

**SOUTH AUSTRALIA**  
**DEPARTMENT OF MINES AND ENERGY**



**OPEN FILE ENVELOPE NO. 5987**

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TENEMENT: E.L. 1266 Cummins.

TENEMENT HOLDER: CSR Limited.

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**Aluminium, Minerals And  
Chemicals Division**

**ALUMINIUM, MINERALS AND  
CHEMICALS DIVISION**

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**P.O. BOX 259  
GLENSIDE S.A. 5065**

**PHN: 271 2400**

10 April, 1985  
Ref: JLC/SR

Director-General,  
Department of Mines & Energy,  
P.O. Box 151,  
Eastwood S.A. 5063

Dear Sir,

EXPLORATION LICENCE 1266, CUMMINS  
FIRST QUARTERLY REPORT  
PERIOD ENDED 9TH MARCH, 1985


Exploration Licence No. 1266 was granted to CSR Limited on the 10th December, 1984 for a period of 12 months.

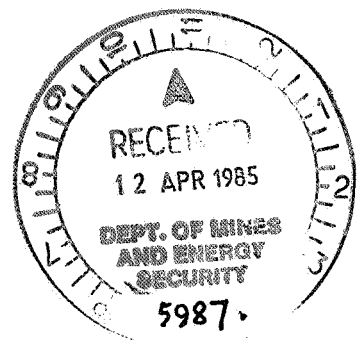
During the period regional geophysical and geological assessment was carried out. This work focussed on a number of north-north easterly trending magnetic linear features which have little or no outcrop expression.

A number of traverse lines along east-west trending roads were selected for follow up investigations. During the current period, field inspections and ground magnetic profiles were run over 19 of these traverses.

An expenditure totalling \$16,496 was incurred as detailed in the attached expenditure statement.

Yours faithfully,

  
David Brunt  
Regional Manager  
Central Region



EXPLORATION LICENCE NO. 1266, CUMMINSEXPENDITURE STATEMENT FOR QUARTER ENDED 9 MARCH, 1985(PERIOD 10 DECEMBER, 1984 TO 28 FEBRUARY, 1985)

Geological and Geophysical \$ 6,337

Logistics Expenses

Vehicle Operations	\$ 269	
Regional Office Costs	1052	
Equipment Rent	675	
Drafting	515	
Travel	2008	
Field Camp Supplies	130	
Data Processing	322	
Freight	11	
Temporary Wages	1296	
Surveys etc.	<u>353</u>	\$ 6,631

Administration \$ 3,528

TOTAL \$16,496



# Minerals Exploration and Development Group

CSR LIMITED  
PO BOX 259  
GLENSIDE SA 5065 AUSTRALIA  
TELEPHONE 08 271 2400  
TELEX AA89710

22 August, 1985

Director-General,  
Department of Mines & Energy,  
P.O. Box 151,  
Eastwood S.A. 5063

Dear Sir,

## EXPLORATION LICENCE 1266, CUMMINS SECOND QUARTERLY REPORT PERIOD ENDED 9TH JUNE, 1985

Exploration Licence No. 1266 was granted to CSR Limited on the 10th December, 1984 for a period of 12 months.


Based on earlier ground magnetic profiles a RAB drilling programme was carried out during April-early May. Eighty holes were drilled on 14 traverses across magnetic trends believed to represent banded iron formations. Rock chip samples, regional rock type samples and drill cuttings were submitted for analysis for a range of elements typically enhanced in base metal deposits within this environment.

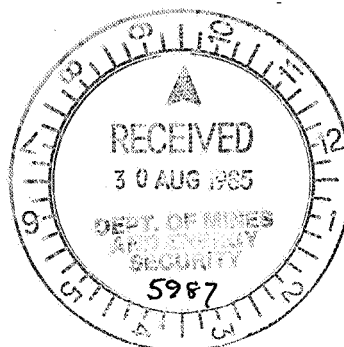
Preliminary examination of the petrological data supports the existence of correlation between BIF and magnetic anomalies. However geochemical analyses have proven more difficult to interpret.

Based upon a multi-element profile through the weathered zone in one drill hole, a multiplicity of correlations between elements exists. The variability of values within the various zones casts doubt on the significance of single samples. Irrespective of this problem, the values obtained are generally less anomalous than those obtained elsewhere in the Eyre Peninsula.

During the current period \$53,133 was expended mainly on drilling. Details are shown on the attached expenditure statement.

Yours faithfully,

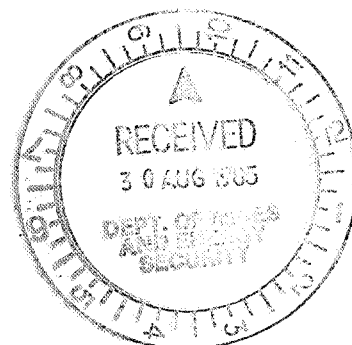
  
David Brunt  
Regional Manager  
Central Region



REF.: 5428

EXPLORATION LICENCE NO. 1266, CUMMINS  
EXPENDITURE STATEMENT FOR QUARTER ENDED 9 JUNE, 1985  
(PERIOD 1 MARCH TO 31 MAY, 1985)

<u>Geological and Geophysical</u>		\$9,710
<u>Drilling</u>		\$18,680
<u>Logistics Expenses</u>		
Vehicle Operations	\$1,259	
Regional Office Costs	9,406	
Equipment Rent	340	
Drafting	18	
Travel	1,342	
Field Camp Supplies	491	
Data Processing	10	
Freight	100	
Temporary Wages	2,933	
Mobilisation	<u>26</u>	\$15,925
<u>Administration</u>		<u>\$8,818</u>
<u>TOTAL</u>		<u>\$53,133</u>



**Minerals Exploration and  
Development Group**

CSR LIMITED  
PO BOX 259  
GLENSIDE SA 5065 AUSTRALIA  
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Ref: 7.46/JLC/SR

25 October, 1985

Director-General,  
Department of Mines & Energy,  
P.O. Box 151,  
Eastwood S.A. 5063

Dear Sir,

**EXPLORATION LICENCE 1266, CUMMINS**  
**THIRD QUARTERLY REPORT**  
**PERIOD ENDED 9TH SEPTEMBER, 1985**

Exploration Licence No. 1266 was granted to CSR Limited on the 10th December, 1984 for a period of 12 months.

During the quarter consideration was given to revealing the base metal deposit model and the exploration strategy appropriate for exploration in the Southern Eyre Peninsula. No field work was undertaken.

Expenditure during the quarter totalled \$10,392. Details are shown on the attached expenditure statement.

Yours faithfully,



David Brunt  
Regional Manager  
Central Region



Ref: 5428

EXPLORATION LICENCE NO. 1266, CUMMINS  
EXPENDITURE STATEMENT FOR QUARTER ENDED SEPTEMBER 9, 1985  
(PERIOD JUNE 1 TO AUGUST 31, 1985)

Geological and Geophysical \$ 1,365

Logistics Expenses

Vehicle Operations	\$ 623	
Equipment Rent	1,685	
Drafting	21	
Travel	923	
Field Camp Supplies	124	
Data Processing	79	
Freight	47	
Temporary Wages	103	
Mobilisation	116	
Geochemical Analysis	4,168	
Sundry	<u>128</u>	\$ 8,017

Administration 1,010

TOTAL \$10,392



**Minerals Exploration and  
Development Group**

CSR LIMITED  
PO BOX 259  
GLENSIDE SA 5065 AUSTRALIA  
TELEPHONE 08 271 2400  
TELEX AA89710

Ref: 8.82/JLC/SR

24th December, 1985

Director-General,  
Department of Mines & Energy,  
P.O. Box 151,  
Eastwood S.A. 5063

Dear Sir,

**EXPLORATION LICENCE 1266, CUMMINS**  
**FOURTH QUARTERLY REPORT**  
**PERIOD ENDED 9TH DECEMBER, 1985**


Exploration Licence No. 1266 was granted to CSR Limited on the 10th December, 1984 for a period of 12 months.

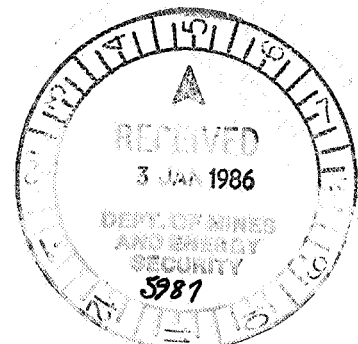
During the quarter a review of the results of base metal exploration in the Eyre Peninsula and in the Cummins area concluded that further work on EL 1266 was not warranted. As a result title to EL 1266 was allowed to expire on 9th December, 1985.

Reporting of details of exploration programmes carried out earlier this year will be compiled and forwarded in due course.

Expenditure during the quarter totalled \$1,338. Details are shown on the attached expenditure statement.

Yours faithfully,

  
David Brunt  
Regional Manager  
Central Region



Ref. : 5428

010

EXPLORATION LICENCE NO. 1266, CUMMINS  
EXPENDITURE STATEMENT FOR FINAL QUARTER ENDED  
DECEMBER 9, 1985  
(PERIOD SEPTEMBER 1 TO NOVEMBER 30, 1985)

GEOLOGICAL AND GEOPHYSICAL

\$ 730

LOGISTICAL EXPENSES

Vehicle Operations	\$	50
Drafting	\$	6
Travel	\$	36
Field Camp Supplies	\$	110
Regional Office Costs	\$	250

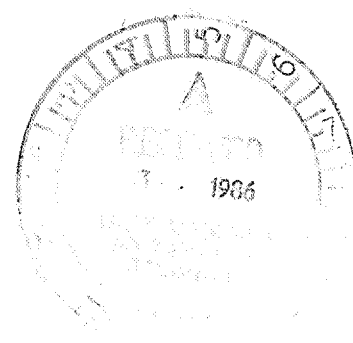
\$ 452

ADMINISTRATION

\$ 156

TOTAL

\$1,338



CSR LIMITED  
MINERALS EXPLORATION AND DEVELOPMENT GROUP

011

RELINQUISHMENT REPORT FOR  
EXPLORATION LICENCE 1266  
CUMMINS AREA, SOUTH AUSTRALIA

VOLUME 1

EMR 170/86

D.G. Tonkin  
Consulting Geologist  
J.L. Curtis  
MEDG - Adelaide

October, 1986

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**KEYWORDS**

SOUTH AUSTRALIA

EL 1266

CUMMINS

SI 53-11

SI 53-7

HUTCHISON GROUP

GROUND MAGNETICS

GEOCHEMISTRY

PETROLOGY

ROTARY DRILLING

LEAD-ZINC

BANDED IRON FORMATION

1. SUMMARY

EL 1266 was selected for base metal exploration because linear aeromagnetic anomalies in the Cummins area were interpreted as BIF horizons within the Lower Proterozoic Hutchison Group, covered by a veneer of younger sediments. The interpreted BIF's and related chemical sediments were believed to be potential host rocks for stratiform lead-zinc sulphide deposits.

Selected linear magnetic trends were investigated by ground magnetic surveys, RAB drilling, geochemistry and petrography.

The horizons tested proved to be gneisses of sedimentary origin, meta-quartzites representing chemical sediments, including BIF's, and amphibolites. Concentrations of base metal and indicator elements for stratiform lead-zinc mineralisation were not considered anomalous, and further work was not considered justified.

## 2. INTRODUCTION

This is the only technical report to the South Australian Department of Mines and Energy for Exploration Licence 1266, Cummins area, South Australia.

Exploration began with ground magnetic surveys, from January to March 1985. RAB drilling followed during April and May 1985. During the rest of the term of the licence, geochemical samples were analysed, petrographic specimens were examined and exploration results were assessed. The Licence was allowed to expire in December 1985.

3. TENURE OF LICENCE

EL 1266 was granted on 10 December 1984, for a 1 year term. The Licence covered an area of about 1,929 square km lying to the north east of Cummins, on central Eyre Peninsula (Figure 1).

The Licence expired at the end of its term, on 9 December, 1985.

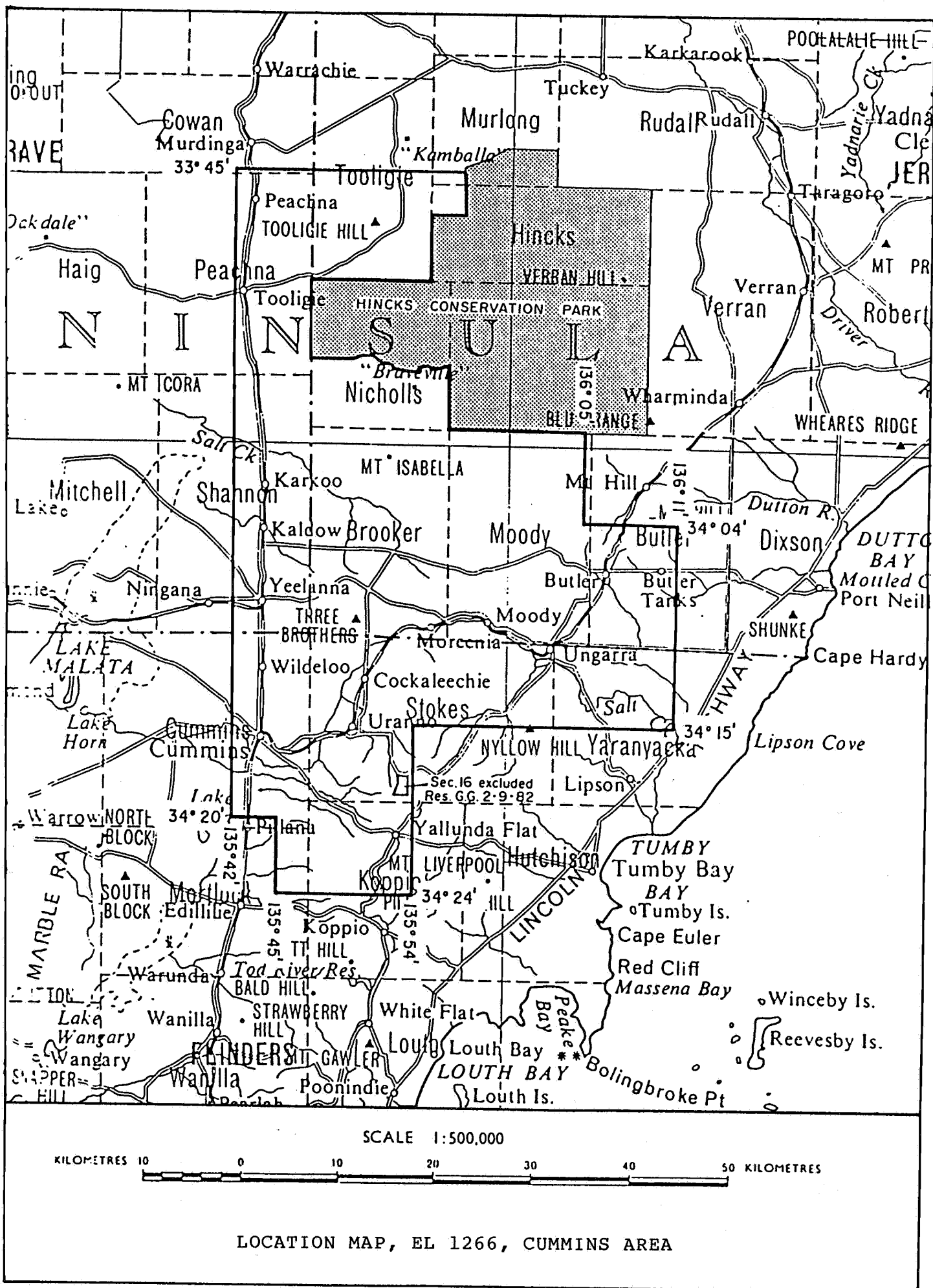


FIGURE 1.



#### 4. EXPLORATION CONCEPT

Phanerozoic sediments cover most of the Licence area, but these form a veneer over Precambrian bedrock that is interpreted by SADME as Lower Proterozoic metasediments of the Hutchison Group (Figure 2). The Hutchison Group contains horizons of chemical sediments, including banded iron formation (BIF). In areas of outcropping Hutchison Group, in the Cleve Uplands to the north east and in the Lincoln Uplands to the south east, there are numerous, small base metal prospects. Many occur in association with BIF horizons, although there are no confirmed stratiform deposits.

Because the Hutchison Group is similar to Lower Proterozoic rock sequences that contain stratiform lead-zinc sulphide deposits elsewhere (e.g. Broken Hill, New South Wales and Aggeneys - Gamsberg, South Africa) the region was considered to be prospective for stratiform lead-zinc sulphide deposits.

Although younger sediments conceal the Hutchison Group, aeromagnetic maps strongly suggested that BIF horizons were the source of many of the linear magnetic highs traversing the area (Figure 3). The prospective BIF horizons could be explored by a combination of magnetic surveys and shallow drilling.

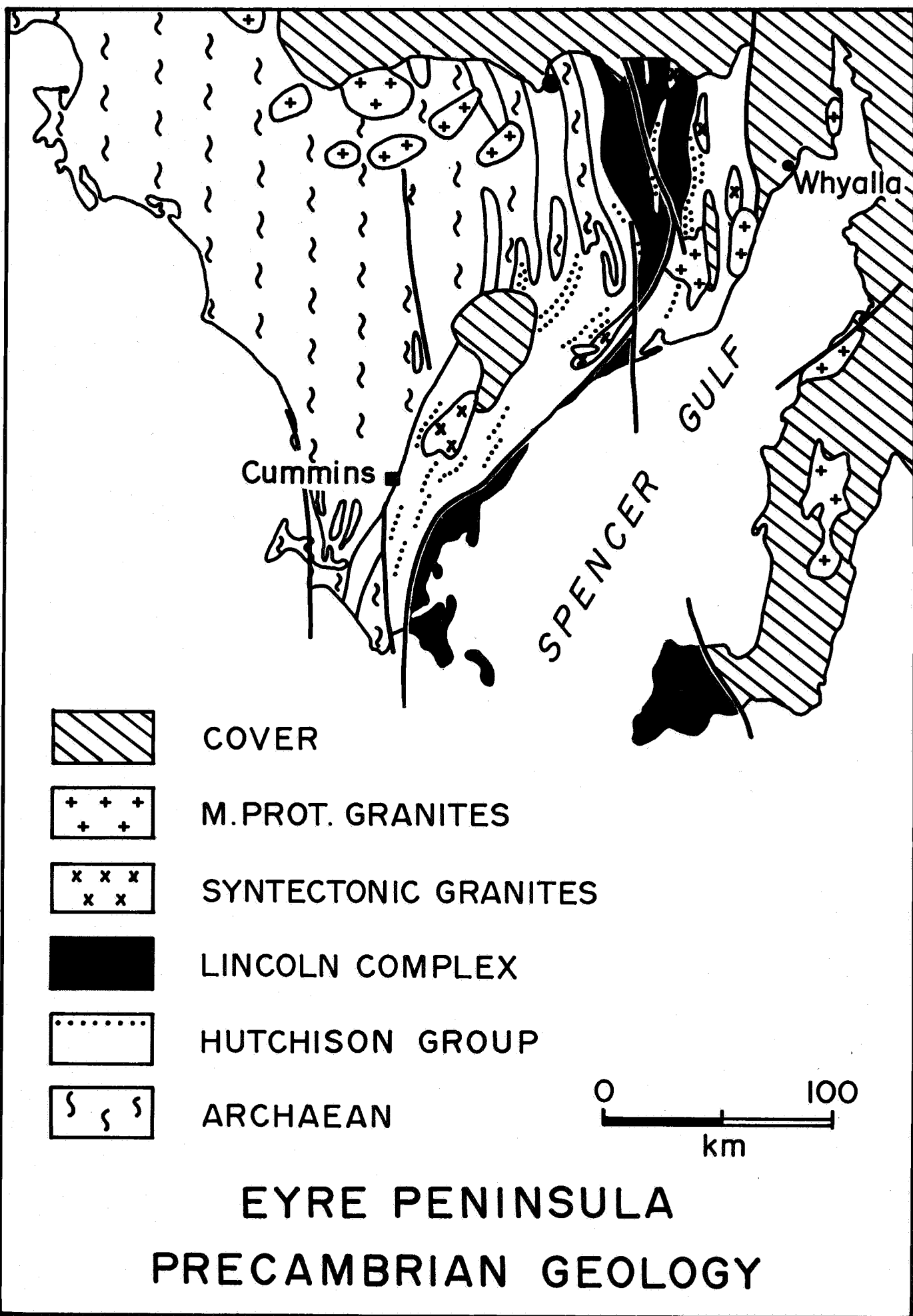


FIGURE 2.

## 5. GEOPHYSICS

### 5.1 Interpretation of Aeromagnetics

After interpretation of aeromagnetic data from published and Open File surveys, a number of linear, north-north-east trending magnetic anomalies were chosen for testing (Figure 3).

### 5.2 Ground Magnetic Traverses

Surveys with a Geometrics G-856 proton precession magnetometer provided a total of 24 ground traverses across magnetic linears. Wherever possible, EW roadways were used for access (Figure 3). Computer modelling of the magnetic data gave estimates of position and depth for each magnetic source. Appendix 1 contains magnetic profiles, modelling data and traverse locations.

After assessment of the ground magnetic profiles, 4 magnetic trends were chosen for follow-up by drilling. These were the Cummins, Brooker, Ungarra and Butler trends (Figure 3). Other magnetic trends either were not sharp enough in profile or were calculated to be too deep for drill testing.

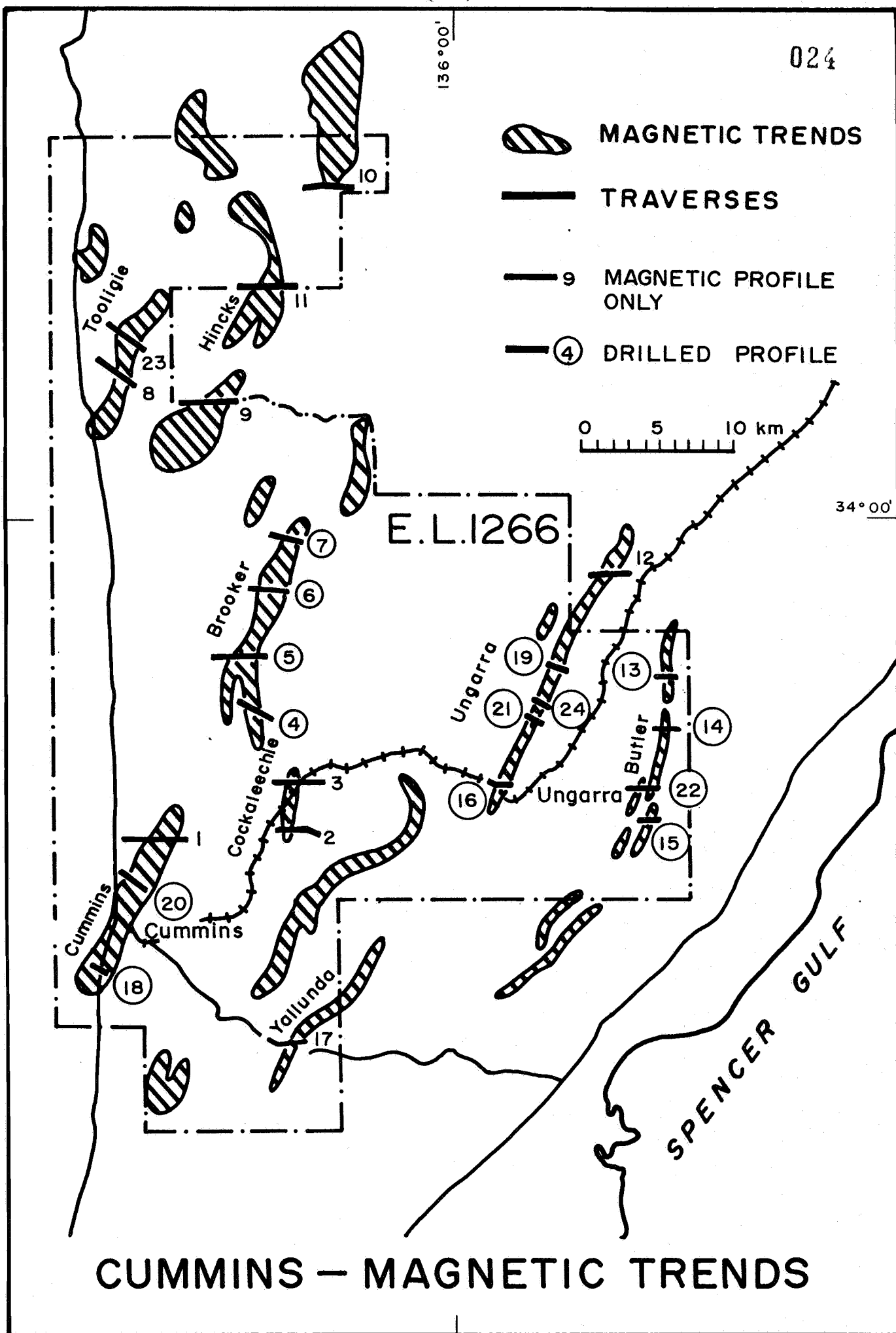


FIGURE 3.

## **6. DRILLING**

### **6.1 Aim of Drilling**

The aim of the drilling was to investigate the sources of the selected linear magnetic highs, with the ultimate objective of discovering stratiform base metal mineralisation associated with chemical sediment (BIF) horizons.

### **6.2 Drilling Program**

Peter Nitschke Drilling Pty. Ltd. drilled 80 rotary air blast (RAB) holes, using a TRUCM3 Ingersoll Rand Drillmaster. The program comprised short lines each of several RAB holes spaced from 50 to 200m apart, sited on 14 of the ground magnetic profiles. Holes ranged in depth from 3 to 80m. Hole locations are shown on magnetic profile location plans, in Appendix 1.

Drill hole locations are identified in the field by a metal tag wired to the top stand of the nearest adjacent fence. The local council required rehabilitation of each drill site, including back-filling of the hole and removal of identification pegs.

### **6.3 Drill Sampling**

Representative chip samples were collected for each 2m drilling intercept. Sample numbers for these are shown on the Field Drill Logs in Appendix 5. From each hole the bottom-hole sample, and in some cases the base-of-weathering sample, was sent for geochemical assay. Selected rock chip samples were taken for petrographic identification.

## **6.4 Drilling Results**

Copies of the Field Drill Logs are included in Appendix 5. A drill hole section for each magnetic profile drilled is included in Appendix 4.

### **6.4.1 Cummins Anomaly**

Four holes drilled on Traverses 18 and 20 failed to reach bedrock, because of deep sand overburden.

### **6.4.2 Brooker Anomaly**

Of 24 holes drilled on Traverses 4, 5, 6 & 7, only 2 failed to reach bedrock. The main rock type intersected was a magnetite-bearing quartz-feldspar-biotite-garnet gneiss. One specimen, from hole CUM15, on Traverse 4, was described by the petrologist as a possible BIF.

### **6.4.3 Ungarra Anomaly**

All 24 holes drilled on Traverses 16, 19, 21 and 24 reached bedrock. The rocks were described on the drill logs as mainly either amphibolites or quartzites. Petrographic work suggested that the amphibolites were either hornblende-quartz-plagioclase microgneiss or biotite microgneiss, whilst the metaquartzites were possibly BIF-related sediments.

### **6.4.4 Butler Anomaly**

All 23 holes drilled on Traverses 13, 14, 15 & 22 reached bedrock. As at Ungarra, the rocks were mainly described as amphibolites on the drill logs, and were identified as quartz-feldspar-hornblende gneiss by

petrography. Micaceous schists and gneisses and quartzites were also drilled. Once again the metaquartzites were probably BIF-related sediments.

7. PETROLOGY

H.W. Fander of Central Mineralogical Services made a petrographic study of 26 samples from EL 1266. The primary aim of the petrology was to identify rock types.

Two kinds of samples were taken. One half were hand-picked drill cuttings from the base of RAB holes (see Table 1). The other half were rock specimens collected from outcrops (see Table 2). The locations from which the outcrop specimens were collected are shown on location diagrams in Appendix 1.

The full petrographic report, CMS 85/5/12, is included in Appendix 2.



**TABLE 1 : PETROGRAPHY SAMPLES FROM DRILL HOLES**

<b>SAMPLE NO.</b>	<b>ROCK NAME</b>	<b>DRILL HOLE</b>	<b>LINE NO.</b>	<b>DEPTH (m)</b>
209605	Weathered Metaquartzite	CUM15	4	44-46
209650	Hornblende-Quartz-Plagioclase Microgneiss	CUM18	16	30-32
209742	Hornblende-Quartz-Plagioclase Microgneiss	CUM22	19	62-64
209756	Metaquartzite	CUM23	19	26-28
209812	Metaquartzite, Garnet Rock	CUM26	19	32-34
210010	Granulated Quartz-Feldspar Gneiss	CUM40	13	6-8
210221	Weathered Sillimanite-Biotite-?Garnet Gneiss	CUM49	5	64-66
210406	Quartz-Feldspar-Biotite Gneiss	CUM55	7	38-39
210519	Hornblende-Feldspar Gneiss	CUM66	14	24-26
210558	Degraded Biotite-Microgneiss	CUM67	24	74-75
210772	Quartz Feldspar-Hornblende Gneiss	CUM76	15	10-12
208822	Quartzite Breccia	CUM79	15	30-32
209453	Garnet-Biotite Gneiss	CUM6	6	63.5-64.25

**TABLE 2 : PETROGRAPHY SAMPLES FROM HAND SPECIMENS**

<b>SAMPLE NO.</b>	<b>ROCK NAME</b>	<b>SAMPLE LOCATION</b>
208847	Quartz-Feldspar-Biotite Gneiss	Traverse 7, Mt. Isabella, 300m N of road
208848	Garnet-Biotite-Sillimanite-Cordierite Gneiss	Traverse 7, Mt. Isabella, 300m N or road
208849	Magnetite-Diopside-Hornblende Metaquartzite	Traverse 22, "Gregurke", N side of road, opposite hole CUM 33
208850	Amphibolite	Traverse 22, "Gregurke", N side of road, opposite hole CUM 33
208851	Garnet-Grunerite Gneiss	Traverse 22, "Gregurke", N side of road, opposite hole CUM 33
208852	Magnetite-Hornblende Metaquartzite	Traverse 22, "Gregurke", N side of road, opposite hole CUM 33
208853	Weathered Sillimanite Gneiss	Traverse 16, Ungarra, railway cutting at W end of traverse
208854	Weathered Garnet-Magnetite Schist	Traverse 4, borrow pit at top of hill
208855	Goethite-Kaolinite Rock	Traverse 19, "Noske", 5km N of traverse, on N-S road
208856	Ferruginised ?Schist	Traverse 19, "Noske", 5km N of traverse, on N-S road
208857	Breccia	"Secret Rocks", 10km SE of Ungarra
208858	Weathered, Ferruginised Gneiss	Traverse 16, Ungarra, W end of traverse
208859	Weathered, Ferruginised Gneiss	Traverse 16, Ungarra, W end of traverse

## **8. GEOCHEMISTRY**

### **8.1 Aims of Geochemistry**

The exploration target was a stratiform base metal deposit of the Broken Hill type. Samples were therefore analysed for the base metals and for Ba and Mn. The program relied on testing of BIF horizons located using magnetics. To help discriminate magnetic targets due to amphibolite (formed after mafic igneous rocks), Ni, Co and Cr were assayed. Because the Katunga Dolomite or equivalents could be expected to be stratigraphically adjacent to the BIF horizons, Ca and Mg were also determined. Sn and W were assayed because of their association with Zn-Pb mineralization elsewhere on Eyre Peninsula.

### **8.2 Bottom-Hole Samples**

A sample of drill cuttings from the bottom of each successfully completed RAB hole was analysed for a suite of 14 elements. Results are tabulated in Appendix 3(a). None of the results was considered worthy of follow-up.

### **8.3 Base of Oxidation Samples**

Geochemical dispersion from any base metal concentration was expected to be greatest at the interface between oxidised and unoxidised bedrock. Where the bottom of a drill hole penetrated beneath the oxidised zone, a geochemical sample was also selected from the base of the oxidized zone (Appendix 3b).

### **8.4 Profile of Hole CUM72**

All the samples from one drill hole, CUM72, were assayed to examine the geochemical dispersion pattern in the vertical direction. This was carried out

because the observation of pisolitic buck shot in soils, mottling in exposures and the colour changes during drilling supported the view that the region had been subjected to a lateritic weathering cycle. The present soil profile is remnant, being commonly truncated at the mottled zone with the pallid zone preserved. Attendant strong redistribution of original metal geochemistry was therefore anticipated. Results are tabulated in Appendix 3(c).

#### **8.5 Petrographic Samples**

The 26 petrographic samples were analysed for trace elements and for whole rock geochemistry. Results are tabulated in Appendix 3(d).

9. CONCLUSIONS & RECOMMENDATIONS

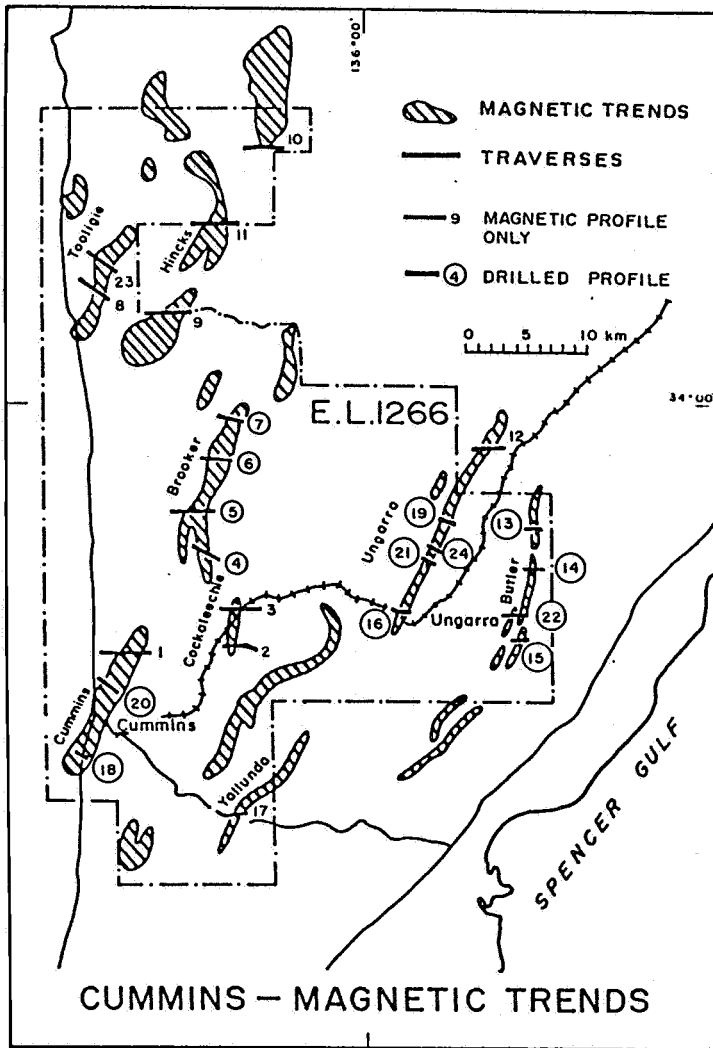
- . The magnetic trends within Cummins exploration title are composed of gneisses in the west, and amphibolites and meta-quartzites in the east.
- . Geochemical data does not indicate the presence of significant base metal mineralization.
- . A typical lateritic weathering profile, truncated at the top of the mottled zone is present over a wide area.
- . Lack of geochemical response and depth of weathering lead to the conclusion that continued exploration is unwarranted at this time.

10. ACKNOWLEDGEMENTS

CSR would like to acknowledge the help of Mr. Tony Martin, of the SADME, who provided preliminary mapping data for the region.

**APPENDIX 1**

Ground magnetometer profiles and depth modelling

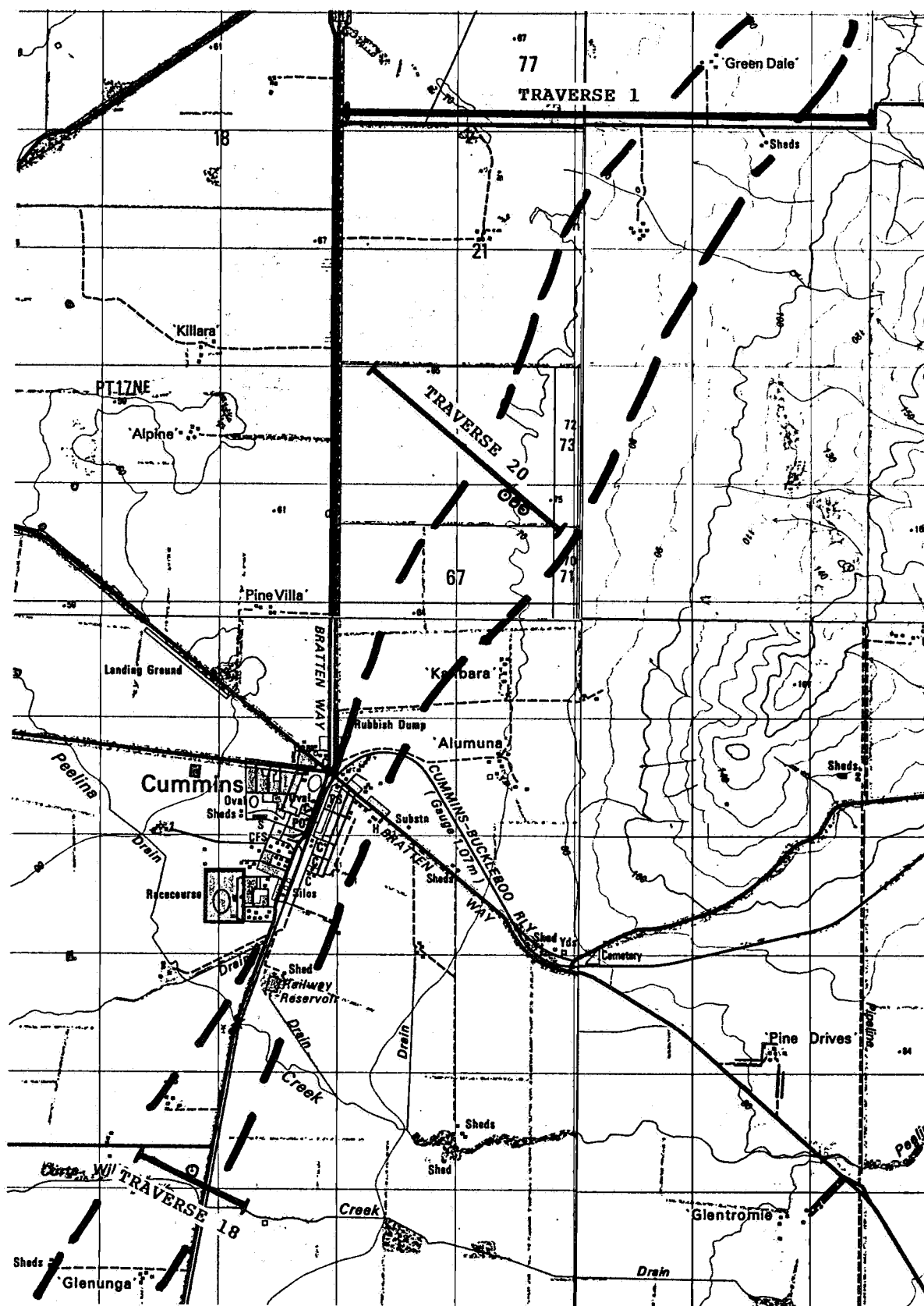


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## APPENDIX I

<u>ANOMALY</u>	<u>TRAVERSE NOS.</u>	<u>PAGES</u>
Cummins	1, 18 & 20	1- 15
Yallunda	17	16- 22
Cockaleechie	2 & 3	23- 32
Brooker	4, 5, 6 & 7	33- 54
Tooligie	8 & 23	55- 63
Hincks	9, 11 & 10	64- 80
Ungarra	12, 16, 19, 21 & 24	81-102
Butler	13, 14, 15 & 22	103-121

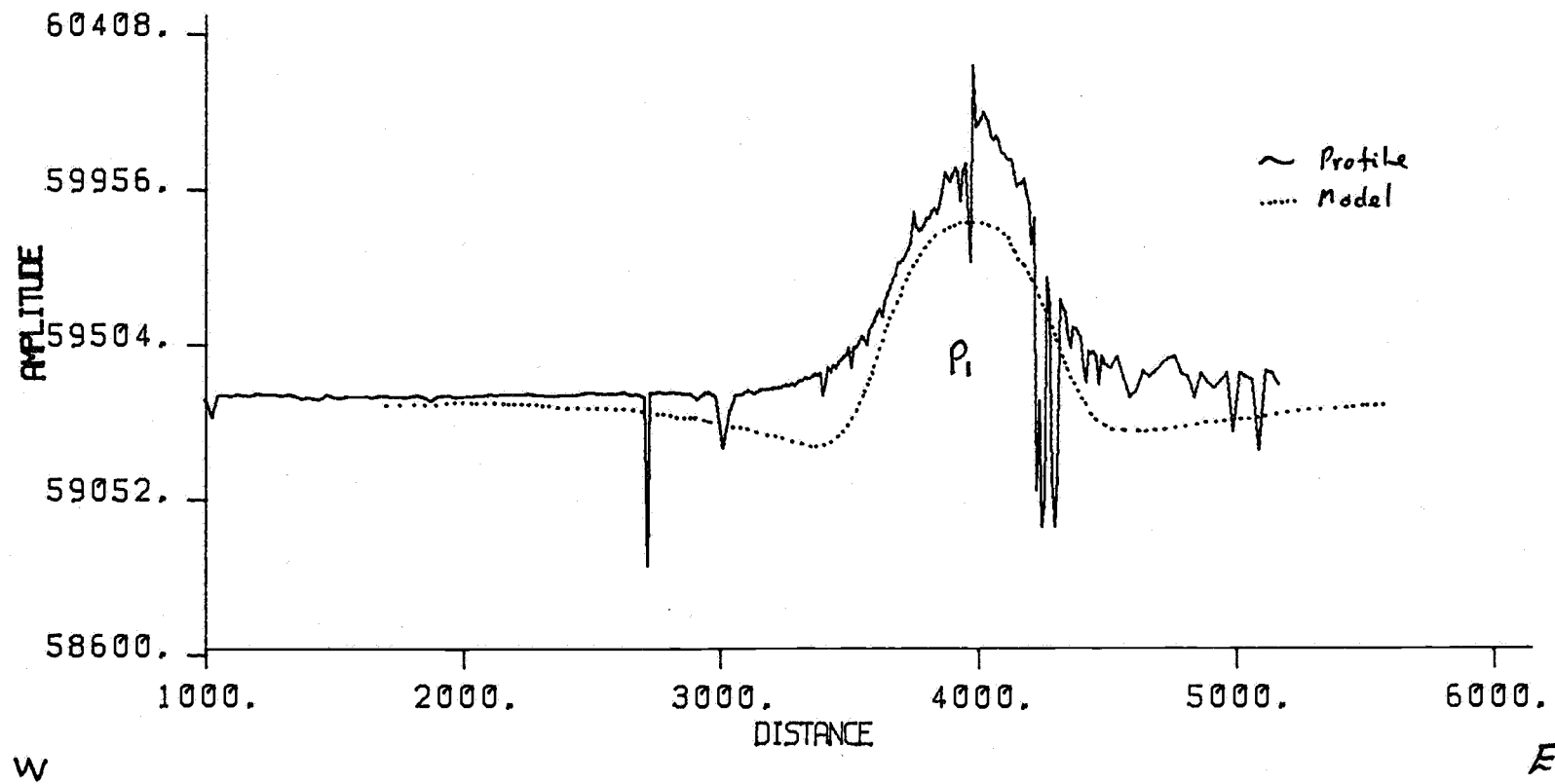




1: 50,000

**CUMMINS - CUMMINS**  
**GROUND MAGNETIC AND DRILLING PROFILES**  
**TRAVERSES 1, 18 & 20**

# CUMMINS - CUMMINS - TRAVERSE NO. 1

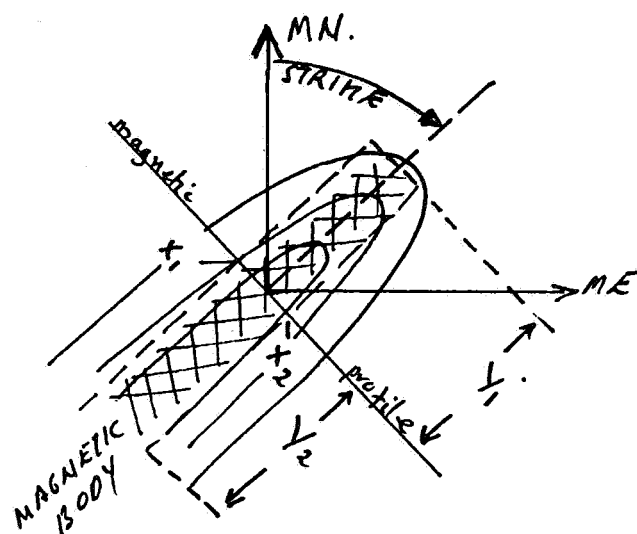
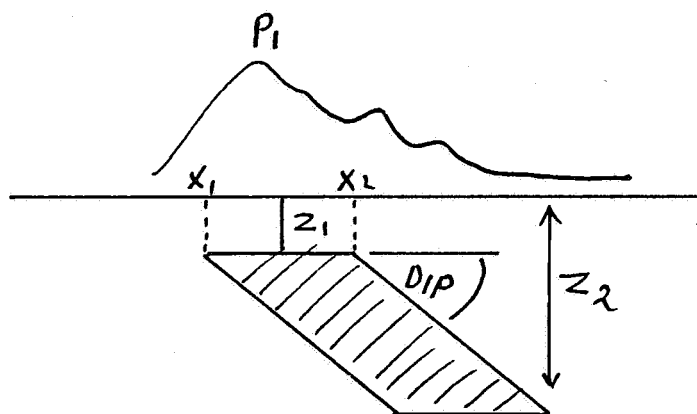


# MODEL PARAMETERS.

039<sup>3</sup>

PROFILE NO: 1      LOCATION: CUMMINIS - CUMMINIS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	3550				
X <sub>2</sub>	4225				
Y <sub>1</sub> strike	-1000				
Y <sub>2</sub>	1000				
Z <sub>1</sub> Depth	200				
Z <sub>2</sub> Thich	280				
Sucept.	0.016				
Dip.	30°				
STRIKE	5°				



## CUMMINS — CUMMINS — TRAVERSE NO 1

P 1/3

1000.	1000.	59346.4	2350.	1000.	59354.4
1025.	1000.	59294.7	2375.	1000.	59356.8
1050.	1000.	59355.7	2400.	1000.	59356.5
1075.	1000.	59355.7	2425.	1000.	59355.9
1100.	1000.	59353.7	2450.	1000.	59358.3
1125.	1000.	59358.9	2475.	1000.	59362.3
1150.	1000.	59357.1	2500.	1000.	59362.4
1175.	1000.	59354.1	2525.	1000.	59361.8
1200.	1000.	59360.5	2550.	1000.	59361.2
1225.	1000.	59358.5	2575.	1000.	59361.0
1250.	1000.	59359.1	2600.	1000.	59360.9
1275.	1000.	59359.1	2625.	1000.	59364.9
1300.	1000.	59354.6	2650.	1000.	59357.6
1325.	1000.	59357.9	2675.	1000.	59357.8
1350.	1000.	59353.5	2685.	1000.	59355.9
1375.	1000.	59346.9	2695.	1000.	59352.0
1400.	1000.	59347.1	2705.	1000.	59349.7
1425.	1000.	59346.5	2715.	1000.	58859.8
1450.	1000.	59344.0	2725.	1000.	59362.4
1475.	1000.	59358.3	2735.	1000.	59360.6
1500.	1000.	59349.7	2760.	1000.	59364.1
1525.	1000.	59347.6	2785.	1000.	59360.9
1550.	1000.	59351.4	2810.	1000.	59362.5
1575.	1000.	59353.0	2835.	1000.	59360.4
1600.	1000.	59353.1	2860.	1000.	59357.9
1625.	1000.	59351.8	2885.	1000.	59358.5
1650.	1000.	59350.5	2910.	1000.	59340.7
1675.	1000.	59354.4	2935.	1000.	59359.5
1700.	1000.	59353.4	2960.	1000.	59362.5
1725.	1000.	59353.1	2985.	1000.	59350.5
1750.	1000.	59351.6	3010.	1000.	59200.6
1775.	1000.	59350.8	3035.	1000.	59304.5
1800.	1000.	59353.1	3060.	1000.	59356.1
1825.	1000.	59355.6	3085.	1000.	59357.1
1850.	1000.	59349.7	3110.	1000.	59368.7
1875.	1000.	59339.9	3135.	1000.	59359.2
1900.	1000.	59351.6	3160.	1000.	59371.0
1925.	1000.	59354.6	3185.	1000.	59372.6
1950.	1000.	59353.5	3210.	1000.	59375.8
1975.	1000.	59351.0	3235.	1000.	59377.4
2000.	1000.	59352.1	3260.	1000.	59384.0
2025.	1000.	59352.3	3270.	1000.	59383.3
2050.	1000.	59355.3	3280.	1000.	59389.7
2075.	1000.	59354.6	3290.	1000.	59383.0
2100.	1000.	59359.0	3300.	1000.	59390.1
2125.	1000.	59356.3	3310.	1000.	59397.2
2150.	1000.	59359.5	3320.	1000.	59397.9
2175.	1000.	59359.8	3330.	1000.	59406.9
2200.	1000.	59358.1	3340.	1000.	59404.1
2225.	1000.	59359.1	3350.	1000.	59405.1
2250.	1000.	59361.3	3360.	1000.	59410.9
2275.	1000.	59356.7	3370.	1000.	59417.1
2300.	1000.	59356.7	3380.	1000.	59413.6
2325.	1000.	59355.1	3390.	1000.	59417.6
			3400.	1000.	59353.9

## CUMMINS - CUMMINS - TRAVERSE NO1

P2/3

3410.	1000.	59395.7	3910.	1000.	60013.4
3420.	1000.	59433.3	3920.	1000.	60002.0
3430.	1000.	59424.4	3930.	1000.	59919.6
3440.	1000.	59441.7	3940.	1000.	60003.4
3450.	1000.	59434.2	3950.	1000.	60027.5
3460.	1000.	59450.1	3960.	1000.	59917.4
3470.	1000.	59458.2	3970.	1000.	59742.9
3480.	1000.	59467.6	3980.	1000.	60314.0
3490.	1000.	59470.8	3990.	1000.	60132.3
3500.	1000.	59491.4	4000.	1000.	60140.3
3510.	1000.	59433.3	4010.	1000.	60158.3
3520.	1000.	59492.1	4020.	1000.	60177.5
3530.	1000.	59495.2	4030.	1000.	60158.1
3540.	1000.	59505.1	4040.	1000.	60147.7
3550.	1000.	59525.2	4050.	1000.	60105.2
3560.	1000.	59520.2	4060.	1000.	60092.6
3570.	1000.	59500.1	4070.	1000.	60106.9
3580.	1000.	59538.8	4080.	1000.	60090.6
3590.	1000.	59558.9	4090.	1000.	60059.0
3600.	1000.	59571.9	4100.	1000.	60053.8
3610.	1000.	59594.8	4110.	1000.	60042.1
3620.	1000.	59605.3	4120.	1000.	60037.1
3630.	1000.	59582.2	4130.	1000.	60037.4
3640.	1000.	59626.4	4140.	1000.	59999.8
3650.	1000.	59652.5	4150.	1000.	59961.9
3660.	1000.	59668.0	4160.	1000.	59969.0
3670.	1000.	59690.6	4170.	1000.	59969.7
3680.	1000.	59705.3	4180.	1000.	59981.8
3690.	1000.	59741.2	4190.	1000.	59943.4
3700.	1000.	59739.3	4200.	1000.	59910.7
3710.	1000.	59750.9	4210.	1000.	59792.3
3720.	1000.	59762.3	4220.	1000.	59870.2
3730.	1000.	59780.6	4230.	1000.	59075.8
3740.	1000.	59800.7	4240.	1000.	59336.4
3750.	1000.	59886.2	4250.	1000.	58970.8
3760.	1000.	59843.7	4260.	1000.	59053.3
3770.	1000.	59832.0	4270.	1000.	59694.3
3780.	1000.	59837.5	4280.	1000.	59615.7
3790.	1000.	59851.0	4290.	1000.	59105.4
3800.	1000.	59869.2	4300.	1000.	58971.2
3810.	1000.	59869.6	4310.	1000.	59113.4
3820.	1000.	59889.5	4320.	1000.	59631.8
3830.	1000.	59898.2	4330.	1000.	59609.0
3840.	1000.	59885.0	4340.	1000.	59592.5
3850.	1000.	59912.1	4350.	1000.	59530.2
3860.	1000.	59944.8	4360.	1000.	59491.1
3870.	1000.	60002.0	4370.	1000.	59550.6
3880.	1000.	59989.0	4380.	1000.	59547.1
3890.	1000.	59974.2	4390.	1000.	59534.2
3900.	1000.	59995.8	4400.	1000.	59520.8
			4410.	1000.	59437.1
			4420.	1000.	59390.0
			4430.	1000.	59478.9
			4440.	1000.	59473.4

## CUMMINS - CUMMINS - TRAVERSE AIO 1

P 3/3

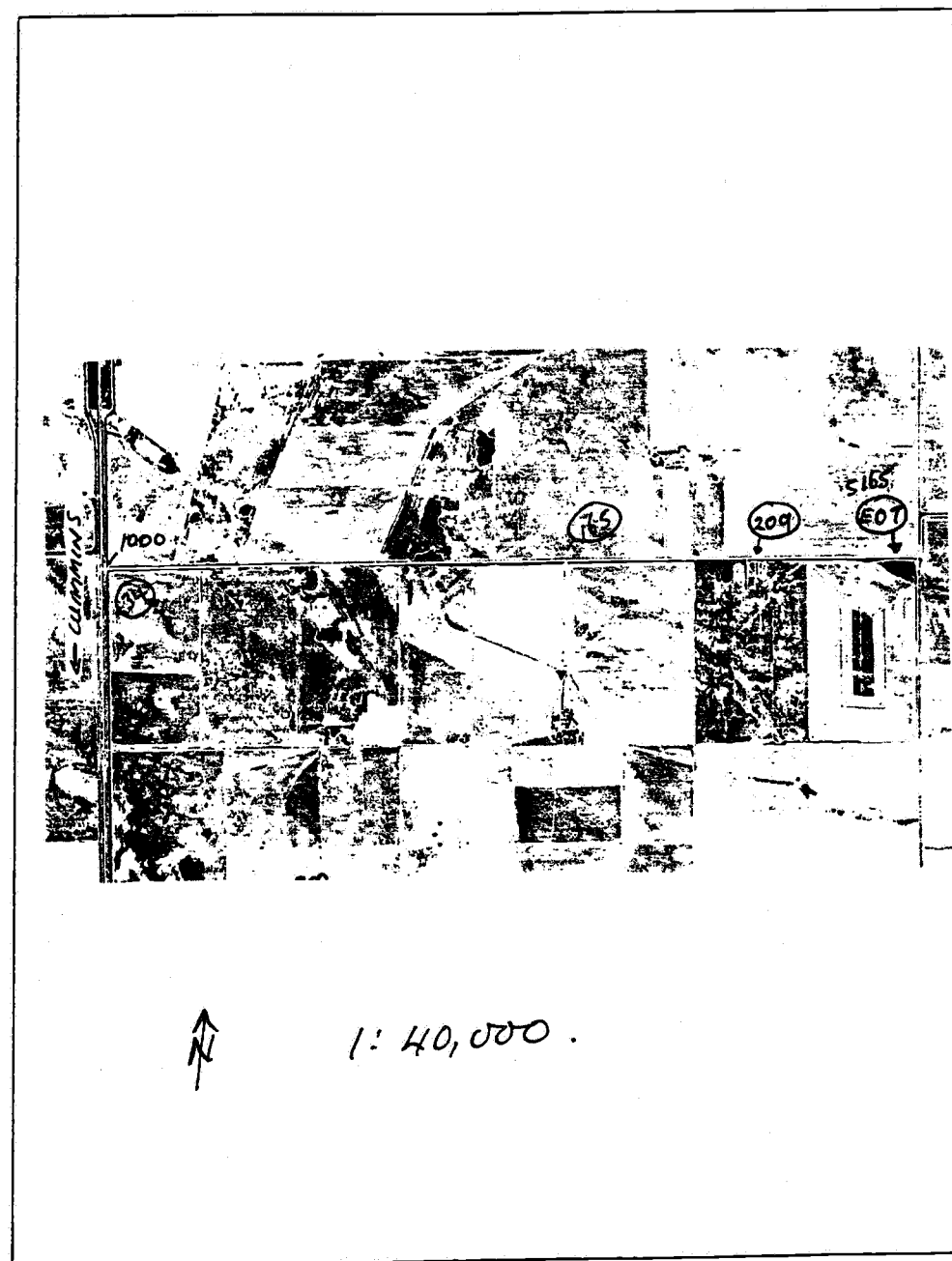
4450.	1000.	59477.4
4460.	1000.	59460.8
4470.	1000.	59384.1
4480.	1000.	59465.5
4490.	1000.	59445.4
4515.	1000.	59429.4
4540.	1000.	59464.3
4565.	1000.	59398.9
4590.	1000.	59346.4
4615.	1000.	59366.3
4640.	1000.	59423.0
4665.	1000.	59406.4
4690.	1000.	59421.5
4715.	1000.	59442.1
4740.	1000.	59460.8
4765.	1000.	59463.3
4790.	1000.	59417.7
4815.	1000.	59405.4
4840.	1000.	59346.2
4865.	1000.	59416.6
4890.	1000.	59392.0
4915.	1000.	59372.0
4940.	1000.	59393.6
4965.	1000.	59417.6
4990.	1000.	59246.2
5015.	1000.	59417.4
5040.	1000.	59404.4
5065.	1000.	59397.4
5090.	1000.	59193.2
5115.	1000.	59422.5
5140.	1000.	59417.9
5165.	1000.	59385.0

PROJECT NO. CUMMINS LOCATION CUMMINSPROFILE NO. 1, "Wil deloop line hills" ORIENTATION W → EASTOPERATOR N. Blake DATE 17/1/85PROFILE/REF. COORDINATES "1000"BASE STATION NOS. (Start) — 9.48 AM,BASE STATION NOS. (Finish) — 13.40 PM.

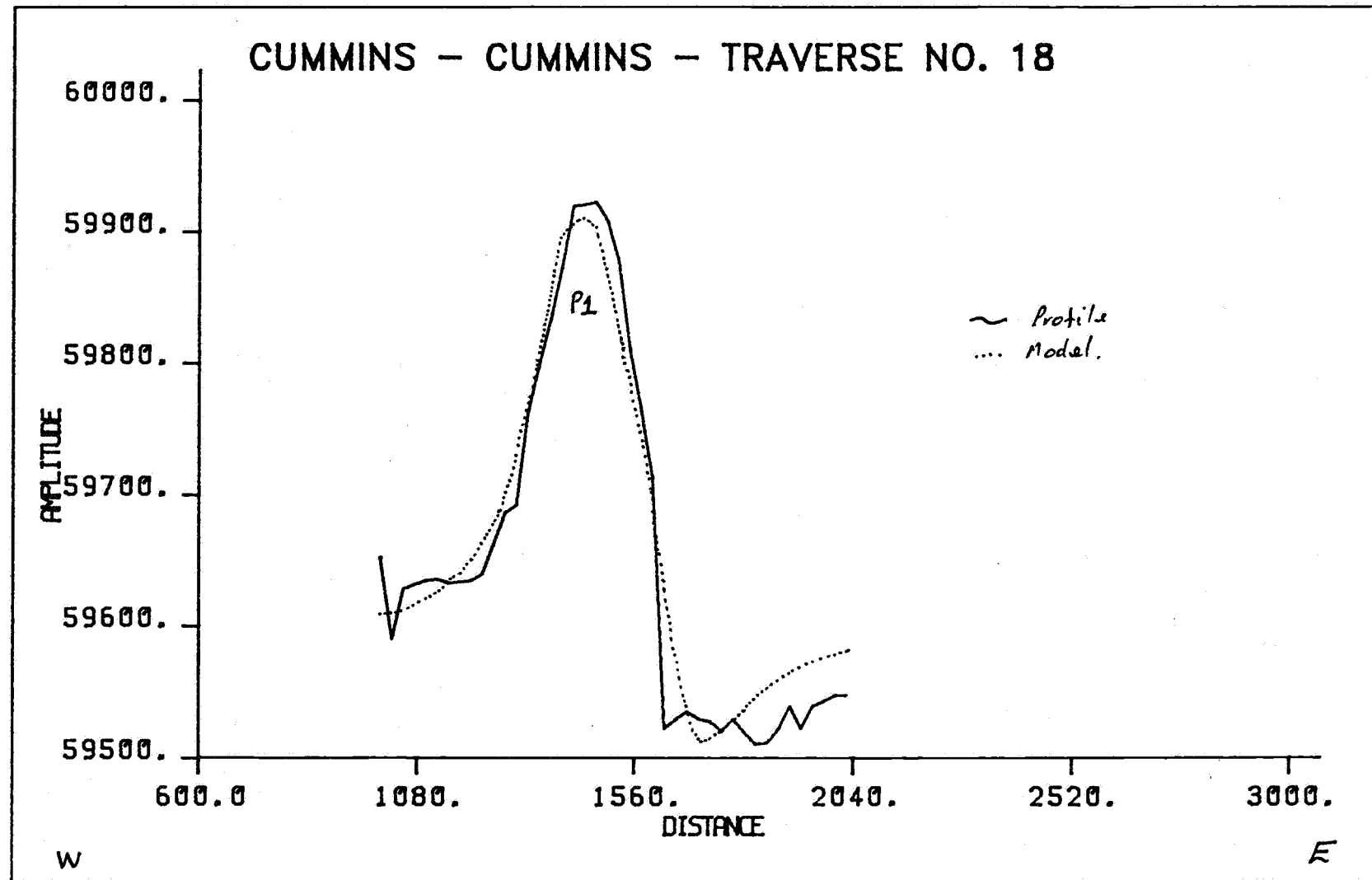
## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
1000	34	25 m	Yellow telephone cable post -
2675	68	10 m	(40m E of railway line)
2750	71	"	Low values.
2760	72	25m	Regional
"	74	25	
	84	"	Power lines
	85	"	Power lines
3260	95	10	
	108		Low values
	165		Farm house access, green shelter
	209		opp double gates - Stealing shed.
4490	217	25	
	231		5m E of Telecom post, 2-yellow
5165	244		EOT Steel?

REMARKS:

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;

\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc..

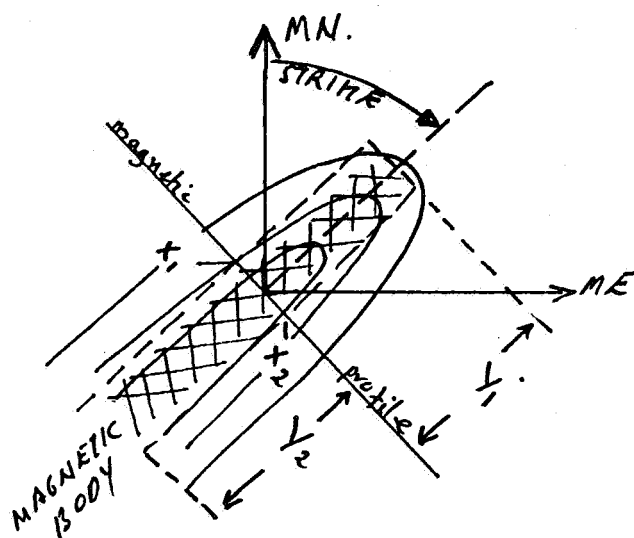
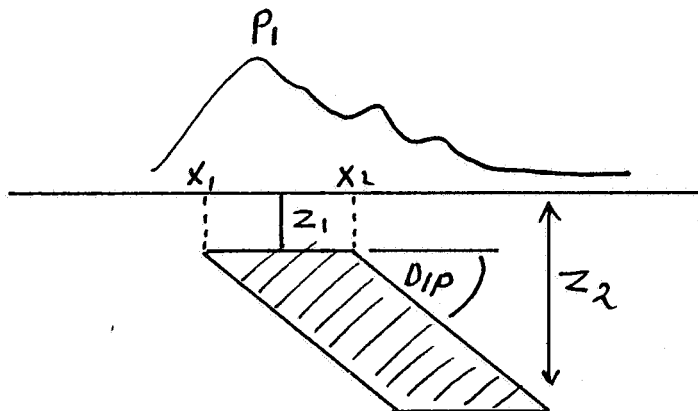




MODEL PARAMETERS.

PROFILE NO: 18 LOCATION: CUMMINS-CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1400				
X <sub>2</sub>	1660				
Y <sub>1</sub> strike	—				
Y <sub>2</sub>	—				
Z <sub>1</sub> Depth	60				
Z <sub>2</sub> Thich	350				
Sucept.	0.002				
Dip.	110°				
STRIKE	—				



## CUMMINS - CUMMINS - TRAVERSE No 18. 046

1000.	1800.	59652.0
1025.	1800.	59590.0
1050.	1800.	59629.0
1075.	1800.	59632.0
1100.	1800.	59635.0
1125.	1800.	59636.0
1150.	1800.	59633.0
1175.	1800.	59634.0
1200.	1800.	59635.0
1225.	1800.	59640.0
1250.	1800.	59663.0
1275.	1800.	59687.0
1300.	1800.	59692.0
1325.	1800.	59761.0
1350.	1800.	59797.0
1375.	1800.	59833.0
1400.	1800.	59873.0
1425.	1800.	59920.0
1450.	1800.	59921.0
1475.	1800.	59923.0
1500.	1800.	59908.0
1525.	1800.	59877.0
1550.	1800.	59811.0
1575.	1800.	59765.0
1600.	1800.	59713.0
1625.	1800.	59523.0
1650.	1800.	59530.0
1675.	1800.	59536.0
1700.	1800.	59530.0
1725.	1800.	59528.0
1750.	1800.	59521.0
1775.	1800.	59530.0
1800.	1800.	59520.0
1825.	1800.	59511.0
1850.	1800.	59512.0
1875.	1800.	59523.0
1900.	1800.	59540.0
1925.	1800.	59523.0
1950.	1800.	59540.0
1975.	1800.	59544.0
2000.	1800.	59548.0
2025.	1800.	59548.0

PROJECT NO. CUMMINS LOCATION CUMMINS

PROFILE NO. 18, CUMMINS ORIENTATION WNW → ESE

OPERATOR N. Blatte DATE ? 13/85

PROFILE/REF. COORDINATES "1800"

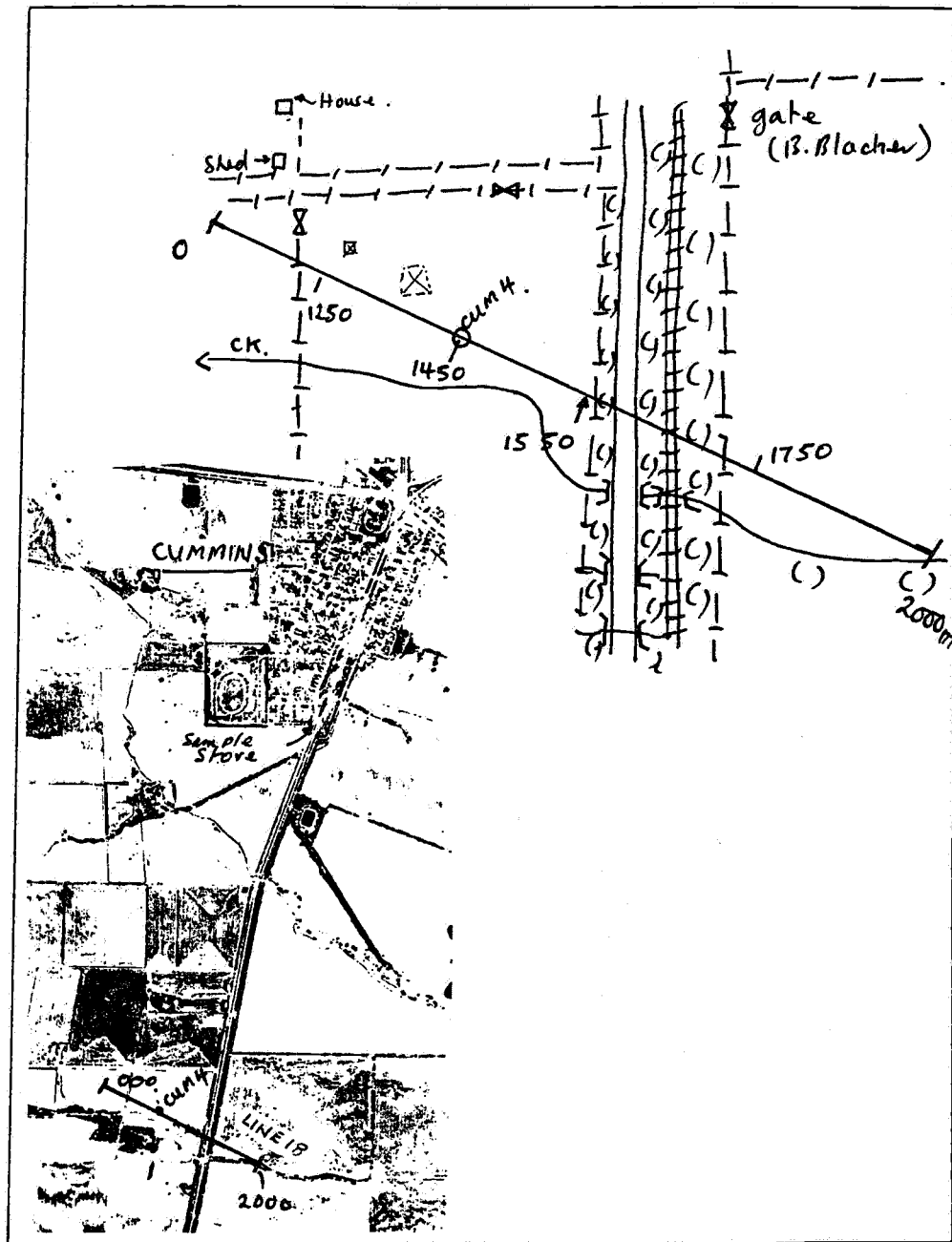
BASE STATION NOS. (Start) \_\_\_\_\_

BASE STATION NOS. (Finish)

[illegible]REMARKS: peak values at 1475m.

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.PA7;

PROFILE SKETCH PLAN - Please record \*

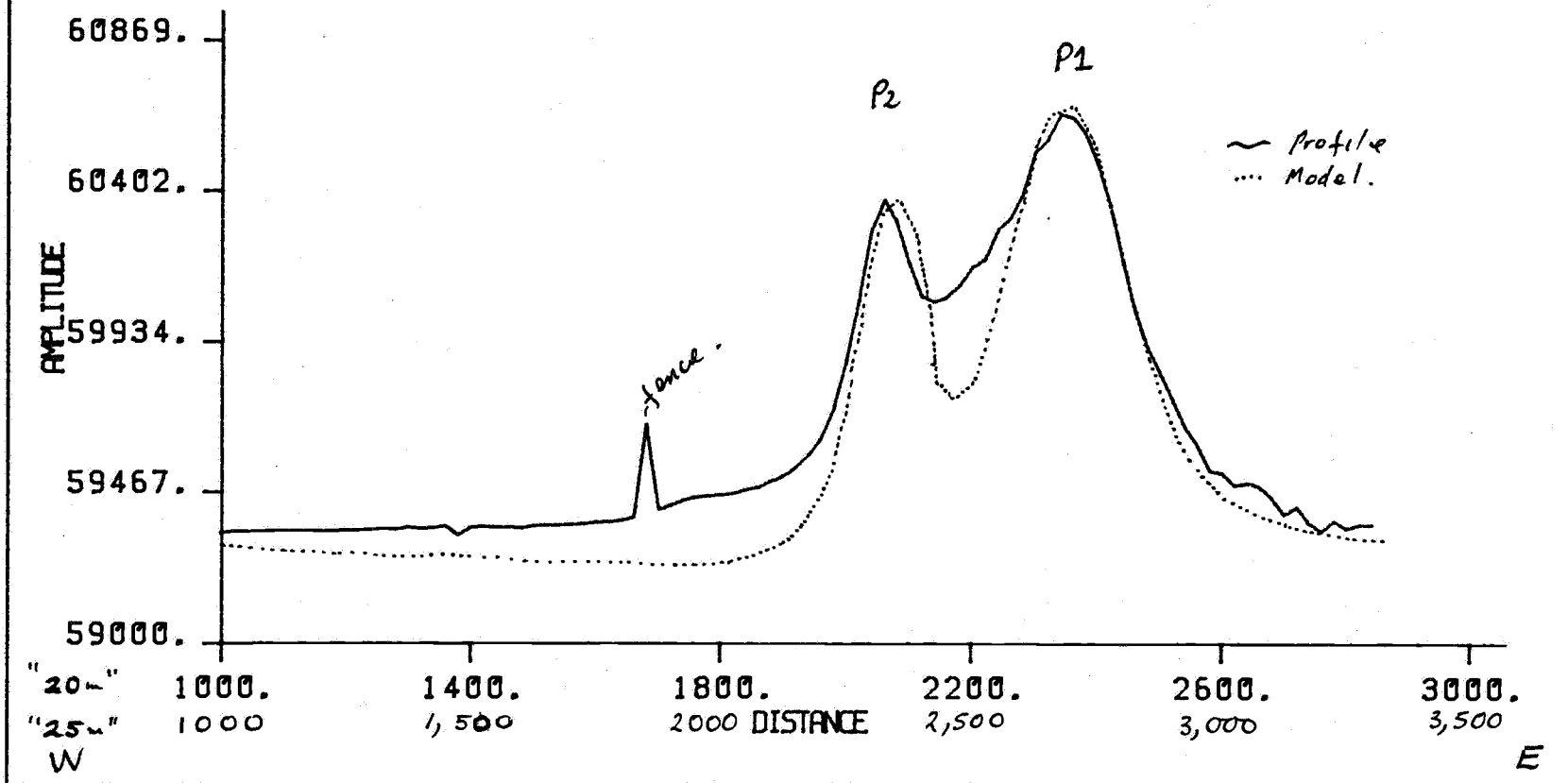


\*NB: Landmarks, Stn. Nos., Distances, orientation, scale,  
peak values etc..

