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- 9 JUL 1984		E&IL
DEPT. OF MINES		
REF. No.	6659/84	

GEOPEKO

▲ DIVISION OF PEKO-WALLSEND OPERATIONS LIMITED

ANNUAL REPORT E.L. 7/83 & 8/83

MONTAGU

1983 SEASON

J. PEMBERTON
JUNE, 1984

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- 1. 1:500 000 LOCATION MAP E.L. 7/83 & 8/83
- 2. 1:100 000 MAGNETIC ANOMALIES DESIGNATIONS
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PLANS

- 1. 1:40 000 GEOLOGY & GEOCHEMICAL TRAVERSES
- 2. 1:40 000 AIRBORNE GEOPHYSICS
- 3. GRID PLAN OF BOGGY CREEK ANOMALY

1. INTRODUCTION

The two E.L.'s 7/83 & 8/83 in the Montagu district of far North West Tasmania cover an area of 250sq km each. Geopeko held the ground from 1981 as E.L. 25/80 (see Pemberton, 1983). As the work done this season was integrated across the E.L. boundaries it was decided to revue this work as one entity.

In 1981 Geopeko flew an aeromagnetic survey of the area. This was followed in 1982 by a series of geochemical traverses with a Jacro 200 rig mounted on a Muskeg Bombardier. Data from the auger holes was used to compile a geological and geochemical profile across the area. In conjunction with the aeromagnetics a map was compiled and the target sequence of lower Cambrian carbonates was explored in preference to the upper Cambrian sequences. Exploration was directed towards a tin/tungsten skarn model in the Cambrian aged carbonate sequences (see Plan 1).

Work was started in July 1983 along the Robbins Beach traverse and moved south to the A.F.H. forestry area. Geochemical anomalies were infilled along South Quartzite Road, Buckby's Road South and Redbank Road. A traverse across the middle of Woolnorth towards the coast followed by a short line over the Boggy Creek completed the season in November.

2. DISCUSSION OF GEOCHEMICAL TRAVERSES AND RESULTS

The various geochemical traverses are discussed in chronological order starting in the north on Robbins Beach. Samples were plotted on Plan 1 and results are attached in Appendix 1.

a) Robbins Beach

A total of 57 samples were collected at 50m intervals starting 600m east of the Robbins Crossing cattle yard. The traverse was to infill a number of geochemical anomalies in the lower carbonate unit.

Sample numbers TS 20851 to TS 20907 cover the traverse. Results from Appendix 1 show a number of elements with above background results. These results did not repeat the highs of 1982.

b) South Quartzite Road

58 samples were collected at 25m intervals in the lower silicified carbonates and black shales. Sample numbers were TS 20908 to TS 20965. Only two of these closely spaced samples were above background with 140ppm Cu and 360ppm Zn.

c) North Quartzite Road

10 samples were taken in the lower Cambrian at 50m intervals. Sample numbers were TS 20966 to TS 20975. One sample had 400ppm Cu but was an isolated high and not part of a trend.

- d) Buckby Road South
8 samples were taken on this traverse at 50m intervals. Sample numbers were TS 20976 to 20983. Results showed iron up to 38.7% with Zn of 420ppm. The anomalous iron of the initial sample was supported by this work.
- e) Redbank Road
8 samples were taken on Redbank Road at 50m intervals over a similar anomaly rich in Fe as that along Buckby Road South. Sample numbers were TS 20984 to 20991. Results showed one rich Fe sample (43.7%) with 360ppm Zn.
- f) Middle Woolnorth Traverse
A total of 43 samples were taken at 100m intervals. Sample numbers were TS 20992 to TS 21000 and TS 22101 to TS 22134. Results were disappointing with one high Fe (20.7%) sample having 560ppm Zn. The auger chips showed a sequence of silty carbonates and unconsolidated sediments.
- g) Boggy Creek Anomaly
A number of lines of ground magnetics were completed over this broad anomaly just north of the above traverse (see Plan 3 and Figure 3). One line of auger samples (9200E) were taken at 25m intervals. These results did not encourage any further work.

3.

CONCLUSION

The follow up results of the 1983 season downgraded those obtained in 1982. These results confirmed the presence of carbonates in the lower Cambrian with anomalous geochemistry.

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REFERENCES

Pemberton, J., 1983:

Annual Report E.L. 25/80,
Montagu, 1982 Season.

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APPENDIX

1. RESULTS FROM GEOCHEMICAL TRAVERSES

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Ph 07 3525577
TELEX ALSEV 42344



Batch No.: J030-1 Client: GEOPEKO LIMITED, Area Contact: MR. J. PEMBERTON
Address: P.O. BOX 217, GORDON, Address: P.O. BOX 598
Date Received 07/09/83 2072 DEVONPORT, TAS. 7310
Date Completed 14/09/83 N.S.W.
Order No.: K 549, KP 314? Sample Type: SOIL No. of Samples: 57

SAMPLE NO.	Ba	ELEMENTS
	m	UNITS
	XRF 1A	METHODS
TS 20851	280	
TS 20852	530	
TS 20853	540	
TS 20854	90	
TS 20855	460	
TS 20856	90	
TS 20857	90	
TS 20858	60	
TS 20859	60	
TS 20860	70	
TS 20861	80	
TS 20862	60	
TS 20863	60	
TS 20864	70	
TS 20865	70	
TS 20866	270	
TS 20867	290	
TS 20868	530	
TS 20869	590	
TS 20870	690	
TS 20871	250	
TS 20872	110	
TS 20873	450	
TS 20874	190	
TS 20875	360	
TS 20876	660	
TS 20877	0.13 %	
TS 20878	100	
TS 20879	80	
TS 20880	100	

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g - Grams a - Absorbance

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Batch No.: J153 Client: GEOPEKO LIMITED. Area Contact: MR. J. PEMBERTON
Address: P.O. BOX 217, GORDON. Address: P.O. BOX 598
Date Received 26/09/83 Date Completed 29/09/83
N.S.W. 2072 DEVONPORT, TAS. 7310

