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PASMINCO EXPLORATION RL 8809
OCEANA ANNUAL REPORT 1994-95 -
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PASMINCO EXPLORATION

OCEANA RL 8809

ANNUAL REPORT

SEPTEMBER 1994- SEPTEMBER 1995

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BURNIE
October
1995

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217002

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SUMMARY

Exploration completed on the Oceana RL 8809 Joint Venture during the period September 1994 to August 1995 has included mapping and rock chip sampling, ground magnetics, aircore and diamond drilling. This program has focussed on the base metal potential of the Gordon Limestone within both the Austral and Pyramid Valleys.

Grid based aircore drilling and ground magnetics in the Austral Valley delineated a strike parallel anomaly within the centre of the Gordon Limestone. Diamond drill testing of this anomaly located minor siderite-galena-sphalerite mineralisation. The best zone of mineralisation was intersected by hole OP5 at the contact of the Gordon Limestone and the overlying Crotty Quartzite, corresponding to a weak ground magnetic anomaly.

The aircore drilling program also located mineralisation within the puggy weathered limestone which overlies bedrock. Although the aircore drilling technique is inferred to have upgraded samples, a significant resource may exist near surface.

Potential for discovery of a new, moderate tonnage, ore body, near to surface is low due to the small area of Gordon Limestone in outcrop and the high density of drilling. However, a small program of drilling and data reinterpretation is recommended for the coming licence year.

1 INTRODUCTION

Retention Licence 8809 (Oceana) covers 5km², and is located 1km south of Zeehan in western Tasmania (see Figure 1). Title to the tenement is held by Arimco Mining Pty Limited. Pasmauco Australia Ltd hold a Joint Venture agreement with Australian Resources to evaluate the mineral potential of the licence area.

This report covers the period from September 1994 to August 1995. Work conducted during this period included:

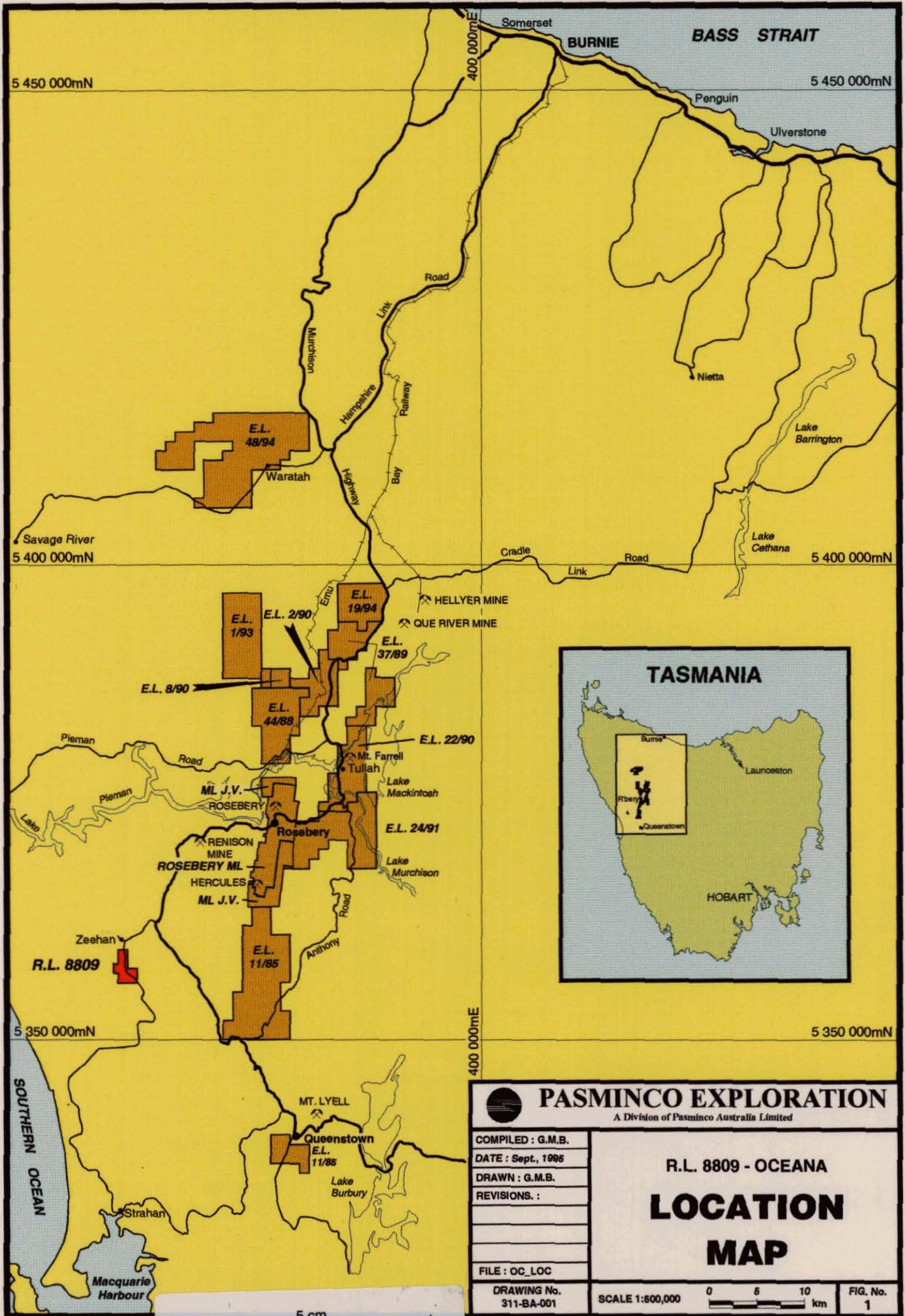
- Mapping and rock chip sampling
- Ground magnetics
- Aircore drilling
- Diamond drilling

Access to the Oceana RL is easily gained by the Zeehan to Strahan road. The Gordon Limestone which hosts mineralisation is deeply weathered and forms a marshy valley between steep ridges of Moina Sandstone and Zeehan Conglomerate to the west, and Crotty Quartzite to the east.

The Oceana orebody is located in the central portion of the RL, and is comprised of two mineralisation styles: a northern crosscutting body, and a southern stratabound lens. The indicated resource for the orebody is:

	tonnes	Pb%	Zn%	Ag g/t
3550-3700GN (crosscutting)	2 297 000	7.1	2.5	48
3350-3440GN (stratabound)	188 000	12.0	4.0	89
TOTAL	2 485 000	7.5	2.6	51

Vegetation cover is sparse, dominated by button grass and banksia on the ridges, button grass and gorse in the marshy valley, and dense tea tree and eucalypt scrub along the creeks.



PASMINCO EXPLORATION
 A Division of Pasmenco Australia Limited

COMPILED : G.M.B.	R.L. 8809 - OCEANA LOCATION MAP
DATE : Sept, 1995	
DRAWN : G.M.B.	
REVISIONS. :	
FILE : OC_LOC	
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	FIG. No. 1

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2 TENURE

Retention Licence 8809 (Oceana) was granted to Cyprus Gold Australia Corporation (Cyprus) on 14 October 1988 for a period of two years. The licence was retained as a result of exploration by Cyprus on Exploration Licence 4/78, which was relinquished on 14 July 1988.

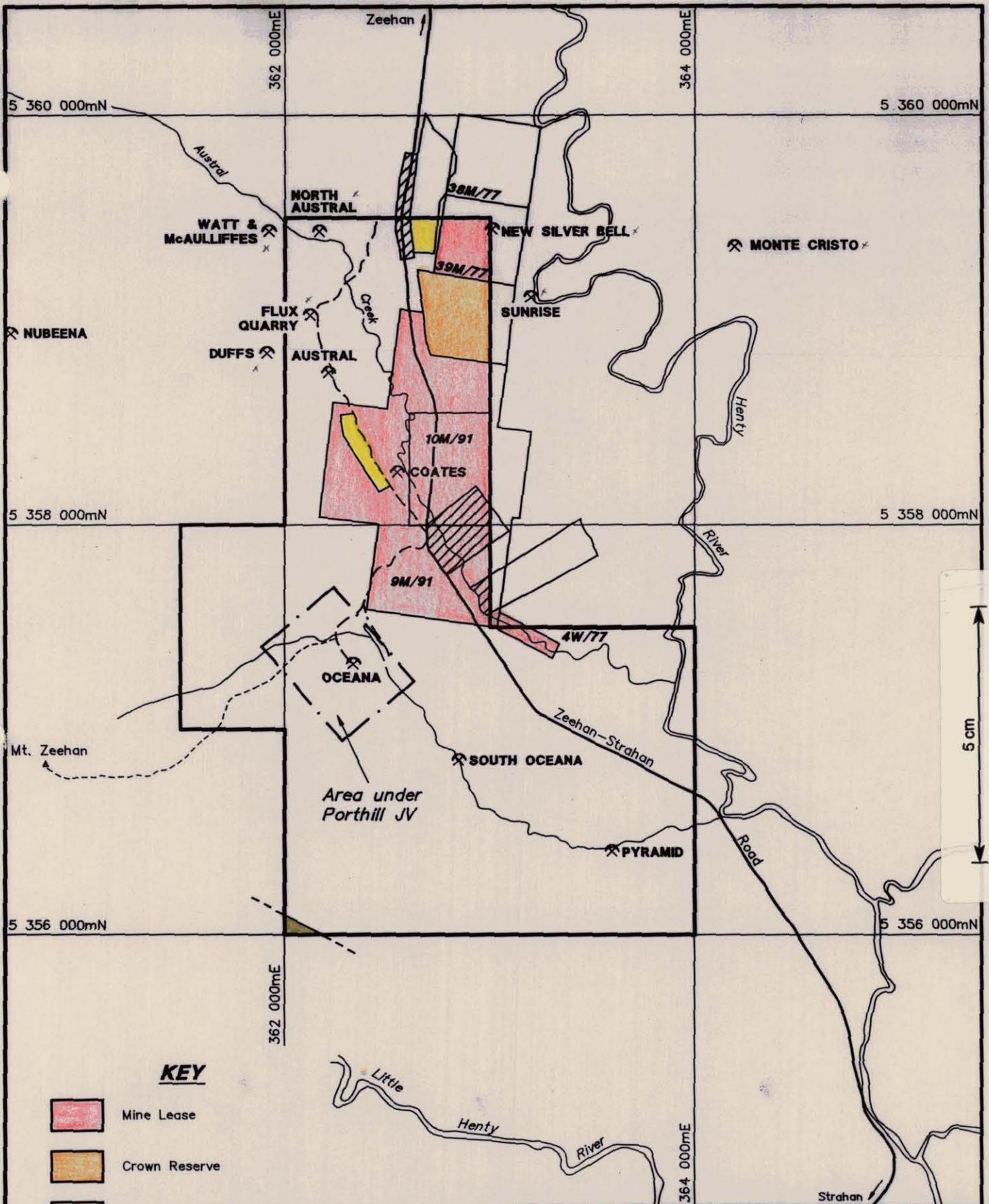
Title to RL 8809 was transferred to Hudspeth and Company Pty. Ltd. on 23 October 1990, and was subsequently transferred to Arimco Mining Pty Limited on 24 August 1991 following a certified change of company name.

Pasminco Australia Limited (Pasminco) entered negotiations with Hudspeth in late 1990 to permit evaluation of the base metal potential of the licence area. A Joint Venture Agreement was ratified on 14 May 1992. Under the terms of the Joint Venture, Pasminco Exploration, a division of Pasminco Australia Limited, would manage and operate the Joint Venture while earning equity. Pasminco have the right to earn a 65% interest in the tenement by spending \$2 million within 9 years, with \$1 million expenditure within the first 5 years.

The licence covers an area of 5.5km² (see Schedule in Appendix 1). This area excludes a total 1.1km² that is enclosed by the Mine Leases: 9M/91, 10M/91 and 4W/77, held by Pasminco Australia Limited, and 39M/77 held by JNR Enraught - Mooney (see Figure 2). Lease 10M/01 is subject to a joint agreement with Dragon Resources whereby they hold the surface rights to retreat the old Zeehan smelter dumps. Also excluded is 0.2km² of Crown Reserves.

A second joint venture was ratified during the licence year between Australian Resources and Mining Company NL, Pasminco Australia Limited and Porthill Resources Limited. This joint venture covers the known mineralisation of the Oceana mine to a depth of 200m, and allows Porthill Resources to earn 51% equity by expenditure of \$1.5 million in assessment of the potential for a shallow (open-cutable) resource.

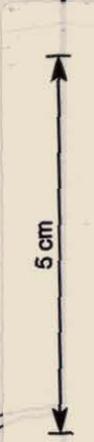
The land tenure of RL 8809 comprises unallocated Crown Land designated as Multiple Use Forest Land and Private Property. In addition, part of the area is on the interim list of the Register of the National Estate as part of the Zeehan Smelters Geological Monuments (see Figure 2).



KEY

-  Mine Lease
-  Crown Reserve
-  Multiple Use Forest
-  Private Freehold Land
-  Unallocated Crown Land (within EL only)
-  National Estate Interim Listing

NOTE :
Land tenure is shown within RL8809 only



 PASMINCO EXPLORATION A Division of Pasminco Australia Limited	
COMPILED : G.M.B. DATE : Sept., 1995 DRAWN : P.G.R. REVISIONS :	217010 R.L. 8809 - OCEANA JV
<h1>LAND TENURE</h1>	
FILE : 25_OCLTN DRAWING No. 311-GN-003	SCALE 1:25,000 
	FIG. No. 2

3 PREVIOUS EXPLORATION & MINING

Comprehensive accounts of past prospecting and mining activities in the Zeehan area including the Oceana RL have been given in Taylor (1983) and Jones (1988). A summary of exploration undertaken by Amoco/Cyprus for the period 1978-88 is provided in Appendix 2.

The earliest report of mining activity at Oceana dates from 1890 when small scale trenching was undertaken. During the following 3 years the Oceana Silver Mining Co. extracted approximately 1000t at 39% Pb and 14.5 oz/t Ag. A further 517t of lead ore was mined between 1896-99 by Oceana Pty Ltd. No further significant production from the Oceana mine occurred until 1954 when Zeehan Mines Pty Ltd (a joint venture between North Broken Hill and Broken Hill South) reopened the old workings, following a successful exploration drilling program. Zeehan Mines extracted a total of 128 177t at 11.6% Pb and 4.79 oz/t Ag up to 1960 when the mine again closed. This phase of activity is summarised by Curtis (1981).

The Cyprus exploration program focussed on carbonate hosted Pb-Zn-Ag mineralisation within EL 4/78. During the 10 years of licence tenure, the area was geologically mapped, sampled using track mounted power auger, extensively costeamed, surveyed with IP, EM, gravity and magnetics, and tested by 25 diamond drill holes for a total of 6690m. Work was completed both by Cyprus/Amoco and EZ following the establishment of a joint venture covering the licence during 1983. Activity within the area covered by RL 8809 was minimal after 1984, as EZ focussed activity on other sections of the licence. Untested potential for Oceana-style mineralisation was recognised over several other prospects, including Oceana South, Austral and Pyramid, where the amount of drilling is low.

From granting of RL 8809 until establishment of the joint venture, Hudspeth did not undertake any significant work, citing the prevailing unfavourable mineral economics associated with the ore resource outlined above. Pasmenco has completed an aeromagnetic survey, ground magnetic and gravity surveys, plus significant aircore and diamond drilling since joint venture inception.

4 GEOLOGY

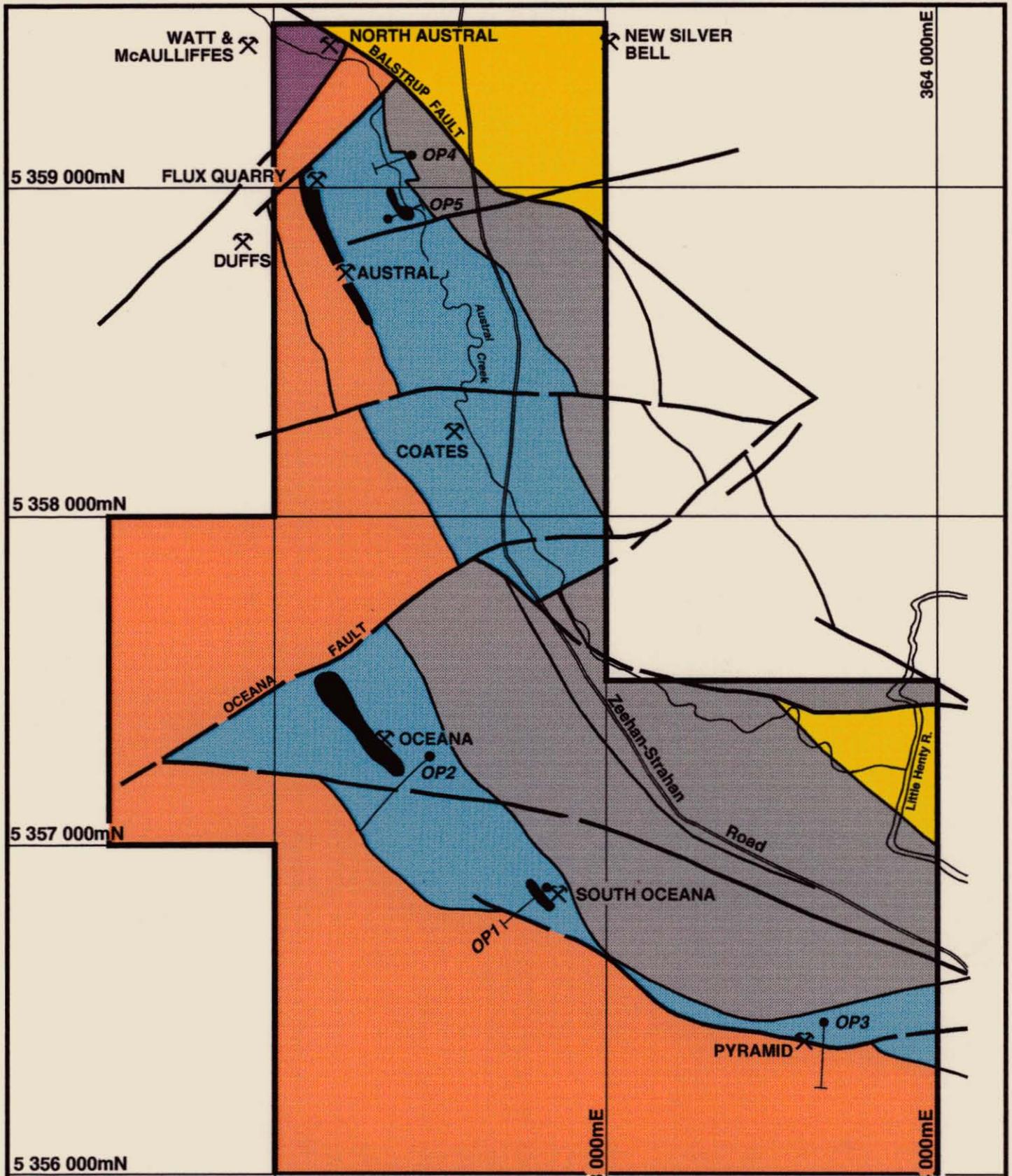
4.1 Regional Geology

The regional geological setting of the Zeehan area is well described in Blissett (1962), Taylor (1983) and Jones (1988).

The Oceana deposit is hosted by the Ordovician Gordon Group, a limestone dominated succession which overlies the Late Cambrian-Ordovician Denison Group, and underlies the Silurian-Devonian Eldon Group (Figure 3). Although Group contacts may be locally disconformable, there do not appear to be major structural breaks through the sequence.

Rock units older than the Denison Group which crop out in the Zeehan area are: the Cambrian Dundas Group, a mixed sedimentary and volcanic sequence; the Eo-Cambrian Crimson Creek Formation of deep marine mudstones, turbidites and volcanoclastics; and Proterozoic Oonah Formation quartzite and shale (Figure 4). To the northwest of the Oceana RL the Devonian Heemskirk Granite crops out. Widespread Sn and Pb-Ag-Zn mineralisation in the Zeehan field is attributed to the intrusion of this body. The Heemskirk Granite is modelled as forming an east-northeast trending ridge in the subsurface (Leaman and Richardson, 1989), and to occur at approximately 2km depth below the Oceana Mine.

The Oonah Formation has recently been interpreted (Findlay and Brown, 1992) as a thin overthrust sheet of possible Tabberaberan age. Thin skinned Devonian thrusting provides the possibility of shallow depth masked mineralisation in a variety of host formations in the Zeehan area.



LEGEND

-  Florence Quartzite Bell Shale
-  Crotty Quartzite, Amber Slate, Keel Quartzite
-  Gordon Limestone
-  Crimson Creek Formation
-  Moina Sandstone, Mt. Zeehan Conglomerate



 PASMINCO EXPLORATION <small>A Division of Pasma Australia Limited</small>	
COMPILED : M.S.S. DATE : Sept., 1995 DRAWN : G.M.B. REF. : FILE : OC_SGEOL	R.L. 8809 - OCEANA SIMPLIFIED GEOLOGY
DRAWING No. 311-GL-045	SCALE 1:1750 
FIG. No. 3	

PERMIAN

SILURIAN / DEVONIAN

ORDOVICIAN

CAMBRIAN

PROTEROZOIC

ELDON GROUP

GORDON GROUP

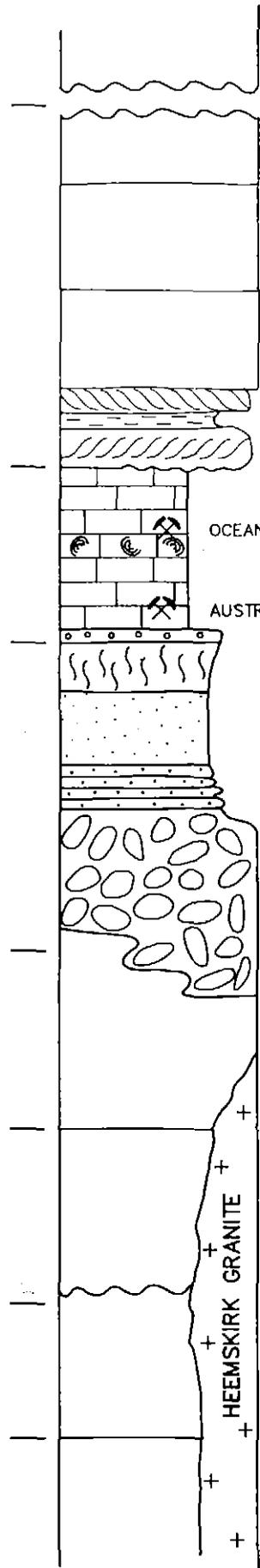
DENISON GROUP

DUNDAS GROUP

CRIMSON CREEK FORMATION

OONAH QUARTZITE

CONCERT SCHIST



~1500m

~500m

OCEANA

AUSTRAL, GRIEVES

(Devonian)

TABBERABBERAN OROGENY
folding and granite intrusive

BELL SHALE

FLORENCE QUARTZITE

AMBER SLATE

CROTTY QUARTZITE

GORDON LIMESTONE

Shallow water low energy to high energy fossiliferous limestone

MOINA SANDSTONE

MT. ZEEHAN CONGLOMERATE

(This contact is a time transgressive response to Tyananland convergence and may be coeval with Dundas Group)

Mixed sedimentary, epiclastic, volcanic sequence

Deep marine mudstones and turbidites

PENGUIN OROGENY

 PASMINCO EXPLORATION <small>A Division of Pasminco Australia Limited</small>		
COMPILED : P.M.Q.	R.L. 8809 - OCEANA STRATIGRAPHIC COLUMN OF GORDON LIMESTONE REGIONAL CONTEXT	
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REFERENCE :		
REVISIONS : M.S.S.		
Modified Sept., 1994		
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DRAWING No. 311-GL-012	SCALE	FIG. No. 4

4.2 Local Geology

Limestone of the Gordon Group is the target sequence within the Oceana RL, and extends from the north to the south of the licence. The Gordon Limestone dips steeply to the east or west, is approximately 350m in thickness, and has been disrupted by a series of northeast-southwest and northwest-southeast trending brittle faults. The largest of these is the Oceana Fault which has produced 700m of apparent dextral offset of the Ordovician sequence. Work by Pasminco shows that the stratigraphic section from the Mt Zeehan Conglomerate through Moina Sandstone to the top of the Gordon Limestone, and possibly including the Crotty Quartzite is conformable. Stratigraphy of the limestone is summarised in Quayle (1993).