750

11

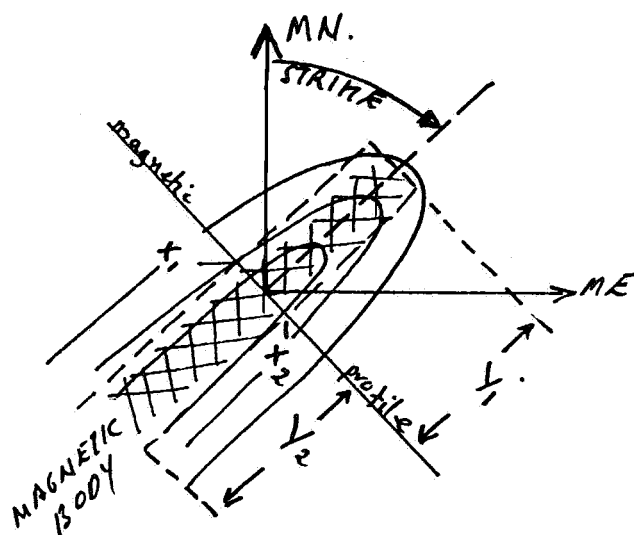
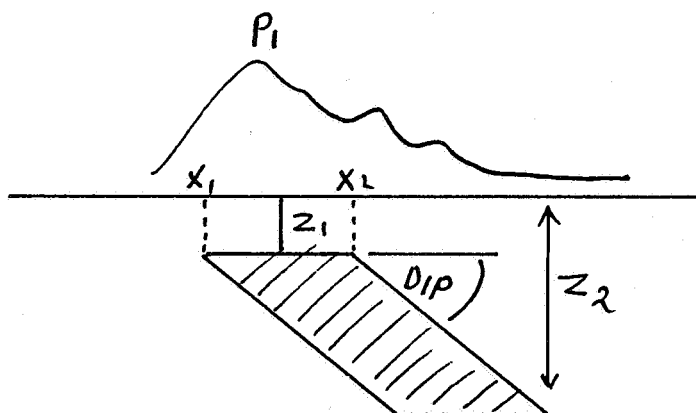
# CUMMINS - CUMMINS - TRAVERSE NO. 20



MODEL PARAMETERS.PROFILE NO: 20 LOCATION: CUMMINS - CUMMINS

Processing Errors. (20) - 20m spacing ; (25) - 25m spacing

ANOMALY	$P_1(25)$	$P_1(20)$	$P_2(25)$	$P_2(20)$	$P_5$
$X_1$ width	2563?	2250	2280?	2025	
$X_2$	2782?	2425	2395?	2115	
$Y_1$ strike	—	-500	—	-500	
$Y_2$	—	500	—	+500	
$Z_1$ Depth	—	80	—	80	
$Z_2$ Thich	—	1000	—	1000	
Sucept.	—	0.01	—	0.01	
Dip.	—	100°	—	100°	
STRIKE	—	15°	—	15°	



CUMMINS - CUMMINS

25m Inc. 20m Inc

LINE 20

1900	1000.	20000.	59344.0
	1020.	20000.	59347.0
	1040.	20000.	59347.0
	1060.	20000.	59347.0
	1080.	20000.	59350.0
	1100.	20000.	59350.0
	1120.	20000.	59350.0
	1140.	20000.	59351.0
	1160.	20000.	59350.0
	1180.	20000.	59350.0
1250	1200.	20000.	59352.0
	1220.	20000.	59353.0
	1240.	20000.	59355.0
	1260.	20000.	59356.0
	1280.	20000.	59355.0
	1300.	20000.	59361.0
	1320.	20000.	59356.0
	1340.	20000.	59358.0
	1360.	20000.	59365.0
	1380.	20000.	59336.0
1,500	1400.	20000.	59362.0
	1420.	20000.	59363.0
	1440.	20000.	59360.0
	1460.	20000.	59362.0
	1480.	20000.	59359.0
	1500.	20000.	59365.0
	1520.	20000.	59368.0
	1540.	20000.	59368.0
	1560.	20000.	59369.0
	1580.	20000.	59372.0
1,750	1600.	20000.	59376.0
	1620.	20000.	59378.0
	1640.	20000.	59384.0
	1660.	20000.	59392.0
	1680.	20000.	59682.0
	1700.	20000.	59416.0
	1720.	20000.	59430.0
	1740.	20000.	59446.0
	1760.	20000.	59455.0
	1780.	20000.	59460.0
2,000	1800.	20000.	59461.0
	1820.	20000.	59466.0
	1840.	20000.	59477.0
	1860.	20000.	59485.0
	1880.	20000.	59503.0
	1900.	20000.	59520.0
	1920.	20000.	59546.0
	1940.	20000.	59585.0
	1960.	20000.	59636.0
	1980.	20000.	59731.0
2,250	2000.	20000.	59871.0
	2020.	20000.	60068.0
	2040.	20000.	60281.0
	2060.	20000.	60377.0
	2080.	20000.	60311.0

"25m" "20m"

	2100.	20000.	60179.0
	2120.	20000.	60078.0
	2140.	20000.	60060.0
	2160.	20000.	60076.0
	2180.	20000.	60115.0
2,500	2200.	20000.	60170.0
	2220.	20000.	60194.0
	2240.	20000.	60283.0
	2260.	20000.	60322.0
	2280.	20000.	60394.0
	2300.	20000.	60524.0
	2320.	20000.	60564.0
	2340.	20000.	60641.0
	2360.	20000.	60631.0
	2380.	20000.	60583.0
2,750	2400.	20000.	60482.0
	2420.	20000.	60361.0
	2440.	20000.	60184.0
	2460.	20000.	60033.0
	2480.	20000.	59918.0
	2500.	20000.	59841.0
	2520.	20000.	59755.0
	2540.	20000.	59670.0
	2560.	20000.	59610.0
	2580.	20000.	59534.0
3,000	2600.	20000.	59526.0
	2620.	20000.	59489.0
	2640.	20000.	59496.0
	2660.	20000.	59485.0
	2680.	20000.	59450.0
	2700.	20000.	59399.0
	2720.	20000.	59424.0
	2740.	20000.	59375.0
	2760.	20000.	59348.0
	2780.	20000.	59382.0
3,250	2800.	20000.	59356.0
	2820.	20000.	59367.0
3,300	2840.	20000.	59368.0

PROJECT NO. CUMMINS, 5428 LOCATION CUMMINS  
 PROFILE NO. 20, "Hamborra" ORIENTATION WNW - ESE  
 OPERATOR J. JUST DATE 15/3/85  
 PROFILE/REF. COORDINATES "20,000"  
 BASE STATION NOS. (Start) 0, 1, 2,  
 BASE STATION NOS. (Finish) 99, 100, 101

## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
1000	3	25	25m from paddock corner
1338	20/21	"	Fence bet. stations (North) (1)
1850	37	"	Fence - North (2)
2340	57	"	Fence (10m to west) (North) 3
	60	"	High values, 75m E of fence 3
	73	"	High values 50m W of fence 4
2800	75	"	Fence (North) (4)
3050	85	"	Fence (North) (5)
	95	"	Fenced "Lane" (North) (6)
3,300	98	"	EOT.

REMARKS: Error in processing, all intervals processed  
as 20m.

Metal loops on Fences 3 & 4. , P1 = 2750m, P2 = 2350m.

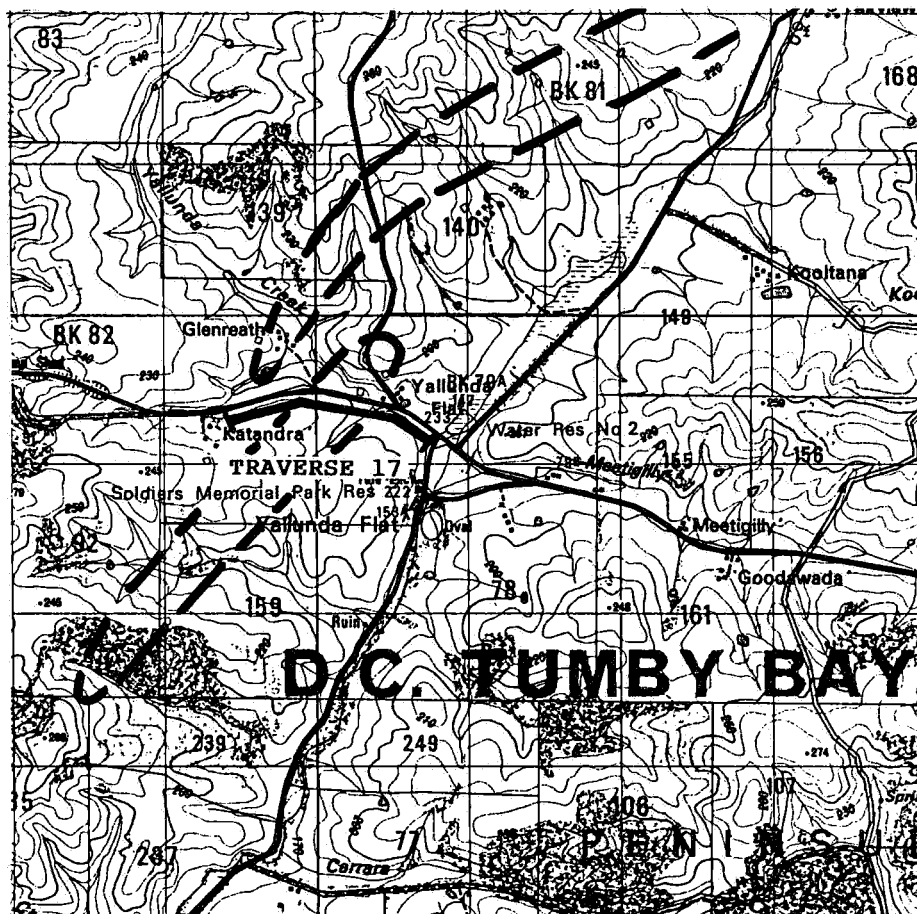
Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;



1:40,000



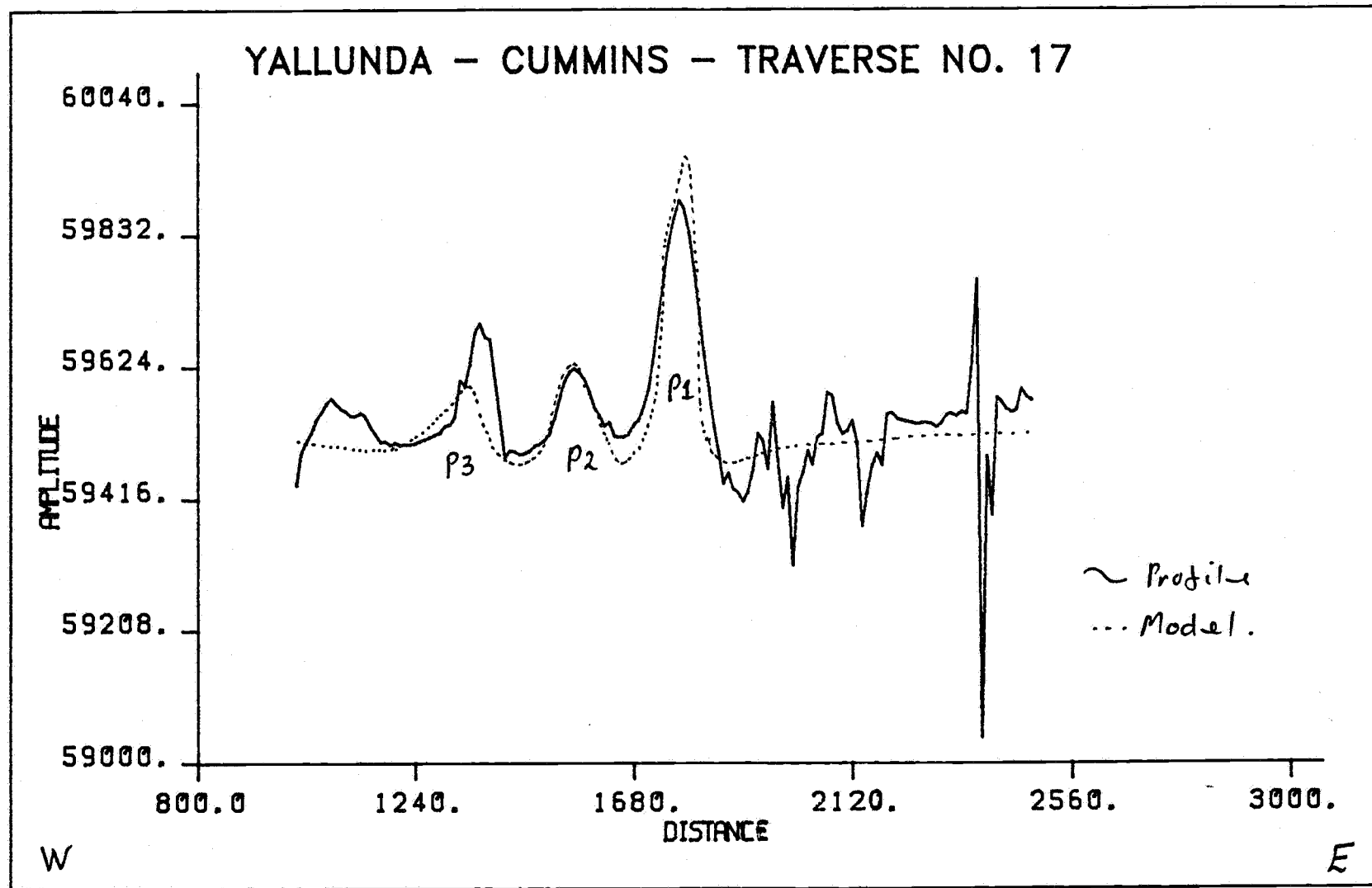
\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc..



1: 50,000

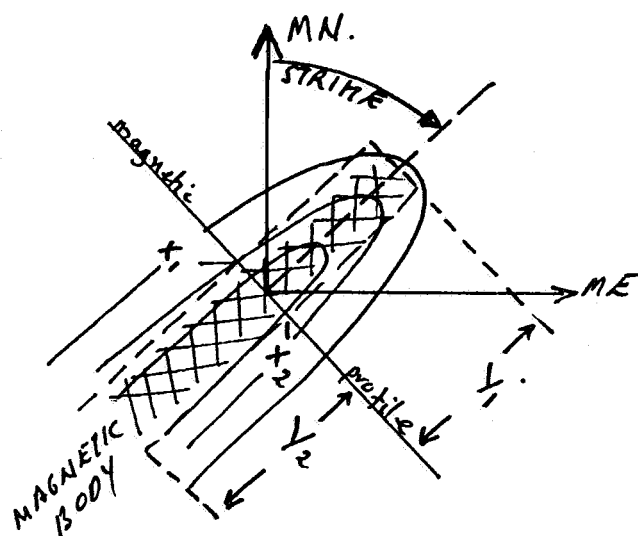
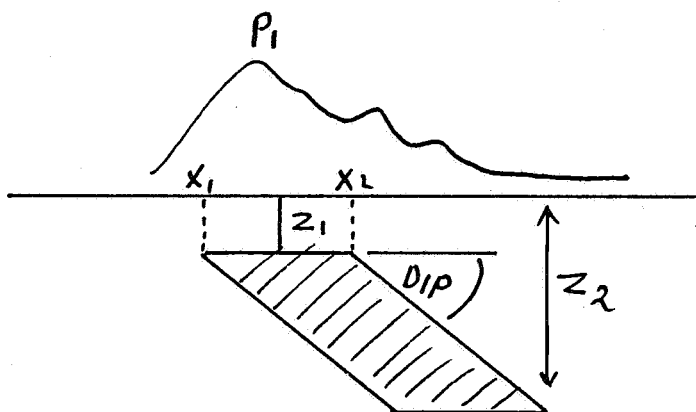
YALLUNDA - CUMMINS  
GROUND MAGNETIC PROFILES  
TRAVERSE 17





MODEL PARAMETERS.PROFILE NO: 17 LOCATION: YALLUNDA - CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1760	1560	1360		
X <sub>2</sub>	1785	1600	1380		
Y <sub>1</sub> strike	-1000	-1000	-1000		
Y <sub>2</sub>	+1000	+1000	+1000		
Z <sub>1</sub> Depth	30	60	40		
Z <sub>2</sub> Thick	60	120	120		
Sucept.	0.008	0.005	0.005		
Dip.	110°	110°	150°		
STRIKE	5°	5°	5°		



## YALLANDA - CUMMINS

TRAVERSE NO 17

P1

1000.	17000.	59438.2
1010.	17000.	59490.7
1020.	17000.	59506.6
1030.	17000.	59522.2
1040.	17000.	59542.4
1050.	17000.	59553.3
1060.	17000.	59567.0
1070.	17000.	59575.4
1080.	17000.	59566.7
1090.	17000.	59558.6
1100.	17000.	59555.0
1110.	17000.	59547.0
1120.	17000.	59546.7
1130.	17000.	59552.9
1140.	17000.	59546.9
1150.	17000.	59529.7
1160.	17000.	59518.3
1170.	17000.	59506.3
1180.	17000.	59506.8
1190.	17000.	59500.9
1200.	17000.	59504.8
1210.	17000.	59501.2
1220.	17000.	59501.5
1230.	17000.	59501.7
1240.	17000.	59503.9
1250.	17000.	59508.1
1260.	17000.	59510.8
1270.	17000.	59513.4
1280.	17000.	59517.8
1290.	17000.	59521.1
1300.	17000.	59531.5
1310.	17000.	59533.8
1320.	17000.	59546.1
1330.	17000.	59602.7
1340.	17000.	59594.3
1350.	17000.	59629.0
1360.	17000.	59678.1
1370.	17000.	59692.4
1380.	17000.	59670.4
1390.	17000.	59667.5
1400.	17000.	59605.8
1410.	17000.	59546.0
1420.	17000.	59481.4
1430.	17000.	59493.3
1440.	17000.	59490.8
1450.	17000.	59485.9
1460.	17000.	59487.7
1470.	17000.	59491.8
1480.	17000.	59499.8
1490.	17000.	59503.4
1500.	17000.	59509.6
1510.	17000.	59519.4
1520.	17000.	59543.5
1530.	17000.	59574.0
1540.	17000.	59603.2
1550.	17000.	59616.7
1560.	17000.	59622.2
1570.	17000.	59614.8

1580.	17000.	59603.8
1590.	17000.	59584.4
1600.	17000.	59559.9
1610.	17000.	59547.6
1620.	17000.	59530.6
1630.	17000.	59538.1
1640.	17000.	59514.7
1650.	17000.	59513.6
1660.	17000.	59514.2
1670.	17000.	59520.2
1680.	17000.	59533.5
1690.	17000.	59542.0
1700.	17000.	59563.6
1710.	17000.	59591.2
1720.	17000.	59644.1
1730.	17000.	59708.5
1740.	17000.	59768.2
1750.	17000.	59821.5
1760.	17000.	59859.1
1770.	17000.	59887.3
1780.	17000.	59873.6
1790.	17000.	59835.9
1800.	17000.	59778.5
1810.	17000.	59710.7
1820.	17000.	59644.8
1830.	17000.	59589.7
1840.	17000.	59530.5
1850.	17000.	59492.0
1860.	17000.	59440.5
1870.	17000.	59456.9
1880.	17000.	59431.7
1890.	17000.	59425.8
1900.	17000.	59411.4
1910.	17000.	59427.3
1920.	17000.	59461.8
1930.	17000.	59519.6
1940.	17000.	59508.3
1950.	17000.	59463.1
1960.	17000.	59568.7
1970.	17000.	59479.5
1980.	17000.	59401.9
1990.	17000.	59449.9
2000.	17000.	59311.2
2010.	17000.	59433.7
2020.	17000.	59457.4
2030.	17000.	59492.0
2040.	17000.	59469.9
2050.	17000.	59514.2

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YALHUNDA - CUMMINIS

TRAVERSE NO 17

P2.

2060.	17000.	59518.4
2070.	17000.	59583.8
2080.	17000.	59578.8
2090.	17000.	59535.5
2100.	17000.	59518.1
2110.	17000.	59523.4
2120.	17000.	59539.4
2130.	17000.	59505.0
2140.	17000.	59372.7
2150.	17000.	59426.2
2160.	17000.	59468.2
2170.	17000.	59488.9
2180.	17000.	59468.3
2190.	17000.	59549.9
2200.	17000.	59551.8
2210.	17000.	59542.4
2220.	17000.	59539.2
2230.	17000.	59537.2
2240.	17000.	59536.9
2250.	17000.	59533.4
2260.	17000.	59535.2
2270.	17000.	59535.3
2280.	17000.	59534.5
2290.	17000.	59528.7
2300.	17000.	59536.2
2310.	17000.	59548.6
2320.	17000.	59550.6
2330.	17000.	59546.1
2340.	17000.	59553.6
2350.	17000.	59550.3
2360.	17000.	59631.4
2370.	17000.	59761.3
2380.	17000.	59040.0
2390.	17000.	59484.5
2400.	17000.	59390.3
2410.	17000.	59576.0
2420.	17000.	59568.5
2430.	17000.	59557.4
2440.	17000.	59551.2
2450.	17000.	59555.3
2460.	17000.	59589.1
2470.	17000.	59576.4
2480.	17000.	59571.3

PROJECT NO. CUMMINS LOCATION YALLUNDA.

PROFILE NO. 17, Yallunda Flat ORIENTATION W → E

OPERATOR \_\_\_\_\_ DATE 22/8/85

PROFILE/REF. COORDINATES "17,000" Page 1

BASE STATION NOS. (Start) \_\_\_\_\_

BASE STATION NOS. (Finish) \_\_\_\_\_

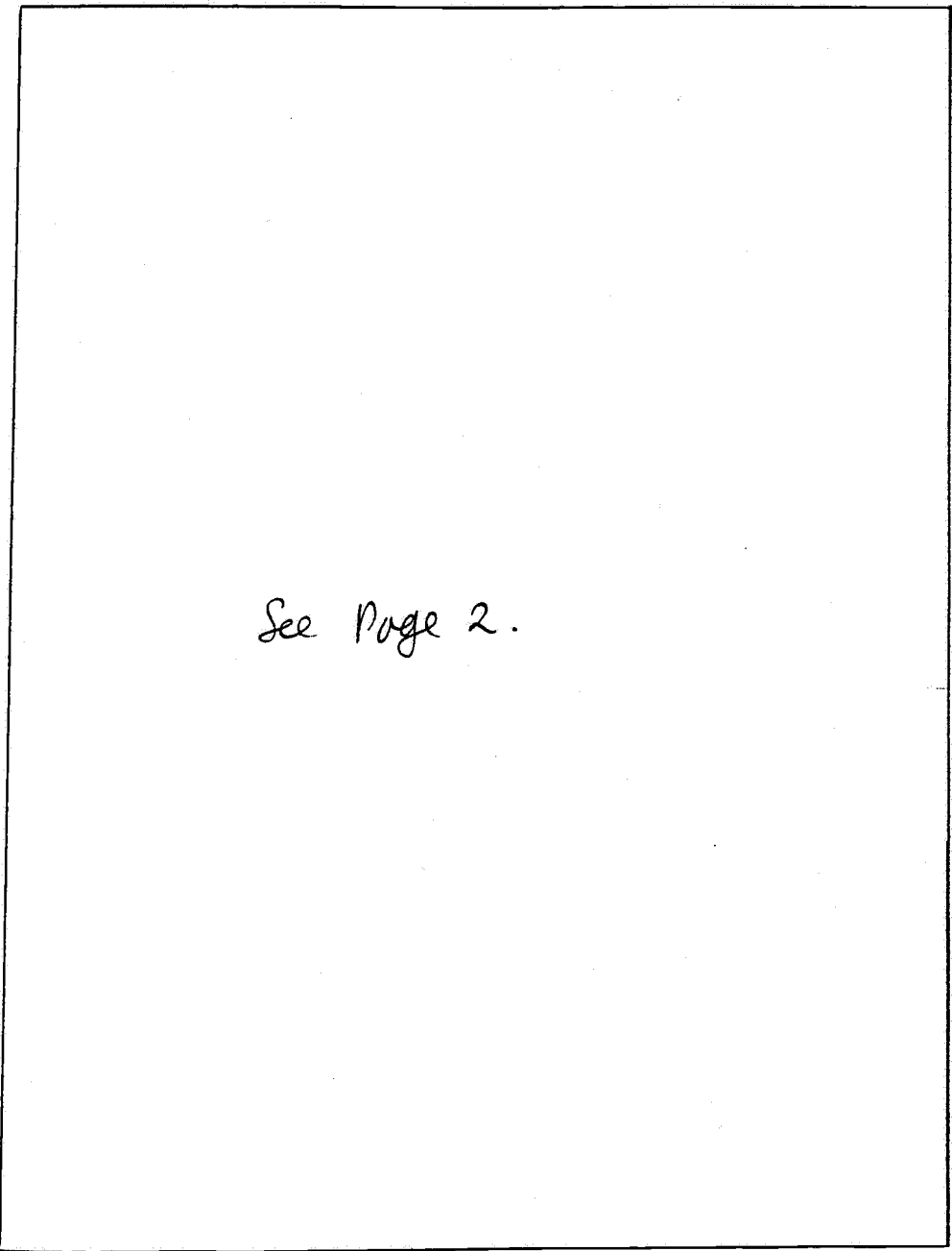
TRAVERSE DETAILS:-			
COORDINATE	STATION NO	SPACING	LANDMARK
1000	574	10m	Road bend, Creek Mt, Yellow Telecom
			post S, main road.
	576	"	white guide post, S. (1)
	582	"	Fence L, S.
	591	"	white guide post, S (2)
	607	"	" " " " (3)
	612	"	" " " " (4)
	615	"	Power line overhead
	622	"	white guide post, S (5)
	632	"	" " " " (6)
1600	634	"	PD. box, "6 in wreath"
	642	"	white guide post, S (7)
	651	"	" " " " (8)
	658	"	Fence L- , S side
	661	"	white guide post, S (9)

REMARKS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



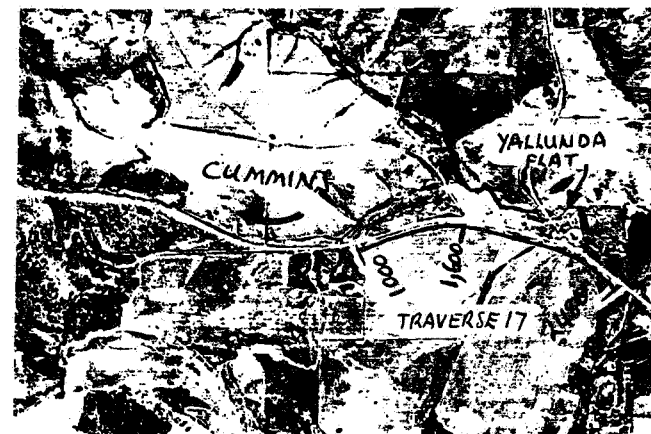
See Page 2.

PROJECT NO. CUMMINS LOCATION YALLUNDA  
 PROFILE NO. 17, Yallunda Flat ORIENTATION W → E  
 OPERATOR N. Blake DATE 22/1/85  
 PROFILE/REF. COORDINATES "17000" page 2  
 BASE STATION NOS. (Start) \_\_\_\_\_

BASE STATION NOS. (Finish) \_\_\_\_\_

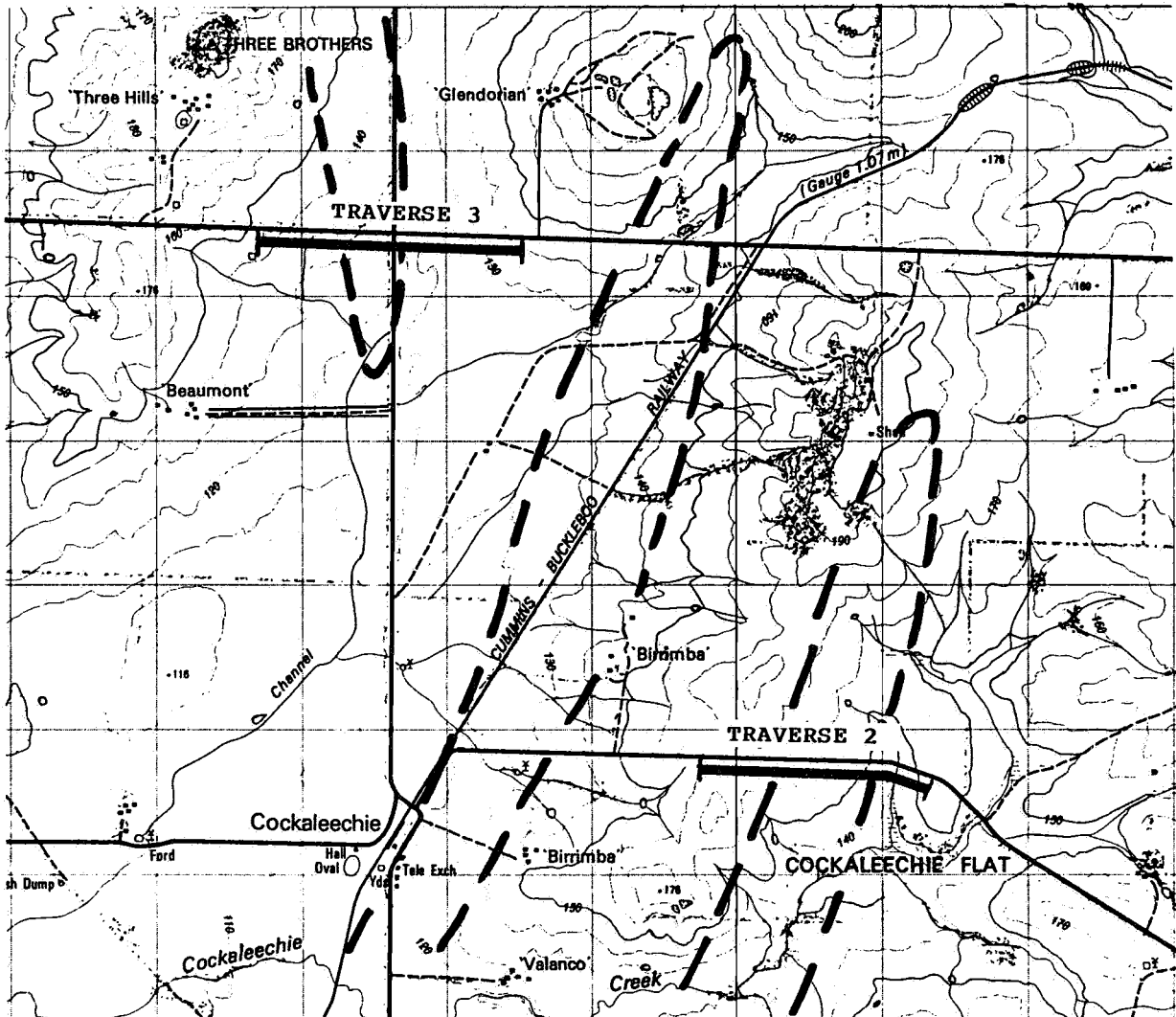
TRAVERSE DETAILS:-			
COORDINATE	STATION NO	SPACING	LANDMARK
	677	"	Yellow junction sign, NTH. windmill STH, Telephone cable
	687	"	White guide post, S, (10)
	688	"	" " " " (11)
	691	"	Pole line over head
	693	"	Sign post, Cochrane chie
	703	"	Five wish sign NTH.
	709	"	White guide post, (13), & yellow junction sign STH side.
2,480	722	"	EOT. Yallunda Flat access. white guide post (14).
REMARKS: _____			
_____			
_____			
_____			

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT



1:40,000

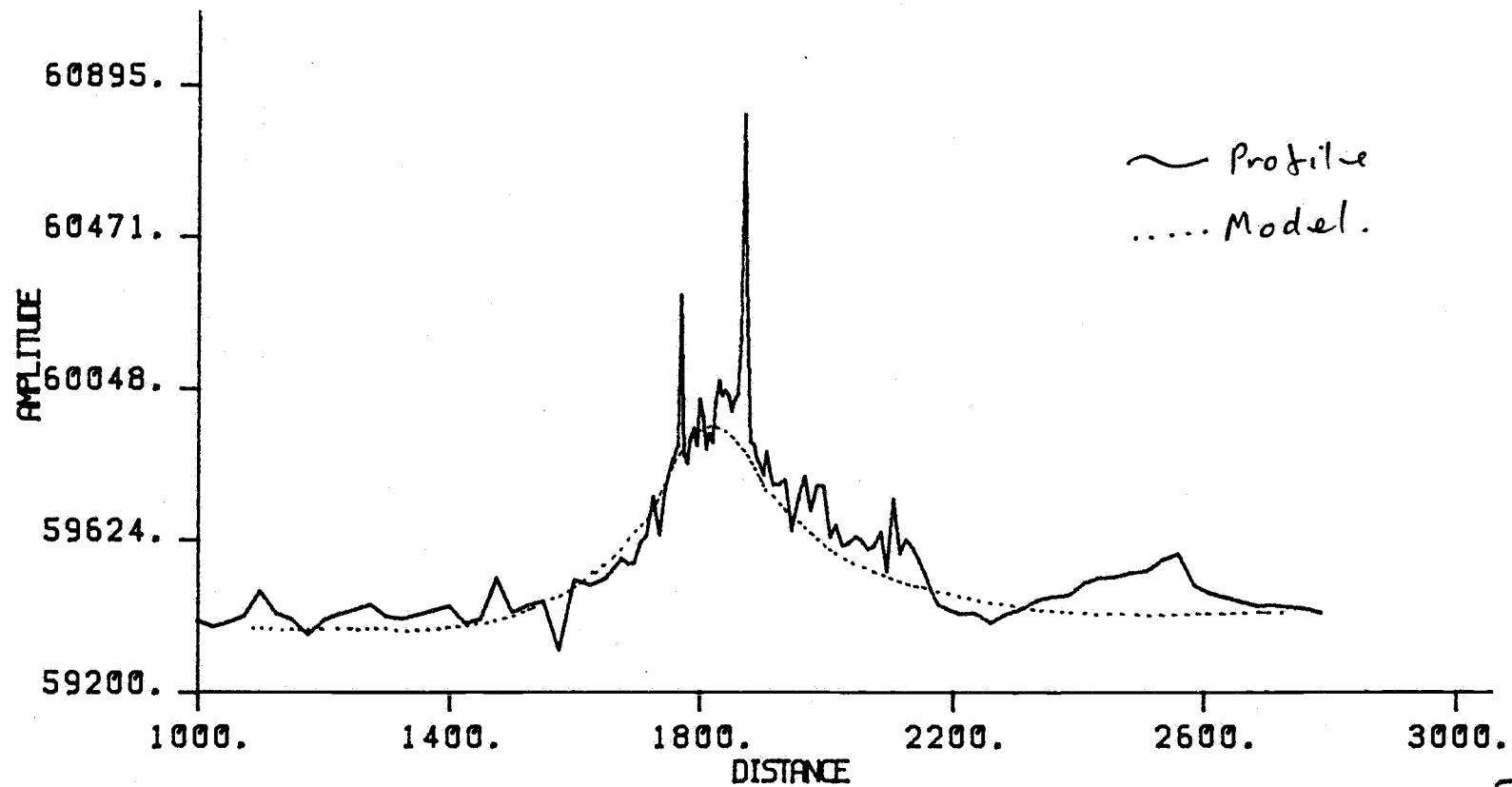
\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc.,



1: 50,000

**COCKALEECHIE - CUMMINS  
GROUND MAGNETIC PROFILES  
TRAVERSES 2 & 3**

# COCKALEECHIE - CUMMINS - TRAVERSE NO. 2



W

E

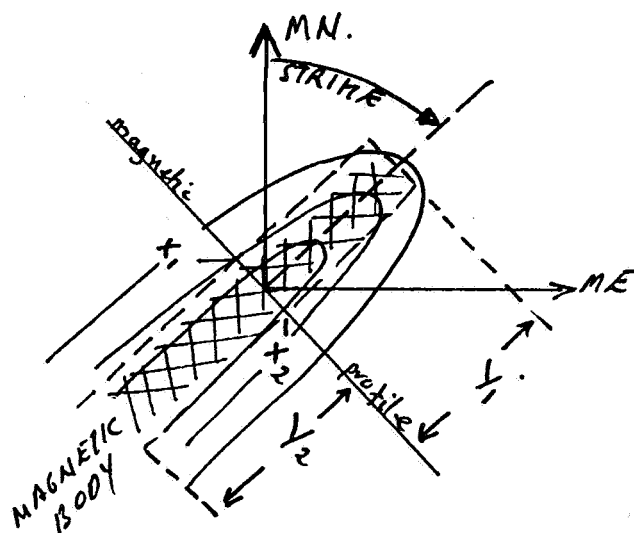
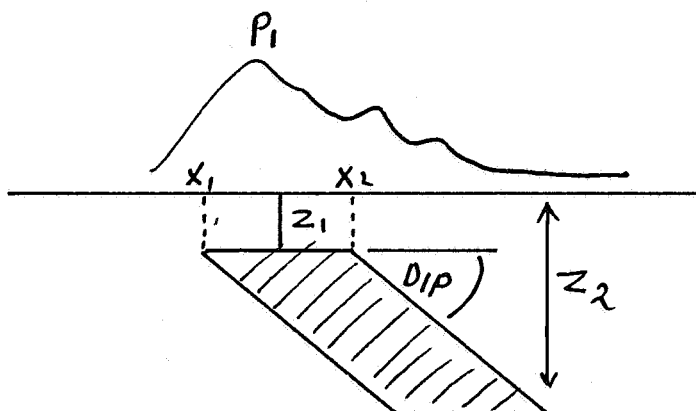
060

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MODEL PARAMETERS.PROFILE NO: 2 LOCATION: COCHALFECHIE - CUMMINS.

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1750				
X <sub>2</sub>	1850				
Y <sub>1</sub> strike	-10000				
Y <sub>2</sub>	+10,000				
Z <sub>1</sub> Depth	120				
Z <sub>2</sub> Thick	5000				
Sucept.	0.008				
Dip.	80°				
STRIKE	5°				



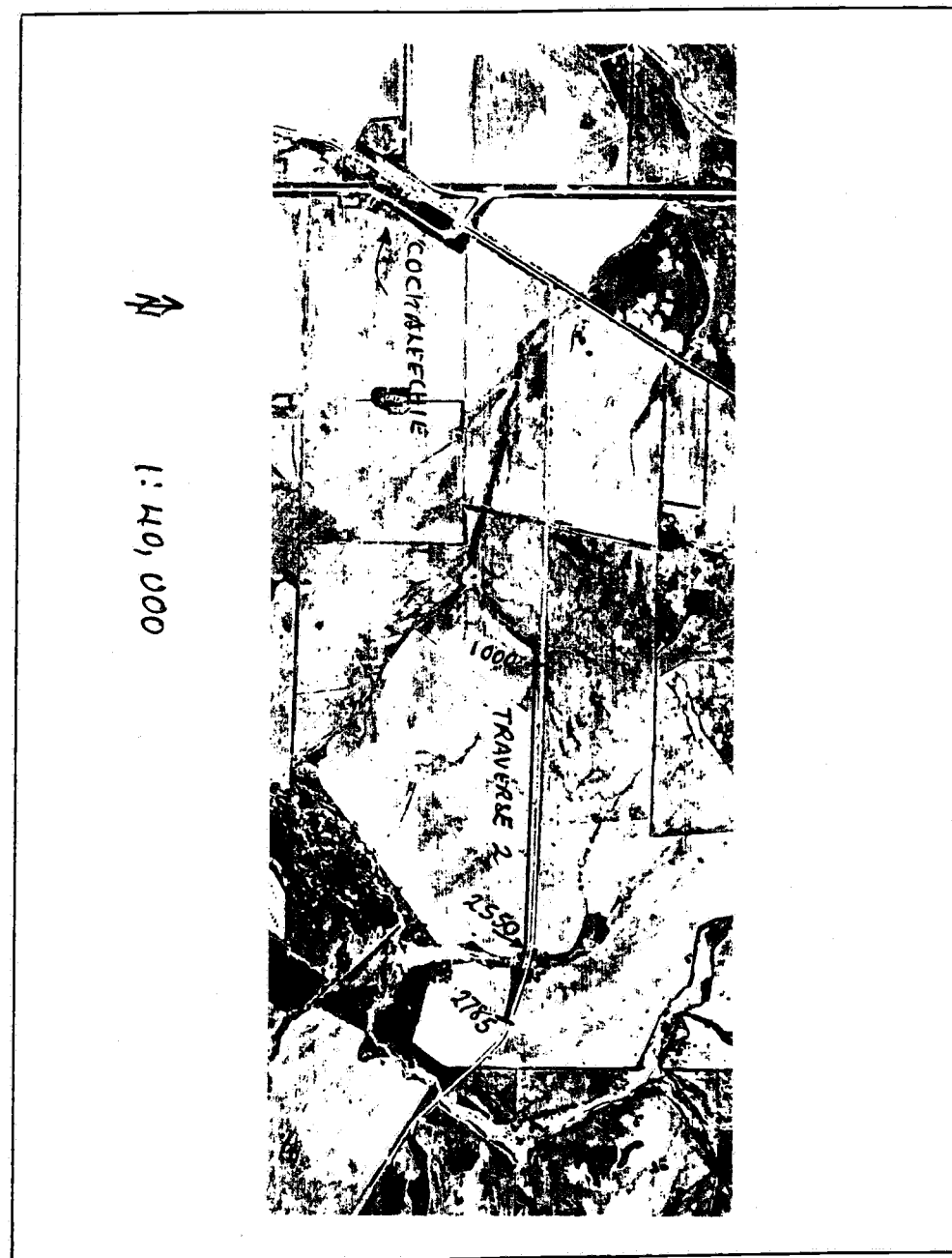
## COCHALEECHIE - CUMMINS - TRAVERSANO 2.

1000.	2000.	59401.2	1875.	2000.	60232.4
1025.	2000.	59384.5	1880.	2000.	59898.1
1050.	2000.	59397.4	1885.	2000.	59888.4
1075.	2000.	59414.3	1890.	2000.	59849.4
1100.	2000.	59485.7	1895.	2000.	59835.6
1125.	2000.	59422.5	1900.	2000.	59803.9
1150.	2000.	59404.3	1905.	2000.	59870.6
1175.	2000.	59362.6	1915.	2000.	59777.5
1200.	2000.	59404.2	1925.	2000.	59777.5
1225.	2000.	59420.8	1935.	2000.	59792.6
1250.	2000.	59433.1	1945.	2000.	59651.7
1275.	2000.	59446.6	1955.	2000.	59740.1
1300.	2000.	59412.6	1965.	2000.	59803.3
1325.	2000.	59405.6	1975.	2000.	59708.1
1350.	2000.	59418.0	1985.	2000.	59776.3
1375.	2000.	59431.4	1995.	2000.	59775.6
1400.	2000.	59441.9	2005.	2000.	59631.7
1425.	2000.	59393.3	2015.	2000.	59666.1
1450.	2000.	59405.7	2025.	2000.	59609.1
1475.	2000.	59521.9	2035.	2000.	59617.2
1500.	2000.	59425.2	2045.	2000.	59634.3
1525.	2000.	59444.5	2055.	2000.	59624.4
1550.	2000.	59456.4	2065.	2000.	59598.9
1575.	2000.	59319.0	2075.	2000.	59609.2
1600.	2000.	59515.4	2085.	2000.	59649.0
1625.	2000.	59501.9	2095.	2000.	59537.5
1650.	2000.	59522.0	2105.	2000.	59740.7
1675.	2000.	59576.8	2115.	2000.	59588.5
1685.	2000.	59560.4	2125.	2000.	59626.6
1695.	2000.	59563.3	2135.	2000.	59604.5
1705.	2000.	59620.8	2145.	2000.	59569.9
1715.	2000.	59641.2	2155.	2000.	59530.2
1725.	2000.	59747.1	2165.	2000.	59487.4
1735.	2000.	59641.7	2175.	2000.	59448.4
1745.	2000.	59768.4	2185.	2000.	59439.4
1755.	2000.	59843.4	2210.	2000.	59419.9
1765.	2000.	59893.1	2235.	2000.	59423.3
1770.	2000.	60308.6	2260.	2000.	59395.7
1775.	2000.	59862.3	2285.	2000.	59420.1
1780.	2000.	59837.9	2310.	2000.	59434.3
1785.	2000.	59908.6	2335.	2000.	59459.2
1790.	2000.	59936.9	2360.	2000.	59468.7
1795.	2000.	59889.9	2385.	2000.	59473.2
1800.	2000.	60018.0	2410.	2000.	59507.9
1805.	2000.	59968.7	2435.	2000.	59520.9
1810.	2000.	59879.5	2460.	2000.	59524.5
1815.	2000.	59924.6	2485.	2000.	59535.8
1820.	2000.	59897.6	2510.	2000.	59539.1
1825.	2000.	60010.2	2535.	2000.	59571.2
1830.	2000.	60072.0	2560.	2000.	59587.2
1835.	2000.	60026.1	2585.	2000.	59498.7
1840.	2000.	60042.5	2610.	2000.	59478.4
1845.	2000.	60028.2	2635.	2000.	59467.5
1850.	2000.	59984.3	2660.	2000.	59454.6
1855.	2000.	60015.1	2685.	2000.	59442.6
1860.	2000.	60035.1	2710.	2000.	59445.0
1865.	2000.	60185.7	2735.	2000.	59438.4
1870.	2000.	60812.2	2760.	2000.	59434.7
			2785.	2000.	59422.1

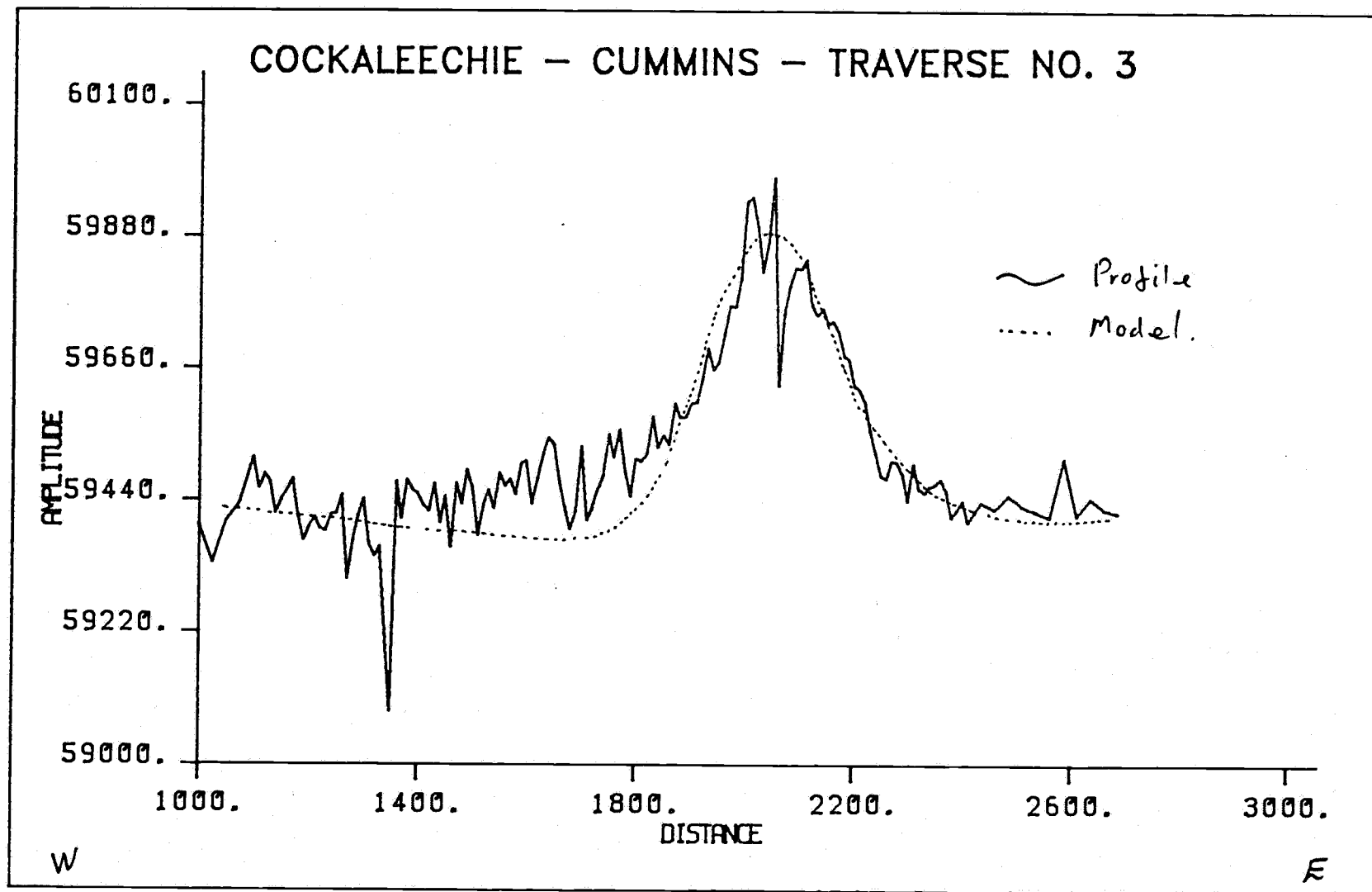
PROJECT NO. CUMMINS LOCATION CUMMINS  
 PROFILE NO. 2, "Binimba" ORIENTATION EAST  
 OPERATOR N. Blake DATE 17/1/85  
 PROFILE/REF. COORDINATES "2000" EAST  
 BASE STATION NOS. (Start) — 14.54 hrs.  
 BASE STATION NOS. (Finish) — 16.15 hrs.

TRAVERSE DETAILS:-			
COORDINATE	STATION NO	SPACING	LANDMARK
1000	434	25m	Top of hill, N side of road, between two small trees.
	447	"	Line of trees, N. side of road
	452	"	gate south side road.
1675	461	10m	
	467	"	Leak, 2 bushes, N side
1765	470	5m	
	496	"	Shrub trough, N. side fence
1905	498	10m	
	511	"	Skorade, south side
2160	526	25m	
	531	"	2m Edgate, south side
	540/541	"	road bend
	544	"	edge of scrubby range +10m
2785	550	"	EOT, 50m W of hill crest
REMARKS:			

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;



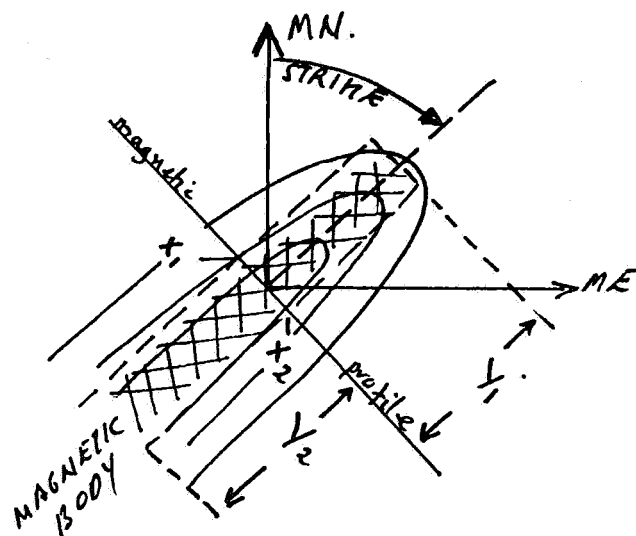
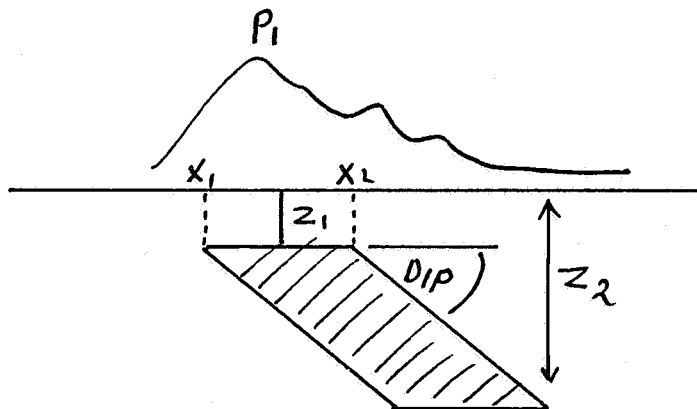
\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc.,



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PROFILE NO: 3 LOCATION: COCHALEECHIE-CUMMINIS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1900				
X <sub>2</sub>	2100				
Y <sub>1</sub> strike	-1000				
Y <sub>2</sub>	+1000				
Z <sub>1</sub> Depth	120				
Z <sub>2</sub> Thich	500				
Sucept.	0.005				
Dip.	70°				
STRIKE	5°				



## COCHALEUCHE - CUMMINS

## TRAVERSE 3 P1.

1000.	3000.	59398.9			
1025.	3000.	59335.0			
1050.	3000.	59405.9			
1075.	3000.	59435.0			
1100.	3000.	59512.0			
1110.	3000.	59459.1			
1120.	3000.	59484.2			
1130.	3000.	59469.6			
1140.	3000.	59417.9			
1150.	3000.	59441.6			
1160.	3000.	59457.2			
1170.	3000.	59476.8			
1180.	3000.	59416.1			
1190.	3000.	59372.9			
1200.	3000.	59396.8			
1210.	3000.	59412.5			
1220.	3000.	59392.7			
1230.	3000.	59388.3			
1240.	3000.	59416.6			
1250.	3000.	59418.0			
1260.	3000.	59448.9			
1270.	3000.	59308.6			
1280.	3000.	59373.1			
1290.	3000.	59413.2			
1300.	3000.	59442.7			
1310.	3000.	59366.6			
1320.	3000.	59346.6			
1330.	3000.	59362.6			
1340.	3000.	59221.9			
1350.	3000.	59088.7			
1360.	3000.	59471.5			
1370.	3000.	59409.2			
1380.	3000.	59473.9			
1390.	3000.	59457.4			
1400.	3000.	59449.3			
1410.	3000.	59431.7			
1420.	3000.	59420.6			
1430.	3000.	59468.2			
1440.	3000.	59402.1			
1450.	3000.	59446.6			
1460.	3000.	59361.3			
1470.	3000.	59468.6			
1480.	3000.	59433.5			
1490.	3000.	59490.9			
1500.	3000.	59460.2			
1510.	3000.	59380.7			
1520.	3000.	59431.8			
1530.	3000.	59457.5			
1540.	3000.	59425.6			
1550.	3000.	59486.0			
			1560.	3000.	59464.0
			1570.	3000.	59475.0
			1580.	3000.	59450.3
			1590.	3000.	59501.8
			1600.	3000.	59505.8
			1610.	3000.	59434.3
			1620.	3000.	59476.4
			1630.	3000.	59518.3
			1640.	3000.	59544.1
			1650.	3000.	59533.1
			1660.	3000.	59470.7
			1670.	3000.	59425.6
			1680.	3000.	59391.3
			1690.	3000.	59423.3
			1700.	3000.	59531.1
			1710.	3000.	59407.1
			1720.	3000.	59428.5
			1730.	3000.	59457.6
			1740.	3000.	59482.9
			1750.	3000.	59550.6
			1760.	3000.	59512.0
			1770.	3000.	59258.2
			1780.	3000.	59490.1
			1790.	3000.	59247.0
			1800.	3000.	59509.6
			1810.	3000.	59504.9
			1820.	3000.	59518.0
			1830.	3000.	59579.7
			1840.	3000.	59527.8
			1850.	3000.	59548.8
			1860.	3000.	59532.9
			1870.	3000.	59602.7
			1880.	3000.	59577.6
			1890.	3000.	59578.0
			1900.	3000.	59601.8
			1910.	3000.	59603.8
			1920.	3000.	59640.7
			1930.	3000.	59693.8
			1940.	3000.	59657.8
			1950.	3000.	59669.8
			1960.	3000.	59716.9
			1970.	3000.	59764.5
			1980.	3000.	59762.5
			1990.	3000.	59809.5
			2000.	3000.	58939.5

## COCHALEECHIE - CUMMINS

## TRAVERSE 3 P2.

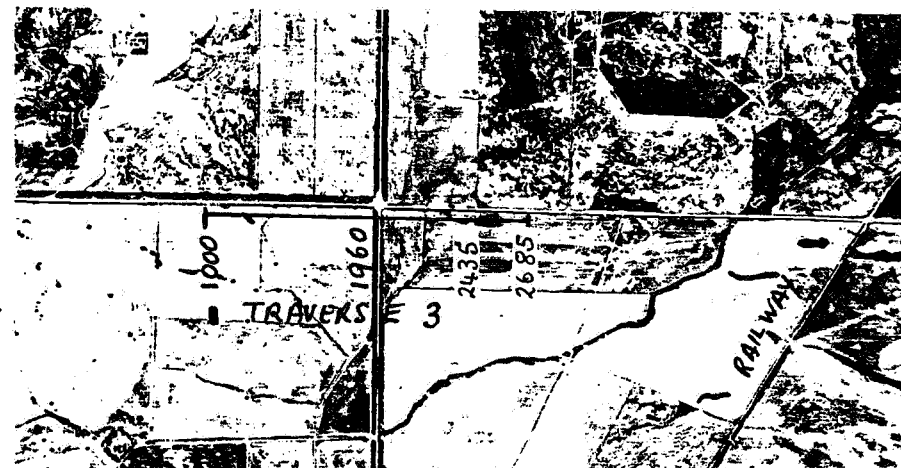
2010.	3000.	58946.4
2020.	3000.	59895.0
2030.	3000.	59822.0
2040.	3000.	59871.5
2050.	3000.	59979.8
2060.	3000.	59631.5
2070.	3000.	59751.4
2080.	3000.	59798.3
2090.	3000.	59828.5
2100.	3000.	59826.8
2110.	3000.	59842.5
2120.	3000.	59765.9
2130.	3000.	59747.7
2140.	3000.	59760.4
2150.	3000.	59734.4
2160.	3000.	59738.5
2170.	3000.	59721.2
2180.	3000.	59680.8
2190.	3000.	59674.6
2200.	3000.	59631.5
2210.	3000.	59624.0
2220.	3000.	59603.8
2230.	3000.	59558.5
2240.	3000.	59520.4
2250.	3000.	59483.1
2260.	3000.	59476.4
2270.	3000.	59506.4
2280.	3000.	59504.2
2290.	3000.	59484.2
2300.	3000.	59441.2
2310.	3000.	59502.1
2320.	3000.	59460.4
2330.	3000.	59452.9
2240.	3000.	59465.3
2350.	3000.	59468.2
2360.	3000.	59477.8
2370.	3000.	59456.8
2380.	3000.	59413.1
2390.	3000.	59426.0
2400.	3000.	59440.6
2410.	3000.	59405.3
2435.	3000.	59438.3
2460.	3000.	59425.6
2485.	3000.	59450.6
2510.	3000.	59431.8
2535.	3000.	59422.8
2560.	3000.	59413.8
2585.	3000.	59511.7
2610.	3000.	59416.3
2635.	3000.	59445.9
2660.	3000.	59427.5
2685.	3000.	59420.8

PROJECT NO. CUMMINS LOCATION \_\_\_\_\_PROFILE NO. 3, Cloverdale ORIENTATION W → EOPERATOR N. Blake DATE 19/1/85PROFILE/REF. COORDINATES "3000"

BASE STATION NOS. (Start) \_\_\_\_\_

BASE STATION NOS. (Finish) 16.44 has D 146

TRAVERSE DETAILS:-			
COORDINATE	STATION NO	SPACING	LANDMARK
1960	0	25m	Red Fews Plug, Stk side, East of Rd. <i>Intersect</i>
	"3"	10m	
	25	"	Fews Red plug opp.
	33	25m	
2435	36	"	Gate Nth side of road.
2685	46	"	
1000	47	25m	
1100	50	10m.	
1250	60	"	Yellow Fews; post-service
1340	76	"	Red Fews plug
1620	97	"	Yellow Fews; post-service
1820	117	"	Yellow cross road sign
1960	131	"	Intersection of Gros woods (= "0")
	146	"	Yellow road sign as above EOT
REMARKS: <u>Two stages "0" - 46, 47 → 146, (146 = "0")</u>			

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT

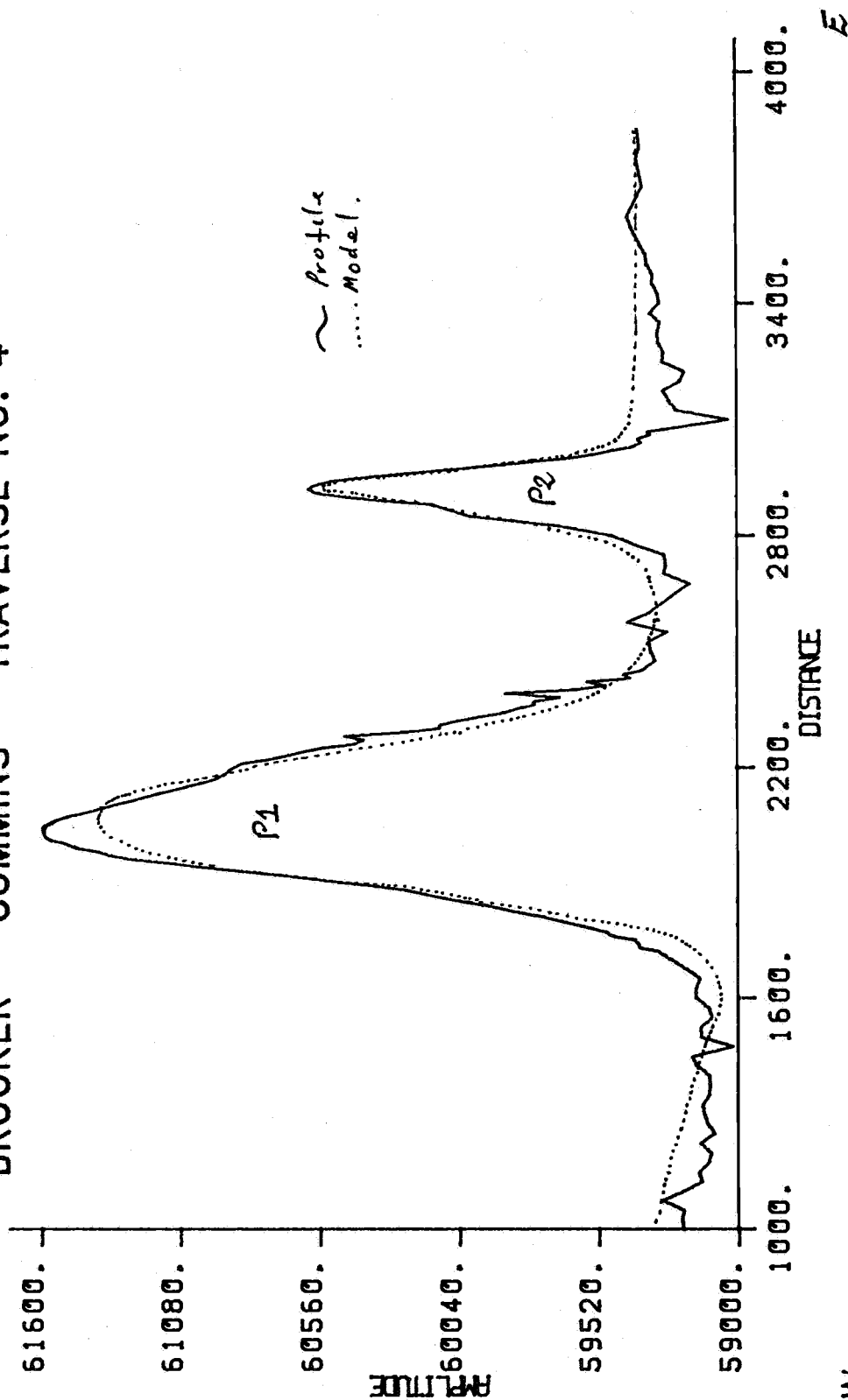
1:40,000

\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc..





BROOKER - CUMMINS - TRAVERSE NO. 4

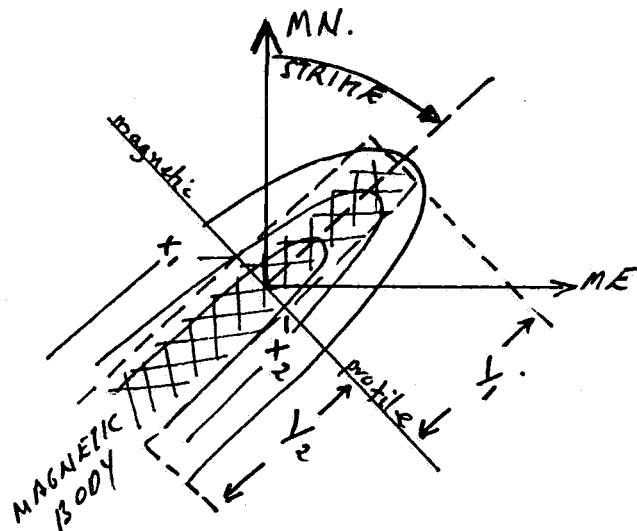
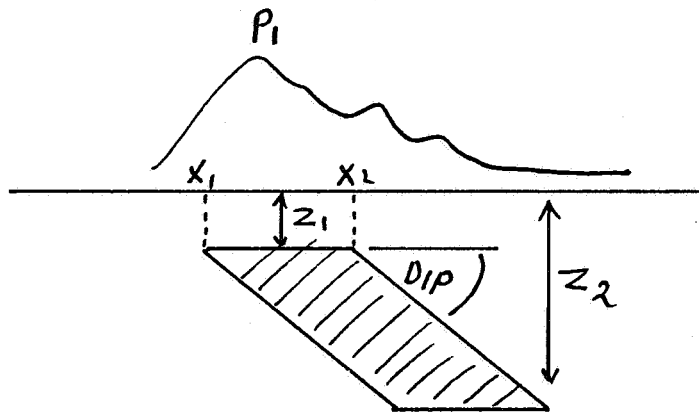


MODEL PARAMETERS.

071

PROFILE NO: 4 LOCATION: BROOKER-CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1840	2825			
X <sub>2</sub>	2180	3010			
Y <sub>1</sub> strike	-1000	-1000			
Y <sub>2</sub>	+1000	+1000			
Z <sub>1</sub> Depth	100	71			
Z <sub>2</sub> Thick	600	6000			
Sucept.	0.015	0.008			
Dip.	70°	90°			
STRIKE	5°	5°			



## BROOKER - CUMMINS - TRAVERSE #

PI

1000.	4000.	59206.8			
1025.	4000.	59212.5			
1050.	4000.	59206.4			
1075.	4000.	59288.4			
1100.	4000.	59208.3		1940.	4000. 61010.1
1125.	4000.	59139.8		1950.	4000. 61124.9
1150.	4000.	59150.7		1960.	4000. 61256.3
1175.	4000.	59114.2		1970.	4000. 61339.9
1200.	4000.	59105.4		1980.	4000. 61386.8
1225.	4000.	59146.4		1990.	4000. 61481.0
1250.	4000.	59090.9		2000.	4000. 61488.1
1275.	4000.	59119.4		2010.	4000. 61557.9
1300.	4000.	59131.9		2020.	4000. 61578.3
1325.	4000.	59137.3		2030.	4000. 61581.1
1350.	4000.	59110.6		2040.	4000. 61574.9
1375.	4000.	59108.3		2050.	4000. 61556.9
1400.	4000.	59112.0		2060.	4000. 61531.5
1425.	4000.	59159.6		2070.	4000. 61494.2
1450.	4000.	59176.4		2080.	4000. 61442.8
1475.	4000.	59021.9		2090.	4000. 61388.9
1500.	4000.	59142.6		2100.	4000. 61331.8
1525.	4000.	59144.5		2110.	4000. 61270.9
1550.	4000.	59102.4		2120.	4000. 61216.6
1575.	4000.	59113.7		2130.	4000. 61158.9
1600.	4000.	59161.1		2140.	4000. 61107.9
1625.	4000.	59161.3		2150.	4000. 61052.0
1650.	4000.	59145.6		2160.	4000. 60990.3
1675.	4000.	59197.6		2170.	4000. 60943.8
1700.	4000.	59258.4		2180.	4000. 60912.6
1710.	4000.	59282.6		2190.	4000. 60895.6
1720.	4000.	59304.8		2200.	4000. 60876.8
1730.	4000.	59370.1		2210.	4000. 60844.8
1740.	4000.	59375.2		2220.	4000. 60745.3
1750.	4000.	59391.9		2230.	4000. 60675.2
1760.	4000.	59474.3		2240.	4000. 60614.9
1770.	4000.	59497.1		2250.	4000. 60552.5
1780.	4000.	59553.7		2260.	4000. 60430.3
1790.	4000.	59605.5		2270.	4000. 60393.1
1800.	4000.	59667.0		2280.	4000. 60465.4
1810.	4000.	59729.9		2290.	4000. 60241.7
1820.	4000.	59809.5		2300.	4000. 60112.1
1830.	4000.	59878.4		2310.	4000. 60109.9
1840.	4000.	59945.4		2320.	4000. 60047.3
1850.	4000.	60021.6		2330.	4000. 59964.6
1860.	4000.	60099.6		2340.	4000. 59873.3
1870.	4000.	60171.1		2350.	4000. 59828.6
1880.	4000.	60239.8		2360.	4000. 59758.1
1890.	4000.	60348.3		2370.	4000. 59760.8
1900.	4000.	60463.3		2380.	4000. 59665.8
1910.	4000.	60586.6		2390.	4000. 59867.3
1920.	4000.	60712.3		2400.	4000. 59605.0
1930.	4000.	60862.7		2410.	4000. 59495.5

## BROOKER - CUMMINS - TRAVERS 4

P2

2420.	4000.	59565.7		
2430.	4000.	59405.1		
2440.	4000.	59428.8		
2450.	4000.	59358.7		
2475.	4000.	59310.6		
2500.	4000.	59327.1		
2525.	4000.	59333.9		
2550.	4000.	59268.7		
2575.	4000.	59414.4		
2600.	4000.	59332.9		
2625.	4000.	59282.9		
2650.	4000.	59232.9		
2675.	4000.	59181.4		
2700.	4000.	59277.5		
2725.	4000.	59270.7		
2750.	4000.	59276.9	3325.	4000. 59297.2
2775.	4000.	59381.6	3350.	4000. 59288.1
2800.	4000.	59475.9	3375.	4000. 59328.0
2825.	4000.	59673.8	3400.	4000. 59291.1
2850.	4000.	59996.0	3425.	4000. 59294.1
2880.	4000.	60144.5	3450.	4000. 59318.7
2890.	4000.	60337.7	3475.	4000. 59315.8
2900.	4000.	60456.1	3500.	4000. 59337.3
2910.	4000.	60569.1	3525.	4000. 59338.8
2920.	4000.	60602.1	3550.	4000. 59361.3
2930.	4000.	60580.2	3575.	4000. 59378.9
2940.	4000.	60518.7	3600.	4000. 59396.7
2950.	4000.	60424.0	3625.	4000. 59409.4
2960.	4000.	60262.8	3650.	4000. 59391.6
2970.	4000.	60088.3	3675.	4000. 59372.4
2980.	4000.	59926.9	3700.	4000. 59351.7
2990.	4000.	59776.3	3725.	4000. 59358.9
3000.	4000.	59625.6	3750.	4000. 59367.8
3010.	4000.	59543.9	3775.	4000. 59373.4
3020.	4000.	59472.5	3800.	4000. 59362.3
3030.	4000.	59393.0	3825.	4000. 59365.7
3040.	4000.	59359.4	3850.	4000. 59372.5
3050.	4000.	59372.3		
3060.	4000.	59323.9		
3070.	4000.	59334.4		
3075.	4000.	59278.0		
3100.	4000.	59034.1		
3125.	4000.	59228.7		
3150.	4000.	59257.2		
3175.	4000.	59278.1		
3200.	4000.	59212.9		
3225.	4000.	59199.5		
3250.	4000.	59280.6		
3275.	4000.	59275.4		
3300.	4000.	59295.9		

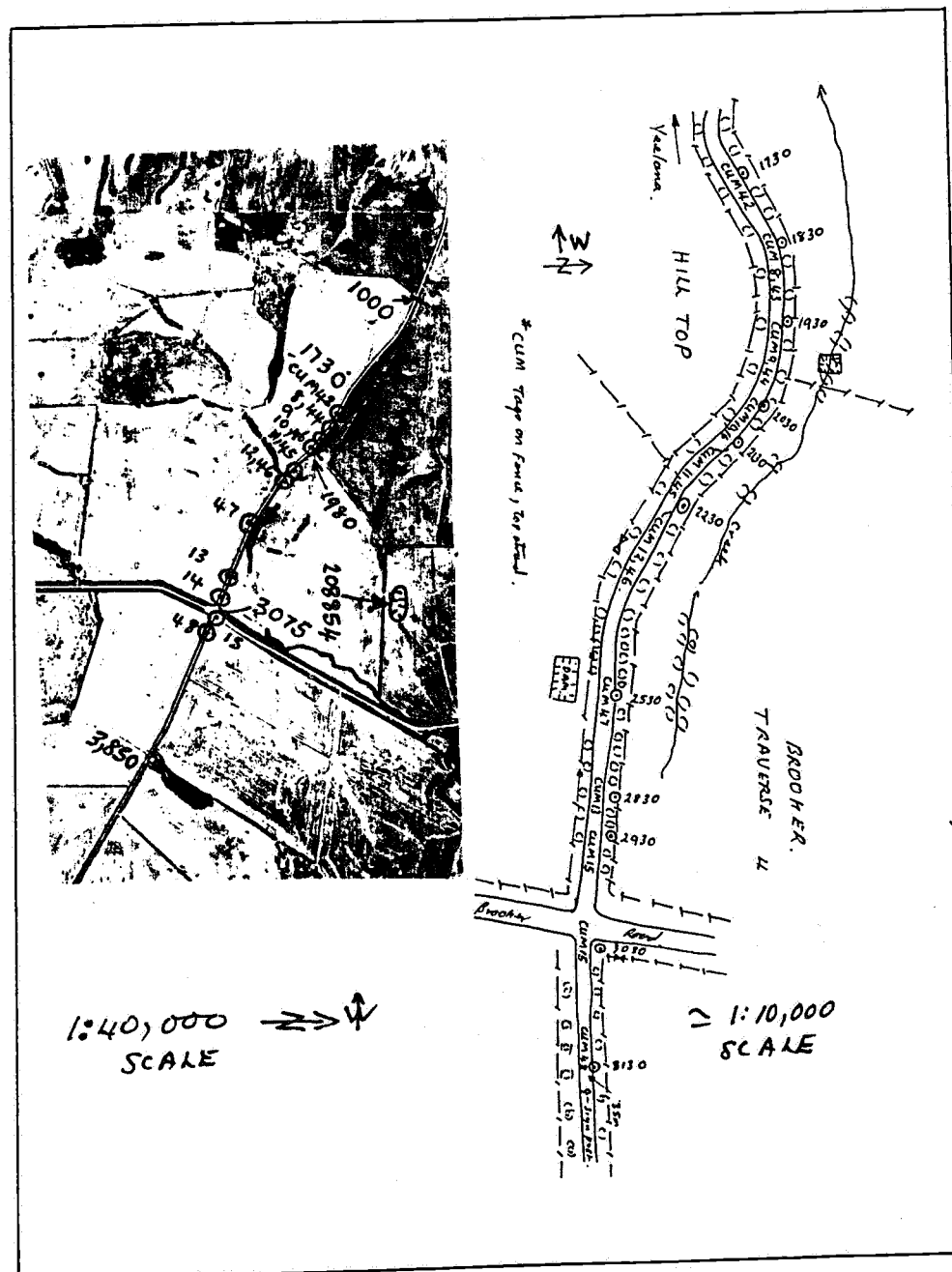
PROJECT NO. CUMMINS LOCATION BROOKER  
 PROFILE NO. 4, Brookham ORIENTATION E → W  
 OPERATOR N. Blake DATE 18/1/85  
 PROFILE/REF. COORDINATES "4000"  
 BASE STATION NOS. (Start) 13.00 to ?  
 BASE STATION NOS. (Finish) 15.43 km

## TRAVERSE DETAILS:-

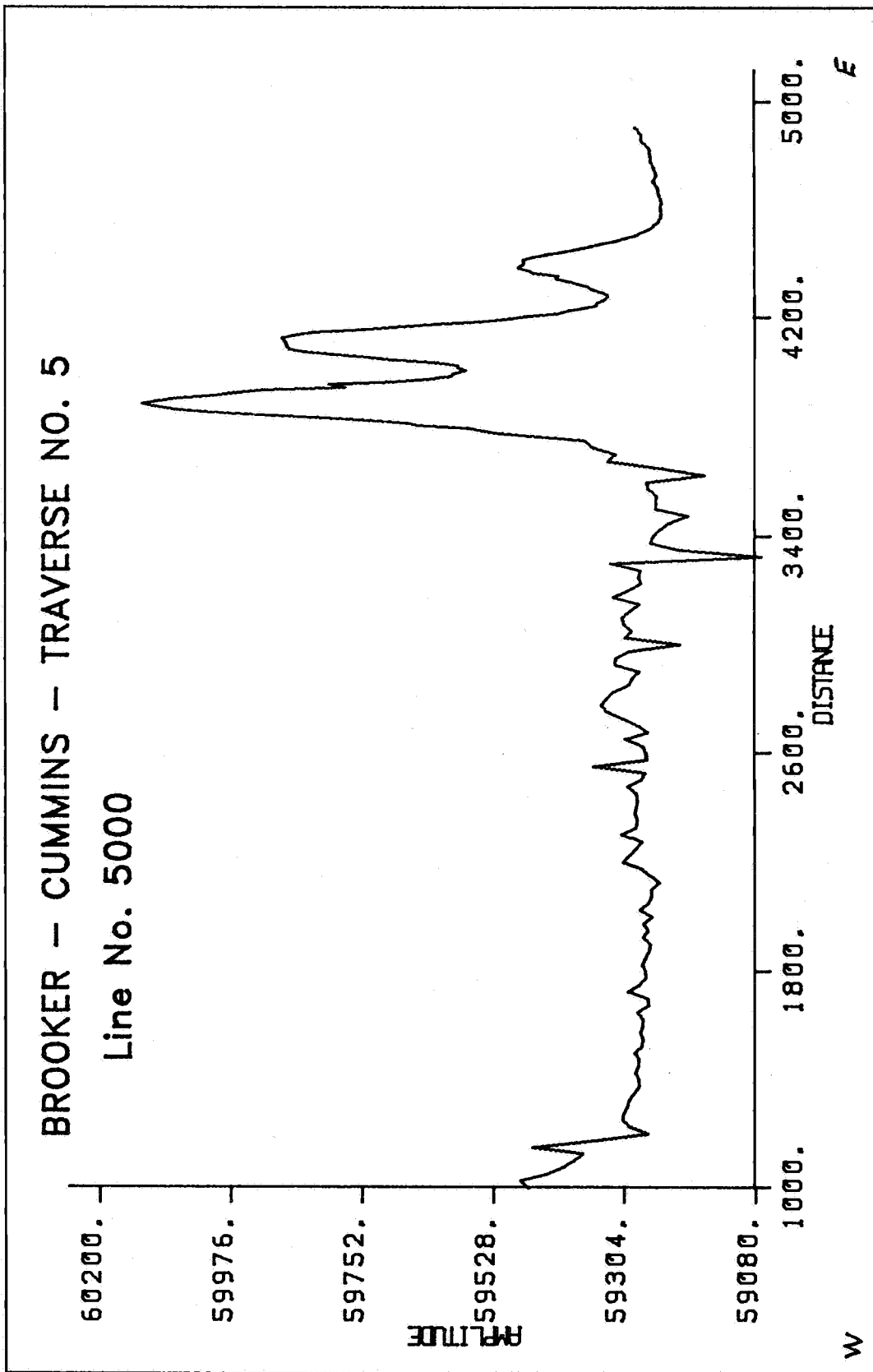
COORDINATE	STATION NO	SPACING	LANDMARK
1000	850	25m	"Freedom Hills" Sign post.
1700	878	10m	Cement station, S. side
1980	906		Fence T on north.
2030	911		high values.
2300	938		Fence T on south, Fywell
2460	954		
2500		25 m	
	960		Fence T on south side
2850	969	10m	
	976		Yellow X road sign
3075	988/89	25m	Road intersection
	1021		EOT, Creek mid stream

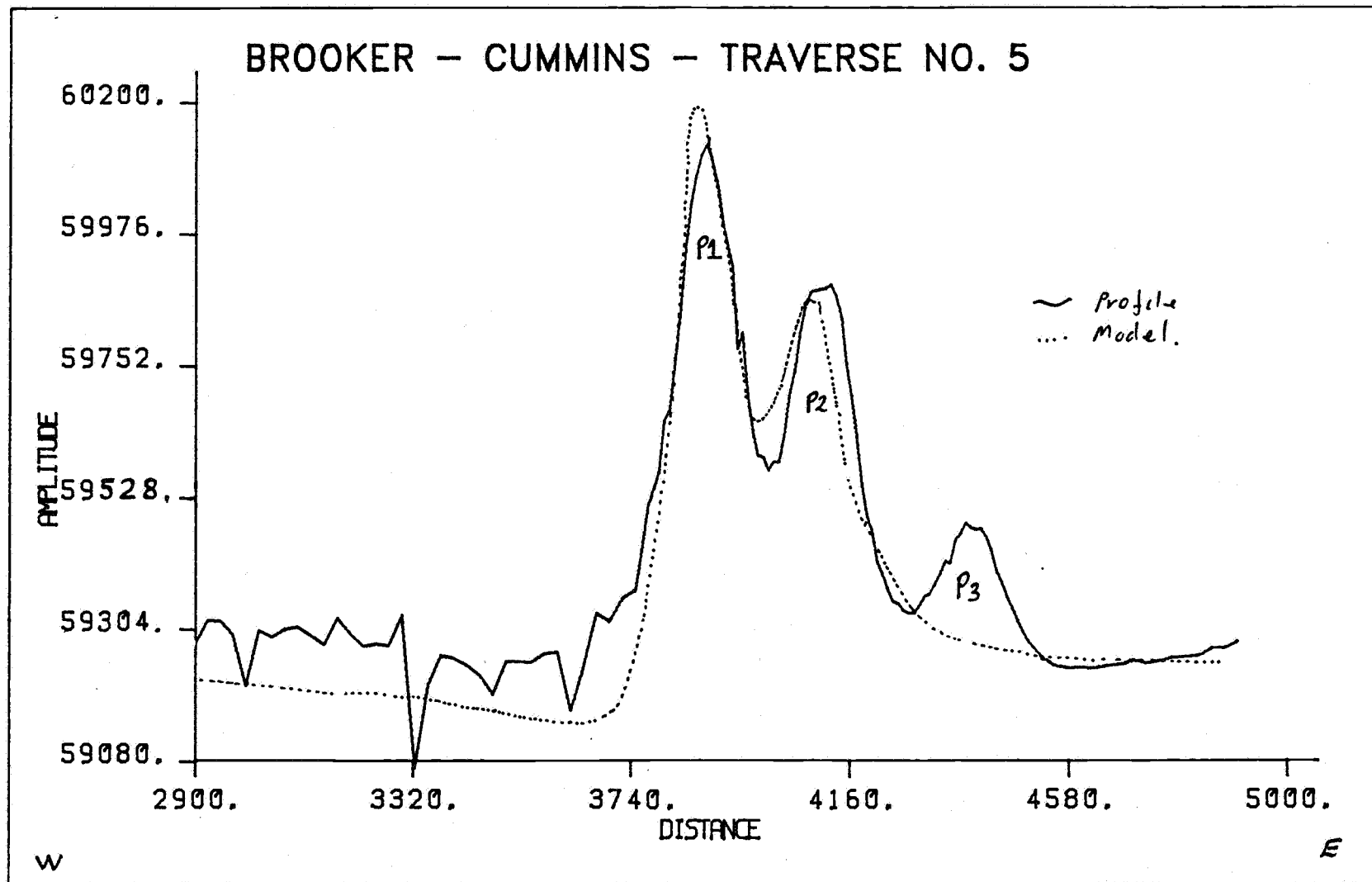
REMARKS: Corrected up 5m at 3070 & made 3075.