Order No.: K 550, KP 3150 Sample Type: SOIL & ROCK No. of Samples: 58

SAMPLE NO.	Cu	Pb	Zn	Fe	Ag	Cr	Ni	As	Sn	W	ELEMENTS UNITS METHODS
	m	m	m	%	m	m	m	m	m	m	
	G001	G003	XRF 1A	XRF 1A							
TS 20908	90	20	50	3.65	2	40	75	<20	<5	<10	
TS 20909	140	30	30	2.95	3	25	40	<20	5	<10	
TS 20910	85	30	35	2.96	2	30	45	20	<5	<10	
TS 20911	100	15	25	0.59	1	20	30	<20	<5	<10	
TS 20912	95	25	20	1.57	1	25	30	<20	<5	<10	
TS 20913	80	20	15	0.66	1	15	20	<20	<5	<10	
TS 20914	95	30	45	1.24	1	15	25	<20	<5	<10	
TS 20915	65	15	15	0.51	1	65	20	<20	<5	<10	
TS 20916	115	35	25	3.29	1	30	40	<20	<5	<10	
TS 20917	85	20	35	4.48	1	30	65	20	<5	<10	
TS 20918	50	20	120	3.72	1	40	140	80	<5	<10	
TS 20919	30	10	75	2.09	1	25	50	40	<5	<10	
TS 20920	10	10	20	0.20	1	20	15	<20	<5	<10	
TS 20921	50	20	100	3.98	1	30	100	<20	<5	<10	
TS 20922	50	20	340	11.4	2	65	240	40	<5	<10	
TS 20923	40	30	280	10.3	2	45	170	20	<5	<10	
TS 20924	50	20	360	10.4	1	50	400	40	<5	<10	
TS 20925	45	20	320	9.92	2	60	260	20	<5	<10	
TS 20926	45	25	165	6.49	2	40	150	20	<5	<10	
TS 20927	50	20	70	5.31	1	45	75	20	<5	<10	
TS 20928	65	20	85	9.42	1	40	50	20	5	<10	
TS 20929	65	25	190	7.74	1	65	145	40	<5	<10	
TS 20930	80	25	250	5.22	2	35	185	20	<5	<10	
TS 20931	50	20	135	3.34	1	35	80	<20	<5	<10	
TS 20932	10	5	10	0.35	<1	360	15	<20	<5	<10	
TS 20933	5	5	10	0.49	<1	500	20	<20	<5	10	
TS 20934	5	10	10	0.46	<1	490	20	<20	<5	20	
TS 20935	10	10	15	0.60	<1	220	25	<20	<5	<10	
TS 20936	5	25	15	0.33	<1	180	25	<20	<5	<10	
TS 20937	2	<5	10	0.17	1	210	5	<20	<5	20	

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g - Grams a - Absorbance



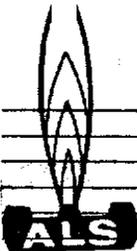
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TELEX ALSEV 42344

LABORATORY REPORT

Batch No.: K160 Client: GEOPEKO LIMITED, Area Contact: MR. J. PEMBERTON
Address: P.O. BOX 217, Address: P.O. BOX 598
Date Received 25/10/83 GORDON, DEVONPORT, TAS. 7310
Date Completed 03/11/83 N.S.W. 2072
Order No.: K 853, KP 3311 Sample Type: SOIL & ROCK No. of Samples: 56

SAMPLE NO.	Cu	Pb	Zn	Fe	Ag	Cr	Ni	As	Sn	W	ELEMENTS UNITS METHODS
	m	m	m	%	m	m	m	m	m	m	
	G001	G003	XRF 1A	XRF 1A							
TS 20998	60	40	85	7.02	1	160	430	<20	<5	<10	
TS 20999	55	35	65	5.78	1	650	440	<20	<5	<10	
TS 20100	55	35	85	6.86	1	710	500	<20	<5	<10	
TS 22101	55	30	70	6.90	1	170	390	<20	<5	10	
TS 22102	35	40	60	4.98	<1	350	370	<20	<5	<10	
TS 22103	60	35	75	6.99	1	170	420	<20	<5	10	
TS 22104	35	30	60	4.97	<1	175	330	<20	<5	10	
TS 22105	45	35	65	5.66	<1	155	370	<20	<5	<10	
TS 22106	50	30	70	6.26	1	210	360	<20	5	10	
TS 22107	65	35	80	6.59	1	180	440	<20	<5	10	
TS 22108	30	25	40	4.39	1	170	260	40	<5	<10	
TS 22109	50	30	70	6.91	<1	220	420	<20	<5	<10	
TS 22110	60	35	210	5.54	1	165	0.11	% <20	<5	10	
TS 22111	5	40	10	0.68	<1	130	35	20	<5	10	
TS 22112	5	30	10	0.27	1	115	5	<20	<5	10	
TS 22113	170	25	85	6.30	2	0.23	% 590	<20	5	10	
TS 22114	50	20	60	5.50	1	110	300	<20	<5	10	
TS 22115	45	20	65	6.00	2	290	410	<20	<5	10	
TS 22116	15	20	25	2.61	1	290	120	40	<5	20	
TS 22117	60	20	80	7.30	2	580	540	<20	<5	10	
TS 22118	90	30	65	8.20	3	230	260	20	<5	<10	
TS 22119	50	20	70	6.01	2	470	410	<20	<5	10	
TS 22120	60	30	70	5.13	3	260	380	<20	<5	<10	
TS 22121	5	30	15	0.46	2	50	25	20	<5	<10	
TS 20966	50	30	50	1.88	1	75	90	20	<5	<10	
TS 20967	30	25	80	1.34	2	35	85	20	<5	10	

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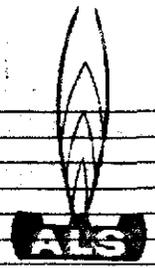
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Batch No.: K160-1 Client: GEOPEKO LIMITED Area Contact: MR. J. PEMBERTON
 Address: P.O. BOX 217, Address: P.O. BOX 598
 Date Received 25/10/83 GORDON, DEVONPORT, TAS. 7310
 Date Completed 03/11/83 N.S.W. 2072

