	3		0.35
1	3	4		0.05
2	4	5		0.15
3	5	6		<0.05
4	6	7		
5	7	8		
6	8	9		
887637	9	10		

3847-80

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T-E M. DATE

SHEET OF

...EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Kirkeek's Treasure M.L. 4209

CO-ORDINATES 4350E 2960N | AZIMUTH - | DRILLERS Transdrill | COMMENCED 13/10/80 | DEPTH 10m | HOLE No. 80KTP71

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 13/10/80 | CASING LEFT 0 | DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Red sand, Quartzite, quartz, hematite, goethite, calcrete.		887638	0	1		<0.05
1	2				Calcrete, quartzite, quartz, goethite, hematite		9	1	2		0.10
2	3				Ditto		887640	2	3		1.85
3	4				Cream-coloured shale + contamination.		1	3	4		0.05
4	5				Cream and pink shale		2	4	5		<0.05
5	6				Ditto - Minor quartz, hematite goethite.		3	5	6		
6	7				White quartzite, qtz, hematite, goethite.		4	6	7		
7	8				Ditto		5	7	8		
8	9				"		6	8	9		
9	10				"		887647	9	10		
					EOH 10m						

3847-81

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

Percussion

DRILL CORE LOG

PROJECT Nurkeek's Treasure M.L. 4209

CO-ORDINATES 4350E 2965N | AZIMUTH - | DRILLERS Transdrill | COMMENCED 13/10/80 | DEPTH 11m | HOLE No. 80KTP72

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 13/10/80 | CASING LEFT 0 | DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Red sand, calcrete, quartzite, hematite		887648	0	1		<0.05
1	2				Calcrete, red & white quartzite, quartz, hematite		9	1	2		0.20
2	3				Red & white quartzite, quartz, hematite, (calcrete)		887650	2	3		<0.05
3	4				" " " " " goethite.		1	3	4		0.05
4	5				White qtzite, qtz. Minor hematite		2	4	5		<0.05
5	6				Ditto		3	5	6		
6	7				"		4	6	7		
7	8				Cream shale, qtzite, qtz.		5	7	8		
8	9				Ditto		6	8	9		
9	10				Yellow siltstone, qtzite, qtz goethite hematite		7	9	10		
10	11				Yellow silty quartzite, quartz, goethite, hematite		887658	10	11		
					EOH 11m.						

3847-82

CRAE 117
PLAN No M 414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT Kirkeek's Treasure M.L.4209

CO-ORDINATES 4350E 2970N AZIMUTH — DRILLERS Transdrill COMMENCED 13/10/80 DEPTH 10m HOLE No. 80KTP73

RL COLLAR — INCLINATION -90° DRILL TYPE I.R. Crawl-air COMPLETED 13/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au p.p.m.
0	1				Red sand, calcrete, quartzite, minor hematite		887659	0	1		<0.05
1	2				Calcrete, quartzite, quartz, minor hematite		887660	1	2		
2	3				White and ironstained quartzite, calcrete, quartz, hematite		1	2	3		
3	4				Ditto		2	3	4		
4	5				White & ironstained quartzite, quartz, hematite Minor goethite		3	4	5		
5	6				Ditto		4	5	6		
6	7				"		5	6	7		
7	8				White quartzite, quartz, hematite, Minor silcstone		6	7	8		
8	9				Ditto		7	8	9		
9	10				Yellow silcstone + some contamination		887668	9	10		
					EOH 10m.						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET 05

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Mount Victor E.L. 584

CO-ORDINATES 4529E 2980N AZIMUTH - DRILLERS Transdrill COMMENCED 9/10/80 DEPTH 3 m. HOLE No. BOMVP1

RL COLLAR INCLINATION -90 DRILL TYPE I.R. Crawl-air COMPLETED 9/10/80 CASING LEFT 0. DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red sand. Red, brown and white quartzite. Calcrete		887167	0	1		<0.05
1	2				Quartzite, red, brown and white.		8	1	2		↓
2	3				Ditto		887169	2	3		↓
					Hole collapsed. Abandoned at 3.0m.						