The Gordon Limestone at Oceana is reasonably homogeneous throughout, and displays variation in sedimentary facies that indicate cycling of low energy and high energy shallow water environments (Saxon, 1994). All facies were deposited within photic and oxic zones, and typically above storm wave base. Overprint of diagenetic dolomite has resulted in a complex array of textures, due to the overlap of depositional and post-depositional features.

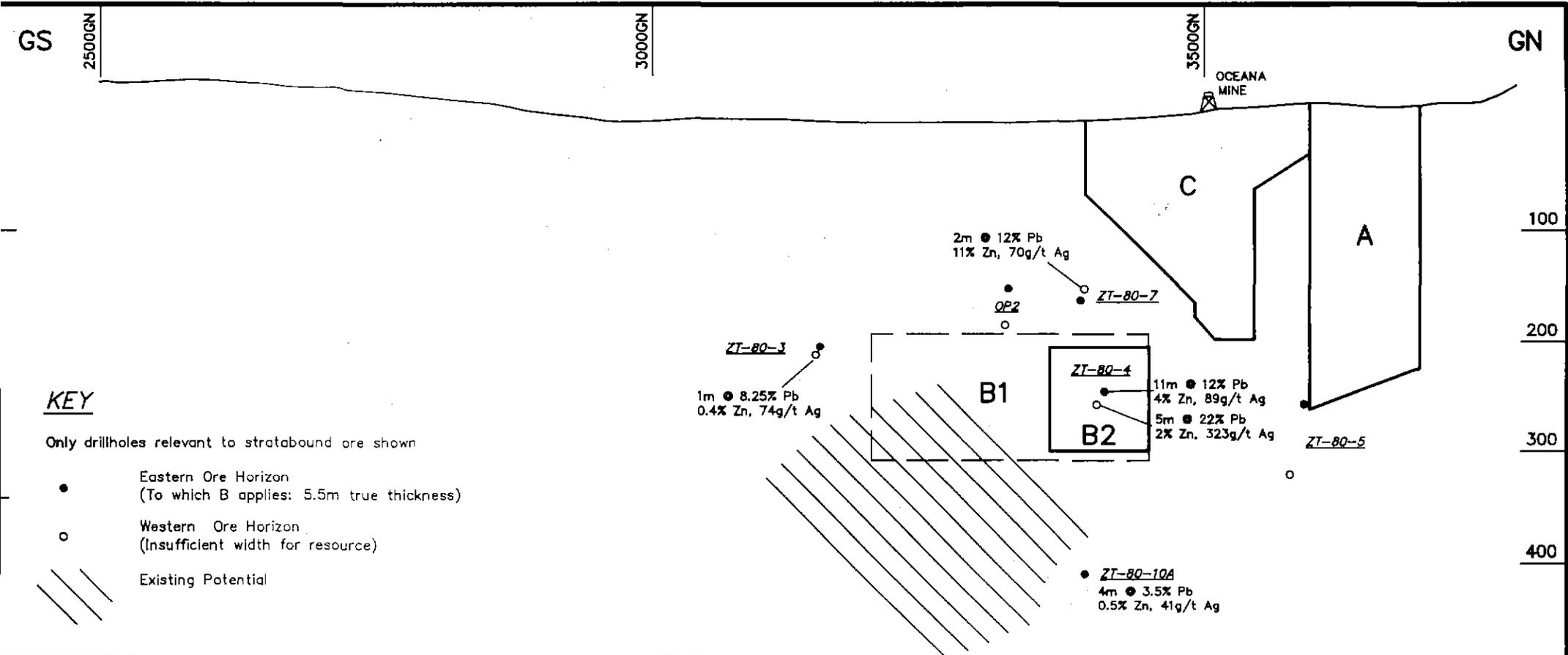
4.3 Mineralisation at Oceana

The Oceana deposit is comprised of two mineralisation styles. The area north of the Mine Fault, adjacent to the Oceana Fault, consists of coarsely crystalline galena-sphalerite mineralisation that crosscuts stratigraphy. South of the mine fault, mineralisation is present as two stratabound ore lenses (Figure 5)

The Oceana deposit has an indicated resource of 2 485 000 tonnes at 7.5% Pb, 2.6% Zn and 51 g/t Ag, comprised of:

	tonnes	Pb%	Zn%	Ag g/t
3550-3700GN (crosscutting lens)	2 297 000	7.1	2.5	48
3350-3440GN (stratabound lens)	188 000	12.0	4.0	89

Gangue to mineralisation is semi-massive siderite-ankerite of mixed replacement and open space fill origin. No evidence exists for sea-floor exhalation as interpreted by Cyprus/EZ. For discussion of ore textures and origin see Saxon (1994).



INFERRED RESOURCE

Using SG = 4 Cut off = 5% Pb + Zn

		tonnes	Pb %	Zn %	Ag g/t
A	CYPRUS 1988	2,297,000	7.1	2.5	48
B1	EZ 1983	750,000	12	4	89
B2	PASMINCO 1994	188,000	12	4	89
	TOTAL (1994)	2,485,000	7.5	2.6	51

C PRODUCTION AND DETAILED PRE-1960 DRILLING

PASMINCO EXPLORATION
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COMPILED : P.M.Q.
DATE : Oct., 1992
DRAWN : G.M.B.
REFERENCE :

REVISIONS : M.S.S.
Modified Sept., 1994
File No:5 RESPOT

RL8809 - OCEANA
LOCATION OF
INFERRED RESOURCE
AND POTENTIAL

DRAWING No.
311-GL-014

SCALE 1:5000

0 100 m

FIG. No.
5

5.1 Mapping and Surface Sampling

Mapping, air photo interpretation, and rock chip sampling was completed within the Austral Valley and the area of the Pyramid workings. An updated interpretive geological map was produced at 1:10,000 (Figure 6). Key changes to interpreted geology include:

- a) Accurate location of the Balstrup Fault in the north of the tenement where Crotty Quartzite is juxtaposed with Florence Quartzite. Aircore drilling (see section 5.6) within the Austral Valley indicated that the Gordon Limestone does not abut the Balstrup Fault on surface. The easterly dip of the Gordon Limestone may produce an intersection at depth.
- b) Discovery of siderite associated with ironstone in the Austral Valley;
- c) Recognition that the Moina Sandstone was thrust northwards along a southwest dipping fault for the length of the Pyramid Valley. The Moina Sandstone therefore masks all but the upper 100m of Gordon Limestone stratigraphy in this area.

Assay results for chip samples taken are reported in Appendix 3 and locations on Figure 7. Best results were from siderite-galena mineralisation located on the Pyramid mine dump (9.32% Pb). Channel sampling was completed across the Balstrup Fault within a road cutting in the Zeehan - Strahan road, however no significant anomalism was identified.

5.2 Definition of Geochemical Alteration Halo at Oceana

Two Oceana diamond drill holes were re-sampled to test for a halo to the stratabound mineralisation and identify trace elements within the ore. No alteration halo is visible in hand specimen adjacent to the ore lens. ZT-80-7 was re-sampled in 1m and 2m intervals from 137m to 197m, and assayed for Cu, Pb, Zn, Ag, Fe, Mn, Co, Ni, Bi, Cd, Mo, V and Mg by AAS, Ba, W and Sn by XRF, As, Hg, Sb, Se and Te by Vapour Hydride (Appendix 4).

The ore zone is anomalous with respect to background for:

Element	x Background	Element	x Background
Cu	25	Pb	2000
Zn	400	Ag	30
Fe	7	Mn	20
Ni	5	Cd	60
Hg	50	Sb	30

A halo about ore was defined by Zn, Pb, Cd, Mn and Hg (Figures 8, 9). Anomalous values and halo extent are:

Element	Anomalous cutoff Value(ppm)	Distance from Ore (true)
Zn	200	12m
Pb	60	9m
Cd	3	8m
Mn	590	6m
Hg	0.03	10m

Elements at the highest level above background within ore produce the most coherent halos within the host rock. Although cut off values for anomalism are low, the combination of elements does provide a strong indicator to Oceana-style ore when proximal. The halo to mineralisation appears near symmetrical for all elements, despite a major contrast with respect to host lithology in the footwall and hangingwall of ore.

Assuming the halo was generated as part of the mineralising event, halo symmetry indicates that the hangingwall to ore was insitu at the time of mineralisation, and that fluid access to the footwall and hangingwall host rock was equivalent. Therefore, depositional porosity had minor influence on fluid flow, and significant destruction of depositional porosity within the Oceana host bioclastic grainstone must have occurred prior to mineralisation.

OP2 which contains no mineralisation was re-sampled in 2m intervals from 165m to 193m, to confirm the halo to ore identified in ZT-80-7 was not a lithological response. The equivalent but unmineralised stratigraphic position was sampled and assayed for Cu, Pb, Zn, Ag, Fe, Mn, Co, Ni, Cd and Mo by AAS (Appendix 4). Applying anomaly cut off values for Zn-Pb-Mn-Cd defined above, one sample anomalous with respect to both Zn and Pb was located (Figure 10, 11). No samples contained anomalous Mn or Cd. Results are consistent with the above halo being associated with mineralisation.

Rare intervals with strongly anomalous Fe-Mn-Co-Ni-Mg-As-Ba-Sb or W were located separate from the ore zone and halo, and may indicate other hydrothermal events effecting the Gordon Group in the Oceana area.

Applicability of the above elements in defining proximity to ore has not been established away from the Oceana deposit.

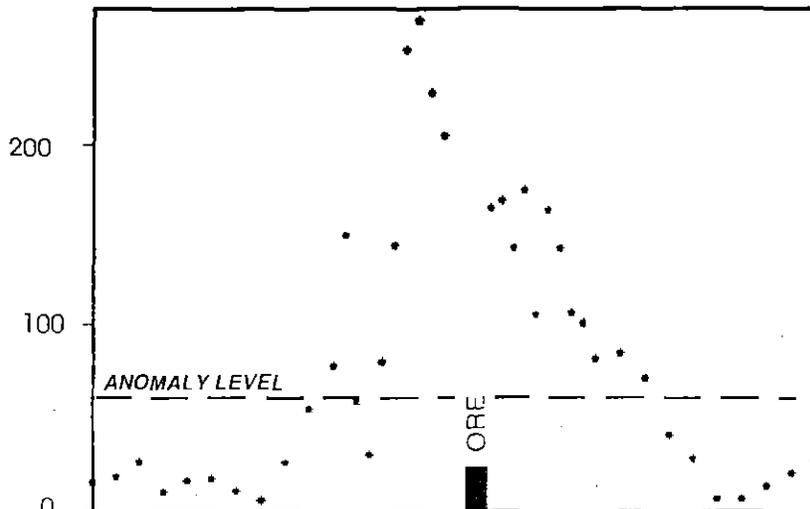
5.3 Relog of Austral Valley Drill Core

Six diamond drill holes from the Austral Valley were re-logged during the licence year, with the aim of characterising the style of Austral mineralisation, determining if further targets remain in the Austral stratigraphic position, and locating Oceana host position. This data has been summarised in figures 12 and 13. Much of the drill core viewed is strongly weathered and in poor condition, particularly about the Gordon Limestone-Moina Sandstone contact.

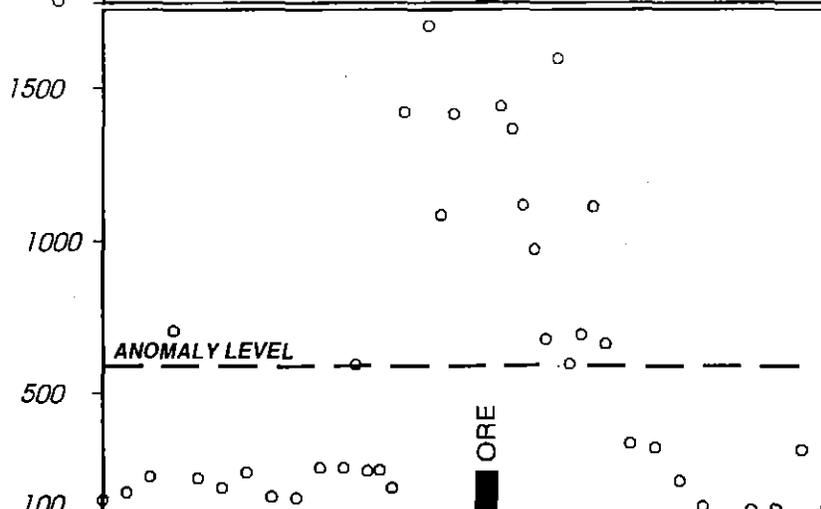
5.3.1 Austral Valley - Sedimentology

The Moina Sandstone is the oldest unit intersected in the Austral Valley, where it is highly quartzose, varying in grainsize from fine sand to occasional conglomerate. Bioturbation is locally intense, particularly adjacent to the contact with the Gordon Group. A gradational contact exists between the Moina Sandstone and the Gordon Group, with quartz sand and gravel lenses extending up to 60m stratigraphically above the basal limestone.

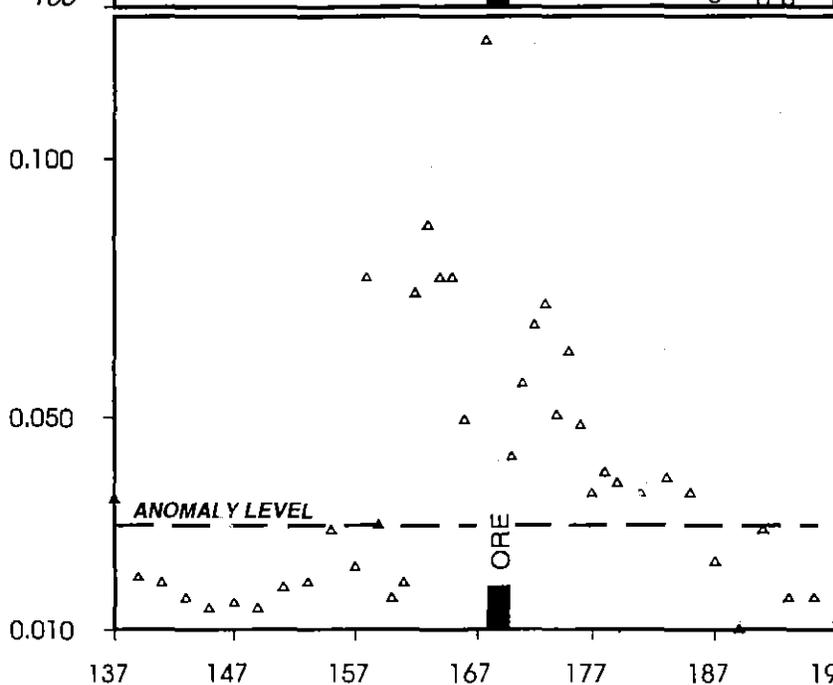
Pb
(ppm)



Mn
(ppm)



Hg
(ppm)