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;



\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc..





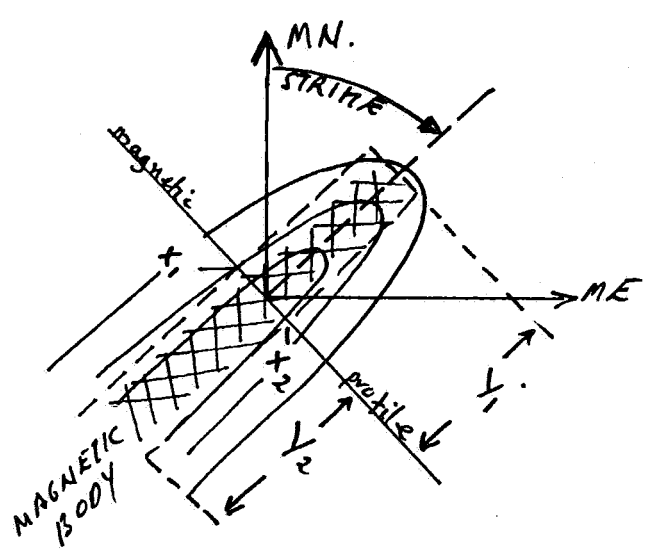
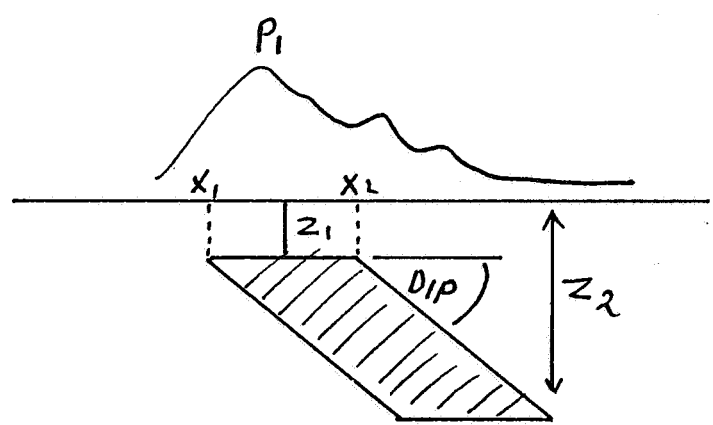


# MODEL PARAMETERS.

077

PROFILE NO: 5 LOCATION: BROOKER-CUMMINS.

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	3800	4050	ED		
X <sub>2</sub>	3890	4100	EL		
Y <sub>1</sub> strike	-1000	-1000	OD		
Y <sub>2</sub>	+1000	+1000	M		
Z <sub>1</sub> Depth	53	70			
Z <sub>2</sub> Thick	5000	500	T		
Sucept.	0.0009	0.0009	0		
Dip.	70°	80°	Z		
STRIKE	5°	5°			



## BROOKER - CUMMINS - TRAVERSE S

P1

1000.	5000.	59469.3		
1025.	5000.	59482.0		
1050.	5000.	59436.1		
1075.	5000.	59408.0		
1100.	5000.	59389.4		
1125.	5000.	59374.1		
1150.	5000.	59461.2		
1175.	5000.	59356.0		
1200.	5000.	59264.1		
1225.	5000.	59294.7	2425.	5000. 59282.3
1250.	5000.	59307.9	2450.	5000. 59285.1
1275.	5000.	59305.3	2475.	5000. 59299.3
1300.	5000.	59298.8	2500.	5000. 59275.8
1325.	5000.	59295.4	2525.	5000. 59268.9
1350.	5000.	59287.7	2550.	5000. 59358.0
1375.	5000.	59278.3	2575.	5000. 59265.5
1400.	5000.	59280.0	2600.	5000. 59267.8
1425.	5000.	59285.2	2625.	5000. 59273.6
1450.	5000.	59279.9	2650.	5000. 59303.4
1475.	5000.	59279.3	2675.	5000. 59264.8
1500.	5000.	59285.7	2700.	5000. 59280.8
1525.	5000.	59273.4	2725.	5000. 59306.9
1550.	5000.	59272.1	2750.	5000. 59334.8
1575.	5000.	59276.6	2775.	5000. 59344.4
1600.	5000.	59272.5	2800.	5000. 59334.6
1625.	5000.	59272.2	2825.	5000. 59322.3
1650.	5000.	59281.7	2850.	5000. 59295.6
1675.	5000.	59262.8	2875.	5000. 59290.2
1700.	5000.	59263.6	2900.	5000. 59278.8
1725.	5000.	59298.0	2925.	5000. 59320.3
1750.	5000.	59279.1	2950.	5000. 59319.7
1775.	5000.	59266.7	2975.	5000. 59296.0
1800.	5000.	59267.6	3000.	5000. 59209.7
1825.	5000.	59273.5	3025.	5000. 59303.4
1850.	5000.	59267.6	3050.	5000. 59291.9
1875.	5000.	59261.8	3075.	5000. 59305.0
1900.	5000.	59259.0	3100.	5000. 59308.8
1925.	5000.	59272.2	3125.	5000. 59293.9
1950.	5000.	59262.6	3150.	5000. 59278.3
1975.	5000.	59271.4	3175.	5000. 59323.4
2000.	5000.	59255.9	3200.	5000. 59297.1
2025.	5000.	59277.4	3225.	5000. 59275.8
2050.	5000.	59263.1	3250.	5000. 59280.2
2075.	5000.	59257.5	3275.	5000. 59276.1
2100.	5000.	59257.0	3300.	5000. 59327.8
2125.	5000.	59243.0	3325.	5000. 59069.0
2150.	5000.	59260.3	3350.	5000. 59210.4
2175.	5000.	59275.5	3375.	5000. 59259.7
2200.	5000.	59307.0	3400.	5000. 59255.1
2225.	5000.	59295.0	3425.	5000. 59243.7
2250.	5000.	59283.9	3450.	5000. 59226.7
2275.	5000.	59273.2	3475.	5000. 59193.9
2300.	5000.	59309.8	3500.	5000. 59249.5
2325.	5000.	59284.5	3525.	5000. 59249.4
2350.	5000.	59282.4	3550.	5000. 59249.1
2375.	5000.	59286.2	3575.	5000. 59263.8
2400.	5000.	59283.8	3600.	5000. 59266.4

## BROOKER - CUMMINS - TRAVERSE 5 P2.

3625.	5000.	59166.2			
3650.	5000.	59240.1			
3675.	5000.	59332.1			
3700.	5000.	59318.2			
3725.	5000.	59358.0			
3750.	5000.	59372.0			
3775.	5000.	59515.7			
3785.	5000.	59545.5			
3795.	5000.	59572.0			
3805.	5000.	59657.0			
3815.	5000.	59677.7			
3825.	5000.	59756.1			
3835.	5000.	59833.7			
3845.	5000.	59950.3			
3855.	5000.	60025.8			
3865.	5000.	60073.3			
3875.	5000.	60110.0			
3885.	5000.	60128.3			
3895.	5000.	60104.0			
3905.	5000.	60064.4			
3915.	5000.	60004.4			
3925.	5000.	59960.9			
3935.	5000.	59919.6			
3945.	5000.	59779.4			
3955.	5000.	59807.7			
3965.	5000.	59699.1			
3975.	5000.	59639.5			
3985.	5000.	59599.3			
3995.	5000.	59596.0			
4005.	5000.	59574.3			
4015.	5000.	59588.6			
4025.	5000.	59588.3			
4035.	5000.	59632.5			
4045.	5000.	59700.7			
4055.	5000.	59742.2			
4065.	5000.	59805.0			
4075.	5000.	59850.1			
4085.	5000.	59877.4			
4095.	5000.	59879.8			
4105.	5000.	59880.7			
4115.	5000.	59884.4			
4125.	5000.	59888.7			
4135.	5000.	59869.2			
4145.	5000.	59833.1			
4155.	5000.	59752.4			
4165.	5000.	59698.9			
4175.	5000.	59625.4			
4185.	5000.	59549.2			
4195.	5000.	59496.6			
			4205.	5000.	59465.7
			4215.	5000.	59417.8
			4225.	5000.	59397.4
			4235.	5000.	59373.2
			4245.	5000.	59350.6
			4255.	5000.	59348.1
			4265.	5000.	59336.4
			4275.	5000.	59330.8
			4285.	5000.	59331.6
			4295.	5000.	59342.7
			4305.	5000.	59360.2
			4315.	5000.	59364.1
			4325.	5000.	59380.7
			4335.	5000.	59399.5
			4345.	5000.	59419.6
			4355.	5000.	59417.0
			4365.	5000.	59457.2
			4375.	5000.	59467.2
			4385.	5000.	59484.6
			4395.	5000.	59476.4
			4405.	5000.	59474.5
			4415.	5000.	59475.3
			4425.	5000.	59459.2
			4435.	5000.	59436.0
			4445.	5000.	59404.1
			4455.	5000.	59382.8
			4465.	5000.	59357.6
			4475.	5000.	59340.3
			4485.	5000.	59318.7
			4495.	5000.	59300.2
			4505.	5000.	59284.6
			4530.	5000.	59258.3
			4555.	5000.	59244.0
			4580.	5000.	59239.0
			4605.	5000.	59240.6
			4630.	5000.	59239.2
			4655.	5000.	59243.1
			4680.	5000.	59246.1
			4705.	5000.	59252.6
			4730.	5000.	59248.3
			4755.	5000.	59251.9
			4780.	5000.	59257.4
			4805.	5000.	59258.3
			4830.	5000.	59261.0
			4855.	5000.	59273.0
			4880.	5000.	59273.9
			4905.	5000.	59283.8

PROJECT NO. CUMMINS LOCATION \_\_\_\_\_PROFILE NO. 5, "Brookvale" ORIENTATION W → EOPERATOR N. Blake DATE 23/8/85PROFILE/REF. COORDINATES "5000" Page 1

BASE STATION NOS. (Start) \_\_\_\_\_

BASE STATION NOS. (Finish) \_\_\_\_\_

## TRAVERSE DETAILS:-

COORDINATE	STATION NO.	SPACING	LANDMARK
1000	723	25m	Brookvale sign
	731	"	end of regulatory verge
	735	"	large tree
	744	"	Fence 1-; Nth, Red fire plug
	767	"	Culvert/drainage Sth side
	770	"	Torch intersection, Fence 1-S, E&WS Post.
	780	"	E&WS service Post.
	782	"	Across, gate, telephone marker.
	787	"	Telephone O'head.
	794	"	Deep gutters to road S&N sides
	812	"	Yellow E&WS, service N, Torch S
	818	"	Across 2, Kill creek.
	820	"	" 2
	828	"	between Yellow E&WS, Nth. Side
3775	834	10m.	

REMARKS: \_\_\_\_\_

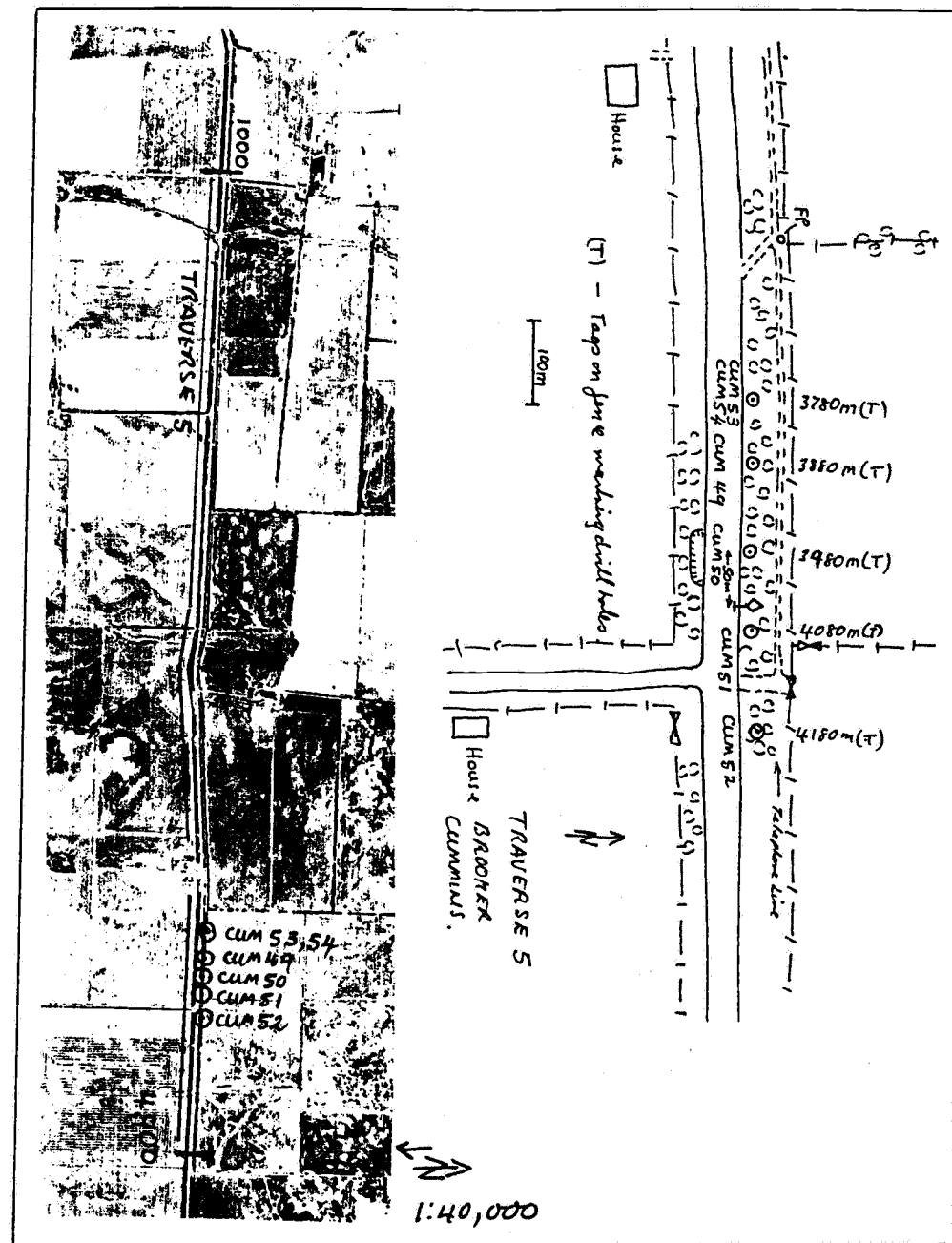
Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;

\*NB: Landmarks, Sth. Nos., Distances, orientation, scale, peak values etc..

See Page 2

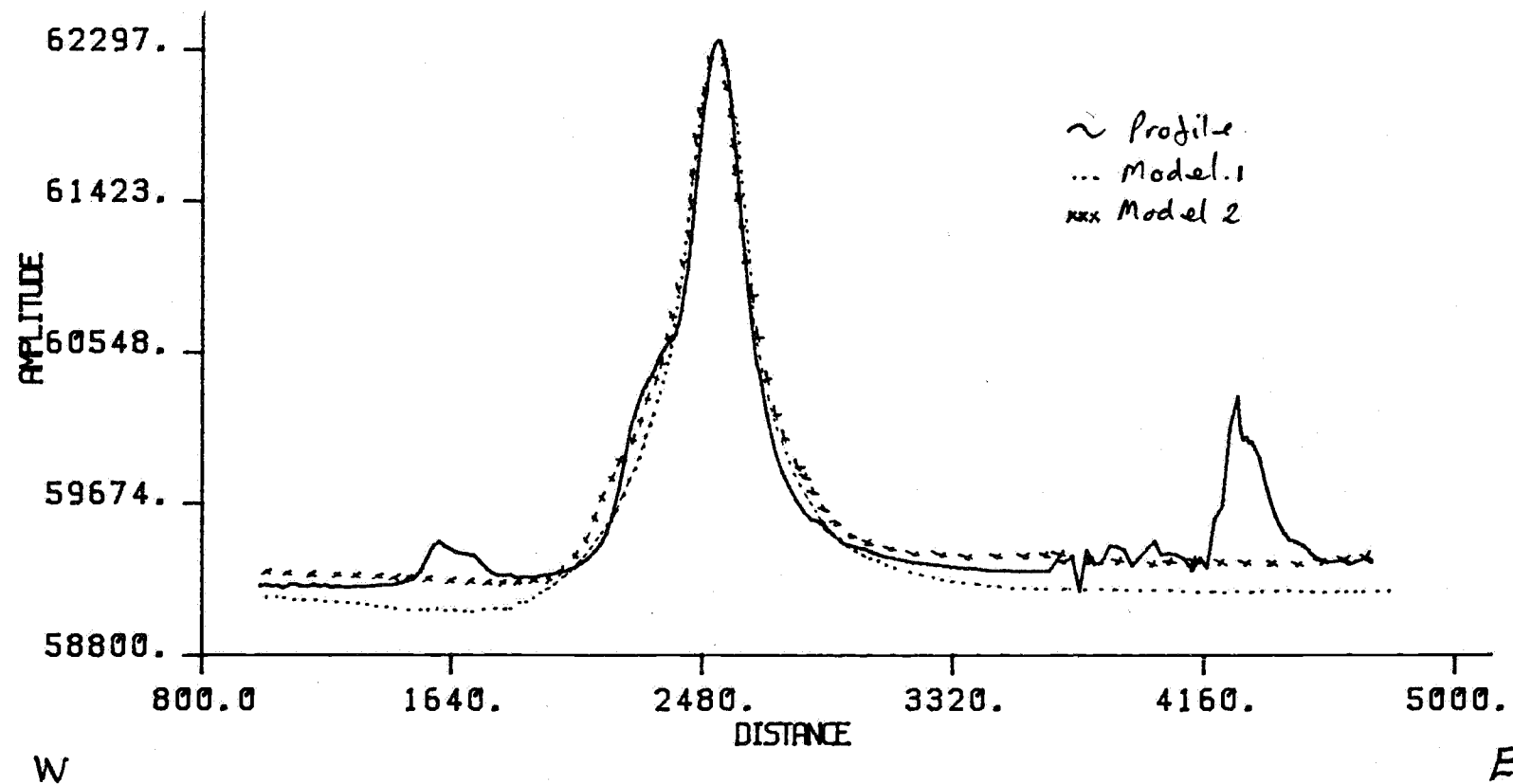
[illegible]

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.PA7;



\*NB:Landmarks, Stn. Nos., Distances, orientation, scale,  
peak values etc..

# BROOKER - CUMMINS - TRAVERSE NO. 6

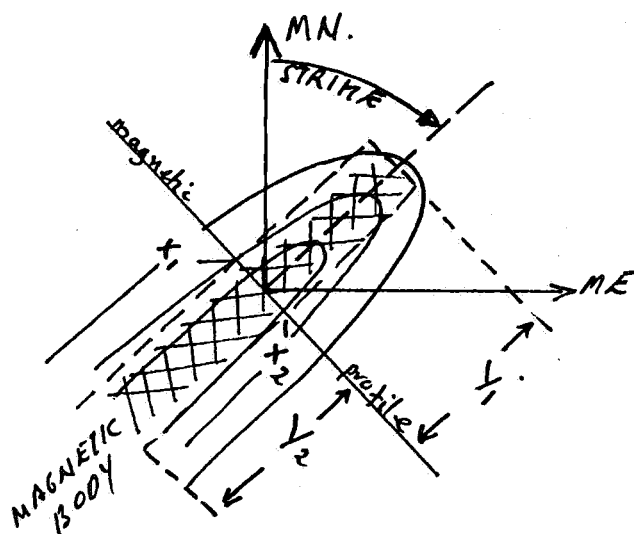
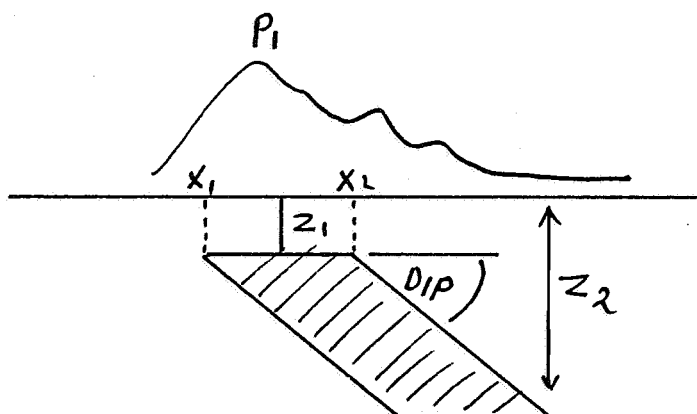


MODEL PARAMETERS.

083

PROFILE NO: 6 LOCATION: BROOKER - CUMMINS

	..... Model 1		xxxx Model 2		
ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	2250	2485	2250	2485	
X <sub>2</sub>	2500	2540	2500	2540	
Y <sub>1</sub> strike	-500	-500	-500	-500	
Y <sub>2</sub>	+500	+500	+500	+500	
Z <sub>1</sub> Depth	300	120	250	60	
Z <sub>2</sub> Thich	1500	300	1000	500	
Sucept.	0.03	0.07	0.025	0.026	
Dip.	85°	90°	85°	85°	
STRIKE	15°	15°	15°	15°	



## BROOKER - CUMMINS

## TRAVERSE 6

P1.

1000.	6000.	59206.0
1020.	6000.	59210.0
1040.	6000.	59202.0
1060.	6000.	59204.0
1080.	6000.	59194.0
1100.	6000.	59214.0
1120.	6000.	59211.0
1140.	6000.	59199.0
1160.	6000.	59200.0
1180.	6000.	59211.0
1200.	6000.	59199.0
1220.	6000.	59210.0
1240.	6000.	59198.0
1260.	6000.	59202.0
1280.	6000.	59198.0
1300.	6000.	59198.0
1320.	6000.	59199.0
1340.	6000.	59200.0
1360.	6000.	59202.0
1380.	6000.	59205.0
1400.	6000.	59208.0
1420.	6000.	59208.0
1440.	6000.	59207.0
1460.	6000.	59218.0
1480.	6000.	59227.0
1500.	6000.	59236.0
1520.	6000.	59254.0
1540.	6000.	59295.0
1560.	6000.	59361.0
1580.	6000.	59433.0
1600.	6000.	59457.0
1620.	6000.	59432.0
1640.	6000.	59413.0
1660.	6000.	59396.0
1680.	6000.	59390.0
1700.	6000.	59382.0
1720.	6000.	59374.0
1740.	6000.	59336.0
1760.	6000.	59299.0
1780.	6000.	59276.0
1800.	6000.	59261.0
1820.	6000.	59263.0
1840.	6000.	59269.0
1860.	6000.	59251.0
1880.	6000.	59254.0
1900.	6000.	59253.0
1920.	6000.	59253.0
1940.	6000.	59264.0
1960.	6000.	59268.0
1980.	6000.	59273.0
2000.	6000.	59283.0
2020.	6000.	59290.0
2040.	6000.	59300.0
2060.	6000.	59313.0
2080.	6000.	59337.0
2100.	6000.	59365.0

2120.	6000.	59401.0
2140.	6000.	59445.0
2160.	6000.	59512.0
2180.	6000.	59608.0
2200.	6000.	59762.0
2220.	6000.	59932.0
2240.	6000.	60116.0
2250.	6000.	60179.0
2260.	6000.	60232.0
2270.	6000.	60283.0
2280.	6000.	60324.0
2290.	6000.	60365.0
2300.	6000.	60396.0
2310.	6000.	60422.0
2320.	6000.	60458.0
2330.	6000.	60501.0
2340.	6000.	60538.0
2350.	6000.	60563.0
2360.	6000.	60592.0
2370.	6000.	60609.0
2380.	6000.	60631.0
2390.	6000.	60663.0
2400.	6000.	60715.0
2410.	6000.	60799.0
2420.	6000.	60907.0
2430.	6000.	61035.0
2440.	6000.	61192.0
2450.	6000.	61370.0
2460.	6000.	61556.0
2470.	6000.	61714.0
2480.	6000.	61895.0
2490.	6000.	62051.0
2500.	6000.	62185.0
2510.	6000.	62279.0
2520.	6000.	62335.0
2530.	6000.	62352.0
2540.	6000.	62329.0
2550.	6000.	62269.0
2560.	6000.	62166.0
2570.	6000.	62036.0
2580.	6000.	61873.0
2590.	6000.	61688.0
2600.	6000.	61498.0
2610.	6000.	61288.0
2620.	6000.	61094.0



## BROOKER - CUMMINS

## TRAVERSE 6

P2 .

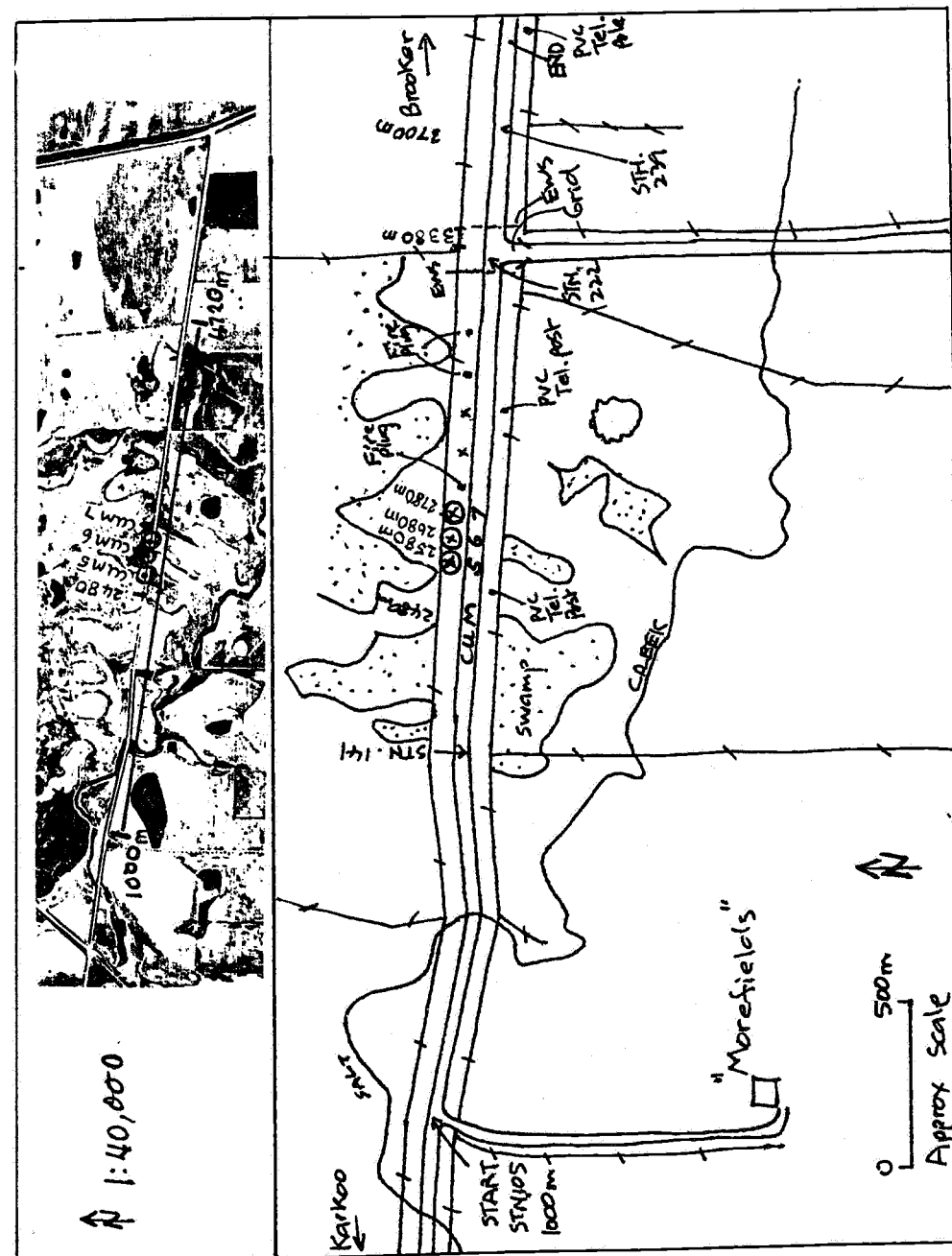
2630.	6000.	60921.0
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2650.	6000.	60621.0
2660.	6000.	60486.0
2670.	6000.	60434.0
2695.	6000.	60181.0
2720.	6000.	59994.0
2745.	6000.	59856.0
2770.	6000.	59766.0
2795.	6000.	59692.0
2820.	6000.	59627.0
2845.	6000.	59584.0
2870.	6000.	59570.0
2895.	6000.	59527.0
2920.	6000.	59496.0
2945.	6000.	59459.0
2970.	6000.	59439.0
2995.	6000.	59426.0
3020.	6000.	59419.0
3045.	6000.	59400.0
3070.	6000.	59384.0
3095.	6000.	59372.0
3120.	6000.	59363.0
3145.	6000.	59353.0
3170.	6000.	59344.0
3195.	6000.	59339.0
3220.	6000.	59334.0
3245.	6000.	59328.0
3270.	6000.	59323.0
3295.	6000.	59316.0
3320.	6000.	59313.0
3345.	6000.	59308.0
3370.	6000.	59303.0
3395.	6000.	59303.0
3445.	6000.	59291.0
3495.	6000.	59291.0
3545.	6000.	59286.0
3595.	6000.	59289.0
3645.	6000.	59286.0
3670.	6000.	59356.0
3695.	6000.	59336.0
3720.	6000.	59377.0
3745.	6000.	59171.0
3770.	6000.	59411.0
3795.	6000.	59325.0
3820.	6000.	59335.0
3845.	6000.	59433.0

3870.	6000.	59429.0
3895.	6000.	59410.0
3920.	6000.	59318.0
3945.	6000.	59364.0
3970.	6000.	59418.0
3995.	6000.	59457.0
4020.	6000.	59380.0
4045.	6000.	59387.0
4070.	6000.	59381.0
4095.	6000.	59356.0
4120.	6000.	59289.0
4145.	6000.	59362.0
4170.	6000.	59304.0
4195.	6000.	59586.0
4220.	6000.	59663.0
4245.	6000.	60104.0
4270.	6000.	60297.0
4280.	6000.	60105.0
4290.	6000.	60044.0
4300.	6000.	60060.0
4310.	6000.	60027.0
4320.	6000.	60028.0
4345.	6000.	59934.0
4370.	6000.	59761.0
4395.	6000.	59612.0
4420.	6000.	59522.0
4445.	6000.	59469.0
4470.	6000.	59451.0
4495.	6000.	59429.0
4520.	6000.	59379.0
4545.	6000.	59355.0
4570.	6000.	59339.0
4595.	6000.	59343.0
4620.	6000.	59345.0
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4670.	6000.	59342.0
4695.	6000.	59360.0
4720.	6000.	59338.0

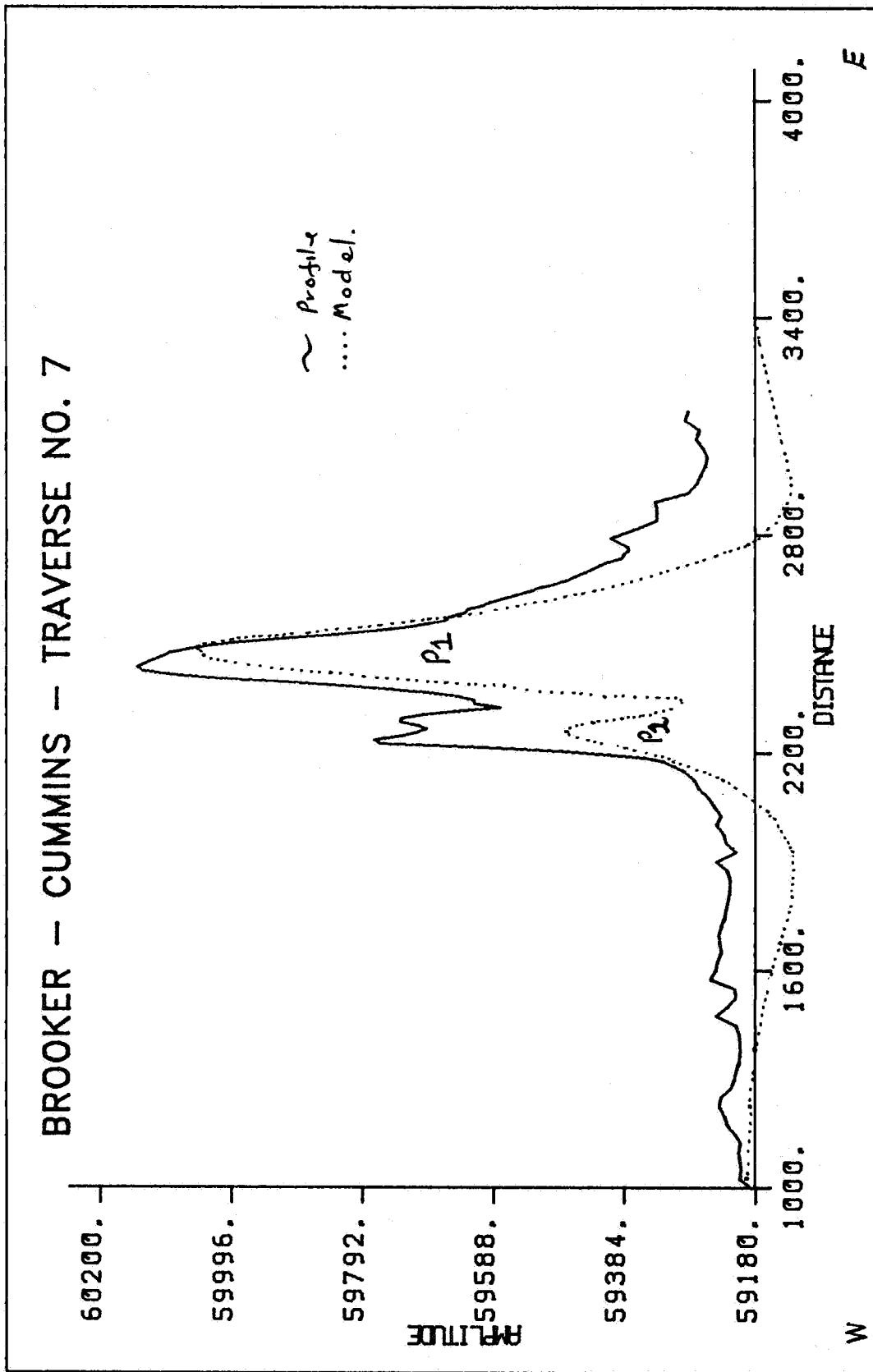
PROJECT NO. 5428 LOCATION BROOKER (Morefields)PROFILE NO. 6 ORIENTATION W → EOPERATOR T. JUST DATE 16/3/85PROFILE/REF. COORDINATES "6000"BASE STATION NOS. (Start) 102, 103, 104 START STN. 105BASE STATION NOS. (Finish) 245, 246, 247 FIN STN 244

## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
1000 m	105	25m	START OPP "Morefields" sign
1500 m	125	"	Creek crossing Fences $\frac{1}{2}$ to Nth & SW
	128	"	Fire Plug Nth side Telecom post sth side
1825	138	"	EWS crosses road.
1900	141	"	
2375	160	"	5m west of fire plug
2575	168	10m	10m Spcg. from 168 on.
2735	184	"	Opp. PVC Telecom Box
2995	210	"	Opp. Fire plug. Nth side.
3000	211	25m	25m Spcg. from 211 on.
3125	216	"	5m west of fire plug.
3275	222	"	Opp. East. Gate post at Grid
3700	239	50m	Fence $\frac{1}{2}$ sth + Telecom sign
		"	50m Spcg from 239 on.
2950	244	"	END 15m west of PVC Tel. pole

REMARKS: PEAK (MAX) at 2880 mCUM 5, 6, 7 - tags on Fence Nth side.Cassette/Disk No.: \_\_\_\_\_ VAX File: CLIMMINS.DAT;

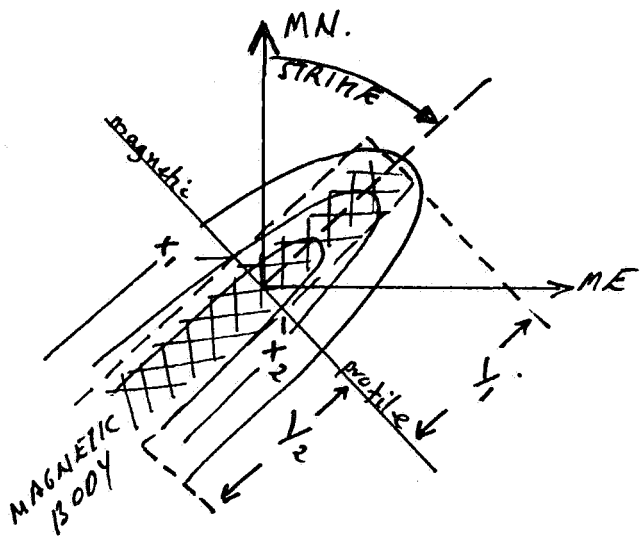
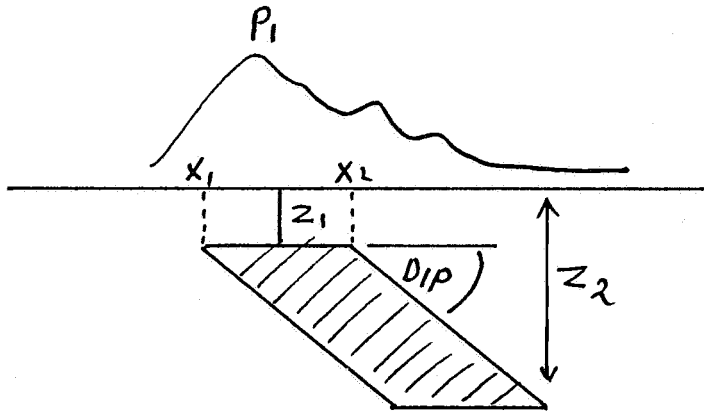
\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc.,



MODEL PARAMETERS.

PROFILE NO: 7 LOCATION: BROOKER - CLIMMINIS.

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	2320	2250			
X <sub>2</sub>	2500	2330			
Y <sub>1</sub> strike	-1000	-1000			
Y <sub>2</sub>	+1000	+1000			
Z <sub>1</sub> Depth	45	50			
Z <sub>2</sub> Thich	300	300			
Sucept.	0.008	0.008			
Dip.	40°	140°			
STRIKE	5°	5°			



## BROOKER - CUMMINS - TRAVERSE 7.

1000.	7000.	59188.3	2305.	7000.	59696.9
1025.	7000.	59205.8	2315.	7000.	59646.4
1050.	7000.	59203.6	2325.	7000.	59577.0
1075.	7000.	59205.7	2335.	7000.	59616.9
1100.	7000.	59207.2	2345.	7000.	59620.2
1125.	7000.	59204.7	2355.	7000.	59641.9
1150.	7000.	59212.8	2365.	7000.	59691.8
1175.	7000.	59225.4	2375.	7000.	59748.5
1200.	7000.	59229.6	2385.	7000.	59822.6
1225.	7000.	59237.2	2395.	7000.	59912.1
1250.	7000.	59235.3	2405.	7000.	60029.7
1275.	7000.	59219.9	2415.	7000.	60096.7
1300.	7000.	59213.9	2425.	7000.	60133.4
1325.	7000.	59211.2	2435.	7000.	60142.5
1350.	7000.	59206.7	2445.	7000.	60130.4
1375.	7000.	59205.2	2455.	7000.	60117.1
1400.	7000.	59205.3	2465.	7000.	60101.4
1425.	7000.	59207.6	2475.	7000.	60090.3
1450.	7000.	59212.6	2485.	7000.	60064.6
1475.	7000.	59243.4	2495.	7000.	60029.2
1500.	7000.	59225.8	2505.	7000.	59979.8
1525.	7000.	59212.6	2515.	7000.	59911.7
1550.	7000.	59213.5	2525.	7000.	59833.2
1575.	7000.	59251.6	2535.	7000.	59773.8
1600.	7000.	59243.0	2545.	7000.	59728.7
1625.	7000.	59240.4	2555.	7000.	59691.4
1650.	7000.	59234.1	2565.	7000.	59661.8
1675.	7000.	59237.3	2575.	7000.	59655.4
1700.	7000.	59238.8	2585.	7000.	59632.5
1725.	7000.	59233.7	2595.	7000.	59626.7
1750.	7000.	59229.0	2605.	7000.	59605.1
1775.	7000.	59225.8	2615.	7000.	59591.9
1800.	7000.	59222.8	2625.	7000.	59570.8
1825.	7000.	59220.6	2635.	7000.	59550.0
1850.	7000.	59221.0	2645.	7000.	59528.9
1875.	7000.	59225.6	2655.	7000.	59511.5
1900.	7000.	59242.1	2665.	7000.	59491.2
1925.	7000.	59211.3	2675.	7000.	59472.4
1950.	7000.	59228.0	2685.	7000.	59460.5
1975.	7000.	59230.4	2695.	7000.	59445.6
2000.	7000.	59242.0	2705.	7000.	59432.3
2025.	7000.	59234.9	2715.	7000.	59421.3
2050.	7000.	59244.9	2725.	7000.	59408.6
2075.	7000.	59253.8	2735.	7000.	59388.3
2100.	7000.	59269.4	2745.	7000.	59384.9
2125.	7000.	59277.4	2755.	7000.	59378.0
2150.	7000.	59293.8	2765.	7000.	59378.4
2175.	7000.	59325.3	2790.	7000.	59406.2
2185.	7000.	59355.6	2815.	7000.	59365.6
2195.	7000.	59411.2	2840.	7000.	59334.1
2205.	7000.	59487.3	2865.	7000.	59333.9
2215.	7000.	59605.4	2890.	7000.	59337.1
2225.	7000.	59764.3	2915.	7000.	59285.8
2235.	7000.	59773.1	2940.	7000.	59272.4
2245.	7000.	59733.8	2965.	7000.	59265.5
2255.	7000.	59710.0	2990.	7000.	59259.2
2265.	7000.	59692.5	3015.	7000.	59255.5
2275.	7000.	59704.8	3040.	7000.	59264.0
2285.	7000.	59733.7	3065.	7000.	59273.2
2295.	7000.	59731.0	3090.	7000.	59268.5
			3115.	7000.	59290.7
			3140.	7000.	59285.7

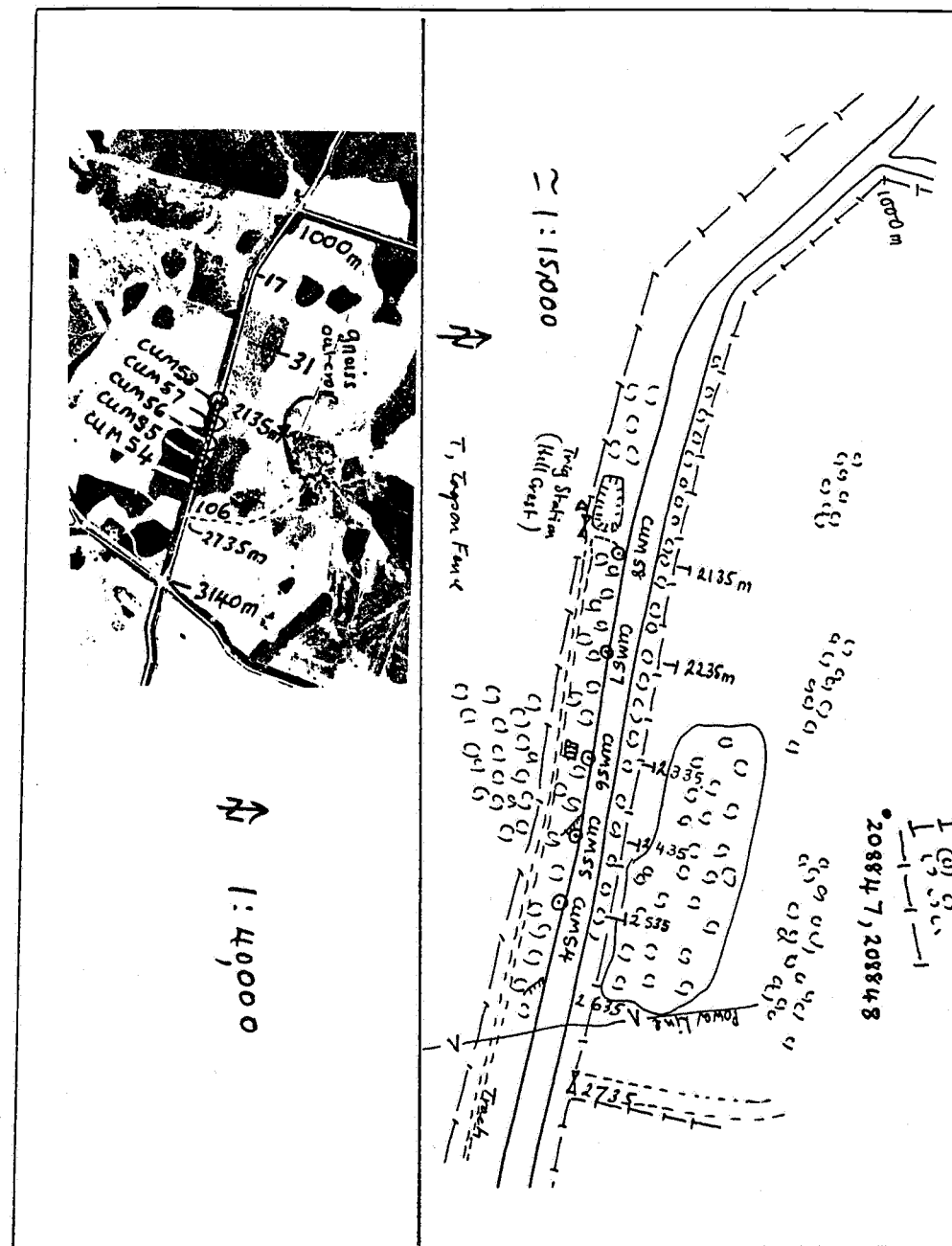
PROJECT NO. CUMMINS LOCATION BROOKER  
 PROFILE NO. 7, Mt Isabella ORIENTATION W → E  
 OPERATOR N. Blake DATE 24/8/86  
 PROFILE/REF. COORDINATES "7000"  
 BASE STATION NOS. (Start) \_\_\_\_\_

BASE STATION NOS. (Finish) \_\_\_\_\_

TRAVERSE DETAILS:-			
COORDINATE	STATION NO	SPACING	LANDMARK
1000	0	25m	Track access to north.
	17	"	around bend
	18	"	Butter on S side
	25	"	" S & N sides
	31	"	Access to N <sup>th</sup> ; quarry, Westward.
	40	"	Butter, S side
	44	"	Geat.
2175	47	10m	
	55	"	Trees in paddocks to south.
	70	"	Drainage ditch
	95	"	" " , cleared ramp N <sup>th</sup> .
	103	"	Power line over head.
2765	106	25m.	"Mt Isabella" access.
3140	121	"	EOT. Intersection, Fire hose.
			and tank.

REMARKS: \_\_\_\_\_

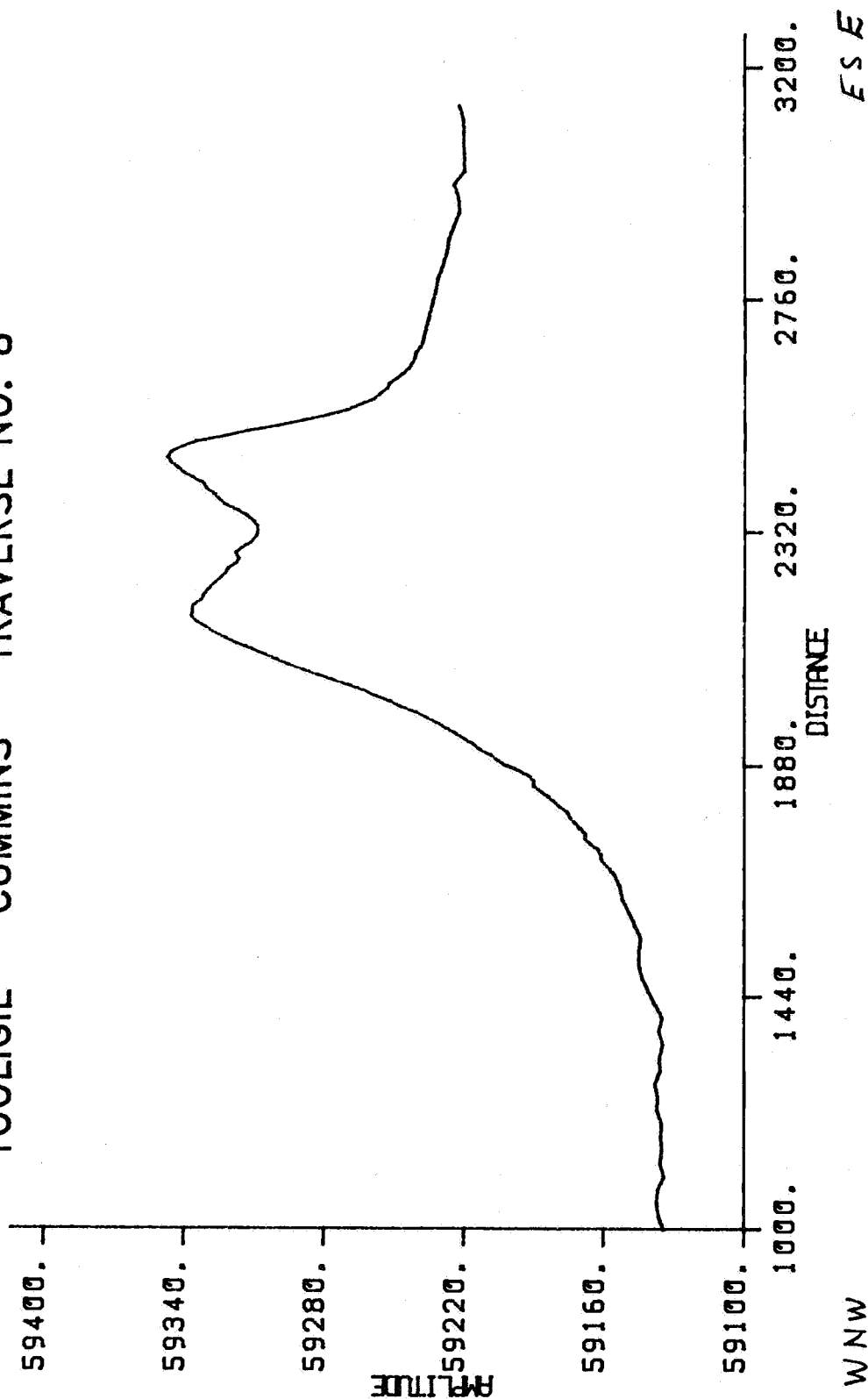
Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT.



\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc..



TOOLIGIE - CUMMINS - TRAVERSE NO. 8



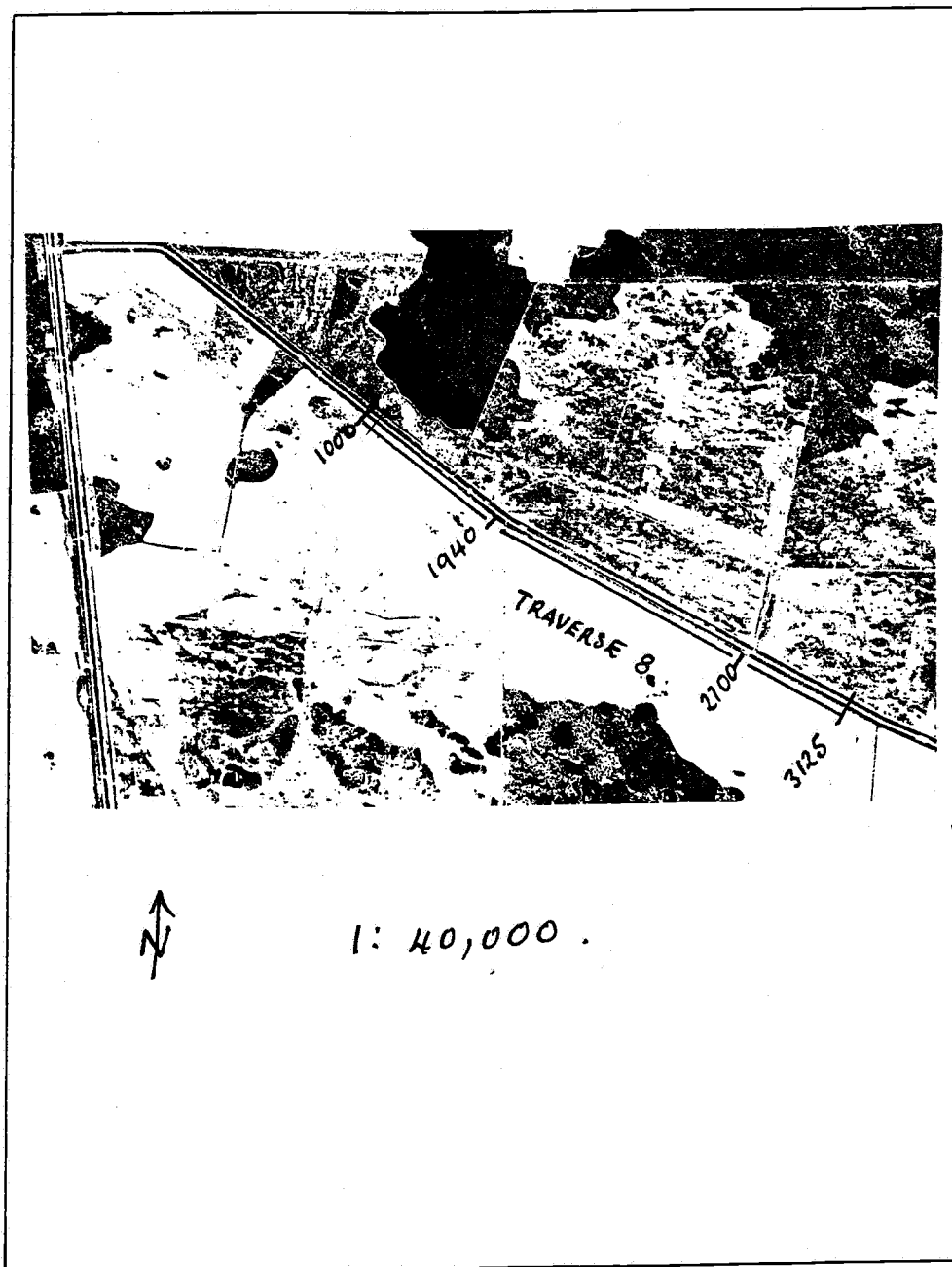


PROJECT NO. CUMMINS. LOCATION TOOLIGIE.PROFILE NO. 8, Coomaba ORIENTATION NW-SEOPERATOR N. Blake DATE 18/1/85PROFILE/REF. COORDINATES "8000"BASE STATION NOS. (Start) 704 11.28 Hrs. (EOT) AMBASE STATION NOS. (Finish) 849 12.39 Hrs. (EOT) PM.

## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
1000	705	25 m	pegged, N side of road
1700	732	10 m	
1940	756	"	bend in road,
1980	760	"	acrostach, S, fence + join
2060	768	"	quarry, N, west end, SW of etc
2090	771	"	quarry, N, East end
2700	832	25m	
3125	849	"	EOT

REMARKS: The rule of Thumbs estimates of depth to  
surface indicated a deep body. Modelling  
was not therefore attempted.

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS:DAT.

\*NB: Landmarks, Sln. Nos., Distances, orientation, scale,  
 peak values etc.,

## TOOLIGIE - CUMMINS - TRAVERSE NOS P2.

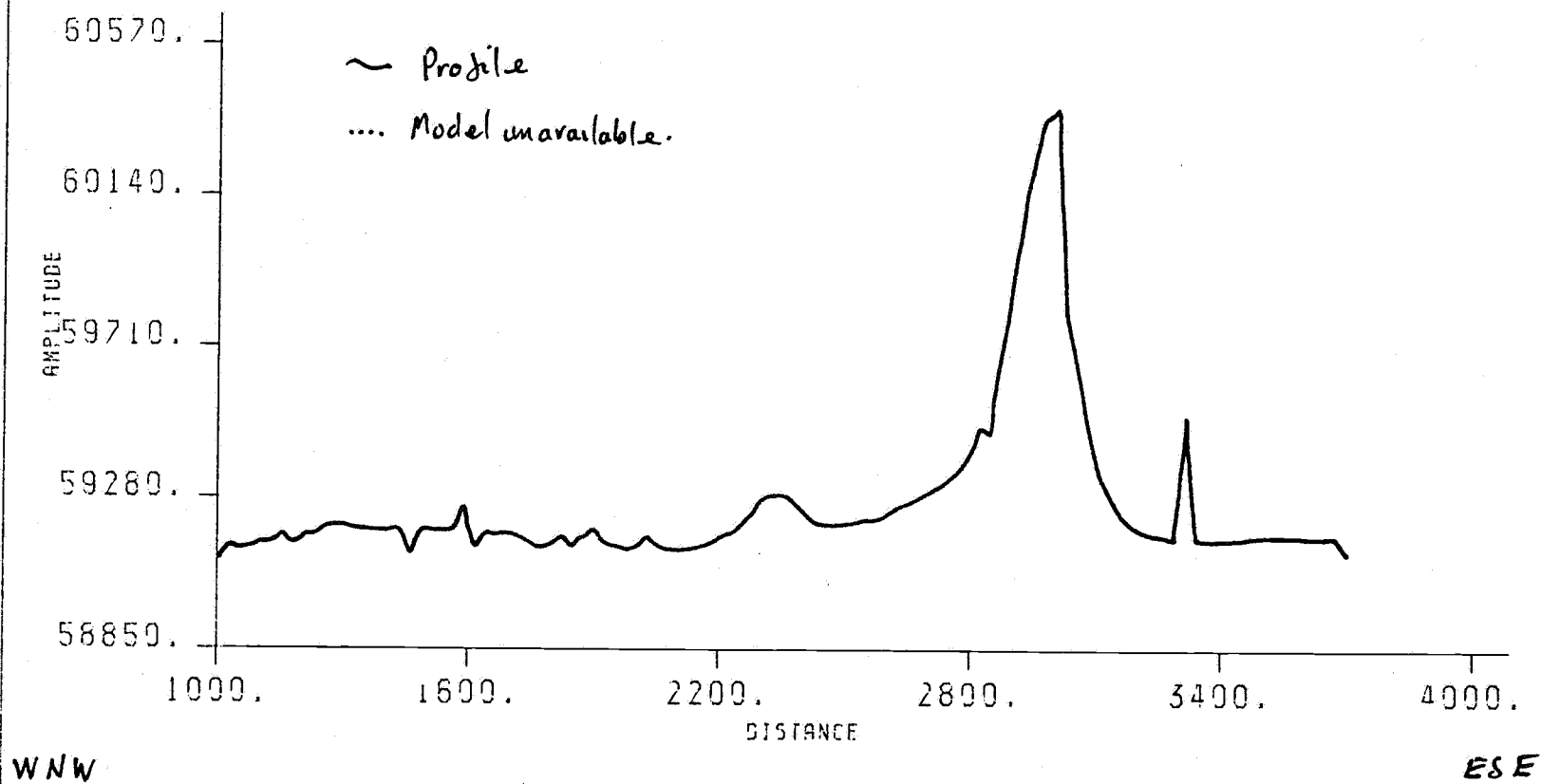
2610.	8000.	59248.8
2620.	8000.	59246.1
2630.	8000.	59243.6
2640.	8000.	59242.2
2650.	8000.	59241.3
2660.	8000.	59240.7
2670.	8000.	59238.8
2680.	8000.	59238.0
2690.	8000.	59237.3
2700.	8000.	59236.9
2725.	8000.	59235.3
2750.	8000.	59233.9
2775.	8000.	59232.6
2800.	8000.	59231.3
2825.	8000.	59229.4
2850.	8000.	59227.5
2875.	8000.	59226.9
2900.	8000.	59224.6
2925.	8000.	59222.1
2950.	8000.	59222.9
2975.	8000.	59224.9
3000.	8000.	59220.3
3025.	8000.	59220.1
3050.	8000.	59220.5
3075.	8000.	59220.6
3100.	8000.	59220.7
3125.	8000.	59222.6

## 700161E - CUMMINS - TRAVERSE NO 8

P1

1000.	8000.	59134.5	2010.	8000.	59257.9
1025.	8000.	59136.7	2020.	8000.	59262.8
1050.	8000.	59137.4	2030.	8000.	59269.2
1075.	8000.	59136.8	2040.	8000.	59276.2
1100.	8000.	59134.4	2050.	8000.	59282.0
1125.	8000.	59136.1	2060.	8000.	59288.5
1150.	8000.	59135.2	2070.	8000.	59295.1
1175.	8000.	59135.7	2080.	8000.	59300.6
1200.	8000.	59135.6	2090.	8000.	59305.8
1225.	8000.	59137.4	2100.	8000.	59311.4
1250.	8000.	59137.1	2110.	8000.	59317.6
1275.	8000.	59138.5	2120.	8000.	59322.4
1300.	8000.	59136.0	2130.	8000.	59327.3
1325.	8000.	59136.4	2140.	8000.	59330.6
1350.	8000.	59134.9	2150.	8000.	59334.5
1375.	8000.	59136.7	2160.	8000.	59337.0
1400.	8000.	59135.1	2170.	8000.	59336.2
1425.	8000.	59138.3	2180.	8000.	59336.2
1450.	8000.	59141.3	2190.	8000.	59332.7
1475.	8000.	59143.8	2200.	8000.	59331.4
1500.	8000.	59145.3	2210.	8000.	59329.6
1525.	8000.	59145.2	2220.	8000.	59327.2
1550.	8000.	59144.3	2230.	8000.	59324.6
1575.	8000.	59147.0	2240.	8000.	59322.4
1600.	8000.	59149.5	2250.	8000.	59321.1
1625.	8000.	59152.4	2260.	8000.	59317.5
1650.	8000.	59153.5	2270.	8000.	59316.4
1675.	8000.	59156.4	2280.	8000.	59317.7
1700.	8000.	59161.5	2290.	8000.	59314.6
1710.	8000.	59161.6	2300.	8000.	59310.9
1720.	8000.	59163.1	2310.	8000.	59308.5
1730.	8000.	59166.2	2320.	8000.	59308.1
1740.	8000.	59168.6	2330.	8000.	59308.0
1750.	8000.	59168.1	2340.	8000.	59310.3
1760.	8000.	59171.0	2350.	8000.	59313.3
1770.	8000.	59172.7	2360.	8000.	59317.1
1780.	8000.	59175.0	2370.	8000.	59322.2
1790.	8000.	59175.9	2380.	8000.	59324.9
1800.	8000.	59179.3	2390.	8000.	59327.3
1810.	8000.	59181.7	2400.	8000.	59330.2
1820.	8000.	59184.3	2410.	8000.	59331.7
1830.	8000.	59187.6	2420.	8000.	59336.0
1840.	8000.	59190.4	2430.	8000.	59340.0
1850.	8000.	59190.1	2440.	8000.	59342.7
1860.	8000.	59192.4	2450.	8000.	59345.5
1870.	8000.	59196.8	2460.	8000.	59347.2
1880.	8000.	59202.5	2470.	8000.	59345.5
1890.	8000.	59206.2	2480.	8000.	59340.9
1900.	8000.	59208.8	2490.	8000.	59334.7
1910.	8000.	59213.5	2500.	8000.	59322.6
1920.	8000.	59216.3	2510.	8000.	59312.5
1930.	8000.	59220.2	2520.	8000.	59299.8
1940.	8000.	59223.9	2530.	8000.	59288.9
1950.	8000.	59227.8	2540.	8000.	59278.6
1960.	8000.	59231.6	2550.	8000.	59269.9
1970.	8000.	59236.4	2560.	8000.	59264.9
1980.	8000.	59240.9	2570.	8000.	59258.8
1990.	8000.	59247.4	2580.	8000.	59256.2
2000.	8000.	59251.8	2590.	8000.	59253.0
			2600.	8000.	59252.2

# TOOLIGIE - CUMMINS - TRAVERSE NO. 23

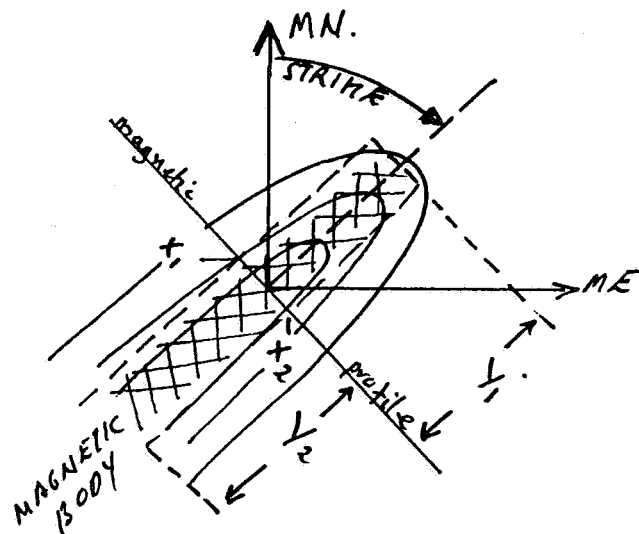
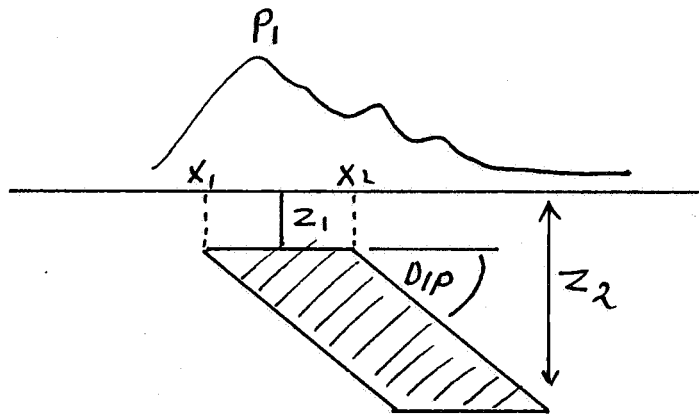


MODEL PARAMETERS.

097

PROFILE NO: 23 LOCATION: TOOLIGIE-CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	2925				
X <sub>2</sub>	3150				
Y <sub>1</sub> strike	—				
Y <sub>2</sub>	—				
Z <sub>1</sub> Depth	60				
Z <sub>2</sub> Thich	—				
Sucept.	0.009				
Dip.	—				
STRIKE	—				



PROJECT NO. CUMMINS LOCATION TOOLIGIE  
 PROFILE NO. 23, TOOLIGIE ORIENTATION NW → SE  
 OPERATOR T. JUST DATE 15/4/85  
 PROFILE/REF. COORDINATES \_\_\_\_\_

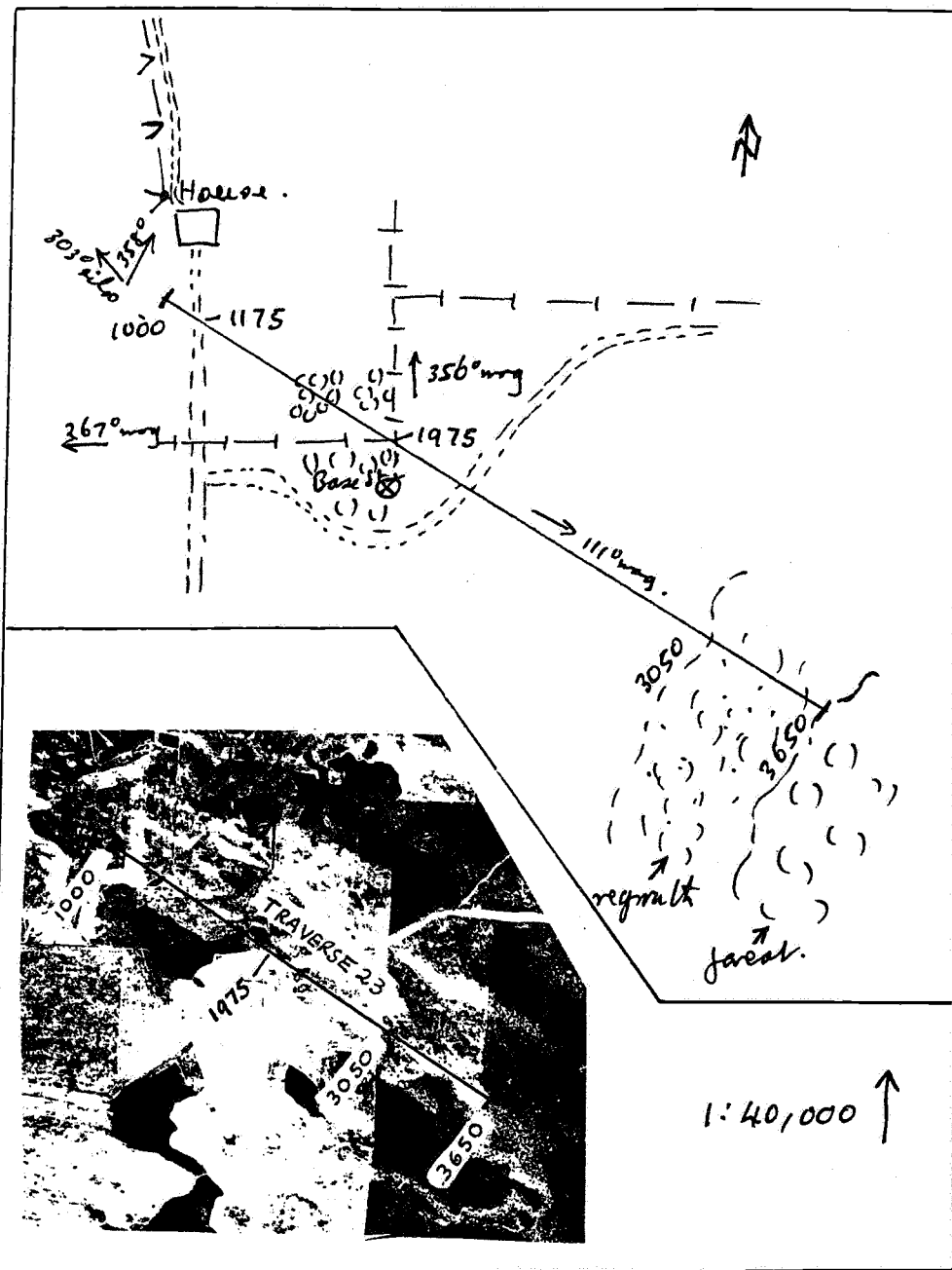
BASE STATION NOS. (Start) 0, 1, 2

BASE STATION NOS. (Finish) \_\_\_\_\_

TRAVERSE DETAILS:-			
COORDINATE	STATION NO.	SPACING	LANDMARK
1000	3	25	59088.2 Farm house 358° mag;
			power pole / Tooligie file 303° mag.
1100	7	"	59142.5
1175		"	Farm house track.
1200	"	"	Small patch of trees 59144.3
1300	15	"	59187.8, pile of rocks.
1400	19	"	59174.5
1500	23	"	59177.6
1550		"	10m NH, pile of small roots.
1700	31	"	59162.0
1750		"	Tree line, edge of paddock.
1768		"	Flogged tree
1860	35	"	59123.4, Tree line (E side)
1900	39	"	100m W of paddock corner.
1975		"	In corner of paddock.

REMARKS: Very open country, freshly cleared for most of traverse  
Computing diff. values resulted modelling profile failure and loss of original data.

Cassette/Disk No.: \_\_\_\_\_ VAX File: \_\_\_\_\_



\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc.,

PROJECT NO. CUMMINS LOCATION 700161EPROFILE NO. 23, 700161E ORIENTATION \_\_\_\_\_OPERATOR T. JUST. DATE \_\_\_\_\_PROFILE/REF. COORDINATES (see before)

BASE STATION NOS. (Start) \_\_\_\_\_

BASE STATION NOS. (Finish) \_\_\_\_\_

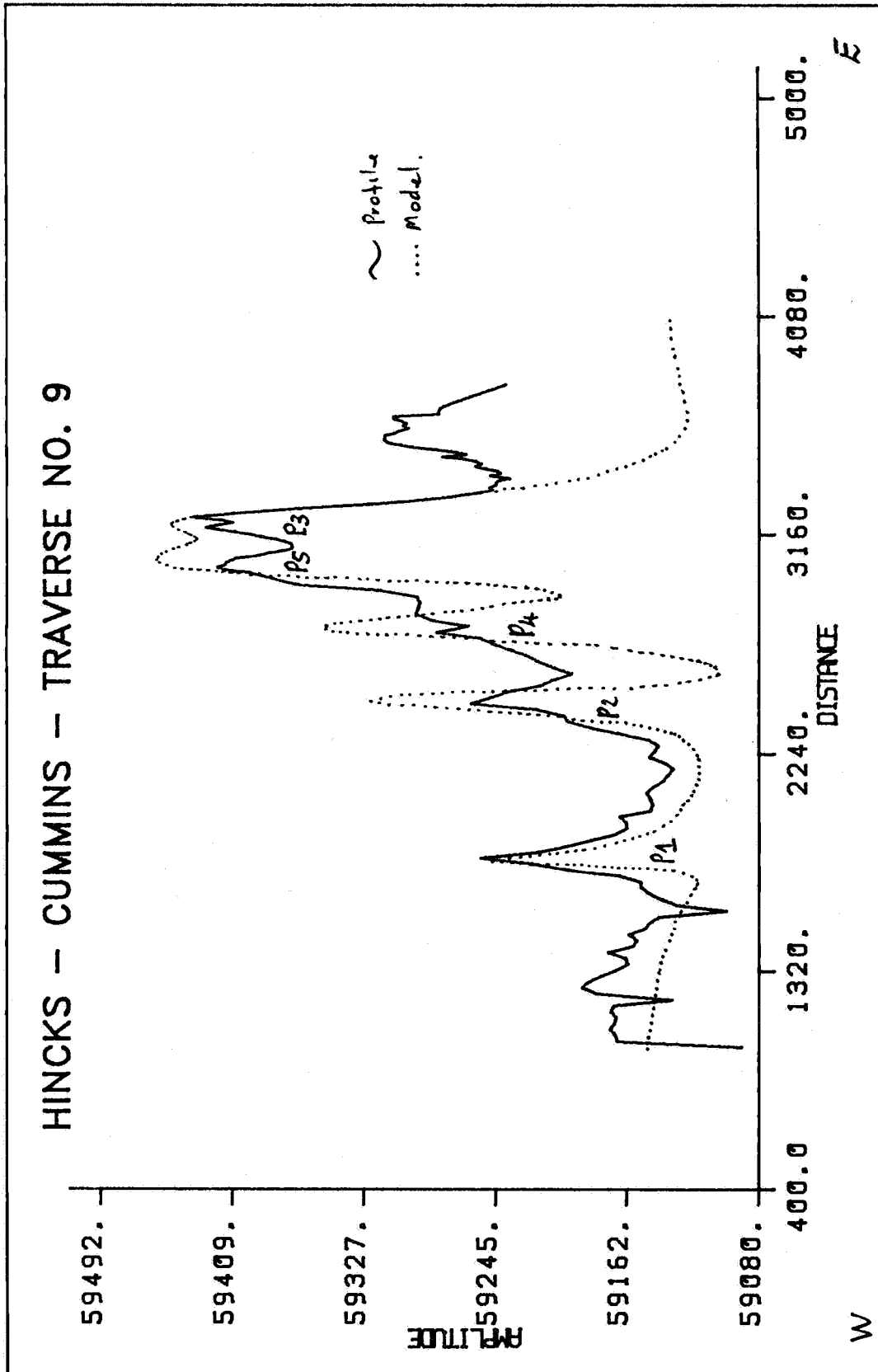
## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
2000	43	25	59122.1
2160	47		59123.0
2200	51		59142.6
2300	55		59234.0
2400	59		59247.6
2500	63		59188.8
2600	67		59209.9
2700	71		59265.6
2800	75		59383.6
2900	79		59835.4
3000	83		60316.0 (50m from "tree" line)
3100	87		59327.5 (orchard regrowth)
3300	95		59148.6
3400	99		59150.5
3500	103		59154.3

REMARKS: 3650 109 59156.6 - at large tree on EOT  
(primary waller forest edge)

Cassette/Disk No.: \_\_\_\_\_ VAX File: \_\_\_\_\_

\*NB: Landmarks, Stn. Nos., Distances, orientation, scale,  
peak values etc..