3847-84

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Mount Victor E.L. 584

CO-ORDINATES 4400 E 3025N | AZIMUTH - | DRILLERS Transdrill | COMMENCED 13/10/80 | DEPTH 11m | HOLE No. 80MVP2

RL COLLAR | INCLINATION -90° | DRILL TYPE I.R. Crawl-air | COMPLETED 13/10/80 | CASING LEFT 0 | DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (ppm)
0	1				Red sand, calcrete, Heavily ironstained quartzite. Minor quartz, hematite, goethite.		887669	0	1		<0.05
1	2				Calcrete, ironstained quartzite, quartz, yellow silicy sandstone.		887670	1	2		<0.05
2	3				Ditto		1	2	3		0.05
3	4				Yellow silcstone		2	3	4		<0.05
4	5				White quartzite, quartz, hematite, goethite. Minor silcstone		3	4	5		<0.05
5	6				Ditto		4	5	6		0.05
6	7				White quartzite, quartz. Minor hematite, goethite		5	6	7		<0.05
7	8				Ditto		6	7	8		<0.05
8	9				"		7	8	9		↓
9	10				"		8	9	10		
10	11				"		887689	10	11		↓
					BOH 11m.						

3847-85

CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

C.R.A. EXPLORATION PTY. LIMITED

Percussion **DRILL CORE LOG**

PROJECT Mt Victor EL. 584.

CO-ORDINATES 4400 E 3020N AZIMUTH – DRILLERS Transdrill COMMENCED 13/10/80 DEPTH 11m HOLE No. 80MVP3

RL COLLAR INCLINATION –90° DRILL TYPE I.R. Crawl-air COMPLETED 13/10/80 CASING LEFT 0 DPO No(s) B 0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (p.p.m.)
0	1				Red sand, Iron-stained quartzite, quartz, hematite, goethite.		887680	0	1		<0.05
1	2				Calcrete, brown quartzite, Minor quartz, hematite, goethite			1	2		
2	3				Ditto			2	3		
3	4				Ditto + yellow-brown silty sandstone			3	4		
4	5				Ditto			4	5		0.05
5	6				"			5	6		<0.05
6	7				"			6	7		0.05
7	8				" + minor yellow siltstone			7	8		<0.05
8	9				White quartzite, quartz, hematite, goethite. (Minor contamination)			8	9		
9	10				Ditto			9	10		
10	11				"		887690	10	11		
					BOH 11m						

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SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

M414

C.R.A. EXPLORATION PTY. LIMITED

Percussion DRILL CORE LOG

PROJECT Mount Victor E.L. 584.

CO-ORDINATES 4400 E 3015 N AZIMUTH — DRILLERS Transdrill COMMENCED 13/10/80 DEPTH 10 m HOLE No. 80MVP4

RL COLLAR — INCLINATION −90° DRILL TYPE I.R. Crawl-air COMPLETED 13/10/80 CASING LEFT 0 DPO No(s) B0510

DEPTH FROM(M)	DEPTH TO(M)	CORE REC. (M)	CORE SIZE	GRAPHIC LOG	CORE DESCRIPTION	SPECIAL FEATURES WEATH., ALTERATION, FRACTURING VEINING, MINERALIZATION	SAMPLE No.	FROM (M)	TO (M)	REC (M)	ASSAY VALUES Au (g/t)
0	1				Red sand, iron-stained quartzite, Minor qtz, hematite		887691	0	1		<0.05
1	2				Calcrete, white & iron-stained quartzite. Minor qtz, hematite		2	1	2		
2	3				Ditto		3	2	3		
3	4				" Minor contamination		4	3	4		
4	5				" Ditto		5	4	5		
5	6				Ditto. Minor white siltstone		6	5	6		
6	7				Pale yellow siltstone		7	6	7		
7	8				Pale yellow silty sandstone		8	7	8		0.10
8	9				Yellow siltstone		9	8	9		<0.05
9	10				Yellow and white sandstone.		887700	9	10		<0.05
					BOH 10m						

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CRAE 117
PLAN No M414

SUMMARY AND SPECIAL COMMENTS

LOGGED BY T.E.M. DATE

SHEET OF

LOOKOUT HILL
MAIN OPEN CUT
DRY DAM
Middle Shale
Qc/s
Qt
LEGEND
Qc/s Quaterly calcrete, partially covered by aeolian sand
Qt High & low angle slope deposits Gravels consisting of quartzite, quartz, hematite ± calcrete & siltstone
Permanent Mark
Peg & Picket
Metal Pin & Picket
Picket
Shaft
Diggings
Lease or claim Pegs
Costean
G.N.
T.N.
M.N.
N.B. ALL BEARINGS ON MAP GIVEN IN DEGREES EAST OF M.N.
0 20 40 60 80 100 120 140 160 180 200 Metres
3847-2
C.R.A. EXPLORATION PTY. LIMITED.
KIRKEEKS TREASURE MINE
LEASES & SURROUNDING
MT. VICTOR E.L. 584
PRELIMINARY GEOLOGY
1:250,000 MAP REF. OLARY SI 54-2
Geol.: T.E. MAYER
Scale: 1: 2,500
Drawn: D.R.W.
Report N°:
Date: FEB. 1980.
Plan N°.: SAg 436