Order No.: K 853, KP 3311 Sample Type: SOIL & ROCK No. of Samples: 56

SAMPLE NO.	Ba	ELEMENTS
	m	UNITS
	XRF 1A	METHODS
TS 20968	70	
TS 20969	50	
TS 20970	90	
TS 20971	50	
TS 20972	120	
TS 20973	140	
TS 20974	90	
TS 20975	80	
TS 20976	280	
TS 20977	280	
TS 20978	220	
TS 20979	120	
TS 20980	100	
TS 20981	200	
TS 20982	240	
TS 20983	260	
TS 20984	20	
TS 20985	200	
TS 20986	130	
TS 20987	260	
TS 20988	210	
TS 20989	950	
TS 20990	210	
TS 20991	110	
TS 20992	50	
TS 20993	90	
TS 20994	70	
TS 20995	90	
TS 20996	270	
TS 20997	340	

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Batch No.: K160-1 Client: GEOPEKO LIMITED. Area Contact: MR. J. PEMBERTON
Address: P.O. BOX 217. Address: P.O. BOX 598
Date Received 25/10/83 GORDON, DEVONPORT, TAS. 7310
Date Completed 03/11/83 N.S.W. 2072
Order No.: K 853, KP 3311 Sample Type: SOIL & ROCK No. of Samples: 56

SAMPLE NO.	Ba	ELEMENTS
	m	UNITS
	XRF 1A	METHODS
TS 20998	240	
TS 20999	180	
TS 20100	410	
TS 22101	250	
TS 22102	150	
TS 22103	270	
TS 22104	220	
TS 22105	240	
TS 22106	320	
TS 22107	290	
TS 22108	240	
TS 22109	250	
TS 22110	260	
TS 22111	60	
TS 22112	80	
TS 22113	230	
TS 22114	170	
TS 22115	160	
TS 22116	90	
TS 22117	240	
TS 22118	200	
TS 22119	220	
TS 22120	200	
TS 22121	70	
TS 20966	100	
TS 20967	80	

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Computer Resources Limited

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LABORATORY REPORT

Batch No.: L167 Client: GEOPEKO LIMITED, Area Contact: MR. J. PEMBERTON
Address: P.O. BOX 217, GORDON. Address: P.O. BOX 598
Date Received 22/11/83 DEVONPORT. TAS. 7310
Date Completed 30/11/83 N.S.W. 2072

Order No.: K 854, KP3321 Sample Type: ROCK & SOIL No. of Samples: 13

SAMPLE NO.	Cu	Pb	Zn	Ag	Fe	Cr	Ni	As	Sn	W	ELEMENTS
	m	m	m	m	%	m	m	m	m	m	UNITS
	G001	G001	G001	G001	G001	E001	G001	G002	XRF 1A	XRF 1A	METHODS
TS 22122	2	20	5	1	0.38	165	20	<20	<5	10	
TS 22123	30	20	90	2	6.65	230	390	<20	<5	<10	
TS 22124	2	25	15	2	0.67	70	50	20	<5	<10	
TS 22125	2	20	10	1	0.47	260	20	<20	<5	20	
TS 22126	2	55	15	2	0.28	80	35	20	<5	<10	
TS 22127	2	65	20	2	0.68	50	40	<20	<5	<10	
TS 22128	2	30	15	3	0.87	50	45	<20	<5	<10	
TS 22129	10	25	15	2	0.65	30	45	<20	<5	<10	
TS 22130	5	30	15	2	0.46	25	35	<20	<5	<10	
TS 22131	5	25	15	2	0.45	55	40	20	<5	<10	
TS 22132	2	25	15	2	0.36	50	30	20	<5	<10	
TS 22133	5	20	25	2	1.81	105	50	<20	<5	10	
TS 22134	5	20	25	2	1.11	80	50	<20	<5	<10	

Computer - Mervyn Campbell

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Batch No.: L167-1 Client: GEOPEKO LIMITED, Area Contact: MR. J. PEMBERTON
 Address: P.O. BOX 217, Address: P.O. BOX 598
 Date Received 22/11/83 GORDON, DEVONPORT, TAS. 7310
 Date Completed 30/11/83 N.S.W. 2072

Order No.: K 854, KP3321 Sample Type: ROCK & SOIL No. of Samples: 13

SAMPLE NO.	Ba	ELEMENTS
	m	UNITS
	XRF 1A	METHODS
TS 22122	90	
TS 22123	260	
TS 22124	100	
TS 22125	90	
TS 22126	90	
TS 22127	100	
TS 22128	100	
TS 22129	80	
TS 22130	90	
TS 22131	110	
TS 22132	90	
TS 22133	100	
TS 22134	100	

Computer Assisted Analysis

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TELEX ALSEV 42344



Batch No.: M094 Client: GEOPEKO LIMITED Area Contact: MR. J. PEMBERTON
 Address: P.O. BOX 217, Address: P.O. BOX 598
 Date Received 15/12/83 GORDON, DEVONPORT, TAS. 7310
 Date Completed 20/12/83 N.S.W. 2072

Order No.: KP 3329, K 857 Sample Type: SOIL & ROCK No. of Samples: 12

SAMPLE NO.	Cu	Pb	Zn	Ag	Fe	Cr	Ni	As	Sn	W	ELEMENTS
	g	g	g	g	%	g	g	g	g	g	UNITS
	G001	G003	XRF 1A	XRF 1A	METHODS						
TS 140471	45	20	70	3	5.01	680	340	<20	<5	<10	
TS 140472	35	20	70	3	4.59	950	330	<20	5	<10	
TS 140473	115	25	90	2	5.90	460	420	<20	<5	10	
TS 140474	50	20	80	2	5.89	210	460	<20	<5	<10	
TS 140475	60	20	95	2	7.47	165	350	<20	<5	<10	
TS 140476	70	30	75	2	5.29	250	370	<20	<5	<10	
TS 140477	35	20	65	2	5.30	750	310	<20	<5	<10	
TS 140478	65	30	90	2	6.10	220	320	<20	<5	<10	
TS 140479	35	20	70	2	5.85	980	340	<20	<5	<10	
TS 140480	55	25	90	2	6.19	190	360	<20	<5	<10	
TS 140481	50	30	90	2	5.75	640	370	<20	<5	<10	
TS 140482	65	25	80	2	6.35	280	480	<20	<5	<10	