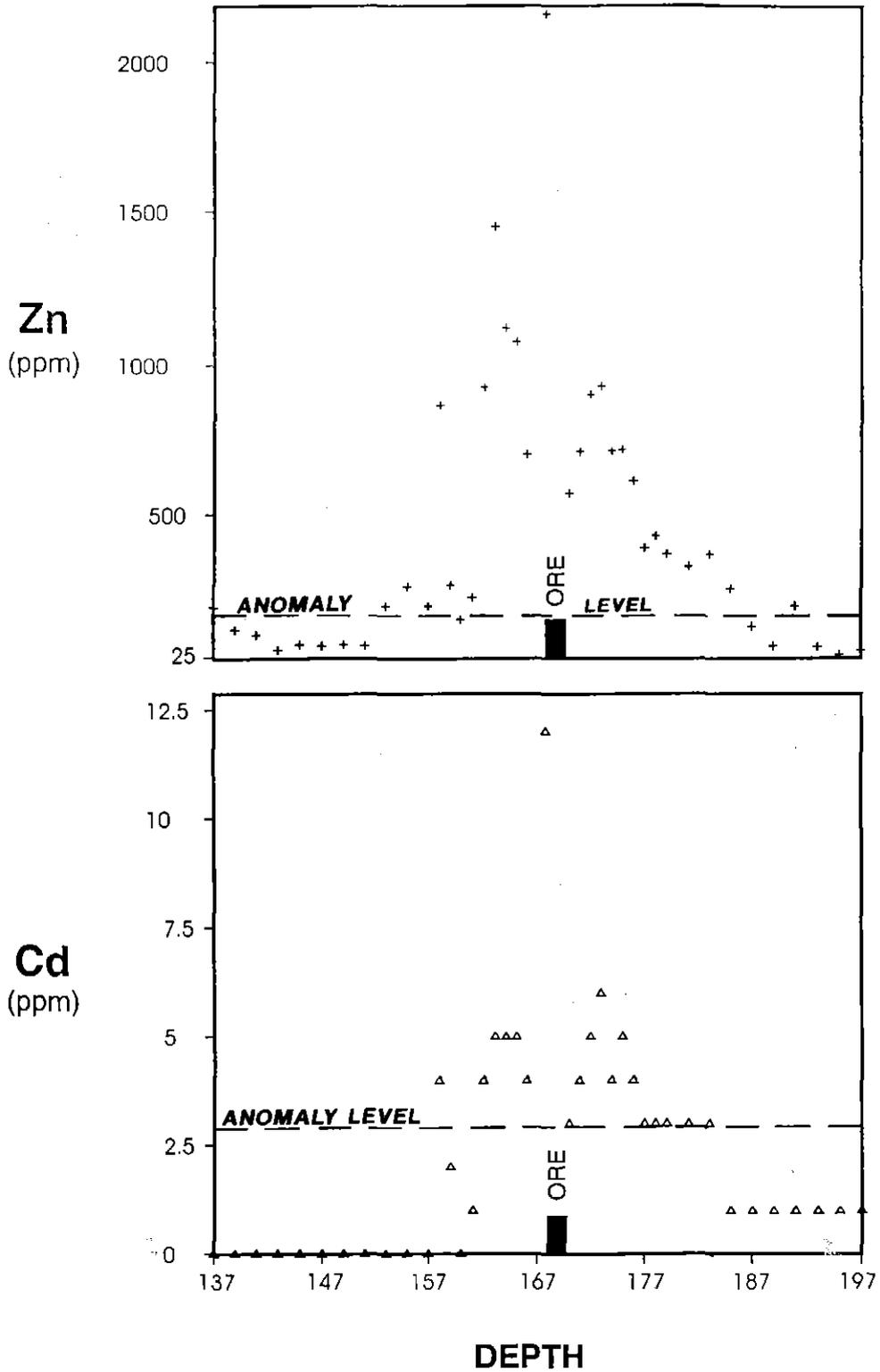


DEPTH

**PASMINCO EXPLORATION
RL8809 - OCEANA
DRILLHOLE ZT-80-7**

GEOCHEMICAL HALO SURROUNDING ORE ZONE

Pb, Mn and Hg

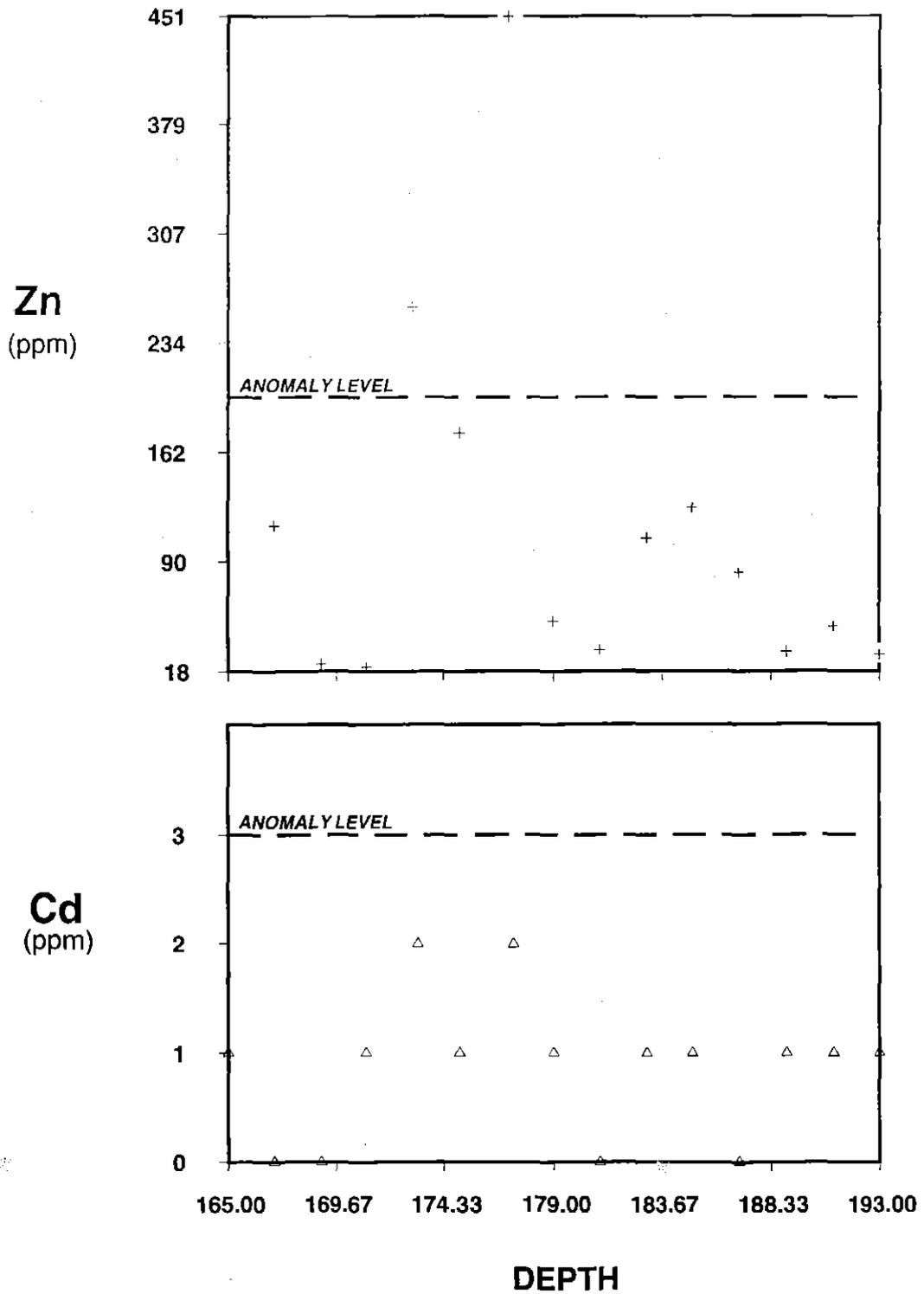


**PASMINCO EXPLORATION
RL8809 - OCEANA
DRILLHOLE ZT-80-7**



GEOCHEMICAL HALO SURROUNDING ORE ZONE

Cd and Zn



**PASMINCO EXPLORATION
RL8809 - OCEANA
DRILLHOLE OP2
GEOCHEMICAL HALO SURROUNDING ORE ZONE
Zn and Cd**

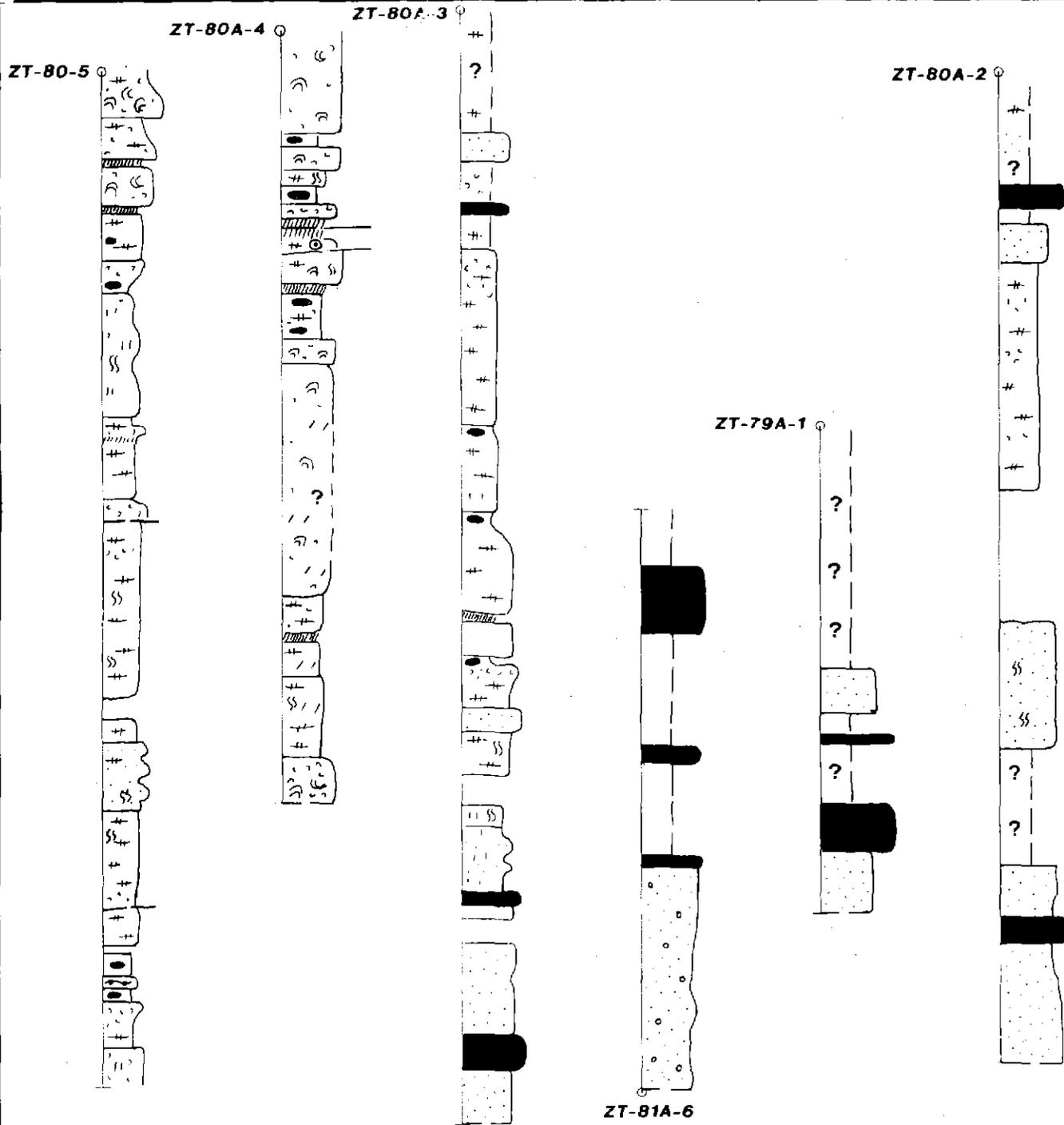
Figure 10

Sedimentary features of the Gordon Limestone in the Austral Valley are similar to those at Oceana. Saxon (1994) discusses environment of deposition of each lithology. The lower most unit of the Gordon Group is dominated by bioturbated micritic limestone and clastic mudstone, with minor nodular limestone and wackestone. Horizons of quartz sand are common. The unit is fossil poor with respect to the overlying sequence, shelly debris typically present as thin re-sedimented storm deposits.

The second unit of the Gordon Group is fossil-rich, with wackestone and grainstone/rudstone dominant. Fossils are typically fragmented and abraded, and locally display oncoidal coating. Coral heads are common, and are occasionally interpreted to be preserved in situ. Clastic mudstone and quartz sand is rare. Although exact correlation is not possible, the grainstone/rudstone component of this unit is identical to the host to stratabound mineralisation at Oceana. Partial to complete dolomite alteration of grainstone/rudstone units is widespread, with unreplaced zones of limestone preserved as pseudoclasts within semi-massive dolomite. Dolomitisation is typically interpreted as a very early phase of alteration, consistently predating stylotisation. Prior to the current licence year, this Oceana-equivalent stratigraphic position had only been intersected in the southern section of the Austral Valley.

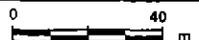
The uppermost unit of the Gordon Group within the Austral Valley, is micrite dominated, and decreases in fossil content up sequence. Wackestone and nodular limestone are both widespread. Pervasive dolomitisation of micrite is common, removing any depositional texture. Minor calcite cemented quartz sand is present.

In faulted contact and overlying the Gordon Limestone is the Crotty Quartzite. The Crotty Quartzite in part underlies the Austral Valley, and crops out in the area of the Zeehan to Strahan Road. The unit is an interbedded sequence of medium grained quartz sandstones, white, coarse-grained quartz-lithic quartzite, and laminated and cleaved khaki siltstone. No limestone has been observed within the base of the Crotty Quartzite.



-  Nodular limestone
-  Finely laminated limestone
-  Limestone (semi massive to massive)
-  Dolomite (semi massive to massive)
-  Interbedded limestone & clastic mudstone
-  Quartz sandstone
-  Original lithology unclear
-  Mineralization (ironstone/sulphide)
-  Oolitic, oncolitic
-  Coarse bioclast rich (>10cm)
-  Bioclast rich
-  Bioturbation
-  Fault
-  Large vein

5 cm

 PASMINCO EXPLORATION <small>A Division of Pasminco Australia Limited</small>			
COMPILED : M.S.S.	R.L. 8809 - OCEANA STRATIGRAPHIC COLUMNS FOR DIAMOND DRILLING WITHIN AUSTAL VALLEY		
DATE : Nov., 1994			
DRAWN : M.S.S.			
REVISIONS :			
FILE :			
DRAWING No. 311-GL-041	SCALE 1:2000		FIG. No. 12

217026

5.3.2 Austral Valley - Mineralisation

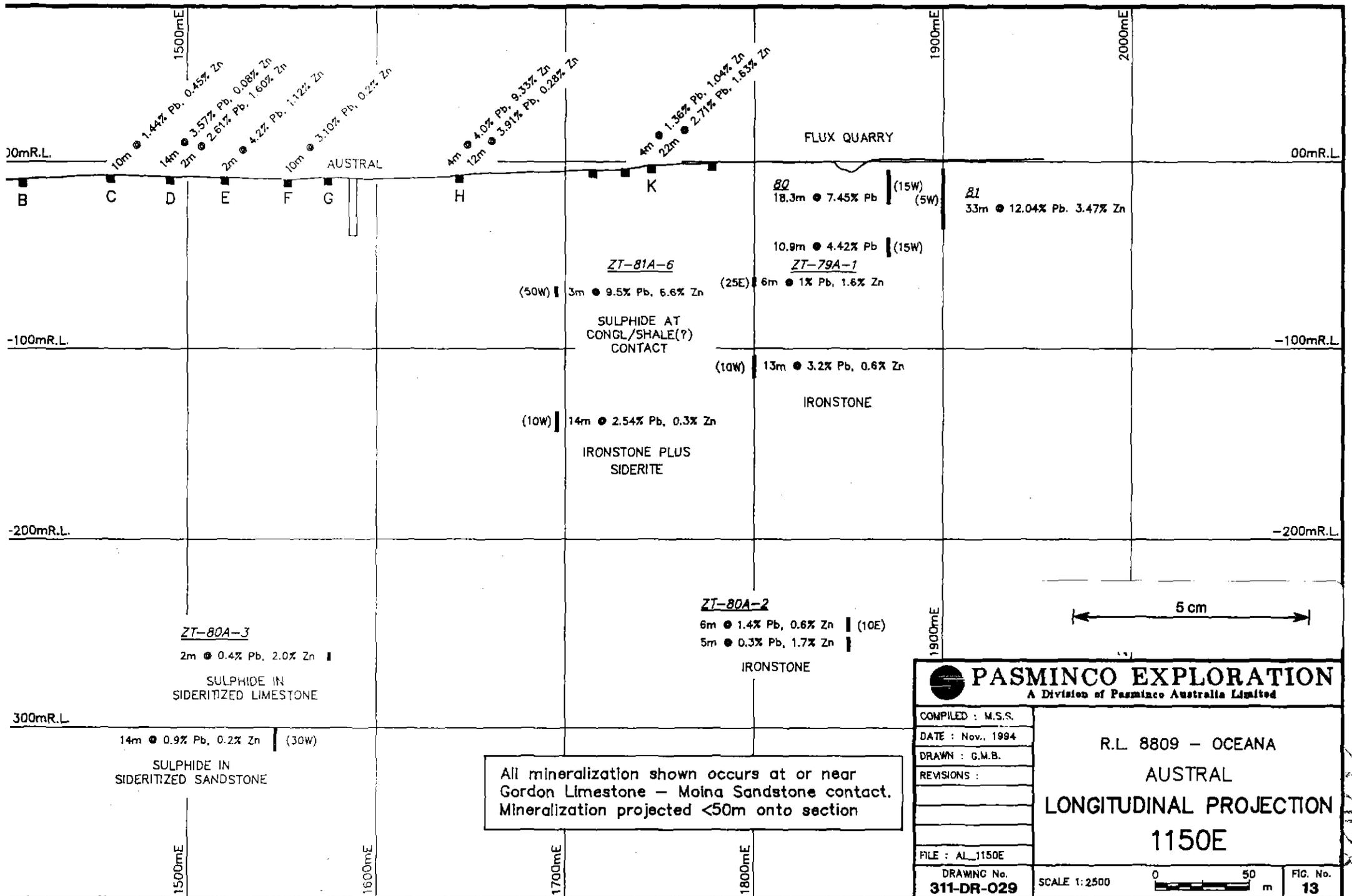
The Austral Mine-Flux Quarry mineralisation was the focus of exploration by Amoco within the Austral Valley. 11 costeans were dug and 4 holes drilled, intersecting anomalous ironstone and base metal sulphide at or near the Moina Sandstone-Gordon Group contact (Figure 13). Where fresh, mineralisation consists of siderite replaced or veined quartz sandstone or limestone, with disseminated or vein galena and sphalerite mineralisation. Mineralisation intersected to date is typically vuggy ironstone with minor preserved siderite, due to weathering to greater than 250m at the Moina Sandstone-Gordon Group contact. Weathering to ironstone appears to have upgraded mineralisation, as near surface intersections and costean mineralisation display significantly higher base metal values than sideritic intervals at depth.

Although the Austral mineralisation remains open along strike and down dip, deep weathering limits the prospectivity of this zone due to unpredictable mineralogy and grade.

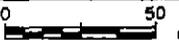
5.4 Gravity and Magnetism Interpretation

Leaman Geophysics was contracted during the licence year to comment on a number of structural problems by reassessing the existing gravity and airborne magnetic data (Appendix 5). Key conclusions drawn by Leaman are:

- the Pyramid Valley Fault extends through to the Pyramid area, and therefore the surface thinning of the limestone is a result of the interplay between dips and faults (confirmed by mapping and drilling);
- the Gordon Group is terminated by a northeast-southwest trending fault in the north of the Austral Valley. Crimson Creek Formation is likely to occur on the north side of this fault (confirmed by drilling);
- both the Balstrup and Tenth Legion Faults are geophysically visible to the north of the Oceana licence;
- there appears to be a relationship between negative gravity anomalies and mineralisation, probably as a result of sulphides promoting acid weathering of the limestone;



All mineralization shown occurs at or near Gordon Limestone - Moina Sandstone contact. Mineralization projected <50m onto section

 PAMINCO EXPLORATION A Division of Paminco Australia Limited	
COMPILED : M.S.S.	R.L. 8809 - OCEANA AUSTRAL LONGITUDINAL PROJECTION 1150E
DATE : Nov., 1994	
DRAWN : G.M.B.	
REVISIONS :	
FILE : AL_1150E	
DRAWING No. 311-DR-029	SCALE 1:2500 
FIG. No. 13	

80214

5.5 Gridding

The Austral Valley grid was refurbished and extended during the licence year. 13.85km of gridding was completed (Figure 14) with minor cutting required in the southern end of the grid area. The grid matches that previously used by Amoco, with the exception that pegging on cross lines is now at 20m intervals. The 1400E baseline remains pegged at 50m intervals, and trends at 340° (AMG).

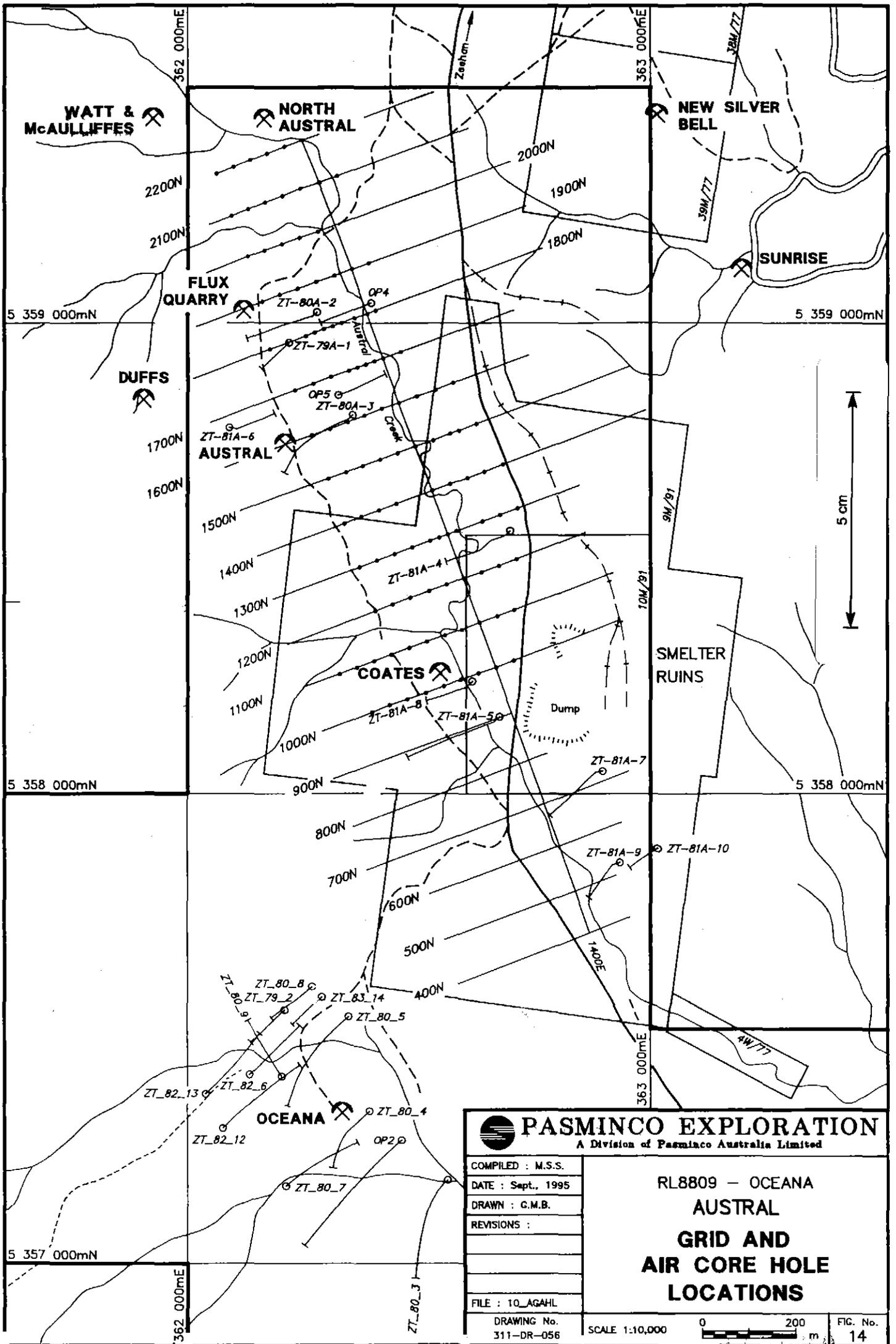
5.6 Ground Magnetism

A ground magnetic survey using a rapid read magnetometer was completed over the Austral Valley grid during December 1994. The survey was designed as a direct indicator of siderite-associated mineralisation, and as a mapping tool within areas of poor outcrop. In particular, the survey aimed to determine if the Gordon Limestone abutted the Balstrup Fault on surface in the North Austral area.

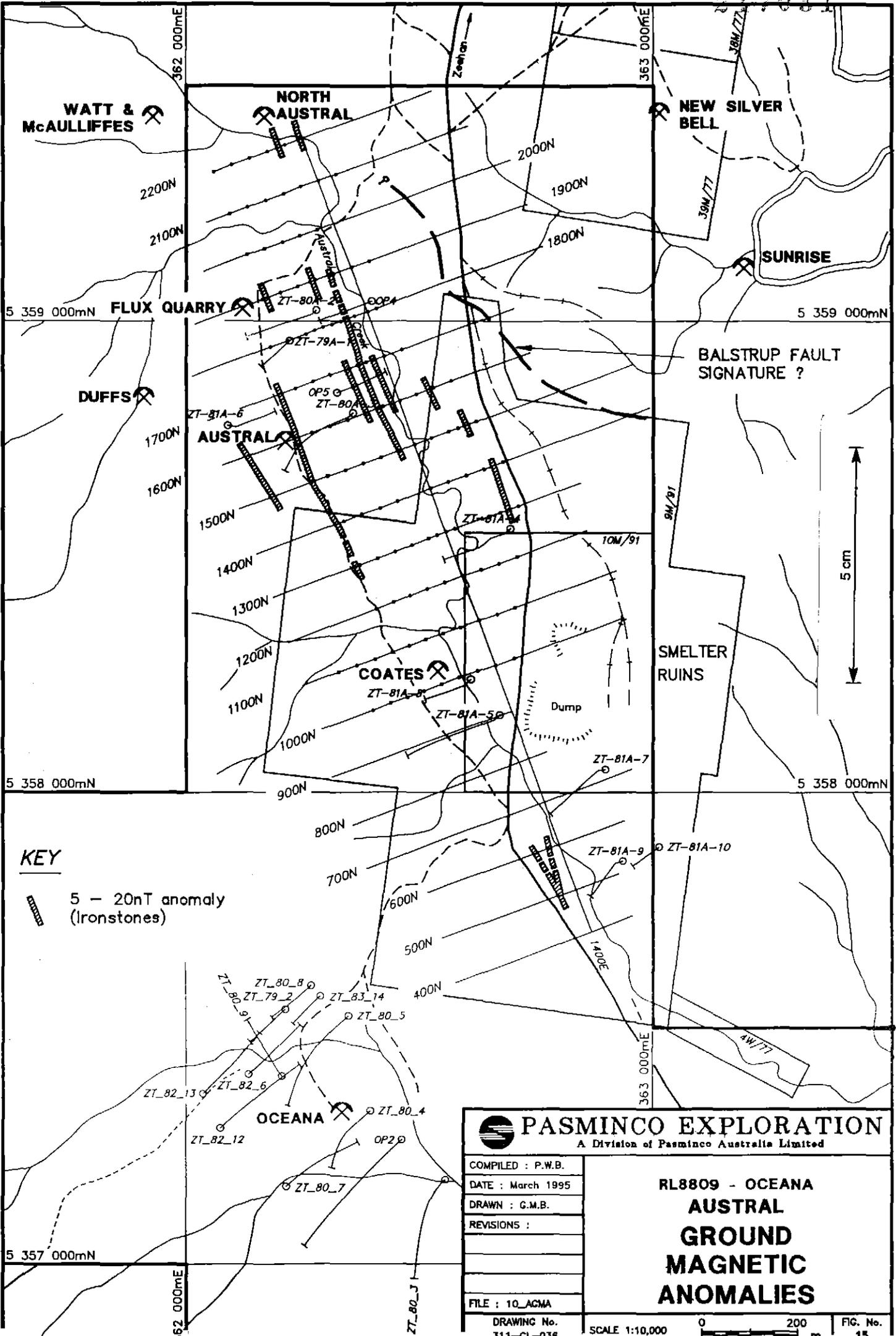
Numerous 10-15nT strike parallel magnetic anomalies were located by the survey (Figure 15), including anomalies that correlate well with known mineralisation at Austral and North Austral. No magnetic signature was identified to indicate truncation of the Gordon Limestone south of the Balstrup Fault, however this truncation was confirmed by subsequent aircore drilling. Survey specifications, raw data and interpretation are provided in Appendix 6.