2850 N | 2900 N | 2949 N | 3000 N | 3012 N | 3050 N | 3100 N | 3150 N | 3200 N

M.L. 4529 | M.L. 4106 | M.L. 4106 | M.L. 4824 | M.L. 4824 | E.L. 584

S

N

NBH DDK 1
Projection
(42 m West of Section)
Azimuth 353° mag.
Declination 45°

80 KTD4
4200 E, 2949 N
Declination -90°

79/80 KTD 1
4200E 3012 N
Azimuth 353° mag.
Declination -70°

Au assays (p.p.m.) 1m. intervals

Au assays (p.p.m.) 1.52m. intervals

Au assays (p.p.m.) 1m. intervals

Au assays (p.p.m.) 1m. intervals

Quartzite

OPEN CUT

Quartzite o/c

Shale & Siltstone

3·6m

11·5m

Quartzite

Arenaceous Siltstone

Trace Au (Point) 3·4m

Quartzite

Quartzite o/c

2·98 p.p.m Au
(2 m. interval)
Float Rock Chip

2·7m

21m

27·5m

Quartzite

22m

Cross-cut

38m Shale

38·2m

40m: Base of Oxidation.

Fine-grained quartzite

Siltstone

Siltstone

44m Base of Oxidation

B.O.H. 45·6m.

Base of Oxidation 50m

69m: Base of Oxidation (Projected)

55m

Siltstone

64m
MAIN SHAFT
(Inaccessible)

B.O.H. 106 m.

79·80m.

85·0m.

Siltstone

B.L.O.

170·0m.

179·0m.

180·0m.

Calcareous Siltstone

B.O.H. 193·15m.

10% TOTAL SULPHIDE

EXTRACT FROM PLAN Nº SAa 387 SHOWING SECTION LINE 4200 E

METRES 0 20 40 60 80 100 METRES

GN. T.N. M.N.

Qt

Quartzite o/c & sub-o/c

92

94

96

98

Qt

Engine & Pump
Tank
Tank

79/80 KTD1

3000N

Sand Cover

Quartzite o/c & sub-o/c

Galv. Iron Shed
Loading Ramp

Scattered Fe-stained qtzite o/c & sub-o/c

Shale & siltstone
80 KTD 4

Ripple-marked sandy siltstone

Tank Ruins

98

NBH DDK 1
39° Dip

Chimney

Ruins

Ruins

Ruins

Conc. Tank

96

94

4200E

0 50 100 Metres

Revised: 13 May, 1980.

3847-3

1:250,000 Map Sheet Ref.: OLARY SI 54-2.

C.R.A. EXPLORATION PTY. LIMITED.

MT. VICTOR, E.L. 584
KIRKEEK'S TREASURE MINE, M.C 1156.
Geological Cross-section, 4200 E, Looking West
(Showing Diamond Drill Hole : 79/80 KTD 1).

Geol.: T.E.MAYER	Scale: 1:500	Report Nº.
Drawn: D.WEHR	Date: FEB.,1980.	Plan Nº.: SAa 385

2750 N | 2800 N | 2850 N | 2900 N | 2950 N | 3000 N | 3050 N | 3100 N

E.L. 584 | M.L. 4529 | M.L. 4529 | M.L. 4209 | M.L. 4209 | E.L. 584

S

N

80 KTD 2
4400E, 2960N
Azimuth 185° mag
Declination-70°

79/80 KTD1
Projection
(200m West of Section)

Projected Quartzite o/c

Costean (Projection) 5m East of Section

Projection (10m. West of Section). H. Rademakers open-cut.

Note: Au assays: Channel samples in costeans. (p.p.m.)

Sand- soil - calcrete

Quartzite float

B.L.D

Bedding

Track

Quartz-Fe vein

Quartzite (brecciated)

Quartzite

Siltstone in costean

Reworked calcrete & sandstone 2.4m

Note: Au assays (p.p.m.): Surface rock chip sampling. (25m E. of Section)

Quartzite, fractured leached. Thin quartz veins.

23m. 30cm. thick fracture. Fe-qtz-sand-clay-(Au). (Trace of very fine Au in sludge).