Computer Resources Company

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LABORATORY REPORT

Ph 07 3525577
TELEX ALSEV 42344



Batch No.: M094-1 Client: GEOPEKO LIMITED, Area Contact: MR. J. PEMBERTON
 Address: P.O. BOX 217, Address: P.O. BOX 598
 Date Received 15/12/83 GORDON, DEVONPORT, TAS. 7310
 Date Completed 20/12/83 N.S.W. 2072

Order No.: KP 3329, K 857 Sample Type: SOIL & ROCK No. of Samples: 12

Computer Services Company

SAMPLE NO.	Ba	ELEMENTS
	g	UNITS
	XRF 1A	METHODS
TS 140471	440	
TS 140472	360	
TS 140473	300	
TS 140474	90	
TS 140475	190	
TS 140476	150	
TS 140477	110	
TS 140478	140	
TS 140479	120	
TS 140480	130	
TS 140481	110	
TS 140482	80	

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 g - Grams a - Absorbance

Signature: *G.J. Kilmister*

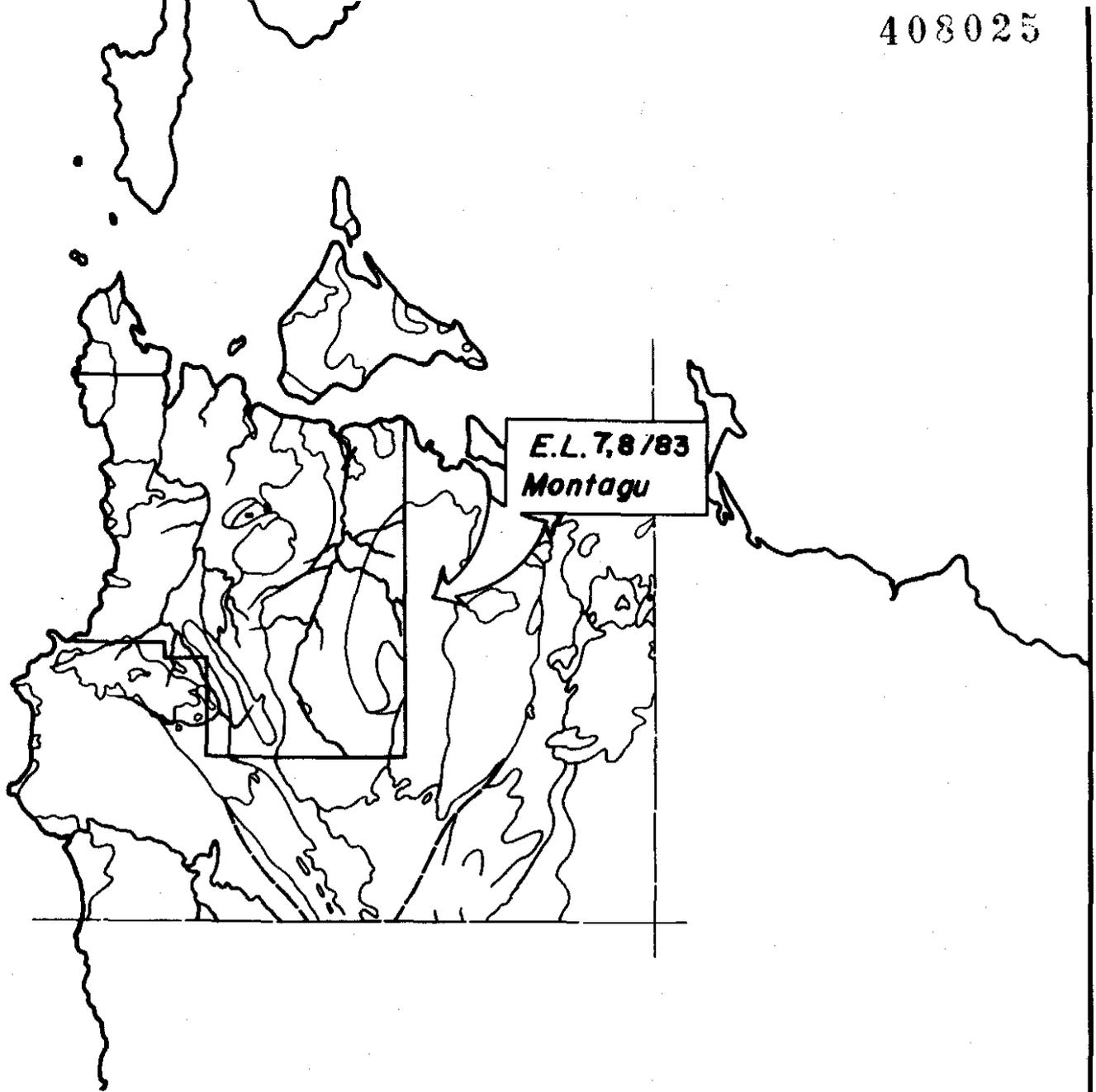


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LEGEND

QUATERNARY — [] Alluvium

TERTIARY — [] Basalt

CAMBRIAN — [] Basic-intermediate volcanics dominantly

[] Unfossiliferous greywacke turbidite sequences

[] Dolomite

PRECAMBRIAN — [] Orthoquartzites