5.7 Aircore Drilling in Austral Valley

An aircore drilling program was undertaken during February 1995 to test for base metal mineralisation within the Austral Valley. Holes were drilled by Diamond Drilling Tasmania using a track mounted Warman 250 rig. The technique was reasonably successful, however all holes were drilled wet, and despite best efforts, blocking off and potential sample contamination was a problem for much of the survey. The loss of fines as a slurry during wet aircore drilling is assumed to have concentrated mineralisation into the sample. Detergent injection was used for drilling on lines 1800N-2200N, and significantly reduced drilling problems. Sample return varied from nil to good.



 PASMINCO EXPLORATION A Division of Pasminco Australia Limited	
COMPILED : M.S.S. DATE : Sept., 1995 DRAWN : G.M.B. REVISIONS : FILE : 10_AGAHL	RL8809 - OCEANA AUSTRAL GRID AND AIR CORE HOLE LOCATIONS
DRAWING No. 311-DR-056	SCALE 1:10,000 
	FIG. No. 14



KEY

5 - 20nT anomaly (Ironstones)

PASMINCO EXPLORATION
 A Division of Pasminco Australia Limited

COMPILED : P.W.B.
 DATE : March 1995
 DRAWN : G.M.B.
 REVISIONS :

 FILE : 10_ACMA

**RL8809 - OCEANA
 AUSTRAL
 GROUND
 MAGNETIC
 ANOMALIES**

111 holes were drilled for a total of 1550m, holes ranging in depth from 1m to 48m. Holes were drilled to penetration on a 40m x 100m grid, and infilled where mineralisation was intersected. The sequence drilled typically consisted of a thin veneer of glacial or soil cover overlying dark grey, puggy weathered, and competent fresh limestone (for hole logs see Appendix 7). Bulk samples were collected every metre, with 2m composite samples assayed for Zn, Pb, Cu, Ag, Fe and Mn by AAS (Appendix 8). Chip samples were collected for every metre and retained.

5.7.1 Aircore Mineralisation

Numerous holes intersected encouraging Zn-Pb mineralisation. Of 834 samples assayed, the following spread of data was received:

	Zn%	Pb%	Cu(ppm)	Ag(ppm)	Fe%	Mn%
Mean	0.27	0.13	22	2	5.6	0.56
Maximum	16.7	9.8	590	170	37.6	9.5
Minimum	3×10^{-4}	3×10^{-4}	1	0.5	0.25	4×10^{-4}

All results are presented in figure 16, and reported in Appendix 8, and bottom of hole results are presented as figure 17-20.

Aircore drilling indicated mineralisation in both weathered limestone and bedrock. Assay results have been compared using two methods:

- a) Bottom of hole data to compare bedrock signature. Usefulness limited by downhole contamination.
- b) Entire-hole anomalism. All values from each hole used to define an anomalous hole, with 6m @ 1% Pb + Zn applied as cut-off.

Anomaly patterns compare well for both techniques, however the entire-hole method does produce more coherent anomalies, and is favoured as an indicator to bedrock

mineralisation despite highest values sourcing from weathered limestone. Abrupt decay of the entire-hole anomalies and correlation with ground magnetic anomalies, indicate that although base metals may be upgraded by weathering of the limestone, lateral transport of the entire-hole anomalies does not appear to have occurred. Further evidence arises from diamond drill testing, (see section 5.7), which show aircore anomalies to be up dip and upgraded with respect to bedrock mineralisation intersected.

Two strike continuous entire-hole anomalies were defined (Figure 21), a western anomaly corresponding with and immediately east of known mineralisation at Austral, and an eastern anomaly within the centre of the Gordon Limestone in the north of the Austral Valley. The eastern anomaly is strike parallel, is present on four 100m spaced lines, and includes intersections of:

HOLE ID		Pb%	Zn%
OAC19/1320	10m@	0.53	0.64
OAC18/1320	14m@	3.1	4.5
OAC17/1320	14m@	2.2	0.95
OAC16/1320	16m@	0.9	1.95

Bedrock underlying this anomaly had not been drill tested prior to the current licence year.

Anomalous aircore hole were typically ferruginous or sideritic with rare galena mineralisation. No Zn minerals were observed. Aircore drilling is inferred to have upgraded mineralised intersections and it is important to note that high grade intersections corresponded with poor sample recovery. A significant resource may exist within the weathered limestone, however results must be confirmed by a continuous coring technique.



PASMINCO EXPLORATION

A Division of Pasma Australia Limited

COMPILED : M.S.S.

DATE : Sept, 1995

DRAWN : G.M.B.

REVISIONS :

FILE : 5_ABHAAG

DRAWING No.
311-GC-049

RL 8809 - OCEANA
AUSTRAL
AIR CORE DRILLING
BOTTOM OF HOLE ASSAYS
Ag (ppm)

SCALE 1:5000



FIG. No.
17

5 359 500mN

5 359 000mN

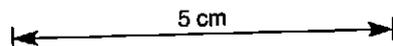
5 358 500mN

362 000mE

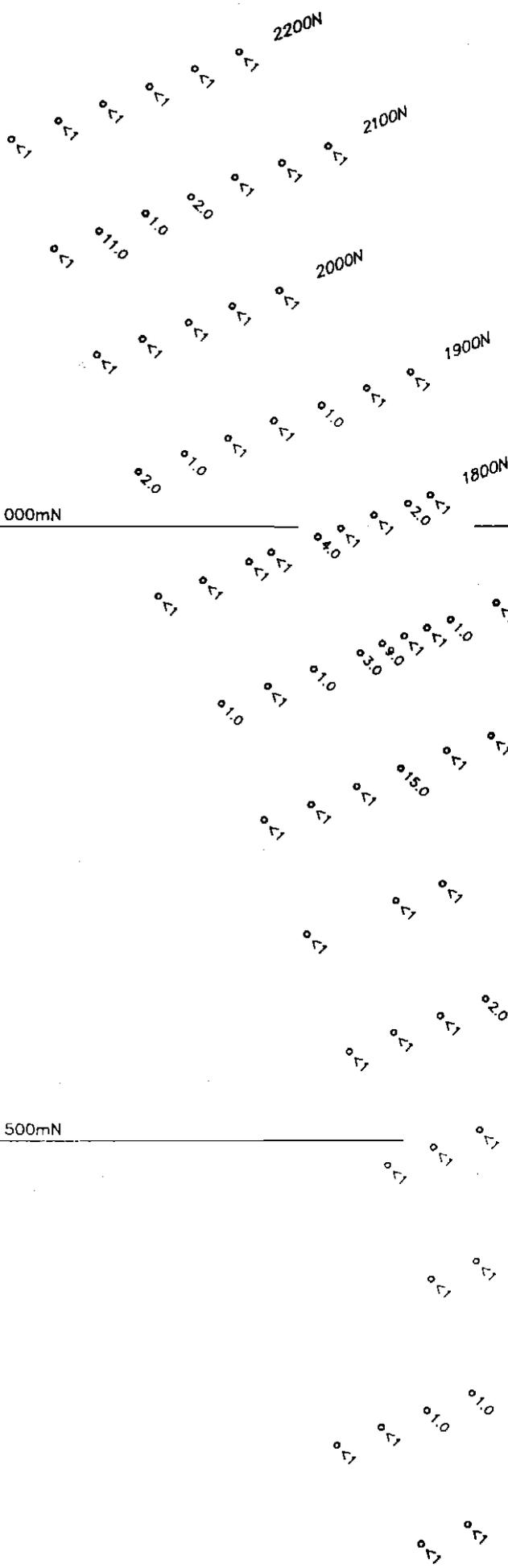
362 500mE

5 359 000mN

5 358 500mN



217034



5 359 500mN
362 000mE

PASMINCO EXPLORATION

A Division of Pasminco Australia Limited

COMPILED : M.S.S.
DATE : Sept., 1995
DRAWN : G.M.B.
REVISIONS :
FILE : 5_ABHAFE

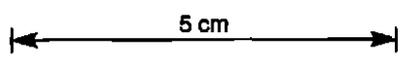
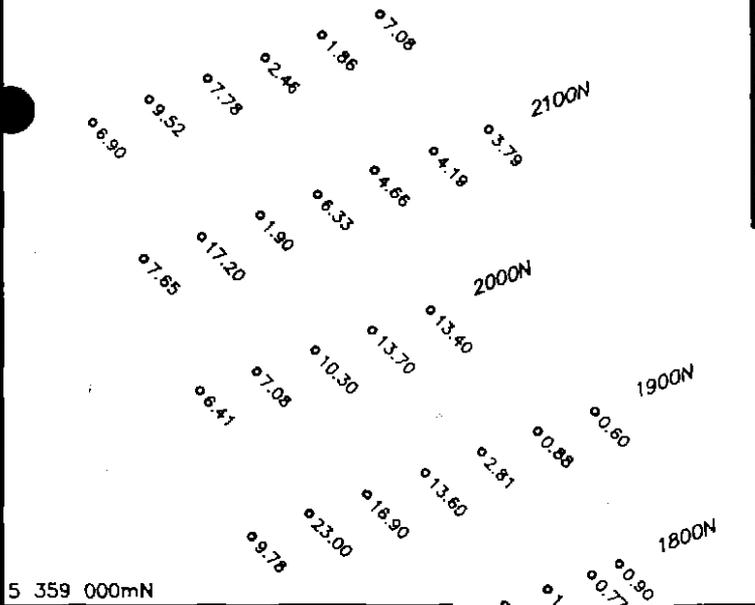
RL 8809 - OCEANA
AUSTRAL
AIR CORE DRILLING
BOTTOM OF HOLE ASSAYS
Fe (%)

DRAWING No.
311-GC-050

SCALE 1:5000



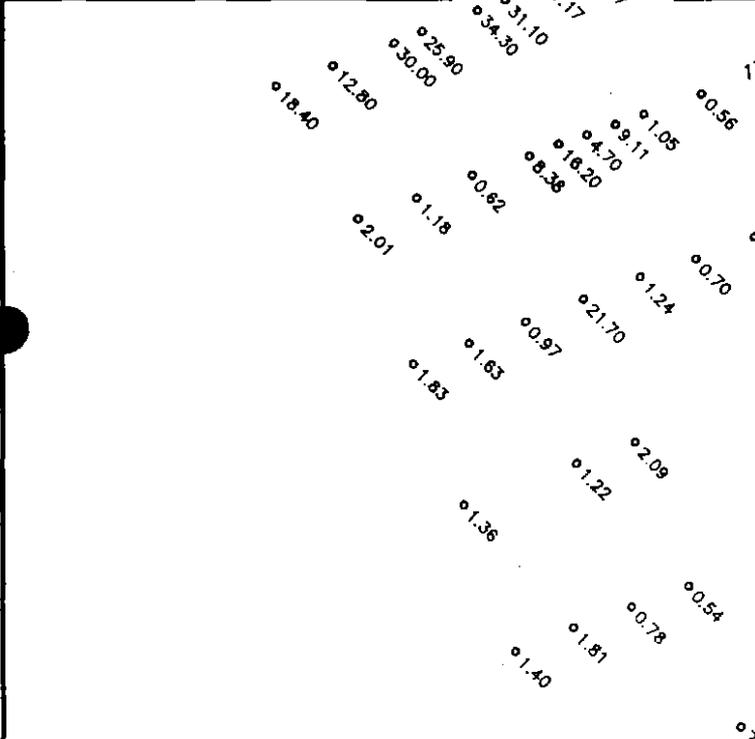
FIG. No.
18



217035

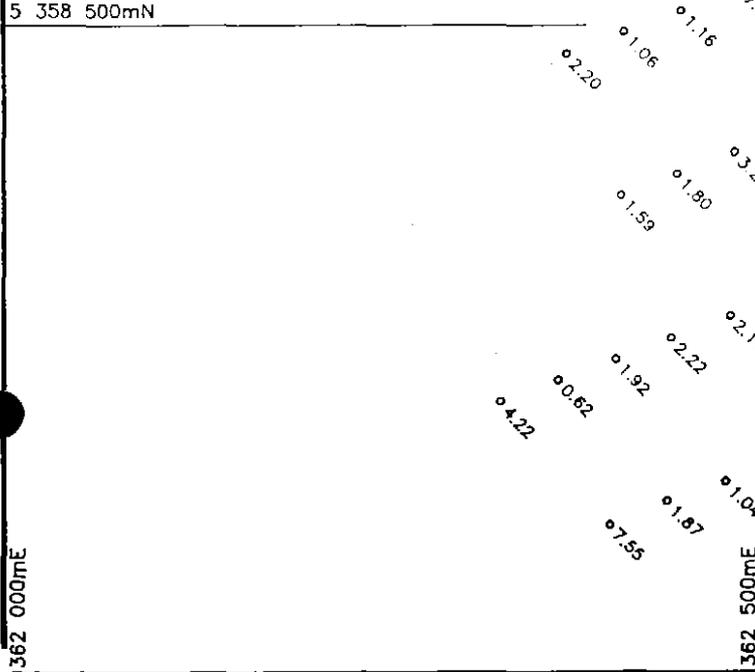
5 359 000mN

5 359 000mN



5 358 500mN

5 358 500mN



362 000mE

362 500mE



PASMINCO EXPLORATION

A Division of Pasminco Australia Limited

COMPILED : M.S.S.

DATE : Sept. 1985

DRAWN : G.M.B.

REVISIONS :

FILE : 5_ABHAZN

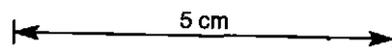
DRAWING No.
311-GC-052

SCALE 1:5000



FIG. No.
20

RL 8809 - OCEANA
AUSTRAL
AIR CORE DRILLING
BOTTOM OF HOLE ASSAYS
Zn (ppm)



217037

5 359 500mN

5 359 000mN

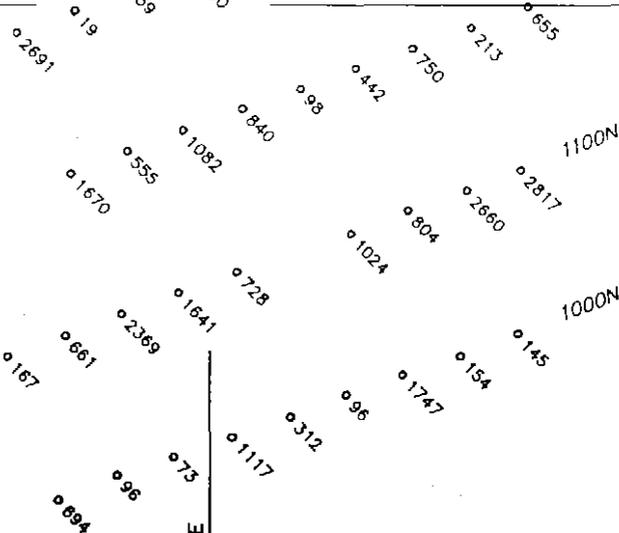
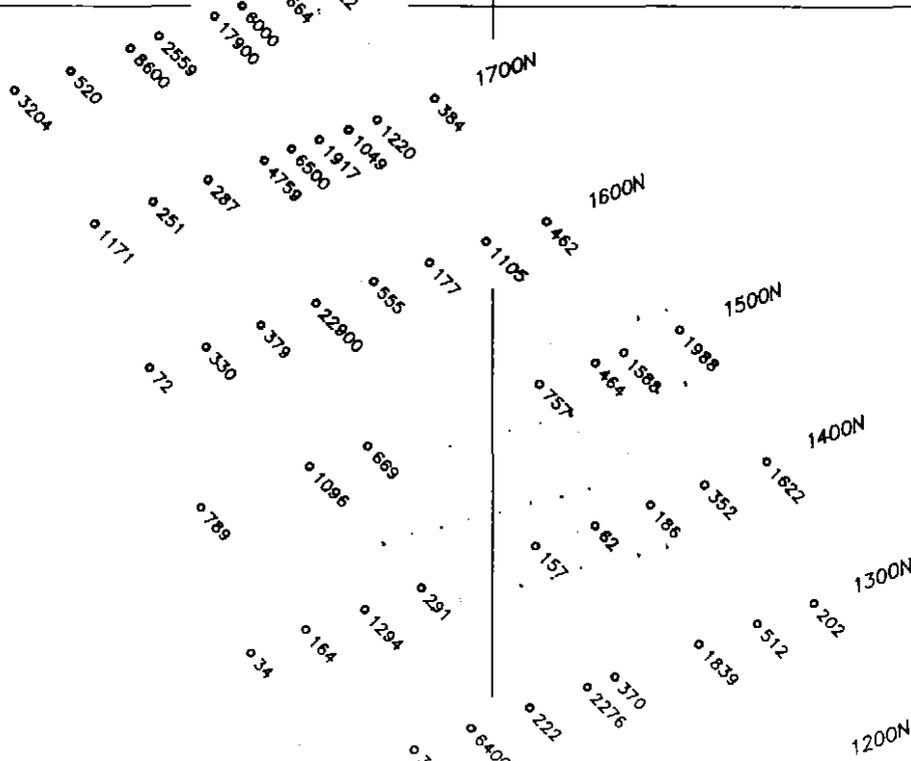
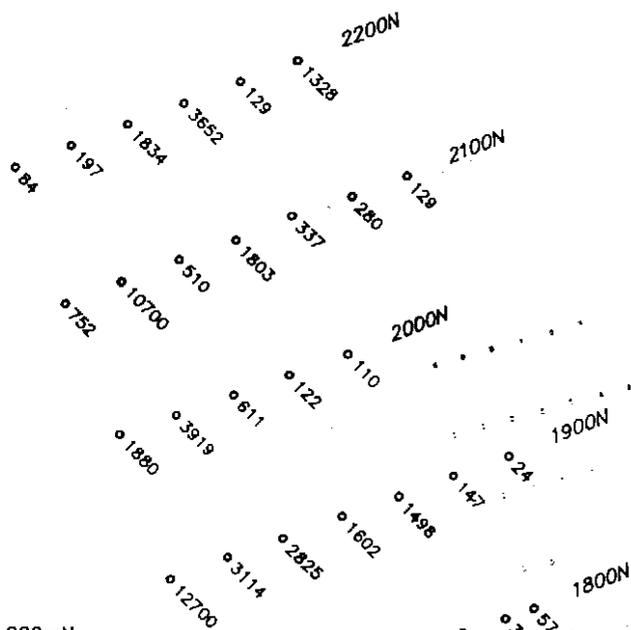
5 359 000mN

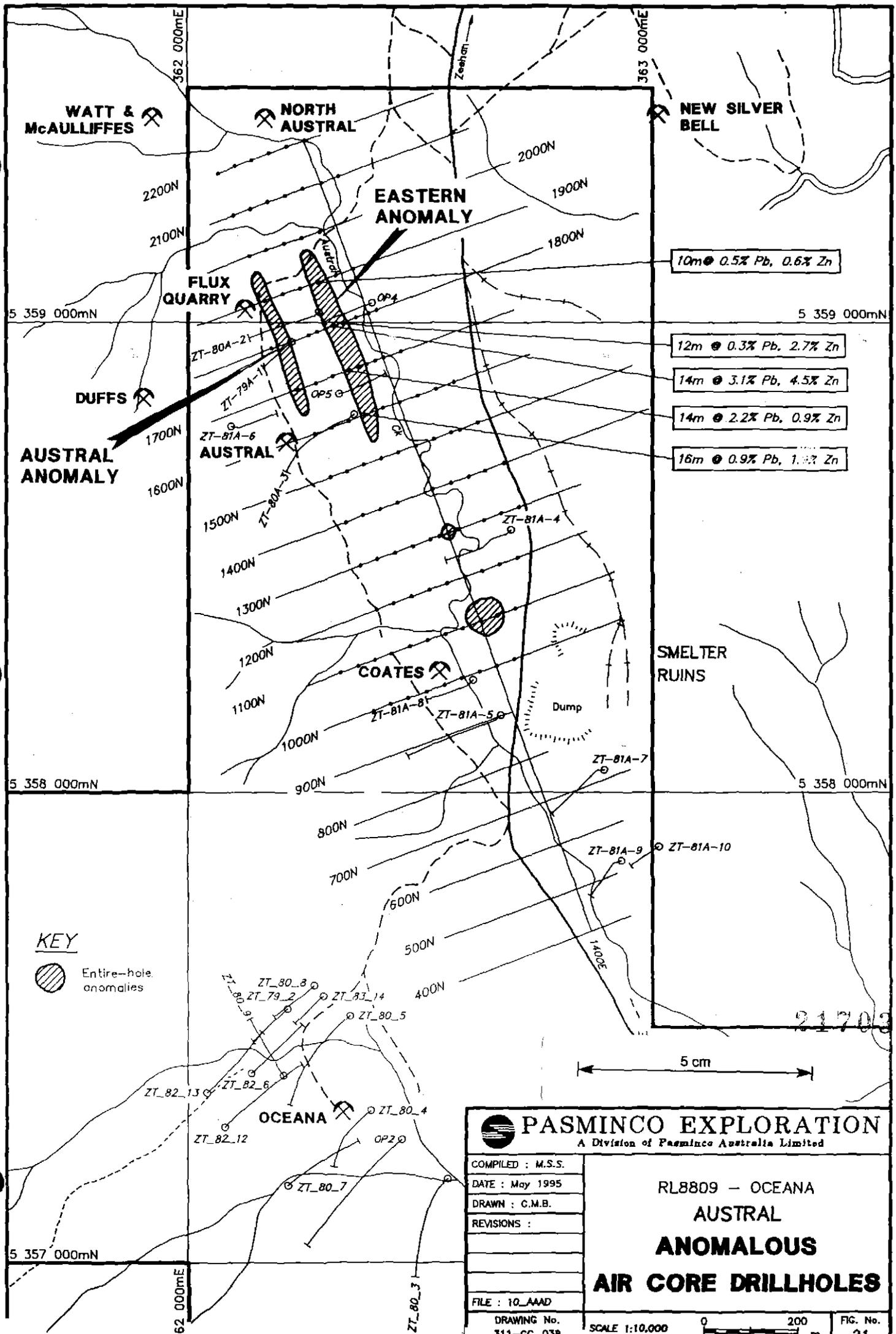
5 358 500mN

5 358 500mN

362 000mE

362 500mE

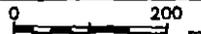




217038

KEY

 Entire-hole anomalies

 PASMINCO EXPLORATION A Division of Pasminco Australia Limited			
COMPILED : M.S.S.	RL8809 - OCEANA AUSTRAL ANOMALOUS AIR CORE DRILLHOLES		
DATE : May 1995			
DRAWN : C.M.B.			
REVISIONS :			
FILE : 10_AAAD			
DRAWING No. 311-GC 038	SCALE 1:10,000		FIG. No. 21

5.8 Diamond Drilling

Three diamond drill holes were completed during the licence year for a total of 594.4m. Two holes were drilled within the Austral Valley on the basis of aircore and ground magnetic surveys, the third within the Pyramid Valley to test for depth extent of the Pyramid Mine. Hole proposals for diamond drilling are reported in Appendix 9.