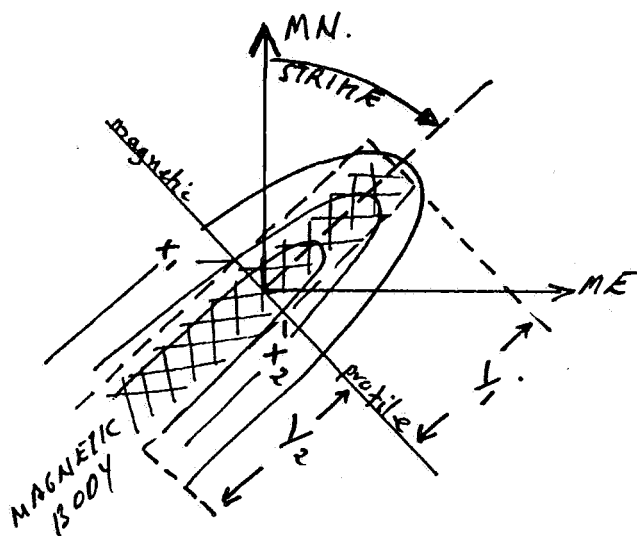
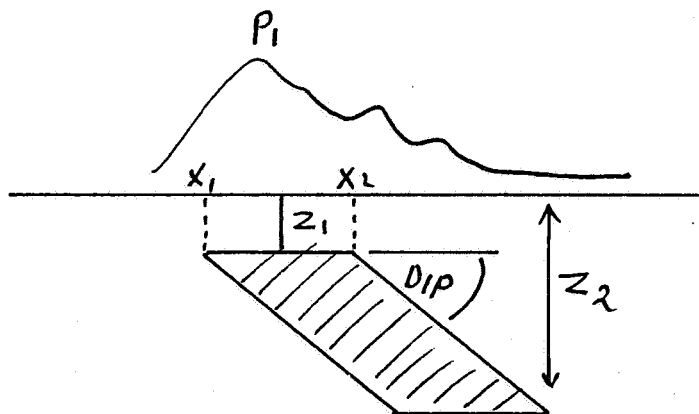


MODEL PARAMETERS.

101

PROFILE NO: 9 LOCATION: HINCUS-CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1750	2420	3175	2750	2950
X <sub>2</sub>	1775	2500	3250	2850	3100
Y <sub>1</sub> strike	-1000	-1000	-1000	-1000	-1000
Y <sub>2</sub>	1000	1000	1000	1000	1000
Z <sub>1</sub> Depth	25	40	90	80	100
Z <sub>2</sub> Thick	500	500	500	300	500
Sucept.	0.002	0.002	0.004	0.004	0.004
Dip.	50°	110°	70°	120°	70°
STRIKE	5°	5°	5°	5°	5°

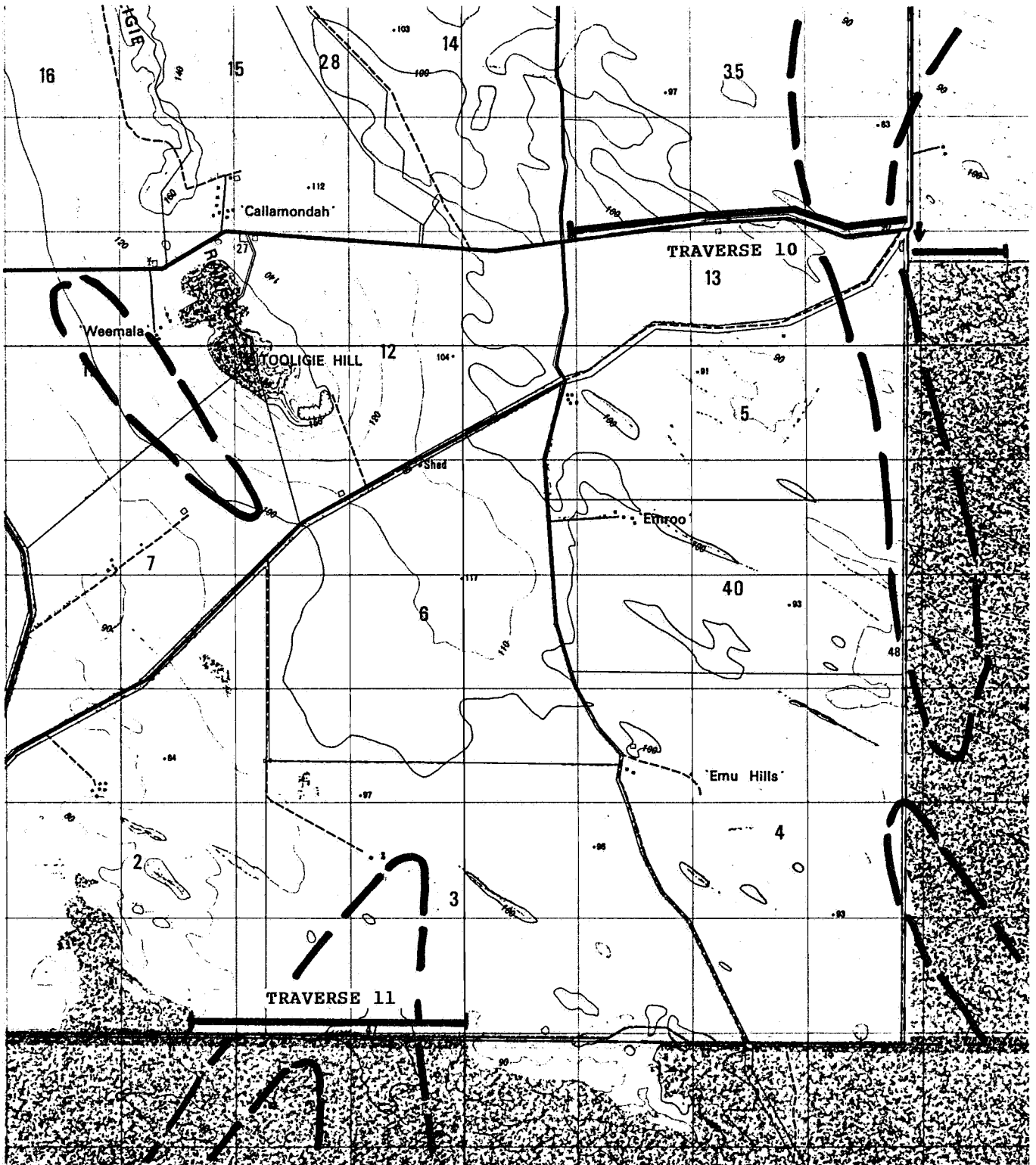


1000.	9000.	59091.6	2525.	9000.	59216.2
1025.	9000.	59168.5	2550.	9000.	59208.2
1050.	9000.	59169.7	2575.	9000.	59196.8
1075.	9000.	59172.7	2600.	9000.	59207.7
1100.	9000.	59170.0	2625.	9000.	59217.9
1125.	9000.	59168.9	2650.	9000.	59224.0
1150.	9000.	59172.3	2675.	9000.	59235.2
1175.	9000.	59170.5	2700.	9000.	59245.2
1200.	9000.	59134.1	2725.	9000.	59254.3
1225.	9000.	59181.3	2750.	9000.	59281.3
1250.	9000.	59190.5	2775.	9000.	59261.4
1275.	9000.	59185.9	2800.	9000.	59283.6
1300.	9000.	59178.0	2825.	9000.	59294.3
1325.	9000.	59168.2	2850.	9000.	59292.7
1350.	9000.	59161.5	2875.	9000.	59291.5
1375.	9000.	59163.1	2900.	9000.	59293.8
1400.	9000.	59174.2	2925.	9000.	59317.2
1425.	9000.	59158.3	2950.	9000.	59369.4
1450.	9000.	59155.7	2975.	9000.	59384.8
1475.	9000.	59161.1	3000.	9000.	59398.6
1500.	9000.	59151.2	3010.	9000.	59413.2
1525.	9000.	59147.4	3020.	9000.	59418.9
1550.	9000.	59142.1	3030.	9000.	59413.5
1575.	9000.	59100.4	3040.	9000.	59412.9
1600.	9000.	59131.0	3050.	9000.	59409.8
1625.	9000.	59141.5	3060.	9000.	59406.1
1650.	9000.	59148.7	3070.	9000.	59392.5
1675.	9000.	59153.9	3080.	9000.	59386.1
1700.	9000.	59153.9	3090.	9000.	59378.7
1725.	9000.	59167.4	3100.	9000.	59371.5
1750.	9000.	59199.3	3110.	9000.	59371.4
1775.	9000.	59222.3	3120.	9000.	59372.0
1800.	9000.	59254.0	3130.	9000.	59376.7
1825.	9000.	59216.9	3140.	9000.	59381.3
1850.	9000.	59200.3	3150.	9000.	59390.6
1875.	9000.	59184.8	3160.	9000.	59397.6
1900.	9000.	59170.1	3170.	9000.	59407.6
1925.	9000.	59162.5	3180.	9000.	59418.5
1950.	9000.	59162.9	3190.	9000.	59425.7
1975.	9000.	59167.3	3200.	9000.	59418.9
2000.	9000.	59147.6	3210.	9000.	59408.5
2025.	9000.	59146.4	3220.	9000.	59415.4
2050.	9000.	59148.1	3230.	9000.	59432.5
2075.	9000.	59150.1	3240.	9000.	59424.6
2100.	9000.	59146.1	3250.	9000.	59408.3
2125.	9000.	59139.7	3260.	9000.	59388.4
2150.	9000.	59136.9	3270.	9000.	59368.2
2175.	9000.	59133.4	3280.	9000.	59343.5
2200.	9000.	59138.4	3290.	9000.	59323.9
2225.	9000.	59148.8	3300.	9000.	59303.7
2250.	9000.	59145.2	3310.	9000.	59287.2
2275.	9000.	59142.7	3320.	9000.	59273.3
2300.	9000.	59149.5	3330.	9000.	59262.5
2325.	9000.	59168.3	3340.	9000.	59254.2
2350.	9000.	59185.4	3350.	9000.	59246.6
2375.	9000.	59199.8	3360.	9000.	59248.1
2400.	9000.	59202.0	3370.	9000.	59244.0
2425.	9000.	59219.2	3380.	9000.	59244.2
2450.	9000.	59259.8	3390.	9000.	59242.5
2475.	9000.	59247.3	3400.	9000.	59235.4
2500.	9000.	59236.6			

## HINCHS - CUMMINS TRAVERSE 9 P2.

3410.	9000.	59247.9
3420.	9000.	59241.4
3430.	9000.	59243.7
3440.	9000.	59251.0
3450.	9000.	59257.2
3460.	9000.	59253.3
3470.	9000.	59256.9
3480.	9000.	59264.6
3490.	9000.	59277.8
3500.	9000.	59262.9
3510.	9000.	59269.9
3520.	9000.	59282.5
3530.	9000.	59297.4
3540.	9000.	59304.1
3550.	9000.	59312.2
3560.	9000.	59314.0
3570.	9000.	59313.6
3580.	9000.	59313.6
3590.	9000.	59307.6
3600.	9000.	59304.0
3610.	9000.	59298.5
3620.	9000.	59302.3
3630.	9000.	59300.1
3640.	9000.	59303.7
3650.	9000.	59308.1
3660.	9000.	59308.2
3670.	9000.	59280.0
3695.	9000.	59279.4
3720.	9000.	59270.0
3745.	9000.	59259.7
3770.	9000.	59248.4
3795.	9000.	59238.2

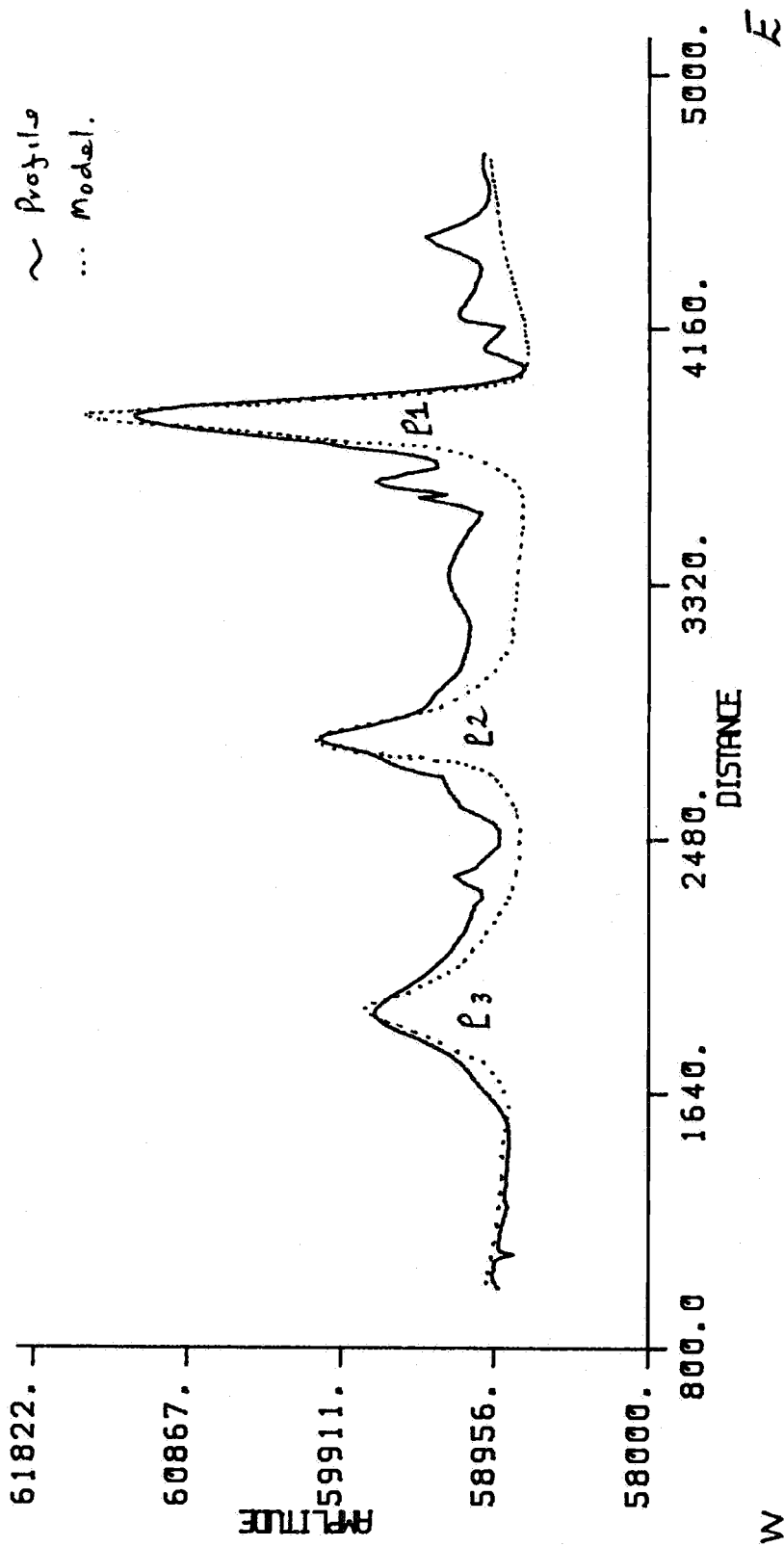




1: 50,000

HINCKS - CUMMINS  
GROUND MAGNETIC PROFILES  
TRAVERSES 10 & 11

# HINCKS - CUMMINS - TRAVERSE NO. 10

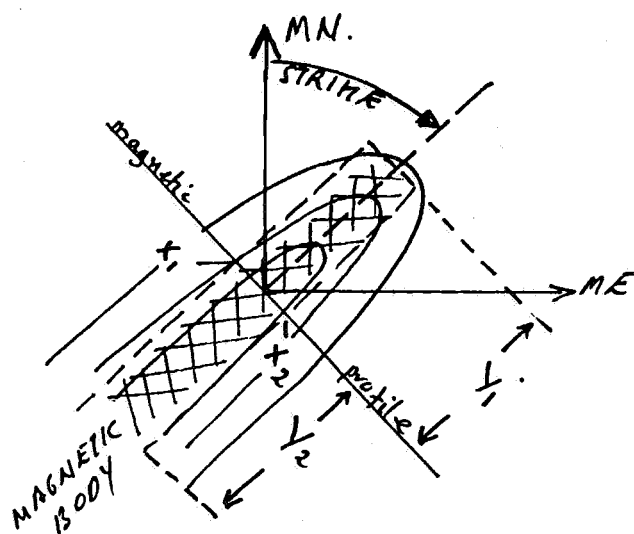
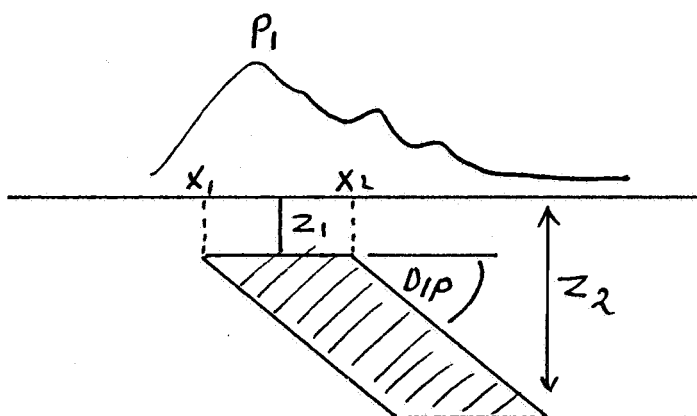


MODEL PARAMETERS.

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PROFILE NO: 10 LOCATION: HINICRS - CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	3850	2760	1780		
X <sub>2</sub>	3900	2850	1920		
Y <sub>1</sub> strike	-1000	-1000	-1000		
Y <sub>2</sub>	1000	1000	1000		
Z <sub>1</sub> Depth	50	50	80		
Z <sub>2</sub> Thick	300	500	500		
Sucept.	0.04	0.011	0.008		
Dip.	110°	70°	70°		
STRIKE	5°	5°	5°		



## HINCHS - CUMMINS - TRAVERSE 10 P3

4185.	10000.	59149.5
4195.	10000.	59174.2
4205.	10000.	59183.4
4215.	10000.	59179.9
4225.	10000.	59169.9
4235.	10000.	59149.6
4245.	10000.	59143.0
4255.	10000.	59129.9
4265.	10000.	59117.3
4275.	10000.	59105.1
4285.	10000.	59091.5
4310.	10000.	59078.4
4335.	10000.	59051.3
4360.	10000.	59047.4
4385.	10000.	59087.0
4410.	10000.	59194.8
4435.	10000.	59319.7
4460.	10000.	59394.5
4485.	10000.	59271.9
4510.	10000.	59154.3
4535.	10000.	59070.8
4560.	10000.	59024.9
4585.	10000.	59004.9
4610.	10000.	58999.8
4635.	10000.	59003.0
4660.	10000.	59026.7
4685.	10000.	59040.1
4710.	10000.	59037.5
4735.	10000.	59029.9



## HINCHS - CUMMINS - TRAVERSE 10 P2

2725.	10000.	59589.5	3625.	10000.	59361.7
2735.	10000.	59633.7	3635.	10000.	59551.8
2745.	10000.	59671.1	3645.	10000.	59655.7
2755.	10000.	59716.5	3655.	10000.	59701.8
2765.	10000.	59763.7	3665.	10000.	59662.7
2775.	10000.	59840.2	3675.	10000.	59562.0
2785.	10000.	59918.5	3685.	10000.	59508.1
2795.	10000.	59998.5	3695.	10000.	59395.2
2805.	10000.	60039.7	3705.	10000.	59318.4
2815.	10000.	60040.2	3715.	10000.	59315.8
2825.	10000.	59993.1	3725.	10000.	59335.2
2835.	10000.	59909.9	3735.	10000.	59388.5
2845.	10000.	59820.3	3745.	10000.	59483.2
2855.	10000.	59732.0	3755.	10000.	59597.0
2865.	10000.	59653.9	3765.	10000.	59788.8
2875.	10000.	59575.7	3775.	10000.	59927.7
2885.	10000.	59514.7	3785.	10000.	60037.1
2895.	10000.	59463.9	3795.	10000.	60245.8
2905.	10000.	59422.0	3805.	10000.	60406.9
2915.	10000.	59393.0	3815.	10000.	60584.9
2925.	10000.	59372.0	3825.	10000.	60771.4
2935.	10000.	59357.2	3835.	10000.	60926.8
2945.	10000.	59345.4	3845.	10000.	61061.4
2955.	10000.	59334.5	3855.	10000.	61154.6
2965.	10000.	59317.0	3865.	10000.	61190.5
2975.	10000.	59295.3	3875.	10000.	61194.5
2985.	10000.	59274.3	3885.	10000.	61132.2
2995.	10000.	59254.9	3895.	10000.	61008.6
3005.	10000.	59233.9	3905.	10000.	60837.8
3015.	10000.	59213.9	3915.	10000.	60523.4
3025.	10000.	59197.8	3925.	10000.	60267.8
3035.	10000.	59181.8	3935.	10000.	60003.2
3045.	10000.	59170.4	3945.	10000.	59727.1
3055.	10000.	59160.3	3955.	10000.	59485.3
3080.	10000.	59147.0	3965.	10000.	59260.7
3105.	10000.	59130.5	3975.	10000.	59079.9
3130.	10000.	59121.0	3985.	10000.	58990.8
3155.	10000.	59114.5	3995.	10000.	58908.5
3180.	10000.	59114.1	4005.	10000.	58834.9
3205.	10000.	59124.6	4015.	10000.	58801.6
3230.	10000.	59150.0	4025.	10000.	58778.0
3255.	10000.	59179.3	4035.	10000.	58785.7
3280.	10000.	59208.3	4045.	10000.	58805.8
3305.	10000.	59232.7	4055.	10000.	58854.8
3330.	10000.	59245.2	4065.	10000.	58898.6
3355.	10000.	59248.7	4075.	10000.	58942.6
3380.	10000.	59239.7	4085.	10000.	59021.4
3405.	10000.	59218.8	4095.	10000.	59027.0
3430.	10000.	59197.8	4105.	10000.	59016.2
3455.	10000.	59169.3	4115.	10000.	58996.5
3480.	10000.	59140.5	4125.	10000.	58978.2
3505.	10000.	59112.4	4135.	10000.	58958.4
3530.	10000.	59070.5	4145.	10000.	58936.2
3555.	10000.	59041.9	4155.	10000.	58918.3
3580.	10000.	59177.7	4165.	10000.	58906.2
3605.	10000.	59433.4	4175.	10000.	59027.6
3615.	10000.	59261.6			

HINCHS - CUMMINS - TRAVERSE 10 P<sub>1</sub>

1000.	10000.	58934.3	1910.	10000.	59706.7
1025.	10000.	58967.8	1920.	10000.	59693.5
1050.	10000.	58971.2	1930.	10000.	59672.9
1060.	10000.	58952.8	1940.	10000.	59649.5
1070.	10000.	58959.9	1950.	10000.	59624.8
1080.	10000.	58959.1	1960.	10000.	59598.1
1090.	10000.	58948.1	1970.	10000.	59571.6
1100.	10000.	58912.4	1980.	10000.	59541.1
1110.	10000.	58838.8	1990.	10000.	59510.3
1120.	10000.	58923.0	2000.	10000.	59477.1
1130.	10000.	58936.0	2010.	10000.	59448.5
1140.	10000.	58928.6	2020.	10000.	59422.7
1150.	10000.	58930.5	2030.	10000.	59394.5
1160.	10000.	58927.5	2040.	10000.	59371.2
1170.	10000.	58922.8	2050.	10000.	59351.1
1180.	10000.	58923.8	2060.	10000.	59330.6
1190.	10000.	58914.6	2070.	10000.	59307.1
1215.	10000.	58902.6	2080.	10000.	59284.6
1240.	10000.	58889.8	2090.	10000.	59269.3
1265.	10000.	58876.9	2100.	10000.	59250.4
1290.	10000.	58891.5	2110.	10000.	59232.8
1315.	10000.	58893.8	2120.	10000.	59218.1
1340.	10000.	58880.3	2130.	10000.	59207.8
1365.	10000.	58884.8	2140.	10000.	59191.9
1390.	10000.	58877.5	2150.	10000.	59178.9
1415.	10000.	58876.4	2160.	10000.	59169.1
1440.	10000.	58870.8	2170.	10000.	59150.8
1465.	10000.	58867.3	2180.	10000.	59140.5
1490.	10000.	58865.2	2190.	10000.	59130.6
1515.	10000.	58867.3	2200.	10000.	59123.9
1540.	10000.	58876.6	2210.	10000.	59116.7
1565.	10000.	58894.3	2220.	10000.	59108.6
1590.	10000.	58923.8	2230.	10000.	59101.2
1615.	10000.	58962.9	2240.	10000.	59097.8
1640.	10000.	59006.8	2250.	10000.	59084.6
1665.	10000.	59050.7	2260.	10000.	59083.2
1690.	10000.	59087.5	2285.	10000.	59032.9
1715.	10000.	59123.9	2310.	10000.	59045.5
1740.	10000.	59173.4	2335.	10000.	59147.8
1750.	10000.	59197.0	2360.	10000.	59206.4
1760.	10000.	59221.6	2385.	10000.	59081.9
1770.	10000.	59254.6	2410.	10000.	59033.6
1780.	10000.	59286.1	2435.	10000.	58980.4
1790.	10000.	59318.5	2460.	10000.	58930.6
1800.	10000.	59357.6	2485.	10000.	58931.6
1810.	10000.	59398.4	2510.	10000.	58930.5
1820.	10000.	59440.9	2535.	10000.	58971.8
1830.	10000.	59485.2	2560.	10000.	59064.8
1840.	10000.	59537.9	2585.	10000.	59173.4
1850.	10000.	59582.5	2610.	10000.	59198.5
1860.	10000.	59618.7	2635.	10000.	59237.8
1870.	10000.	59650.3	2660.	10000.	59264.8
1880.	10000.	59677.8	2685.	10000.	59288.1
1890.	10000.	59700.9	2695.	10000.	59414.7
1900.	10000.	59708.7	2705.	10000.	59468.7
			2715.	10000.	59538.9

PROJECT NO. CUMMINS LOCATION HINCHES  
 PROFILE NO. 10, Emvoo ORIENTATION W → E  
 OPERATOR N. Blake. DATE 20/1/85  
 PROFILE/REF. COORDINATES "10,000"  
 BASE STATION NOS. (Start) \_\_\_\_\_

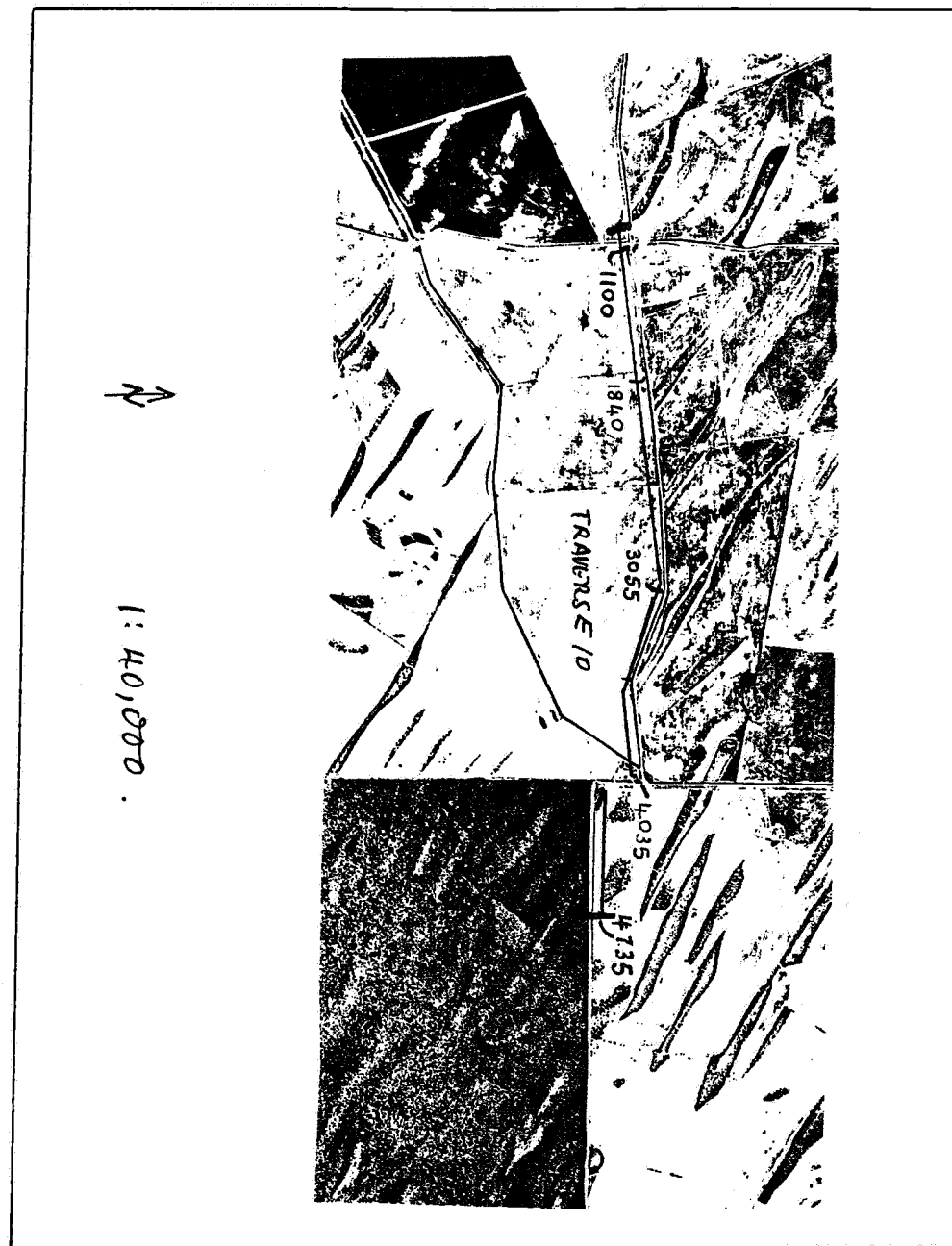
BASE STATION NOS. (Finish) \_\_\_\_\_

## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
1000	0	25m	Yellow cross road sign, West side
1050	3	10m	(of cross roads)
	9	"	centre of cross road.
	16	25m	
1740	39	10m	
1840	45	"	T on south side; fence
2260	89	25m	(54 = peak values).
	96	"	Water tank on south side.
2685	108	10m	
	120	"	peak values.
3055	144	25m	road bend
3600	164	"	corner post
3605	165	10m	
3810	184		Power lines overhead
	193		high values.

REMARKS: \_\_\_\_\_

Cassette/Disk No.: \_\_\_\_\_ VAX File: \_\_\_\_\_



\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc.,

PROJECT NO. CUMMINS LOCATION HINCAS  
 PROFILE NO. 10, "Em roo" ORIENTATION W → E  
 OPERATOR N. Blake. DATE 20/1/85  
 PROFILE/REF. COORDINATES See other sheet  
 BASE STATION NOS. (Start) \_\_\_\_\_

BASE STATION NOS. (Finish) \_\_\_\_\_

## TRAVERSE DETAILS:-

COORDINATE	STATION NO.	SPACING	LANDMARK
3929	197	10m	
	203	"	Yellow "band" road sign
	213	"	band.
	222	"	Fence - EOT Loop 1
	223	10m	as above.
4385	235	25m	
4735	252	"	Fence intersection EOT Loop 2

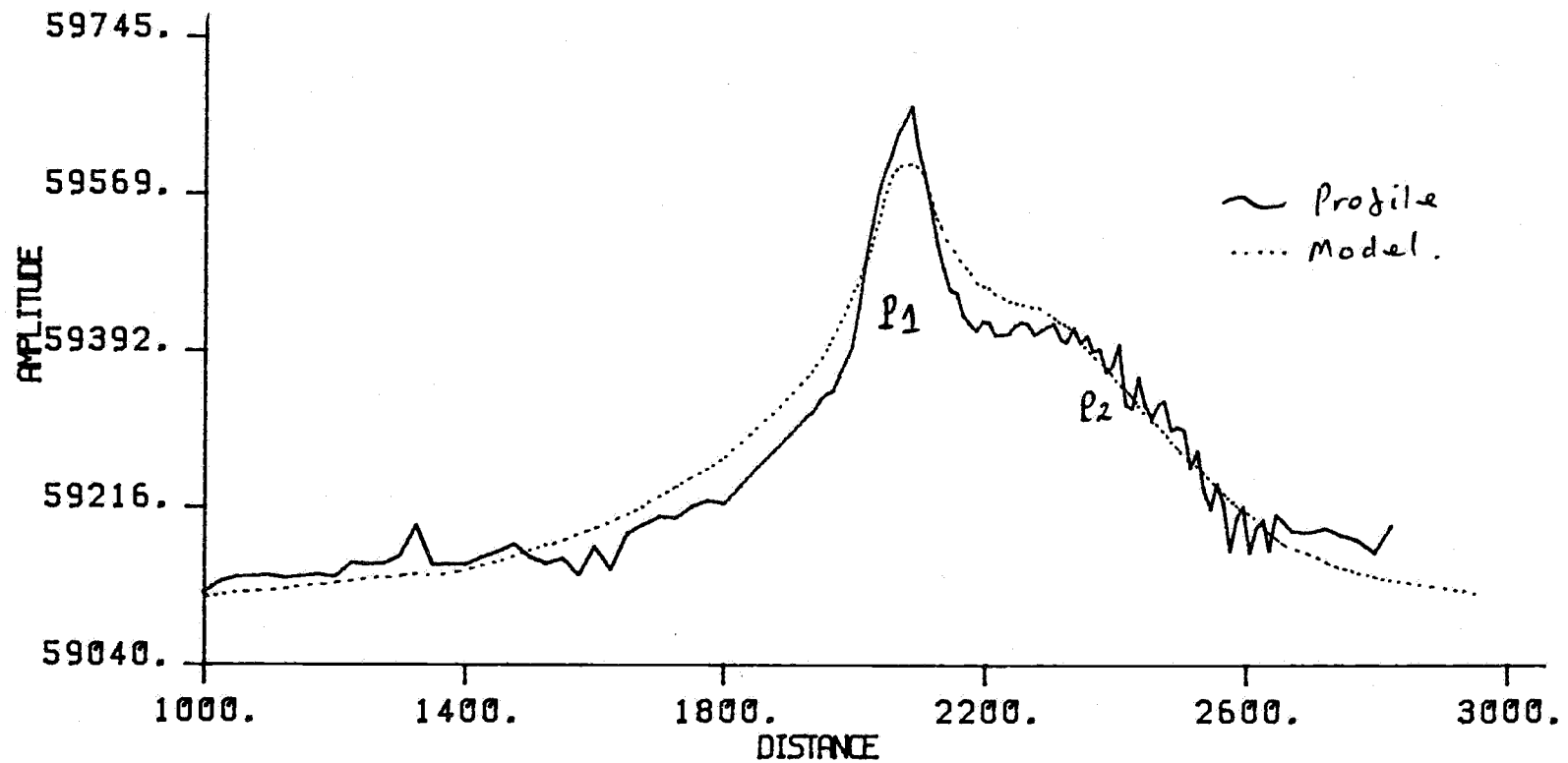
REMARKS: \_\_\_\_\_

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;

\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc.,

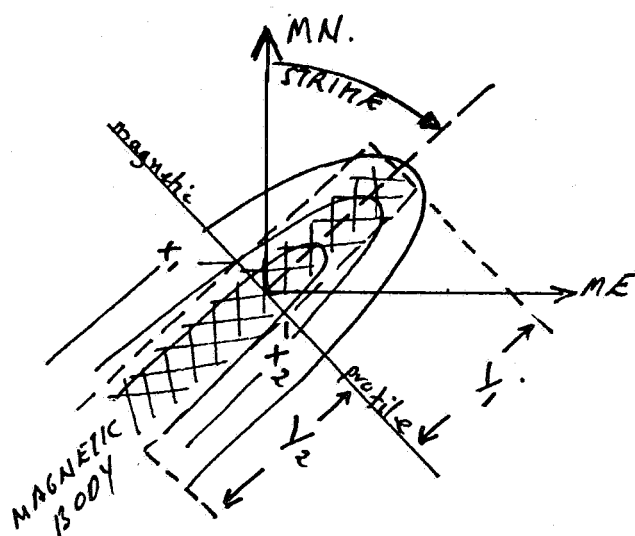
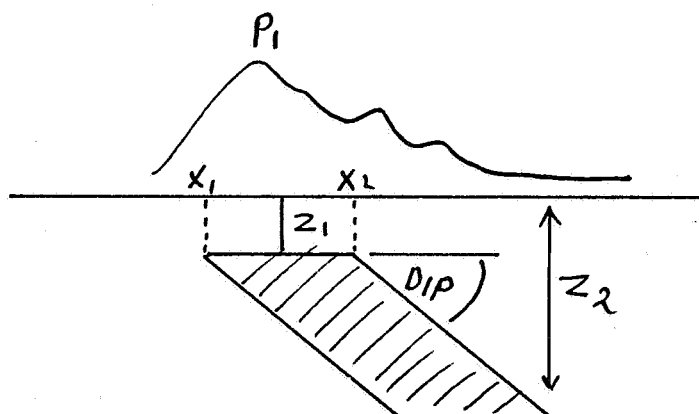
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HINCKS - CUMMINS - TRAVERSE NO. 11  
11000



PROFILE NO: 17 LOCATION: HINCHES - CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	2060	2050			
X <sub>2</sub>	2125	2450			
Y <sub>1</sub> strike	-1000	-10000			
Y <sub>2</sub>	-1,000	10,000			
Z <sub>1</sub> Depth	50	300			
Z <sub>2</sub> Thich	500	5000			
Sucept.	0.0024	0.0040			
Dip.	120°	110°			
STRIKE	5°	5°			



## HINCHS - CUMMINS - TRAVERSE NO 11

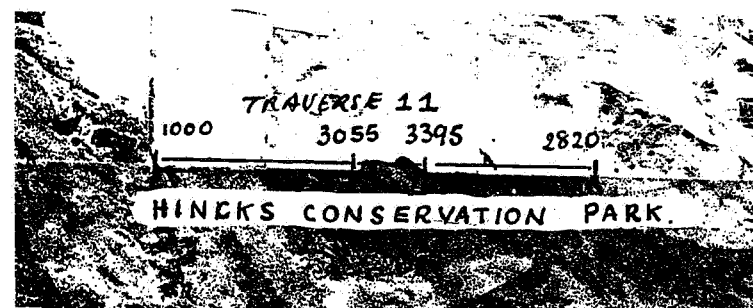
1000.	11000.	59121.2			
1025.	11000.	59134.1	2155.	11000.	59457.9
1050.	11000.	59139.2	2165.	11000.	59432.6
1075.	11000.	59140.2	2175.	11000.	59423.3
1100.	11000.	59141.1	2185.	11000.	59415.8
1125.	11000.	59137.7	2195.	11000.	59426.5
1150.	11000.	59139.7	2205.	11000.	59424.8
1175.	11000.	59141.9	2215.	11000.	59410.6
1200.	11000.	59139.3	2225.	11000.	59411.7
1225.	11000.	59155.2	2235.	11000.	59412.3
1250.	11000.	59153.2	2245.	11000.	59421.6
1275.	11000.	59154.4	2255.	11000.	59425.4
1300.	11000.	59163.0	2265.	11000.	59423.6
1325.	11000.	59197.3	2275.	11000.	59411.6
1350.	11000.	59152.5	2285.	11000.	59416.7
1375.	11000.	59153.1	2295.	11000.	59420.9
1400.	11000.	59153.6	2305.	11000.	59424.0
1425.	11000.	59161.4	2315.	11000.	59406.3
1450.	11000.	59168.1	2325.	11000.	59403.5
1475.	11000.	59176.5	2335.	11000.	59420.3
1500.	11000.	59160.9	2345.	11000.	59402.4
1525.	11000.	59154.5	2355.	11000.	59410.4
1550.	11000.	59160.1	2365.	11000.	59393.0
1575.	11000.	59140.6	2375.	11000.	59395.4
1600.	11000.	59173.3	2385.	11000.	59368.4
1625.	11000.	59147.8	2395.	11000.	59378.4
1650.	11000.	59188.8	2405.	11000.	59400.8
1675.	11000.	59198.6	2415.	11000.	59332.8
1700.	11000.	59207.1	2425.	11000.	59327.7
1725.	11000.	59205.6	2435.	11000.	59363.8
1750.	11000.	59219.1	2445.	11000.	59332.8
1775.	11000.	59225.2	2455.	11000.	59316.9
1800.	11000.	59221.8	2465.	11000.	59332.1
1825.	11000.	59241.8	2475.	11000.	59337.1
1850.	11000.	59262.2	2485.	11000.	59304.3
1875.	11000.	59280.5	2495.	11000.	59306.9
1900.	11000.	59300.0	2505.	11000.	59302.7
1925.	11000.	59319.6	2515.	11000.	59260.7
1935.	11000.	59325.3	2525.	11000.	59280.0
1945.	11000.	59337.9	2535.	11000.	59237.0
1955.	11000.	59345.4	2545.	11000.	59215.2
1965.	11000.	59348.7	2555.	11000.	59243.6
1975.	11000.	59365.5	2565.	11000.	59221.6
1985.	11000.	59381.0	2575.	11000.	59167.8
1995.	11000.	59400.0	2585.	11000.	59205.8
2005.	11000.	59442.8	2595.	11000.	59218.2
2015.	11000.	59491.9	2605.	11000.	59165.8
2025.	11000.	59532.9	2615.	11000.	59195.1
2035.	11000.	59572.2	2625.	11000.	59203.1
2045.	11000.	59595.6	2635.	11000.	59168.6
2055.	11000.	59612.8	2645.	11000.	59209.4
2065.	11000.	59637.3	2670.	11000.	59189.6
2075.	11000.	59650.7	2695.	11000.	59189.1
2085.	11000.	59667.8	2720.	11000.	59193.9
2095.	11000.	59623.6	2745.	11000.	59185.7
2105.	11000.	59590.3	2770.	11000.	59180.3
2115.	11000.	59554.1	2795.	11000.	59166.1
2125.	11000.	59513.8	2820.	11000.	59196.4
2135.	11000.	59485.8			
2145.	11000.	59460.7			

BASE STATION NOS. (Finish) \_\_\_\_\_

[illegible]

REMARKS : \_\_\_\_\_

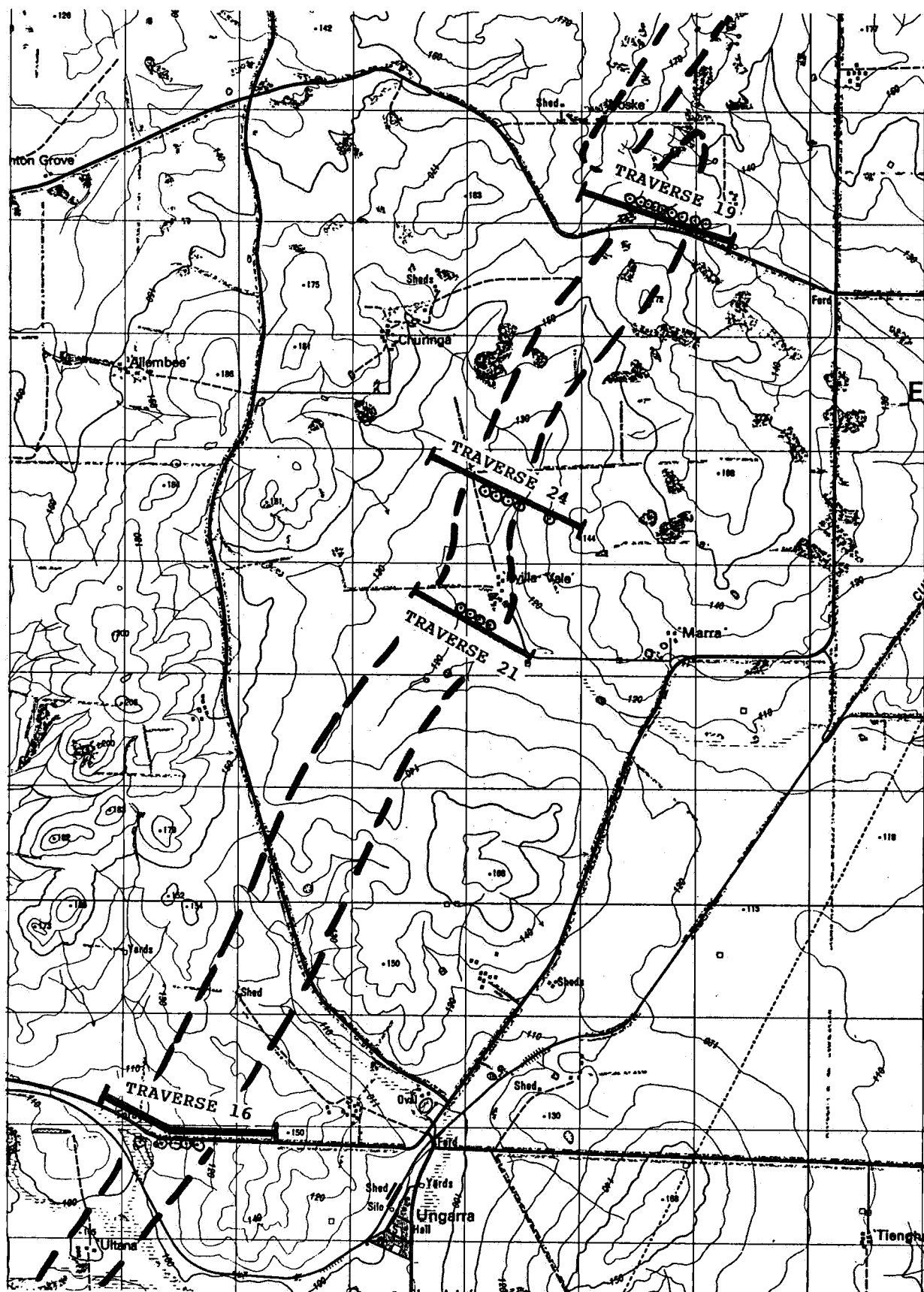
Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;



1: 40,000

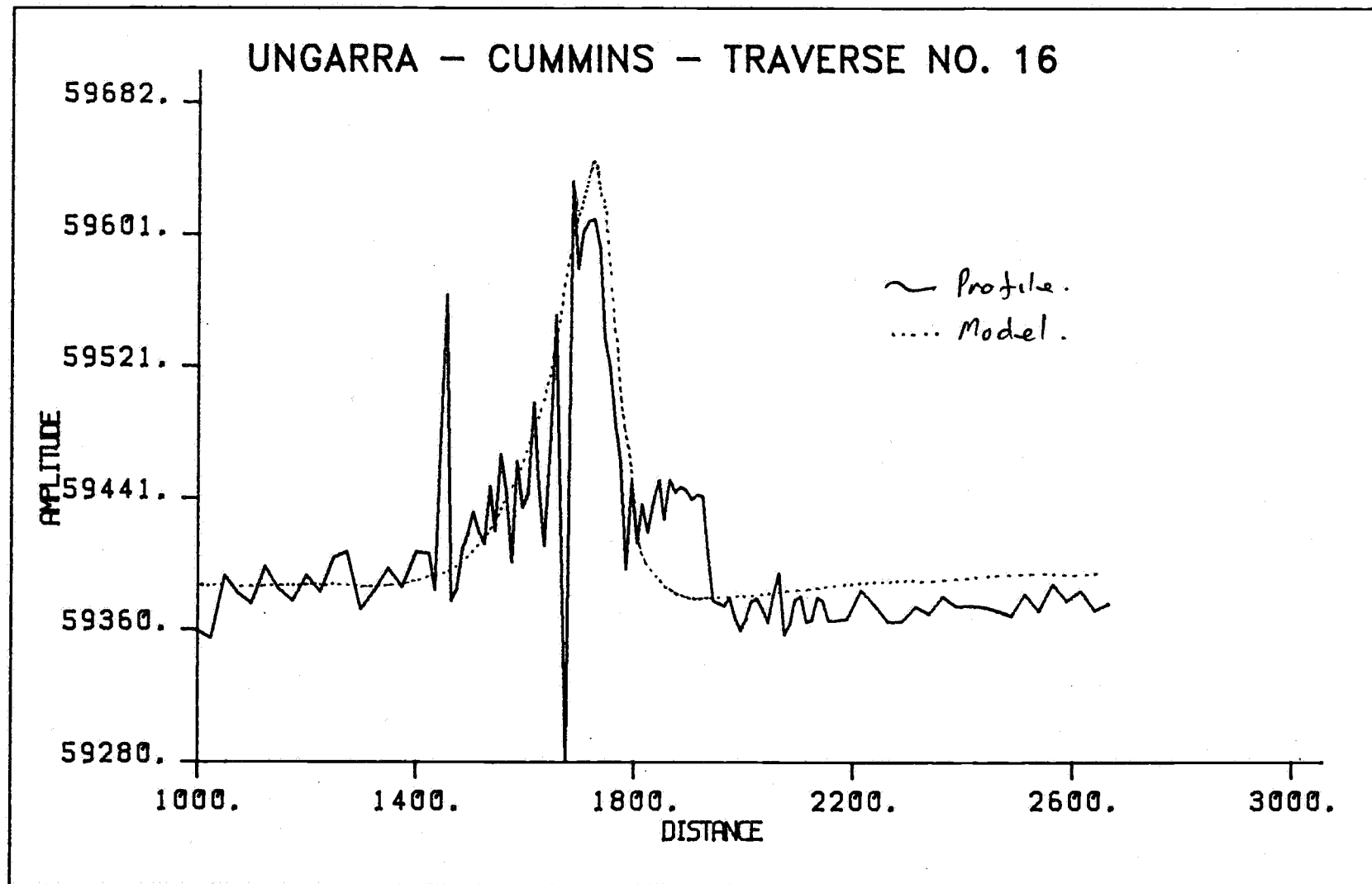






**1: 50,000**

**UNGARRA - CUMMINS**  
**GROUND MAGNETIC AND DRILLING PROFILES**  
**TRAVERSES 16, 19, 21 & 24**



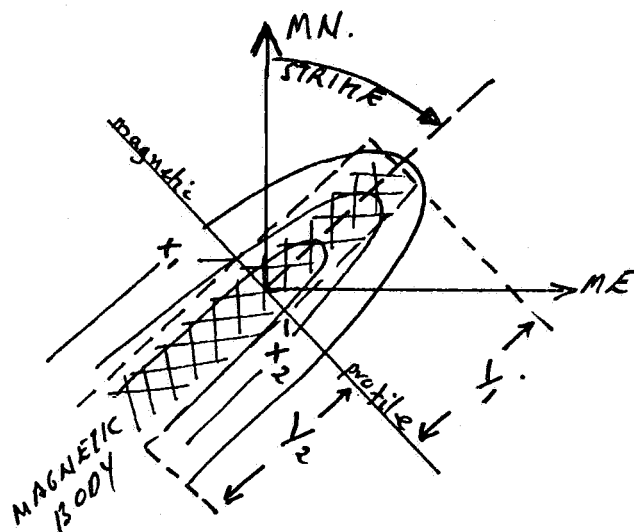
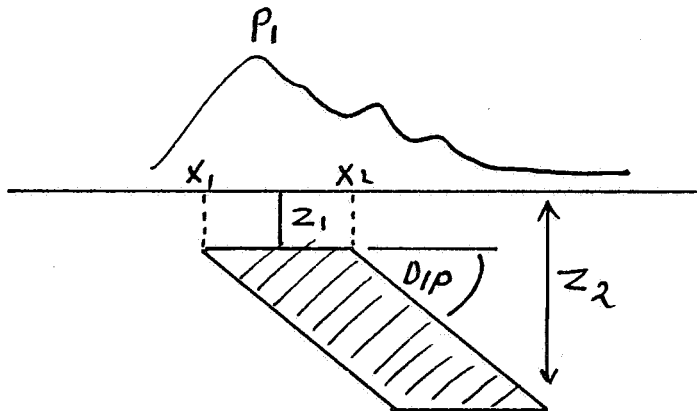
MODEL PARAMETERS.

119

PROFILE NO: 66

LOCATION: UNGARRA - CUMMINS.

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1700				
X <sub>2</sub>	1760				
Y <sub>1</sub> strike	-1000				
Y <sub>2</sub>	1000				
Z <sub>1</sub> Depth	60				
Z <sub>2</sub> Thich	390				
Sucept.	0.004				
Dip.	120°				
STRIKE	5°				



## UNGARRA - CUMMINS - TRAVERSE 16

1000.	16000.	59359.9	1815.	16000.	59436.6
1025.	16000.	59355.2	1825.	16000.	59419.6
1050.	16000.	59393.6	1835.	16000.	59438.2
1075.	16000.	59382.6	1845.	16000.	59451.5
1100.	16000.	59376.0	1855.	16000.	59427.5
1125.	16000.	59398.7	1865.	16000.	59451.7
1150.	16000.	59384.9	1875.	16000.	59444.0
1175.	16000.	59377.7	1885.	16000.	59447.3
1200.	16000.	59393.3	1895.	16000.	59445.1
1225.	16000.	59383.2	1905.	16000.	59439.7
1250.	16000.	59404.4	1915.	16000.	59442.4
1275.	16000.	59407.9	1925.	16000.	59441.4
1300.	16000.	59372.6	1935.	16000.	59407.9
1325.	16000.	59384.2	1945.	16000.	59377.8
1350.	16000.	59398.0	1955.	16000.	59376.3
1375.	16000.	59386.5	1965.	16000.	59374.5
1400.	16000.	59408.0	1975.	16000.	59379.9
1425.	16000.	59406.7	1985.	16000.	59367.9
1435.	16000.	59384.8	1995.	16000.	59359.9
1445.	16000.	59478.5	2005.	16000.	59367.2
1455.	16000.	59564.1	2015.	16000.	59377.8
1465.	16000.	59378.2	2025.	16000.	59379.1
1475.	16000.	59385.4	2035.	16000.	59372.6
1485.	16000.	59409.8	2045.	16000.	59364.6
1495.	16000.	59419.5	2055.	16000.	59381.0
1505.	16000.	59432.2	2065.	16000.	59394.8
1515.	16000.	59420.2	2075.	16000.	59357.5
1525.	16000.	59412.7	2085.	16000.	59364.3
1535.	16000.	59448.0	2095.	16000.	59378.7
1545.	16000.	59420.6	2105.	16000.	59380.6
1555.	16000.	59467.4	2115.	16000.	59365.1
1565.	16000.	59444.6	2125.	16000.	59366.4
1575.	16000.	59401.7	2135.	16000.	59380.2
1585.	16000.	59463.0	2145.	16000.	59377.6
1595.	16000.	59434.8	2155.	16000.	59365.9
1605.	16000.	59443.9	2165.	16000.	59365.7
1615.	16000.	59498.8	2190.	16000.	59367.1
1625.	16000.	59448.2	2215.	16000.	59384.5
1635.	16000.	59411.7	2240.	16000.	59375.5
1645.	16000.	59470.9	2265.	16000.	59365.1
1655.	16000.	59551.9	2290.	16000.	59365.3
1665.	16000.	59425.1	2315.	16000.	59374.5
1675.	16000.	59281.7	2340.	16000.	59370.1
1685.	16000.	59633.6	2365.	16000.	59380.8
1695.	16000.	59580.2	2390.	16000.	59374.8
1705.	16000.	59603.2	2415.	16000.	59375.1
1715.	16000.	59609.6	2440.	16000.	59374.2
1725.	16000.	59610.7	2465.	16000.	59371.9
1735.	16000.	59592.9	2490.	16000.	59368.9
1745.	16000.	59537.7	2515.	16000.	59382.5
1755.	16000.	59519.6	2540.	16000.	59371.8
1765.	16000.	59484.3	2565.	16000.	59388.6
1775.	16000.	59462.2	2590.	16000.	59378.2
1785.	16000.	59397.2	2615.	16000.	59384.8
1795.	16000.	59449.8	2640.	16000.	59372.3
1805.	16000.	59412.8	2665.	16000.	59376.4

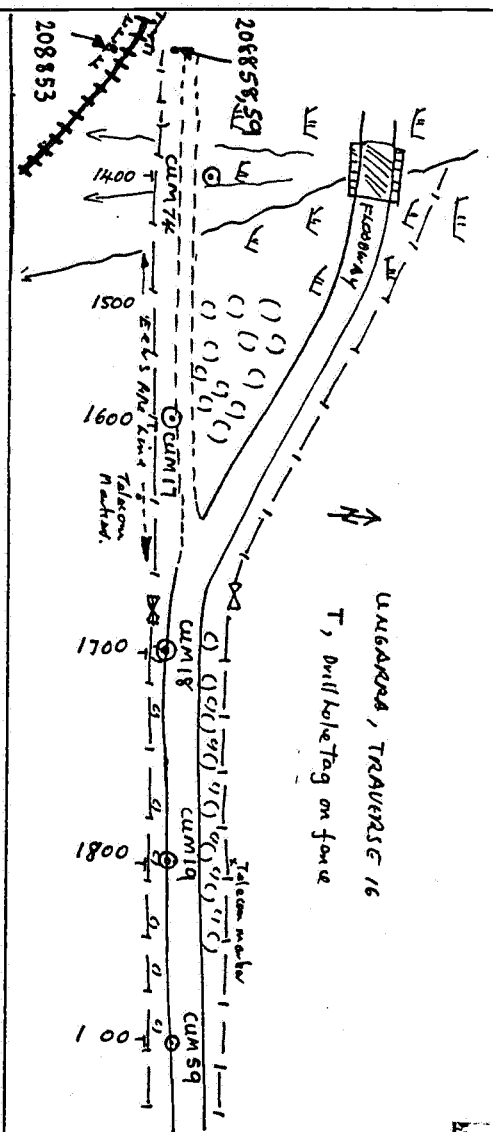
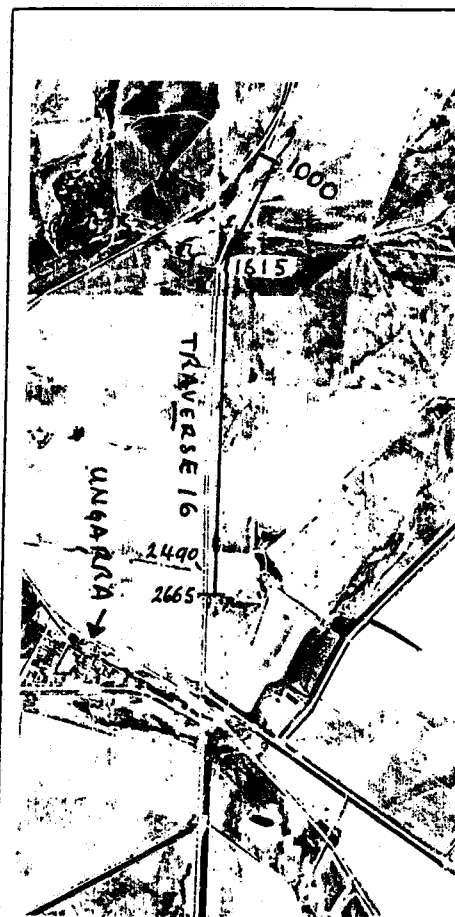
PROJECT NO. CUMMINS LOCATION UNGARRA.PROFILE NO. 16, Ungarra ORIENTATION W → EOPERATOR N. Blake DATE \_\_\_\_\_PROFILE/REF. COORDINATES "16,000"

BASE STATION NOS. (Start) \_\_\_\_\_

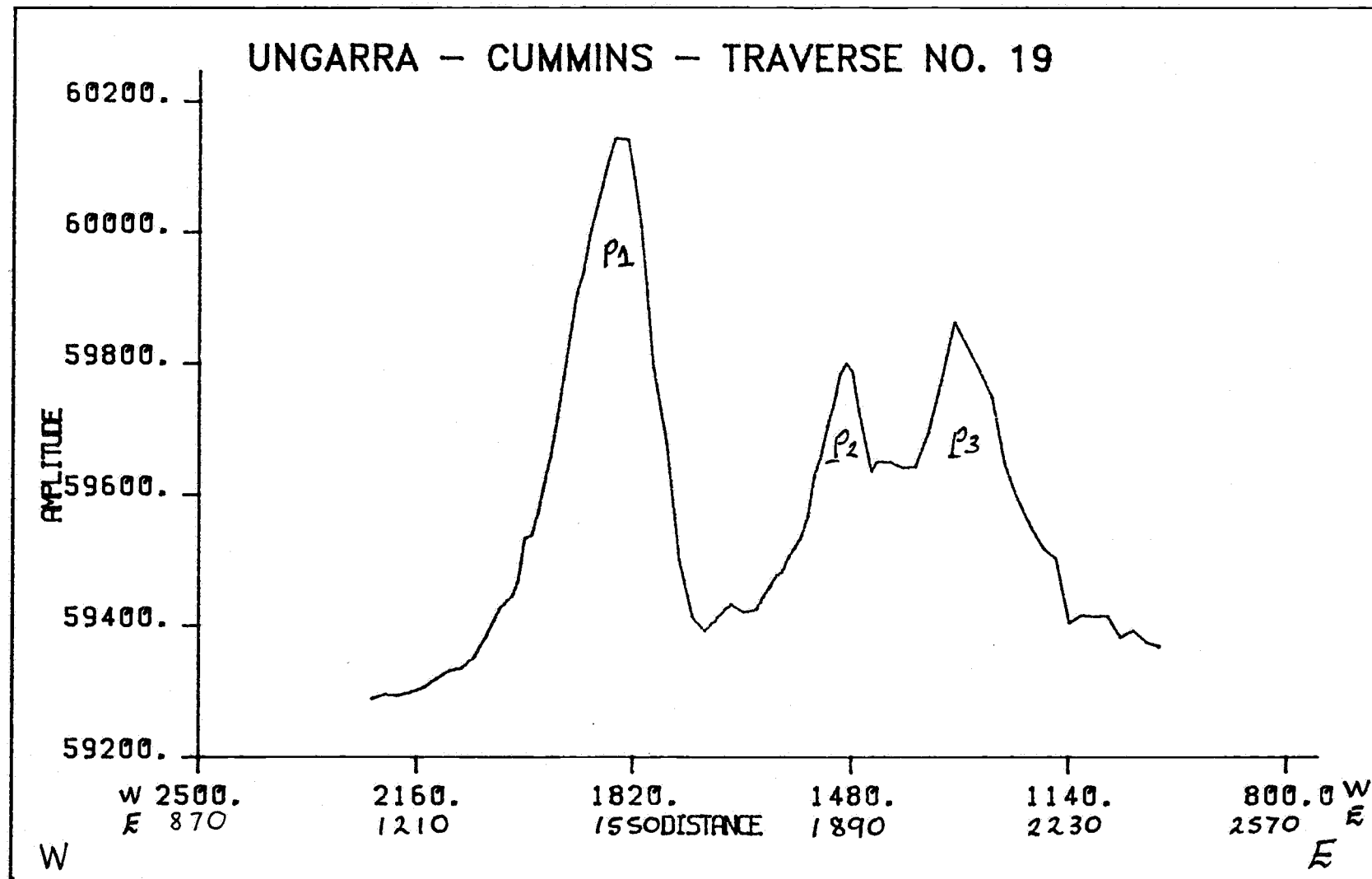
BASE STATION NOS. (Finish) \_\_\_\_\_

## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
1000	386	25	Borrow pit/Swamp, white post N
1050	388	"	White post-culvert, Yellow Telecom P.
1175	393	"	Yellow, 'Dip' sign, N (W)
1300	398	"	West end of floodway.
1425	403	10m	
1455	406	"	Yellow "Dip" sign S (E)
1615	422	"	Galv, Telecom post, N, bend begins
1745	435	"	" " "
1755	436	"	" " "
1795	440	"	White " "
1845	445	"	Red E&WS fireplug S. side
2165	477	25m	Yellow E&WS post, meter, Fence 1-2
2490	490	"	Fence 1-2, S side.
2665	497	"	EDT, Yellow Telecom post, Hill crest, dentale gate.

REMARKS: Some magnetic noise due to buried service cables /  
W-pipes up to 100 ft between road verges.Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;

\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc..

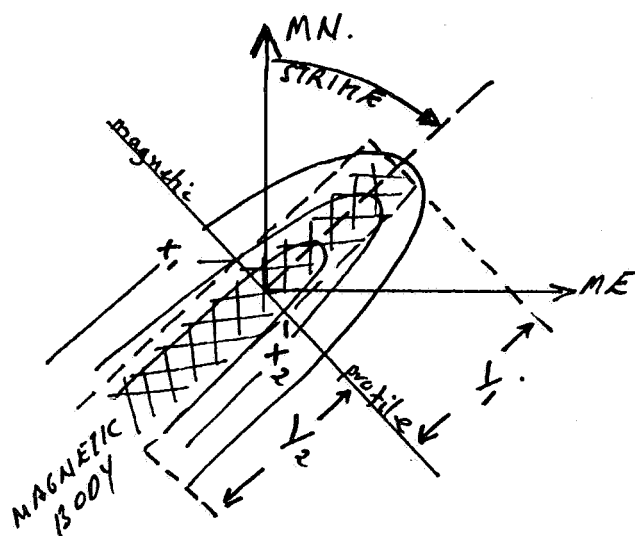
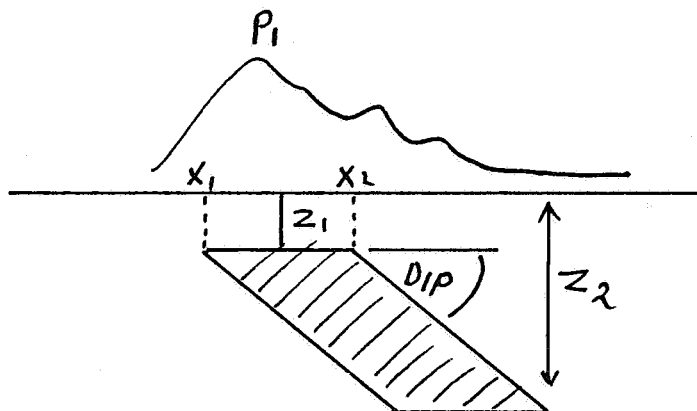


$$E = 1000 + (2370 - W)$$

L-122

PROFILE NO: 19 LOCATION: UNGARRA-CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1430	1816	1980		
X <sub>2</sub>	1597	1910	2125		
Y <sub>1</sub> strike	—	—	—		
Y <sub>2</sub>	—	—	—		
Z <sub>1</sub> Depth	35	25	50		
Z <sub>2</sub> Thick	—	—	—		
Sucept.	—	—	—	—	
Dip.	RULE OF		THUMB		
STRIKE	ESTIMATES		ONLY		



## UNGARRA. - CUMMINS

## TRAVERSE 19.

WESTINGS ONLY.

1000.	19000.	59369.0
1020.	19000.	59376.0
1040.	19000.	59394.0
1060.	19000.	59382.0
1080.	19000.	59416.0
1100.	19000.	59415.0
1120.	19000.	59417.0
1140.	19000.	59404.0
1160.	19000.	59503.0
1180.	19000.	59519.0
1200.	19000.	59553.0
1220.	19000.	59595.0
1240.	19000.	59647.0
1260.	19000.	59749.0
1280.	19000.	59789.0
1320.	19000.	59864.0
1340.	19000.	59773.0
1360.	19000.	59694.0
1380.	19000.	59643.0
1400.	19000.	59642.0
1420.	19000.	59650.0
1440.	19000.	59651.0
1450.	19000.	59636.0
1460.	19000.	59681.0
1470.	19000.	59731.0
1480.	19000.	59788.0
1490.	19000.	59801.0
1500.	19000.	59783.0
1510.	19000.	59736.0
1520.	19000.	59705.0
1530.	19000.	59660.0
1540.	19000.	59627.0
1550.	19000.	59566.0
1560.	19000.	59537.0
1570.	19000.	59519.0
1580.	19000.	59503.0
1590.	19000.	59482.0
1600.	19000.	59475.0
1610.	19000.	59458.0
1620.	19000.	59442.0
1630.	19000.	59424.0
1650.	19000.	59420.0
1670.	19000.	59433.0
1710.	19000.	59392.0
1730.	19000.	59413.0
1750.	19000.	59501.0
1770.	19000.	59680.0
1790.	19000.	59793.0

WESTINGS ONLY

1800.	19000.	59908.0
1810.	19000.	60012.0
1820.	19000.	60083.0
1830.	19000.	60142.0
1840.	19000.	60143.0
1850.	19000.	60144.0
1860.	19000.	60112.0
1870.	19000.	60074.0
1880.	19000.	60035.0
1890.	19000.	59993.0
1900.	19000.	59938.0
1910.	19000.	59907.0
1920.	19000.	59840.0
1930.	19000.	59777.0
1940.	19000.	59716.0
1950.	19000.	59662.0
1960.	19000.	59615.0
1970.	19000.	59570.0
1980.	19000.	59538.0
1990.	19000.	59534.0
2000.	19000.	59471.0
2010.	19000.	59445.0
2030.	19000.	59425.0
2050.	19000.	59386.0
2070.	19000.	59352.0
2090.	19000.	59335.0
2110.	19000.	59331.0
2130.	19000.	59318.0
2150.	19000.	59305.0
2170.	19000.	59298.0
2190.	19000.	59294.0
2210.	19000.	59295.0
2230.	19000.	59289.0



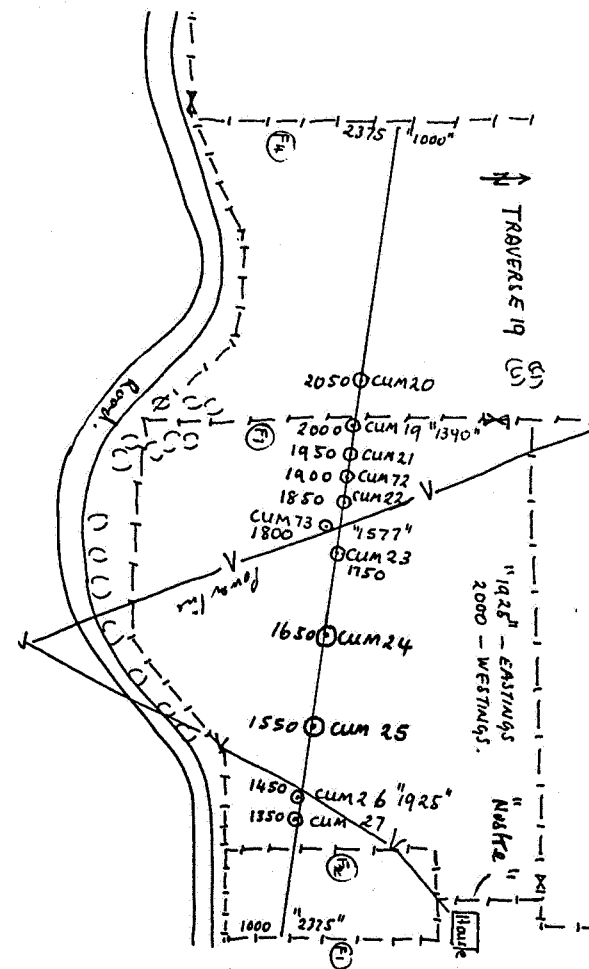
PROJECT NO. CUMMINS LOCATION UNGARRAPROFILE NO. 19, NOSKE ORIENTATION E → WOPERATOR J. JUST DATE 7/2/85PROFILE/REF. COORDINATES "19,000"BASE STATION NOS. (Start) 0, 1, 2.

BASE STATION NOS. (Finish)

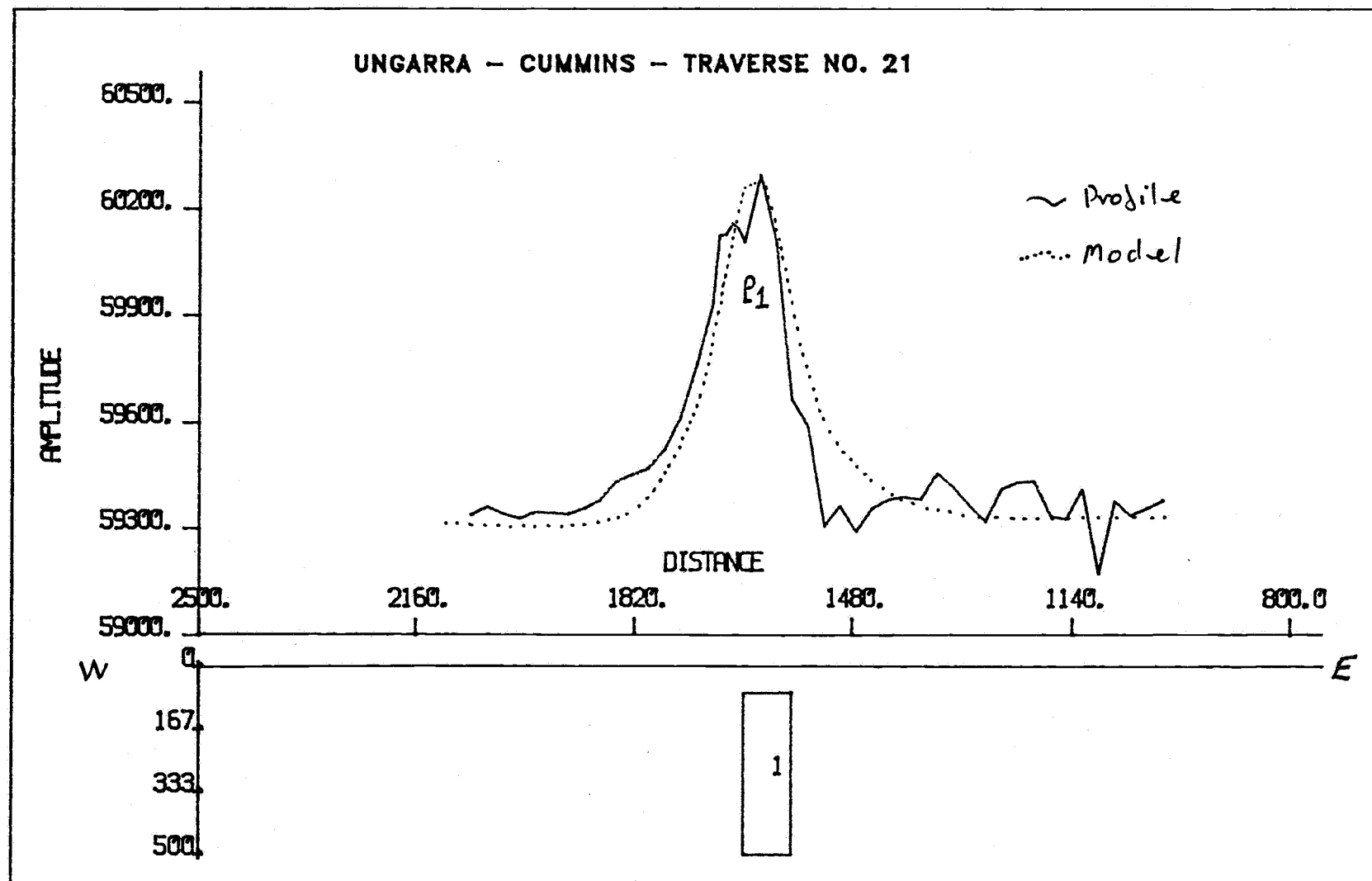
## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
1000	3	20	15m inside fence (1)
1325	12	"	11m W of fence (2)
1440	17	10m	
1650	38	20m.	
1670	39	20m.	
1710	40	20m.	
1790	48	10m	
2000	58	"	Fence (3)
2080	68	20m	
2230	79	"	EOT. near fence (4).