5 cm

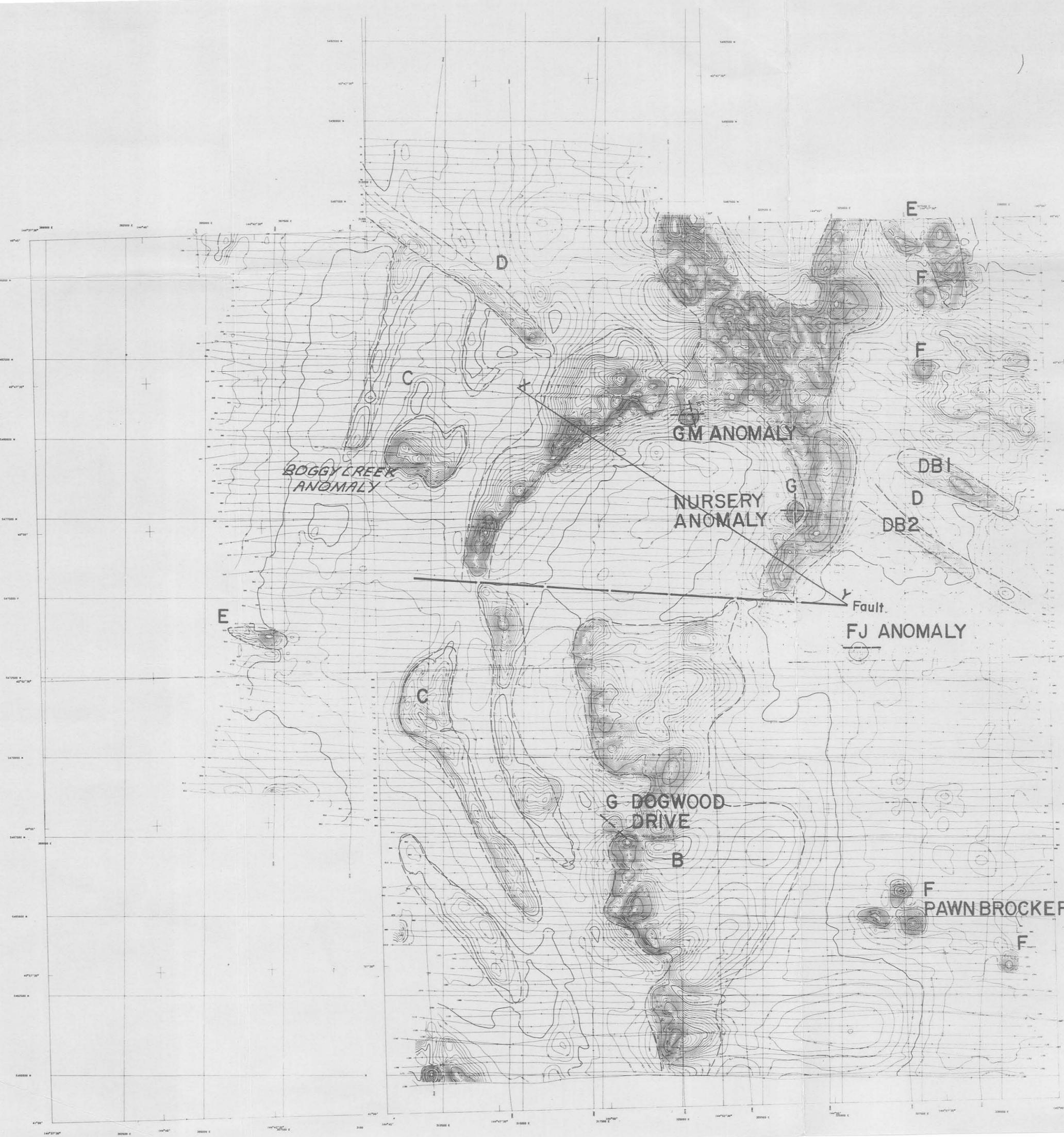
FIGURE I.

0 10 20 30

Kilometres

SCALE 1:500 000

**LOCALITY & REGIONAL
GEOLOGY FOR E.L. ^{7/83}~~8/83~~**



BURNIE SK 55/3
 WELCOME 7816-II-NE
 GEOPEKO
 SCALE 1:25000
 AUSTRALIAN MAP GRID
 LOCATION INDEX
 TRANSVERSE MERCATOR PROJECTION
 MONTAGU
 AIRBORNE GEOPHYSICAL SURVEY
 Total Magnetic Field
 SURVEY PARAMETERS
 Nominal flight line separation: 250m with 2.5km tie-lines
 Nominal terrain clearance: 120m
 Nominal data spacing along flight lines: 70m
 Navigation and recovery by conventional photography
 Aircraft: Austrex Nomad N22B
 Contour Interval: 10 nT
 International Geomagnetic Reference Field subtracted prior to contouring
 Survey Date: August 1980
 Surveying, Mapping, Photogrammetry & Map Interpretation by Australia Survey Systems Pty Ltd
 Project Management by Geopark (geophysics) Division

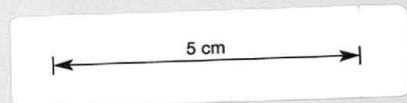
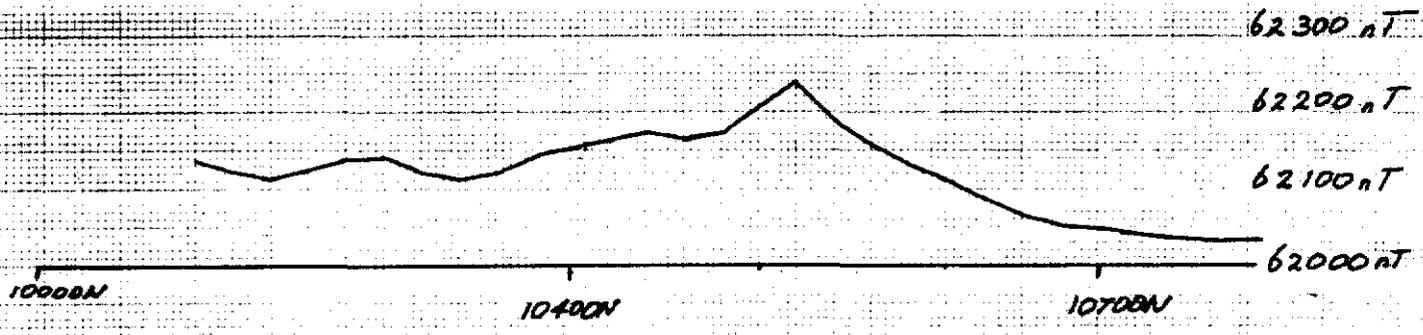


FIG 32
 E.L.7/B3, B/B3 MONTAGU
 Magnetic Anomaly
 Designations
 Scale 1:100 000
 1129
 84-2148
 408026
 TS 25/80 - 14