5.8.1 OP3

OP3 was drilled to test for mineralisation within the Gordon Limestone down dip from workings at the Pyramid Mine. The Pyramid Valley has numerous historic workings plus three Amoco costeans, the highest grade mineralisation exposed by such being 6m @ 7.2% Pb and 2.1% Zn. Gordon Limestone in outcrop thickens to both the northwest and southeast, due to the local influence of a southwest dipping high angle reverse fault, equivalent to the thrust fault intersected by OP1 at South Oceana. The Moina Sandstone was thrust northward along this fault over Gordon Limestone, leaving only the upper 100m of limestone stratigraphy exposed. OP3 tested for ore associated with, but down sequence from that within the costean and worked in the Pyramid Mine, potentially at a shallow depth without surface expression, due to over thrusting of Moina Sandstone.

Drill hole OP3 confirmed the interpreted geology, but failed to intersect significant base metal mineralisation (Figure 22, Appendix 10). Gordon Group limestone was intersected from surface to 121.4m, and varies from micrite and grainstone to massive dolostone. Pelletal-fossil grainstones dominate the sequence from 66m-121.4m. Dolomitisation appears to have consistently predated stylotisation, and is therefore interpreted to be a very early alteration phase. From 121.4m-143m a puggy, cavernous, mid to dark grey zone of decomposed limestone was intersected, corresponding with the down dip projection of the fault. Below the fault, pale pink to cream bedded quartz sandstone of the Moina Sandstone was intersected.

N

S

5 356 500mN

5 356 400mN

5 356 300mN

5 356 200mN

5 356 100mN

50mR.L.

150mR.L.

30mR.L.

SEA LEVEL

-50mR.L.

CROTTY QUARTZITE

GORDON LIMESTONE

MOINA SANDSTONE

OP3 WORKINGS & COSTEANS

6m @ 7.2% Pb, 2.1% Zn

150m

LEGEND

-  Micritic limestone dominated sequence
-  Grainstone/wackestone
-  Sandstone
-  Major fault zone

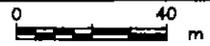
5 cm

5 356 200mN

5 356 500mN

5 356 400mN

5 356 300mN

 PASMINCO EXPLORATION A Division of Pasma Australia Limited			
COMPILED : M.S.S.	<p>R.L.8809 - OCEANA PYRAMID PROSPECT SECTION 363 600mE DRILLHOLE OP3</p>		
DATE : Nov., 1994			
DRAWN : G.M.B.			
REVISIONS : M.S.S.			
DATE : March 1995			
FILE : 2_OP3			
DRAWING No. 311-DR-035	SCALE 1:2000		FIG. No. 22

2120240

The fault dips subvertically, and consequently places the conformable Gordon Limestone-Moina Sandstone contact at greater than 400m depth. This stratigraphic position it is a primary target because of known mineralisation along strike, however depth to target hinders drill testing in the Pyramid Valley.

Minor galena within calcite veining was intersected by OP3. Highest base metal values were returned from black pug within the fault zone (8m @ 0.4% Zn, 195 ppm Pb, 11.3% Fe and 1.2% Mn) which was similarly anomalous where intersected at South Oceana.

5.8.2 OP4

OP4 was drilled to 241.4m to test bedrock beneath the eastern aircore/ground magnetic anomaly defined above. The eastern anomaly is located within the centre of the Gordon Limestone stratigraphy, similar to the stratabound ore at Oceana, and is immediately up sequence from mineralisation at the Austral Mine. Numerous intersections of semi-massive siderite were recorded from anomalous aircore holes. OP4 was designed to test bedrock below the most anomalous aircore drill holes.

Drill hole OP4 did not intersect significant mineralisation, however it is interpreted that the target was not achieved (Figure 23, Appendix 11). Bedded sandstone, siltstone and quartzite of the Crotty Quartzite was intersected from surface to 77.8m, hosting minor disseminated galena mineralisation. The Crotty Quartzite-Gordon Limestone contact is marked by a puggy zone hosting attenuated clasts of sandstone from 77.8m-85.0m, interpreted to be faulted due to a change in core to bedding angle across the contact. The limestone is predominantly micritic and wackestone to 189.9m, with occasional interbeds of quartz sandstone. Below 189.9m the sequence is grainstone-dominant, typical of the central unit of the Gordon Limestone. Much of the carbonate intersected in OP4 is strongly dolomitised, removing any depositional textures.

Core to bedding angles within the Gordon Limestone range from 15°-25°, and indicate that the stratigraphy is overturned. As a result, only 40m true thickness of limestone was intersected by OP4, and the stratigraphic position corresponding to the aircore/ground magnetic anomaly was not achieved. The hole was ended due to caving and the increased distance to target.

Two short intervals of visible low grade mineralisation were intersected by OP4. From 137.5m-142.2m irregular patches of coarsely crystalline dolomite hosts trace sphalerite. At 233.9m-237.1m intense dolomitisation has overprinted depositional texture. This dolomite is strongly fractured and brecciated by calcite-siderite veining. Wall rock marginal to these veins host minor disseminated sphalerite (234m-236m 2m @ 0.6% Zn).

5.8.3 OP5

OP5 was drilled to again test the coincident eastern aircore/magnetic anomaly, collared 200m south of OP4, and drilling from west to east to allow for overturned stratigraphy. OP5 adequately tested the down dip projection of the anomaly, and intersected three separate zones of mineralisation, two of which correspond to the surface anomalism (Figure 24, Appendix 12). The northern end of a strike extensive magnetic anomaly at the upper contact of the Gordon Limestone was also tested by OP5.

The drill hole intersected Gordon Limestone from surface to a puggy contact with the Crotty Quartzite at 182.5m. Approximately 140m true thickness of limestone was drilled, the upper zone roughly equating to the OP4 sequence, and confirming that the target horizon was not intersected within that hole. The limestone is fossil rich and clastic mudstone poor to 98.7m, downhole from which fenestral micrite, wackestone and clastic mudstone are common.

Three zones of visible mineralisation were intersected in OP5, each associated with moderate core loss. Assay results for these intervals were not available at time of writing. Rubbly siderite-galena with minor sphalerite is present from 30.7m-35.8m. Moderate cleavage is developed at 34.5m, where sphalerite is attenuated in cleavage. Siderite is both cream-brown and coarsely crystalline black with minor cream siderite lenses.

At 66.4m-70.2m rubble of semi-massive cream siderite, fractured and resealed by black dolomite (?) is veined by coarsely crystalline galena and minor sphalerite. Pyrite nodules are abundant within siderite. Immediately down hole from this mineralisation from 70.2m-83.7m is an intensely silica altered breccia zone comprised of angular clasts of dolomite and minor siderite hosted by a dark grey silica matrix. Disseminated sphalerite occur in both clasts and matrix, indicating mineralisation both pre and post dated alteration. This siliceous style of alteration has not been previously noted from the Austral Valley.

Mineralisation from 66.4m-70.2m occurs down dip from, and adequately explains the aircore anomaly. The mineralised zone has a magnetic susceptibility greater than 10 times background, and therefore also explains the coincident surface magnetic anomaly.

The final and highest grade zone of mineralisation intersected is present from 177.4m-180.3m (2.9m @ 6% Pb+Zn, vis. est.) at the Gordon Limestone-Crotty Quartzite contact, a stratigraphic position not previously a primary target position. Mineralisation is rubbly, and hosted up and down hole by black puggy weathered limestone. Cream-brown siderite again hosts coarse galena intercrystalline and in veins. The siderite has been in part fractured and resealed by pale dolomite. Again magnetic susceptibility of the mineralised zone is greater than 10 times background.

5.8.4 OP6

Following intersection of mineralisation at the Gordon Limestone-Crotty Quartzite contact in OP5 with above background magnetic susceptibility, drill hole OP6 was proposed to test a ground magnetic anomaly at this contact, 200m to the south of OP5. A weak aircore anomaly in part corresponds to this ground magnetic anomaly. This drill hole had not been collared by the end of the reporting period.

6 CONCLUSIONS

Work completed during the licence year has tested Gordon Limestone within the Pyramid and Austral Valleys for Pb-Zn mineralisation. Mineralisation was located in both the surficial decomposed limestone and bedrock by aircore drilling. Bedrock was further tested by diamond drilling, which located three mineralised horizons of limited thickness.

Although prospectivity of Oceana RL8809 remains high, potential for discovery of a new, moderate tonnage ore body, near to surface is low due to the small area of Gordon Limestone in outcrop and high density of drilling. Targets which have not been fully tested to date are:

Oceana Grid:

- The crosscutting mineralisation adjacent to the Oceana Fault is open below 250m; very difficult ground conditions and high Pb/Zn ratio make testing of this block a low priority.
- The stratabound ore lens is locally Zn rich, and potential exists for an increase in thickness and grade; mineralisation mined from area 'C' (Figure 5) may be an up-plunge equivalent of mineralisation intersected in ZT-80-4, suggesting a southerly plunging ore shoot which has not been tested to the south of ZT-80-4; depth to target for a significant increase in ore lens tonnage is greater than 300m.
- The contact between Gordon Limestone and Moina Sandstone has not been drilled at Oceana, despite mineralisation at this stratigraphic position along strike; thick scree masks this contact from surface expression, however a ground magnetic anomaly is situated along this contact; deep weathering is well known from this contact within the Austral Valley.

Pyramid Grid

- The Gordon Limestone-Moina Sandstone contact does not come to surface within the Pyramid Valley due to faulting; depth to target is greater than 400m.
- Potential for mineralisation within other parts of the stratigraphy has not been properly assessed.

Austral Grid

- The Balstrup Fault and the Gordon Limestone are likely to intersect at depth in the north end of the Austral Valley; the Balstrup Fault is an important conduit for Devonian Pb-Ag-Zn mineralisation in the Zeehan field, and may have generated mineralisation in the Gordon Limestone.
- A northeast-southwest trending fault terminates the Gordon Limestone in the north end of the Austral Valley; this structure parallels the Oceana Fault, and may have generated mineralisation equivalent to the crosscutting style at Oceana.
- The Gordon Limestone-Crotty Quartzite contact found to be mineralised in OP5 is poorly drilled in the Austral Valley; the contact corresponds with a weak aircore and ground magnetic contact to the south of OP5.
- The Gordon Limestone adjacent to the Oceana Fault has been tested for an offset of the Oceana orebody; potential may exist for a different lens geometry.
- Mineralisation is known from within the weathered limestone in the Austral Valley; the extent, accurate grades and mineralogy are unknown.

7 RECOMMENDATIONS

Further exploration of Oceana RL8809 is recommended. Activity for the coming licence year should include:

Austral Grid

- drilling of hole OP6 to follow up results of OP5;
- follow-up mineralisation intersected in OP6;
- reviewing stratigraphy intersected in ZT-81A-9 and ZT-81A-10 to ensure the Oceana host position was fully tested;
- determine mineralogy of mineralisation hosted by weathered limestone;
- re-sample weathered limestone found to be anomalous by aircore drilling using a continuous coring technique.

Oceana Grid

- reinterpret ground magnetics to locate weak anomalies corresponding to siderite \pm mineralisation, particularly along the Moina Sandstone-Gordon Limestone contact;

Pyramid Grid

- complete small ground magnetic survey;

8 ENVIRONMENTAL DISTURBANCE AND REHABILITATION

Exploration activities undertaken during the licence year that have impacted on the natural environment are:

Gridding: Re-establishment of a grid within the Austral Valley required minor cutting in the southern end of the valley; natural regrowth of vegetation along gridlines is occurring at a rapid rate.

Aircore Drilling: A track mounted rig and support vehicle was used for aircore drilling to minimise the environmental impact of the program. The rig made use of existing tracks where possible, and remained in areas of button grass. Vegetation is quickly regenerating within tracks left by the rig. All cuttings were removed from site at the time of drilling.

OP3: Hole was drilled using a track mounted rig, requiring no access track to be established. Hole was sited on a pre-existing refilled costean. A small sump was hand dug and refilled at the completion of drilling. Route used to gain rig access is naturally revegetating. No rehabilitation activity is planned or required.

OP4: Access to site required 200m of new track to be established across button grass plain. Temporary track and drill site put in by excavator, both being re-levelled on completion of drilling. No revegetation has been completed.

OP5: Access to site used pre-existing but rehabilitated track, plus minor new track, all on button grass plain. Site established by excavator, with site and track re-leveled on completion of drilling. No revegetation has been completed.

9 EXPENDITURE

EXPENDITURE STATEMENT 1 SEPTEMBER 1994 - 31 AUGUST 1995

Personnel & Oncosts	\$55 858
Travel & Accommodation	\$3 427
Geochemical Consultants & Assays	\$12 235
Geophysical Surveys & Consultants	\$4 779
Drilling (including access & core processing/storage)	\$86 322
Other Consultants	\$2 819
Stores & Supplies	\$5 558
Vehicles & Equipment	\$4 293
Computing	\$1 668
Tenement Fees	\$500
Office Running Costs	\$11 675
Total Direct Costs	\$189 134
Management Fee	\$19 215
TOTAL EXPENDITURE	\$208 349

10 KEYWORDS AND LOCATION

LEAD, SILVER, ZINC, LIMESTONE, DOLOMITE, FACIES MARINE SHALLOW,
FAULT, CARBONATE HOSTED TYPE, DISCORDANT, MASSIVE,
STRATABOUND, ORDOVICIAN, DRILL DIAMOND, ASSAYING, DRILL
AIRCORE, GEOPHYS MAGNETICS.

QUEENSTOWN SK5505

TENEMENT: RL 8809 OCEANA JV

ZEEHAN, OCEANA, AUSTRAL

11 REFERENCES

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APPENDICES

APPENDIX 1

Schedule

SCHEDULE RL8809

Commencing at a south west corner of the area whose grid co-ordinates are 362 000 metres E. 5 356 000 metres N. thence grid north to 5 357 000 metres N. grid west to 361 500 metres E. again grid north to 5 358 000 metres N. grid east to 362 000 metres E. aforesaid again grid north to 5 359 500 metres N. again grid east to 363 000 metres E. grid south to 5 357 500 metres N. again grid east to 364 000 metres E. again grid south to 5 356 000 metres N. thence again grid west to the point of commencement.

APPENDIX 2

Oceana RL 8809 - Exploration History

EXPLORATION HISTORY
OCEANA/AUSTRAL/NTH AUSTRAL(MAXIM)/PYRAMID

- 1947-60** **Zeehan Mines Pty Ltd**
- Exploration drilling and reopening of workings
- 1978-88** **Amoco/Cyprus+EZ, EL4/78**
- 1978/79** gridding; B+C horizon soil sampling; gradient array plus magnetic survey on Oceana, Nth Austral, Austral; grid mapping; field checking of 1970 Turair EM anomalies with mapping and soil sampling; (Jones, 1979).
- 1979/80** grid extension at Oceana, Austral; Jackro power auger at Oceana; test of IP and pulse EM at Oceana; B horizon soil sampling at 50m intervals; heliborne DIGHEM at Oceana; drilling of ZT-79-2, ZT-80-3, ZT-80-4, ZT-80-5, ZT-79A-1, ZT-80A-2, ZT-80A3; petrographic work on ZT-79-2; (Roxburgh & Jones, 1980).
- 1980/81** compilation of 1947-60 data by Curtis & Assoc.; gridding at Austral, Nth Austral, Pyramid; mapping; 16 costeans dug, mapped and sampled; mapping of grids; Jackro power auger sampling, 25m intervals; gravity survey; drilling of ZT-80-6, ZT-80-7, ZT-80-8, ZT-80-9; DH pluse EM; core physical property tests; (Jones, 1981).
- 1981/82** airphoto interpretation emphasising structure; Jackro power auger at Austral; rock chip sampling at Pyramid; core grinding; reprocessing of gravity; airborne magnetics at 250m spacing; 2 costeans dug at Austral; drilling of ZT-81A-4, ZT-81A-5, ZT-81A-6, ZT-81A-7, ZT-81A-8, ZT-81A-9, ZT-81A-10; (Jones, 1983a).
- grid extension; core grinding; DH SIROTEM, density and gamma logging; magnetic susceptibility reading of Oceana core; Winkie short hole drilling; (Jones, 1983b).
- 1982/83** grid extension; 13 costeans dug at Oceana; core grinding; ground magnetics on Pyramid; EM-37 on Oceana, Austral, Nth Austral; DH SIROTEM, gamma, density; review of Mines Dpt. collected aeromag.; drilling of ZT-82-10, ZT-82-10A, ZT-82-11, ZT-82-12, ZT-82-13; ground check of aeromag anomalies with soil sampling and ground mag; (Jones, 1983a).
- geological mapping at Pyramid; rock chip sampling at Pyramid; 3 costeans dug at Oceana; petrographic study on core; fluid inclusion and isotope study of core; Pyramid gravity contouring; review of Nth Austral geophysics; JRB compilation of pre-Amoco geophysics; drilling of ZT-82-13, ZT-83-14; (Jones, 1983b).
- 1983/84** JV with EZ set up with EZ as managers; gridding, Jackro sampling at Pyramid; IP and drilling of ZMG249/249A at Nth Austral; (Mathison & Kay, 1984).

- 3 costeans dug, sampled and in part mapped at Pyramid; lead isotope study on Oceana; petrographic work; (Mathison, 1984).
- 1984/85 No work; (Mathison, 1985).
- 1985/86 Wacker sampling at Pyramid; 7 shallow winkie holes (ZWP 27-33); (Mathison, 1986).
- 1986/87 No work; (Mathison & Taylor, 1987).
- 1987/88 No work; RL established; (Jones, 1988).
- 1988-95 Cyprus/Hudspeth/Arimco+EZ/Pasminco, RL8809**
- 1991/92 review of geophysical data by Leaman; detailed mapping of the sequence; ground magnetics; processing of gravity; relogging of core; (Quayle, 1992).
- 1992/93 drilling of OP1, OP2; minor rock chip sampling; magnetic and gravity interpretation; DHEM of holes drilled; (Quayle, 1993).
- 1993/94 relogging of existing drill core; (Saxon, 1994).
- 1994/95 ground magnetics; drilling of OP3, OP4, OP5; aircore drilling; resampling of Oceana core; mapping and rock chip sampling; gravity and magnetic interpretation; (Saxon, 1995).

APPENDIX 3

Rock Chip Assay Results, Sample Ledger

ROCK CHIP ASSAY RESULTS, SAMPLE LEDGER

SAMP	NORTH	EAST	Cu	Pb	Zn	Fe%	Mn
36125	5356410	363590	35	66300	2130	9.46	27900
36126	5356410	363590	76	93200	7900	13.8	38800
36127	5356410	363590	5	97	2691	48.7	6900
36128	5358910	362410	8	1507	12000	56.5	13500
36129	5358930	362395	2	225	6900	48	34700
36130	5358950	362370	2	86	4447	45.4	36100
36131	5358950	362370	10	927	6700	50	640
36132	5358975	362365	4	319	6500	58.6	7300
36135	5359380	362250	49	2230	4192	55.4	1469
36136	5359058	362600	4	27	40	0.68	80
36137	5359055	362600	5	42	47	0.58	42
36138	5359052	362601	4	41	26	0.56	18
36139	5359018	362602	18	358	86	0.97	17
36140	5359015	362602	11	212	76	0.83	16
36141	5359012	362602	10	85	113	0.91	17
36142	5359009	362602	7	95	75	1.17	18
36143	5359006	362603	8	751	62	0.91	18
36144	5359003	362604	9	208	47	0.96	17
36145	5359000	362604	19	198	45	1.24	25
36146	5358997	362604	41	267	37	1.17	20
36147	5358994	362605	31	287	30	0.98	19
36148	5358991	362605	19	245	31	1	17
36149	5358988	362605	16	347	61	0.94	17
36150	5358985	362606	9	122	38	0.8	16
36151	5358982	362607	9	48	72	0.88	17
36152	5358979	362607	7	260	58	0.97	20
36153	5358976	362608	11	215	86	1.2	18
36154	5358973	362608	15	137	37	0.99	16

OCEANA RL8809 : ROCK CHIP SAMPLING AUGUST 1994 - SEPTEMBER 1995

SAMPLE NO.	PROSPECT	COMMENTS
36125	Pyramid	Dolomitic limestone, minor siderite; coarse galena dissemination and veining; dump sample;
36126	Pyramid	Dolomitic limestone, minor siderite; coarse galena dissemination and veining; dump sample;
36127	Austral	Vuggy goethitic ironstone; orange brown; dump sample;
36128	Austral	Red-brn to black irst; botr/vugular, minor msv; mnr calcite vein; trench dump sample;
36129	Austral	Msv siderite/dolomite with ironstone coating; coarsely xline; no sulphides;
36130	Austral	Msv 1st/siderite, thin ironstone coating; pale-mid grey;
36131	Austral	1rst from adjacent to 36130; vuggy/botr; mnr gravel cemented in ironstone;
36132	Austral	Red-brn irst float; no associated siderite; massive;
36135	Austral	Siliceous irst, red-brn; hard, msv; outcrop 20m long;
36136-36154	Balstrup	Channel samples from Balstrup Fault in Zeehan-Strahan Road; chip collected over 3m;

APPENDIX 4

ZT-80-7, OP2 Assay Results

OP2 GEOCHEMISTRY

Sample	From	To	Cu	Pb	Zn	Ag	Fe%	Mn	Co	Ni	Cd	Mo
39801	165	167	8	8	18	<1	0.87	215	4	8	1	<5
39802	167	169	9	12	114	<1	0.64	221	3	7	<1	<5
39803	169	171	7	6	23	<1	0.41	230	4	6	<1	<5
39804	171	173	6	7	21	<1	0.36	259	3	5	1	<5
39805	173	175	7	627	258	2	0.62	527	3	6	2	<5
39806	175	177	7	63	175	<1	0.97	343	<3	7	1	<5
39807	177	179	13	44	451	<1	2.09	264	4	10	2	<5
39808	179	181	9	29	51	<1	1.15	290	4	10	1	<5
39809	181	183	7	20	32	<1	0.66	224	<3	5	<1	<5
39810	183	185	8	45	106	<1	1.46	236	<3	8	1	<5
39811	185	187	7	29	126	<1	1.34	343	<3	5	1	<5
39812	187	189	8	22	83	<1	0.84	230	<3	5	<1	<5
39813	189	191	10	11	31	<1	0.74	245	3	6	1	<5
39814	191	193	13	22	48	<1	0.49	212	<3	5	1	<5
39815	193	195	7	7	29	<1	0.58	229	<3	4	1	<5