REMARKS:

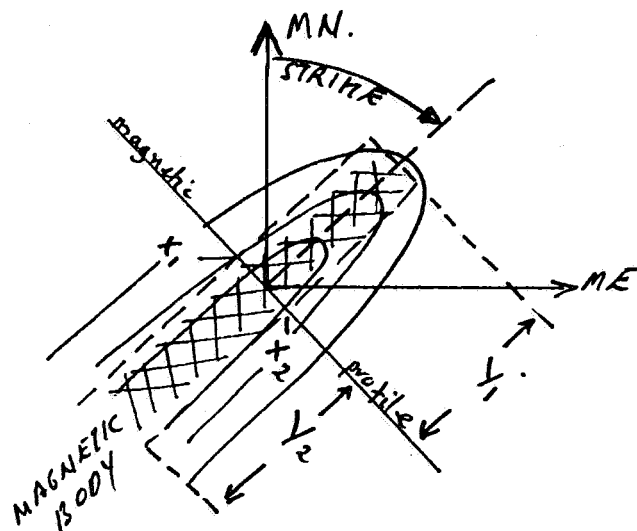
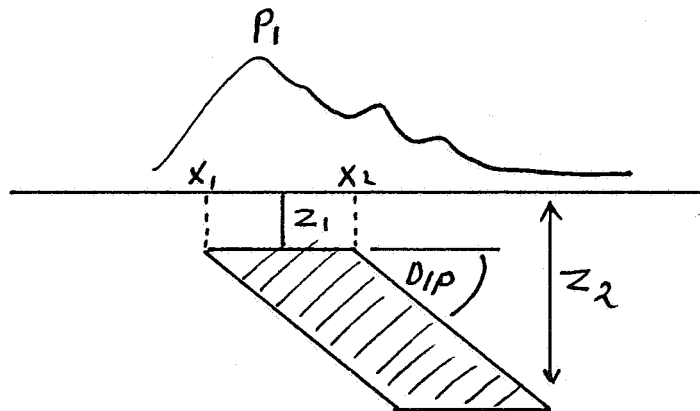
Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;

\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc.,



PROFILE NO: 21      LOCATION: UNGARRA-CUMMINIS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1065				
X <sub>2</sub>	1675				
Y <sub>1</sub> strike	-500				
Y <sub>2</sub>	+500				
Z <sub>1</sub> Depth	70				
Z <sub>2</sub> Thich	500				
Sucept.	0.01				
DIP	90°				
STRIKE	20°				



## UNGARRA - CUMMINS - TRAVERSE NO 21.

1000.	21000.	59379.0
1025.	21000.	59356.0
1050.	21000.	59336.0
1075.	21000.	59377.0
1100.	21000.	59171.0
1125.	21000.	59411.0
1150.	21000.	59325.0
1175.	21000.	59335.0
1200.	21000.	59433.0
1225.	21000.	59429.0
1250.	21000.	59410.0
1275.	21000.	59318.0
1300.	21000.	59364.0
1325.	21000.	59418.0
1350.	21000.	59457.0
1375.	21000.	59380.0
1400.	21000.	59387.0
1425.	21000.	59381.0
1450.	21000.	59356.0
1475.	21000.	59289.0
1500.	21000.	59362.0
1525.	21000.	59304.0
1550.	21000.	59587.0
1575.	21000.	59663.0
1600.	21000.	60104.0
1625.	21000.	60297.0
1650.	21000.	60105.0
1660.	21000.	60144.0
1670.	21000.	60160.0
1680.	21000.	60127.0
1690.	21000.	60125.0
1700.	21000.	59934.0
1725.	21000.	59761.0
1750.	21000.	59612.0
1775.	21000.	59522.0
1800.	21000.	59469.0
1825.	21000.	59451.0
1850.	21000.	59429.0
1875.	21000.	59379.0
1900.	21000.	59355.0
1925.	21000.	59339.0
1950.	21000.	59343.0
1975.	21000.	59345.0
2000.	21000.	59327.0
2025.	21000.	59342.0
2050.	21000.	59360.0
2075.	21000.	59338.0

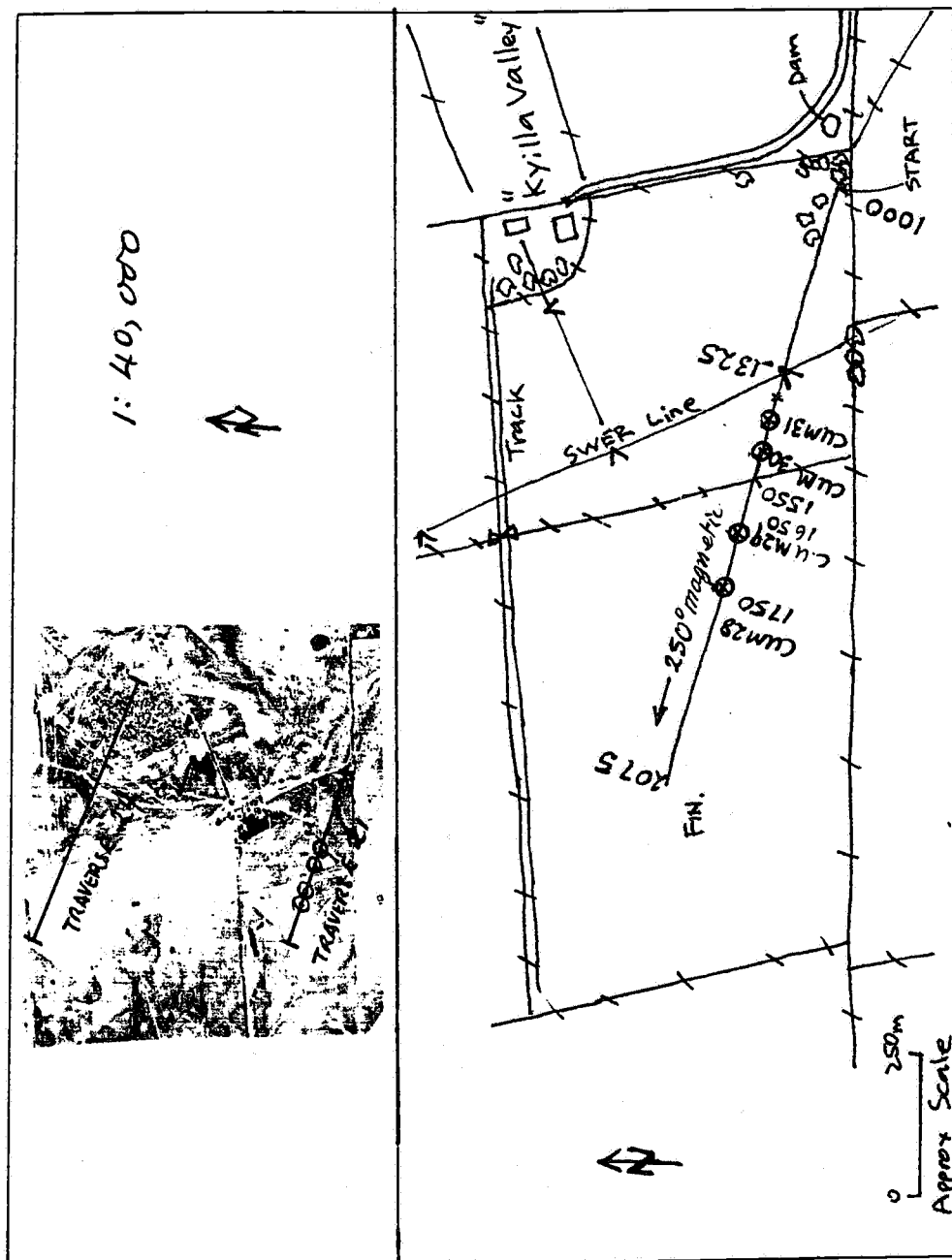
PROJECT NO. 5428 LOCATION KYILLA VALLEYPROFILE NO. 21 ORIENTATION SE → NW (285°)OPERATOR T. JUST DATE 17/3/85

PROFILE/REF. COORDINATES \_\_\_\_\_

BASE STATION NOS. (Start) 248, 249, 250 START 251BASE STATION NOS. (Finish) 310, 311, 312

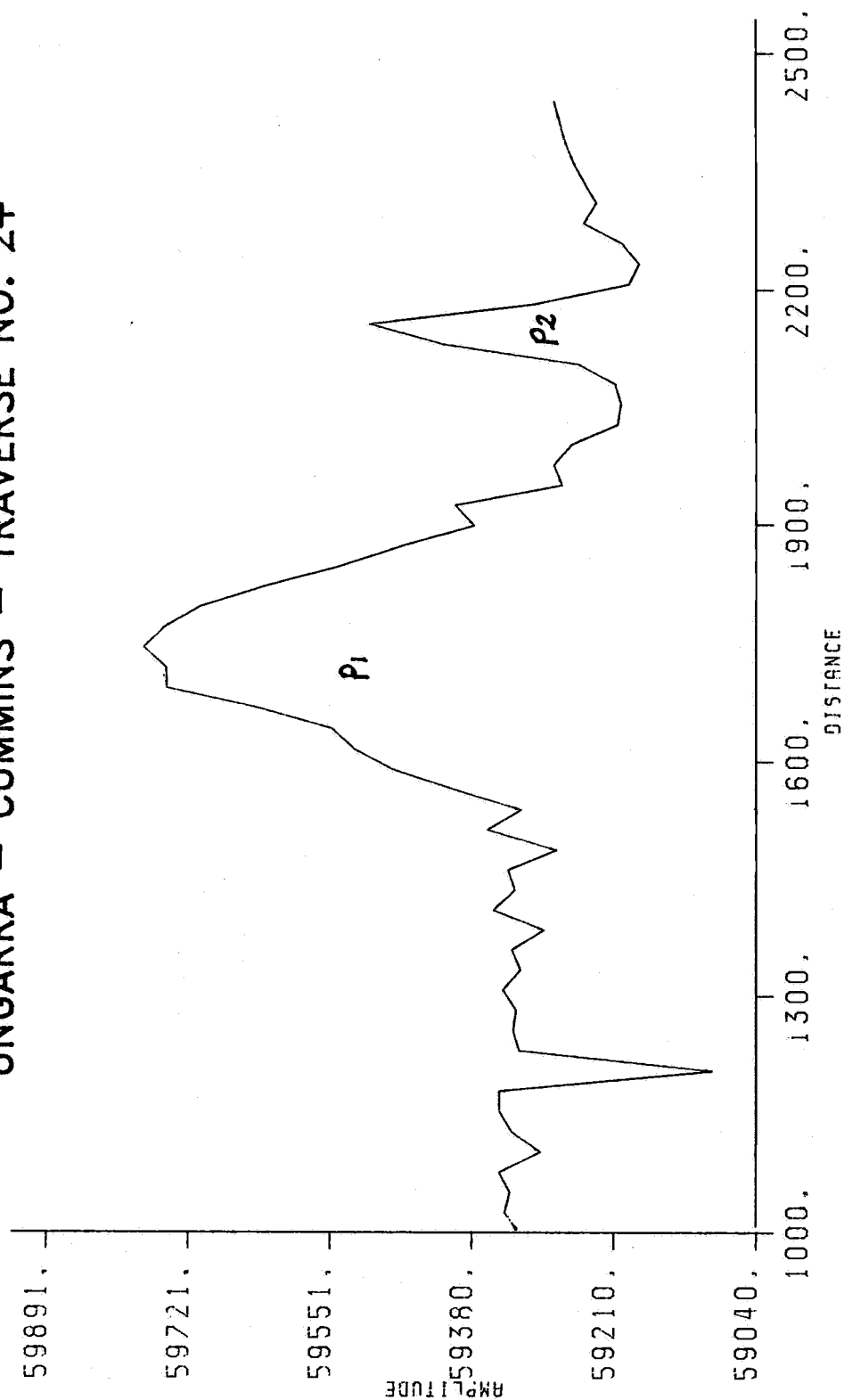
## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
1000 m	251	25	START. Tree in paddock corner.
~1325m		"	Power pole
1550	273	"	Fence
1650	277	10m	change to 10m spg.
1700	282	25m	Spg. back to 25m.
2200 ?	298	"	End.

REMARKS: Power pole tagged 1325mFence tagged 1573mCUM 30 1550m, CUM 31 1450mPeak 1650mCassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;

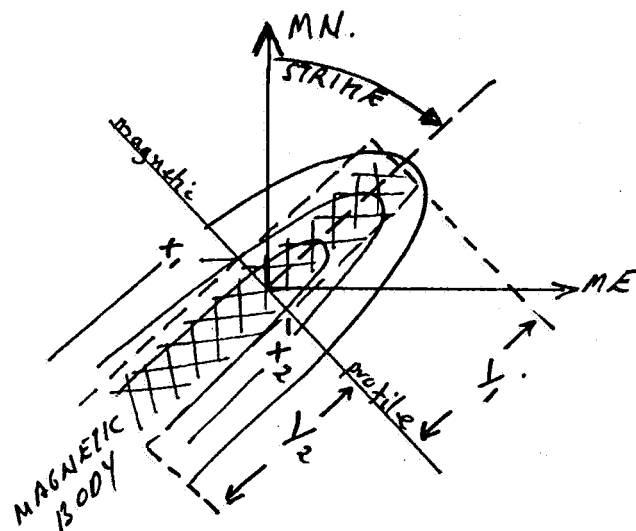
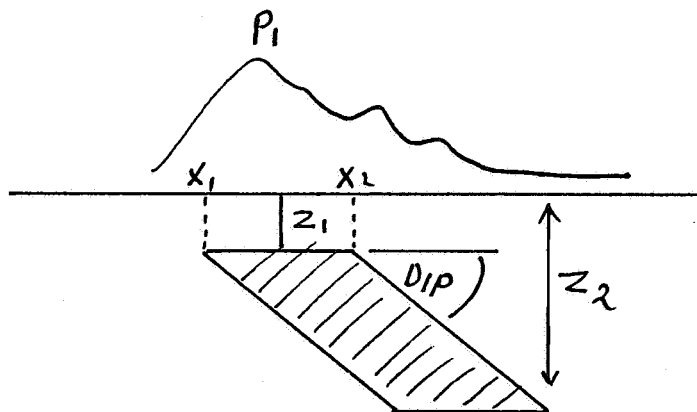
\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc.,

# UNGARRA - CUMMINS - TRAVERSE NO. 24



PROFILE NO: 24 LOCATION: KYILLA-UNGARRA-CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1226	2130			
X <sub>2</sub>	1855	2183			
Y <sub>1</sub> strike	—	—			
Y <sub>2</sub>	—	—			
Z <sub>1</sub> Depth	45	35			
Z <sub>2</sub> Thick	—	—			
Sucept.	—	—			
Dip.	RULE OF THUMB				
STRIKE	ESTIMATES ONLY				



PROJECT NO. 5428

LOCATION KYILLA VALLEY

PROFILE NO. 24

ORIENTATION NW  $\rightarrow$  SE BRG.  $104^{\circ}$

OPERATOR T. JUST

DATE 1/5/85

PROFILE/REF. COORDINATES See \*

BASE STATION NOS. (Start) 58, 59, 60 START 61

BASE STATION NOS. (Finish) 118, 119, 120 FIN. 117.

[illegible]REMARKS: Metal tag at 365m.

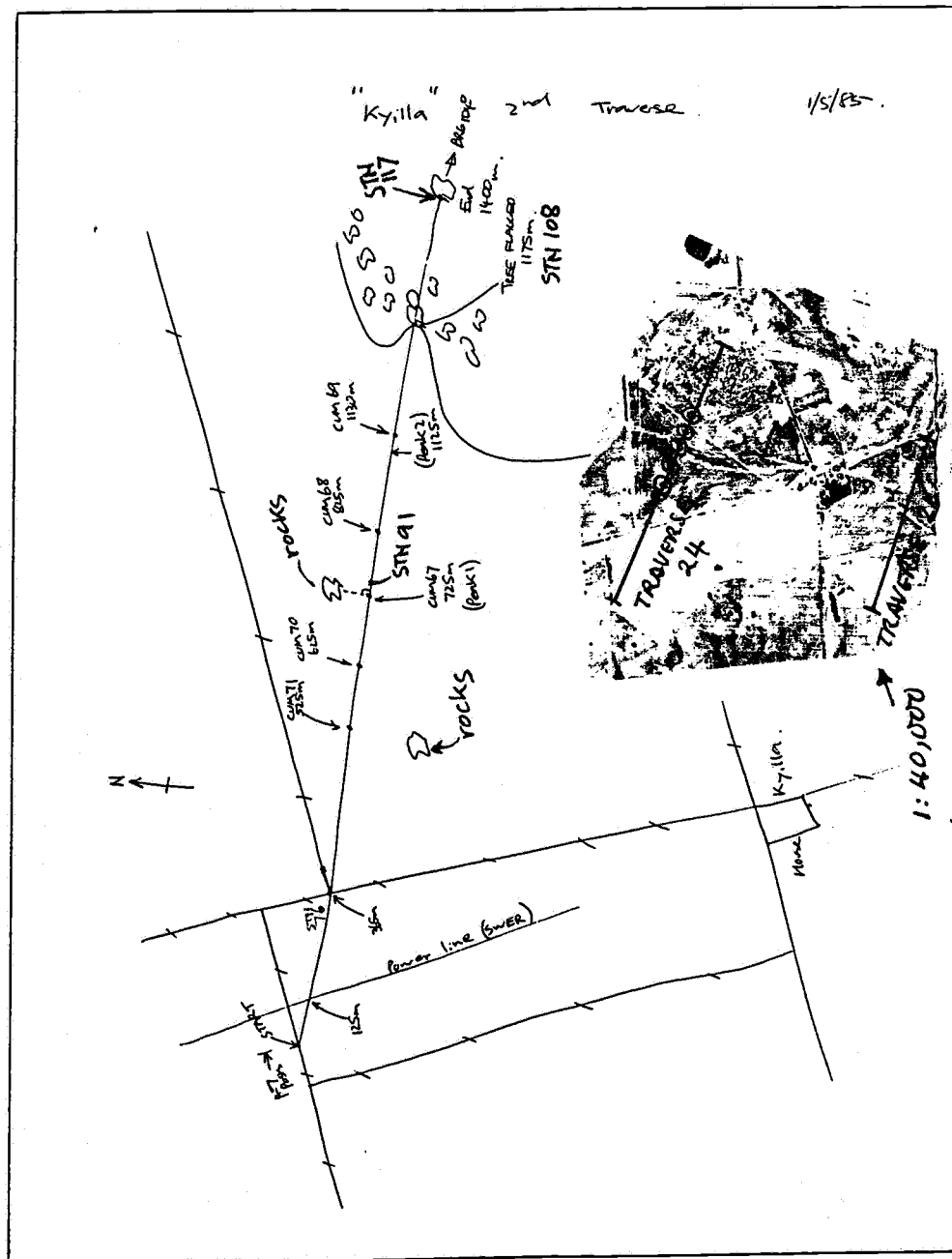
Peak<sub>1</sub> (Max) 725m (1725m)

Peak 2 1125m (2125m)

\* Raw data lost due to computing problem.

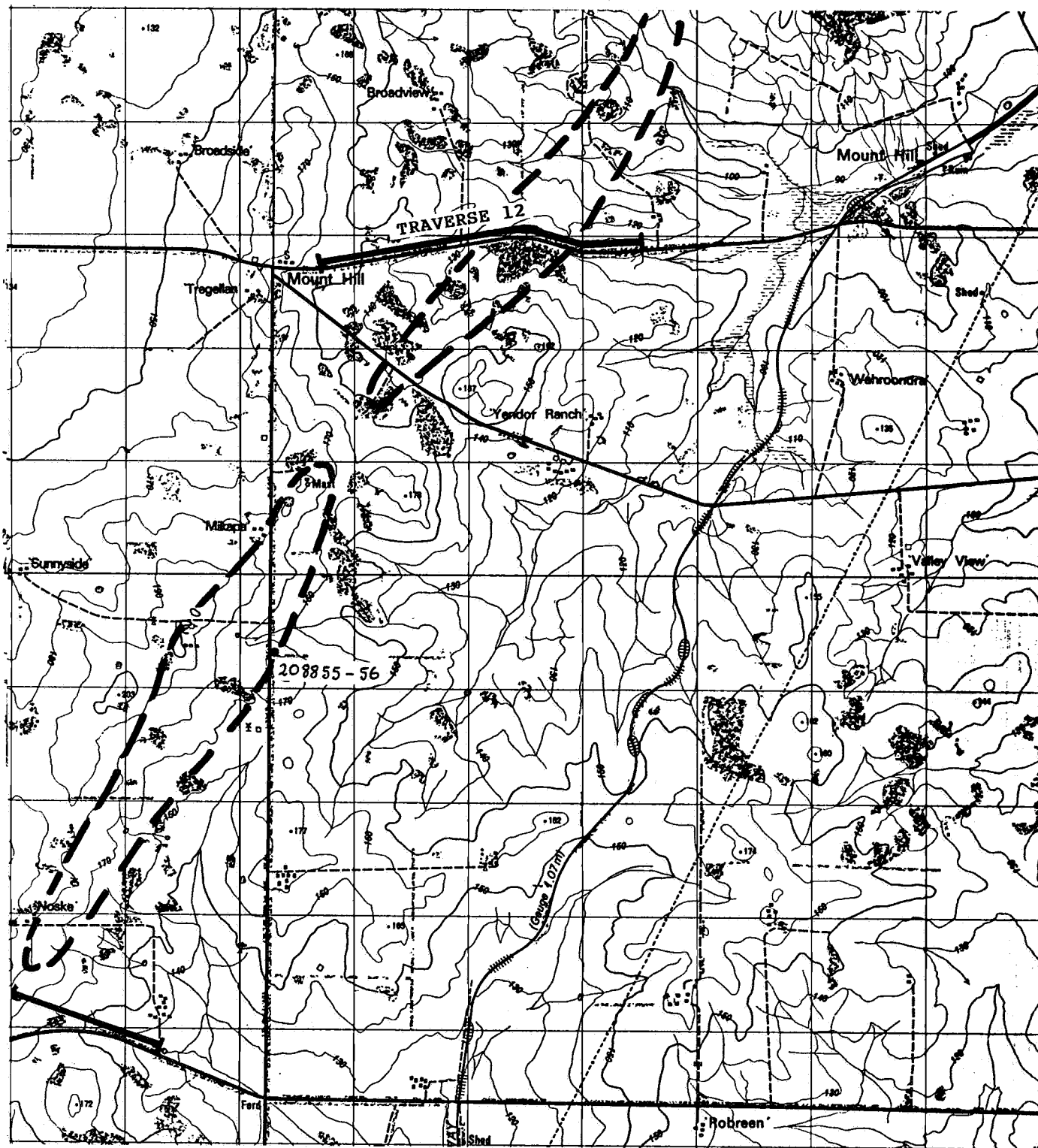
Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;

VAX File: CUMMINS.DAT;



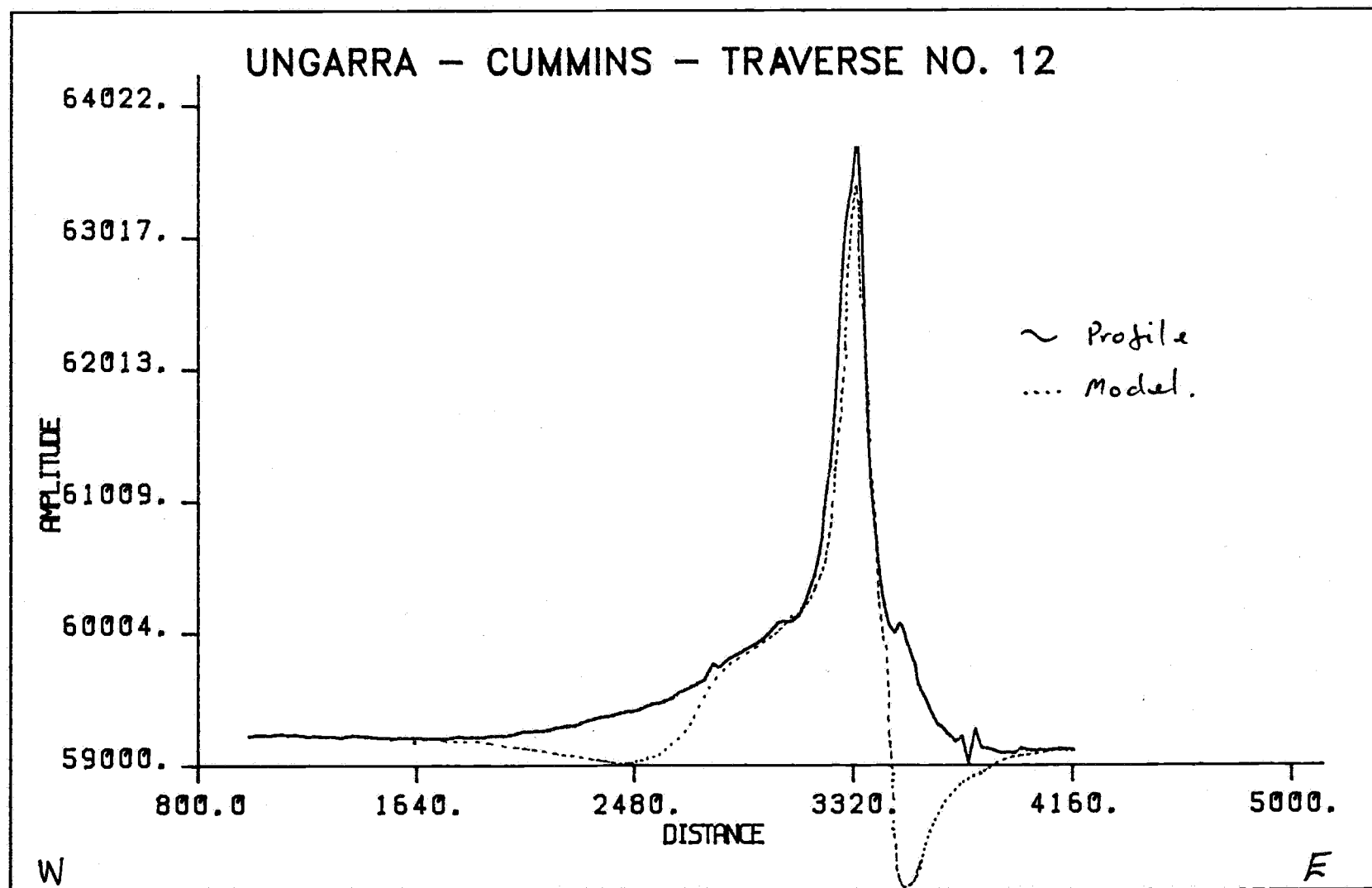
\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc.,





1: 50,000

UNGARRA - CUMMINS  
GROUND MAGNETIC PROFILES  
TRAVERSES 12 AND 19

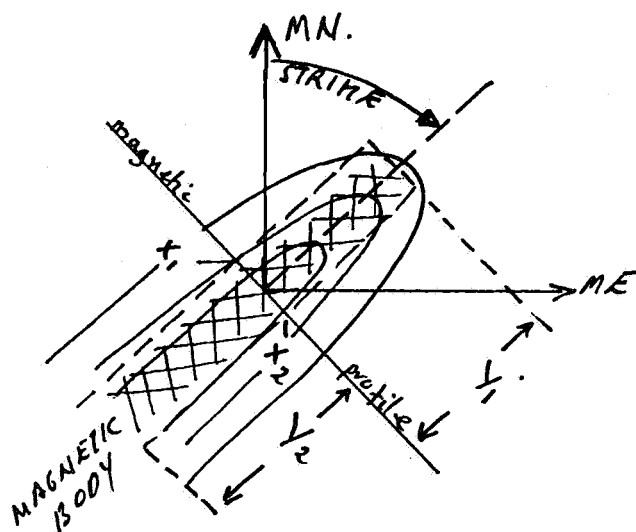
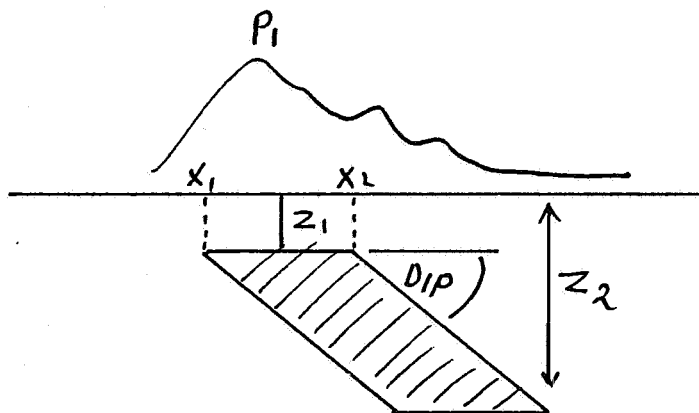


MODEL PARAMETERS.

135

PROFILE NO: 12 LOCATION: UNGARRA-CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	3325				
X <sub>2</sub>	3500				
Y <sub>1</sub> strike	-1000				
Y <sub>2</sub>	+1000				
Z <sub>1</sub> Depth	10				
Z <sub>2</sub> Thich	300				
Sucept.	0.04				
Dip.	160°				
STRIKE	5°				



1000.	12000.	59230.8
1025.	12000.	59237.1
1050.	12000.	59234.0
1075.	12000.	59236.9
1100.	12000.	59239.8
1125.	12000.	59244.1
1150.	12000.	59234.2
1175.	12000.	59238.5
1200.	12000.	59231.0
1225.	12000.	59226.6
1250.	12000.	59228.6
1275.	12000.	59225.7
1300.	12000.	59225.4
1325.	12000.	59224.9
1350.	12000.	59217.0
1375.	12000.	59229.5
1400.	12000.	59232.9
1425.	12000.	59231.2
1450.	12000.	59225.4
1475.	12000.	59222.2
1500.	12000.	59217.6
1525.	12000.	59214.3
1550.	12000.	59212.5
1575.	12000.	59214.0
1600.	12000.	59213.7
1625.	12000.	59216.1
1650.	12000.	59214.0
1675.	12000.	59211.4
1700.	12000.	59212.5
1725.	12000.	59209.2
1750.	12000.	59208.7
1775.	12000.	59217.8
1800.	12000.	59225.5
1825.	12000.	59216.6
1850.	12000.	59219.4
1875.	12000.	59218.9
1900.	12000.	59222.1
1925.	12000.	59229.9
1950.	12000.	59228.4
1975.	12000.	59232.2
2000.	12000.	59236.6
2025.	12000.	59248.3
2050.	12000.	59263.6
2075.	12000.	59264.0
2100.	12000.	59266.8
2125.	12000.	59269.7
2150.	12000.	59278.3
2175.	12000.	59291.0
2200.	12000.	59298.8
2225.	12000.	59306.8
2250.	12000.	59308.3
2275.	12000.	59329.9
2300.	12000.	59343.9
2325.	12000.	59361.8
2350.	12000.	59373.4
2375.	12000.	59380.7
2400.	12000.	59387.7

UMGARRA - CUMMINS

TRAVERSE NO 12. P1.

2425.	12000.	59403.1
2450.	12000.	59415.0
2475.	12000.	59416.6
2500.	12000.	59432.0
2525.	12000.	59455.4
2550.	12000.	59473.0
2575.	12000.	59480.5
2600.	12000.	59500.8
2625.	12000.	59518.4
2650.	12000.	59559.6
2675.	12000.	59580.0
2700.	12000.	59605.6
2725.	12000.	59634.2
2750.	12000.	59657.0
2760.	12000.	59703.8
2770.	12000.	59736.0
2780.	12000.	59778.4
2790.	12000.	59768.0
2800.	12000.	59751.8
2810.	12000.	59756.2
2820.	12000.	59774.0
2830.	12000.	59793.8
2840.	12000.	59809.6
2850.	12000.	59822.4
2860.	12000.	59832.8
2870.	12000.	59842.5
2880.	12000.	59852.9
2890.	12000.	59862.4
2900.	12000.	59875.0
2910.	12000.	59888.6
2920.	12000.	59899.6
2930.	12000.	59909.2
2940.	12000.	59919.7
2950.	12000.	59931.3
2960.	12000.	59943.6
2970.	12000.	59957.5
2980.	12000.	59974.8
2990.	12000.	59996.1
3000.	12000.	60017.1
3010.	12000.	60037.6
3020.	12000.	60059.0
3030.	12000.	60081.2
3040.	12000.	60093.2
3050.	12000.	60096.6
3060.	12000.	60096.2
3070.	12000.	60092.0
3080.	12000.	60095.6
3090.	12000.	60102.7
3100.	12000.	60121.5

## UN GARRA - CUMMINS

TRAVERSE NO 12  
P2

3110. 12000. 60139.2  
 3120. 12000. 60179.7  
 3130. 12000. 60222.9  
 3140. 12000. 60270.8  
 3150. 12000. 60320.4  
 3160. 12000. 60380.9  
 3170. 12000. 60449.0  
 3180. 12000. 60526.5  
 3190. 12000. 60619.5  
 3200. 12000. 60736.6  
 3210. 12000. 60961.9  
 3220. 12000. 61111.8  
 3230. 12000. 61276.4  
 3240. 12000. 61476.4  
 3250. 12000. 61737.7  
 3260. 12000. 62061.6  
 3270. 12000. 62457.2  
 3280. 12000. 62819.4  
 3290. 12000. 63116.6  
 3300. 12000. 63261.8  
 3310. 12000. 63365.9  
 3320. 12000. 63500.9  
 3330. 12000. 63696.8  
 3340. 12000. 63694.7  
 3350. 12000. 63277.5  
 3360. 12000. 62623.7  
 3370. 12000. 62005.1  
 3380. 12000. 61464.2  
 3390. 12000. 61135.2  
 3400. 12000. 60931.7  
 3410. 12000. 60686.6  
 3420. 12000. 60495.5  
 3430. 12000. 60353.0  
 3440. 12000. 60236.7  
 3450. 12000. 60144.7  
 3460. 12000. 60074.2  
 3470. 12000. 60038.2  
 3480. 12000. 60009.8  
 3490. 12000. 60049.1  
 3500. 12000. 60082.9  
 3510. 12000. 60061.3  
 3520. 12000. 60004.9  
 3530. 12000. 59934.1  
 3540. 12000. 59872.6  
 3550. 12000. 59813.1  
 3560. 12000. 59768.7  
 3570. 12000. 59632.3  
 3580. 12000. 59587.8  
 3590. 12000. 59548.4  
 3600. 12000. 59498.0

3610. 12000. 59459.7  
 3620. 12000. 59408.4  
 3630. 12000. 59376.6  
 3640. 12000. 59334.3  
 3650. 12000. 59306.1  
 3660. 12000. 59295.8  
 3670. 12000. 59273.8  
 3680. 12000. 59248.2  
 3690. 12000. 59232.9  
 3715. 12000. 59184.6  
 3740. 12000. 59219.3  
 3765. 12000. 59021.5  
 3790. 12000. 59278.0  
 3815. 12000. 59135.6  
 3840. 12000. 59123.3  
 3865. 12000. 59112.2  
 3890. 12000. 59093.1  
 3915. 12000. 59097.3  
 3940. 12000. 59091.2  
 3965. 12000. 59128.8  
 3990. 12000. 59113.1  
 4015. 12000. 59111.1  
 4040. 12000. 59113.3  
 4065. 12000. 59110.1  
 4090. 12000. 59118.0  
 4115. 12000. 59127.1  
 4140. 12000. 59119.2  
 4165. 12000. 59114.3

PROJECT NO. CUMMINS LOCATION UNGARRAPROFILE NO. 12 Mt Hill ORIENTATION W → EOPERATOR N. Blake DATE 21/8/85PROFILE/REF. COORDINATES "12,000"

BASE STATION NOS. (Start) \_\_\_\_\_

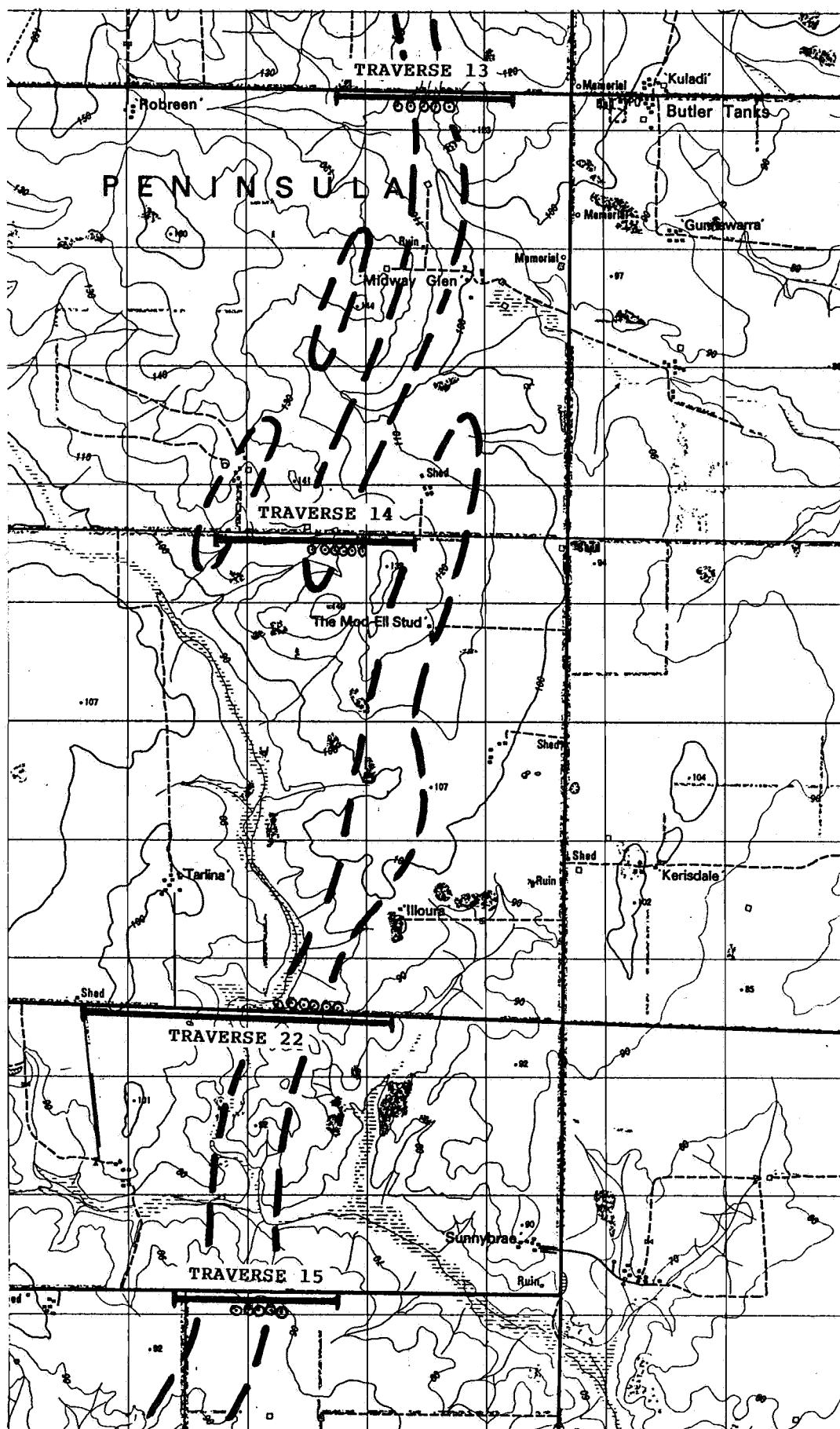
BASE STATION NOS. (Finish) \_\_\_\_\_

## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
1000	0	25m	Yellow, school limit sign
1350	14	"	power line ahead, gate, yellow EOLs
	37	"	Mid pt., 2 yellow EOLs, N.H.
	50	"	Yellow EOLs, Tanks, Nth side
2745	59	"	"Board view" sign, road, N. Side
2750	70	10m	Dip ~ creek, before bend.
	115	"	(road cap changes white to brown)
3330	128	"	small road side clearing to E
	151	"	Track to north, quarry to north.
3690	165	25m	Yellow EOLs arrive peak, N.
4165	183	"	EOT, Access track to "One Oak"

REMARKS: This line was run to establish the trend of the Ungarra anomaly within the little area.

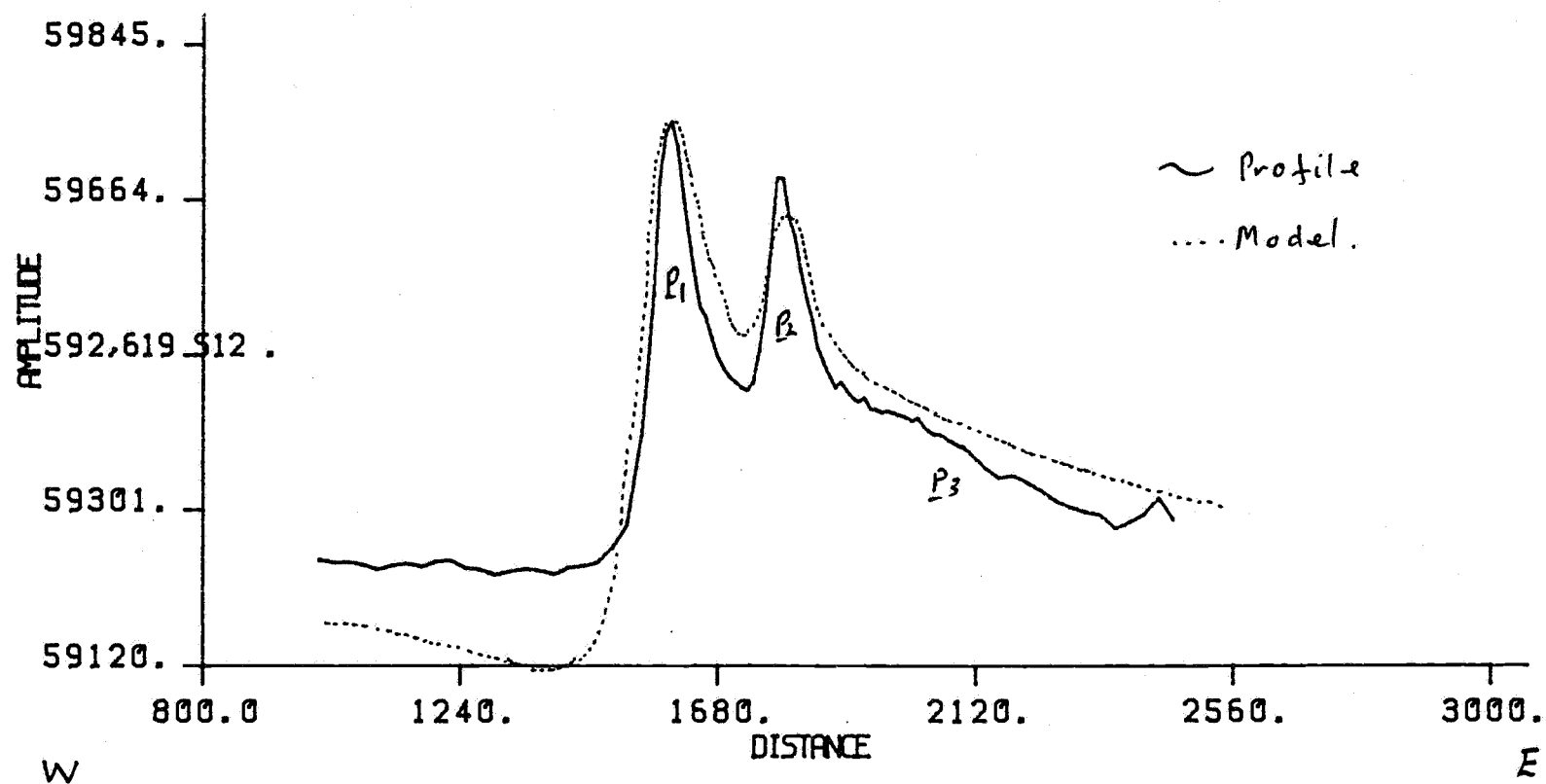
1: 40,000



1: 50,000

BUTLER - CUMMINS  
GROUND MAGNETIC AND DRILLING PROFILES  
TRAVERSES 13, 14, 15 & 22

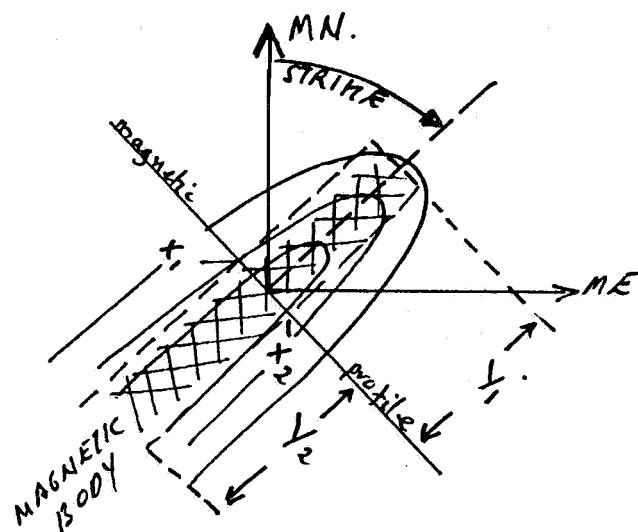
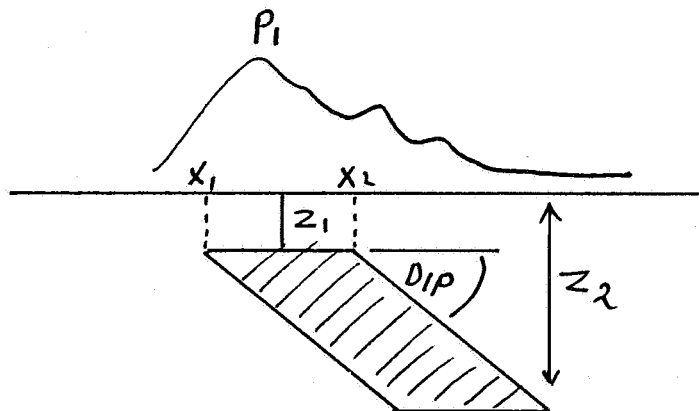
# BUTLER - CUMMINS - TRAVERSE NO. 13





PROFILE NO: 13 LOCATION: BUTLER-CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1525	1775	1800		
X <sub>2</sub>	1625	1800	2000		
Y <sub>1</sub> strike	-1000	-1000	-10,000		
Y <sub>2</sub>	+1000	+1000	+10,000		
Z <sub>1</sub> Depth	62	50	300		
Z <sub>2</sub> Thick	500	500	5000		
Sucept.	0.006	0.006	0.005		
Dip	60°	70°	50°		
STRIKE	5°	5°	5°		



## BUTLER - CUMMINS

## TRAVERSE 13.

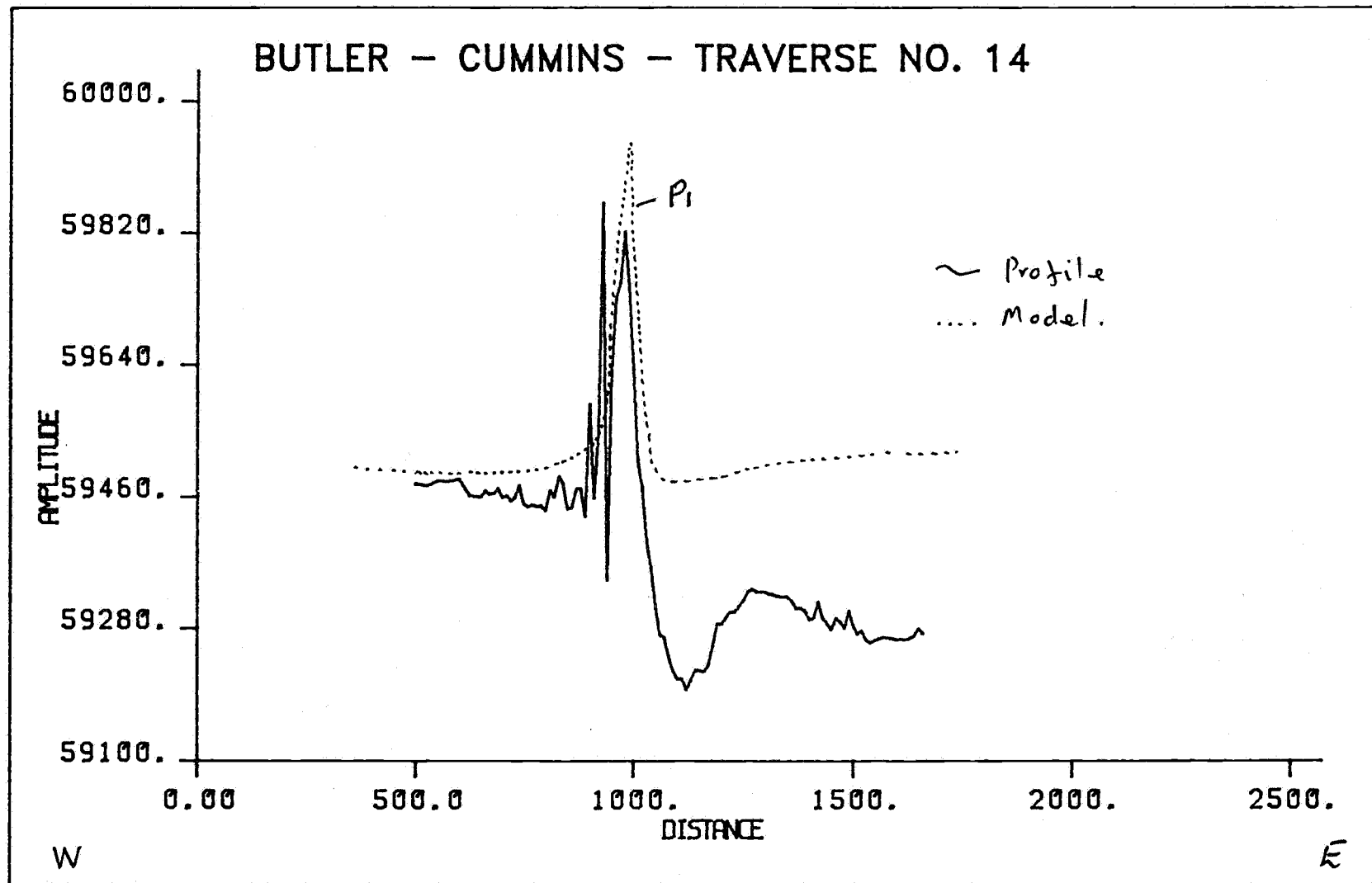
1000.	13000.	59244.1			
1025.	13000.	59240.5			
1050.	13000.	59241.2			
1075.	13000.	59238.0			
1100.	13000.	59232.7			
1125.	13000.	59237.4			
1150.	13000.	59239.5			
1175.	13000.	59236.3			
1200.	13000.	59242.2			
1225.	13000.	59243.1			
1250.	13000.	59233.9			
1275.	13000.	59232.5			
1300.	13000.	59226.5			
1325.	13000.	59230.3			
1350.	13000.	59233.5			
1375.	13000.	59231.6			
1400.	13000.	59227.4			
1425.	13000.	59235.1			
1450.	13000.	59237.2			
1475.	13000.	59241.2			
1500.	13000.	59258.5			
1525.	13000.	59284.8			
1550.	13000.	59391.1			
1560.	13000.	59465.8			
1570.	13000.	59554.9			
1580.	13000.	59686.7			
1590.	13000.	59740.3			
1600.	13000.	59754.5			
1610.	13000.	59724.4			
1620.	13000.	59667.3			
1630.	13000.	59617.5			
1640.	13000.	59571.2			
1650.	13000.	59537.8			
1660.	13000.	59525.5			
1670.	13000.	59501.4			
1680.	13000.	59479.8			
1690.	13000.	59466.0			
1700.	13000.	59456.5			
1710.	13000.	59450.4			
1720.	13000.	59443.5			
1730.	13000.	59440.7			
1740.	13000.	59450.1			
1750.	13000.	59486.4			
1760.	13000.	59536.3			
1770.	13000.	59612.4			
1780.	13000.	59688.6			
1790.	13000.	59688.2			
1800.	13000.	59642.4			
			1810.	13000.	59619.5
			1820.	13000.	59580.2
			1830.	13000.	59547.8
			1840.	13000.	59522.3
			1850.	13000.	59489.7
			1860.	13000.	59472.7
			1870.	13000.	59457.6
			1880.	13000.	59443.2
			1890.	13000.	59450.2
			1900.	13000.	59439.6
			1910.	13000.	59431.7
			1920.	13000.	59428.2
			1930.	13000.	59432.5
			1940.	13000.	59418.1
			1950.	13000.	59418.2
			1960.	13000.	59415.2
			1970.	13000.	59416.7
			1980.	13000.	59413.7
			1990.	13000.	59411.0
			2000.	13000.	59409.9
			2010.	13000.	59404.7
			2020.	13000.	59409.1
			2030.	13000.	59398.2
			2040.	13000.	59393.0
			2050.	13000.	59389.3
			2060.	13000.	59388.5
			2070.	13000.	59383.5
			2080.	13000.	59379.9
			2090.	13000.	59376.0
			2100.	13000.	59374.1
			2110.	13000.	59367.2
			2135.	13000.	59350.9
			2160.	13000.	59339.2
			2185.	13000.	59341.5
			2210.	13000.	59332.5
			2235.	13000.	59323.2
			2260.	13000.	59311.2
			2285.	13000.	59304.1
			2310.	13000.	59299.4
			2335.	13000.	59295.3
			2360.	13000.	59280.1
			2385.	13000.	59288.0
			2410.	13000.	59297.3
			2435.	13000.	59316.7
			2460.	13000.	59290.1

BASE STATION NOS. (Finish)

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT

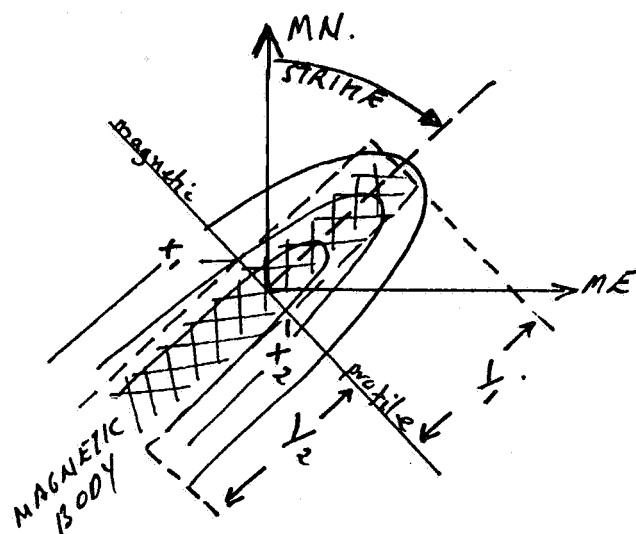
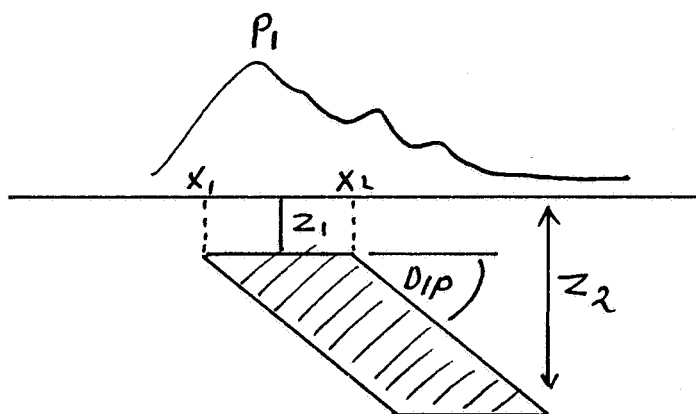
\*NB: Landmarks, Stn. Nos., Distances, orientation, scale,  
peak values etc.,





MODEL PARAMETERS.PROFILE NO: 14 LOCATION: BUTLER - CUMMINS

ANOMALY	$P_1$	$P_2$	$P_3$	$P_4$	$P_5$
$X_1$ width	995				
$X_2$	1010				
$Y_1$ strike	-1000				
$Y_2$	+1000				
$Z_1$ Depth	20				
$Z_2$ Thich	400				
Sucept.	0.008				
Dip.	$120^\circ$				
STRIKE	S.P				



0\$ TYPE CUMOIA.DAT

BUTLER - CUMMINS

TRAVERSE NO 14.

500.	14000.	59477.4
525.	14000.	59475.0
550.	14000.	59482.3
575.	14000.	59481.0
600.	14000.	59484.8
625.	14000.	59461.4
650.	14000.	59459.9
660.	14000.	59468.8
670.	14000.	59463.8
680.	14000.	59464.9
690.	14000.	59472.0
700.	14000.	59459.0
710.	14000.	59462.2
720.	14000.	59454.0
730.	14000.	59460.1
740.	14000.	59475.9
750.	14000.	59450.0
760.	14000.	59446.6
770.	14000.	59449.3
780.	14000.	59447.2
790.	14000.	59448.8
800.	14000.	59440.9
810.	14000.	59469.6
820.	14000.	59459.8
830.	14000.	59488.9
840.	14000.	59477.2
850.	14000.	59443.7
860.	14000.	59445.7
870.	14000.	59471.9
880.	14000.	59471.5
890.	14000.	59433.0
900.	14000.	59587.6
910.	14000.	59457.6
920.	14000.	59547.3
930.	14000.	59861.9
940.	14000.	59346.7
950.	14000.	59630.8
960.	14000.	59729.8
970.	14000.	59751.1
980.	14000.	59823.0
990.	14000.	59746.1
1000.	14000.	59635.1
1010.	14000.	59508.6
1020.	14000.	59472.3
1030.	14000.	59399.2
1040.	14000.	59362.7
1050.	14000.	59311.5
1060.	14000.	59271.6
1070.	14000.	59267.8
1080.	14000.	59242.8
1090.	14000.	59223.0
1100.	14000.	59211.4
1110.	14000.	59212.7
1120.	14000.	59197.0
1130.	14000.	59210.4
1140.	14000.	59224.6
1150.	14000.	59223.3
1160.	14000.	59221.6
1170.	14000.	59231.5
1180.	14000.	59257.4
1190.	14000.	59287.5
1200.	14000.	59286.5

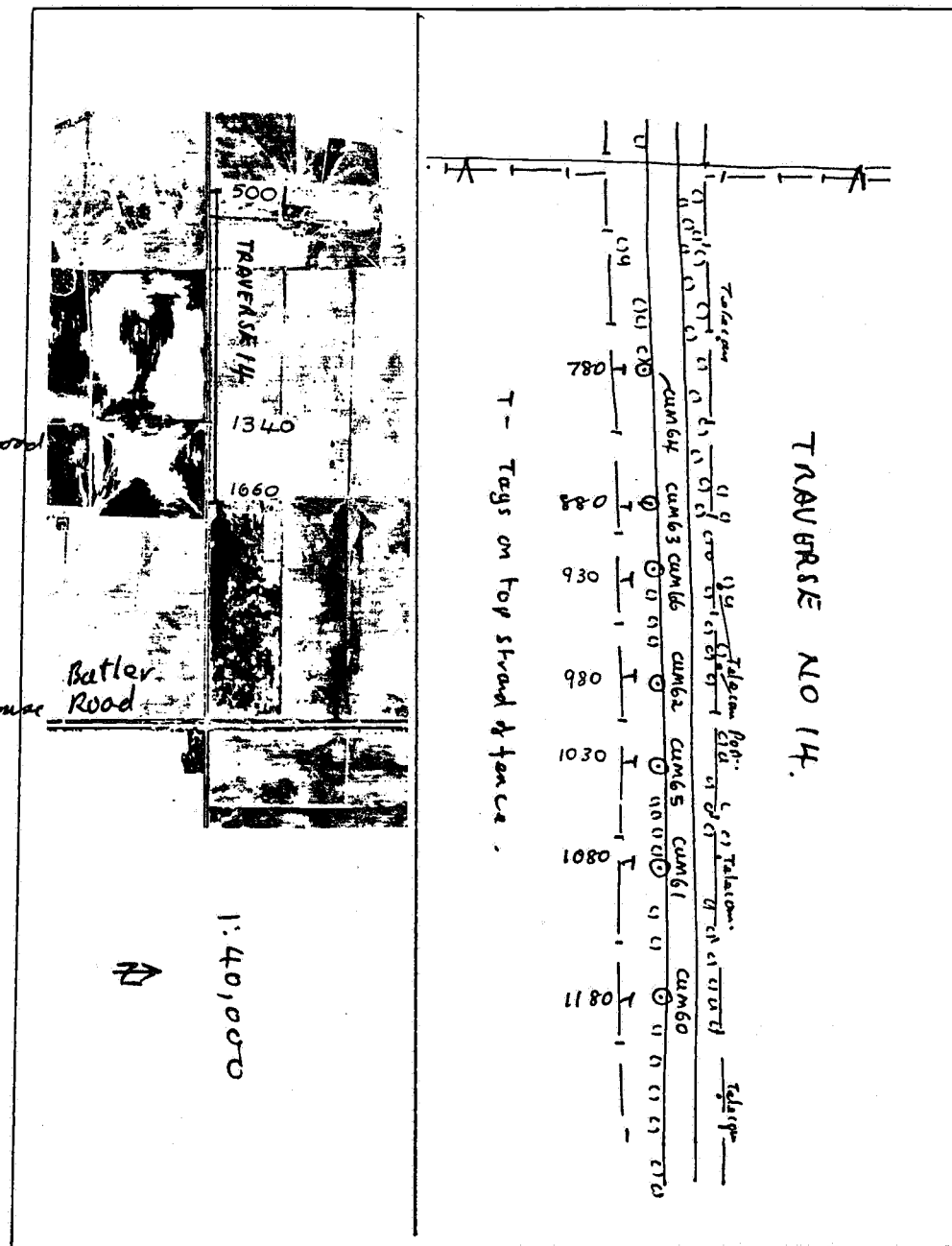
1210.	14000.	59295.7
1220.	14000.	59303.5
1230.	14000.	59302.5
1240.	14000.	59311.3
1250.	14000.	59318.6
1260.	14000.	59331.1
1270.	14000.	59334.0
1280.	14000.	59329.7
1290.	14000.	59329.7
1300.	14000.	59330.4
1310.	14000.	59327.2
1320.	14000.	59326.1
1330.	14000.	59324.1
1340.	14000.	59323.0
1350.	14000.	59323.7
1360.	14000.	59318.0
1370.	14000.	59307.7
1380.	14000.	59308.5
1390.	14000.	59304.4
1400.	14000.	59292.0
1410.	14000.	59295.2
1420.	14000.	59316.9
1430.	14000.	59295.0
1440.	14000.	59287.0
1450.	14000.	59278.9
1460.	14000.	59294.9
1470.	14000.	59290.1
1480.	14000.	59281.3
1490.	14000.	59305.4
1500.	14000.	59284.4
1510.	14000.	59272.4
1520.	14000.	59277.4
1530.	14000.	59263.6
1540.	14000.	59261.5
1550.	14000.	59265.2
1560.	14000.	59267.1
1570.	14000.	59269.0
1580.	14000.	59268.7
1590.	14000.	59267.3
1600.	14000.	59265.8
1610.	14000.	59266.7
1620.	14000.	59265.7
1630.	14000.	59267.7
1640.	14000.	59271.1
1650.	14000.	59280.9
1660.	14000.	59274.2

PROJECT NO. CUMMINS LOCATION BUTLERPROFILE NO. 14, Pfitzners Rd. ORIENTATION W → E → WOPERATOR N. Blalie DATE 21/1/85PROFILE/REF. COORDINATES "14 000"BASE STATION NOS. (Start) —BASE STATION NOS. (Finish) —

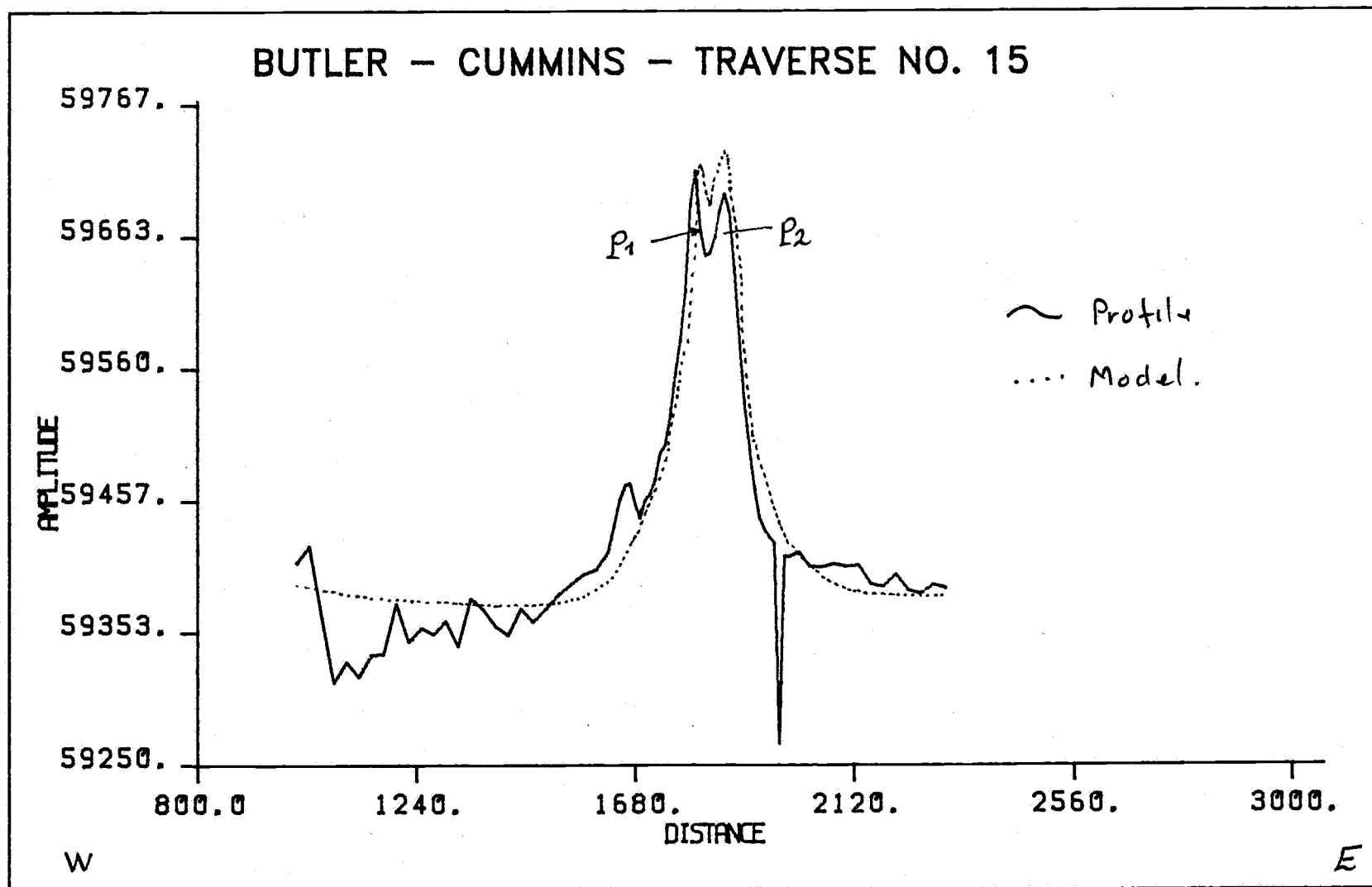
## TRAVERSE DETAILS:-

COORDINATE	STATION NO.	SPACING	LANDMARK
1340	277	10m	Green post/del fence to south, w/fern wood
	283	"	Yellow Telecom post
	289	"	" " "
	311	"	New fence, green posts
	314	"	Yellow Telecom post
	329	"	" " "
1660	343	"	" " " EOT, Track to house
1340	344	10m	as for 277, head "west"
	374	"	2nd ridge, 3 trees S, 1 tree N.
650	379	25m	
	381	"	Yellow Telecom post N.
500	385	"	EOT, Power line overhead.

REMARKS:

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;

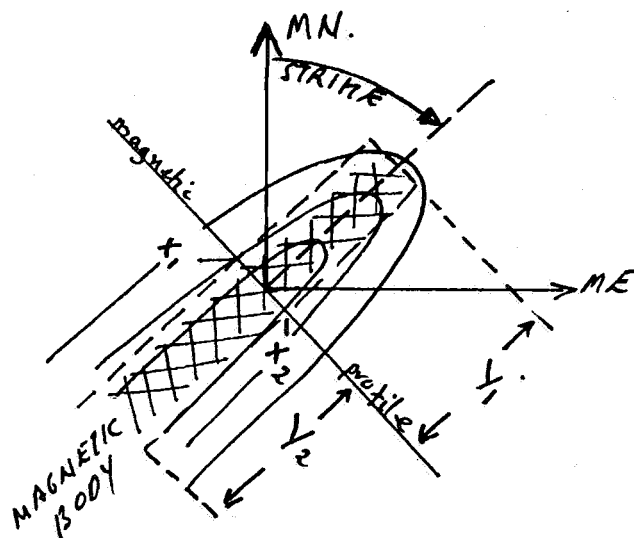
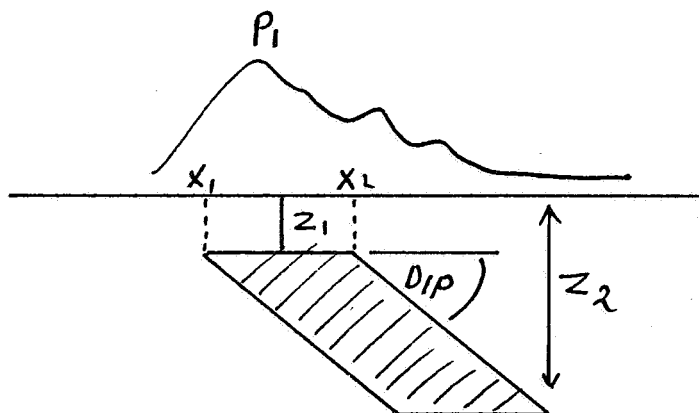
\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc..





PROFILE NO: 15 LOCATION: BUTLER - CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	1775	1840			
X <sub>2</sub>	1790	1865			
Y <sub>1</sub> strike	-1000	-1000			
Y <sub>2</sub>	1000	1000			
Z <sub>1</sub> Depth	45	50			
Z <sub>2</sub> Thick	500	500			
Sucept.	0.01	0.08			
Dip.	110°	80°			
STRIKE	5°	5°			



## BUTLER - CUMMINS - TRAVERSE NO 15.

1000.	15000.	59408.0			
1025.	15000.	59421.4			
1050.	15000.	59364.9			
1075.	15000.	59314.6			
1100.	15000.	59330.6			
1125.	15000.	59319.0			
1150.	15000.	59336.1			
1175.	15000.	59336.9			
1200.	15000.	59376.7			
1225.	15000.	59346.3			
1250.	15000.	59357.2			
1275.	15000.	59352.1			
1300.	15000.	59363.1			
1325.	15000.	59342.9			
1350.	15000.	59380.4			
1375.	15000.	59371.5			
1400.	15000.	59358.4			
1425.	15000.	59351.5			
1450.	15000.	59372.5			
1475.	15000.	59362.0			
1500.	15000.	59372.3			
1525.	15000.	59383.3			
1550.	15000.	59391.4			
1575.	15000.	59399.2			
1600.	15000.	59403.0			
1625.	15000.	59417.1			
1650.	15000.	59458.6			
1660.	15000.	59469.0			
1670.	15000.	59470.1			
1680.	15000.	59454.3			
1690.	15000.	59443.1			
1700.	15000.	59457.6			
1710.	15000.	59462.3			
1720.	15000.	59473.7			
1730.	15000.	59494.4			
1740.	15000.	59500.1			
1750.	15000.	59523.2			
1760.	15000.	59555.3			
1770.	15000.	59582.6			
1780.	15000.	59620.5			
1790.	15000.	59690.1			
1800.	15000.	59715.8			
			1810.	15000.	59669.5
			1820.	15000.	59648.3
			1830.	15000.	59651.0
			1840.	15000.	59663.5
			1850.	15000.	59683.9
			1860.	15000.	59697.2
			1870.	15000.	59682.5
			1880.	15000.	59637.3
			1890.	15000.	59583.1
			1900.	15000.	59533.6
			1910.	15000.	59498.9
			1920.	15000.	59466.6
			1930.	15000.	59443.6
			1940.	15000.	59433.7
			1950.	15000.	59428.1
			1960.	15000.	59423.3
			1970.	15000.	59266.6
			1980.	15000.	59413.1
			1990.	15000.	59412.4
			2000.	15000.	59414.4
			2010.	15000.	59416.1
			2020.	15000.	59410.4
			2030.	15000.	59404.8
			2055.	15000.	59404.3
			2080.	15000.	59406.6
			2105.	15000.	59404.9
			2130.	15000.	59405.5
			2155.	15000.	59390.5
			2180.	15000.	59389.2
			2205.	15000.	59398.8
			2230.	15000.	59386.2
			2255.	15000.	59383.4
			2280.	15000.	59390.9
			2305.	15000.	59387.8

PROJECT NO. CUMMINS LOCATION BUTLER.PROFILE NO. 15, Liddi cat Rd ORIENTATION W → EOPERATOR N. Blahre DATE 22/8/85PROFILE/REF. COORDINATES "15,000"

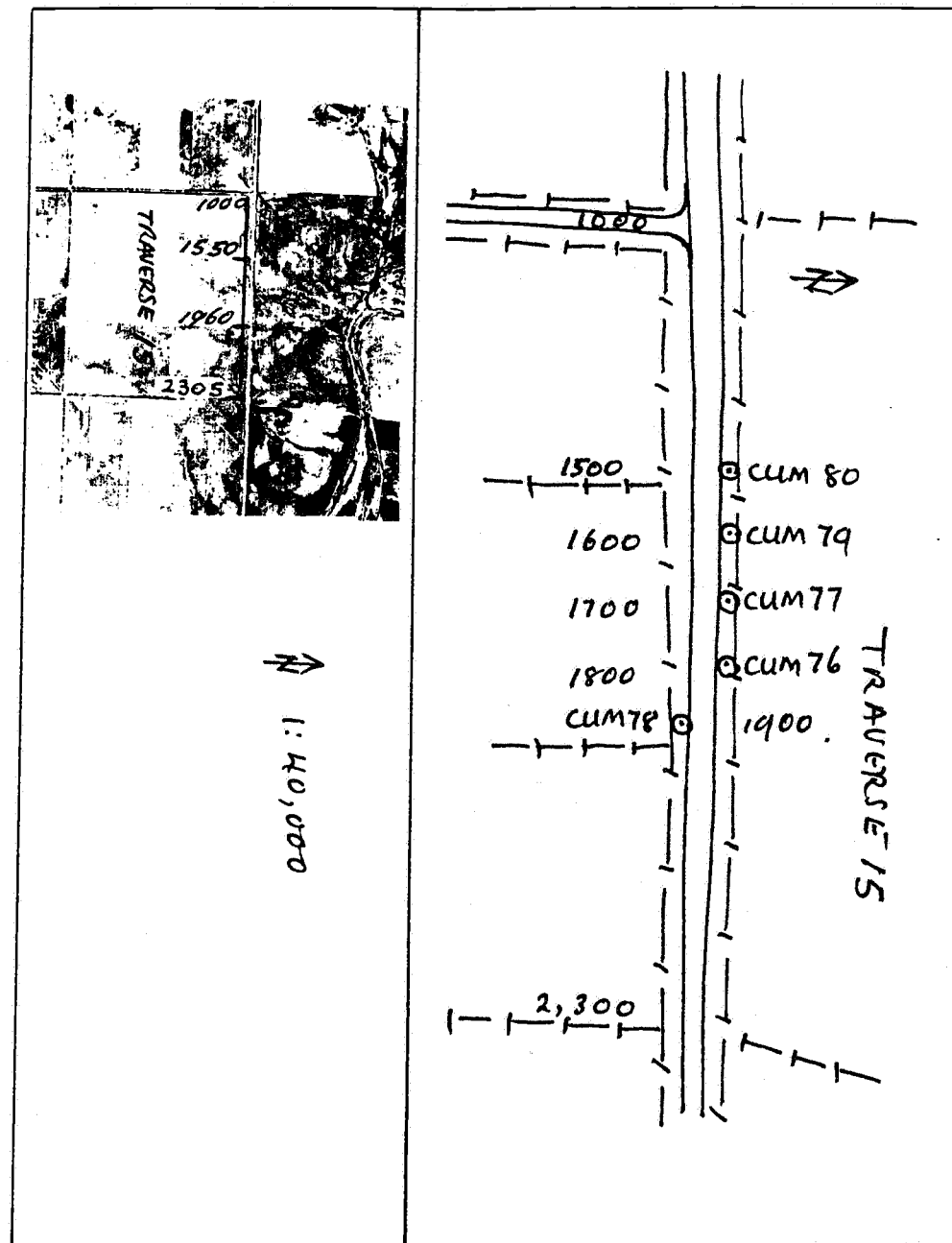
BASE STATION NOS. (Start) \_\_\_\_\_

BASE STATION NOS. (Finish) \_\_\_\_\_

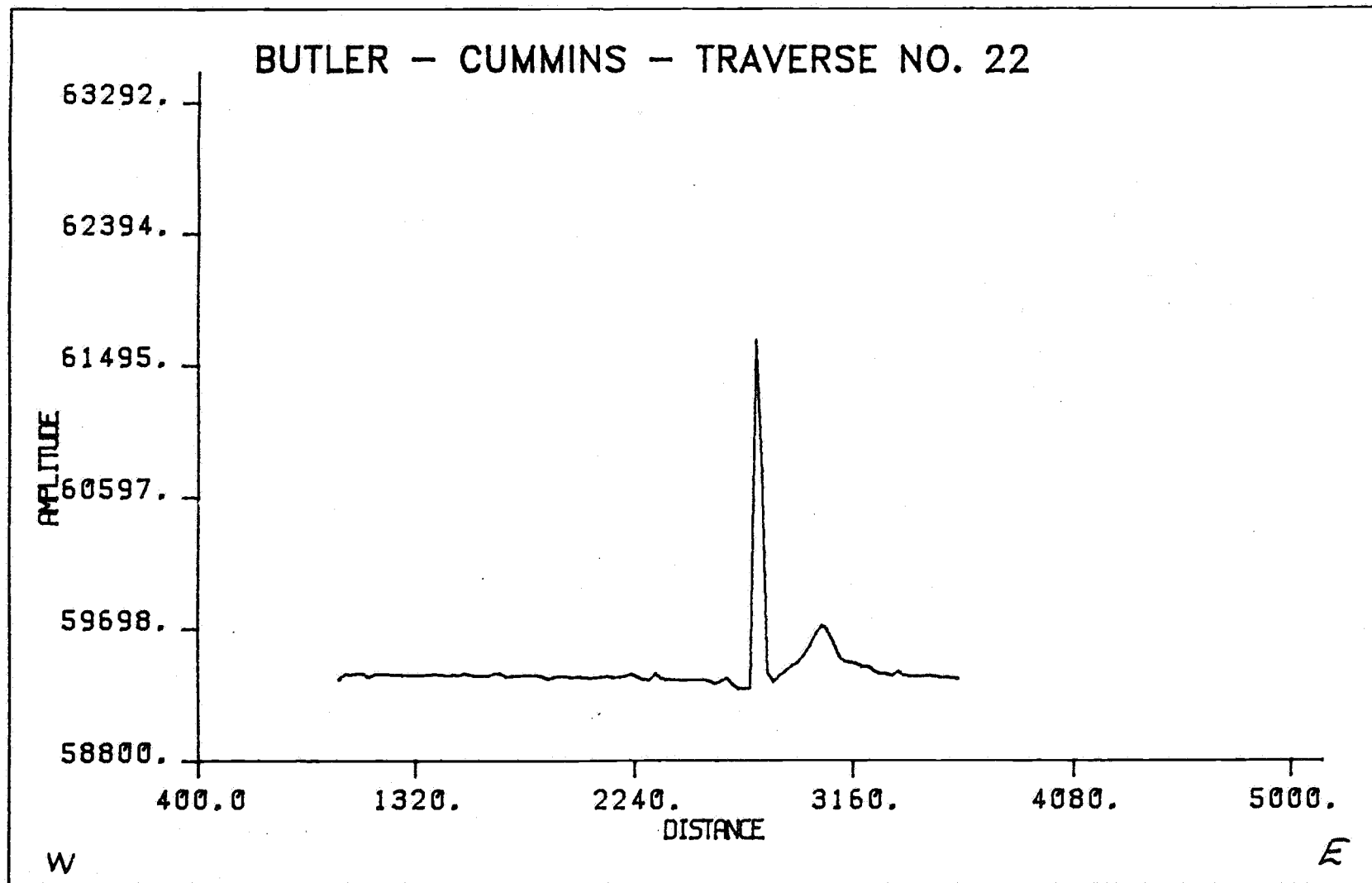
## TRAVERSE DETAILS:-

COORDINATE	STATION NO	SPACING	LANDMARK
1000m	498	25m	Scotts Rd intersect, W, Fence post
	506	"	" "
	520	"	Fence L S, green post.
1650m	524	10m	
	526	"	Creek, spoil heap to S
	532	"	big calcareate o/c boulder S
	534	"	Lge round boulder to right.
1800m	539	"	high values.
	551	"	Fence L on S side
2030m	562	25m	Green fence post, tree in paddock.
2305	573	"	EOT, Fence L-, Side, & green post, rustic gate to long abandoned track, shown on map

REMARKS: \_\_\_\_\_

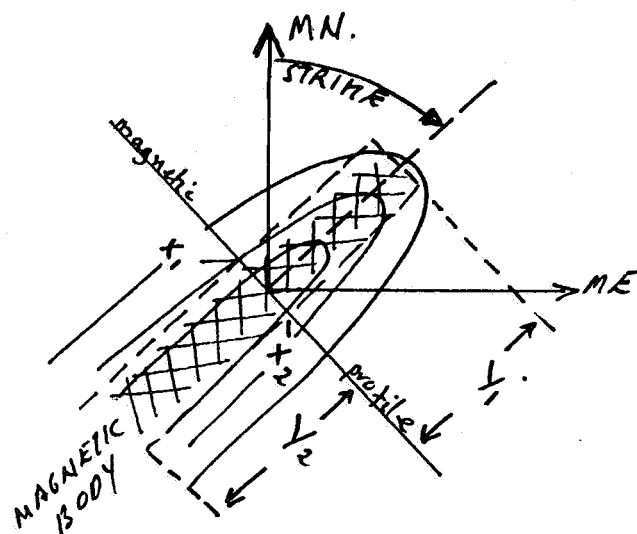
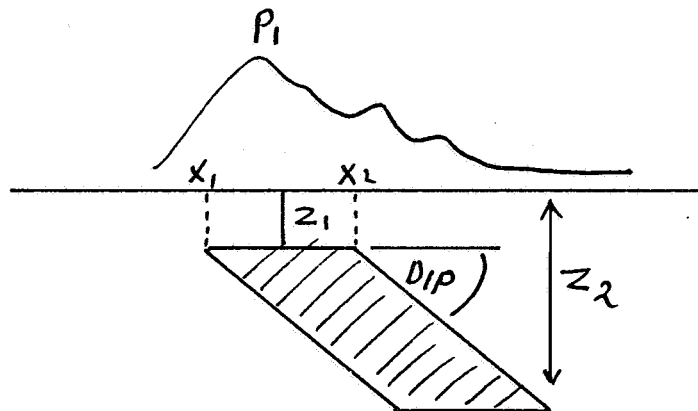
Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT

\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc..