34m. Trace Au in sludge

Siltstone

52m. Base of Oxidation

58m. Quartzite

Siltstone

B.O.H. 66.6 m.

B.O.H. 193.15 m.

Note:
B.L.D. = Below Limit of Detection. (<0.04 p.p.m.)

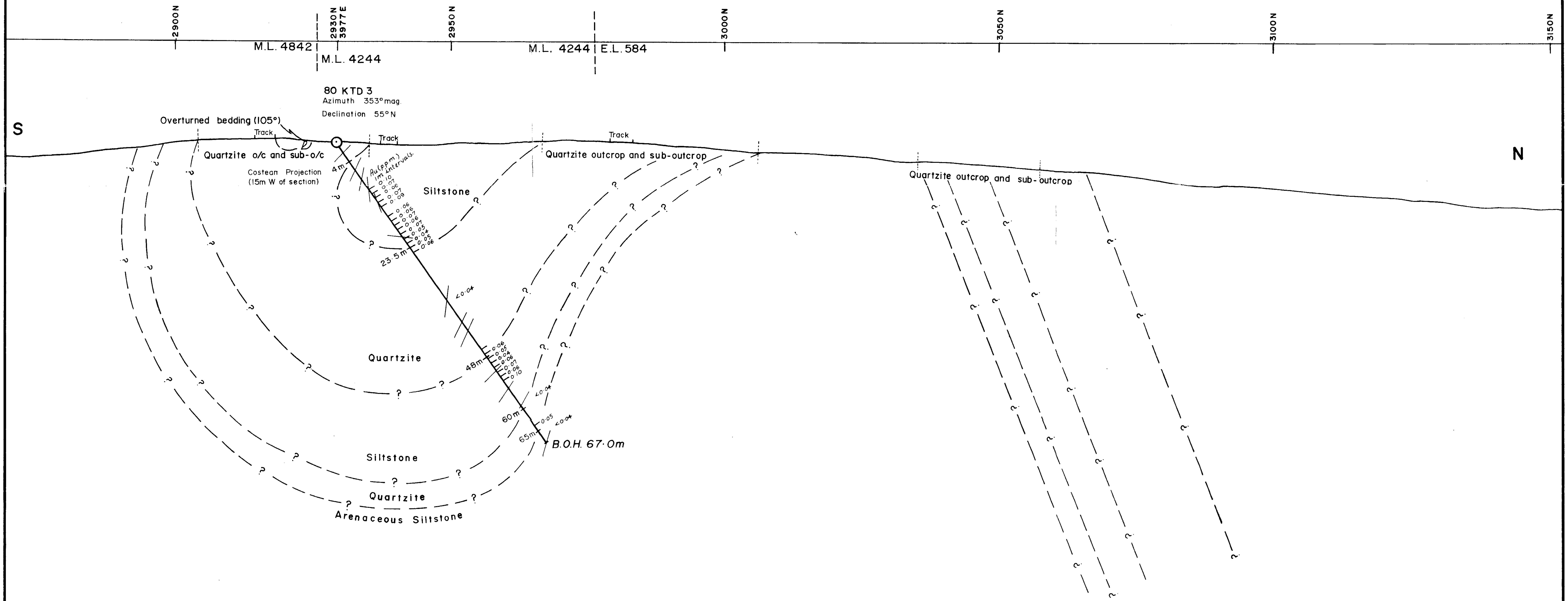
0 50 100 Metres

38N7-4

C.R.A. EXPLORATION PTY. LIMITED.