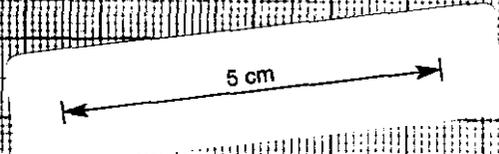
5 cm

BOGGY CREEK ANOMALY
PROFILE OF T.M.I
LINE 9000E

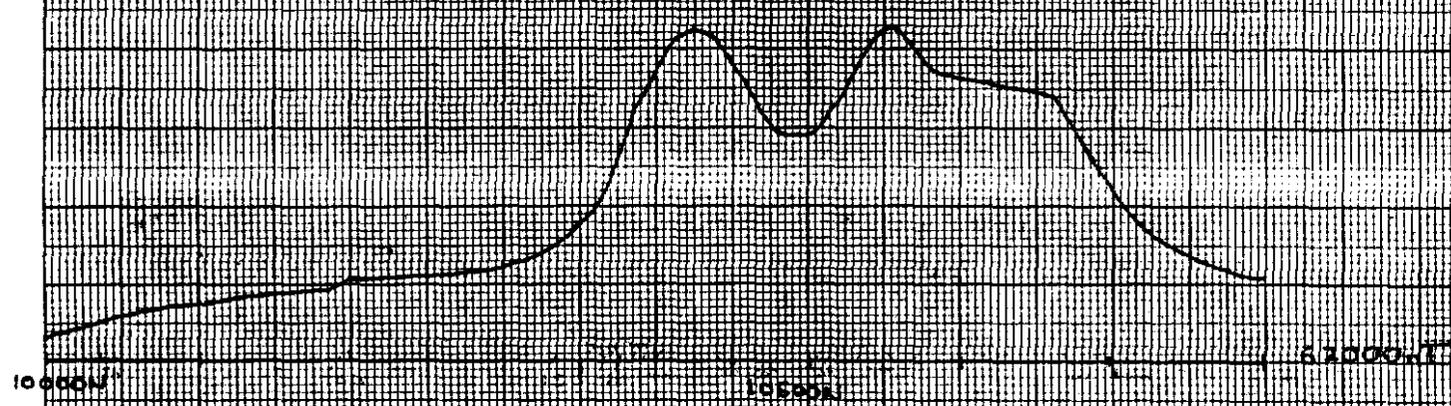
MS 1:5000
VS 1cm = 100nT



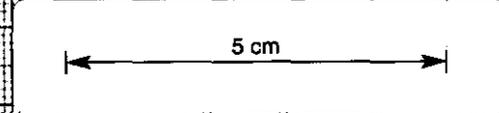
BOGGY CREEK ANOMALY
PROFILE DEPTH
LINE 9200E



MS 1:5000
VS 1cm = 100mT



408028



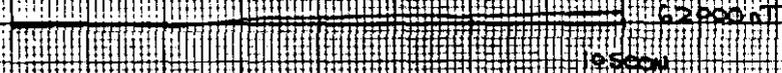
BOGGY CREEK ANOMALY

PROFILE OF T.M.F.