PROFILE NO: 22 LOCATION: BUTLER-CUMMINS

ANOMALY	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	P <sub>5</sub>
X <sub>1</sub> width	3000				
X <sub>2</sub>	3075				
Y <sub>1</sub> strike	-500				
Y <sub>2</sub>	500				
Z <sub>1</sub> Depth	80				
Z <sub>2</sub> Thick	500				
Sucept.	0.005				
Dip.	100°				
STRIKE	100				



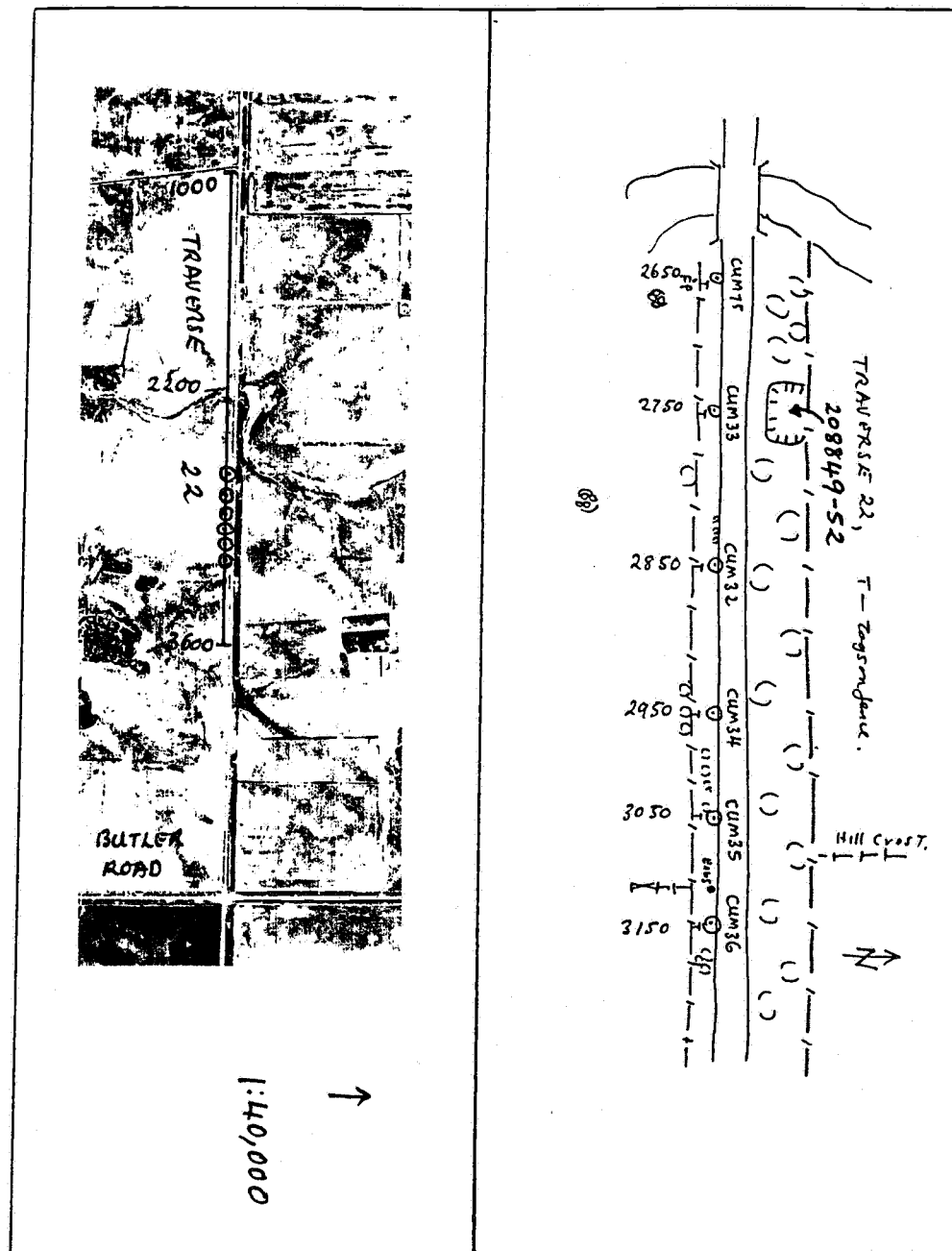
## CUMMINS — CUMMINS — LINE 22 155

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1025.	22000.	59390.0	2300.	22000.	59355.0
1050.	22000.	59389.0	2325.	22000.	59402.0
1075.	22000.	59394.0	2350.	22000.	59360.0
1100.	22000.	59394.0	2375.	22000.	59358.0
1125.	22000.	59372.0	2400.	22000.	59352.0
1150.	22000.	59391.0	2425.	22000.	59353.0
1175.	22000.	59393.0	2450.	22000.	59355.0
1200.	22000.	59390.0	2475.	22000.	59354.0
1225.	22000.	59383.0	2500.	22000.	59355.0
1250.	22000.	59387.0	2525.	22000.	59354.0
1275.	22000.	59384.0	2550.	22000.	59348.0
1300.	22000.	59384.0	2575.	22000.	59329.0
1325.	22000.	59384.0	2600.	22000.	59345.0
1350.	22000.	59385.0	2625.	22000.	59365.0
1375.	22000.	59386.0	2650.	22000.	59325.0
1400.	22000.	59390.0	2675.	22000.	59292.0
1425.	22000.	59387.0	2700.	22000.	59294.0
1450.	22000.	59380.0	2725.	22000.	59296.0
1475.	22000.	59387.0	2750.	22000.	61668.0
1500.	22000.	59385.0	2775.	22000.	60766.0
1525.	22000.	59395.0	2800.	22000.	59402.0
1550.	22000.	59384.0	2825.	22000.	59342.0
1575.	22000.	59380.0	2850.	22000.	59382.0
1600.	22000.	59377.0	2875.	22000.	59418.0
1625.	22000.	59379.0	2900.	22000.	59447.0
1650.	22000.	59395.0	2925.	22000.	59475.0
1675.	22000.	59396.0	2950.	22000.	59521.0
1700.	22000.	59371.0	2975.	22000.	59588.0
1725.	22000.	59379.0	3000.	22000.	59667.0
1750.	22000.	59377.0	3025.	22000.	59727.0
1775.	22000.	59381.0	3050.	22000.	59696.0
1800.	22000.	59381.0	3075.	22000.	59605.0
1825.	22000.	59381.0	3100.	22000.	59517.0
1850.	22000.	59375.0	3125.	22000.	59479.0
1875.	22000.	59357.0	3150.	22000.	59471.0
1900.	22000.	59374.0	3175.	22000.	59464.0
1925.	22000.	59380.0	3200.	22000.	59441.0
1950.	22000.	59375.0	3225.	22000.	59443.0
1975.	22000.	59372.0	3250.	22000.	59413.0
2000.	22000.	59375.0	3275.	22000.	59397.0
2025.	22000.	59370.0	3300.	22000.	59394.0
2050.	22000.	59366.0	3325.	22000.	59384.0
2075.	22000.	59370.0	3350.	22000.	59413.0
2100.	22000.	59373.0	3375.	22000.	59384.0
2125.	22000.	59378.0	3400.	22000.	59378.0
2150.	22000.	59368.0	3425.	22000.	59378.0
2175.	22000.	59376.0	3450.	22000.	59378.0
2200.	22000.	59381.0	3475.	22000.	59381.0
2225.	22000.	59394.0	3500.	22000.	59379.0
2250.	22000.	59373.0	3525.	22000.	59372.0
			3550.	22000.	59370.0
			3575.	22000.	59364.0
			3600.	22000.	59360.0

PROJECT NO. CUMMINS LOCATION BUTLERPROFILE NO. 22, "Gregyrhe" ORIENTATION W → EOPERATOR T. Just DATE 17/3/85PROFILE/REF. COORDINATES "22,000"BASE STATION NOS. (Start) 313, 314, 315BASE STATION NOS. (Finish) 421, 422, 423

TRAVERSE DETAILS:-			
COORDINATE	STATION NO	SPACING	LANDMARK
1000	316	25m	From road, South side
1100	320		Red Fews FP, Pipe across road.
1200	324		Telecom post, N.
1450	334		FP post, S.
1750	346		5m W of "Gregyrhe" across.
1875	351		Power line, Fence L, S.
2000	356		F.P. sign
2200	364		Small salt flat, Fv fence, N.
2300	368		Steel scrap, N side
2400	372		roadside boulders - Tremalis
2750	386		Peak value 62305.
3025	397		" " 59729
3150	402		Fences L & S & N of each
3500	416		FP 10m W, S; Fence L & N th.
3600	420		200m W of low point in road.

REMARKS: \_\_\_\_\_

Cassette/Disk No.: \_\_\_\_\_ VAX File: CUMMINS.DAT;

\*NB: Landmarks, Stn. Nos., Distances, orientation, scale, peak values etc..

**APPENDIX 2**

Petrology Report CMS 85/5/12



## Central Mineralogical Services

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39 Beulah Road  
Norwood, S.A. 5067  
Telephone 42 5659

Mr. J.L. Curtis  
Senior Geologist  
C.S.R. Limited  
Minerals Division  
170, Greenhill Road  
PARKSIDE / S.A. 5063

21st May, 1985

### REPORT CMS 85/5/12

YOUR REFERENCE:	Order No. 42070
DATE RECEIVED:	13th May, 1985
SAMPLE NOS.:	26 Samples
SUBMITTED BY:	J.L. Curtis
WORK REQUESTED:	Petrology

*H.W. Fander*  
H.W. Fander, M. Sc.

REPORT CMS 85/5/12Cummins Rock Samples

Twenty-six rock and chip samples were received for brief petrographic descriptions and classifications; thin-sections were prepared and examined, and are briefly reported in the accompanying tables.

Summary

Most of the rocks are gneisses of sedimentary origin; there is a small group of metaquartzites representing chemical sediments, two breccias, four weathered and ferruginised rocks, and an amphibolite.

The gneisses generally consist of mineral assemblages such as hornblende, garnet and sillimanite, which enable them to be assigned to the amphibolite facies of regional metamorphism; one of these rocks (851) must have had unusual composition as a sediment to produce the present assemblage with significant Fe and Mg. A few of the gneisses contain relatively conspicuous amounts of apatite, suggesting a partly chemical origin, and one of these also contains graphite (847).

The metaquartzites all contain minerals indicating at least amphibolite-facies metamorphism; some carry appreciable magnetite, and it is clear that all these rocks represent chemical sediments, including banded iron formations and related units. However, none of the rocks represent carbonate sediments.

The amphibolite (850) is believed to be of igneous origin, but the rock is of simple composition and lacking in diagnostic features, and field relationships need to be considered.

Other rocks include a quartzite breccia (822) which is reminiscent of a silcrete, another breccia (857) of mixed origin, probably from a weathering horizon, and a goethite-kaolinite rock (855) of uncertain derivation, possibly a completely lateritised calc-silicate.

H.W. Fander, M. Sc.

Sample No.	Rock Name - Brief Petrography
209605 (T.S. 53361)	<u>Weathered Metaquartzite.</u> Clay-limonite pseudomorphs after ?diopside, sparse small biotite flakes, scattered through interlocking quartz mosaic. Believed to be metamorphosed chemical sediment (?B.I.F.).
209650	<u>Hornblende-Quartz-Plagioclase Microgneiss.</u> Thin discontinuous bands of hastingsitic hornblende, interlocking microgranular quartz and andesine; accessory apatite, leucoxenised oxides. Amphibolite facies calc-silicate metasediment.
209742	<u>Hornblende-Quartz-Plagioclase Microgneiss.</u> Bands of small subparallel hornblende needles, microgranular quartz and andesine; streaks of oxide opaques. Quartz-goethite chips with some boxworks after sulphides (?sphalerite, pyrite).
209756	<u>Metaquartzite.</u> Dominantly composed of interlocking quartz grains; subparallel streaks of argillised fine calc-silicate; sporadic graphite; fine diopside needles preserved in quartz. Cp. 605. Possibly B.I.F.-related unit, amphibolite facies.
209812	<u>Metaquartzite, Garnet Rock.</u> Most fragments are coarse interlocking quartz, with traces of amphibole, goethite-filled fractures. One fragment of extensively ferruginised banded garnet rock with trace biotite; a calc-silicate rock.
210010	<u>Granulated Quartz-Feldspar Gneiss.</u> Very coarse platy microcline, anhedral quartz, minor albite-oligoclase, traces of muscovite, small dark green tourmaline needles. All stressed, marginally granulated and recrystallized.
210221	<u>Weathered Sillimanite-Biotite-?Garnet Gneiss.</u> Shapeless, generally ferruginised pseudomorphs after ?garnet, with rutile needles; relict bunches of sillimanite fibres, subparallel green biotite flakes, quartz lenses; hematite masses.
210406	<u>Quartz-Feldspar-Biotite Gneiss.</u> Coarse plates of microcline, anhedral quartz, interstitial oligoclase; subparallel dark green biotite flakes. Accessory magnetite, conspicuous apatite. Amphibolite facies metasediment.
210519	<u>Hornblende-Feldspar Gneiss.</u> Fairly small subparallel acicular to poikiloblastic hornblende crystals, granular, cloudy, poorly twinned plagioclase; very minor quartz only. Accessory cloudy sphene.
210558	<u>Degraded Biotite-Microgneiss.</u> Thin foliations of degraded biotite flakes, alternating with bands of microgranular quartz and plagioclase. Accessory magnetite, apatite. Trace ?oxidised pyrite. Cp. 406, but finer-grained.
210772	<u>Quartz-Feldspar-Hornblende Gneiss.</u> Patchy poikiloblastic hornblende, associated conspicuous magnetite, cloudy untwinned plagioclase, variable granular quartz, dispersed and as lenses. Amphibolite facies metasediment.
208822	<u>Quartzite Breccia.</u> Small and large angular/splintery fragments of quartzose siltstone, chert, vein-quartz, lightly ferruginised, cemented by quartz and cut by younger quartz veins. Possibly a type of silcrete.
209453	<u>Garnet-Biotite Gneiss.</u> Conspicuous garnet porphyroblasts, foliated subparallel biotite flakes, granular quartz, occasional matted sillimanite patches; partly chloritised. Amphibolite facies metasediment.

Sample No.	Rock Name - Brief Petrography
208847	<u>Quartz-Feldspar-Biotite Gneiss</u> . Porphyroblasts of microcline set in gneissose mass of quartz, microcline and oligoclase, with lenses and streaks of brown biotite, associated apatite, traces of fine graphite. Amphibolite facies metasediment.
208848	<u>Garnet-Biotite-Sillimanite-Cordierite Gneiss</u> . Small garnets and tufts of fibrous sillimanite scattered through a mass of subparallel brown biotite flakes, granular quartz and microcline, and poikiloblastic cordierite. Amphibolite facies metasediment.
208849	<u>Magnetite-Diopside-Hornblende Metaquartzite</u> . Dominantly strongly stressed interlocking quartz; bands of fine, hematitised magnetite with intergrown dark hornblende; sporadic diopside-hedenbergite, weathered. Metamorphosed B.I.F.
208850	<u>Amphibolite</u> . About 65 % hornblende as slender parallel crystals, with interstitial twinned and untwinned labradorite, and evenly distributed thin streaks of fine sphene. Believed to be meta-igneous.
208851	<u>Garnet-Grunerite Gneiss</u> . Dominantly composed of subparallel prismatic grunerite, amphibole crystals, with large garnet porphyroblasts, a few biotite patches, trace magnetite; weathered, Fe-stained. Amphibolite facies metasediment.
208852	<u>Magnetite-Hornblende Metaquartzite</u> . Bands of fine-grained hematitised magnetite intergrown with quartz and pale hornblende, alternating with bands of interlocking quartz. Cp. 848. Metamorphosed B.I.F.
208853	<u>Weathered Sillimanite Gneiss</u> . Extensively kaolinised interleaved muscovite, patches of kaolinised sillimanite with relict fibrous textures; coarse quartz lenses, bands of granular quartz. Altered ?garnet. Amphibolite facies metasediment.
208854	<u>Weathered Garnet-Magnetite Schist</u> . Small porphyroblasts of completely altered, limonitised garnet, scattered through fine mass of quartz, hematitised magnetite, streaks and veins of kaolinised ?feldspar. Metamorphosed ?B.I.F.
208855	<u>Goethite-Kaolinite Rock</u> . Preferred fabric, possibly gneissic. Lenses of goethite-impregnated ultrafine kaolinite; streaks, lenses and networks of compact goethite. Origin unknown, possibly coarse garnet or similar silicates.
208856	<u>Ferruginised ?Schist</u> . Subparallel streaks of hematitised magnetite, bands of fine quartz with intergranular goethite; wide bands of massive, textureless goethite representing a silicate, possibly hornblende. Cp. 852?
208857	<u>Breccia</u> . Large and small fragments of metaquartzite, chert, possible ferruginised silicates (e.g. garnet), set in earthy and compact goethite; carbonate void-fillings. Weathering profile or lateritic rock.

- 
- 208858 Weathered, Ferruginised Gneiss. Small subparallel quartz fragments, some containing finely fibrous ?sillimanite; limonitic patches after ?garnet. Abundant goethite throughout; small hornblende fragments.
- 208859 Weathered, Ferruginised Gneiss. Streaks of argillised fibrous sillimanite, flakes of degraded muscovite and biotite, (T.S. ferruginised ?garnet; abundant pervasive goethite. Gneissic fabric, lensoid quartz. Cp. 858; amphibolite facies. 53386)

### APPENDIX 3

Geochemical assays of RAB and surface rock  
chip samples

- 3(a) Bottom-Hole Samples
- 3(b) Base of Oxidation Samples
- 3(c) Profile of Hole CUM72
- 4(d) Petrographic Samples



LINE DRILL  
NO. HOLE

ANALYTICAL REPORT

JOB COM850820  
O/N : 42047

		SAMPLE	Cu	Pb	Zn	Ni	Co	Cr	Mn	Ba	Sn	W	As	Fe	Ca	Mg
6	5	209419	70	8	42	10	6	18	210	115	14	(10	7	3.30	0.23	0.36
6	6	209453	22	14	16	10	6	42	150	195	8	(10	18	7.30	0.88	0.30
4	13	209548	44	22	80	50	8	(4	75	115	(4	(10	5	3.60	0.03	0.28
4	14	209581	24	14	65	18	4	8	80	340	10	(10	4	4.60	0.03	0.42
4	15	209606	50	26	340	22	14	16	1400	210	(4	(10	5	10.8	0.24	0.32
4	16	209625	20	18	70	26	12	12	570	520	16	(10	5	8.50	0.06	0.81
16	17	209633	145	28	210	38	24	10	280	50	(4	(10	9	10.1	2.50	1.55
16	18	209650	30	8	95	22	18	4	140	180	(4	(10	5	4.70	1.64	1.07
16	19	209666	145	10	32	20	14	(4	70	40	(4	10	4	5.10	0.66	1.01
19	20	209689	80	8	95	28	12	6	100	95	8	(10	2	6.00	0.05	0.39
19	21	209708	40	4	105	24	16	(4	180	175	8	(10	5	6.00	1.28	0.66
19	22	209742	290	(4	260	85	55	16	710	30	(4	(10	6	8.80	1.22	1.09
19	23	209756	20	(4	22	12	6	20	44	20	(4	(10	5	2.60	0.03	0.04
19	24	209776	150	16	90	75	22	26	75	45	8	(10	4	8.30	1.67	2.10
19	25	209795	95	6	80	90	36	75	260	85	(4	(10	6	6.20	3.10	1.94
19	26	209812	145	48	160	50	20	32	155	150	(4	(10	14	19.6	0.12	0.19
19	27	209836	150	10	165	70	42	8	85	50	(4	(10	8	7.50	0.66	0.59
21	28	209858	55	320	130	14	12	6	510	50	(4	(10	(2	1.00	0.09	0.11
21	29	209874	50	24	180	65	42	8	210	120	(4	15	5	4.00	0.55	0.61
21	30	209896	195	14	175	46	46	12	1050	65	(4	(10	6	12.1	1.12	0.63
21	31	209931	80	16	115	26	8	10	710	65	8	(10	2	6.20	0.16	0.18
22	32	209939	50	30	80	20	8	14	130	450	4	(10	5	3.10	0.14	0.62
STANDARD		209941A	5	(4	3	(4	(4	(4	48	(10	8	(10	4	0.30	(0.01	(0.01
STANDARD		209941B	75	16	36	50	6	28	110	350	(4	40	14	2.40	0.03	0.20
STANDARD		209941C	9	6	2	(4	(4	(4	46	(10	(4	(10	5	0.30	(0.01	(0.01
22	33	209943	110	8	60	20	16	26	120	125	4	10	22	18.1	2.30	1.21
22	34	209946	165	(4	55	28	44	4	2200	390	(4	15	5	8.10	4.20	2.65
22	35	209956	130	8	90	55	22	14	300	330	8	(10	6	5.90	1.35	1.51
22	36	209963	210	55	95	50	32	4	270	110	6	(10	2	8.80	1.67	1.74
13	37	209974	16	(4	14	14	4	28	46	25	4	(10	2	1.60	0.26	0.14
13	38	209991	160	6	70	16	12	8	200	200	6	30	3	3.30	1.24	0.59
13	39	210006	610	55	220	60	28	18	175	100	6	15	3	3.10	0.77	0.86
13	40	210010	12	8	12	8	4	42	50	15	6	(10	3	0.90	0.39	0.08
13	41	210024	42	8	110	44	14	16	660	370	10	(10	4	3.40	0.05	0.91
4	42	210052	40	14	100	36	14	16	220	480	(4	(10	3	3.40	0.06	0.93
4	43	210058	26	16	140	50	22	14	370	370	12	(10	5	6.10	0.07	1.16
4	44	210076	22	18	48	18	10	20	440	490	14	(10	2	6.80	0.10	0.80
4	45	210107	85	16	210	60	28	10	210	470	(4	(10	2	3.00	0.02	0.86
4	46	210131	60	16	130	40	16	10	120	490	4	(10	5	1.90	0.02	0.59
4	47	210160	34	24	110	24	12	14	260	840	8	(10	3	4.50	0.03	0.58
4	48	210185	70	24	160	60	28	20	440	170	(4	(10	2	6.30	0.14	1.56
5	49	210221	40	22	105	30	14	10	250	180	10	(10	4	7.90	0.01	0.39
5	50	210260	22	18	95	24	14	8	290	370	(4	(10	2	3.50	0.03	0.53
5	51	210299	24	30	85	24	16	12	220	290	6	(10	4	3.00	0.07	0.40
5	52	210318	50	65	150	42	20	20	230	370	14	(10	4	4.10	0.07	0.90
5	53	210351	22	28	165	26	18	6	220	1150	10	(10	6	4.30	0.05	0.55
7	54	210386	24	18	400	48	32	12	240	540	8	(10	3	4.20	0.08	0.89
7	55	210406	14	44	150	12	8	(4	120	1550	6	(10	5	3.90	0.53	0.53
7	56	210421	26	28	70	20	10	8	105	230	12	(10	3	5.00	0.05	0.68
7	57	210427	10	22	120	12	8	16	300	1100	12	(10	6	3.00	1.01	0.61
UNITS			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
SCHEME			AAS1	AAS1	AAS1	AAS1	AAS1	AAS2	AAS2	XRF1	XRF1	XRF1	XRF1	AAS4	AAS6	AAS6

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APPENDIX 3(a)-2

LINE NO.	DRILL HOLE	ANALYTICAL REPORT											JOB COM850820 O/N : 42047			
		SAMPLE	Cu	Pb	Zn	Ni	Co	Cr	Mn	Ba	Sn	U	As	Fe	Ca	Mg
7	58	210430	48	20	60	8	4	12	115	620	12	110	2	2.00	0.51	0.22
STANDARDS		210441A	5	14	12	14	14	14	38	15	8	110	3	0.30	10.01	10.01
STANDARDS		210441B	70	18	36	50	6	30	160	350	6	55	14	2.50	0.03	0.21
STANDARDS		210441C	6	6	12	14	14	14	38	10	6	110	4	0.30	10.01	10.01
16	59	210448	115	10	250	80	60	14	70	110	18	80	6	8.80	0.67	1.12
14	60	210454	135	16	75	48	26	14	70	120	12	110	3	8.10	0.91	0.39
14	61	210462	40	22	85	34	16	8	150	155	4	110	6	5.50	0.56	0.44
14	62	210473	55	16	120	44	22	10	120	125	16	10	6	5.40	0.36	0.60
14	63	210479	48	6	60	38	16	18	155	220	6	110	7	5.10	1.19	0.93
14	64	210490	85	6	110	70	24	20	320	70	14	110	2	6.20	1.85	2.55
14	65	210505	40	10	110	44	28	6	380	230	10	110	3	5.70	0.91	0.93
14	66	210519	65	12	110	95	28	26	165	240	14	110	2	5.10	1.13	2.00
24	67	210558	30	10	120	34	24	14	320	120	4	110	5	5.10	0.84	0.65
24	68	210594	140	6	175	85	44	22	2050	10	4	110	4	8.20	0.23	0.46
24	69	210621	90	10	175	60	34	26	510	20	14	10	5	8.80	0.14	1.10
24	70	210656	50	14	195	65	22	10	220	125	12	110	9	5.20	0.49	0.35
24	71	210681	125	4	330	65	36	14	160	25	8	30	3	5.80	0.73	0.34
19	72	210709	60	24	180	95	48	28	600	145	14	10	4	14.9	0.19	0.28
19	73	210749	155	10	240	155	100	12	1550	30	6	110	2	7.80	0.54	0.43
16	74	210758	34	16	115	20	20	16	70	95	10	110	6	3.40	0.02	0.73
22	75	210766	105	8	130	160	65	38	580	85	6	110	6	6.50	2.65	3.10
15	76	210772	200	6	105	115	38	95	370	110	10	110	2	10.3	1.36	1.30
15	77	210792	40	6	180	50	20	24	300	520	14	15	3	5.70	0.16	0.79
15	78	208806	65	14	155	20	16	8	145	170	8	110	6	5.20	0.12	0.53
15	79	208822	6	6	24	14	4	14	42	115	6	110	6	1.00	0.03	0.15
15	80	208831	60	20	50	12	6	20	50	105	30	110	7	6.80	1.30	1.41
STANDARD		208832A	2	4	10	4	14	14	40	15	10	110	3	0.40	10.01	10.01
STANDARD		208832B	940	4250	4600	26	14	32	210	630	410	10	150	28.8	0.03	0.01
STANDARD		208832C	4	10	12	14	4	14	34	10	14	110	6	0.30	10.01	10.01
UNITS			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	X	X	X
SCHEME			AAS1	AAS1	AAS1	AAS1	AAS1	AAS2	AAS2	XRF1	XRF1	XRF1	XRF1	AAS4	AAS6	AAS6





NO. HOLE		ANALYTICAL REPORT											JOB C08850820 O/N : 42047	
		SAMPLE	Cu	Pb	Zn	Ni	Co	Cr	Mn	Ba	Sn	U	As	
4	13	209545	36	22	85	38	4	6	38	130	4	(10	5	
4	14	209569	65	65	135	42	6	34	100	230	(4	(10	8	
4	15	209597	38	250	185	20	8	10	330	210	(4	(10	2	
4	16	209616	22	32	60	26	10	18	290	370	12	(10	5	
16	17	209629	155	55	350	34	14	40	60	105	6	(10	8	
16	18	209640	60	8	75	30	18	14	70	380	4	(10	6	
16	19	209659	36	8	34	10	8	20	24	10	38	(10	8	
19	20	209687	60	10	95	30	10	12	70	55	4	(10	4	
19	21	209702	16	4	42	16	6	14	46	105	(4	(10	2	
19	22	209738	100	10	105	30	8	14	42	60	6	(10	4	
19	23	209751	24	4	26	10	(4	24	20	20	(4	(10	5	
19	24	209774	165	12	210	120	28	90	50	75	(4	(10	4	
19	25	209789	160	10	175	85	40	16	75	50	(4	(10	4	
19	27	209833	115	10	120	70	36	20	95	430	6	(10	7	
22	32	209933	80	30	115	24	10	12	120	330	16	(10	7	
22	35	209944	32	8	26	16	10	20	230	75	6	(10	22	
22	36	209953	120	12	155	115	30	24	185	300	4	(10	4	
STANDARD		209959	165	12	60	55	24	16	210	370	12	(10	5	
STANDARD		209962A	6	(4	2	(4	(4	(4	20	15	8	(10	4	
STANDARD		209962B	75	22	40	60	4	42	95	250	8	30	10	
13	41	209962C	7	(4	2	4	(4	(4	30	10	6	(10	2	
4	42	210020	44	22	75	24	8	26	150	280	(4	(10	12	
4	43	210035	20	105	36	6	(4	12	30	115	(4	(10	6	
4	44	210053	26	14	65	26	10	12	160	270	10	(10	3	
4	45	210066	24	10	80	16	6	28	340	280	10	(10	4	
4	46	210090	100	22	44	18	4	10	24	330	10	(10	5	
4	47	210125	46	32	40	12	(4	12	24	75	10	(10	2	
4	48	210154	36	22	125	8	8	4	190	1500	6	(10	4	
5	49	210181	50	22	200	36	12	20	185	200	12	(10	4	
5	50	210212	42	36	60	14	6	12	190	95	4	(10	4	
5	51	210241	34	32	90	20	6	22	125	130	10	(10	4	
5	52	210296	16	24	110	16	12	14	185	360	12	(10	4	
5	53	210310	120	20	180	38	24	12	135	450	8	(10	2	
7	54	210348	28	28	200	20	12	8	230	1250	(4	(10	2	
7	55	210380	12	10	46	8	4	22	80	490	8	(10	4	
7	56	210404	26	36	135	20	8	6	230	2300	16	(10	6	
14	59	210418	14	28	26	6	(4	10	34	230	6	(10	8	
14	60	210445	95	4	220	85	55	24	80	140	34	95	6	
14	61	210451	140	12	110	55	24	18	38	250	8	15	8	
STANDARD		210460	34	6	70	38	10	10	110	155	(4	25	5	
STANDARD		210463A	4	(4	3	(4	(4	(4	32	10	8	(10	4	
STANDARD		210463B	75	10	40	55	4	38	105	310	8	45	14	
		210463C	7	(4	3	4	(4	(4	38	10	6	(10	4	
14	62	210469	55	8	155	70	22	18	110	145	4	15	3	
14	63	210476	75	(4	90	50	20	14	130	230	(4	(10	7	
14	64	210487	110	(4	300	115	50	16	130	185	4	20	3	
14	65	210499	55	8	110	70	20	14	125	110	8	15	(2	
14	66	210515	50	(4	105	90	32	40	130	165	6	10	2	
24	67	210548	50	12	65	20	14	(4	470	180	(4	(10	5	
24	68	210588	220	8	170	48	24	135	720	105	(4	(10	4	
24	69	210613	150	18	120	38	16	6	250	35	8	10	3	
24	70	210650	65	10	250	85	34	20	1600	95	(4	(10	5	
24	71	210675	180	18	310	60	16	38	370	(10	14	(10	(2	
16	74	210754	46	12	75	12	(4	44	44	80	(4	(10	8	
22	75	210762	32	(4	16	6	(4	32	34	110	(4	(10	6	
15	79	208818	20	(4	95	22	16	6	140	270	6	(10	5	
UNITS			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME			AAS1	AAS1	AAS1	AAS1	AAS1	AAS2	AAS2	XRF1	XRF1	XRF1	XRF1	

APPENDIX 3(b)

HOLE CUM 72  
DEPTH



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COMPUTERISED ANALYTICAL LABORATORIES



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APPENDIX 3(c)

ANALYTICAL REPORT

JOB COM850820  
O/N : 42047

FROM TO

	SAMPLE	Cu	Pb	Zn	Ni	Co	Cr	Mn	Ba	Sn	U	As	Fe	Ca	Mg
0 2	210682	9	12	48	14	8	12	65	70	44	110	6	1.60	10.3	0.42
2 4	210683	4	10	14	10	6	6	48	80	44	110	6	1.20	10.8	0.43
STANDARD	210684A	2	6	42	44	44	44	40	10	8	110	3	0.30	10.01	10.01
STANDARD	210684B	7	4	16	4	6	44	200	230	4	110	4	0.90	0.01	0.30
STANDARD	210684C	3	44	4	44	44	44	40	110	8	110	6	0.30	10.01	10.01
4 6	210685	42	10	14	6	6	44	65	95	10	110	7	1.10	19.8	0.46
6 8	210686	12	20	18	10	8	24	135	95	10	110	12	5.70	6.80	0.93
8 10	210687	24	28	55	18	8	42	48	155	44	110	14	15.9	0.40	0.17
10 12	210688	24	22	12	12	4	12	36	80	8	110	7	9.00	0.04	0.05
12 14	210689	9	14	3	12	4	6	46	55	10	10	5	1.00	0.04	0.04
14 16	210690	6	12	10	14	4	44	48	20	6	110	5	0.50	0.01	0.02
16 18	210691	14	16	125	20	4	44	95	85	10	110	3	0.60	0.02	0.05
18 20	210692	12	14	36	16	4	10	55	20	4	10	4	0.40	10.01	0.02
20 22	210693	24	12	24	12	4	14	50	185	6	110	2	1.70	0.01	0.02
22 24	210694	20	8	32	12	4	14	40	20	6	110	3	1.90	10.01	0.02
24 26	210695	14	14	75	8	4	10	44	40	10	110	5	1.20	10.01	0.02
26 28	210696	10	10	26	12	44	16	60	15	4	110	5	0.60	0.03	0.02
28 30	210697	42	14	26	36	6	16	60	15	8	10	4	2.40	0.02	0.02
30 32	210698	100	14	50	36	10	36	75	20	4	110	3	5.10	0.02	0.05
32 34	210699	38	12	75	20	8	24	75	35	10	110	5	2.50	0.03	0.05
34 36	210700	44	10	70	24	16	10	85	40	12	110	4	3.70	0.02	0.26
36 38	210701	70	6	145	40	20	4	140	65	6	110	2	4.50	0.01	0.45
38 40	210702	70	6	145	50	24	6	135	180	6	110	6	4.10	0.02	0.37
40 42	210703	28	14	120	36	12	12	30	390	10	110	5	3.70	0.02	0.09
42 44	210704	20	42	46	28	8	12	30	230	8	110	3	2.60	0.01	0.10
44 46	210705	80	14	90	70	28	30	80	45	4	110	5	7.30	0.02	0.25
46 48	210706	100	8	100	55	24	30	65	20	8	10	3	7.40	0.07	0.24
48 50	210707	80	16	150	70	28	40	85	70	8	110	4	10.5	0.11	0.27
50 52	210708	95	20	115	70	30	30	210	110	4	110	5	5.70	0.28	0.44
52 53	210709	60	24	180	95	48	28	600	145	44	10	4	14.9	0.19	0.28
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS2	AAS2	XRF1	XRF1	XRF1	XRF1	XRF1	AAS4	AAS6	AAS6

DRILL  
HOLE

ANALYTICAL REPORT

JOB COM850820  
Q/N : 42047

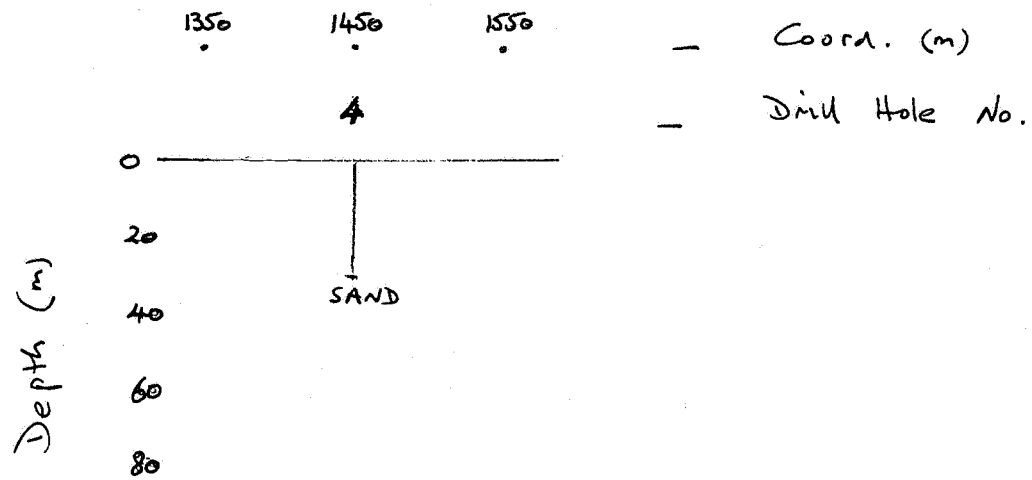
NO.	SAMPLE	Cu	Pb	Zn	Ni	Co	V	Cr	Ba	Sn	W	As	Sr	Rb	Zr	SiO2	TiO2	Al2O3	MgO	CaO	Na2O	K2O	MnO	Fe2O3	P2O5	LOI
15	208833	48	(4	380	24	10	70	42	75	(4	10	7	24	40	90	61.7	0.32	10.4	0.79	0.50	0.18	0.49	0.38	15.1	0.15	9.45
18	208834	16	(4	50	12	10	75	26	125	8	(10	8	150	18	185	63.7	0.98	14.0	2.20	5.20	3.65	0.81	0.10	7.65	0.25	1.46
22	208835	280	(4	195	75	65	320	20	30	(4	(10	2	105	10	55	49.1	0.74	11.5	2.45	3.35	1.90	0.23	0.21	23.5	0.19	6.50
23	208836	18	(4	10	8	10	45	8	10	8	(10	9	(2	2	6	91.5	0.02	0.96	(0.01	0.12	(0.01	0.03	0.03	6.05	0.05	1.30
26	208837	48	18	65	20	8	90	8	(10	4	(10	12	8	7	12	70.5	0.04	1.12	0.15	0.16	(0.01	0.04	0.04	23.5	0.45	4.20
40	208838	9	(4	3	(4	(4	(10	(4	25	8	(10	6	24	420	12	74.9	(0.01	12.2	0.05	0.34	2.50	6.20	0.03	2.55	0.19	0.71
49	208839	30	6	85	28	8	120	10	130	10	(10	6	20	125	150	54.1	0.55	14.4	0.62	0.14	0.13	1.31	0.10	20.9	0.24	7.65
55	208840	14	38	1550	8	6	50	4	1200	4	(10	6	500	240	70	58.9	0.32	17.7	0.72	2.15	2.55	9.35	0.06	5.25	0.74	2.05
66	208841	22	(4	40	32	12	115	4	390	8	(10	3	290	110	145	56.6	0.84	15.3	3.45	3.05	2.70	4.65	0.10	8.95	0.20	3.90
67	208842	18	(4	95	24	24	85	(4	115	6	(10	6	250	38	170	61.2	0.99	15.2	1.26	2.90	3.05	0.96	0.11	9.95	0.22	4.15
76	208843	70	(4	55	160	36	310	160	45	(4	(10	4	190	46	100	53.6	1.77	9.75	6.75	6.40	2.25	0.53	0.24	16.3	0.08	2.05
79	208844	14	(4	10	12	4	85	80	60	(4	(10	4	10	55	28	89.7	0.11	3.25	0.30	0.21	(0.01	1.00	0.03	4.10	0.04	1.35
6	208845	26	4	80	32	12	90	55	490	(4	(10	8	60	210	105	70.7	0.47	10.8	1.76	0.25	0.21	3.65	0.16	9.05	0.07	1.72
STANDARD	208846A	9	(4	2	4	(4	10	130	(10	10	(10	5	3	(2	30	96.8	0.02	(0.01	0.06	0.10	(0.01	0.04	0.03	3.20	0.03	0.01
STANDARD	208846B	50	6	32	50	4	35	38	290	8	45	14	90	310	250	72.2	0.45	11.6	0.49	0.19	0.81	4.55	0.04	5.80	0.08	2.90
STANDARD	208846C	10	(4	2	6	(4	(10	110	15	4	(10	4	(2	(2	32	97.9	0.02	(0.01	(0.01	0.11	(0.01	0.03	0.03	1.97	0.02	0.02
Rock Chip	208847	10	4	100	10	8	70	26	880	4	10	5	360	250	410	66.0	0.86	14.0	1.12	2.35	2.25	4.65	0.10	5.90	0.36	0.59
Rock Chip	208848	7	4	75	44	18	180	42	660	12	(10	4	95	260	290	61.8	0.98	16.2	3.00	0.47	0.82	4.95	0.14	10.1	0.09	1.19
Rock Chip	208849	16	4	12	12	4	40	80	35	(4	(10	16	46	8	(4	66.0	(0.01	0.23	0.46	1.63	(0.01	0.10	0.04	28.6	0.09	2.70
Rock Chip	208850	26	(4	12	18	8	45	12	430	(4	(10	2	160	10	38	49.2	0.67	13.8	8.15	12.1	2.20	0.21	0.19	11.6	0.05	2.05
Rock Chip	208851	16	(4	10	12	6	55	12	120	12	(10	26	44	14	46	44.9	0.29	5.55	5.90	2.30	0.39	0.16	0.14	37.6	0.07	3.05
Rock Chip	208852	8	(4	10	8	6	(10	55	200	8	15	14	400	16	6	43.1	0.01	0.14	1.35	1.70	0.10	0.10	0.11	51.1	0.69	1.42
Rock Chip	208853	22	12	8	8	6	35	16	330	6	15	6	50	36	160	69.2	0.65	15.8	0.53	0.87	0.10	1.40	0.01	1.24	0.04	8.85
Rock Chip	208854	12	4	9	8	4	55	16	30	(4	(10	8	34	12	70	39.7	0.28	11.0	0.17	0.17	0.17	0.07	0.03	42.2	0.04	5.95
Rock Chip	208855	34	18	9	12	(4	125	32	130	12	(10	12	48	16	46	24.2	0.49	18.2	0.17	0.28	0.07	0.08	0.03	45.7	0.03	10.6
Rock Chip	208856	42	10	55	55	10	30	28	15	(4	(10	6	46	18	10	4.15	0.06	1.77	0.28	0.30	0.31	0.06	0.06	82.7	0.87	9.65
Rock Chip	208857	110	14	16	14	4	650	20	220	18	(10	20	75	16	65	28.3	0.45	9.45	0.58	1.13	0.19	0.11	0.02	49.4	0.03	10.4
Rock Chip	208858	75	20	18	(4	4	780	42	100	(4	10	14	48	22	90	27.6	0.39	8.70	0.41	0.34	0.36	0.27	0.02	52.1	0.04	9.75
Rock Chip	208059	30	18	12	6	6	700	26	150	(4	20	22	80	145	160	39.7	0.68	12.9	0.80	1.51	0.26	1.69	0.02	33.9	0.03	7.90
STANDARD	208860A	7	(4	2	(4	(4	(10	4	15	(4	(10	5	(2	(2	36	97.6	0.02	(0.01	0.03	0.10	(0.01	0.03	0.02	1.61	0.01	(0.01
STANDARD	208860B	850	3700	4700	22	8	110	28	660	390	15	145	(2	24	115	44.2	0.82	0.67	0.21	0.15	0.18	0.11	0.06	50.2	0.03	3.60
STANDARD	208860C	22	(4	3	(4	(4	(10	4	(10	10	(10	4	2	(2	32	96.5	0.01	(0.01	0.06	0.10	(0.01	0.04	0.03	2.55	0.01	0.14
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3	AAS2	XRF1	XRF1	XRF1	XRF1	XRF1	XRF1	XRF1	ROC1A	ROC1A	ROC1A	ROC1A	ROC1A	ROC1A	ROC1A	ROC1A	ROC1A	ROC1A	ROC1A

APPENDIX 3(d)

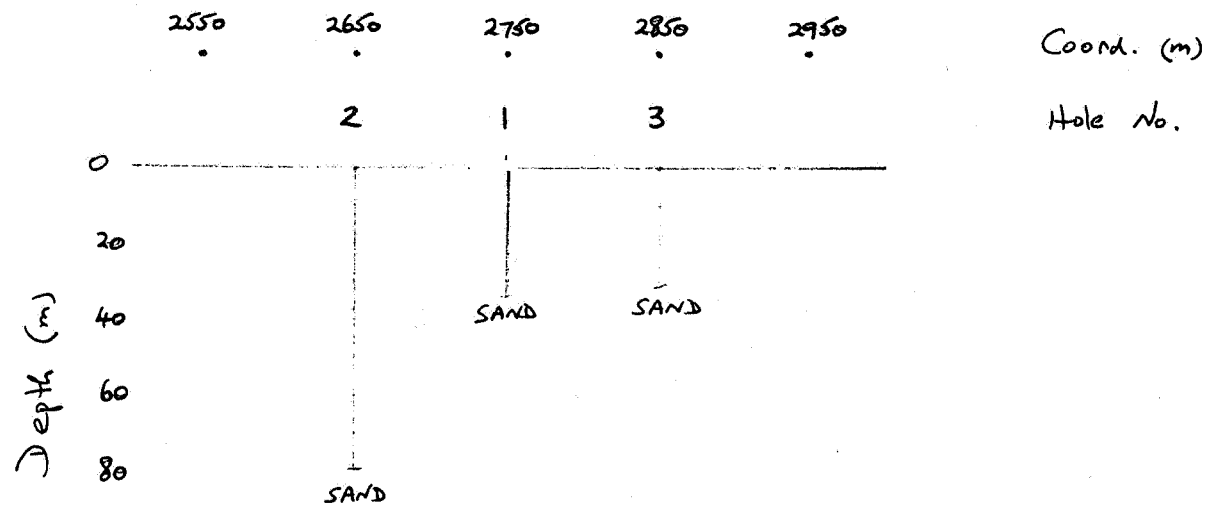
**APPENDIX 4**

Drill hole sections along magnetic profiles

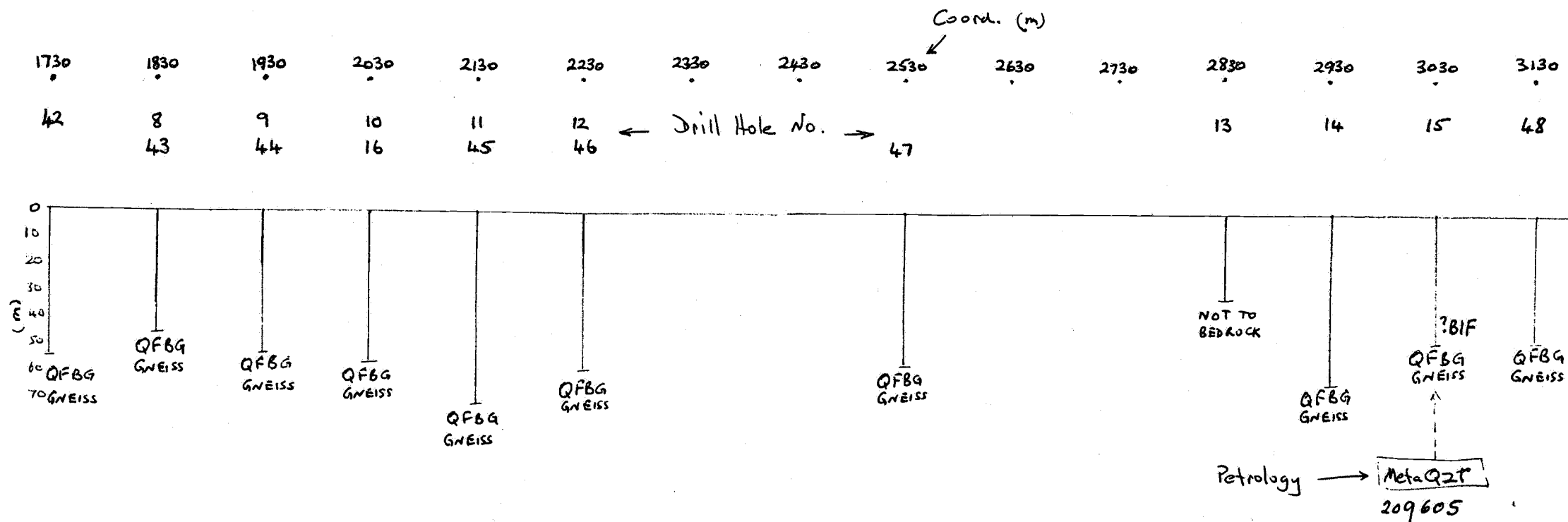
CUMMINS - LINE 18



CUMMINS - LINE 20



BROOKER - LINE 4

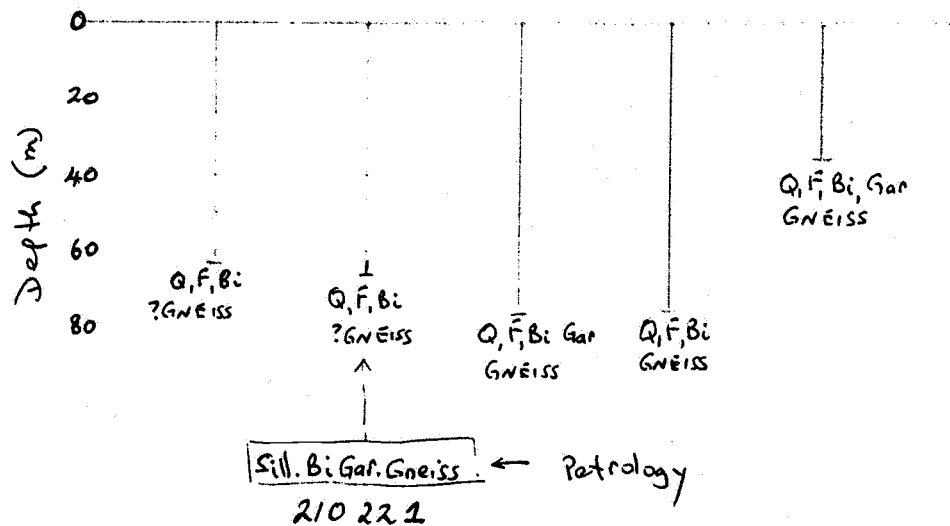


BROOKER - LINE 5

3780	3880	3980	4080	4180
53	49	50	51	52

Coord. (m)

Drill Hole No.





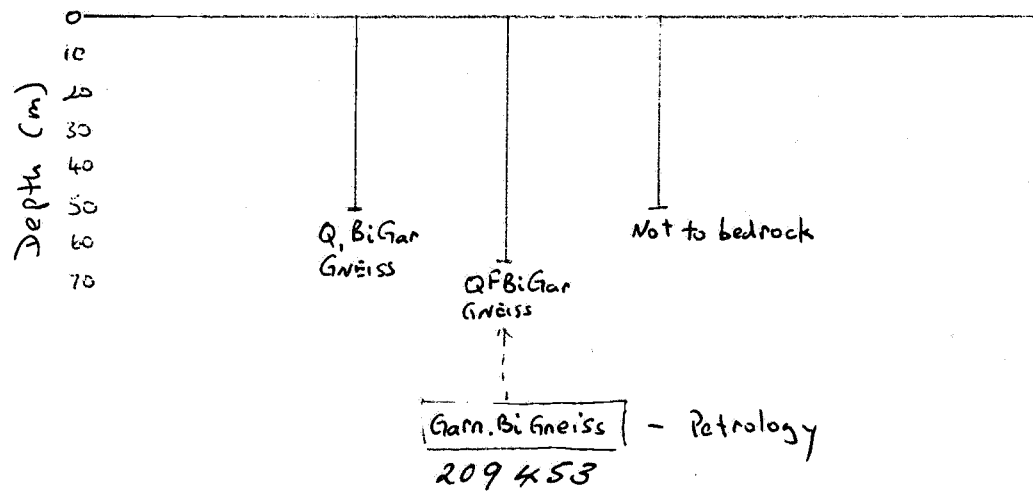
# BROOKER - LINE 6

2480      2580      2680      2780      2880      2980

5      6      7

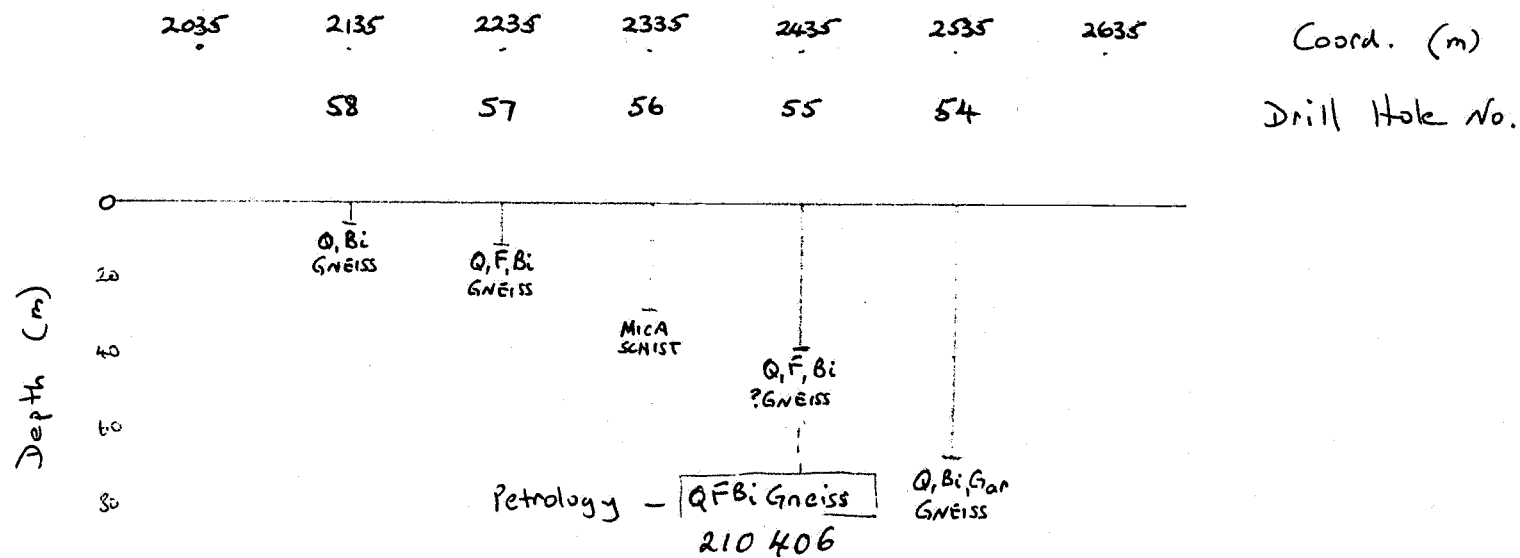
Coord. (m)

Drill Hole No.

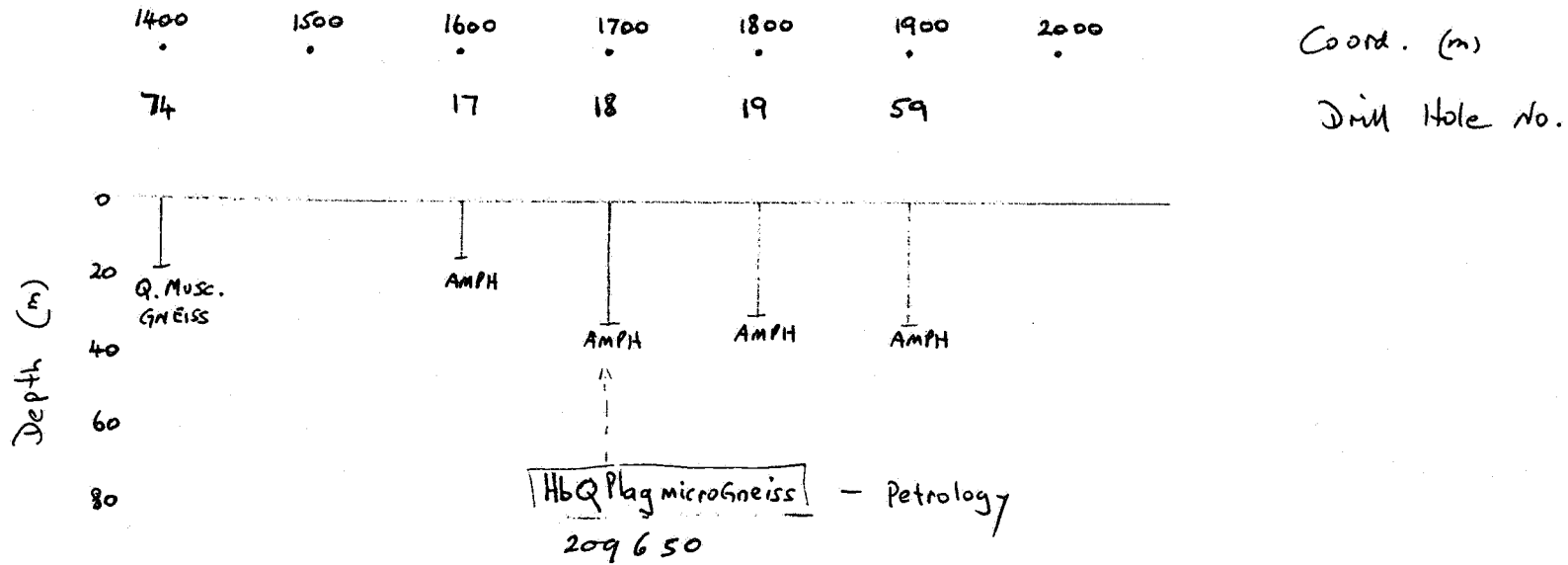


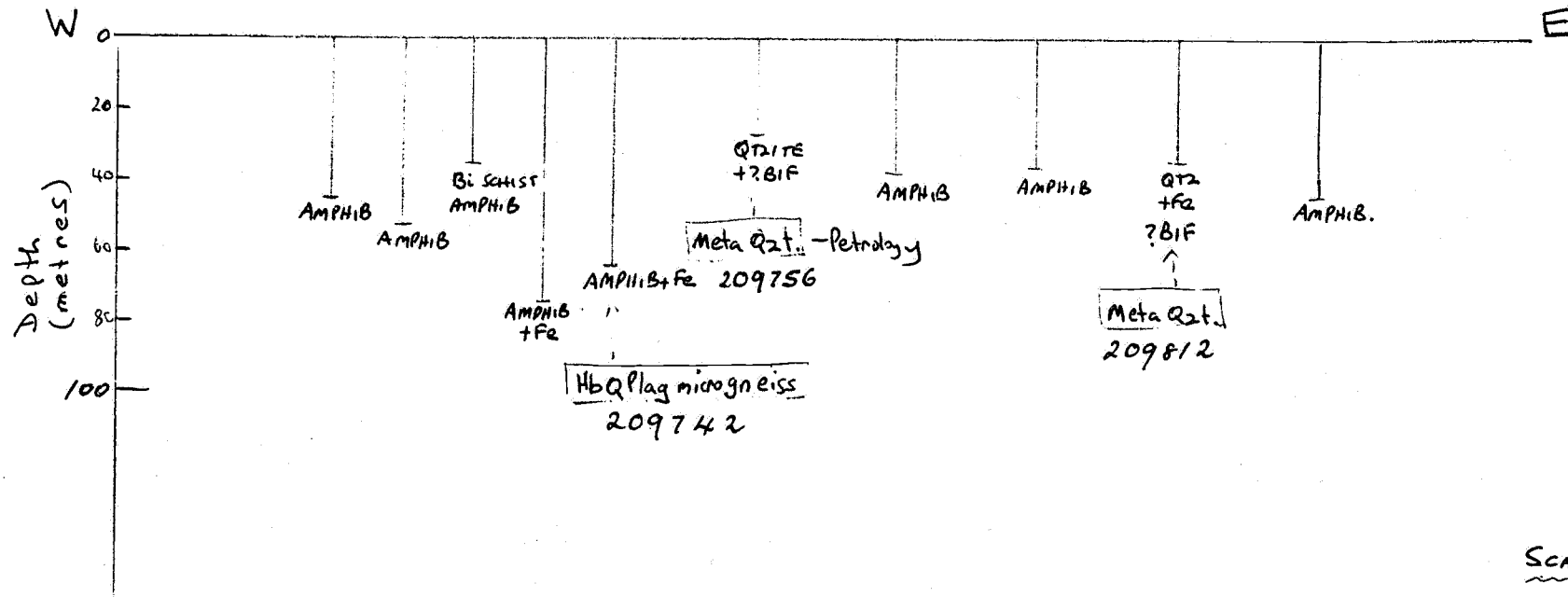
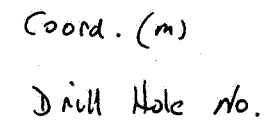
Scale ÷ 1:5000

Brooker - LINE 7



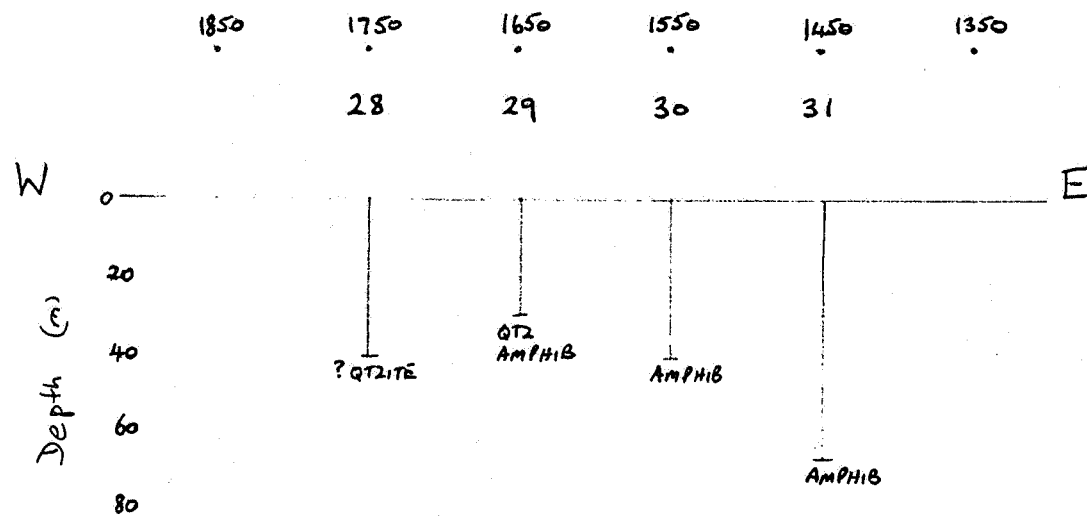
UNGARRA - LINE 16





SCALE    H    1:5,000  
              V    1:2,000

UNGARRA - LINE 21



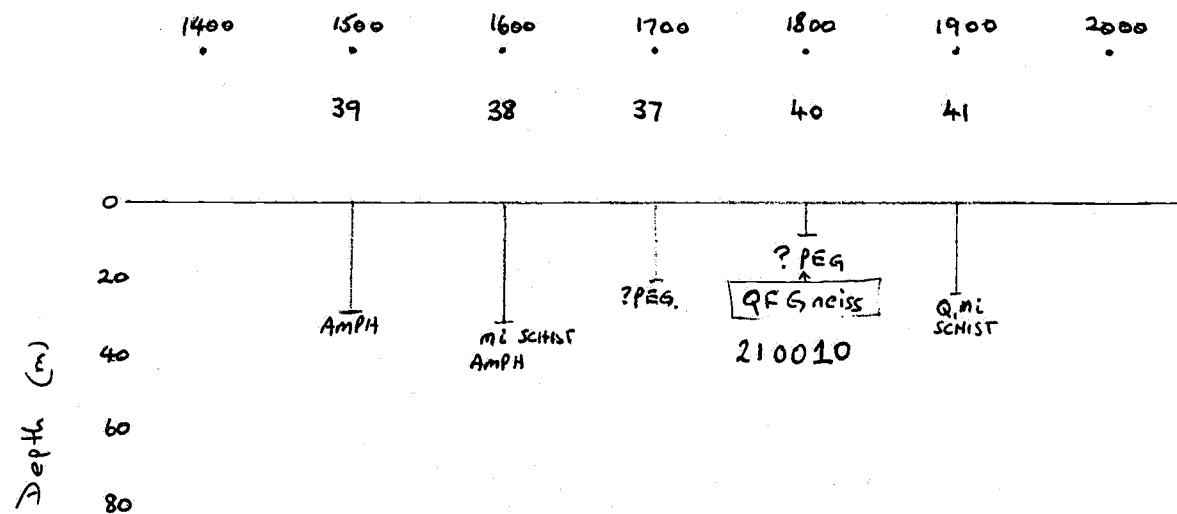
Coor. (m)

Drill Hole No.

Coord. (m)

Drill Hole no.

BUTLER — LINE 13

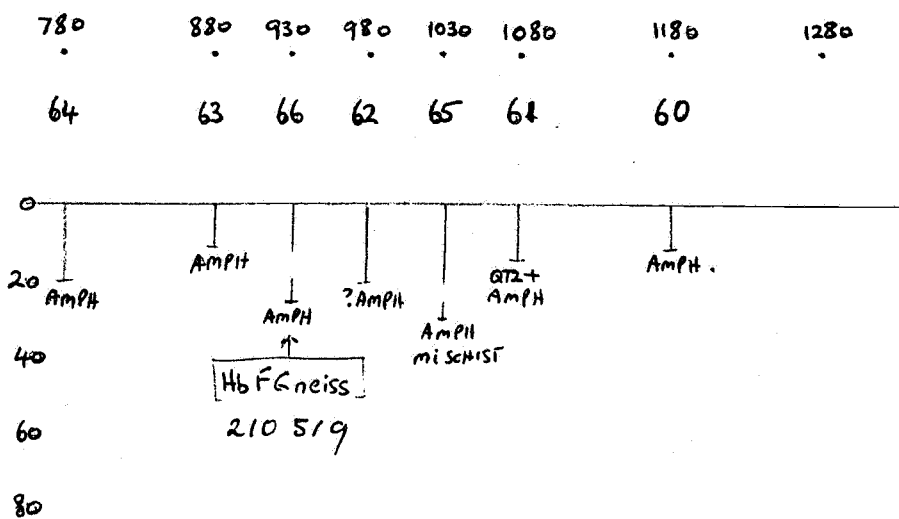


Coordinate (m)

Drill Hole No.

Surface (unlevelled)

BUTLER - LINE 14

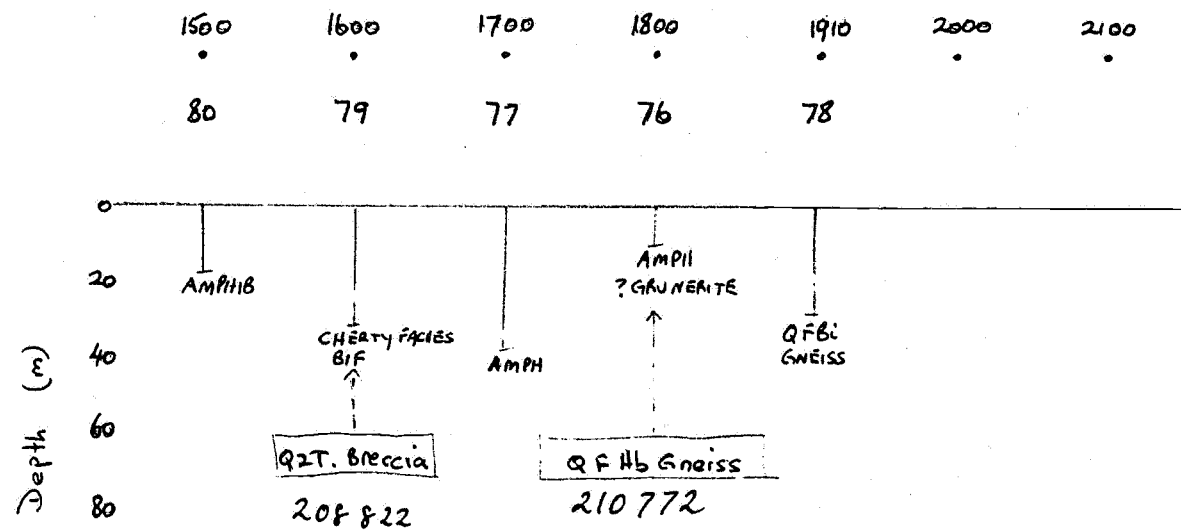


Coord. (m)

Drill Hole No.



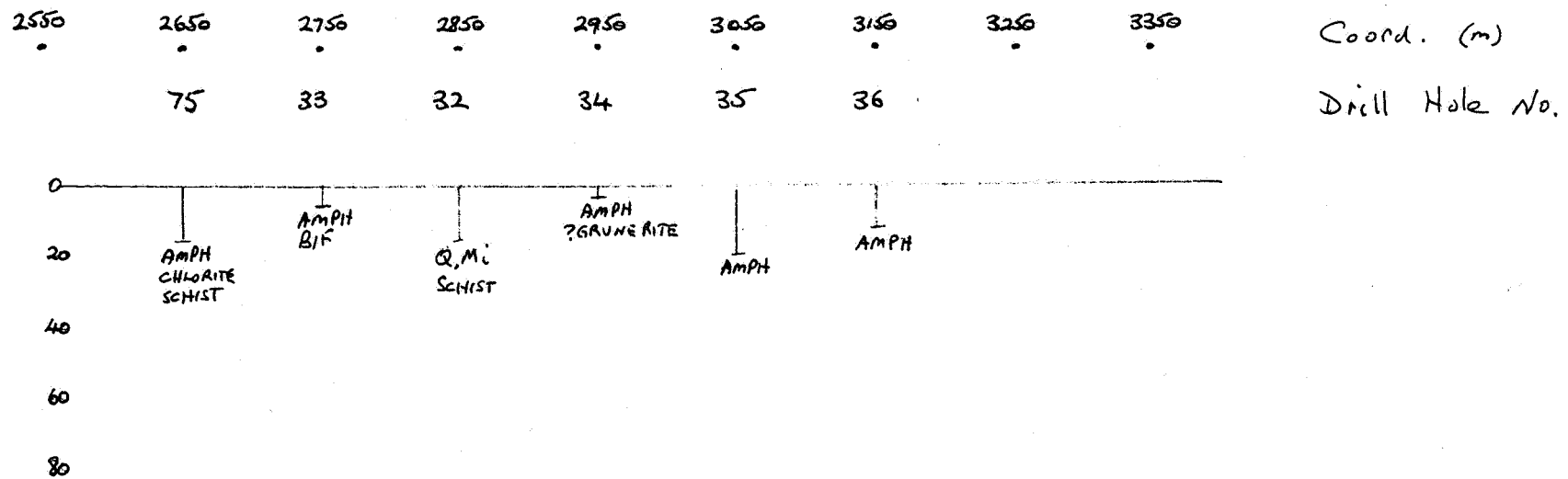
BUTLER - LINE 15



Coord. (m)

Drill Hole No.

BUTLER - LINE 22



PROJECT 5428

CSR LIMITED  
MINERALS EXPLORATION AND DEVELOPMENT GROUP

RELINQUISHMENT REPORT FOR  
EXPLORATION LICENCE 1266  
CUMMINS AREA, SOUTH AUSTRALIA

VOLUME 2

EMR 170/86

D.G. Tonkin  
Consulting Geologist  
J.L. Curtis  
MEDG - Adelaide

October, 1986

**APPENDIX 5**

Field Drill Logs for RAB Drilling Programme  
Holes CUM1 to CUM80

# PACMINEX PTY. LTD.—FIELD DRILL LOG

186

HOLE No. CUM # 1

PAGE 1 OF 2

PROJECT: CUMMINS DATE STARTED: 17.4.85  
 AREA: EUREPENINSULA COORDINATES: 2750  
 LOCATION: TRAVERSE 20  
 STARTED: ELEVATION:  
 COMPLETED: DEPTH: 34 m

TYPE OF DRILL: TR3, IR  
 HOLE SIZE: 6"  
 CONTRACTOR: P. NITSCHE DRILLING  
 DRILLER:  
 LOGGED BY: J. DUNN / T. JUST

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	ORANGE CLAYEY SAND.	209301	2						
4.0	ORANGE BROWN CALC CLAYEY SAND.	209302	2						
6.0	RED BROWN CLAYEY SAND + ROUNDED FG. GRANULES TO 3mm.	209303	2						
8.0	RED BROWN CLAYEY SILT + ROUNDED FG. GRANULES TO 3mm	209304	2						
10.0	RED BROWN / GRAY MOTTLED CLAYEY SILT + OCC SAND GRANULES.	209305	2						
12.0	RED BROWN / GRAY MOTTLED CLAYEY SILT OCC ROUNDED FG. GRAINS + SAND GRAINS	209306	2						
14.0	RED BROWN SILT. OCC. FERRUGINOUS CEMENTED CLASTS (TO 1cm)	209307	2						
16.0	PALF GRAY TO RED BROWN WELL SORTED SILT + SILTSTONE (V. FINE SAND)	209308	2						
18.0	YELLOW / ORANGE RED SILT (LOOSE) (V. FINE SAND)	209309	2						
20.0	YELLOW / WHITE LOOSE SILT + CEMENTED SILTSTONE (V. FINE SAND)	209310	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....COORDINATES:.....HOLE SIZE:.....