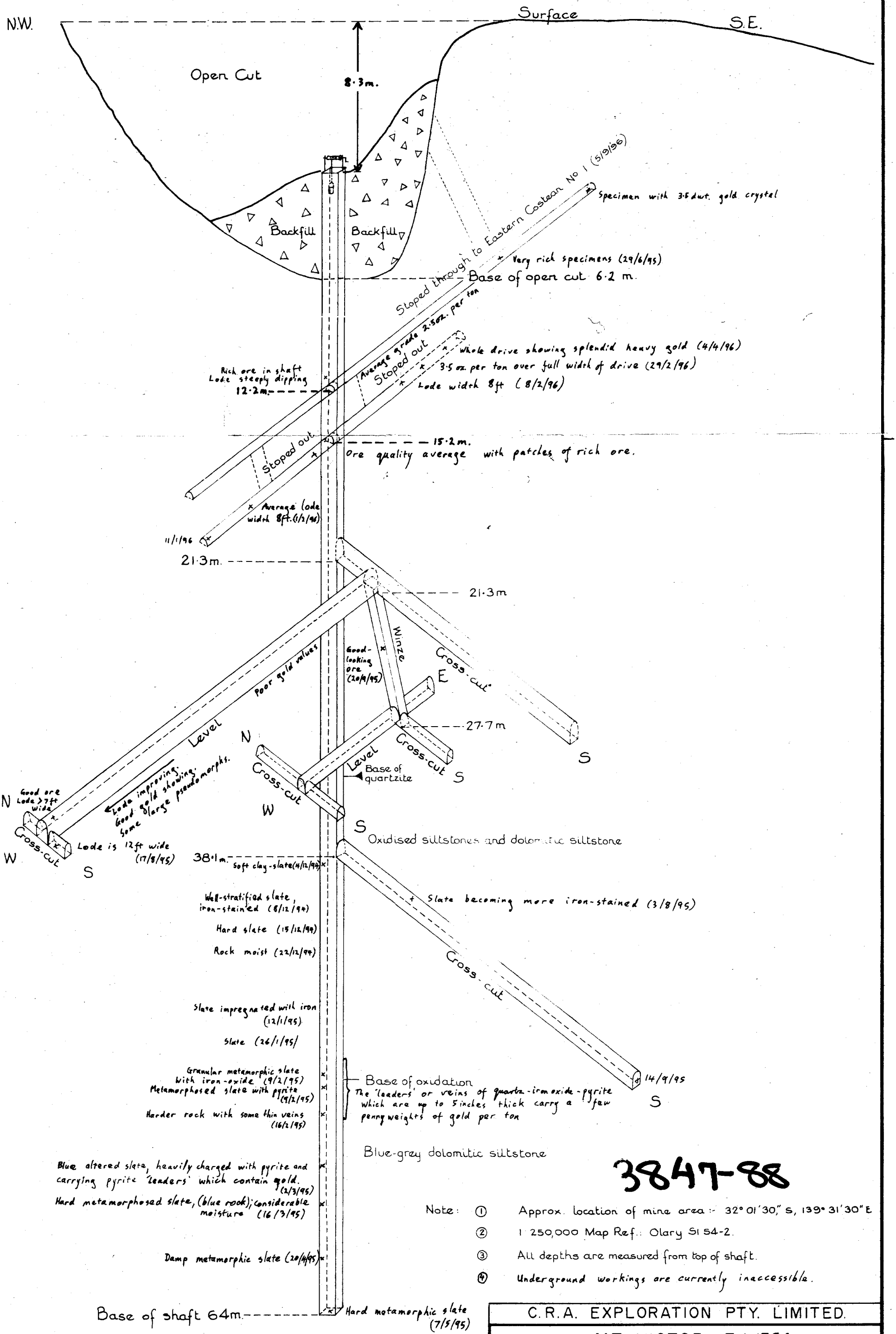
KIRKEEK'S TREASURE MINE, M.L. 4209.
MT VICTOR, E.L. 584
Geological Cross-section showing 80KTD2
4400E, Looking West.

Geol: T.E.M.	Scale 1:500	Report N°
Drawn: J.C.R.	Date: FEB., 1980	Plan N° SAa 386



3847-5

C.R.A. EXPLORATION PTY. LIMITED.		
MT. VICTOR, E.L. 584 KIRKEEK'S TREASURE MINE, M.L. 4244. *Geological Cross-section, 3977E, Looking West.* *(Showing Diamond Drill Hole: 80 KTD 3)* 1:250,000 Map Sheet Ref. OLARY SI54-2.		
Geol.: T.E.M.	Scale: 1:500	Date: MAY 1980.
Drawn: S.J.B.	Report No.:	Plan No.: SAa 437



3847-88

Note: ① Approx. location of mine area :- 32° 01' 30" S, 139° 31' 30" E

② 1:250,000 Map Ref.: Olary SI 54-2.

③ All depths are measured from top of shaft.

④ Underground workings are currently inaccessible.

Acknowledgement: Reconstruction is based on D.M.E. plans, sections and written records.
Notes are from S.A.D.M.E. Newspaper Report books.

C.R.A. EXPLORATION PTY. LIMITED.

MT. VICTOR E.L. 584
KIRKEEK'S TREASURE GOLD MINE
MAIN SHAFT & UNDERGROUND WORKINGS
3-D RECONSTRUCTION LOOKING N.E.

Geology: T.E.M.	Scale: 1:200	Date: 19-OCT., '79.
Drawn: D.R.W.	Report Nº:	Plan Nº: SAa 327.