217061

Sample	From	To	Cu	Pb	Zn	Ag	Fe%	Mn	Co	Ni	Bi	Cd	Mo
38575	137	139	5	16	193	<1	0.55	152	<3	9	<10	<1	<5
38576	139	141	5	19	120	<1	0.75	176	3	4	<10	<1	<5
38577	141	143	3	27	103	<1	0.76	227	<3	3	<10	<1	<5
38578	143	145	6	11	54	<1	2.01	702	11	83	<10	<1	<5
38579	145	147	4	17	72	<1	0.67	222	3	9	<10	<1	<5
38580	147	149	6	18	67	<1	0.54	191	4	5	<10	<1	<5
38581	149	151	4	11	72	<1	0.53	240	<3	3	<10	<1	<5
38582	151	153	3	6	69	<1	0.4	161	<3	<3	<10	<1	<5
38583	153	155	<2	27	198	<1	0.35	158	<3	<3	<10	<1	<5
38584	155	157	<2	56	262	<1	0.42	255	<3	4	<10	<1	<5
38585	157	158	3	79	198	<1	0.45	255	<3	<3	<10	<1	<5
38586	158	159	3	150	866	<1	0.46	592	3	5	<10	4	<5
38587	159	160	3	60	269	<1	0.47	245	3	4	<10	2	<5
38588	160	161	4	31	155	<1	0.48	247	3	6	<10	<1	<5
38589	161	162	<2	81	227	<1	0.21	189	<3	<3	<10	1	<5
38590	162	163	<2	144	925	<1	0.46	1411	<3	3	<10	4	<5
38591	163	164	3	253	1460	<1	1.08	4610	3	8	<10	5	<5
38592	164	165	2	269	1121	<1	0.6	1694	<3	5	<10	5	<5
38593	165	166	3	229	1076	<1	0.5	1078	<3	4	<10	5	<5
38594	166	167	3	205	702	<1	0.48	1406	4	<3	<10	4	<5
38595	167	167.8	50	-	-	33	-	-	4	21	<10	137	<5
38596	167.8	170	4	1324	2171	<1	1.32	4841	4	7	<10	12	<5
38597	170	171	<2	165	573	<1	0.46	1431	3	4	<10	3	<5
38598	171	172	<2	169	710	<1	0.47	1356	<3	3	<10	4	<5
38599	172	173	2	143	901	<1	0.41	1110	<3	3	<10	5	<5
38600	173	174	2	175	930	<1	0.36	968	<3	4	<10	6	<5
38701	174	175	<2	107	713	<1	0.26	675	<3	4	<10	4	<5
38702	175	176	2	164	718	<1	0.6	1587	<3	5	<10	5	<5
38703	176	177	<2	143	613	<1	0.41	594	<3	4	<10	4	<5
38704	177	178	<2	108	392	1	0.33	689	<3	4	<10	3	<5
38705	178	179	<2	102	431	1	0.35	1105	<3	3	<10	3	<5
38706	179	181	<2	83	373	1	0.25	658	<3	<3	<10	3	<5
38707	181	183	<2	86	329	<1	0.29	334	<3	3	<10	3	<5
38708	183	185	<2	73	371	<1	0.18	320	<3	3	<10	3	<5
38709	185	187	<2	42	256	<1	0.33	212	<3	4	<10	1	<5
38710	187	189	<2	29	130	<1	0.24	130	<3	4	<10	1	<5
38711	189	191	<2	7	67	<1	0.3	85	<3	<3	<10	1	<5
38712	191	193	<2	7	199	<1	0.31	118	<3	<3	<10	1	<5
38713	193	195	<2	14	64	<1	0.32	121	<3	3	<10	1	<5
38714	195	197	<2	21	38	<1	0.84	313	<3	5	<10	1	<5
38715	197	199	<2	28	51	<1	0.38	121	<3	<3	<10	1	<5

Sample	From	To	V	Mg	Ba	W	Sn	As	Hg	Sb	Se	Te
38575	137	139	32	1	70	<10	<3	9	0.035	<0.5	0	<0.1
38576	139	141	37	2	94	<10	5	7	0.02	<0.5	<0.1	<0.1
38577	141	143	38	2	141	<10	<3	10	0.019	<0.5	<0.1	<0.1
38578	143	145	37	4	136	<10	<3	200	0.016	3	<0.1	<0.1
38579	145	147	33	2	68	35	<3	11	0.014	1	<0.1	<0.1
38580	147	149	32	1	79	15	<3	7	0.015	1	<0.1	<0.1
38581	149	151	27	2	43	<10	<3	4	0.014	1	<0.1	<0.1
38582	151	153	26	2	28	20	<3	3	0.018	1	<0.1	<0.1
38583	153	155	26	2	34	<10	<3	3	0.019	1	<0.1	<0.1
38584	155	157	22	2	47	<10	<3	3	0.029	1	<0.1	<0.1
38585	157	158	21	2	45	30	<3	2	0.022	1	<0.1	<0.1
38586	158	159	27	1	77	15	<3	3	0.077	1	<0.1	<0.1
38587	159	160	28	1	68	<10	<3	3	0.03	1	<0.1	<0.1
38588	160	161	32	1	124	<10	<3	3	0.016	1	<0.1	<0.1
38589	161	162	25	1	40	<10	<3	1	0.019	0	<0.1	<0.1
38590	162	163	26	1	97	<10	<3	3	0.074	1	<0.1	<0.1
38591	163	164	28	2	99	<10	5	4	0.087	1	<0.1	<0.1
38592	164	165	25	2	67	35	<3	3	0.077	2	<0.1	<0.1
38593	165	166	27	2	78	<10	<3	4	0.077	2	<0.1	<0.1
38594	166	167	23	1	54	900	<3	3	0.05	1	<0.1	<0.1
38595	167	167.8	13	2	78	<10	<3	4	1.098	39	<0.1	<0.1
38596	167.8	170	27	2	84	<10	<3	4	0.122	2	<0.1	<0.1
38597	170	171	22	5	71	<10	<3	3	0.043	1	<0.1	<0.1
38598	171	172	23	6	73	30	<3	3	0.057	1	<0.1	<0.1
38599	172	173	25	4	110	<10	<3	4	0.068	1	<0.1	<0.1
38600	173	174	25	3	71	730	<3	3	0.072	1	<0.1	<0.1
38701	174	175	23	2	59	<10	<3	3	0.051	1	<0.1	<0.1
38702	175	176	26	5	92	15	<3	4	0.063	2	<0.1	<0.1
38703	176	177	26	5	54	<10	<3	3	0.049	2	<0.1	<0.1
38704	177	178	22	3	34	15	<3	2	0.036	0	<0.1	<0.1
38705	178	179	21	2	56	<10	<3	<1	0.04	1	<0.1	<0.1
38706	179	181	22	2	66	1000	<3	2	0.038	<0.5	<0.1	<0.1
38707	181	183	23	2	50	<10	<3	3	0.036	1	<0.1	<0.1
38708	183	185	26	1	52	<10	<3	3	0.039	1	<0.1	<0.1
38709	185	187	29	1	67	<10	<3	4	0.036	1	<0.1	<0.1
38710	187	189	27	1	63	<10	<3	3	0.023	1	<0.1	<0.1
38711	189	191	28	2	56	<10	<3	3	0.01	1	<0.1	<0.1
38712	191	193	25	1	45	<10	<3	4	0.029	0	<0.1	<0.1
38713	193	195	24	2	34	1300	<3	3	0.016	1	<0.1	<0.1
38714	195	197	23	2	43	<10	<3	5	0.016	1	<0.1	<0.1
38715	197	199	24	2	46	<10	<3	2	0.012	1	<0.1	<0.1

21-80-7 GEOCHEMISTRY

217063

APPENDIX 5

Evaluation of Gravity and Magnetic Data - Leaman Geophysics

217065

LEAMAN GEOPHYSICS

Registered office:
3 MALUKA STREET, BELLERIVE, TAS. 7018
All correspondence to:
GPO BOX 320 D. HOBART, TAS. 7001
Telephone: (002) 44 1233
Fax: (002) 44 6674

November 30, 1994

Mark Saxon,
Pasminco Exploration,
PO Box 886,
BURNIE TAS 7320

Dear Mark,

I have spent three days reviewing your questions and the data. You were right, I did have a plot of the regional gravity data.

This is a frustrating area to work in. On the face of it one seems to have a lot of good data but, when it comes to the crunch, it leaves a lot to be desired. I have been able to provide answers which are reasonable to three of your four questions; the fourth cannot be resolved without more data.

In the year since Pasec asked me to work on this data I have had a chance to see some other correlations and possibilities and I have commented on the negative gravity effects and their possible uses. This is worth thinking about.

My account is attached.

Regards,



Dr. D.E. Leaman

217066

LEAMAN GEOPHYSICS

Registered office:

3 MALUKA STREET, BELLERIVE, TAS. 7018

All correspondence to:

GPO BOX 320 D. HOBART, TAS. 7001

Telephone: (002) 44 1233

Fax: (002) 44 6674

MEMO TO: Pasminco Exploration
Attention: Mark Saxon

FROM: D.E. Leaman

DATE: November 30, 1994

RE: AUSTRAL - PYRAMID AREA, RL 8809 (OCEANA)

I have reviewed available gravity and magnetic data near the Pyramid and Austral prospects. Locations and your current geological plan are shown in Figure 1. I have based the interpretation on the rock and formation distribution shown on this plan but have allowed for variant indications as shown in the recent "Zeehan" regional map of Mineral Resources Tasmania.

These notes represent an extension of work which has been previously reported ('Further evaluation of gravity and magnetic data, Oceana, Sept. 1993). Since I have no information concerning any drilling or other control information subsequent to that report I have assumed consistent curve fitting and rock property values, as well as solution styles.

I have commented upon your queries separately.

1. Does the thrust fault established in the Oceana area extend into the Pyramid area?

Previously reported lines (especially Oceana 2) offered an ambiguous view of structures and interactions near South Oceana. New analysis (Pyramid 1) indicates that the thrust fault does continue to the south. Some alternative solutions were evaluated but it seems highly probable that the apparent thinning of the limestone is an illusion created by the interplay of dips and faults. All other aspects of the interpretation, such as the location of granite and density or structural patterns, are consistent.

A gravity model is shown in Figure 2.

The line location is far from ideal and is not a specific test for the Pyramid Mine site. It is, however, the only location for which sufficient data are available peripheral to the main valley grids.

2a. Is the Gordon Limestone terminated by NE-SW faulting north of Austral, or is it concealed by an overthrust?

Figure 3 presents a model for a profile extending from North Austral to Pyramid. This profile is defined by the best data in the area. This model suggests that the block of Crimson Creek Formation is probably a roof horst block related to the intrusion of the granite. It is unlikely that it is overthrust and no model solution has been found consistent with such a concept. The faults involved may be reverse but they are very steep.

2b. Can the Balstrup Fault be recognised in this area, and can its dip be defined?

The fault can be recognised and approximately located but most of the structure lies east of the main grids of data and, as a result, no detailed examination is possible. The magnetic survey also lacks sufficient coverage.

2c. Is there geophysical evidence for/against the Tenth Legion Fault which has been implied to extend into the vicinity just east of Austral in regional mapping?

All modelled sections, including those in the September 1993 report, demonstrate that this fault can be identified and traced, indeed its character was demonstrated geophysically several years ago and was reported in the initial Mt Read Volcanics Project geophysical reports which led to its geological review and re-mapping. The presence of this structure, or its possible conversion by ramping, should be considered in all appraisals of structure in the Austral-Oceana area.

General

This is a complex area and consideration of the various models and formation distribution and variations suggests that substantial changes in thickness also occur. These appear to affect the Upper Cambrian conglomerates and Lower Ordovician siliceous rocks in particular. These variations, after faulting, thrusting and intrusion, may lead to complex exposure patterns. I think it wisest to assume that much of the variability is due to primary depositional character and that structural evolution is secondary where the Ordovician or younger sequences are involved.

No magnetic model has been included here for line Pyramid 1 due to the subtle variations in the field and their inability to distinguish any critical variation in models. The model presented is consistent with observations, however. Many other magnetic profiles have been distorted by surface and cultural effects and this is illustrated in Figure 4 for the Austral-Pyramid line.

The additional gravity models do suggest something much more important. Some localised reductions in the gravity field can be related to certain portions of the exposed limestones, or to zones where the limestone is concealed by thrusting. The affected zones are

often associated with faults suggesting that deep weathering, karsting or alteration may be involved. Such a simple explanation is not wholly viable, however, since the effects are generally not limited to the immediate region of such structures. There does, however, appear to be a correlation between mineralised sites (or known mineralisation) and these changes in the limestone and it may well be that alteration, encouraged weathering, or etching has occurred in the vicinity of sulphides.

This correlation also appears to apply in the Badger River area further south where the Amoco survey data is also available.

The relatively negative features may provide a clue to location of mineralisation and targetting and should be reviewed in this light. The effect observed has a relatively shallow origin and cannot be confused with the contributions from the underlying granite which may well have driven the entire fluid displacement and, perhaps, remobilisation episode.

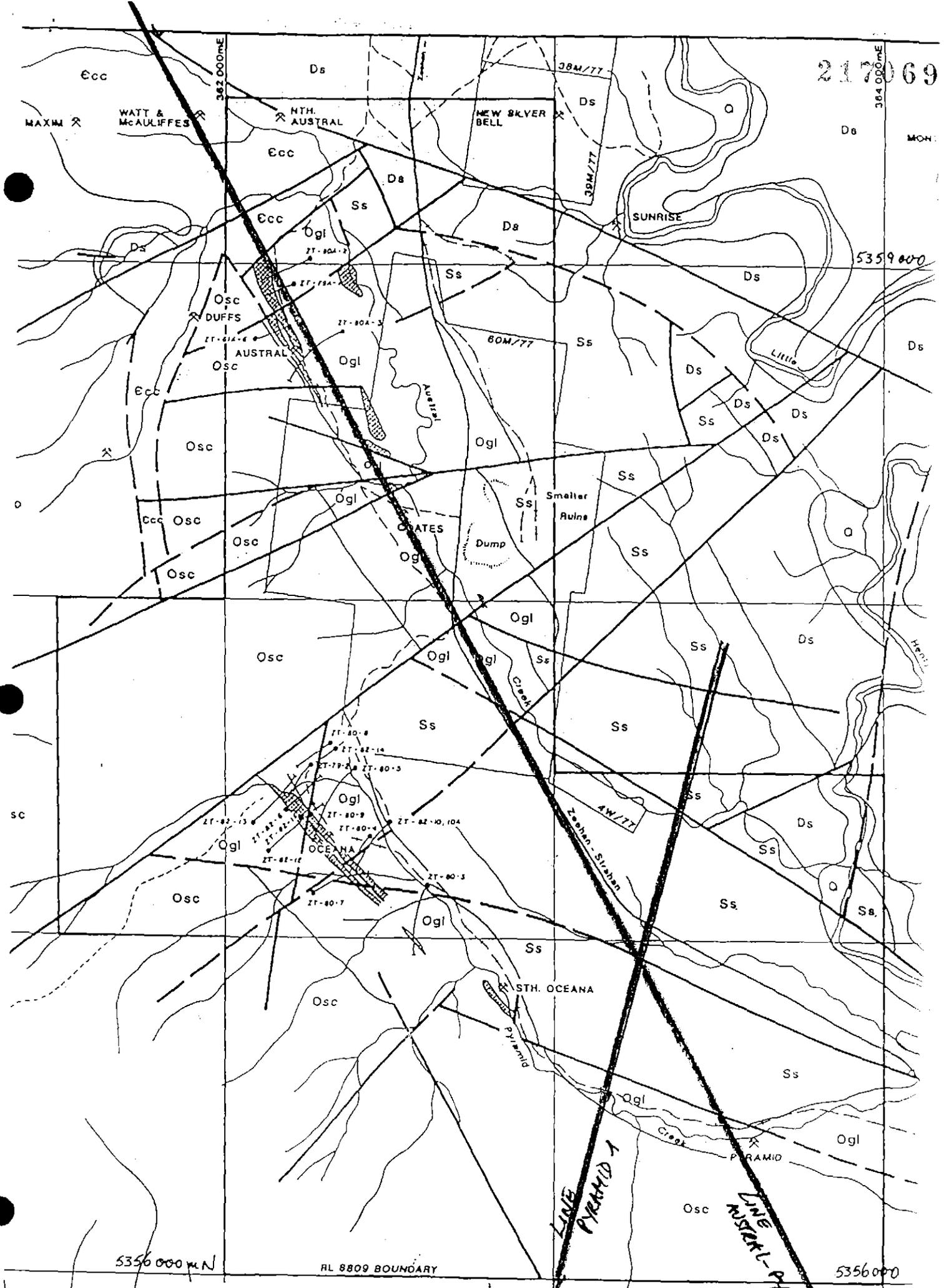
The negative anomalies are all located up dip of the mineralisation and may indicate either a footwall alteration response or an up-dip acid reaction.

Many issues remain unresolved or unclear due to limitations in the magnetic coverage and, in particular, the restricted grid of gravity data. Some further data acquisition is advised if questions such as 2b and 2c, or issues related to mineralisation and alteration, are to be adequately treated.



D.E. Leaman

217069



LOCATION OF RL 8809, OCEANA

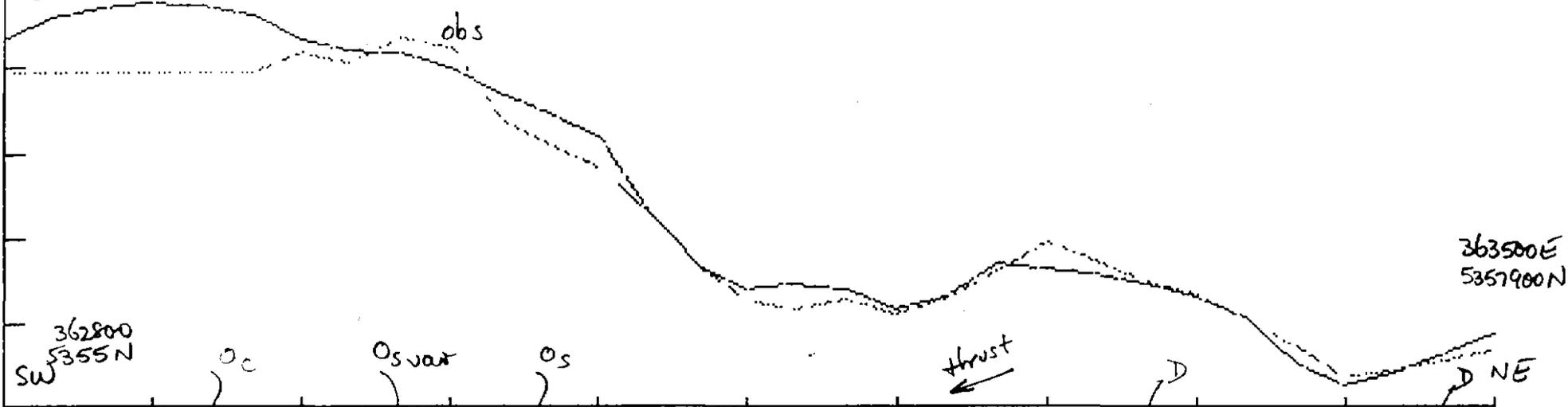
5 cm

FIGURE 1

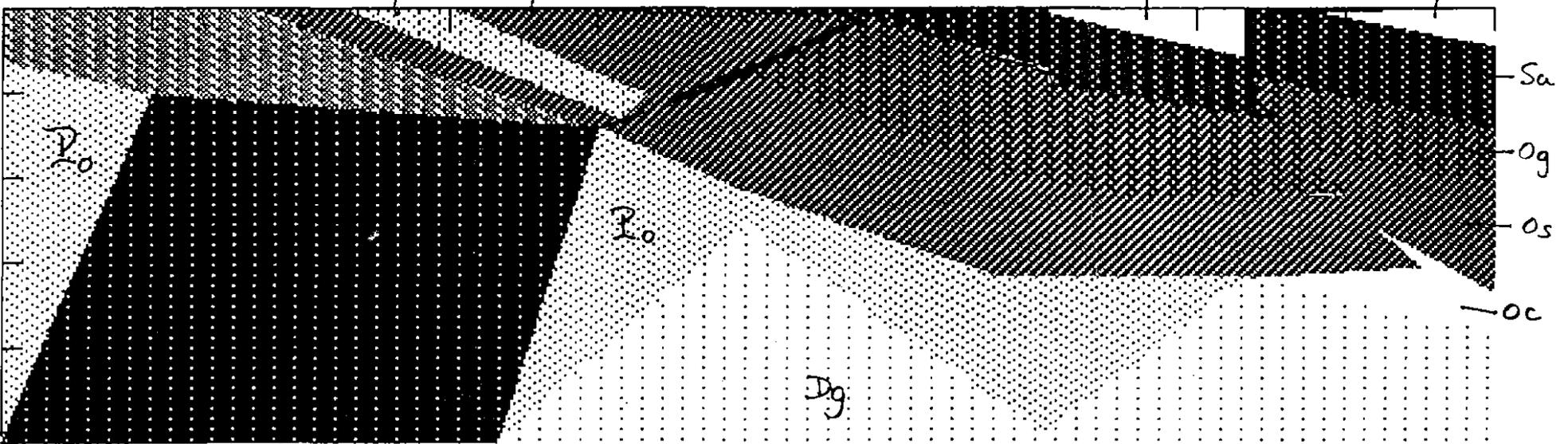
2D GRAVITY MODEL

ANOMALY

8



DEPTH



4000

Po/ecc?