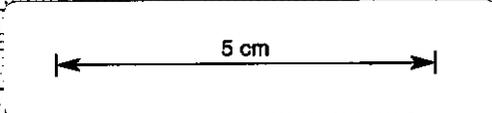
LINE 8800E

HS 15000

VS 1cm = 100nT

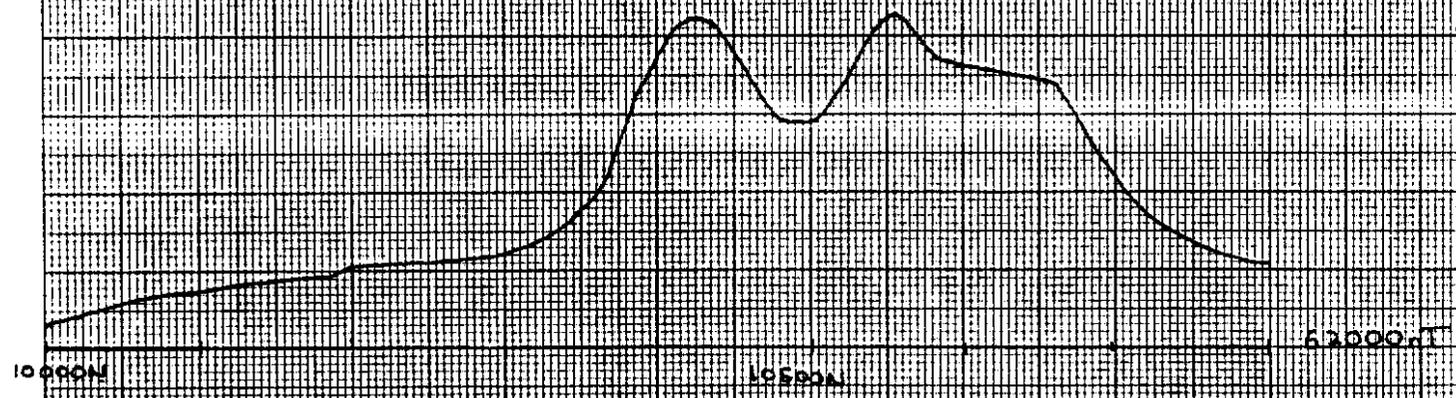


0.4 nT

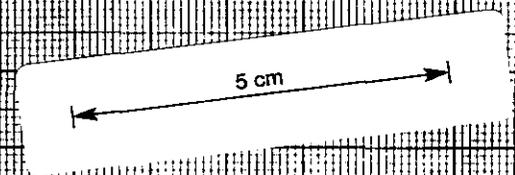


BOGGY CREEK ANOMALY
 PROFILE OF M.T
 LINE 9200E

HS 1:5000
 VS 1cm = 100nT



ANOMALY



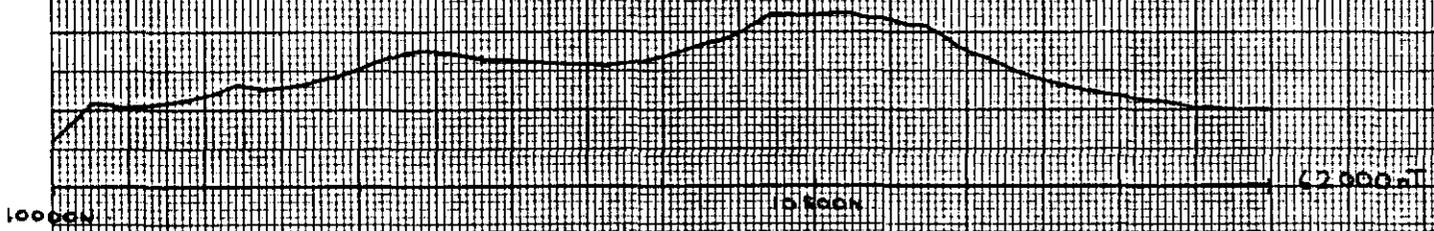
BOGGY CREEK ANOMALY

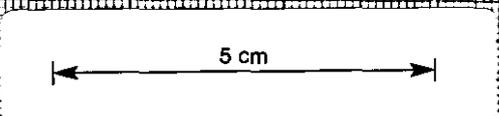
PROFILE OF T.M.T

LINE 9600E

HS 1:5000

VS 1cm=100mT





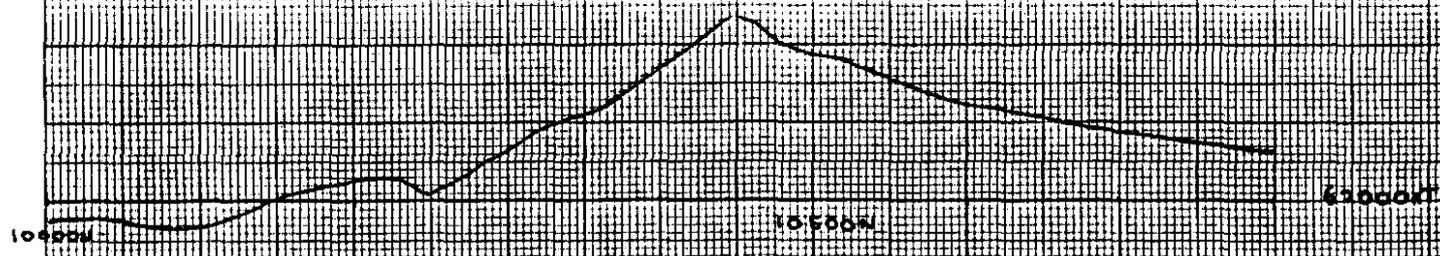
BOGGY CREEK ANOMALY

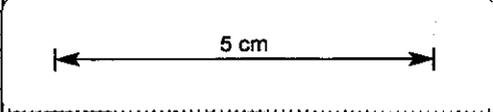
PROFILE OF T.M.I

LINE 10000E

H.S. 1:5000

V.S. 1cm = 100m





BOGGY CREEK ANOMALY

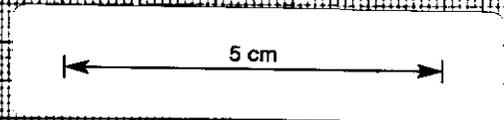
PROFILE OF T.M.T

LINE 10400N

MS 1:5000

VS 1cm = 100mT





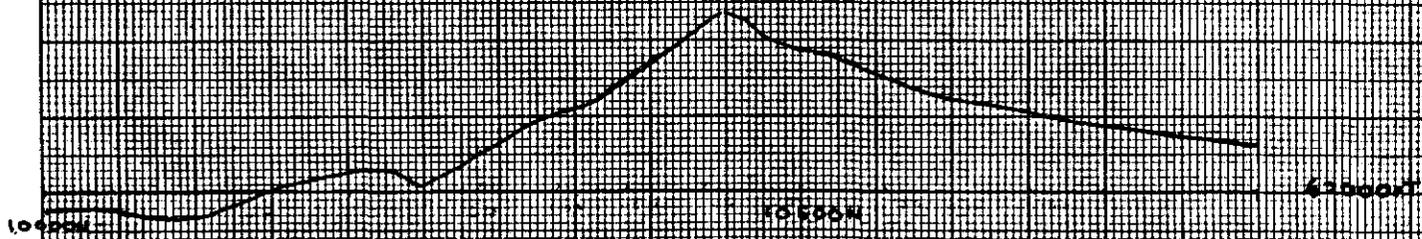
BOGGY CREEK ANOMALY

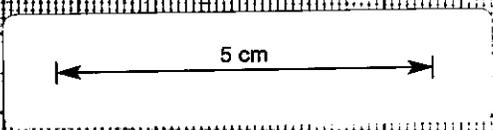
PROFILE OF T.M.I.