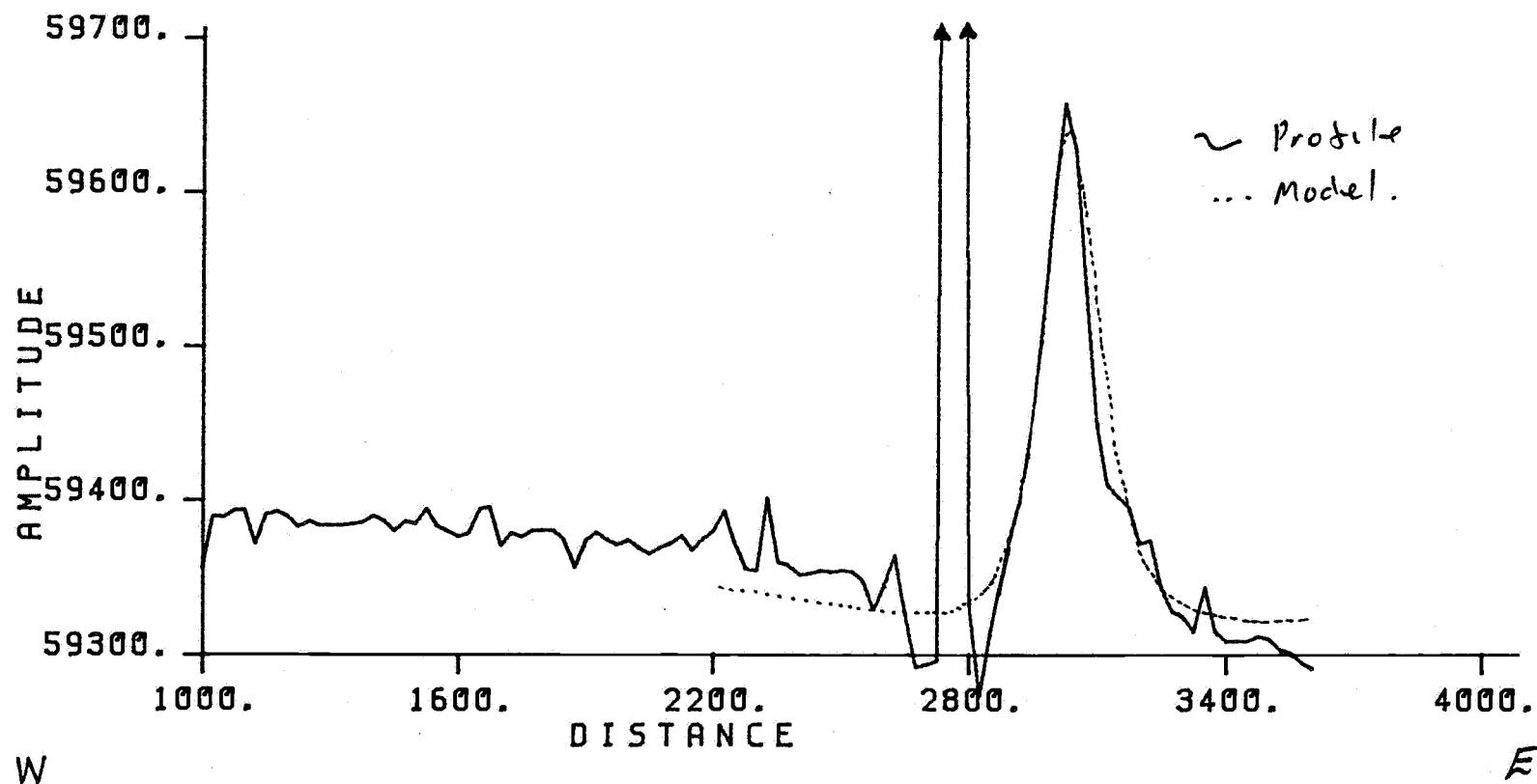
LOCATION:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
22	LOOSE F.G. BUFF TO LIGHT BROWN SAND	311	2						
24		312	2						
26		313	2						
28	+ OCC ROUNDED QTZITE PEBBLES TO 3cm	314	2						
30		315	2						
32	+ OCC ROUNDED QTZITE PEBBLES TO 3cm.	317	2						
34	SAND FLOWING IN AT 28m HOLE ABANDONED AT 34m.	318	2						

# BUTLER - CUMMINS - TRAVERSE NO. 22



PACMINEX PTY. LTD.—FIELD DRILL LOG

188

PROJECT: CUMMINS DATE STARTED: 17.4.85 TYPE OF DRILL: TR3, I.R.  
AREA: EYRE PENINSULA. COORDINATES: 2650 HOLE SIZE: 6"  
LOCATION: TRAVERSE 20 CONTRACTOR: P. MITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 80 m LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	BROWN SANDY LOAM + CALCAREOUS	209318	2						
4.0	CALCRETE + BUFF CLAYEY SILT	319	2						
6.0	ORANGE / RED BROWN CLAYEY SILT	320	2						
8.0	TOCC QTZ GRAINS + FE GRANULES.	321	2						
10.0		322	2						
12.0	RED BROWN POORLY SORTED SILT + SAND	323	2						
14.0	WHITISH TO DARK RED (FERRUGINOUS) V.F. G. SANDSTONE & SAND.	324	2						
16.0	ALL CEMENTED	325	2						
18.0	WHITE TO ORANGE V.F. G. SST. (ALL CEMENTED.)	326	2						
20.0	+ GREY SILTY CLAY	327	2						



PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION: .....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	V. FINE GRAINED BUFF COLOURED LOOSE SAND.	.	209328	2						
24		.	329	2						
26		.	330	2						
28	FINE TO MED. LOOSE SAND + OCC QZ + QZITE PEBBLES + GRAVLES.	.	331	2						
30	SANDY GRAVEL	.	332	2						
	MANY ROUNDED PEBBLES + GRAVLES									
32	SANDY GRAVEL	.	333	2						
34	MED GRAINED LOOSE SAND + CLASTS OF QZ, QZITE + PHILLITE TO 2cm	.	334	2						
36		.	335	2						
38	+ V. MAJOR LIGNITE + GRAY BROWN CLAY	.	336	2						
	GREY MICACEOUS CLAY	.	337	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

190

PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... HOLE SIZE:.....  
LOCATION:..... COORDINATES:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
42	GREY BROWN MICACEOUS SILTY CLAY	209338	2						
44	+ WOOD FRAGS	339	2						
46		341	2						
48		342	2						
50	+ WOOD FRAGS.	343	2						
52		344	2						
54	+ COARSE SAND	345	2						
56	FINE SLATEY CARB. SAND + MINOR COARSE SAND + GRAVELS PEBBLES OR PHYLITE + OCC. QTZ.	346	2						
58	GREY BROWN FINE CLAYEY SAND + PHYLITE + QTZ GRAVELS.	347	2						
	GREY BROWN CLAYEY SAND	348	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

191

HOLE No. Cum # 2  
PAGE 4 of 4

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION: .....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED: .....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
	GREY CLAYW SAND + PYRITE									
	CLUSTERS, PHYLITE + QZ									
	GRAVEL + OCC PEBBLES									
62			209349	2						
64			350	2						
66			351	2						
68			352	2						
70			353	2						
72			354	2						
74			355	2						
76			356	2						
78			357	2						
	OUT OF LOGS		358	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

192 HOLE No. Cum #3  
PAGE 1 OF 2

PROJECT: CUMMINS DATE STARTED: 18.4.85 TYPE OF DRILL: TR3, I.R.  
AREA: EYRE PENINSULA COORDINATES: 2850 HOLE SIZE: 6"  
LOCATION: TRAVERSE 20 ELEVATION: \_\_\_\_\_ CONTRACTOR: P. MITCHELL DRILLING  
STARTED: \_\_\_\_\_ DEPTH: 32m DRILLER: \_\_\_\_\_  
COMPLETED: \_\_\_\_\_ LOGGED BY: J. DUNN / T. JUST

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
	CONTAMINATION								
2.0		20938	2						
	ORANGE-YELL. CLAYEY SILT + OCC FERRUGINOUS CLASTS.								
4.0		360	2						
	RED-BROWN CLAYEY SILT + FERRUGINOUS CLASTS								
6.0		361	2						
	MOTTLED GREY OR RED STICKY SILTY CLAY								
8.0									
10.0		363	2						
12.0		364	2						
14.0		365	2						
16.0		366	2						
	W.F.G. WHITE TO OR. SST.								
	WHITE OR RED BR. V.F.G. SST								
18.0		368	2						
20.0		369	2						
	+ LOOSE RED / ORANGE SAND (V.F.G)								

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....HOLE SIZE:.....

LOCATION:.....COORDINATES:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
22	V.F.G. LOOSE ORANGE SAND	259370	2						
24	————— (Also Brown)	371	2						
26	V.F.G. BUFF LOOSE SAND	372	2						
28	—————	373	2						
30	F. TO M. LOOSE GRAVELLY SAND Occ. CLASTS (ROUNDED QTZITE) To 1cm	374	2						
32	F.G. BUFF LOOSE SAND	375	2						
	HOLE ABANDONED : HOLE COLLARING OFF								
	END 32m								

PACMINEX PTY. LTD.—FIELD DRILL LOG

194

HOLE No. Cum 4

PAGE 1 OF 2

TYPE OF DRILL: TR3, I.R.

HOLE SIZE: 6"

CONTRACTOR: P. NITSCHE DRILLING

DRILLER:

LOGGED BY: J. DUNN / T. JUST.

PROJECT: CUMMINIS

DATE STARTED: 19.4.85

AREA: E. IRELAND PENINSULA

COORDINATES: 1450

LOCATION: TRAVERSE 18

ELEVATION:

STARTED:

DEPTH: 30 m

COMPLETED:

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	ORANGE SILTY CLAY	209376	2						
4.0	BUFF SILTY CLAY + OCC SAND GRAINS	377	2						
6.0	BUFF CLAY	378	2						
8.0	MOTTLED GREY / RED CLAY	379	2						
10.0	MOTTLED GREY / RED SANDY CLAY	380	2						
12.0	+ FERRUGINOUS ZONES	382	2						
14.0	V.F.G. OFF WHITE / RED SST + CLAY	383	2						
16.0		384	2						
18.0		385	2						
20.0	KHAKI CLAY + GREY SILT	386	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

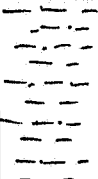
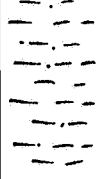
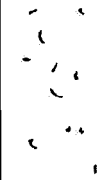

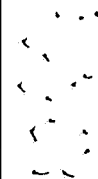





PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....HOLE SIZE:.....

LOCATION:.....COORDINATES:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	ORANGE FINE		387 209	2						
	LOOSE SANDY SILT									
24			388	2						
26	FINE ORANGE / YELL SAND		389	2						
28	V. FINE BUFF SAND		390	2						
30			391	2						
	HOLE CAVING (LOOSE SAND)									
	ABANDONED 30m.									
										
										
										
										

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum # 5

196

PAGE 1 OF 3

PROJECT: CUMMINS

DATE STARTED: 19.4.85

TYPE OF DRILL: TR3, I.R.

AREA: E.I. RE PENINSULA

COORDINATES: 2580

HOLE SIZE: 6"

LOCATION: TRAVERSE 6

CONTRACTOR: P. NITSCHE DRILLING

STARTED:

ELEVATION:

DRILLER:

COMPLETED:

DEPTH: 50.50 m

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Co	Pb	Zn	Ni	Mn
2.0	CALCRETE		202393	2						
4.0	BLUE GREEN CALC. CLAYEY SAND		394	2						
	BUFF									
	OFF WHITE LIMESTONE (CALCRETE?)									
6.0	+ ORANGE COARSE LOOSE SAND.		395	2						
8.0	ORANGE CLAYEY M.G. SAND		396	2						
10.0	+ GREY		397	2						
	RED CLAYEY M.G. LOOSE SAND									
	OCC. FERRUGINOUS GRANULES (ROUNDED)									
12.0			398	2						
14.0	RED CLAYEY M.G. SAND + ROUNDED FE GRANULES		399	2						
16.0	BUFF CLAYEY SAND		400	2						
18.0			401	2						
20.0	GREY V. MICACEOUS CLAY ? WEATHERED SCHIST		402	2						



PACMINEX PTY. LTD.—FIELD DRILL LOG

197

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	GRAY V. MICACEOUS CLAY ? WEATH- ERED SCHIST	—	209403	2						
		—								
		—								
24		—	404	2						
		—								
		—								
26		—	405	2						
		—								
		—								
28		—	406	2						
		—								
		—								
30		—	407	2						
		—								
		—								
32	? GRAY CLAYEY SAND (PYRITE CLUSTERS) + ABUNDANT ANGULAR QTZ CLASTS (TO 1CM) + ? MARCASITE	—	408	2						
		—								
		—								
34	? GRAY CLAYEY SAND. ABUNDANT ANGULAR QTZ CLASTS (TO 1CM) + PYRITE + MARCASITE	—	409	2						
		—								
		—								
36		—	410	2						
		—								
		—								
38	? INCLUDES GNEISS FRAGMENTS	—	411	2						
		—								
		—								
40	BLuish CLAY + ABUNDANT ANGULAR MUSCOVITE GNEISS FRAGMENTS	—	413	2						
		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

198

PROJECT:.....

DATE STARTED:.....

TYPE OF DRILL:.....

AREA:.....

COORDINATES:.....

HOLE SIZE:.....

LOCATION:.....

ELEVATION:.....

CONTRACTOR:.....

STARTED:.....

DEPTH:.....

DRILLER:.....

COMPLETED:.....

LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Pb	Zn	Ni	Co	
42	FINE ANGULAR GRAVEL ABUNDANT GNEISS CLASTS (TO 0.5cm)		209414	2						
44	COARSE GREYISH SAND + BLUE GRAY SANDY CLAY (+ OCC GNEISSIC CLASTS TO 0.5cm)		415	2						
46	ANGULAR		416	2						
48	COARSE SAND TO GRAVEL. ABUNDANT GNEISSIC MATERIAL.		417	2						
50	BED ROCK QTZ BIOTITE GNEISS ABUNDANT CONTAMINATION FROM COARSE SAND + GRAVEL		418	2						
	50.50 END OF HOLE.		419	0.5	70	8	42	10	6	

# PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum # 6

199

PAGE 1 OF 4

PROJECT: CUMMINS

DATE STARTED: 19.4.85

TYPE OF DRILL: TR3, I.R.

AREA: E.I. PENINSULA

COORDINATES: 2680

HOLE SIZE: 6"

LOCATION: TRAVERSE 6

ELEVATION:

CONTRACTOR: P. MITCHELL DRILLING

STARTED:

DEPTH: 64.25 m

DRILLER:

COMPLETED:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	CALCRETE (WHITISH)	209420	2						
4.0	CALCRETE (WHITISH)	421	2						
6.0	CALCRETE (YELLOW)	422	2						
8.0	ORANGE WEAKLY CALCAREOUS M. TO COARSE SLIGHTLY CLAYEY SAND	423	2						
10.0	CLAYEY	424	2						
12.0	ORANGE BROWN SAND + ROUNDED FE CLASTS (2-5mm)	425	2						
14.0	OLIVE GREEN med TO COARSE CLAYEY SAND + occ FE CLASTS (ROUNDED)	426	2						
16.0	BUFF	427	2						
18.0	BUFF	428	2						
20.0	OLIVE GR BROWN med TO COARSE CLAYEY SAND + occ FE CLASTS (RND)	429	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....COORDINATES:.....HOLE SIZE:.....

LOCATION:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	GREY / BROWN CLAYEY SAND		209430	2						
	F.T.O.M									
24	GREY CLAYEY SAND + GREY MICA -		431	2						
	CEOUS CLAY									
	CLAYEY									
26	GREY F.T.O.M. SAND		432	2						
28	GREY / GREEN / BROWN CLAYEY SAND		434	2						
30	KHAKI CLAYEY SAND		435	2						
	+ ABUNDANT FERRUGINOUS ZONES									
32	ORANGE / KHAKI CLAYEY SAND		436	2						
	(1% RICH)									
34	KHAKI CLAYEY SAND (+ RED		437	2						
	FE RICH SPOTS 1-2cm)									
36	V. COARSE SAND		438	2						
38	MED TO C. YELLOW SAND		439	2						
40	? + ABUNDANT 1-2cm FERRUGINOUS		440	2						
	SAND CLASTS									

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION: .....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED: .....

LOGGED BY: .....

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
42	ORANGE (KHAKI) CLAYEY SAND.	209441	2						
44	V. COARSE SAND / FINE GRAVEL.	442	2						
46	? FINE SAND + MINOR ANG. (V. LIQUID QZ. & PLIOTIC FE. SAMPLES) + FE SANDS CONCENTRATIONS	443	2						
48	? —————	444	2						
50	? —————	445	2						
52	? —————	446	2						
54	? —————	447	2						
56	? —————	448	2						
58	? —————	449	2						
60	? —————	450	2						

# PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum #6

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PAGE 4 OF 4

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

.....

HOLE SIZE: .....

LOCATION:.....

.....

CONTRACTOR: .....

STARTED:.....

ELEVATION:.....

DRILLER: .....

COMPLETED: .....

DEPTH: .....

LOGGED BY: .....

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT: CUMMINIS  
AREA: E. IRE PENNINSULA  
LOCATION: TRAVERSE 6  
STARTED:  
COMPLETED:

DATE STARTED: 19.4.85  
2780  
COORDINATES:  
ELEVATION:  
DEPTH: 50 m

TYPE OF DRILL: TR3, I.R.  
HOLE SIZE: 6"  
CONTRACTOR: P. MITSCHE DRILLING  
DRILLER:  
LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Co	Pb	Zn	NI	Mn
2.0	CALCRETE		209454	2						
4.0	CALC. CLAY SILT (PARTLY CONCRETED)	----	455	2						
		----								
		----								
		----								
6.0	CALCRETE		456	2						
8.0			457	2						
10.0	PISOLITIC V. COARSE FERRUGINOUS SAND	.....	458	2						
		.....								
		.....								
		.....								
12.0	COARSE FERRUGINOUS SAND.	.....	459	2						
		.....								
		.....								
		.....								
14.0		.....	460	2						
		.....								
		.....								
		.....								
16.0	PISOLITIC CLAYEY SAND	.....	461	2						
		.....								
		.....								
		.....								
18.0	RED CLAYEY SAND.	.....	462	2						
		.....								
		.....								
		.....								
20.0		.....	463	2						
		.....								
		.....								
		.....								

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED:.....

TYPE OF DRILL:.....

AREA:.....

COORDINATES:.....

HOLE SIZE:.....

LOCATION:.....

ELEVATION:.....

CONTRACTOR:.....

STARTED:.....

DRILLER:.....

COMPLETED:.....

DEPTH:.....

LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	PALE RED / BROWN CLAYEY SAND	-	209464	2						
24	-	-	465	2						
26	-	-	466	2						
28	-	-	467	2						
30	-	-	468	2						
32	-	-	470	2						
34	GREY BROWN CLAYEY SAND.	-	471	2						
36	-	-	472	2						
38	-	-	473	2						
40	-	-	474	2						



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HOLE No. Cum 7  
PAGE 3 OF 3

PROJECT:.....	DATE STARTED: .....	TYPE OF DRILL: .....
AREA:.....	COORDINATES: .....	HOLE SIZE: .....
LOCATION:.....		CONTRACTOR: .....
STARTED:.....	ELEVATION:.....	DRILLER: .....
COMPLETED: .....	DEPTH: .....	LOGGED BY: .....

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. CUM # 8

206

PAGE 1 OF 2

PROJECT: CUMMINIS  
AREA: EUREPENINSULA  
LOCATION: TRAVERSE 4  
STARTED:  
COMPLETED:

DATE STARTED: 20.4.85  
1830  
COORDINATES:  
ELEVATION:  
DEPTH: 34 m

TYPE OF DRILL: TR3, I.R.  
HOLE SIZE: 6"  
CONTRACTOR: P. NITSCHE DRILLING  
DRILLER:  
LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	RED / ORANGE WEAKLY CEMENTED SANDS SILT	209480	2						
4.0		481	2						
6.0	ORANGE TO WHITE WELL SORTED F.G. SANDS.	482	2						
8.0	FINE WELL SORTED WHITE F.G. SAND LOOSE (WITH MINOR CEMENTED AREAS)	483	2						
10.0	F.G. ORANGE FERRICERUS SAND MOTTLED CLAYEY COARSE BOUNDED SAND.	484	2						
12.0	ORANGE / BROWN FERRIC. CLAYEY SAND + FERRICERUS CLASTS (TO 2cm)	485	2						
14.0	WHITE CLAY ? WEATHERED GRANITE ?	486	2						
16.0		487	2						
18.0		489	2						
20.0	YELLOW CLAY ? WEATHERED GRANITE	490	2						

# PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....	DATE STARTED: .....	TYPE OF DRILL: .....
AREA: .....	COORDINATES: .....	HOLE SIZE: .....
LOCATION:.....		CONTRACTOR: .....
STARTED:.....	ELEVATION:.....	DRILLER: .....
COMPLETED:.....	DEPTH: .....	LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	YELLOW CLAY + FINE QZ CLASTS		491	2						
	WEATHERED ? SCHIST									
24			492	2						
26			493	2						
28			494	2						
	+ DK GREEN WEATHERED SCHIST									
30			495	2						
32	DK GREEN WEATHERED QZ BOTITE SCHIST		496	2						
34			497	2						
		</								

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT: CUMMINS  
AREA: EYRE PENINSULA  
LOCATION: TRAVERSE 4  
STARTED:  
COMPLETED:

DATE STARTED: 20.4.85  
COORDINATES: 1930  
ELEVATION:  
DEPTH: 20 m

TYPE OF DRILL: TR3, I.R.  
HOLE SIZE: 6"  
CONTRACTOR: P. NITSCH DRILLING  
DRILLER:  
LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
2.0	SILT / SAND.	209498	2						
4.0	MOTTLED SANDY SILT, WEAKLY CEMENTED	499	2						
6.0	WEAKLY CEMENTED YELLOW SANDY SILT.	500	2						
8.0	V.F. WHITE WELL SORTED LOOSE SAND.	501	2						
10.0	ORANGE / BROWN SANDY CLAY	502	2						
12.0	+ WHITISH SAND.	503	2						
14.0	OFF WHITE CLAY (WEATHERED BASEMENT)	504	2						
16.0		505	2						
18.0	OLIVE GREEN CLAY (UNWEATHERED BASEMENT)	506	2						
20.0	QTZ, KALSIAR, BIOTITE SCHIST	507	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum #10  
PAGE 1 OF 1

209

PROJECT: CUMMINS DATE STARTED: 20.4.85 TYPE OF DRILL: TR3, IR  
AREA: EUREPENNINSULA COORDINATES: 2030 HOLE SIZE: 6"  
LOCATION: TRAVERSE 4 CONTRACTOR: PMITCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 20 m LOGGED BY: J DUNN / T JUST

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
2.0	CLAYEY SILT.	29508	2						
4.0	ORANGE RED SAND PARTLY CLAYEY	509	2						
6.0	MED TO COARSE LOOSE SAND.	510	2						
8.0	MED GR LOOSE YELLOW SAND.	511	2						
10.0	ORANGE CLAYEY SAND.	512	2						
12.0	V. PALE BROWN WITH WEATHERED ? GRANITE	513	2						
14.0	V. PALE GREEN WITH WEATHERED ? GRANITE	514	2						
16.0		515	2						
18.0		516	2						
20.0	See Cum 16.	517	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT: CUMMINIS

AREA: EUREPENINSULA

LOCATION: TRAVERSE 4

STARTED:

COMPLETED:

DATE STARTED: 20.4.85

COORDINATES: 2130

ELEVATION:

DEPTH: 12 m

TYPE OF DRILL: TR3, IR

HOLE SIZE: 6"

CONTRACTOR: P. MITSCHE DRILLING

DRILLER:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Co	Pb	Zn	Ni	Mn
2.0	MOTTLED CLAY	— —	209519	2						
		— —								
		— —								
		— —								
4.0	MOTTLED CEMENTED SILT.	— —	520	2						
		— —								
		— —								
		— —								
6.0	WHITISH WEATHERED SCHIST	— —	521	2						
		— —								
		— —								
		— —								
8.0	PINK / GREY / YELLOW WEATHERED SCHIST	— —	522	2						
		— —								
		— —								
		— —								
10.0	BUFF WEATHERED SCHIST	— —	523	2						
		— —								
		— —								
		— —								
12.0	WEATHERED QTZ, FELD, BIOTITE SCHIST	— —	524	2						
		— —								
		— —								
		— —								
	bwd. 12m	— —								
	See Cum 45	— —								
		— —								
		— —								
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		— —								



PACMINEX PTY. LTD.—FIELD DRILL LOG

212

PROJECT: CUMMINS DATE STARTED: 20.4.85 TYPE OF DRILL: TR3 IR  
AREA: EUREPENINSULA COORDINATES: 2830 HOLE SIZE: 6"  
LOCATION: TRAVERSE 4 ELEVATION: DRILLER: P. MITSCHE DRILLING  
STARTED: LOGGED BY: J. DUNN / T. JUST.  
COMPLETED: DEPTH: 32m

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
2.0	RED BROWN CLAY.	209532	2						
4.0	YELL / OR. PARTLY CEMENTED SILT	533	2						
6.0	RED / BROWN FINE TO COARSE FERRUG SAND	534	2						
8.0	RED / BR CLAY YELLOW TO WHITISH FINE TO COARSE SAND	535	2						
10.0	F. TO COARSE RED / OR. SAND.	536	2						
12.0	F. TO COARSE ORANGE SAND.	537	2						
14.0	SOME FE CEMENT	538	2						
16.0	CREAM COL. WEATHERED ? SCHIST	540	2						
18.0	WFF	541	2						
20.0		542	2						



PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. Cum 13  
PAGE 2 OF 2

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Pb	Zn	Ni	Co	
22	buff to red brown WEATHERED SCHIST	—	209543	2						
		—								
		—								
		—								
24	Brown finely divided ? WEATHERED SCHIST	—	544	2						
		—								
		—								
		—								
26		—	545	2						
		—								
		—								
		—								
28	OLIVE GREEN WEATHERED SCHIST	—	546	2						
	POSS. AMPHIBOLITE	—								
		—								
		—								
30		—	547	2						
		—								
		—								
		—								
32		—	548	2	44	22	80	50	8	
		—								
		—								
		—								
	END 32.0m	—								
		—								
	NOT TO HARD BASEMENT	—								
		—								
		—								
		—								
		—								
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		—								
		—								
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		—								
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		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. 14  
PAGE 1 OF 4

PROJECT: CUMMINS DATE STARTED: 20.4.85 TYPE OF DRILL: TR3, I.R.  
AREA: EUREPENINSULA COORDINATES: 2930 HOLE SIZE: 6"  
LOCATION: TRAVERSE 4 CONTRACTOR: P.MITCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 64 m LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
2.0	RED BROWN SANDY CLAY.	209549	2						
4.0	RED BROWN SANDY CLAY.	550	2						
6.0	ORANGE TO RED F. TO COARSE PARTLY FERRICRUSTED SAND.	551	2					/	
8.0	F. TO COARSE CRUMBLING SAND.	552	2						
10.0	F. TO COARSE V. CRUMBLING SAND. BLUE TO R. BROWN	553	2		/				
12.0	ORANGE.	554	2						
14.0	RED / BROWN	555	2						
16.0	BROWN CRUMBLING SAND + WEATHERED BEDROCK.	556	2						
18.0	BLUE COB FELDSPATHIC ? SCHIST WEATHERED	557	2						
20.0		558	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. CUM 14

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PAGE 2 OF 4

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....HOLE SIZE:.....

LOCATION:.....COORDINATES:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	BUFF-RED FELDSPAR RICH WEATHERED BASALT		209559	2						
24			560	2						
26	PURPLE WEATHERED ? SCHIST		561	2						
28			562	2						
30			563	2						
32	RED BROWN		564	2						
34			565	2						
36	OLIVE GREEN		566	2						
38			567	2						
40			569	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:..... DATE STARTED: .....

AREA:..... COORDINATES: .....

LOCATION:..... CONTRACTOR: .....

STARTED:..... ELEVATION:..... DRILLER: .....

COMPLETED:..... DEPTH: ..... LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	BROWN / PURPLE CLAY (WEATHERED B'MENT)		570	2						
	INCREASING AMOUNT OF LESS									
	WEATHERED MATERIAL.									
44			571	2						
46			572	2						
48			573	2						
50			574	2						
52			575	2						
54			576	2						
56			577	2						
58			578	2						
60			579	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....HOLE SIZE:.....

LOCATION:.....COORDINATES:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
62			209580	2						
64	QTZ FELDSPAR BIOTITE GNEISS (FRESH)	~ ~	209581	2						
		~ ~								
		~ ~								
		~ ~								
		~ ~								
	END 64m	~ ~								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. CUM 15  
PAGE 1 OF 3

PROJECT: CUMMINS DATE STARTED: 20-4-85 TYPE OF DRILL: TR3, I.R.  
AREA: EYRE PENINSULA COORDINATES: 3030 HOLE SIZE: 6"  
LOCATION: TRAVERSE 4 CONTRACTOR: P. NITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 48m LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	RED BROWN CLAY	209582	2						
4.0		583	2						
6.0	RED BROWN PISOLITIC GRAVEL	584	2						
8.0	RED BROWN CLAY WHITE CEMENTED F. TO COARSE SAND.	585	2						
10.0		586	2						
12.0	FINE CEMENTED SAND	587	2						
14.0	LOOSE MED TO COARSE SAND	588	2						
16.0		590	2						
18.0	LOOSE M. TO COARSE ORANGE SAND	591	2						
20.0	FERRICISED SAND	592	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. 15 cm  
PAGE 2 OF 3

PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... HOLE SIZE:.....  
LOCATION:..... COORDINATES:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	COARSE - FERRICRETED SAND		209593	2						
24	RED MICACEOUS CLAY + COARSE SAND GRAINS.		594	2						
26	BLUE - GREY MICACEOUS CLAY. ? WEATHERED SCHIST.		595	2						
28	" "		596	2						
30	" "		597	2						
32	GRITTY GREY MICACEOUS CLAY. WEATHERED SCHIST. A		598	2						
34	GREY CLAY + ABUNDANT GRANULAR SIZED ROCK FRAGMENTS (COARSE GRAINED QZL FELD) (? GARNET) BIOTITE ? GYPSUM		599	2						
36			600	2						
38			601	2						
40			602	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 15

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PAGE 3 OF 3

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....HOLE SIZE:.....