OBS SHIFT 5
CALC SHIFT 0

3000

PYRAM1B

DISTANCE

RL 8809

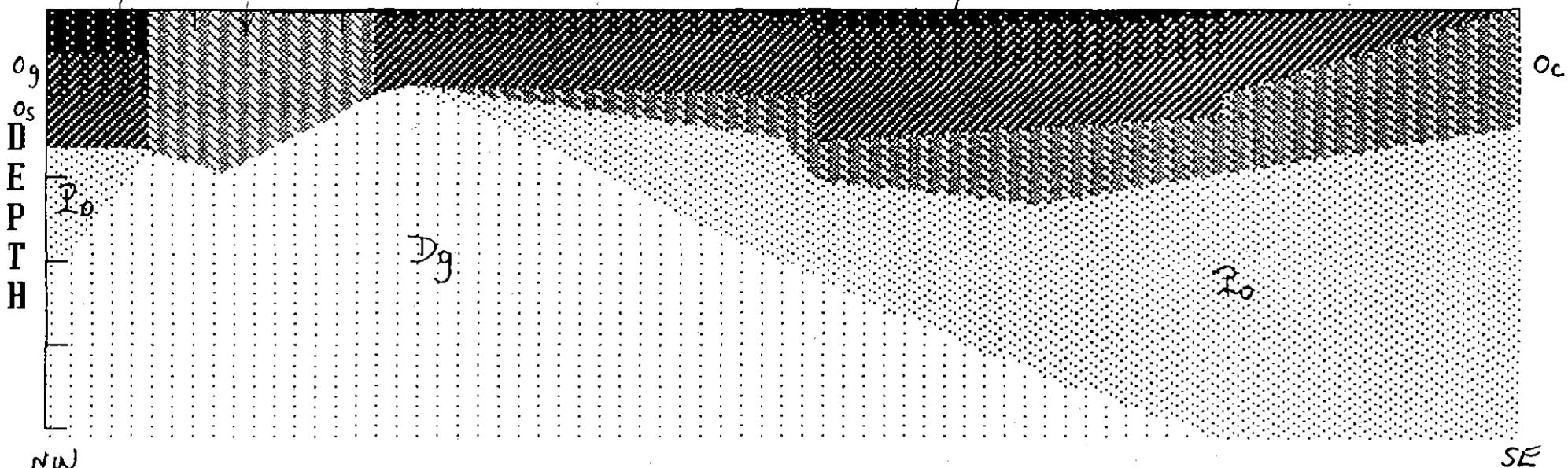
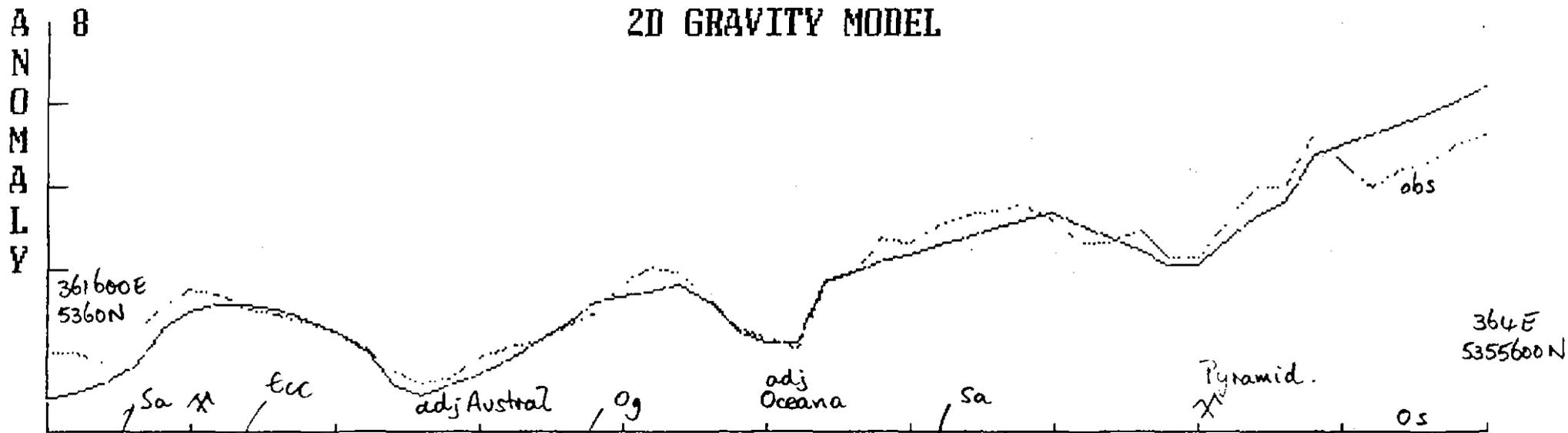
LEAMAN GEOPHYSICS
GPO Box 320 D
Hobart Tas 7001
Australia

WEST PYRAMID SECTION

FIG 2

217070

2D GRAVITY MODEL



4000

OBS SHIFT 6.5
 CALC SHIFT 1.5
 5000

AUST3A

DISTANCE

RL8809

AUSTRAL-PYRAMID

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 GPO Box 320 D
 Hobart Tas 7001
 Australia

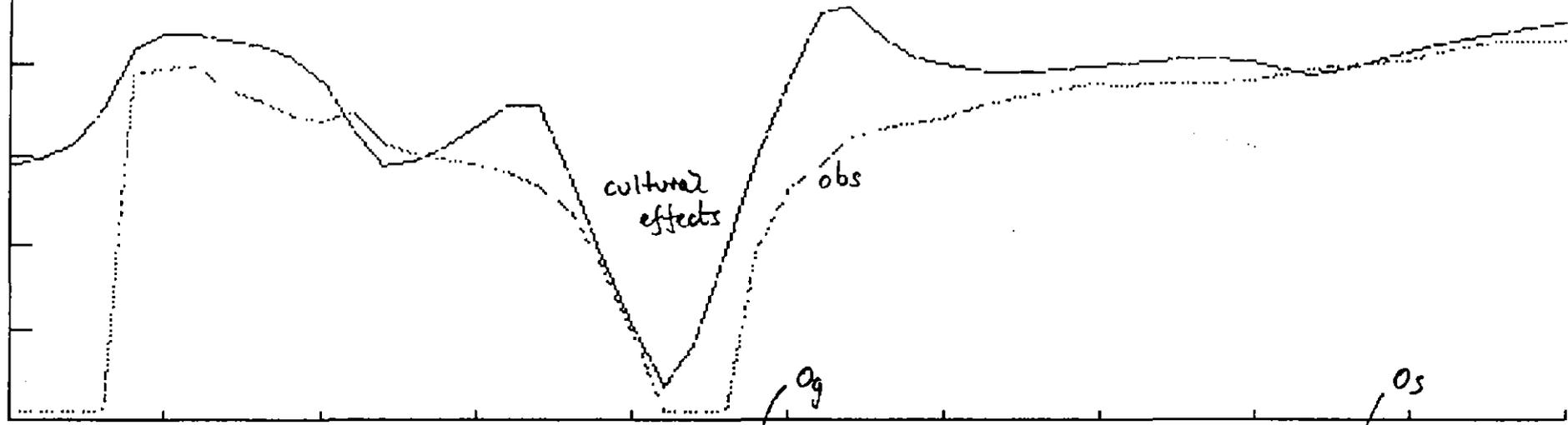
FIG 3

217071

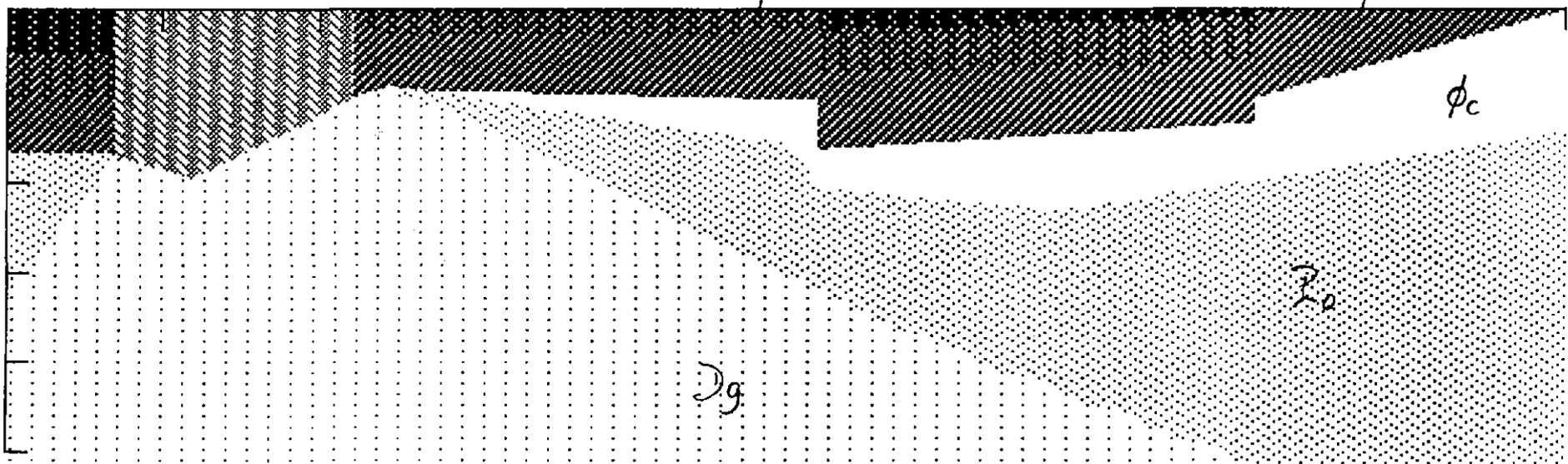
A
N
O
M
A
L
Y

70

2D MAGNETICS MODEL



D
E
P
T
H



4000

OBS SHIFT 0
 CALC SHIFT 30

5000

AUST3A

DISTANCE

RL8809

AUSTRAL-PYRAMID

LEAMAN GEOPHYSICS
 GPO Box 320 D
 Hobart Tas 7001
 Australia

FIG 4

212072

APPENDIX 6

Ground Magnetic Data - Austral Grid



**PASMINCO
EXPLORATION**

A Division of Pasminco Australia Limited,
A.C.N. 004 074 962

Old Burnie Railway Station
Burnie, Tasmania 7320
G.P.O. Box 886
Burnie, Tasmania 7320

MEMORANDUM

TO: Mark Saxon
FROM: Paul Basford
DATE: 15 January 1995
SUBJECT: GROUND MAGNETICS - AUSTRAL GRID - OCEANA RL8809
FILE: EP/02/3011/8.4
pwb:95028

On 15 and 16 December 1994, ground magnetic data was collected over the Austral grid. Data was recorded using Broken Hill's rapid read magnetometer. Diurnal variations were recorded using an OMNI IV magnetometer, also owned by Broken Hill. Sampling along lines was conducted at a rate of two readings per second, with grid pegs every 20m used as location points. Grid line separation was 100m. A total of 10.3 line km was recorded along 18 lines.

Minor cultural features were encountered, most of which have been removed from the data. However, sections of some lines still contain cultural responses or the affects of culture. Previous workings with iron leaching did not appear to affect survey results.

There are four significant features evident in the magnetic data. The first is the large magnetic low located west of the Zeehan smelter dump. Aeromagnetic data only indicated a high where the dump is, however, due to the depth limited source, the ground magnetic response from the dump includes a low surrounding it. Modelling using POTENT has adequately explained the low to be caused by the dump site.

The second feature is a dramatic decrease in background response on the eastern edge of the northern lines. This feature has been interpreted to be associated with the Balustrup fault.

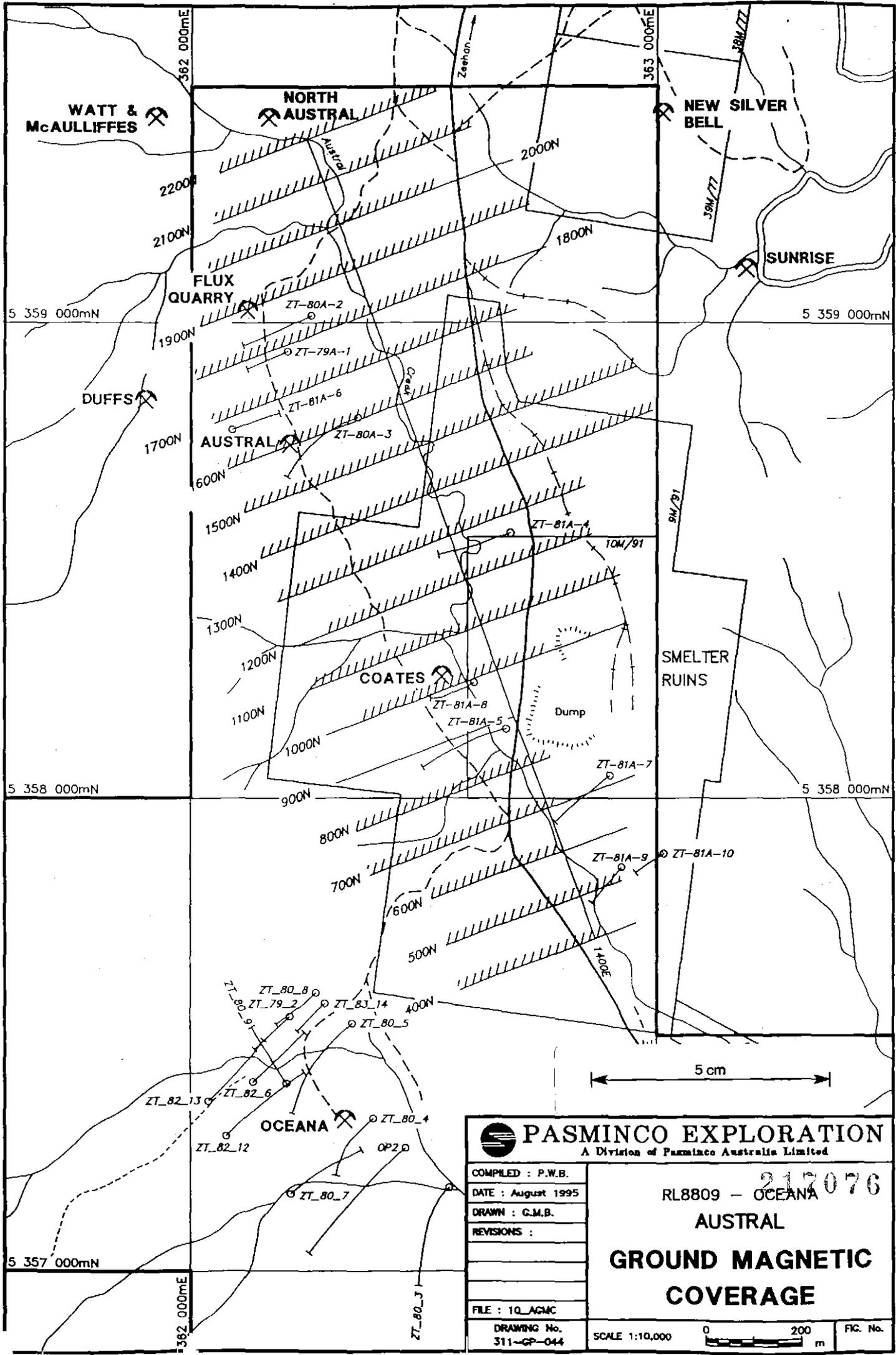
A third 'feature' is the absence of any fault or change in lithology in the north western quadrant of the survey area. Although this region contained numerous cultural features causing data to be severely stripped, there is no evidence for an east-west fault cutting out the Gordon limestone unit. The only response observed is an increase in background response on the very western edge of the lines, believed to be from the Crimson Creek formation. Thus it is inferred that the Gordon Limestone wedges out against the Balustrup fault to the north, not faulted out by Crimson Creek formation as previously thought.

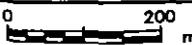
The last feature is the numerous strike extensive 10 to 15nT linear magnetic anomalies observed throughout the grid. One of these anomalies appears to be associated with the Austral mineralised horizon. Another anomaly is in the line of strike but south of North Austral. Three strike extensive linear anomalies east of Austral appear to be untested and are also along strike from North Austral. Several drill holes have been collared close to the anomalies but are drilled away from them.

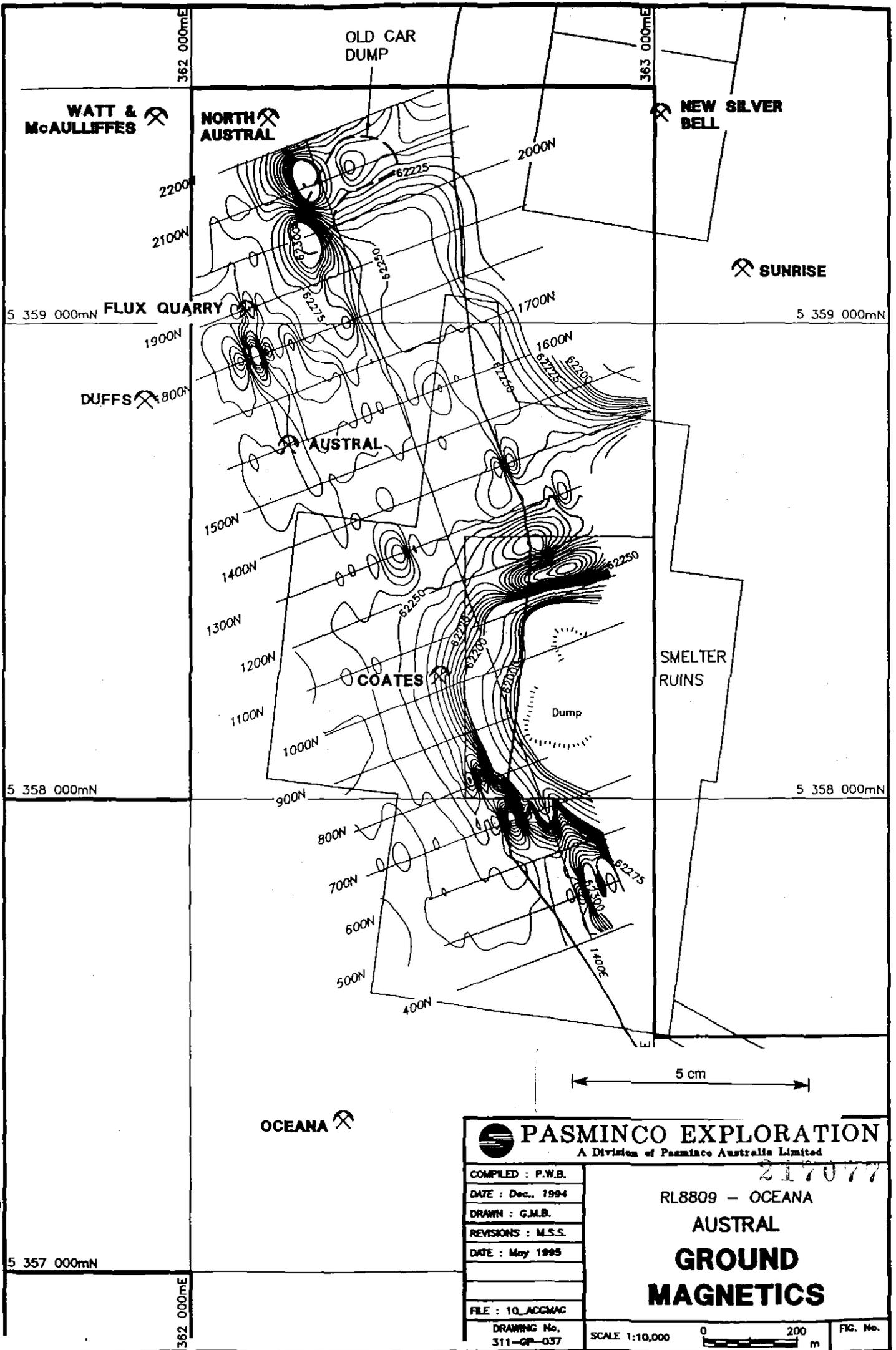
Three other groups of anomalies are also untested. The first group is further east from the three explained above. No previous mineralisation appears to have been intersected in the area by the limited amount of drilling. The second is southwest of the Zeehan dump area, along strike but significantly south of Coates. A third linear anomaly is west of Austral.

All untested zones should be assessed for prospectivity in relation to results from the upcoming aircore program. All linear magnetic anomalies are of shallow depth.

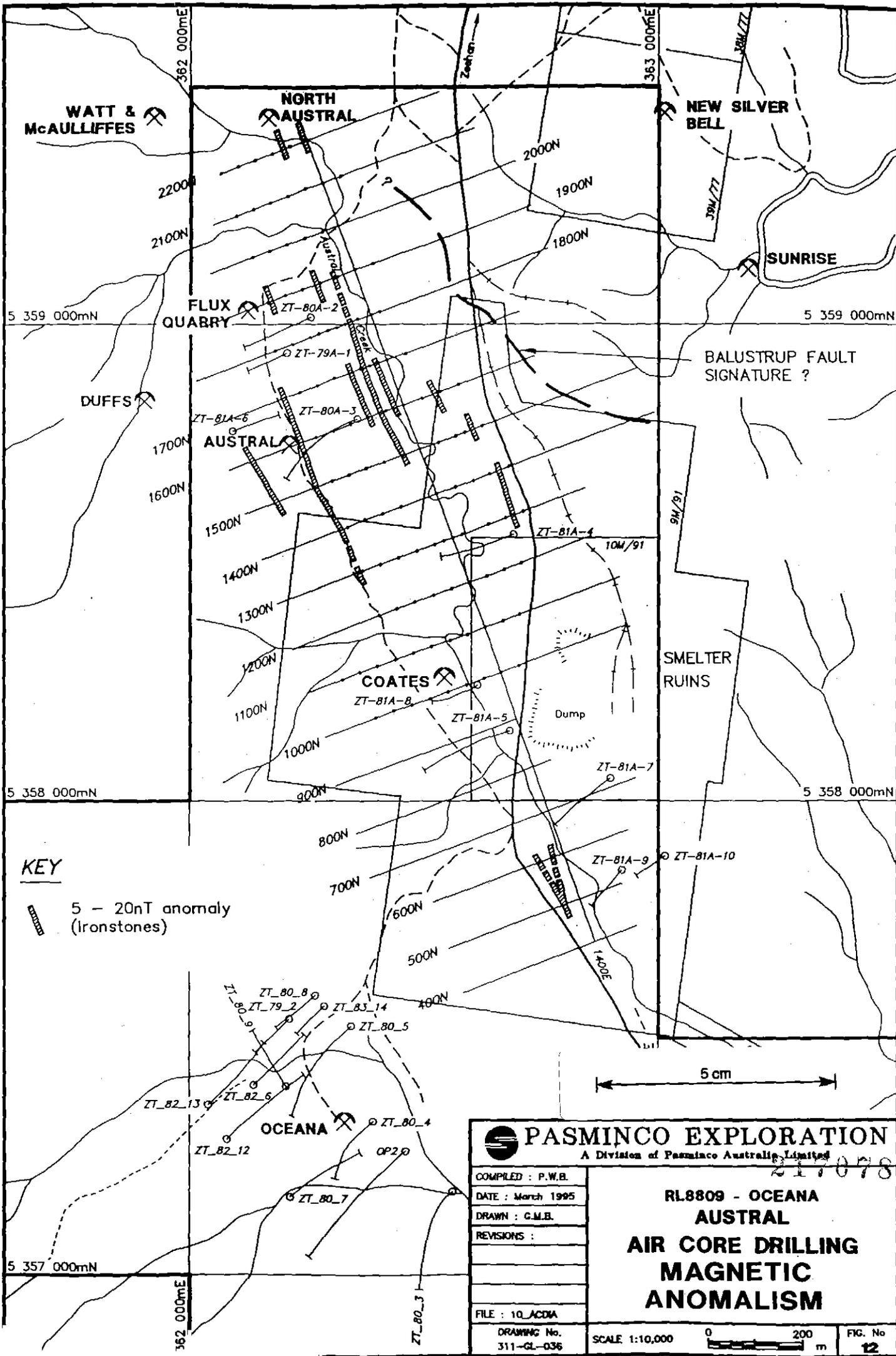
Paul Basford



 PASMINCO EXPLORATION A Division of Pasminco Australia Limited		RL8809 - OCEANA 212076 AUSTRAL GROUND MAGNETIC COVERAGE
COMPILED : P.W.B.		
DATE : August 1995		
DRAWN : G.M.B.		
REVISIONS :		
FILE : 10_LAGMC		
DRAWING No. 311-GP-044	SCALE 1:10,000	 0 200 m
		FIG. No.

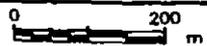


 PASMINCO EXPLORATION A Division of Pasminco Australia Limited		217077 RL8809 - OCEANA AUSTRAL GROUND MAGNETICS
COMPILED : P.W.B.		
DATE : Dec., 1994		
DRAWN : G.M.B.		
REVISIONS : M.S.S.		
DATE : May 1995		
FILE : 10_ACCMAC		
DRAWING No. 311-GP-037	SCALE 1:10,000	
		FIG. No.