LINE 10000E

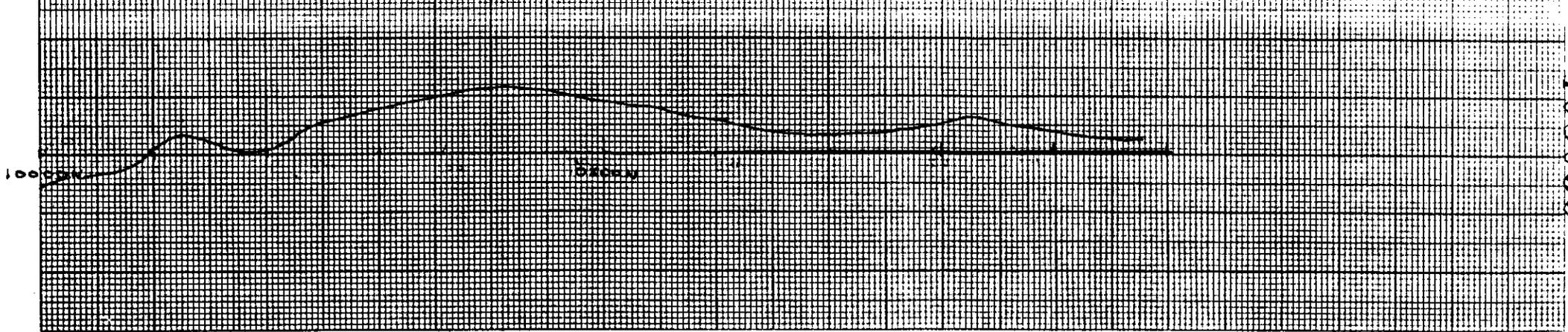
H.S. 1-5000

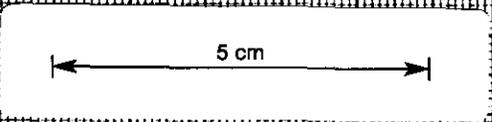
V.S. 1 cm = 100 FT



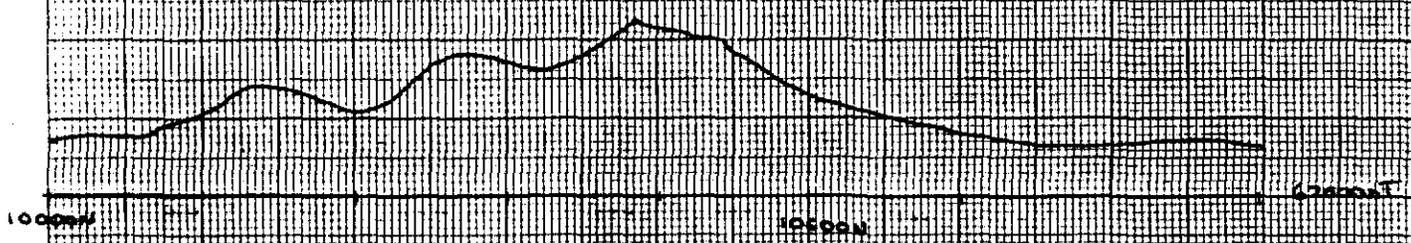


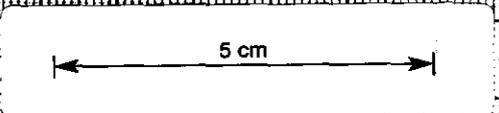
BOLEY CREEK ANOMALY
 PROFILE OF T.M.T.
 LINE 100000
 NS 1:5000
 VA 1km = 100m





BOSCH CREEK ANCHORAGE
PROFILE OF T.M.T.
LINE 10+00 TO E
V.S. 1:5000
V.S. 1cm = 100m T





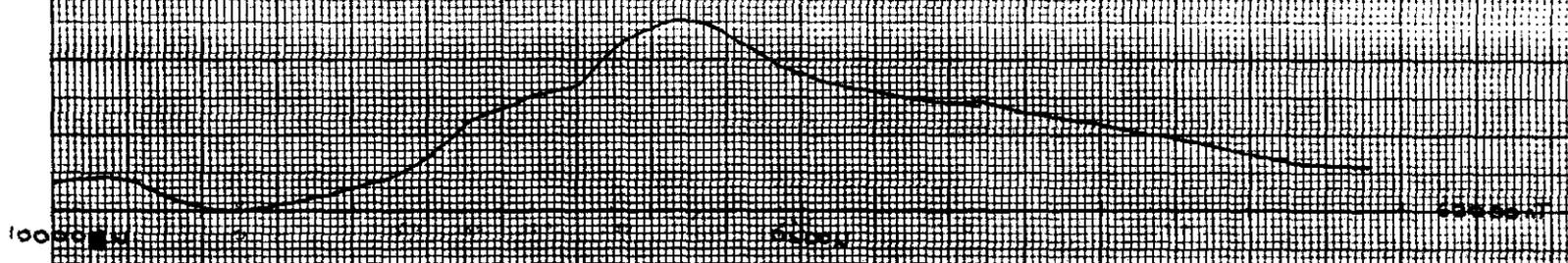
BOGGY CREEK ANOMALY

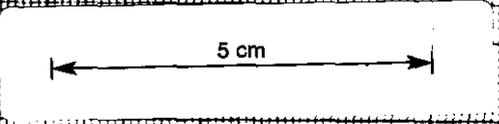
PROFILE OF T.M.F

LINE 28000

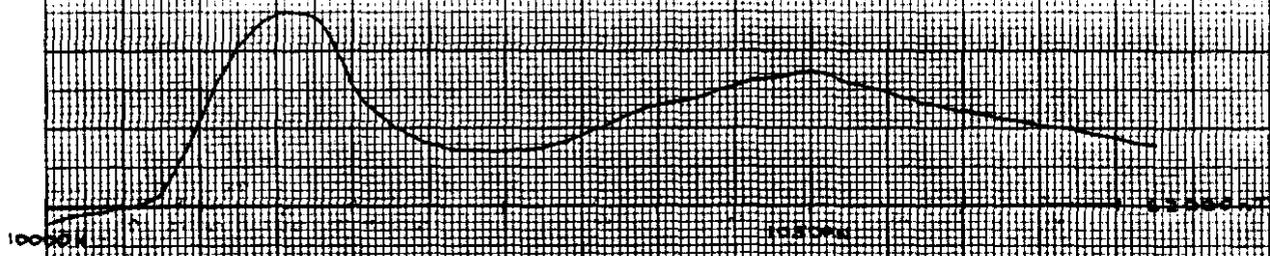
MS 1:5000

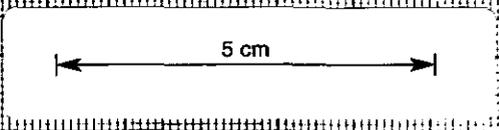
15 km - 400m



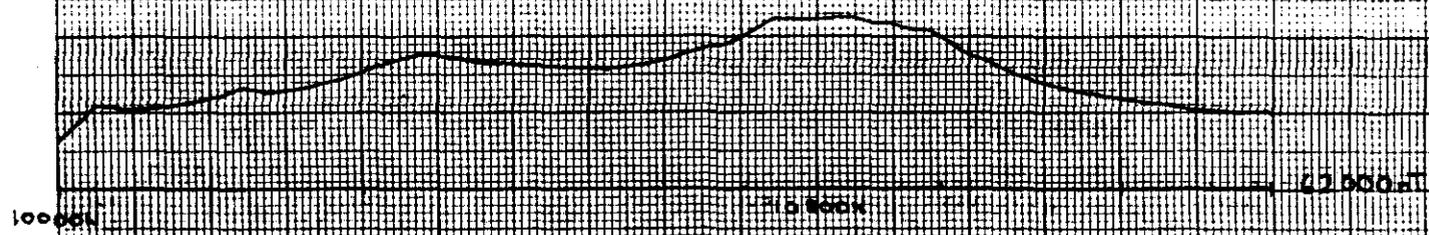


BOGGER CREEK ANOMALY
PROFILE OF T.M.I.
LINE 90500
NS 15000
VS 1cm=1000F





BODDY CREEK BRIDGWAY
 PROFILE OF T.M. 1
 LINE 9000E
 HS 1:5000
 VS 1:10000



038

HEWLETT-PACKARD 9270 124