LOCATION:.....COORDINATES:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	Pale brown clay + abundant brown ferrug	---	509603	2						
	inous chips of ? (to 2cm)	---								
	ferruginised gneiss	---								
		---								
44		---	604	2						
		---								
		---								
		---								
46		---	605	2						
		---								
		---								
		---								
48	FRESH ROCK IS Qtz, feld, biotite GARNET	~~~~~	606	2						
	END-48m GNEISS	~~~~~								
	V. SIMILAR TO CUM #6	~~~~~								
		~~~~~								



PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT: CUMMINIS  
AREA: E.I. PENINSULA  
LOCATION: TRAVERSE 4  
STARTED:  
COMPLETED:

DATE STARTED: 22/4/85  
COORDINATES: 2030  
R6064E  
ELEVATION:  
DEPTH: CUM 10 REPEATED 56m

TYPE OF DRILL: TR3, I.R.  
HOLE SIZE: 6"  
CONTRACTOR: P. NITSCHE DRILLING  
DRILLER:  
LOGGED BY: J. DUNN / T. JUST

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
2.0	CLAYEY SILT.	209508	2						
4.0	ORANGE RED SAND PARTLY CEMENTED	509	2						
6.0	MED TO COARSE LOOSE SAND.	510	2						
8.0	MED GR LOOSE YELLOW SAND.	511	2						
10.0	ORANGE CLAYEY SAND.	512	2						
12.0	V. PALE BROWN / WHITE WEATHERED ? GRANITE	513	2						
14.0	V. PALE GREEN WITH WEATHERED ? GRANITE	514	2						
16.0		515	2						
18.0		516	2						
20.0		517	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

222

HOLE No. *Cwm 1b*  
PAGE *1* OF *3*

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	"PURPLE" WEATHERED SCHIST - CLAY	—	209607	2						
		—								
		—								
		—								
24		—	608	2						
		—								
		—								
		—								
26	RED BROWN CLAY - WEATHERED SCHIST	—	609	2						
		—								
		—								
		—								
28		—	610	2						
		—								
		—								
		—								
30		—	611	2						
		—								
		—								
		—								
32	PURPLE CLAY - WEATHERED SCHIST	—	612	2						
		—								
		—								
		—								
34	MINOR QTZ Biotite	—	613	2						
		—								
		—								
		—								
36	ABUNDANT QTZ/Biotite GRANULES	—	614	2						
		—								
		—								
		—								
38		—	615	2						
		—								
		—								
		—								
40	+ WEATHERED GARNET/KISO V ?GNEISS	—	616	2						
		—								
		—								
		—								

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[illegible]



PACMINEX PTY. LTD.—FIELD DRILL LOG

225

HOLE No. CUM 18

PAGE 1 OF 2

PROJECT: CUMMINIS

AREA: E.I. RE PENNINSULA

LOCATION: TRAVERSE 1b

STARTED:

COMPLETED:

DATE STARTED: 22.4.85

COORDINATES: 1700

ELEVATION:

DEPTH: 32m

TYPE OF DRILL: TR3, I.R.

HOLE SIZE: 6"

CONTRACTOR: P. NITSCHE DRILLING

DRILLER:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
2.0	RED SILT & CLAY	209634	2						
4.0	ORANGE / BROWN HEAVY SILT & CLAY	635	2						
6.0	RED	636	2						
	DARK GREEN CLAY								
8.0	WHITE + BROWN CLAY + ROCK FRAGMENTS (? WEATHERED BASALTIC)	637	2						
10.0	WHITISH CLAY (? WEATHERED BEDROCK)	638	2						
12.0	BROWN CLAY ( — — — )	640	2						
14.0	OLIVE GREEN SILT/CLAY + CHIPS OF MICA SCHIST	641	2						
16.0		642	2						
18.0		643	2						
20.0		644	2						

HOLE No. Eum 18  
PAGE 2 OF 2

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	OLIVE GREEN CLAY + SCHIST	---	209645	~						
	FRAGMENTARY									
24	---	---	646	~						
26	DK OLIVE GREEN CLAY + SCHIST FRAGS	---	647	~						
28	---	---	648	~						
30	---	---	649	~						
32	Amphibolitic schist.	---	650	~						
	END 32m.									
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
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PACMINEX PTY. LTD.—FIELD DRILL LOG

227

HOLE No. CUM 19  
PAGE 1 OF 2

PROJECT: CUMMINIS      DATE STARTED: 22-4-85      TYPE OF DRILL: TR3, I.R.  
AREA: E.I. RE PENNINSULA      COORDINATES: 1800      HOLE SIZE: 6"  
LOCATION: TRAVERSE 16      ELEVATION:      CONTRACTOR: P. NITSCHE DRILLING  
STARTED:      DRILLER:      LOGGED BY: J. DUNN / T. JUST.  
COMPLETED:      DEPTH: 30m

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	RED SILT	209651	2						
4.0	PURPLE CLAY + CARBONATE	652	2						
6.0	CARBONATE	653	2						
8.0	CRAM COL CLAY V. WEATHERED BEDROCK	654	2						
10.0		655	2						
12.0		656	2						
14.0		657	2						
16.0	WHITISH HIGHLY MICACEOUS CLAY + OCC QZ CLAST. WEATHERED BEDROCK	658	2						
18.0		659	2						
20.0	ORANGE CLAY	660	2						
	+ QZ MUSC CLASTS								

HOLE No. 19 cum

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PAGE 2 OF 2

[illegible]



# PACMINEX PTY. LTD.—FIELD DRILL LOG

229

HOLE No. UM 20

PAGE 1 OF 3

PROJECT: CUMMINS

DATE STARTED: 22.4.85

TYPE OF DRILL: TR3, I.R.

AREA: EUREPENINSULA

COORDINATES: 2050

HOLE SIZE: 6"

LOCATION: TRAVERSE 19

ELEVATION: 46 m

CONTRACTOR: P. NITSCHE DRILLING

STARTED:

DEPTH: 46 m

DRILLER: J. DUNN / T. JUST

COMPLETED:

LOGGED BY: J. DUNN / T. JUST

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	ORANGE CLAYEY SAND & SILT	209667	2						
4.0		668	2						
6.0	ORANGE CLAYEY SILT	669	2						
8.0	ORANGE / RED SANDY SILT & CLAY. • MINOR CALCAREOUS	670	2						
10.0	PURP. PINK CLAY + WEATHERED B.R.	671	2						
12.0	PINKISH CLAY	672	2						
14.0		673	2						
16.0	WHITISH CLAY + V. FERRUGINOUS ANGULAR CLASTS (WEATHERED B.R.?) + WHITISH F.G. CLASTS ( " " )	674	2						
18.0		675	2						
20.0	FINELY DIVIDED WHITE CLAY + OCC QZ21% CLASTS.	676	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

230

PROJECT:.....

DATE STARTED:.....

TYPE OF DRILL:.....

AREA:.....

COORDINATES:.....

HOLE SIZE:.....

LOCATION:.....

ELEVATION:.....

CONTRACTOR:.....

STARTED:.....

DEPTH:.....

DRILLER:.....

COMPLETED:.....

LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	WHITE CLAY	—	209677	2						
		—								
		—								
		—								
24		—	678	2						
		—								
		—								
		—								
26	WHITE TO RED BROWN CLAY	—	679	2						
		—								
		—								
		—								
28	ORANGE CLAY + ANG. QTZ CLASTS (To 2cm)	—	680	2						
		—								
		—								
		—								
30	WHITE + ORANGE CLAY + ANG. QTZ CLASTS	—	681	2						
		—								
		—								
		—								
32	ORANGE RED CLAY + ANG. QTZ CLASTS	—	682	2						
		—								
		—								
		—								
34		—	683	2						
		—								
		—								
		—								
36		—	684	2						
		—								
		—								
		—								
38		—	685	2						
		—								
		—								
		—								
40		—	686	2						
		—								
		—								
		—								

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[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

232

HOLE No. 21 Cum

PAGE 1 OF 2

PROJECT: CUMMINIS DATE STARTED: 22.4.85 TYPE OF DRILL: TR3, I.R.  
AREA: E.I. RE PENNINSULA COORDINATES: 1950 HOLE SIZE: 6"  
LOCATION: TRAVERSE 19 CONTRACTOR: P. NITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 36 m LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	buff silt	209691	2						
4.0	buff silt + calcareate	692	2						
6.0	buff col. calcareate	693	2						
8.0	buff silt + minor calcareate	694	2						
10.0	red brown v. ferruginous ? ? bedrock.	695	2						
12.0	red brown to cream whistlered B.R.	696	2						
14.0	whitish clay	697	2						
16.0		698	2						
18.0	pale yell. clay + Qtz clasts	699	2						
20.0	orange clay + Qtz clasts to 2m (angular)	700	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

233

PROJECT:..... DATE STARTED: ..... TYPE OF DRILL: .....  
AREA:..... COORDINATES: ..... HOLE SIZE: .....  
LOCATION:..... CONTRACTOR: .....  
STARTED:..... ELEVATION: ..... DRILLER: .....  
COMPLETED:..... DEPTH: ..... LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	CREAMY YELLOW CLAY + ANG. QTZ CLASTS		209701	2						
24			702	2						
26	OLIVE GREEN CLAY + ANG QTZ CLASTS		703	2						
	↳ MICACIOUS CLASTS									
28			704	2						
30			705	2						
32			706	2						
34	B(2) ROCK : BIOTITE SCHIST + ?AMPHIB SCHIST		707	2						
	END 36									
	↓									
	↓									
36			708	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

234 HOLE No. 22 cm  
PAGE 1 OF 4

PROJECT: CUMMINIS DATE STARTED: 23.4.85 TYPE OF DRILL: TR3, I.R.  
AREA: E.I. REPENNINSULA COORDINATES: 1850 HOLE SIZE: 6"  
LOCATION: TRAVERSE 19 CONTRACTOR: P.NITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 64 m LOGGED BY: J.DUNN/T.JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
2.0	YELLISH SILT & CLAY (CALC)	69709	2						
4.0	BUFF YELL CLAY CLAYEN SILT	710	2						
6.0		711	2						
8.0	RED BROWN CLAYEN SILT . MINOR FERRUG- INOUS CLASTS.	712	2						
10.0	RED BROWN CLAY + ANG. FERRUG CLASTS (To 1 cm)	713	2						
12.0		714	2						
14.0	BUFF TO GREY CLAY	715	2						
16.0	BUFF / ORANGE SANDY + ANG FE CLASTS SILT (To 2cm)	716	2						
18.0	BUFF TO WHITISH CLAY + ANG FE CLASTS	718	2						
20.0	MOTTLED GREY OR RED GRITTY CLAY + ANG FE CLASTS	719	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

235

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	ORANGE BROWN CLAY + FE CLASTS		209720	2						
24			721	2						
26	ORANGE BROWN SILT/CLAY		722	2						
	ABUNDANT 2-5mm									
	ANG. FE CLASTS									
28			723	2						
30	PURPLE SILT/CLAY + ABUNDANT ANG. FE +		724	2						
	CLAY QTZ CLASTS (70-100µ)									
32	PURPLE/WHITE SILTY CLAY + ABUNDANT		725	2						
	SLIGHTLY FERRUG. QTZ CLASTS									
34			726	2						
36	PURPLE/GRAY SILT/CLAY + ABUNDANT		727	2						
	ANG. QTZ CLASTS									
38			728	2						
40			729	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....HOLE SIZE:.....

LOCATION:.....COORDINATES:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	PURPLISH GRAY CLAY + ANG QZT FRAGS		209730	2						
44			731	2						
46			732	2						
48	WHITISH CLAY		733	2						
50	WHITISH CLAY		734	2						
52			735	2						
54			736	2						
56	+ FINE ANG QZT + PEPING - MOUS ? FRAGS		738	2						
58	PINK BUFF CLAY + FRIABLE V. PINK GREEN WEATHERED B'ROCK.		739	2						
60	V. PINK GREEN P.G. FRIABLE WEATHERED B'ROCK. (OCC DARKER LAMINATIONS)		740	2						



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CSR/0035

PACMINEX PTY. LTD.—FIELD DRILL LOG

238 HOLE No. 23 Cum  
PAGE 1 OF 2

PROJECT: CUMMINIS DATE STARTED: 23.4.85 TYPE OF DRILL: TR3, I.R.  
AREA: E.I. PENINSULA HOLE SIZE: 6"  
LOCATION: TRAVERSE 19 COORDINATES: ELEVATION: CONTRACTOR: P. NITSCHE DRILLING  
STARTED: DRILLER:  
COMPLETED: DEPTH: 28 m LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	ORANGE SAND	209743	2						
4.0	ORANGE / GREY CLAYEY SAND.	744	2						
6.0	ORANGE / PINK CLAY / SILT.	745	2						
8.0	+ RED BROWN (OCC FERRUGINOUS) SILT / CLAY	746	2						
10.0	F. G. WHITE PARTLY COMBUSTED SAND	747	2						
12.0	PINK GREEN CLAY + QZL GRAINS (WEATHERED BED ROCK)	748	2						
14.0	RED BROWN FERRUG. CLAY + QZL GRAINS. (To 5cm)	749	2						
16.0	WHITE CLAY + ABUNDANT AVG QZL CLASTS (To 2cm)	750	2						
18.0	WHITE SILT / CLAY + ABUNDANT AVG ? QZLITE CLASTS (2cm)	751	2						
20.0	RED / ORANGE CLAY / SILT + ABUNDANT QZL AND FERRUGINOUS ? CLASTS.	752	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

239

PROJECT:.....DATE STARTED:.....TYPE OF DRILL: .....

AREA:.....HOLE SIZE: .....

LOCATION:.....COORDINATES: .....

STARTED:.....ELEVATION:.....DRILLER: .....

COMPLETED:.....DEPTH:.....LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	MINDA RED ORANGE CLAY + ANG FE CLASTS	—	209753	2						
	MOSTLY BUFF CLAY + ABUNDANT QTZ CLASTS	—								
		—								
		—								
24	YELLOWY ORANGE SILT / CLAY + QTZ + ORANGE FE CLASTS.	—	754	2						
		—								
		—								
		—								
26	YELL / ORANGE CLAY + ABUNDANT QTZ + FE CLASTS.	—	755	2						
		—								
		—								
		—								
28	F.G. GRIT / WHITE LAMINATED QTZITE + MINOR ? B.I.F. CHAPS.	~	756	2						
		~								
		~								
		~								

PACMINEX PTY. LTD.-FIELD DRILL LOG

240

HOLE No. Cum 24

PAGE 1 OF 2

PROJECT: CUMMINIS  
AREA: EUREPENINSULA  
LOCATION: TRAVERSE 19  
STARTED:  
COMPLETED:

DATE STARTED: 23-4-85  
COORDINATES: 1650  
ELEVATION:  
DEPTH: 38m

TYPE OF DRILL: TR3, IR  
HOLE SIZE: 6"  
CONTRACTOR: P. NITSCHE DRILLING  
DRILLER:  
LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	GRY SAND.	209757	2						
4.0	GRY / ORANGE SILT / CLAY	758	2						
6.0	RED / ORANGE SILT / CLAY	759	2						
8.0	DK RED BROWN SANDY CLAY	760	2						
10.0		761	2						
12.0	V. PALE GREEN SANDY CLAY	763	2						
14.0	PALE GREEN & DK RED / BROWN CLAY + ABUNDANT AVG. FE. CLASTS.	764	2						
16.0	AVG BUFF CLAY + FE CLASTS (TO 1cm)	765	2						
18.0		766	2						
20.0		767	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....HOLE SIZE:.....

LOCATION:.....COORDINATES:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	LIGHT BROWN CLAY	—	209768	2						
		—								
		—								
		—								
24		—	769	2						
		—								
		—								
		—								
26	ORANGE CLAY + ANG QZ2 (CLASTS)	—	770	2						
		—								
		—								
		—								
28		—	771	2						
		—								
		—								
		—								
30	LIGHT GREEN / ORANGE CLAY	—	772	2						
		—								
		—								
		—								
32	ORANGE / L. GREEN CLAY	—	773	2						
		—								
		—								
		—								
34	ORANGE / L. GREEN CLAY	—	774	2						
		—								
		—								
		—								
36	ORANGE / GREEN CLAY + ABUNDANT WEATHERED ROCK CLASTS	—	775	2						
		—								
		—								
		—								
38	CLAY + F.G. AMPHIBOLITIC SCHIST CLASTS	~	776	2						
		~								
		~								
		~								
	END 38.0 m	~								

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 25

242

PAGE 1 OF 2

PROJECT: CUMMINS  
AREA: EUREPENINSULA  
LOCATION: TRAVERSE 19  
STARTED:  
COMPLETED:

DATE STARTED: 21.4.85  
COORDINATES: 150  
ELEVATION:  
DEPTH: 36m

TYPE OF DRILL: TR3, IR  
HOLE SIZE: 6"  
CONTRACTOR: P.NITSCHE DRILLING  
DRILLER:  
LOGGED BY: J.DUNN/T.JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	GRAY SAND	209777	2						
4.0	DK RED BROWN SILT / CLAY	778	2						
6.0		779	2						
8.0	RED / BROWN CLAY + ABUNDANT ROUNDISH FEE CLASTS	780	2						
10.0	PURPLE / WHITE MOTTLED CLAY	781	2						
12.0	PURPLE CLAY + ORANGE FEE CLASTS + WHITE	782	2						
14.0		783	2						
16.0	PALE GREEN CLAY	784	2						
18.0		785	2						
20.0		787	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. Core 25  
PAGE 2 OF 2

PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... HOLE SIZE:.....  
LOCATION:..... COORDINATES:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	YELLOWISH CLAY + ABUNDANT ANG	—	209788	2						
	WEATHERED ROCK FRAGS	—								
		—								
		—								
24		—	789	2						
		—								
		—								
		—								
26	BUFF CLAY AMPHIBOLITE FRAGS	—	790	2						
	COMMON	—								
		—								
		—								
28		—	791	2						
		—								
		—								
		—								
30		—	792	2						
		—								
		—								
		—								
32	OLIVE GREEN CLAY + AMPHIB	—	793	2						
	CHIPS	—								
		—								
		—								
34		—	794	2						
		—								
		—								
		—								
36	MED GR. SCHISTOSE AMPHIB.	~	795	2						
		~								
		~								
		~								
	END 36m	~								
		~								
		~								
		~								
		~								
		~								
		~								
		~								

PACMINEX PTY. LTD.—FIELD DRILL LOG

244

HOLE No. CUM 26

PAGE 1 OF 2

PROJECT: CUMMINS

DATE STARTED: 23.4.85

TYPE OF DRILL: TR3, I.R.

AREA: E.I.R. PENINSULA

COORDINATES: 1450

HOLE SIZE: 6"

LOCATION: TRAVERSE 19

CONTRACTOR: P. MITSCHE DRILLING

STARTED:

ELEVATION:

DRILLER:

COMPLETED:

DEPTH: 34 m

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	GREY SAND.	209996	2						
4.0	ORANGE SANDY CLAY.	797	2						
6.0	ORANGE CLAY & SAND	798	2						
8.0	ORANGE / PINK CLAY + ABUNDANT ANG. TO SUB. RND. DK. BRN. FE CLASTS	799	2						
10.0	PINKISH V. PALK GREEN CLAY + ABUNDANT V. WEATHERED ROCK FRAGS (F.G. V. PALK GREEN)	800	2						
12.0		801	2						
14.0		802	2						
16.0	DK GRAY CLAY + QUARTZ CLASTS	803	2						
18.0	L. BROWN CLAY + ABUNDANT FERRUG. CLASTS, + ? B.F. + QUARTZ.	804	2						
20.0	LIGHT BROWN CLAY + ABUNDANT HARD DK BROWN ANGULAR FE CLASTS	805	2						



PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	L Brown CLAY+V.DK.FE CLASTS + QTZITE	— —	209806	2						
	CLASTS	— —								
		— —								
		— —								
		— —								
24		— —	807	2						
		— —								
		— —								
		— —								
		— —								
26		— —	808	2						
		— —								
		— —								
		— —								
		— —								
28		— —	809	2						
		— —								
		— —								
		— —								
		— —								
30		— —	810	2						
		— —								
		— —								
		— —								
		— —								
32		— —	811	2						
		— —								
		— —								
		— —								
		— —								
34	CHIPS OF QTZ & FE CLASTS	— —	812	2						
	THE LATTER BOTH V. DK. V.F. GRAINED	— —								
	(CONCAVE FRACTURE) & F. GRAINED PERLITE	— —								
	? QTZITE. END 34m	— —								
		— —								

PACMINEX PTY. LTD.—FIELD DRILL LOG

246

HOLE No. Cum 27

PAGE 1 OF 3

PROJECT: CUMMINIS  
AREA: E. REPENNINSULA  
LOCATION: TRAVERSE 19  
STARTED:  
COMPLETED:

DATE STARTED: 23-6-85  
COORDINATES: 1350  
ELEVATION:  
DEPTH: 4.5 m

TYPE OF DRILL: TR3, I.R.  
HOLE SIZE: 6"  
CONTRACTOR: P. NITSCHE DRILLING  
DRILLER:  
LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	GREY SAND	20984	2						
4.0	ORANGE CLAYEY SAND	815	2						
6.0		816	2						
8.0	RED/ORANGE CLAY + ABUNDANT ANG TO SUB RND FE CLASTS (to 1 cm)	817	2						
10.0	RED/GREY CLAY + FE GRANULES	818	2						
12.0	RED/GREEN CLAY	819	2						
14.0	LOC. QZITE CLAST	820	2						
16.0	GREEN CLAY (WEATHERED ROCK)	821	2						
18.0		822	2						
20.0		823	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

247

HOLE No. Evu 27  
PAGE 2 OF 3

PROJECT:..... DATE STARTED: ..... TYPE OF DRILL: .....  
AREA:..... COORDINATES: ..... HOLE SIZE: .....  
LOCATION:..... CONTRACTOR: .....  
STARTED:..... ELEVATION: ..... DRILLER: .....  
COMPLETED:..... DEPTH: ..... LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	CLAY + BRIGHT GREEN V. WEATHERING	—	209824	2						
	Rock	—								
		—								
		—								
24	L. BR. CLAY + ———	—	825	2						
	+000 QZ CLASTS	—								
		—								
		—								
26		—	826	2						
		—								
		—								
		—								
28		—	827	2						
		—								
		—								
		—								
30		—	828	2						
		—								
		—								
		—								
32		—	829	2						
		—								
		—								
		—								
34		—	830	2						
		—								
		—								
		—								
36		—	831	2						
		—								
		—								
		—								
38		—	832	2						
		—								
		—								
		—								
40		—	833	2						
		—								
		—								
		—								

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[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

249

PROJECT: CUMMINIS      DATE STARTED: 26.4.85      TYPE OF DRILL: TR3, I.R.  
AREA: E.I. REPENNINSULA      COORDINATES: 1750      HOLE SIZE: 6"  
LOCATION: TRAVERSE 21      ELEVATION:      CONTRACTOR: P. NITSCHE DRILLING  
STARTED:      DEPTH: 41 m      DRILLER:      LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	RED CLAY - minor concretions	209837	2						
4.0	RED ORANGE SILT / CLAY + minor concretions	838	2						
6.0	R / ORANGE CLAY + whitish siliceous	840	2						
8.0	SILICEOUS + ferruginous	841	2						
10.0	M TOVC POORLY SORTED QTZ SAND	842	2						
12.0	V. PALE GREEN / GREY CLAY + ANG QTZ GRAVELS	843	2						
	V. WEATHERED B' ROCK ? X-MINOR TEXTURE VISIBLE								
14.0		844	2						
16.0		845	2						
18.0		846	2						
20.0		847	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

250

HOLE No. Cum 28  
PAGE 2 OF 3

PROJECT: DATE STARTED: TYPE OF DRILL: AREA: COORDINATES: HOLE SIZE: LOCATION: CONTRACTOR: STARTED: ELEVATION: DRILLER: COMPLETED: DEPTH: LOGGED BY:

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
	V. PALE GREEN CLAY + OCC QTZ CLASTS (TO 2cm)									
22	V. WEATHERED BLOCK (SCHISTOSE TEXTURE)		209828	2						
24			849	2						
26	QTZ CLAST common		850	2						
28			851	2						
30	PALE GREEN BUFF CLAY + OCC ANG QTZ CLAST (BLOCK TEXTURE)		852	2						
32			853	2						
34			854	2						
36	BUFF. CLAY + ANG QTZ CLAST (TO 1cm)		855	2						
38			856	2						
40			957	2						

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CSR/0035

PACMINEX PTY. LTD.—FIELD DRILL LOG

252

HOLE No. 29

PAGE 1 OF 2

PROJECT: CUMMINS

AREA: E. I. PENINSULA

LOCATION: TRAVERSE 21

STARTED:

COMPLETED:

DATE STARTED: 25. 4. 85

COORDINATES: 1650

ELEVATION:

DEPTH: 30 m

TYPE OF DRILL: TR3, I.R.

HOLE SIZE: 6"

CONTRACTOR: P. NITSCHE DRILLING

DRILLER:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	RED SILT/CLAY	209860	2						
4.0	RED FE RICH PARTLY cemented SILT MINOR CALCITE.	861	2						
6.0	MINOR SILICATE WHITE POORLY SORTED F TO V.C. SAND	862	2						
8.0	Pale GREEN POORLY SORTED F TO V.C. SAND	863	2						
10.0	GRN-GREEN CLAY ? WEATHERED B' ROCK (OCC QTZ CLASTS) (SCHISTOSE TEXTURE VS?)	864	2						
12.0	ARG	865	2						
14.0	KLAY CLAY. OCC QTZ CLASTS (SCHISTOSE TEXTURE VS?)	866	2						
16.0	GREEN CLAY	867	2						
18.0		868	2						
20.0	BROWN CLAY.	869	2						



PACMINEX PTY. LTD.—FIELD DRILL LOG

253

HOLE No. 29 CUM

PAGE 2 OF 2

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	OLIVE GREEN CLAY	—	209870	2						
		—								
		—								
		—								
		—								
24		—	871	2						
		—								
		—								
		—								
		—								
26		—	872	2						
		—								
		—								
		—								
		—								
28	ORANGE Brown GREEN CLAY + OCE. PK. CLASTS	—	873	2						
		—								
		—								
		—								
		—								
30		—	874	2						
		—								
		—								
		—								
		—								
	QTZ + AMPHIB SCHIST CLASTS END 30m	—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
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# PACMINEX PTY. LTD.—FIELD DRILL LOG

254

HOLE No. Cum 30

PAGE 1 OF 3

PROJECT: CUMMINS

DATE STARTED: 24.4.85

TYPE OF DRILL: TR3, I.R.

AREA: E.I. PENINSULA

COORDINATES: 1550

HOLE SIZE: 6"

LOCATION: TRAVERSE 21

ELEVATION:

CONTRACTOR: P. NITSCHE DRILLING

STARTED:

DEPTH: 41 m

DRILLER:

COMPLETED:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	CREAM COL. CALC SILT & CLAY	209875	2						
4.0	MINDA CALCAREOUS SILT & CLAY	876	2						
6.0	FERRUG. CLAYS. + WHITE CLAY (WEATHERED ROCK?)	877	2						
8.0	WHITE / V. PALE GRAY CLAY + WEATHERED (CLAY?) LAMINATED ROCK CLASTS (LUMPS)	878	2						
10.0	WHITISH CLAY, V. WEATHERED (CLAY?) LAMINATED ROCK CLASTS + FERRUGINOUS (ORANGE RED) ANOMAL CLASTS.	879	2						
12.0		880	2						
14.0		881	2						
16.0	ORANGE BROWN CLAY + ABUNDANT ANG FR CLASTS (TO 15cm)	882	2						
18.0		884	2						
20.0		885	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

CONTRACTOR: .....

STARTED:.....

ELEVATION:.....

DRILLER: .....

COMPLETED:.....

DEPTH: .....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	BROWN / ORANGE CLAY + ABUNDANT		269886	2						
	(to 1/2 cm) FINE ANG CLASTS.									
24			887	2						
26			888	2						
28	BROWN CLAY + ABUNDANT ANG		889	2						
	(F + QZ CLASTS (to 2cm)									
30			890	2						
32	BROWN CLAY. ABUNDANT FE		891	2						
	+ MINOR QZ CLASTS									
34			892	2						
36			893	2						
38	WHITE / RED CLAY ABUNDANT ANG		894	2						
	F + FRAGS (to 1cm)									
40	GREENISH WEATHERED (CLAYEY) ROCK.		895	2						
	(MINOR F + FRAGS)									

256 HOLE No. Cum 30  
PAGE 3 OF 3

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

257

HOLE No. CUM31

PAGE 1 OF 4

PROJECT: CUMMINS

DATE STARTED: 24.4.85

TYPE OF DRILL: TR3, I.R.

AREA: E.I. PENINSULA

COORDINATES: 1450

HOLE SIZE: 6"

LOCATION: TRAVERSE 21

ELEVATION:

CONTRACTOR: P. NITSCHE DRILLING

STARTED:

DEPTH: 6.8m

DRILLER:

COMPLETED:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	CR. GRAY TO L. BROWN SILT / CLAY	209897	2						
4.0		898	2						
6.0	WHITE / PURPLE CLAY + FE CLASTS + WEATHERED ? B' ROCK	899	2						
8.0		900	2						
10.0	PURPLE / WHITE CLAY + ABUNDANT ANG. PURPLE FE CLASTS	901	2						
12.0		902	2						
14.0	WHITE CLAY (WEATHERED ROCK - TEXTURE VIS) + ABUNDANT FE CLASTS (ANG) (to 2cm)	903	2						
16.0	RED BROWN CLAY + FE CLASTS (to 5cm)	904	2						
18.0		905	2						
20.0	MOTTLED BROWN / WHITE WEATHERED (CLAY?) ROCK + FE CLASTS + QZ CLASTS	906	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION: .....

CDNTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	White Brown Purple clayey weathered B' Rock		209907	2						
24			908	2						
26			909	2						
28	OLIVE GREEN CLAY + QTZ CLASTS (some ferruginous)		910	2						
30	OLIVE GREEN CLAY . MINOR FE CLASTS		911	2						
32			912	2						
34	Brown CLAY . OCC. FE CLASTS OCC. QTZ		913	2						
36			914	2						
38			915	2						
40	RED / Brown CLAY WEATHERED ? Amorph		916	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

259

HOLE No. Cum 31  
PAGE 3 OF 4

PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... HOLE SIZE:.....  
LOCATION:..... COORDINATES:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	Brown + OLIVE GREEN CLAY	—	209917	2						
	V. LITTLE MATERIAL	—								
	LOT OF H <sub>2</sub> O	—								
		—								
44		—	918	2						
		—								
		—								
		—								
46		—	919	2						
		—								
		—								
		—								
48		—	921	2						
		—								
		—								
		—								
50		—	922	2						
		—								
		—								
		—								
52		—	923	2						
		—								
		—								
		—								
54		—	924	2						
		—								
		—								
		—								
56		—	925	2						
		—								
		—								
		—								
58		—	926	2						
		—								
		—								
		—								
60	GRAY CLAY + FEW CLASTS OF	—	927	2						
	MODULAR P.G. : CAVITY	—								
	FILL MATERIAL. SAMPLE KEPT IN	—								
	PLASTIC BAG.	—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

260

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION: .....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED: .....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
62	GREY CLAY	—	209929	2						
		—								
		—								
		—								
		—								
64	— — —	—	929	2						
		—								
		—								
		—								
		—								
66	— — —	—	930	2						
		—								
		—								
		—								
		—								
68	HARD DRILLING.	~	931	2						
	SLIGHTLY WEATHERED ?? AMPHIB +	~								
	FWK (1-2mm)	~								
	CLASTS OF V.F. GRAIN. BUFF COL. ??	~								
		~								
	END AT 68m.									



PACMINEX PTY. LTD.—FIELD DRILL LOG

261

HOLE No. CUM 32  
PAGE 1 OF 1

PROJECT: CUMMINIS      DATE STARTED: 25.4.85      TYPE OF DRILL: TR3, I.R.  
AREA: E.I. RE PENNINSULA      2850      HOLE SIZE: 6"  
LOCATION: TRAVERSE 22      COORDINATES:      CONTRACTOR: P. NITSCHE DRILLING  
STARTED:      ELEVATION:      DRILLER:      LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Co	Pb	Zn	NI	Mn
2.0	Calcrete + silt	1 1 1	209932	2						
		1 1 1								
		1 1								
		1 1								
		1 1								
4.0	Red / brown ? weathered B' rock clay	1 1 1	933	2						
		1 1 1								
		1 1 1								
		1 1 1								
		1 1 1								
6.0	Qtz Green / brown mica schist	1 1 1	934	2						
		1 1 1								
		1 1 1								
		1 1 1								
		1 1 1								
8.0		1 1 1	935	2						
		1 1 1								
		1 1 1								
		1 1 1								
		1 1 1								
10.0	Qtz, mica schist / green	1 1 1	936	2						
		1 1 1								
		1 1 1								
		1 1 1								
		1 1 1								
12.0		1 1 1	937	2						
		1 1 1								
		1 1 1								
		1 1 1								
		1 1 1								
14.0		1 1 1	938	2						
		1 1 1								
		1 1 1								
		1 1 1								
		1 1 1								
16.0	Qtz mica schist	1 1 1	939	1						
	Red 15m	1 1 1								
		1 1 1								
		1 1 1								
		1 1 1								

HOLE No. Cum 33

262

PAGE 1 OF 1

PROJECT: CUMMINS

DATE STARTED: 25.4.85

TYPE OF DRILL: TR3, IR

AREA: EUREPENINSULA

2750

HOLE SIZE: ..... 6" .....

LOCATION: TRAVERSE 22

COORDINATES:

CONTRACTOR: P. MITSCHE DRILLING

STARTED:.....

ELEVATION:.....

**DRILLER:** .....

**COMPLETED: .....**

DEPTH: ..... 5 m .....

LOGGED BY: J. DUNN/T. JUST.

[illegible]

HOLE No. Cum 34

263

PAGE ( OF )

DATE STARTED: ..... 25.4.85 .....

TYPE OF DRILL: TR3, IR

2950

HOLE SIZE: .....6".....

COORDINATES:

CONTRACTOR: P. NITSCHE DRILLING

**STARTED:**.....

ELEVATION:.....

**DRILLER:** .....

**COMPLETED:** .....

DEPTH: ..... 3 m

LOGGED BY: J. DUNN/T. JUST

[illegible]

# PACMINEX PTY. LTD.—FIELD DRILL LOG

264

HOLE No. Cum 35

PAGE 1 OF 1

PROJECT: CUMMINIS

DATE STARTED: 25.4.85

TYPE OF DRILL: TR3 J.R.

AREA: E.I. RE PENNINSULA

COORDINATES: 3050

HOLE SIZE: 6"

LOCATION: TRAVERSE 22

CONTRACTOR: P. NITSCHE DRILLING

DRILLER: J. DUNN / T. JUST.

STARTED:

ELEVATION:

LOGGED BY: J. DUNN / T. JUST.

COMPLETED:

DEPTH: 20 m

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
2.0	Pale Brown SILT / CLAY minor CALCARE	209947	2						
4.0	Pale Green / Red Brown CLAY	948	2						
6.0	DR. RED / BROWN CLAY	949	2						
8.0	ORANGE / Brown CLAY + minor Qtz & Fk CLASTS (ORANGE) (To 1 cm)	950	2						
10.0		951	2						
12.0		952	2						
14.0		953	2						
16.0	Red Brown CLAY	954	2						
	WEATHERED ? AMPHIBOLITE								
18.0		955	2						
20.0	AMPHIBOLITE SCHIST CLIPS	956	2						

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PAGE 1 OF 1

TYPE OF DRILL: TR3, IR

HOLE SIZE: .....6".....

CONTRACTOR: P. NITSCHE DRILLING

**DRILLER:** .....

LOGGED BY: ..... J. DUNN / T. JUST .....

[illegible]

## PACMINEX PTY. LTD.—FIELD DRILL LOG

266

HOLE No. CUM 37

PAGE 1 OF 2

PROJECT: CUMMINS

DATE STARTED: 28.4.85

TYPE OF DRILL: TR3, I.R.

AREA: EUREPENINSULA

COORDINATES: 1700

HOLE SIZE: 6"

LOCATION: TRAVERSE 13

ELEVATION:

CONTRACTOR: P. NITSCHE DRILLING

STARTED:

DEPTH: 22m

DRILLER:

COMPLETED:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Co	Pb	Zn	Ni	Mn
2.0	CONCRETE		209964	2						
4.0	WHITISH CLAY + ORANGE CLAY WITH QTZ CLASTS	----	965	2						
		----								
		----								
		----								
		----								
6.0	ORANGE CLAY. ABUNDANT ANG QTZ CLASTS (2-3cm)	----	966	2						
		----								
		----								
		----								
		----								
8.0	ORANGE CLAY. ABUNDANT QTZ CLASTS (7-5mm)	----	967	2						
		----								
		----								
		----								
		----								
10.0	ORANGE CLAY + QTZ & FR. CLASTS (10-5mm)	----	968	2						
		----								
		----								
		----								
		----								
12.0	HARD DRILLING COARSE ANGULAR ? GRANITIC FRAGMENTS ? PEGMATITE ?	* x * x * x * x * x	969	2						
14.0	BROWN CLAY (WEATHERED ? AMPHIB)	----	970	2						
		----								
		----								
		----								
		----								
16.0	GREEN / BROWN CLAY (? WEATHERED AMPHIB)	----	971	2						
		----								
		----								
		----								
		----								
18.0	PALER GREEN / GREEN CLAY	----	972	2						
		----								
		----								
		----								
		----								
20.0	V. COARSE QTZ, FELDSPAR, POK ? PEGMATITE	x x x x x x x x x x	973	2						

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[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

268

HOLE No. CUM 38  
PAGE 1 OF 2

PROJECT: CUMMINIS DATE STARTED: 25.4.85 TYPE OF DRILL: TR3, I.R.  
AREA: E.I.R. PENINSULA COORDINATES: 1600 HOLE SIZE: 6"  
LOCATION: TRAVERSE 13 STARTED: ELEVATION: CONTRACTOR: P.NITSCHE DRILLING  
COMPLETED: DEPTH: 32m DRILLER: LOGGED BY: J.DUNN/T.JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	SILT + QTZ pebbles	209975	2						
4.0	CLAY + QTZ CLASTS	976	2						
6.0	RED / OR / WH WEATHERED CLASTIC ROCK + OCC ANG QTZ CLASTS	977	2						
8.0	PURPLE + V. PALE GREEN MICACEOUS CLAY WEATHERED ? SANDST	978	2						
10.0	WHITISH CLAY + OCC QTZ CLASTS	979	2						
12.0		980	2						
14.0	BROWN CLAY QTZ + ? AMPHIB CLASTS	981	2						
16.0	BUFF CLAY OCC QTZ CLASTS	982	2						
18.0	BUFF / PALE GREEN MICACEOUS CLAY OCC. QTZ CLASTS	983	2						
20.0	PALE GREEN / WHITE MICACEOUS CLAY	984	2						



PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. 38 Cum  
PAGE 2 OF 2

PROJECT:..... DATE STARTED: 25.4.85..... TYPE OF DRILL: .....  
AREA:..... COORDINATES: 1600..... HOLE SIZE: .....  
LOCATION:..... CONTRACTOR: .....  
STARTED:..... ELEVATION:..... DRILLER: .....  
COMPLETED:..... DEPTH: ..... LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	Pale Green / Buff Clay + Occ Qtz	---	209986	2						
	CLAY?	---								
	? WEATHERED AMPHIB?	---								
		---								
24		---	987	2						
		---								
		---								
		---								
26		---	989	2						
		---								
		---								
		---								
28		---	989	2						
		---								
		---								
		---								
30	ARGILL CLAY	---	990	2						
		---								
		---								
		---								
32	FRESH CLAY.	~~~	991	2						
	MICA SCHIST + AMPHIB SCHIST	~~~								
	CHIPS	~~~								
	END 32	~~~								

PACMINEX PTY. LTD.—FIELD DRILL LOG

270

HOLE No. Cum 39  
PAGE 1 OF 2

PROJECT: CUMMINIS DATE STARTED: 25.4.85 TYPE OF DRILL: TR3, I.R.  
AREA: E.I. RE PENNINSULA COORDINATES: 1500 HOLE SIZE: 6"  
LOCATION: TRAVERSE 13 CONTRACTOR: P. NITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 29m LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	CACRETE + RED CLAY	209992	2						
4.0	RED CLAY	993	2						
6.0	WHITISH / BROWN CLAY	994	2						
8.0	CRAM CLAY (WEATHERED BLACK) + OCC. QSZ + RARE FE CLASTS	995	2						
10.0	CRAM / BUFF CLAY	996	2						
12.0		997	2						
14.0	BUFF GREEN BROWN CLAY	998	2						
16.0		999	2						
18.0	CRAM / BUFF CLAY	210000	2						
20.0	BUFF CLAY	001	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... COORDINATES:..... HOLE SIZE:.....  
LOCATION:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	buff CLAY + OCC QTZ CLAST	— —	210002	2						
	+ RARE FR — — —	— —								
		— —								
		— —								
		— —								
24		— —	003	2						
		— —								
		— —								
		— —								
		— —								
26	CREAM CLAY + OCC. QTZ CLAST	— —	004	2						
		— —								
		— —								
		— —								
		— —								
28		— —	005	2						
		— —								
		— —								
		— —								
		— —								
29	OLIVE GREEN CLAY + AMPHIBOLITIC	— —	006	1						
	SCHIST.	— —								
		— —								
	END 29 ~	— —								
		— —								

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PAGE 1 OF 1

TYPE OF DRILL: TR3, IR

HOLE SIZE: .....6".....

CONTRACTOR: P. MITSCHE DRILLING

**DRILLER:** .....

LOGGED BY: J. DUNN/T. JUST.

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 40

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PAGE 1 OF 2

PROJECT: CUMMINIS DATE STARTED: 25.4.85  
AREA: E.I. RE PENNINSULA COORDINATES: 1900  
LOCATION: TRAVERSE 13  
STARTED: ELEVATION:  
COMPLETED: DEPTH: 26 m

TYPE OF DRILL: TR3, I.R.  
HOLE SIZE: 6"  
CONTRACTOR: P. MITCHELL DRILLING  
DRILLER:  
LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	CHALKY RED SILT / CLAY	210011	2						
4.0	PINKISH CLAY (cemented)	012	2						
6.0	V. QZ RICH SAMPLE	013	2						
	? ANGULAR GRAVEL ? REGIONAL								
8.0	? — — — ?	015	2						
10.0	GREEN BROWN CLAY + QZ CLASTS (W/CAVITATED B' ROCK)	016	2						
12.0	BROWN GREEN CLAY + QZ + FR CLASTS	018	2						
14.0	PURPLE / GRAY CLAY + ? MICACEOUS SCHIST FRAGS, QZ + FR CLASTS.	019	2						
16.0	GREEN / GRAY CLAY + QZ CLASTS	020	2						
18.0	DK GRAY GREEN CLAY + QZ CLASTS	021	2						
20.0	DK GRAY CLAY + ABUNDANT DK GRAY SCHISTOSE ROCK FRAGS.								

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PAGE 2 OF 2

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. CUM 42  
PAGE 1 OF 3

PROJECT: CUMMINS  
AREA: EUREPENNINSULA  
LOCATION: TRAVERSE 4  
STARTED:  
COMPLETED:  
DATE STARTED: 26.4.85  
COORDINATES: 1730  
ELEVATION:  
DEPTH: 53m

275  
TYPE OF DRILL: TR3, IR  
HOLE SIZE: 6"  
CONTRACTOR: PMITSCHE DRILLING  
DRILLER:  
LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	Rd SILT / CLAY	210025	2						
4.0	ORANGE SILT / CLAY	026	2						
6.0	F.G. WHITE SAND / SST. +ORANGE	027	2						
8.0		028	2						
10.0	WHITISH, BFR OCC V. FERRUG. SILT / CLAY	029	2						
12.0	FERRUGINE	030	2						
14.0	RED BROWN CLAY	031	2						
16.0	ORANGE FE CLAY GREENISH GREEN CLAY PALE YELLOW CLAY (WEATHERED B'rock)	032	2						
18.0	PALE YELLOW CLAY	033	2						
20.0		034	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	Pale yellow clay		210035							
24	DK OLIVE GREEN CLAY . minor QZ (frag)		210036							
	WEATHERED into									
26			037							
28			038							
30			039							
32			040							
34			041							
36			043							
38			044							
40			045							



PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. *CJM 42*  
PAGE 3 OF 3

PROJECT:.....

DATE STARTED:.....

TYPE OF DRILL:.....

AREA:.....

COORDINATES:.....

HOLE SIZE:.....

LOCATION:.....

ELEVATION:.....

CONTRACTOR:.....

STARTED:.....

DEPTH:.....

DRILLER:.....

COMPLETED:.....

LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	GREEN CLAY	—	210046	2						
	+ QZ, FLD, ? GARNET, Biotite	—								
	GNEISS	—								
		—								
44		—	047	2						
		—								
		—								
		—								
46	GREY GREEN CLAY + GNEISS FRAGS	—	048	2						
	+	—								
		—								
		—								
48		—	049	2						
		—								
		—								
		—								
50		—	050	2						
		—								
		—								
		—								
52		—	051	2						
		—								
		—								
		—								
54	QZ FLD Biotite ? GARNET GNEISS	—	052	1						
	END 53m	—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. Cum 43  
PAGE 1 OF 3

PROJECT: CUMMINS DATE STARTED: 26.4.85 TYPE OF DRILL: TR3, I.R.  
AREA: EYRE PENINSULA COORDINATES: 1830 HOLE SIZE: 6"  
LOCATION: TRAVERSE 4 CONTRACTOR: P. MITCHELL DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 45 m LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	RED / ORANGE WEAKLY CEMENTED SAND & SILT	209480	2						
4.0		481	2						
6.0	ORANGE TO WHITE WELL SORTED F.G. SAND.	482	2						
8.0	FINE WELL SORTED WHITE F.G. SAND LOOSE (WITH MINOR CEMENTED AREAS)	483	2						
10.0	F.G. ORANGE FERRIC (Fe) SAND MOTTLED CLAYEY COARSE BOUNDED SAND.	484	2						
12.0	ORANGE / BROWN FERRIC CLAYEY SAND + FERRIC (Fe) CLASTS (to 2cm)	485	2						
14.0	WHITE CLAY ? WEATHERED GRANITE ?	486	2						
16.0		487	2						
18.0		488	2						
20.0	YELLOW CLAY ? WEATHERED GRANITE	490	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED:.....

TYPE OF DRILL:.....

AREA:.....

COORDINATES:.....

HOLE SIZE:.....

LOCATION:.....

ELEVATION:.....

CONTRACTOR:.....

STARTED:.....

DEPTH:.....

DRILLER:.....

COMPLETED:.....

LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	YELLOW CLAY + FINE QZ CLASTS	—	2094011	2						
	WEATHERED ? SCHIST	—								
		—								
		—								
24		—	492	2						
		—								
		—								
		—								
26		—	493	2						
		—								
		—								
		—								
28	+ DK GREEN WEATHERED SCHIST	—	494	2						
		—								
		—								
		—								
30		—	495	2						
		—								
		—								
		—								
32	DK GREEN WEATHERED QZ BOTVA SCHIST	—	496	2						
		—								
		—								
		—								
34		—	497	2						
		—								
		—								
		—								
36	DK. GREEN CLAY + WEATHERED SCHIST	—	210053	2						
	FRAGS	—								
		—								
		—								
38		—	054	2						
		—								
		—								
		—								
		—	055	2						
		—								
		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....HOLE SIZE:.....

LOCATION:.....COORDINATES:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS						
42	WEATHERED GNEISS	— —	210056	2							
		— —									
		— —									
		— —									
		— —									
44	QTZ BIOTITE ? FELD ? GARNET GNEISS	— —	057	2							
		— —									
		— —									
		— —									
		— —									
45	END 45	— —	058	1							
				</							

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. CUM 44

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PAGE 1 OF 3

PROJECT: CUMMINIS

DATE STARTED: 2.6.48

TYPE OF DRILL: TR3, IR

AREA: EYRE PENINSULA

COORDINATES: 1930

HOLE SIZE: 6"

LOCATION: TRAVERSE 4

COORDINATES: REPEAT OF cum 9

CONTRACTOR: PAITSCHE DRILLING

STARTED:

ELEVATION:

DRILLER:

COMPLETED:

DEPTH: 53m

LOGGED BY: J. DUNN / T. JUST

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	SILT / SAND.		2						
		209498							
			2						
		499							
4.0	NOTED SANDY SILT, WEAKLY CEMENTED		2						
			2						
		500							
6.0	WEAKLY CEMENTED YELLOW SANDY SILT.		2						
			2						
		501							
8.0	V.F. WHITE WELL SORTED LOOSE SAND.		2						
			2						
		502							
10.0	ORANGE / BROWN SANDY CLAY		2						
			2						
		503							
12.0	— + WHITISH SAND.		2						
			2						
		504							
14.0	OFF WHITE CLAY (WEATHERED BASALT)		2						
			2						
		505							
16.0			2						
			2						
		506							
18.0	OLIVE GREEN CLAY (WEATHERED BASALT)		2						
			2						
		507							
20.0	— — — — — QZ, FELDSPAR, BIOTITE SCHIST		2						
			2						
		508							

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... COORDINATES:..... HOLE SIZE:.....  
LOCATION:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	DK OLIVE GREEN CLAY V.M. ACCENT		210059	2						
24			060	2						
26			061	2						
28			062	2						
30			064	2						
32	URBLE CLAY + QTZ FELD CLASTS + BI. FLAKES		065	2						
34	GREEN CLAY + QTZ FELD CLASTS + BIOTITE FLAKES (5mm)		066	2						
36	V. DK. GREEN CLAY QTZ FELD, BI. GN GNEISS CLASTS		067	2						
38			068	2						
40			069	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED:.....

TYPE OF DRILL:.....

AREA:.....

COORDINATES:.....

HOLE SIZE:.....

LOCATION:.....

ELEVATION:.....

CONTRACTOR:.....

STARTED:.....

DEPTH:.....

DRILLER:.....

COMPLETED:.....

LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	DK GRN (PURPLE CLAY + UNBATHED		210070	2						
	GNSS									
44			071	2						
46			072	2						
48	GRN GREEN CLAY + QZL + FLD		073	2						
	CLASTS									
50			074	2						
52			075	2						
	QZL FLD B1 GW GNSS		076	1						
	END 53m									

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. 45 Cvm  
PAGE 1 OF 4

PROJECT: CUMMINIS      DATE STARTED: 26.4.85      TYPE OF DRILL: TR3, I.R.  
AREA: E.I.R. PENINSULA      COORDINATES: 2130      HOLE SIZE: 6"  
LOCATION: TRAVERSE 4      ELEVATION:      CONTRACTOR: P. MITCHELL DRILLING  
STARTED:      DRILLER:      LOGGED BY: J. DUNN / T. JUST.  
COMPLETED:      DEPTH: 71m

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	MOTTLED CLAY	209519	2						
4.0	MOTTLED (CEMENTED) SILT.	520	2						
6.0	WHITISH WEATHERED SCHIST	521	2						
8.0	PINK / GRGY / YELLOW WEATHERED SCHIST	522	2						
10.0	BUFF WEATHERED SCHIST	523	2						
12.0	WEATHERED QTZ FELD BIOTITE SCHIST	524	2						
14.0	V. PALE GREEN / BUFF CLAY WEATHERED B'ROCK	210077	2						
16.0		078	2						
18.0		079	2						
20.0		080	2						



PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED:.....

TYPE OF DRILL:.....

AREA:.....

COORDINATES:.....

HOLE SIZE:.....

LOCATION:.....

ELEVATION:.....

CONTRACTOR:.....

STARTED:.....

DEPTH:.....

DRILLER:.....

COMPLETED:.....

LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	V. PALE GREEN CLAY	—	210081	2						
	WEATHERED BLOCK	—								
		—								
		—								
24		—	082	2						
		—								
		—								
		—								
26		—	084	2						
		—								
		—								
		—								
28		—	085	2						
		—								
		—								
		—								
30	BUFF / V. PALE GREEN CLAY	—	086	2						
	(WEATHERED BLOCK)	—								
		—								
		—								
32		—	087	2						
		—								
		—								
		—								
34		—	088	2						
		—								
		—								
		—								
36		—	089	2						
		—								
		—								
		—								
38		—	091	2						
		—								
		—								
		—								
40	GRAY CLAY	—	092	2						
		—								
		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... HOLE SIZE:.....  
LOCATION:..... COORDINATES:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
62	GREY CLAY +		210092	2						
	SCHISTOSE GREEN									
	ROCK FRAGS (203mm)									
64			093	2						
66			094	2						
68			095	2						
70			096	2						
72			097	2						
74			098	2						
76			099	2						
78			210100	2						
80			101	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. Cum 45  
PAGE 4 OF 4

PROJECT:..... DATE STARTED: ..... TYPE OF DRILL: .....  
AREA:..... COORDINATES: ..... HOLE SIZE: .....  
LOCATION:..... CONTRACTOR: .....  
STARTED:..... ELEVATION:..... DRILLER: .....  
COMPLETED:..... DEPTH: ..... LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
62	GALY CLAY + WEATHERED SCHIST	—	210102	2						
	FRAGS (70 3mm)	—								
		—								
		—								
64		—	103	2						
		—								
		—								
		—								
66		—	104	2						
		—								
		—								
		—								
69		—	105	2						
		—								
		—								
		—								
70		—	106	2						
		—								
		—								
		—								
	QTZ BI GN FELD GNEISS	—	107	1						
	END 71m	—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. CUM46  
PAGE 1 OF 3

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PROJECT: CUMMINIS DATE STARTED: 26.4.85 TYPE OF DRILL: TR3, IR  
AREA: EUREPENNINSULA 2230 HOLE SIZE: 6"  
LOCATION: TRAVERSE 4 COORDINATES: Repeat of Cum 12 CONTRACTOR: PRITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 59 m LOGGED BY: J. DUNN / T. JUST

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Co	Pb	Zn	Ni	Mn
2.0	DK RED BROWN CLAY	---	209525	2						
		---								
		---								
		---								
4.0	FELICITATED SILT.	---	526	2						
		---								
		---								
		---								
6.0	WHITISH WEATHERED ? SCHIST.	---	527	2						
		---								
		---								
		---								
8.0	Pale GRAY BROWN WEATHERED SCHIST.	---	528	2						
		---								
		---								
		---								
10.0	YELLOWISH QTZ FELD BLENDED SCHIST. WEATHERED	---	528	2						
		---								
		---								
		---								
12.0		---	530	2						
		---								
		---								
		---								
14.0		---	531	2						
		---								
		---								
	QTZ FELD MUSC. SCHIST.	---								
16.0	V. PALE GREEN TO WHITE MICACEOUS CLAY (WEATHERED B' ROCK)	---	210108	2						
		---								
		---								
		---								
18.0		---	109	2						
		---								
		---								
		---								
20.0		---	110	2						
		---								
		---								
		---								

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	V. PALE GLASSY CLAY		210101	2						
	(WEATHERED B'ROCK)									
24			113	2						
26	WHITE TO ORANGE CLAY		114	2						
28	RED ORANGE FERRUG. CLAY.		115	2						
30	LIGHT BROWN CLAY	OCC QZ	116	2						
		CLAST								
		(TO 3mm)								
32			117	2						
34			118	2						
36			119	2						
38			120	2						
			121	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	LIGHT BROWN MICACEOUS CLAY + Q72 CLASTS	—	210122	2						
	(To 1cm)	—								
		—								
		—								
44		—	123	2						
		—								
		—								
		—								
46		—	124	2						
		—								
		—								
		—								
48		—	125	2						
		—								
		—								
		—								
50	GRAY CLAY + Q72, FELD BI CLASTS	—	126	2						
		—								
		—								
		—								
52		—	127	2						
		—								
		—								
		—								
54		—	128	2						
		—								
		—								
		—								
56		—	129	2						
		—								
		—								
		—								
58		—	130	2						
		—								
		—								
		—								
60	Q72, FELD, BI, GRW GNEISS	—	131	1						
	(END) 59m	—								
		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

291

HOLE No. CUM 47  
PAGE 1 OF 1

PROJECT: CUMMINS      DATE STARTED: 26-4-85      TYPE OF DRILL: TR3, I.R.  
AREA: EUREPENNINSULA      COORDINATES: 2530      HOLE SIZE: 6"  
LOCATION: TRAVERSE 4      ELEVATION:      CONTRACTOR: P. NITSCHE DRILLING  
STARTED:      DEPTH: 56 m      DRILLER:      LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	RED BROWN SILT / CLAY	132	2						
4.0	RED BROWN FINE SILT / CLAY SAND	133	2						
	minor FINE								
6.0		134	2						
8.0	WHITISH POORLY SORTED SAND.	135	2						
10.0	WHITE CLAY (WEATHERED B' ROCK)	136	2						
	↓								
12.0	V. DARK GREEN CLAY	138	2						
14.0		139	2						
16.0		140	2						
18.0		141	2						
20.0	OLIVE GREEN CLAY	142	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED: ..... TYPE OF DRILL: .....  
AREA:..... COORDINATES: ..... HOLE SIZE: .....  
LOCATION:..... CONTRACTOR: .....  
STARTED:..... ELEVATION: ..... DRILLER: .....  
COMPLETED:..... DEPTH: ..... LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	OLIVE GREEN CLAY (WEATHERED B'ROCK)		200143	2						
24			144	2						
26	DK. GREEN / BROWN CLAY		145	2						
28			146	2						
30			147	2						
32			148	2						
36			149	2						
36			150	2						
38			151	2						
40			152	2						



PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	Greenish Brown clay		210153	2						
44			154	2						
46	V. DR Green CLAY + QTZ. FELD		155	2						
	BI ? GREENISH CLAYS									
48			156	2						
50			157	2						
52			158	2						
54			159	2						
56	QTZ. FELD, BI, GRN GNEISS.		160	2						
	END 56									

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 48  
PAGE 1 OF 3

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PROJECT: CUMMINIS DATE STARTED: 27.4.85 TYPE OF DRILL: TR3, IR  
AREA: E. I. PENINSULA COORDINATES: 3130 HOLE SIZE: 6"  
LOCATION: TRAVERSE 4 CONTRACTOR: PNITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 48m LOGGED BY: J. DUNN / T. JUST

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	RED SILT / CLAY	210161	2						
4.0		162	2						
6.0		164	2						
8.0		165	2						
10.0	PURPLE (WASH F.G. CEMENTED SAND	166	2						
12.0		167	2						
14.0	LOOSE WHITE / YELLOW COARSE SAND	168	2						
16.0		169	2						
18.0	MED TO COARSE POORLY SORTED LOOSE SAND	170	2						
20.0		171	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... COORDINATES:..... HOLE SIZE:.....  
LOCATION:..... ELEVATION:..... CONTRACTOR:.....  
STARTED:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	GREY POORLY SORTED LOOSE SAND.	.	210172	2						
24	COARSE RED / BROWN LOOSE SAND WHITE CLAY	.	173	2						
26	WHITE CLAY + FINE QZ CLASTS (JUNGATHERED) BLACK	-	174	2						
28		-	175	2						
30	DK GREY CLAY (? GRAPHITIC SCHIST OR ? BIOTITE)	-	176	2						
32		-	177	2						
34	DK GRAY / GRAY CLAY (v. FINE QZ CLASTS)	-	178	2						
36		-	179	2						
38		-	180	2						
40		-	181	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....DATE STARTED:.....TYPE OF DRILL: .....

AREA:.....HOLE SIZE: .....

LOCATION:.....COORDINATES: .....

STARTED:.....ELEVATION:.....CONTRACTOR: .....

COMPLETED:.....DEPTH: .....DRILLER: .....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	DK GRAY CLAY + FINE QTZ	— —	210182	2						
		— —								
	+ INCREASING % ROCK FRAGS ↓	— —								
		— —								
44		— —	183	2						
		— —								
		— —								
		— —								
46		— —	184	2						
		— —								
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		— —								
48	V. BIOSITIC QTZ (? FELD) GARNET GNEISS	— —	185	2						
		— —								
		— —								
	END 48	— —								
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PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. CUM 49

PAGE 1 OF 4

PROJECT: CUMMINS  
AREA: EUREPENNINSULA  
LOCATION: TRAVERSE 5  
STARTED:  
COMPLETED:

DATE STARTED: 27.4.85  
COORDINATES: 3880  
ELEVATION:  
DEPTH: 66 m

297  
TYPE OF DRILL: TR3, IR  
HOLE SIZE: 6"  
CONTRACTOR: PMITSCHE DRILLING  
DRILLER:  
LOGGED BY: J DUNN / T JUST

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	RED SILT CLAY	210186	2						
	BUFF — —								
4.0	GRAY CLAY	187	2						
6.0	GRAY / RED CLAY	189	2						
8.0	CLAY + FINE SAND	190	2						
	MINOR CRUMBLING LAYERS								
10.0		192	2						
12.0	WHITE LOOSE FINE SAND	193	2						
14.0	PINK LOOSE	194	2						
16.0	ORANGE LOOSE SAND (PARTLY FINE CRUMBLING)	195	2						
18.0	WHITE / ORANGE BRITTY CLAY WEATHERED B' ROCK ↓	196	2						
20.0		197	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. CUM 49

PAGE 2 OF 4

PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... HOLE SIZE:.....  
LOCATION:..... COORDINATES:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	ORANGE / WHITE CLAY	—	210198	2						
		—								
		—								
		—								
24		—	199	2						
		—								
		—								
		—								
26	BUFF CLAY + QTZ, mica + RARE FE CLASTS	—	200	2						
		—								
		—								
		—								
28		—	201	2						
		—								
		—								
		—								
30		—	202	2						
		—								
		—								
		—								
32	LIGHT + DK GREY CLAY	—	203	2						
		—								
		—								
		—								
34		—	204	2						
		—								
		—								
		—								
36		—	205	2						
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38		—	206	2						
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40		—	207	2						
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PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION: .....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	R6DDUH CLAY + ABUNDANT QZ CLASTS		20208	2						
	(to 5mm)									
44			209	2						
46			210	2						
48			211	2						
50			212	2						
52	DK. WEATHERED ROCK		213	2						
	CHIPS INCREASING ↓									
54			214	2						
56			216	2						
58			217	2						
60			218	2						

HOLE No. Cum 49

PAGE 4 OF 4

PROJECT: CUMMINS

DATE STARTED: .....

TYPE OF DRILL: TR3, IR

AREA:.....EUROPEAN PENINSULA.....

HOLE SIZE: .....6".....

LOCATION: TRAVERSE

**COORDINATES:**

CONTRACTOR: P. NITSCHE DRILLING

**STARTED:**.....

ELEVATION:.....

**DRILLER:** .....

COMPLETED: .....

DEPTH: .....

LOGGED BY: J. DUNN/T. JUST.

[illegible]



PACMINEX PTY. LTD.—FIELD DRILL LOG

301

HOLE No. Cum 50  
PAGE 1 OF 4

PROJECT: CUMMINS      DATE STARTED: 27.1.85      TYPE OF DRILL: TR3, I.R.  
AREA: E. REPENNINSULA      COORDINATES: 3980      HOLE SIZE: 6"  
LOCATION: TRAVERSE 5      ELEVATION:      CONTRACTOR: P. MITSCHE DRILLING  
STARTED:      DEPTH: 76 m      DRILLER:      LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	SILT / SAND	210222	2						
	GREEN BROWN CLAY								
4.0	GREEN / BROWN CLAY	223	2						
6.0	CLAY	224	2						
	V.FINE FERRUGINEOUS SAND								
8.0	V.FINE RED / ORANGE SAND PART. FE.	225	2						
	(GMASTED).								
10.0	YELLOW LOOSE SAND	226	2						
12.0	RED / OR FERRUGINOUS LOOSE SAND	227	2						
14.0		228	2						
16.0	CLAYEY SAND.	229	2						
18.0	SANDY CLAY.	230	2						
20.0	BUFF CLAY + ANG QTZ + FERRUG.	231	2						
	QTZ FRAGS.								

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 50  
PAGE 2 OF 4

302

PROJECT: CUMMINS DATE STARTED: TYPE OF DRILL: TR3, I.R.  
AREA: EUREPENINSULA HOLE SIZE: 6"  
LOCATION: TRAVERSE COORDINATES: CONTRACTOR: P. NITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: LOGGED BY: J. DUNN / I. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
22.0	BUFF CLAY + ANG QTZ CLASTS	210212	2						
	(? B' ROCK?)								
24.0		233	2						
46.0	C-E-1 CLAY + ANG QTZ CLASTS	214	2						
	+ OCC. MICACEOUS								
	CLAST								
28.0		235	2						
30.0		237	2						
32.0	GRITTY BLuish GREY CLAY (WEATHERED	238	2						
	B' ROCK)								
34.0		239	2						
36.0	GRITTY OLIVE GREEN CLAY	240	2						
38.0		241	2						
40.0	RED / BROWN CLAY + ABUNDANT	242	2						
	QTZ CLASTS + OCC. MICA-								
	GOUL CLASTS								

PACMINEX PTY. LTD.—FIELD DRILL LOG

303 HOLE No. Cum 50  
PAGE 3 OF 4

PROJECT: CUMMINS DATE STARTED: TYPE OF DRILL: TR3, I.R.  
AREA: EUREPENINSULA HOLE SIZE: 6"  
LOCATION: TRAVERSE COORDINATES: CONTRACTOR: P. NITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
42.0	GREEN BROWN CLAY	210243	2						
	ABUNDANT BIOTITE MINOR QZ CLASTS								
44.0		246	2						
46.0		245	2						
48.0	OLIVE GREEN CLAY ABUNDANT BIOTITE - GARNET CLASTS	246	2						
50.0		247	2						
52.0		248	2						
54.0		249	2						
56.0	OLIVE GREEN CLAY + QZ, FELD + GARNET - BIOTITE CLASTS	250	2						
58.0		251	2						
60.0		252	2						

# PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT: CUMMINS

DATE STARTED: .....

TYPE OF DRILL: TR3, IR

AREA:.....EUROPEAN PENINSULA.....

**COORDINATES:**

HOLE SIZE: .....6".....

LOCATION: TRAVERSE

COORDINATES: .....

CONTRACTOR: P. NITSCHE DRILLING

**STARTED:**.....

ELEVATION:.....

**DRILLER:** .....

COMPLETED: .....

DEPTH: .....

LOGGED BY: J. DUNN/T. JUST.

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. CUM 51  
PAGE 1 OF 4

PROJECT: CUMMINS DATE STARTED: 27-4-85 TYPE OF DRILL: TR3, I.R.  
AREA: E. AFRICA PENINSULA COORDINATES: 4080 HOLE SIZE: 6"  
LOCATION: TRAVERSE 5 CONTRACTOR: P. NITSCH DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 74 m LOGGED BY: J. DUNN / T. JUST

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	BUFF CLAY	210261	2						
4.0	FERRICRITE	262	2						
6.0	FERRICRITE	263	2						
	ORANGE SAND (loose) med to coarse								
8.0	YELLOW LOOSE SAND	264	2						
10.0	LOOSE OR TO V. DK RED SAND	265	2						
12.0		266	2						
14.0	LOOSE ORANGE SAND med FERRICRITE	268	2						
16.0	BROWN LOOSE SAND med to v. coarse	269	2						
18.0	V. PALE GRAY / ORANGE CLAY WEATHERED B'ROCK ↓	270	2						
20.0		271	2						

# PACMINEX PTY. LTD.—FIELD DRILL LOG

306

HOLE No. CUM 51  
PAGE 2 OF 4

PROJECT: CUMMINS DATE STARTED: \_\_\_\_\_ TYPE OF DRILL: TR3, I.R.  
AREA: E. Y. PENINSULA COORDINATES: \_\_\_\_\_ HOLE SIZE: 6"  
LOCATION: TRAVERSE CONTRACTOR: P. NITSCHE DRILLING  
STARTED: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ DRILLER: \_\_\_\_\_  
COMPLETED: \_\_\_\_\_ DEPTH: \_\_\_\_\_ LOGGED BY: J. DUNN / T. JUST

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
22.0	GRN CLAY WEATHERED B'ROCK	210272	2						
24.0	FINE QTZ CLASTS	273	2						
26.0		274	2						
28.0	DK GRN CLAY	275	2						
30.0	PURPLE CLAY	276	2						
32.0	DK BROWN CLAY DK WEATHERED ROCK CLASTS ?BIOTITIC	277	2						
34.0		278	2						
36.0	DK RED BROWN CLAY	279	2						
38.0	GRN BROWN HARD ?SILICEOUS CLASTS (SAMPLE KEPT)	280	2						
40.0		281	2						

# PACMINEX PTY. LTD.—FIELD DRILL LOG

307

HOLE No. Cum 51

PAGE 3 OF 4

PROJECT: CUMMINS

DATE STARTED:

TYPE OF DRILL: TR3, I.R.

AREA: E. AFRICA PENINSULA

COORDINATES:

HOLE SIZE: 6"

LOCATION: TRAVERSE

ELEVATION:

CONTRACTOR: P. NITSCHE DRILLING

STARTED:

DRILLER:

COMPLETED:

DEPTH:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
42.0	BLUE GRAY CLAY QZ CLASTS + HARD IRREG SHAPED BUFF COLOURED CLASTS (? SILICEOUS)	210282	2						
44.0		284	2						
46.0		285	2						
48.0		286	2						
50.0	LIGHT BROWN CLAY - FINE QZ CLASTS	287	2						
52.0		288	2						
54.0		289	2						
56.0	LIGHT BROWN GREEN CLAY. ABUNDANT FINE QZ CLASTS + DEC BIOTIC CLASTS	290	2						
58.0	GREY CLAY ABUNDANT FINE QZ CLASTS (3mm)	291	2						
60.0		292	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. CUM 51

PAGE 4 OF 4

PROJECT: CUMMINIS

DATE STARTED:

TYPE OF DRILL: TR3 I.R.

AREA: EYRE PENINSULA

COORDINATES:

HOLE SIZE: 6"

LOCATION: TRAVERSE

CONTRACTOR: P. NITSCHE DRILLING

STARTED:

ELEVATION:

DRILLER:

COMPLETED:

DEPTH:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Co	Pb	Zn	Ni	Mn
62.0	GRY CLAY. QZ CLASTS	—	210293	2						
	(50 mm)	—								
		—								
		—								
64.0		—	294	2						
		—								
		—								
		—								
66.0		—	295	2						
		—								
		—								
		—								
68.0	QTZ + Bt CLASTS	—	296	2						
		—								
		—								
		—								
70.0		—	297	2						
		—								
		—								
		—								
72.0		—	298	2						
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		—								
		—								
74.0	QTZ, FELD, F.G. BIOTITE ? GNEISS	—	299	2						
		—								
		—								
		—								
74.0	END 74.0m.	—								



PACMINEX PTY. LTD.—FIELD DRILL LOG

309

PROJECT: CUMMINIS      DATE STARTED: 29.4.85      TYPE OF DRILL: TR3, I.R.  
AREA: EUREPENINSULA      COORDINATES: 4180      HOLE SIZE: 6"  
LOCATION: TRAVERSE 5      ELEVATION:      CONTRACTOR: P.NITSCHE DRILLING  
STARTED:      DEPTH: 36m      DRILLER:      LOGGED BY: J.DUNN/T.JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	FERRUG SILT/CLAY	210300	2						
4.0	SILT CLAY, SILICATE / FERRIC RICH.	301	2						
6.0	FERRIC RICH SAND + LOOSE SAND (MED TO FINE)	302	2						
8.0	RED ORANGE LOOSE MED TO COARSE SAND	303	2						
10.0		304	2						
12.0	RED / ORANGE CLAYEY SAND	305	2						
14.0		306	2						
16.0	ORANGE CLAYEY SAND	307	2						
18.0	WHITISH / BROWN GRITTY CLAY WHITENED BLOCK	308	2						
20.0	RED BROWN	309	2						

## 310

PAGE 2 OF 2

DATE STARTED: .....

TYPE OF DRILL: TR3, IR

COORDINATES:

HOLE SIZE: ..... 6" .....

COORDINATES: .....

CONTRACTOR: P. MITCHELL DRILLING

**STARTED:**.....

ELEVATION:.....

**DRILLER:** .....

COMPLETED: .....

DEPTH: .....

LOGGED BY: J. DUNN/T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
22.0	BROWN CLAY (CRITTY)	210310	2						
24.0	DK GRAY / GREEN CLAY + ABUNDANT QTZ + BIOTITE FRAGS	311	2						
26.0		312	2						
28.0		313	2						
30.0		314	2						
32.0		315	2						
34.0		316	2						
36.0	FELS QTZ, BIOTITE GR, GNEISS	318	2						
38.0	END 38.0								

PACMINEX PTY. LTD.—FIELD DRILL LOG

311

HOLE No. CUM 53

PAGE 1 OF 4

PROJECT: CUMMINS

DATE STARTED: 29.4.85

TYPE OF DRILL: TR3, I.R.

AREA: EYRE PENINSULA

COORDINATES: 3780

HOLE SIZE: 6"

LOCATION: TRAVERSE 5

ELEVATION:

CONTRACTOR: P. NITSCHE DRILLING

STARTED:

DEPTH: 63m

DRILLER:

COMPLETED:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
2.0	LIGHT BROWN CLAY	210319	2						
4.0		320	2						
6.0	RED BROWN GREY MOTTLED CLAY + BWD. FERRUG. FRAGS.	321	2						
8.0	GRAY RED CLAY + FERRICrete	322	2						
10.0	PURPLE RED F.G. CEMENTED SAND. (FERRICrete)	323	2						
12.0	WHITE ORANGE DR RED W/LL SORTED LOOSE F.G. SAND.	324	2						
14.0		325	2						
16.0	PURPLE FERRUG. F.G. LOOSE SAND.	326	2						
18.0	YELLOW F. TOM. SAND OCC CLAYEY	327	2						
20.0	PURPLE DARK SAND (CLAYEY)	328	2						

# PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. CUM 53

312

PAGE 2 OF 4

PROJECT: CUMMINS

DATE STARTED: .....

TYPE OF DRILL: TR3, I.R.

AREA: EUREPENINSULA

COORDINATES: .....

HOLE SIZE: 6"

LOCATION: TRAVERSE

ELEVATION: .....

CONTRACTOR: P. NITSCHE DRILLING

STARTED: .....

DRILLER: .....

COMPLETED: .....

DEPTH: .....

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
	ORANGE TO WHITE CLAY								
	(WEATHERED B' ROCK)								
			2						
22.0		210329							
	YELL. OR. CLAY								
			2						
24.0		330							
	GRAY CLAY (FINE QTZ GRAITS								
	to 2mm)		2						
26.0		331							
			2						
28.0		332							
			2						
30.0	DK. GRAY CLAY.								
			2						
32.0		333							
			2						
34.0		334							
	BLUE GRAY CLAY								
			2						
36.0		335							
			2						
38.0		336							
			2						
		337							
	DK OLIVE GREEN CLAY								
			2						
40.0		338							

PACMINEX PTY. LTD.—FIELD DRILL LOG

313

HOLE No. Cum 53

PAGE 3 OF 4

PROJECT: CUMMINS

DATE STARTED:

TYPE OF DRILL: TR3, I.R.

AREA: EUREPENINSULA

COORDINATES:

HOLE SIZE: 6"

LOCATION: TRAVERSE

CONTRACTOR: P. NITSCHE DRILLING

STARTED:

ELEVATION:

DRILLER:

COMPLETED:

DEPTH:

LOGGED BY: J. DUNN/T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
	V.DK. GREEN CLAY + QZ FRAGS (TO 5mm)		2						
42.0		210179							
			2						
44.0		340							
			2						
46.0		342							
			2						
48.0		343							
			2						
50.0	+ QZ + FELD FRAGS (TO 3mm)	344							
			2						
52.0		345							
			2						
54.0		346							
			2						
56.0		347							
			2						
58.0	+ WEATHERED BEDROCK CREST	348							
			2						
60.0		349							

## 314

HOLE No. (Jm 53)

PAGE 4 OF 4

PROJECT:..... DATE STARTED: ..... TYPE OF DRILL: .....

AREA: ..... HOLE SIZE: .....

LOCATION:..... CONTRACTOR: .....

STARTED:..... ELEVATION:..... DRILLER: .....

COMPLETED: ..... DEPTH: ..... LOGGED BY: .....

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

315

HOLE No. Cum Sh  
PAGE 1 OF 4

PROJECT: CUMMINS DATE STARTED: 30.4.85 TYPE OF DRILL: TR3, I.R.  
AREA: E.I. RE PENINSULA COORDINATES: 2535 HOLE SIZE: 6"  
LOCATION: TRAVERSE 7 CONTRACTOR: P. NITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 66 m LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	CALCRETE	210352	2						
4.0	CALCRETE	353	2						
	ORANGE SILT								
6.0	ORANGE SILT/CLAY	354	2						
8.0	ORANGE SILT.	355	2						
10.0		356	2						
12.0	PARTLY CEMENTED	357	2						
	RED F.T.O.C								
	POORLY SORTED SAND.								
14.0		358	2						
16.0		359	2						
18.0		360	2						
20.0		361	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

316

HOLE No. CUM 54

PAGE 2 OF 4

PROJECT: CUMMINIS  
AREA: EUREPENINSULA  
LOCATION: TRAVERSE 7  
STARTED:  
COMPLETED:

DATE STARTED:  
COORDINATES:  
ELEVATION:  
DEPTH:

TYPE OF DRILL: TR3, I.R.  
HOLE SIZE: 6"  
CONTRACTOR: P. NITSCHE DRILLING  
DRILLER:  
LOGGED BY: J. DUNN / I. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
22.0	WHITE F.G. PARTLY CEMENTED SAND	210363	2						
24.0	WHITE SILT/CLAY (? WEATHERED B' ROCK)	364	2						
26.0	RED / BROWN FERRUG SAND / SILT.	365	2						
28.0		366	2						
30.0	Buff micaceous CLAY	367	2						
32.0		368	2						
34.0	Buff / WHITE micaceous CLAY	369	2						
36.0	Gravel / WHITE	370	2						
38.0	Gravel , CLAY	371	2						
40.0			2						



PACMINEX PTY. LTD.—FIELD DRILL LOG

317

HOLE No. Cum 54

PAGE 2 OF 4

TYPE OF DRILL: TR3, I.R.

HOLE SIZE: 6"

CONTRACTOR: P. NITSCHE DRILLING

DRILLER:

LOGGED BY: J. DUNN / T. JUST.

PROJECT: CUMMINS

DATE STARTED:

AREA: E. RE PENNINSULA

COORDINATES:

LOCATION: TRAVERSE

STARTED:

ELEVATION:

COMPLETED:

DEPTH:

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
42.0	CLAY + WEATHERED BISTITE GN. GNEISS	210373	2						
	(SCHIST) CLASTS + OCC. FERRUGINOUS CLASTS								
44.0		374	2						
46.0	BROWN GREEN CLAY + ABUNDANT FERRUGINOUS (S&S) ? GNEISS CLASTS. (MED GRAINED)	375	2						
48.0	BROWN GREEN CLAY. BI, GN. SCHIST + LENS (F&L + Q72 CLASTS) (GNEISS)	376	2						
50.0	DARK BROWN CLAY. Q72 CLASTS (TO 1cm) + OCC SCHIST + F&L.	377	2						
52.0	GREEN FINELY DIVIDED MICACEOUS CLAY	378	2						
54.0	BROWN GRITTY CLAY. ABUNDANT Q72 + F&L (TO 5mm). MINOR F&L CLASTS.	379	2						
56.0		380	2						
58.0	DK GREEN CLAY + ABUNDANT BI. FLAKES + Q72 + F&L.	381	2						
60.0	DK. GREEN CLAY. BI-GN SCHIST CLASTS (GNEISS).	382	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....HOLE SIZE:.....

LOCATION:.....COORDINATES:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
62	GREEN CLAY, ABUNDANT BIOTITE GN. GNEISS FRAGS	— — — — —	210383							
		— — — — —								
		— — — — —								
		— — — — —								
64		— — — — —	385							
		— — — — —								
		— — — — —								
		— — — — —								
66	STILL SLIGHTLY WEATHERED	~ ~ ~ ~ ~	386							
	FINISH 66	~ ~ ~ ~ ~								
		~ ~ ~ ~ ~								
		~ ~ ~ ~ ~								

# PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 55

319

PAGE 1 OF 2

PROJECT: CUMMINS

DATE STARTED: 20 4 85

TYPE OF DRILL: TR3, I.R.

AREA: E.I. PENINSULA

COORDINATES: 2435

HOLE SIZE: 6"

LOCATION: TRAVERSE 7

ELEVATION:

CONTRACTOR: P. MITCHELL DRILLING

STARTED:

DEPTH: 39 m

DRILLER:

COMPLETED:

LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	CALCRETE	20387	2						
4.0	CALCRETE + FINE OR SAND / SILT.	388	2						
6.0	RED SILT / SAND (F. TO C.) POORLY SORTED	389	2						
8.0	RED / BROWN F. TO M. POORLY SORTED PARTLY CEMENTED SAND.	390	2						
10.0		391	2						
12.0		392	2						
14.0		393	2						
16.0		394	2						
18.0	LIGHT BROWN SAND	395	2						
20.0	MOTTLED WH, OR. RED SILT / CLAY.	396	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 55

320

PAGE 2 OF 2

PROJECT: CUMMINS

DATE STARTED:

TYPE OF DRILL: TR3, I.R.

AREA: E. REPENNINSULA

COORDINATES:

HOLE SIZE: 6"

LOCATION: TRAVERSE

ELEVATION:

CONTRACTOR: P. NITSCHE DRILLING

STARTED:

DRILLER:

COMPLETED:

DEPTH:

LOGGED BY: J. DUMN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
22.0	DK RED BROWN SILT	210797	2						
	WHITE CLAY								
24.0	LIGHT RED BROWN SILT	398	2						
	WHITE CLAY								
26.0	WHITE / PURPLE CLAY. ABUNDANT FERRUG- INOUS CLASTS (to 2cm)	399	2						
28.0	PALE PURPLE CLAY	400	2						
30.0	PALE GREEN MOTTLED RED ORANGE MICACEOUS CLAY	401	2						
32.0		402	2						
34.0	PALE MICACEOUS CLAY	403	2						
36.0	DK GREEN FINELY DIVIDED CLAY ABUNDANT FELD QZ & OCC BISTITE FRANKS	404	2						
38.0		405	2						
39.0	QZ FELD BISTITE GRANITOID. STRONGLY MAGNETIC. V. FRESH. HARD DRILLING WITH END 39. HAMMER	406	1						

# PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. CUM 56

321

PAGE 1 OF 2

PROJECT: CUMMINS

DATE STARTED: 8/5/85

TYPE OF DRILL: TR3, I.R.

AREA: E. RE PENNINSULA

COORDINATES: 2335

HOLE SIZE: 6"

LOCATION: TRAVERSE 7

CONTRACTOR: P. MITSCHE DRILLING

DRILLER:

STARTED:

ELEVATION:

LOGGED BY: J. DUNN / T. JUST.

COMPLETED:

DEPTH: 28m

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	CACRETE	210407	2						
4.0	CACRETE	408	2						
	RED ORANGE CLAY / SILT								
6.0	RED ORANGE CLAY / SILT	409	2						
	RED F to m SAND. (cemented)								
8.0	RED (ORANGE V.F. to m. GRAINED)	410	2						
	PARTLY CEMENTED SAND.								
10.0	YELLOW V.F. to m. GRAINED PARTLY	411	2						
	CEMENTED SAND.								
12.0	BUFF TO PURPLE SILT & SAND. PART	412	2						
	FRAGMENTED.								
14.0	PURPLE SILT. PARTLY FRAGMENTED.	414	2						
16.0	PURPLE SILT. ABUNDANT DK PURPLE	415	2						
	FL : ZONES								
18.0	WHITE / BUFF CLAY (? WEATHERED	416	2						
	B' ROCK ?)								
20.0	MOTTLED BUFF / RED CLAY	417	2						

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PAGE 2 OF 2

DATE STARTED: .....

TYPE OF DRILL: TR3, IR

COORDINATES:

HOLE SIZE: .....6".....

.....

CONTRACTOR: P. NITSCHE DRILLING

**STARTED:**.....

ELEVATION:.....

DRILLER: .....

COMPLETED: .....

DEPTH: .....

LOGGED BY: J. DUNN / T JUST

[illegible]

323

HOLE No. Cum 57

PAGE 1 OF 1

TYPE OF DRILL: TR3, IR

HOLE SIZE: .....6".....

CONTRACTOR: P. MITSCHE DRILLING

**DRILLER:** .....

LOGGED BY: .....J. DUNN/T JUST.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Co	Pb	Zn	Ni	Mn
2.0	CALCRETE	( 1 1 )	210422	2						
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
4.0	CALCRETE	( 1 1 )	423	2						
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
6.0	Pale Brown SAND, PART V. INDURATED	( 1 1 )	424	2						
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
8.0	FINE LIGHT BROWN SAND	( 1 1 )	425	2						
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
10.0	GNEISS? ROCK FRAGS	( 1 1 )	426	2						
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
	DK. V. HARD FRESH	( 1 1 )	427	1						
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
	CRUDLY LAMINATED QTZ FELD BI. ROCK.	( 1 1 )								
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
	END 11m	( 1 1 )								
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								
		( 1 1 )								

## 324

PAGE 1 OF 1

TYPE OF DRILL: .....TR3, IR.....

HOLE SIZE: .....6".....

CONTRACTOR: P. NITSCHE DRILLING

DRILLER: .....

LOGGED BY: J. DUNN/T. JUST.

[illegible]



PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. COM 59  
PAGE 1 OF 2

PROJECT: CUMMINS DATE STARTED: 1-5-85 TYPE OF DRILL: TR3, I.R.  
AREA: EUREPENINSULA COORDINATES: 1900 HOLE SIZE: 6"  
LOCATION: TRAVERSE 16 CONTRACTOR: P. MITSCHE DRILLING  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 33 m LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Co	Pb	Zn	Ni	Mn
2.0	CALCRETE		210431	2						
4.0			432	2						
6.0	RED BROWN CLAY / SILT. PARTLY HARDENED	----	433	2						
		----								
		----								
		----								
		----								
8.0		----	434	2						
		----								
		----								
		----								
		----								
10.0	Pale GREEN CLAY	----	435	2						
		----								
		----								
		----								
		----								
12.0	Pale GREEN CLAY	----	436	2						
		----								
		----								
		----								
		----								
14.0	RED BROWN GREEN CLAY + FE CLASTS	----	437	2						
		----								
		----								
		----								
		----								
16.0		----	438	2						
		----								
		----								
		----								
		----								
18.0	GREEN BROWN CLAY + FE CLASTS	----	439	2						
		----								
		----								
		----								
		----								
20.0	LIGHT TO DK GREEN CLAY	----	440	2						
		----								
		----								
		----								
		----								

326

PAGE 2 OF 2

DATE STARTED: .....

TYPE OF DRILL: TR3, IR.

HOLE SIZE: .....6".....

COORDINATES:

CONTRACTOR: P. NITSCHE DRILLING

STARTED:.....

ELEVATION:.....

**DRILLER:** .....

COMPLETED: .....

DEPTH: .....

LOGGED BY: J. DUNN/T JUST

[illegible]

## 327

PAGE 1 OF 1

TYPE OF DRILL: TR3, IR

HOLE SIZE: ..... 6" .....

CONTRACTOR: P. MITSCHE DRILLING

**DRILLER:** .....

LOGGED BY: J. DUNN/T JUST

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

328

HOLE No. Cum 61  
PAGE 1 OF 1

PROJECT: CUMMINS      DATE STARTED: 7/5/85      TYPE OF DRILL: TR3, I.R.  
AREA: E. IRE PENNINSULA      1050      HOLE SIZE: 6"  
LOCATION: TRAVERSE 14      COORDINATES:      CONTRACTOR: P. NITSCHE DRILLING  
STARTED:      ELEVATION:      DRILLER:      LOGGED BY: J. DUMN / T. JUST.

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	CALCRETE	210455	2						
	SILT.								
4.0	RED BROWN SILT / CLAY (FE CLASTS)	456	2						
6.0		457	2						
8.0	RED BROWN → WHITE SILT / CLAY FE CLASTS	458	2						
10.0	RED BROWN CLAY ABUNDANT FE CLASTS	459	2						
12.0		460	2						
14.0	BUFF CLAY SILT ABUNDANT V. ANG QZZ CLASTS. MINOR AMPHIB CLASTS.	461	2						
16.0	HARD DRILLING. V. FIRM ROCK FRAGS. QZZ + AMPHIB.	462	2						
18.0	END 16m								

# PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 62

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PAGE 1 OF 1

PROJECT: CUMMINS

DATE STARTED: 1/5/85

TYPE OF DRILL: TR3, I.R.

AREA: E.I. PENINSULA

COORDINATES: 980

HOLE SIZE: 6"

LOCATION: TRAVERSE 14

CONTRACTOR: P. NITSCHE DRILLING

DRILLER: J. DUNN / T. JUST.

STARTED:

ELEVATION:

LOGGED BY: J. DUNN / T. JUST.

COMPLETED:

DEPTH: 20 m

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	Ni	Mn
2.0	CACRETE	210468	2						
4.0		465	2						
6.0	Red Brown CLAY SIL + Fk CLASTS Round Gr.	466	2						
8.0		467	2						
10.0	Brown CLAY + QZ CLASTS (ANG)	468	2						
12.0		469	2						
14.0	Pale Green BUFF CLAY + ABUNDANT WEATHERED ? AMPHIB CLASTS + occ QZ	470	2						
16.0		471	2						
18.0		472	2						
20.0	? AMPHIBOLITE? END 20m NOT QUITE BASS	473	2						

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PAGE 1 OF 1

TYPE OF DRILL: TR3, IR

HOLE SIZE: .....6".....

CONTRACTOR: P. MITSCHE DRILLING

**DRILLER:** .....

LOGGED BY: J. DUNN/T. JUST.

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

331

HOLE No. CUM 64  
PAGE 1 OF 1

PROJECT: CUMMINS      DATE STARTED: 1/5/85      TYPE OF DRILL: TR3, I.R.  
AREA: E. RE PENNINSULA      HOLE SIZE: 6"  
LOCATION: TRAVERSE 14      COORDINATES: 780      CONTRACTOR: P. MITCHELL DRILLING  
STARTED:      ELEVATION:      DRILLER:      LOGGED BY: J. DUNN / T. JUST.  
COMPLETED:      DEPTH: 20 m

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
				Cu	Co	Pb	Zn	NI	Mn
2.0	SILT / CLAY	210480	2						
4.0	Red brown clay	482	2						
6.0	WHITE / ORANGE CLAY (WEATHERED) BROWN	483	2						
8.0	ORANGE / RED CLAY + ABUNDANT WEATHERED RBD + ORANGE ROCK FRAGS	484	2						
10.0	ORANGE / GREEN CLAY + ABUNDANT WEATHERED ? AMPHIB CLIPS (ALSO minor QZ.)	485	2						
12.0		486	2						
14.0		487							
16.0	Pale olive green clay + ABUNDANT ? AMPHIB FRAGS.	488	2						
18.0	Red brown clay + AMPHIB CLIPS	489	2						
20.0	AMPHIBOLITIC SCHIST	490	2						

# PACMINEX PTY. LTD.—FIELD DRILL LOG

332

HOLE No. Cum 65  
PAGE 1 OF 2

PROJECT: CUMMINIS  
AREA: E. IRE PENNINSULA  
LOCATION: TRAVERSE 14  
STARTED: .....  
COMPLETED: .....

DATE STARTED: 2/5/85  
COORDINATES: 1030  
ELEVATION: .....  
DEPTH: 29 m

TYPE OF DRILL: TR3, I.R.  
HOLE SIZE: 6"  
CONTRACTOR: P. NITSCHE DRILLING  
DRILLER: .....  
LOGGED BY: J. DUNN / T. JUST.

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
					Cu	Co	Pb	Zn	Ni	Mn
2.0	CALCRETE	111	210491	2						
	SILT	111								
		---								
4.0	RED BROWN CLAY	---	492	2						
		---								
		---								
6.0	RED CLAY / SILT	---	493	2						
		---								
		---								
8.0	RED TO WHITE CLAY + QZ	---	494	2						
	+ WEATHERED SCHIST CLASTS.	---								
		---								
10.0	RED / PALE BROWN CLAY + OCC QZ	---	495	2						
	+ V. WEATHERED ROCK FRAGS.	---								
		---								
12.0		---	496	2						
		---								
		---								
14.0	PALE OLIVE GREEN CLAY	---	497	2						
		---								
		---								
16.0		---	498	2						
		---								
		---								
18.0		---	499	2						
		---								
		---								
20.0	GRY-GREEN CLAY + QZ + WEATHERED	---	500	2						
	AMPHIB.	---								
		---								



PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 65

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PAGE 2 OF 2

PROJECT:.....

DATE STARTED:.....

TYPE OF DRILL:.....

AREA:.....

COORDINATES:.....

HOLE SIZE:.....

LOCATION:.....

ELEVATION:.....

CONTRACTOR:.....

STARTED:.....

DEPTH:.....

DRILLER:.....

COMPLETED:.....

LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	Green CLAY + WEATHERED ? Amphib	—	210501	2						
	FRAGS.	—								
		—								
		—								
		—								
24		—	502	2						
		—								
		—								
		—								
		—								
26		—	503	2						
		—								
		—								
		—								
		—								
28		—	504	2						
		—								
		—								
		—								
		—								
29		—	505	1						
		—								
		—								
	END 29. ? AMPHIBOLITE GNEISS	—								
	+ MICACROUS	—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 66  
PAGE 1 OF 2

334

PROJECT: Cummins      DATE STARTED: 2/5/85      TYPE OF DRILL: T3  
AREA: RYRE PENN      COORDINATES: 930      HOLE SIZE: 6"  
LOCATION: TRAP 16      CONTRACTOR: NITSCHKE  
STARTED:      ELEVATION:      DRILLER:      LOGGED BY: DUNN  
COMPLETED:      DEPTH: 26m

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	SILT	---	20506	2						
		---								
		---								
		---								
4	RED BROWN SILT / CLAY	---	507	2						
		---								
		---								
		---								
6	Brown CLAY	---	508	2						
		---								
		---								
		---								
8	RED BROWN CLAY	---	509	2						
		---								
		---								
		---								
10	ORANGE CLAY + WEATHERED B ROCK SILT CRAGS	---	510	2						
		---								
		---								
		---								
12	RED / OR CLAY	---	511	2						
		---								
		---								
		---								
14	RED BROWN + WEATHERED SCHISTOUS ROCK CLAY AMPHIB?	---	512	2						
		---								
		---								
		---								
16		---	513	2						
		---								
		---								
		---								
18		---	515	2						
		---								
		---								
		---								
20	OLIVE GREEN CLAY + AMPHIBOLITE CHIPS.	---	516	2						
		---								
		---								
		---								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	OLIVE GREEN CLAY + AMPHIB CHIPS.	— — — — —	210517	2						
		— — — — —								
		— — — — —								
		— — — — —								
24		— — — — —	518	2						
		— — — — —								
		— — — — —								
		— — — — —								
26		~ ~ ~ ~ ~	519	2						
		~ ~ ~ ~ ~								
		~ ~ ~ ~ ~								
	END 26 AMPHIB SCHIST	~ ~ ~ ~ ~								

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. CUM 67

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PAGE 1 OF 4

PROJECT: Cummins  
AREA: E-IRE PER  
LOCATION: TRAV. 24  
STARTED:  
COMPLETED:

DATE STARTED: 2/5/85  
COORDINATES: 725.  
ELEVATION:  
DEPTH: 75m

TYPE OF DRILL: T3  
HOLE SIZE: 6"  
CONTRACTOR: NCSHKE  
DRILLER:  
LOGGED BY: Jurn

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	CACROTH + SILT	111	210520	2						
		11								
		111								
4	Red Brown SANDY CLAY + FE PISOLITHS		521	2						
6			522	2						
8	Red FERRUG CLAYEY GRAVEL		523	2						
10			524	2						
12	GRY (PINK) CLAY (WEATHERED B'ROCK)		525	2						
14	GRY / ORANGE CLAY + SMALL QTZ + FE WEATHERED ROCK CLASTS (TO 5mm)		526	2						
16	PURPLE / WHITE CLAY		527	2						
18			528	2						
20			529	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. Cum 67

PAGE 2 OF 4

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	GREY / BROWN CLAY. OCC QZ & FR	—	210530	2						
	FRAGS	—								
		—								
		—								
		—								
24		—	531	2						
		—								
		—								
		—								
		—								
26	ORANGE CLAY. RARE FR CLASTS	—	532	2						
		—								
		—								
		—								
		—								
28	WHITE CLAY.	—	533	2						
		—								
		—								
		—								
		—								
30	Pale brown, RED, ORANGE CLAY	—	534	2						
	OCC. FR ROCK	—								
	CLASTS	—								
		—								
		—								
32		—	535	2						
		—								
		—								
		—								
		—								
34		—	536	2						
		—								
		—								
		—								
		—								
36		—	537	2						
		—								
		—								
		—								
		—								
38		—	539	2						
		—								
		—								
		—								
		—								
40		—	540	2						
		—								
		—								
		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... COORDINATES:..... HOLE SIZE:.....  
LOCATION:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
62	PALE GREEN / BROWN CLAY + OCC QTZ	— —	210541	2						
	+ ABUNDANT PALE	— —								
	GRAIN WEATHERED	— —								
	?? ROCK CLASTS ??	— —								
64		— —	542	2						
		— —								
		— —								
		— —								
66	ABUNDANT QTZ	— —	543	2						
	CLASTS + CHIPS	— —								
	OF HARD BOTRYOIDAL	— —								
	WEATHERING PRODUCT	— —								
68		— —	544	2						
		— —								
		— —								
		— —								
50		— —	545	2						
		— —								
		— —								
		— —								
52		— —	546	2						
		— —								
		— —								
		— —								
54		— —	547	2						
		— —								
		— —								
		— —								
56		— —	548	2						
		— —								
		— —								
		— —								
58	DK GREEN CLAY +	— —	549	2						
		— —								
		— —								
		— —								
60		— —	550	2						
		— —								
		— —								
		— —								

PACMINEX PTY. LTD.—FIELD DRILL LOG

339

PROJECT:.....

DATE STARTED:.....

TYPE OF DRILL:.....

AREA:.....

COORDINATES:.....

HOLE SIZE:.....

LOCATION:.....

ELEVATION:.....

CONTRACTOR:.....

STARTED:.....

DEPTH:.....

DRILLER:.....

COMPLETED:.....

LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
62	DR GREEN CRAT + ABUNDANT CLASTS	— —	210551	2						
	DR WEATHERED DR GREEN ROCK	— —								
	? AMPHIBOLITIC SCHIST	— —								
	CHLORITIC?	— —								
64		— —	552	2						
		— —								
		— —								
		— —								
66		— —	553	2						
		— —								
		— —								
		— —								
68		— —	554	2						
		— —								
		— —								
		— —								
70		— —	555	2						
		— —								
		— —								
		— —								
72		— —	556	2						
		— —								
		— —								
		— —								
74		— —	557	2						
		— —								
		— —								
		— —								
	? AMPHIBOLITIC? SCHIST. (INCLUDES BIOTITE)	— —	558	1						
	MAGNETIC.	— —								
	END 75.									

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. Cum 68

PAGE 1 OF 4

PROJECT: Cummins      DATE STARTED: 2.5.85      TYPE OF DRILL: T3  
AREA: GORE PEN      COORDINATES: 825      HOLE SIZE: 6"  
LOCATION: TRAN. 24      ELEVATION:      CONTRACTOR: NISCHKE  
STARTED:      DEPTH: 70 m      DRILLER:      LOGGED BY: Durn

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	SILT (SAND)	---	210559	2						
4	CALCRETS	---	560	2						
	CLAYEY SAND									
6	FERRUG SAND GRAVEL	---	561	2						
	PART FERRICRETED.									
8	V.F. to m. WRACKLY COMBINED SAND	---	562	2						
10	SAND & GRAVEL	---	564	2						
	PURPLE WHITE CLAY									
12	WHITE PALL GRAY OCC ORANGE CLAY	---	565	2						
	W/ RATHERED B. ROCK									
14		---	566	2						
16		---	567	2						
18	GREEN / BROWN CLAY	---	568	2						
20	OR / PURPLE / WHITE CLAY	---	569	2						



PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED: ..... TYPE OF DRILL: .....  
AREA:..... COORDINATES: ..... HOLE SIZE: .....  
LOCATION:..... CONTRACTOR: .....  
STARTED:..... ELEVATION: ..... DRILLER: .....  
COMPLETED:..... DEPTH: ..... LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	Red / ol / purple clay	—	210570	2						
		—								
		—								
		—								
24	Light to dk green clay.	—	571	2						
		—								
		—								
		—								
26		—	572	2						
		—								
		—								
		—								
28	Light Grey <del>green</del> clay	—	573	2						
		botryoidal								
		weathering								
		product.								
30		—	574	2						
		—								
		—								
		—								
32		—	575	2						
		—								
		—								
		—								
34	Grey / green clay	—	576	2						
		—								
		—								
		—								
36		—	577	2						
		—								
		—								
		—								
38		—	578	2						
		—								
		—								
		—								
40		—	579	2						
		—								
		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED: ..... TYPE OF DRILL: .....  
AREA:..... COORDINATES: ..... HOLE SIZE: .....  
LOCATION:..... CONTRACTOR: .....  
STARTED:..... ELEVATION: ..... DRILLER: .....  
COMPLETED:..... DEPTH: ..... LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	GRN GRN CLAY + ? SILICEOUS BOTRYOIDAL	— — —	210580	2						
	WEATHERING PROD	— — —								
		— — —								
		— — —								
44		— — —	581	2						
		— — —								
		— — —								
		— — —								
46		— — —	582	2						
		— — —								
		— — —								
		— — —								
48		— — —	583	2						
		— — —								
		— — —								
		— — —								
50	MOTTLED GREEN, GREY, WHITE, BLUE GREY	— — —	585	2						
	GRITTY CLAY.	— — —								
		— — —								
		— — —								
52		— — —	586	2						
		— — —								
		— — —								
		— — —								
54		— — —	587	2						
		— — —								
		— — —								
		— — —								
56		— — —	588	2						
		— — —								
		— — —								
		— — —								
58		— — —	589	2						
	+ WEATHERED	— — —								
	? AMPHIB CLASTS	— — —								
		— — —								
60		— — —	590	2						
		— — —								
		— — —								
		— — —								

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[illegible]CSR/0035

PACMINEX PTY. LTD.—FIELD DRILL LOG

PROJECT: Cummins

DATE STARTED: 2.5.85

TYPE OF DRILL: T3

AREA: R-IRE Plan

COORDINATES: 1130

HOLE SIZE: 6"

LOCATION: TRAV 24

CONTRACTOR: NITSCHE

STARTED:

ELEVATION:

DRILLER:

COMPLETED:

DEPTH: 50 m

LOGGED BY: Dunn

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	RED SILT		210596	2						
	CALCRETE.									
4	CALCRETE		597	2						
6	CALCRETE		598	2						
	FERRUGINOUS SILT									
8	CALC. FERRUG. SILT / CLAY		599	2						
10	WHITE SILT		600	2						
12	WHITE CLAY		601	2						
14	ORANGE / RED SAND/SILT PART FERRUGINOUS		602	2						
16			603	2						
18	WHITE CLAY (WEATHERED) B' ROCK		604	2						
20			605	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

345

PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... COORDINATES:..... HOLE SIZE:.....  
LOCATION:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	YELLOW CLAY. QTZ CLASTS	—	210606	2						
	BUFF	—								
		—								
		—								
24		—	607	2						
		—								
		—								
		—								
26		—	608	2						
		—								
		—								
		—								
28		—	609	2						
		—								
		—								
		—								
30	YELLOW / ORANGE CLAY	—	610	2						
		—								
		—								
		—								
32		—	611	2						
		—								
		—								
		—								
34		—	612	2						
		—								
		—								
		—								
36		—	613	2						
		—								
		—								
		—								
38	GREEN BROWN CLAY QTZ CLASTS + occ.	—	614	2						
	SCHISTOSE	—								
	CLAST	—								
		—								
40		—	615	2						
		—								
		—								
		—								

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HOLE No. Cum 69

PAGE 3 OF 3

PROJECT:.....	DATE STARTED: .....	TYPE OF DRILL: .....
AREA:.....	COORDINATES: .....	HOLE SIZE: .....
LOCATION:.....		CONTRACTOR: .....
STARTED:.....	ELEVATION:.....	DRILLER: .....
COMPLETED:.....	DEPTH: .....	LOGGED BY: .....


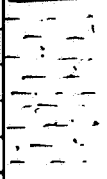
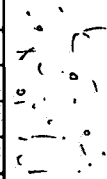
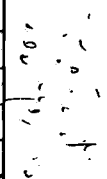
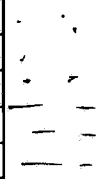
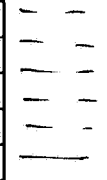
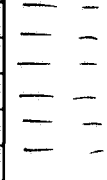


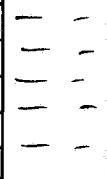
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PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 70  
PAGE 1 OF 4

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PROJECT: Cummins      DATE STARTED: 2.5.85      TYPE OF DRILL: T3  
AREA: EIRE PEN.      COORDINATES: 625      HOLE SIZE: 6"  
LOCATION: TRAV 24      CONTRACTOR: MITCHELL  
STARTED:      ELEVATION:      DRILLER:       
COMPLETED:      DEPTH: 68m      LOGGED BY: Dunn

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	SILT		210622	2						
	CHALK/CLAY									
4	SILT/CLAY		623	2						
	+FE GRANULES									
6	FERRUGINOUS CLAY/CLAY GRAVEL		624	2						
8			625	2						
10	CLAYEY		626	2						
	RED FE SAND/GRANULE									
	PINK/WHITE CLAY									
12			627	2						
14			628	2						
16			629	2						
18			630	2						
20	WHITE CLAY		631	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION: .....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	Buff clay. occ qtz clasts	—	210632	2						
		—								
		—								
		—								
24		—	633	2						
		—								
		—								
		—								
26		—	634	2						
		—								
		—								
		—								
28		—	635	2						
		—								
		—								
		—								
30		—	636	2						
		—								
		—								
		—								
32		—	637	2						
		—								
		—								
		—								
34		—	638	2						
		—								
		—								
		—								
36		—	639	2						
		—								
		—								
		—								
38		—	640	2						
		—								
		—								
		—								
40		—	642	2						
		—								
		—								
		—								



PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT: DATE STARTED: TYPE OF DRILL: AREA: COORDINATES: HOLE SIZE: LOCATION: CONTRACTOR: STARTED: ELEVATION: DRILLER: COMPLETED: DEPTH: LOGGED BY:

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS					
42	ORANGE / BROWN CLAY	210641	2						
44	GREEN BROWN CLAY	644	2						
46	PALE OLIVE GREEN CLAY + NODULES ? SILICEOUS WEATHERING PROD.	645	2						
48		646	2						
50	DK GREEN CLAY	647	2						
52		648	2						
54		649	2						
56		650	2						
58	GRAY DK GREEN CLAY + DK GREEN WEATHERED ROCK CLASTS	651	2						
60		652	2						

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PAGE 4 OF 4

PROJECT:.....	DATE STARTED: .....	TYPE OF DRILL: .....
AREA:.....	COORDINATES: .....	HOLE SIZE: .....
LOCATION:.....		CONTRACTOR: .....
STARTED:.....	ELEVATION:.....	DRILLER: .....
COMPLETED: .....	DEPTH: .....	LOGGED BY: .....

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

351

PROJECT: Cummins

AREA: EYRE PENIN

LOCATION: TRAV 24

STARTED:

COMPLETED:

DATE STARTED: 3.5.85

COORDINATES: 525

ELEVATION:

DEPTH: 47 m

TYPE OF DRILL: T3

HOLE SIZE: 6"

CONTRACTOR: MITCHELLS

DRILLER:

LOGGED BY: Dunn

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	CRACK	1 1 1	210657	2						
	SILT/CLAY	1 1 1								
4	SILT/CLAY		658	2						
6	FINE CLAY/GRANUL		659	2						
8	+ SILT		660	2						
10	LIGHT BROWN SILT/CLAY (WEATHERED)		661	2						
	PURPLE B'ROCK									
12	WHITE CLAY + (WEATHERED) B'ROCK		662	2						
14	RED ORANGE CLAY + ABUNDANT SLIGHTLY		663	2						
	FEARFUL (WEATHERED) B'ROCK									
	CLASTS.									
16			664	2						
18	RED/ORANGE CLAY		666	2						
20	ORANGE CLAY + "BRIGHT" LIGHT GREEN		667	2						
	WEATHERED B'ROCK CLASTS.									

PACMINEX PTY. LTD.—FIELD DRILL LOG

352

PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....HOLE SIZE:.....

LOCATION:.....COORDINATES:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	Buff CLAY + BRIGHT LIGHT GREEN CLASTS	— —	210668	2						
	(+ OCC QTZ)	— —								
		— —								
		— —								
24		— —	669	2						
	+ MODULAR FG CLASTS + OCC	— —								
	QTZ	— —								
		— —								
26		— —	670	2						
		— —								
		— —								
		— —								
28		— —	671	2						
		— —								
		— —								
		— —								
30		— —	672	2						
		— —								
		— —								
		— —								
32		— —	673	2						
		— —								
		— —								
		— —								
34		— —	674	2						
		— —								
		— —								
		— —								
36		— —	675	2						
		— —								
		— —								
		— —								
38	+ ABUNDANT PINK	— —	676	2						
	GREEN WEATHERED ROCK	— —								
	CLASTS + OCC FG + QTZ	— —								
	CLASTS	— —								
40		— —	677	2						
		— —								
		— —								
		— —								

## 353

PROJECT:.....	DATE STARTED: .....	TYPE OF DRILL: .....
AREA:.....	COORDINATES: .....	HOLE SIZE: .....
LOCATION:.....	CONTRACTOR: .....	
STARTED:.....	ELEVATION:.....	DRILLER: .....
COMPLETED: .....	DEPTH: .....	LOGGED BY: .....

[illegible]

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 72  
PAGE 1 OF 3

354

PROJECT: Cummins      DATE STARTED: 3.5.85      TYPE OF DRILL: T3  
AREA: Fyfe Penn      1900      HOLE SIZE: 6"  
LOCATION: TRAV 19      COORDINATES:      CONTRACTOR: NITSCHKE  
STARTED:      ELEVATION:      DRILLER:       
COMPLETED:      DEPTH: 53 m      LOGGED BY: Dunn

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	(ALC) SILT + CMC SILT	---	210682	2						
		---								
		---								
		---								
4		---	683	2						
		---								
		---								
		---								
6	PALE RED SILT	---	685	2						
		---								
		---								
		---								
8		---	686	2						
		---								
		---								
		---								
10	DK. RED V. FERRUG. SILT + ANG QZ	---	687	2						
	GRAVEL	---								
		---								
		---								
12	WHITE CLAY WEATHERED BLACK	---	688	2						
	+ ANG QZ CLAYS	---								
		---								
		---								
14		---	689	2						
		---								
		---								
		---								
16		---	690	2						
		---								
		---								
		---								
18		---	691	2						
		---								
		---								
		---								
20		---	692	2						
		---								
		---								
		---								

PACMINEX PTY. LTD.—FIELD DRILL LOG

355

PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	WHITE + BUFF CLAY + ANG QTZ	---	20693	2						
	CLASTS	---								
		---								
		---								
24		---	694	2						
		---								
		---								
		---								
26	WHITE CLAY	---	695	2						
		---								
		---								
		---								
28		---	696	2						
		---								
		---								
		---								
30	BUFF CLAY	---	697	2						
		---								
		---								
		---								
32	ORANGE CLAY + FB CLASTS	---	698	2						
		---								
		---								
		---								
34		---	699	2						
		---								
		---								
		---								
36	BROWN CLAY + QTZ CLASTS	---	700	2						
		---								
		---								
		---								
38		---	701	2						
		---								
		---								
		---								
40		---	702	2						
		---								
		---								
		---								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:.....DATE STARTED:.....TYPE OF DRILL:.....

AREA:.....COORDINATES:.....HOLE SIZE:.....

LOCATION:.....CONTRACTOR:.....

STARTED:.....ELEVATION:.....DRILLER:.....

COMPLETED:.....DEPTH:.....LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	LIGHT BROWN CLAY, RARE FRAGILE, WAXY	—	210703	2						
	SCHISTOSE CLASTS.	—								
		—								
		—								
44		—	704	2						
		—								
		—								
		—								
46		—	705	2						
		—								
		—								
		—								
48		—	706	2						
		—								
		—								
		—								
50	LIGHT BROWN CLAY + LIGHT BRICK GREEN	—	707	2						
	WAXY CLASTS	—								
	+ AC FR SCHISTOSE CLAST	—								
		—								
52		—	708	2						
		—								
		—								
		—								
	HARD ROCK	~	709	1						
	F.G. SCHISTOSE DK. GREEN ? AMPHIBOLITE	~								
	Rock. minor Qtz.	~								
	END 53m ABUNDANT FR (JUST WAXY CLASTS)	~								



PACMINEX PTY. LTD.—FIELD DRILL LOG

357

HOLE No. Cum 73  
PAGE 1 OF 4

PROJECT: Cummins DATE STARTED: 3.5.85 TYPE OF DRILL: T3  
AREA: EURE PARR. 1800 HOLE SIZE: 6"  
LOCATION: TRAV 19 COORDINATES: OFFSET 15m S. (POWELL LINKS) CONTRACTOR: NITSCHKE  
STARTED: ELEVATION: 75m DRILLER:  
COMPLETED: DEPTH: 75m LOGGED BY: J. W. W.

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	CALCAREOUS SILT	1 1 1	210710	2						
		1 1 1								
		1 1 1								
4	BLUE GRAY SILT / CLAY	1 1 1	711	2						
		1 1 1								
		1 1 1								
6	RED SILT / SAND. FE CLASTS.	1 1 1	712	2						
		1 1 1								
		1 1 1								
8	RED BROWN SILT / CLAY. FE CLASTS	1 1 1	713	2						
		1 1 1								
		1 1 1								
10	PINK CLAYEY SAND	1 1 1	714	2						
		1 1 1								
		1 1 1								
12	PERRICERATE. FERRUG. SILT / CLAY	1 1 1	716	2						
		1 1 1								
		1 1 1								
14	FERRUG SILT / CLAY	1 1 1	717	2						
		1 1 1								
		1 1 1								
16	V. PALE GREEN CLAY. (WEATHERED B' ROCK)	1 1 1	718	2						
		1 1 1								
		1 1 1								
18	WHITE CLAY	1 1 1	719	2						
		1 1 1								
		1 1 1								
20		1 1 1	720	2						
		1 1 1								
		1 1 1								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:.....

DATE STARTED: .....

TYPE OF DRILL: .....

AREA:.....

COORDINATES: .....

HOLE SIZE: .....

LOCATION:.....

ELEVATION:.....

CONTRACTOR: .....

STARTED:.....

DEPTH: .....

DRILLER: .....

COMPLETED:.....

LOGGED BY: .....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	WHITE CLAY	—	720	2						
		—								
		—								
		—								
24	WHITE CLAY.	—	722	2						
		—								
		—								
		—								
26	MAUVE CLAY OCC OTZ CLAY	—	723	2						
		—								
		—								
		—								
28		—	724	2						
		—								
		—								
		—								
30		—	725	2						
		—								
		—								
		—								
32		—	726	2						
		—								
		—								
		—								
34		—	727	2						
		—								
		—								
		—								
36		—	728	2						
		—								
		—								
		—								
38	WHITE CLAY	—	729	2						
		—								
		—								
		—								
40		—	730	2						
		—								
		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... COORDINATES:..... HOLE SIZE:.....  
LOCATION:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
42	GRAY / WHITE CLAY. (NO CLASTS)	—	210731	2						
		—								
		—								
		—								
		—								
44	— — —	—	732	2						
		—								
		—								
		—								
		—								
46	— — —	—	733	2						
		—								
		—								
		—								
		—								
48	— — —	—	734	2						
		—								
		—								
		—								
		—								
50	PURPLE Brown CLAY	—	735	2						
		—								
		—								
		—								
		—								
52	— — —	—	736	2						
		—								
		—								
		—								
		—								
54	— — —	—	737	2						
		—								
		—								
		—								
		—								
56	— — —	—	738	2						
		—								
		—								
		—								
		—								
58	— — —	—	739	2						
		—								
		—								
		—								
		—								
60	— — —	—	740	2						
		—								
		—								
		—								
		—								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... COORDINATES:..... HOLE SIZE:.....  
LOCATION:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
62	PURPLE / WHITE CLAY (BECOMING HARDER)	— —	210742	2						
	(NO CLASTS)	— —								
		— —								
		— —								
64		— —	743	2						
		— —								
		— —								
		— —								
66		— —	744	2						
		— —								
		— —								
		— —								
68	GREY GREEN CLAY	— —	745	2						
		— —								
		— —								
		— —								
70		— —	746	2						
		— —								
		— —								
		— —								
72		— —	747	2						
		— —								
		— —								
		— —								
74	GRAY BROWN CLAY + GREEN ROCK FRAGS.	— —	748	2						
		— —								
		— —								
		— —								
75	DK GREEN F.G. ? AMPHIBOLITE ROCK.	— —	749	1						
	MINOR ? GNEISSIC FB FRAGS	— —								
		— —								
	END 75m	— —								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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HOLE No. Cum 74  
PAGE 1 OF 1

PROJECT: Cummins

AREA: E-1 RE PEN

LOCATION: TRAV. 16

STARTED:

COMPLETED:

DATE STARTED: 3.5.85

COORDINATES: 1400

ELEVATION:

DEPTH: 18m

TYPE OF DRILL: 73

HOLE SIZE: 6"

CONTRACTOR: NITSHKE

DRILLER:

LOGGED BY: Dunn

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
20	fine dk red clayey sand	---	750	2						
		---								
		---								
4	grey clay + fr frags	---	751	2						
		---								
		---								
6	grey clay, micaceous.	---	752	2						
		---								
		---								
8	brown clay + abundant fr frags	---	753	2						
		---								
		---								
10		---	754	2						
		---								
		---								
12	brown / grey clay + Qtz mica siltst (micaceous frags)	---	755	2						
		---								
		---								
14		---	756	2						
		---								
		---								
16		---	757	2						
		---								
		---								
18	END 18m Qtz, musc. Gnlst	---	758	2						
		---								
		---								

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TYPE OF DRILL: T3

HOLE SIZE: ..... 6" .....

CONTRACTOR: NITSCHKE

**DRILLER:** .....

LOGGED BY: .....Dunn

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	SILT / CLAY + 2 WEATHERED ROCK	---	210759	2						
		---								
		---								
4	ANG. QTZ FR RESIDUAL GRAVEL	---	760	2						
		---								
		---								
6		---	761	2						
		---								
		---								
8	BLUE-GREEN / BROWN CLAY + COARSE PE + QTZ CLASTS	---	762	2						
		---								
		---								
10	PURPLE / GRAY / GREEN WEATHERED SCHISTOSE ROCK. Some QTZ.	---	763	2						
		---								
		---								
12	GREEN PURPLE WEATHERED SCHISTOSE ROCK. Some QTZ.	---	765	2						
		---								
		---								
14	? CHLORITIC MICACEROUS SCHIST.	---	766	2						
		---								
		---								
	END 14m	---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								

HOLE No. Cum 76

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PAGE 1 OF 1

DATE STARTED: 4.5.85

TYPE OF DRILL: 73

1800

HOLE SIZE: 6<sup>1/2</sup>

COORDINATES:

CONTRACTOR: NITSHKE

STARTED:.....

ELEVATION:.....

DRILLER: .....

COMPLETED: .....

DEPTH: ..... 1 m

LOGGED BY: Dunn

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	FINES TO COARSE SAND	1	210767	2						
4	FINE GRAIN SILT / SAND	2	768	2						
6	WEATHERED GRAN ? SCHISTOSE ROCK CHIPS	3	769	2						
8	PAGE OLIVE GREEN CLAY + OR FE CLASTS	4	770	2						
10	BROWN SILT / CLAY + ABUNDANT SLIGHTLY WEATHERED SCHIST FRAGS	5	771	2						
12	POSS. GRANITE BIF OR AMPHIBOLITE	6	772	1						
	END 12m									
		7								
		8								
		9								
		10								
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								
		19								
		20								
		21								
		22								
		23								
		24								

R/0035

PACMINEX PTY. LTD. - FIELD DRILL LOG

HOLE No. Cum 77  
PAGE 1 OF 2

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PROJECT: Cummins DATE STARTED: 2.5.85 TYPE OF DRILL: T3  
AREA: BORE PIONEER COORDINATES: 1700 HOLE SIZE: 6"  
LOCATION: TRAVIS 1700 CONTRACTOR: NICHKE  
STARTED: ELEVATION: DRILLER:  
COMPLETED: DEPTH: 38m LOGGED BY: Dunn.

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	ROAD FILL		773	2						
4	CALCRETE	111	774	2						
		11								
		111								
		11								
6	WHITE CLAY (WEATHERED V. MICACHOUS ?SCHIST)	- -	775	2						
		- -								
		- -								
		- -								
8		- -	776	2						
		- -								
		- -								
		- -								
10		- -	777	2						
		- -								
		- -								
		- -								
12		- -	778	2						
		- -								
		- -								
		- -								
14		- -	779	2						
		- -								
		- -								
		- -								
16	DK GRAIN CLAY - V. MICACHOUS + FINE QTZ + MICA CLASTS	- -	780	2						
		- -								
		- -								
		- -								
18		- -	782	2						
		- -								
		- -								
		- -								
20		- -	783	2						
		- -								
		- -								
		- -								



PACMINEX PTY. LTD.—FIELD DRILL LOG

365

PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... COORDINATES:..... HOLE SIZE:.....  
LOCATION:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	DK	—	210784	2						
	GREEN CLAY + FINE QTZ + musc.	—								
	FAAB	—								
		—								
24		—	285	2						
		—								
		—								
		—								
26	OR / BROWN CLAY	—	786	2						
		—								
		—								
		—								
28		—	787	2						
		—								
		—								
		—								
30		—	788	2						
		—								
		—								
		—								
32		—	789	2						
		—								
		—								
		—								
34		—	790	2						
		—								
		—								
		—								
36	GREEN	—	791	2						
	+ ROCK FRAGS.	—								
		—								
		—								
38	QTZ BI AMPHIB SCHIST ?	~	792	2						
	END 38	~								
		~								
		~								

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 78  
PAGE 1 OF 2

366

PROJECT: Cummins      DATE STARTED: 4.5.85      TYPE OF DRILL: T3  
AREA: EARS PANN.      HOLE SIZE: 6"      CONTRACTOR: NISCHKA  
LOCATION: TRAVIS      COORDINATES:      DRILLER:      LOGGED BY: Durr  
STARTED:      ELEVATION:      DEPTH: 27 m

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2	CLAY + CALCARETE	1 1	210793	2						
		( 1 )								
		( 1 )								
		— —								
4	RED / ORANGE FERRUG SILT.	— —	794	2						
		— —								
		— —								
		— —								
6	HARD PURPLE CLAY	— —	795	2						
		— —								
		— —								
		— —								
8	WHITE CLAY.	— —	796	2						
		— —								
		— —								
		— —								
10	GRAY ORANGE CLAY	— —	797	2						
		— —								
		— —								
		— —								
12	GREEN CLAY	— —	798	2						
		— —								
		— —								
		— —								
14	PURPLE GREEN GRAY CLAY	— —	799	2						
		— —								
		— —								
		— —								
16	GREEN-BROWN CLAY	— —	800	2						
		— —								
		— —								
		— —								
18	GREY GREEN CLAY + QZ CLASTS	— —	208801	2						
		— —								
		— —								
		— —								
20		— —	208802	2						
		— —								
		— —								
		— —								

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... HOLE SIZE:.....  
LOCATION:..... COORDINATES:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	GREYGRAN CLAY + QZT FRAGS	— —	208803	2						
		— —								
		— —								
		— —								
24		— —	208804	2						
		— —								
		— —								
		— —								
26	BROWN CLAY + SILTY FRAGS	— —	805	2						
		— —								
		— —								
		— —								
	QZT FELD BL. GNEISS	— —	806	1						
	END 27	— —								

PACMINEX PTY. LTD.—FIELD DRILL LOG

HOLE No. Cum 79  
PAGE 1 OF 2

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PROJECT: Cummins  
AREA: FIRE PLANT  
LOCATION: TRAIL 15.  
STARTED:  
COMPLETED:

DATE STARTED: 4.5.85  
COORDINATES: 1600  
ELEVATION:  
DEPTH: 30m

TYPE OF DRILL: TB  
HOLE SIZE: 6"  
CONTRACTOR: MITSCHER  
DRILLER:  
LOGGED BY: Durr

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
2										
	NO SAMPLE									
4										
	CALCRETE / SILT		807	2						
6										
	WHITE CLAY		808	2						
8										
			809	2						
10										
	BROWN CLAY		810	2						
12										
	WHITE CLAY		811	2						
14										
	PURPLE CLAY		812	2						
16										
	BUFF CLAY		814	2						
18										
			815	2						
20										
			816	2						

PACMINEX PTY. LTD.—FIELD DRILL LOG

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PROJECT:..... DATE STARTED:..... TYPE OF DRILL:.....  
AREA:..... COORDINATES:..... HOLE SIZE:.....  
LOCATION:..... CONTRACTOR:.....  
STARTED:..... ELEVATION:..... DRILLER:.....  
COMPLETED:..... DEPTH:..... LOGGED BY:.....

Metres	DESCRIPTION		SAMPLE No.	Assay Length	ASSAYS					
22	OLIVE GR. CLAY + BZZ CLASTS	---	208817	2						
		---								
		---								
		---								
24		---	818	2						
		---								
		---								
		---								
26	BROWN SILT	---	819	2						
		---								
		---								
		---								
28	BROWN SILT + BROWN CHERTY ROCK FRAGS	---	820	2						
		---								
		---								
		---								
30		---	821	2						
		---								
		---								
		---								
32	RED / BROWN CHERTY ROCK - ?BIF? END 32	---	822	2						
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								
		---								

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PAGE ( OF )

TYPE OF DRILL: B

HOLE SIZE: 6

CONTRACTOR: NITSCHE

DRILLER: .....

LOGGED BY: Durr

CSR/0035