KEY

 5 - 20nT anomaly (Ironstones)

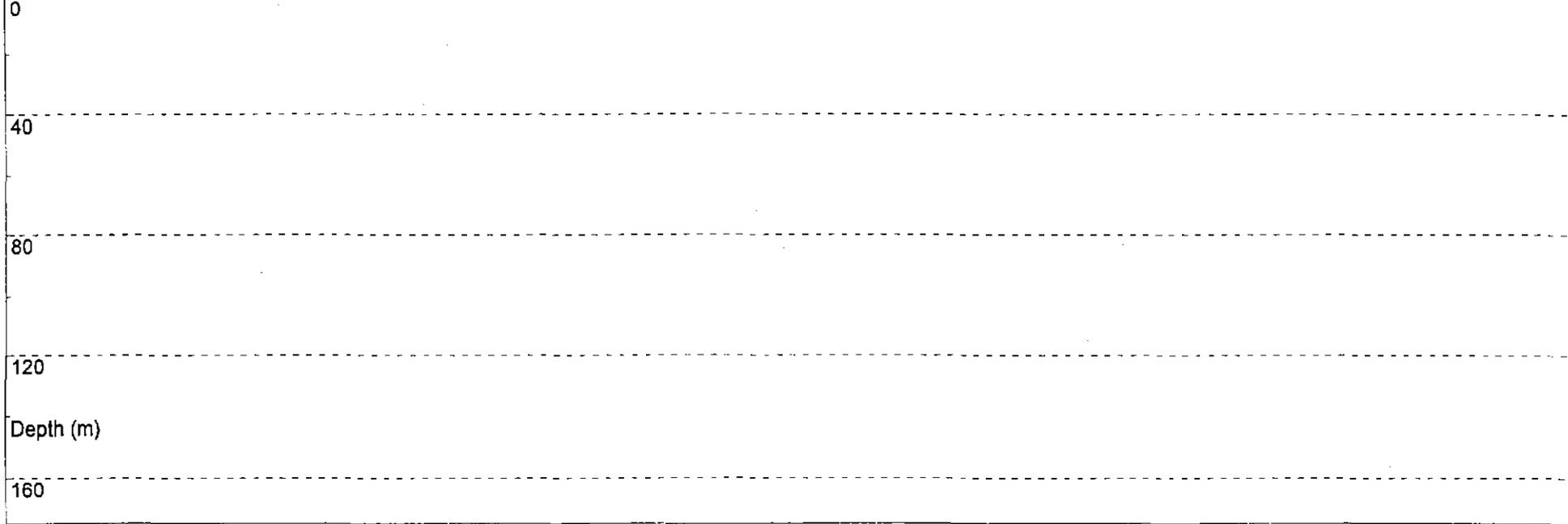
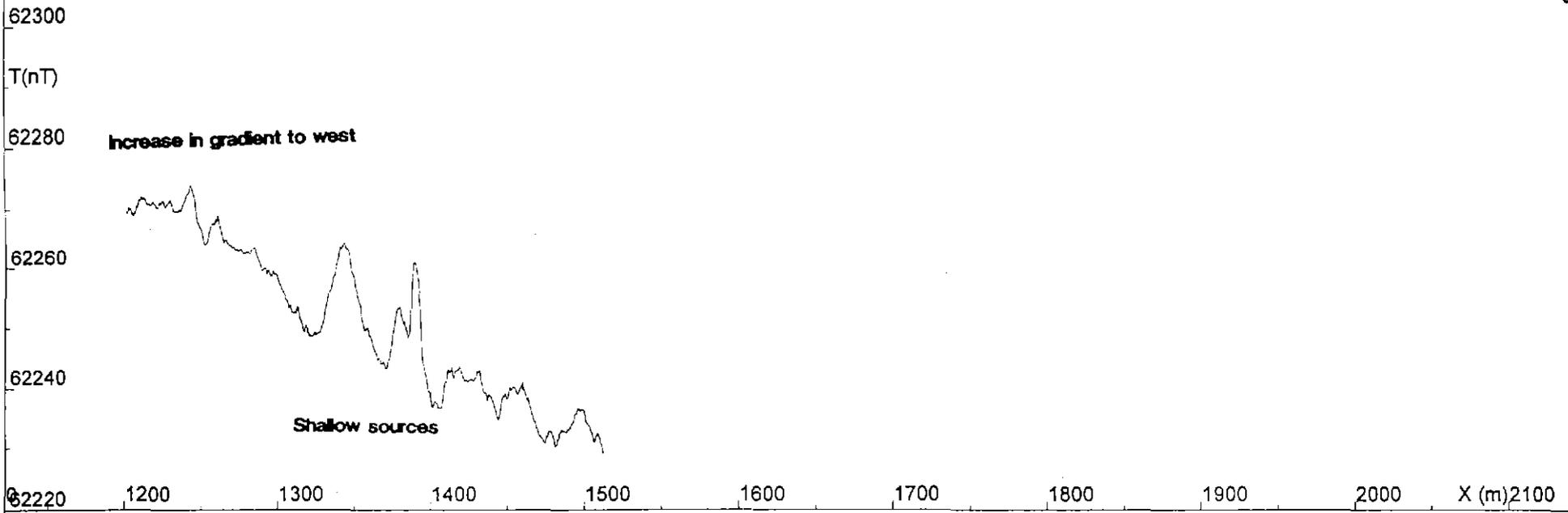
 PASMINCO EXPLORATION A Division of Pasma Australia Limited		217078 RL8809 - OCEANA AUSTRAL AIR CORE DRILLING MAGNETIC ANOMALISM
COMPILED : P.W.B. DATE : March 1995 DRAWN : G.M.B. REVISIONS :		
FILE : 10_ACDIA		SCALE 1:10,000 
DRAWING No. 311-GL-036		

217079

PROCESSED

DATA

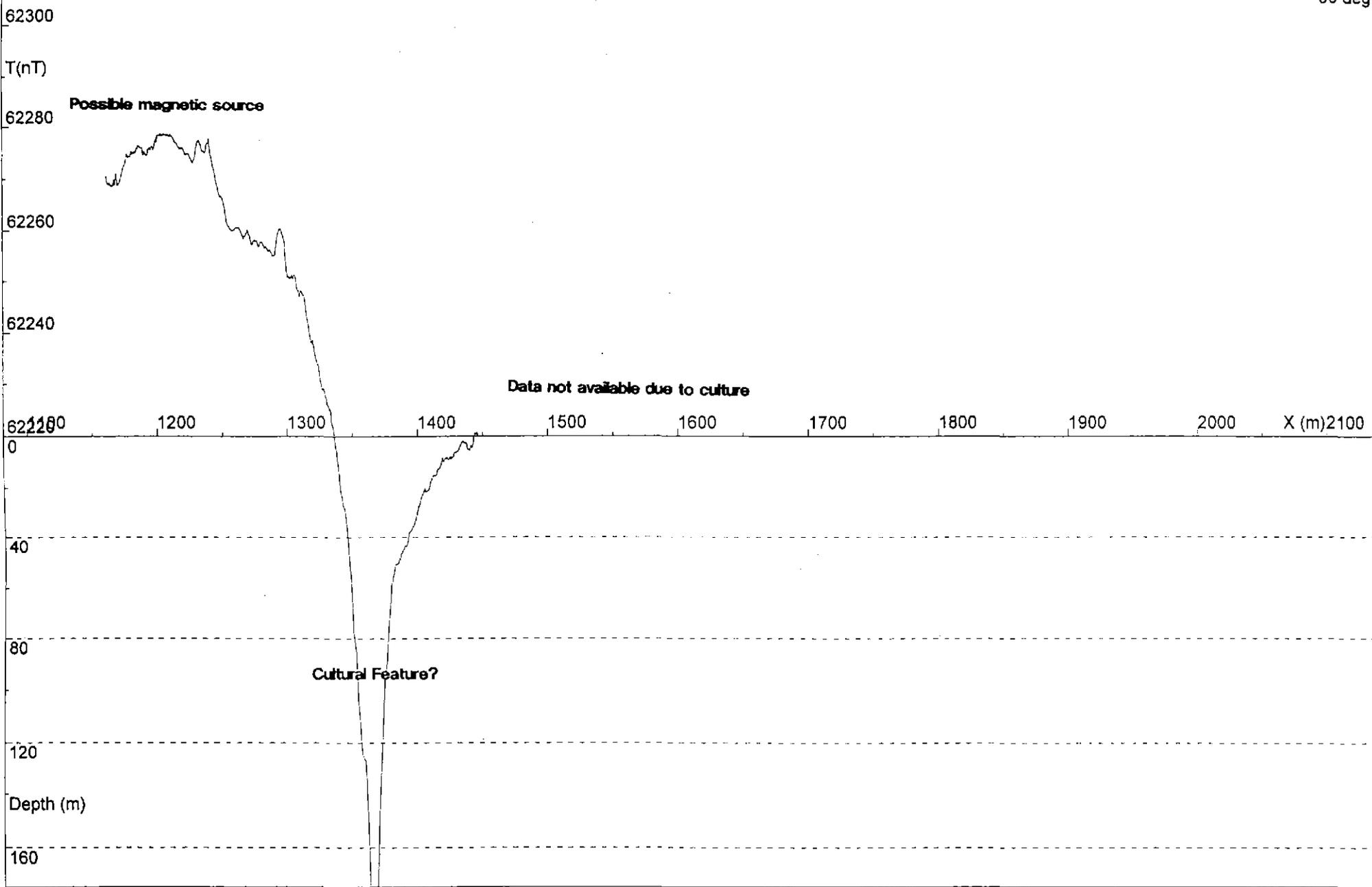
90 deg



Observations: Oceana Ground Magnetics - Processed **Austral grid**
Profile #1: 2200
Model:

217080

90 deg

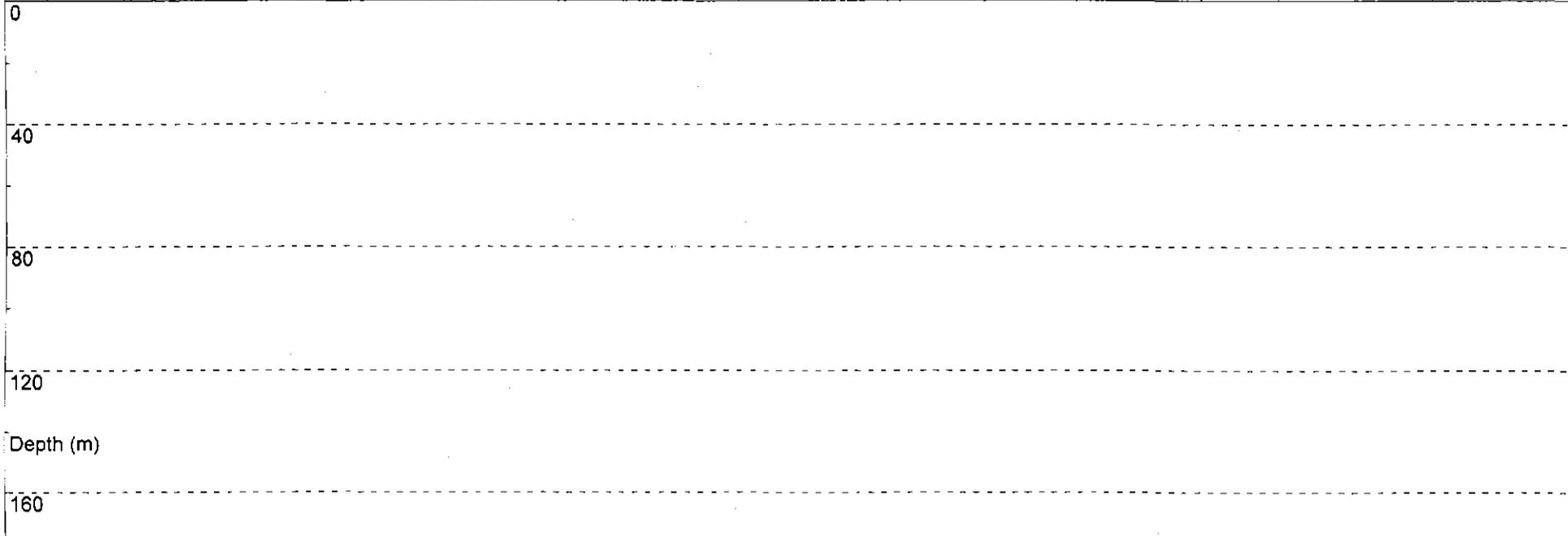
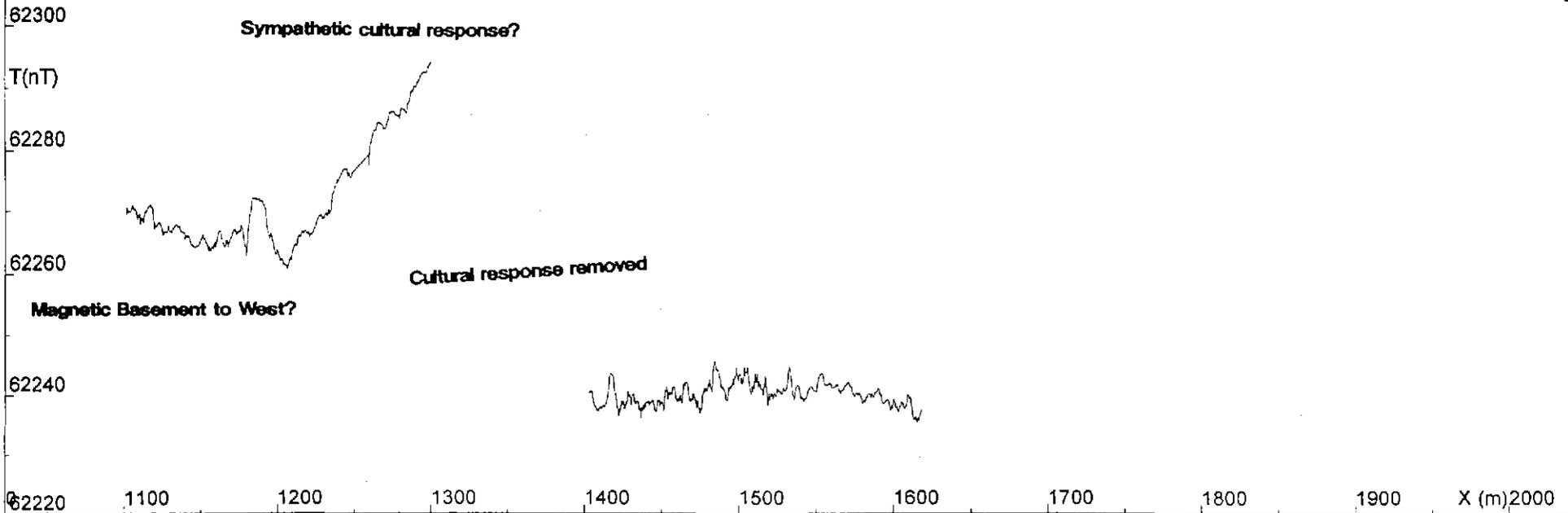


Observations: Oceana Ground Magnetics - Processed
Profile #2; 2100
Model:

Austral grid

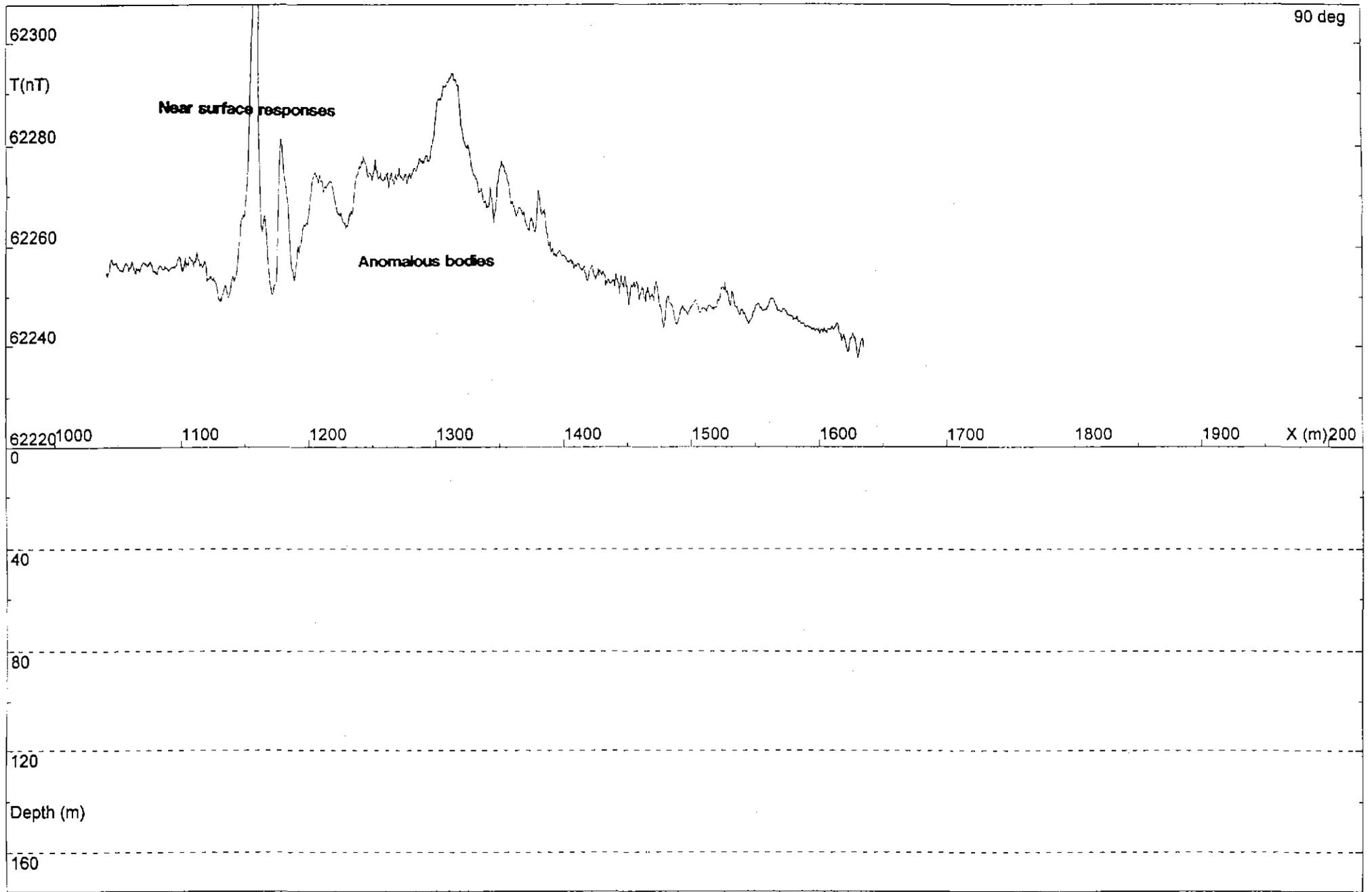
217081

90 deg



Observations: Oceana Ground Magnetics - Processed Austral grid
Profile #3: 2000
Model:

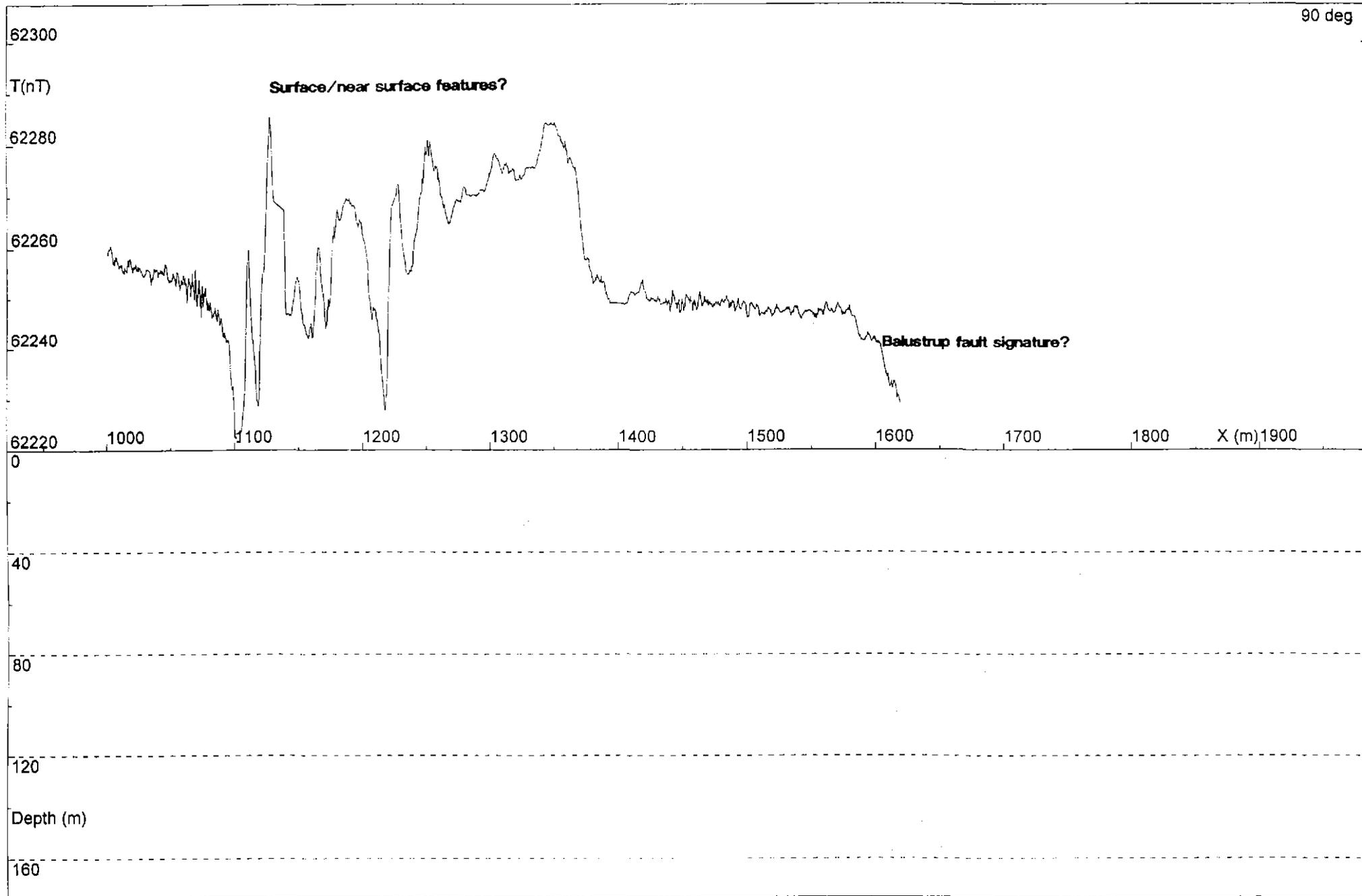
217082



Observations: Oceana Ground Magnetics - Processed
Profile #4: 1900
Model:

Austral grid

217083

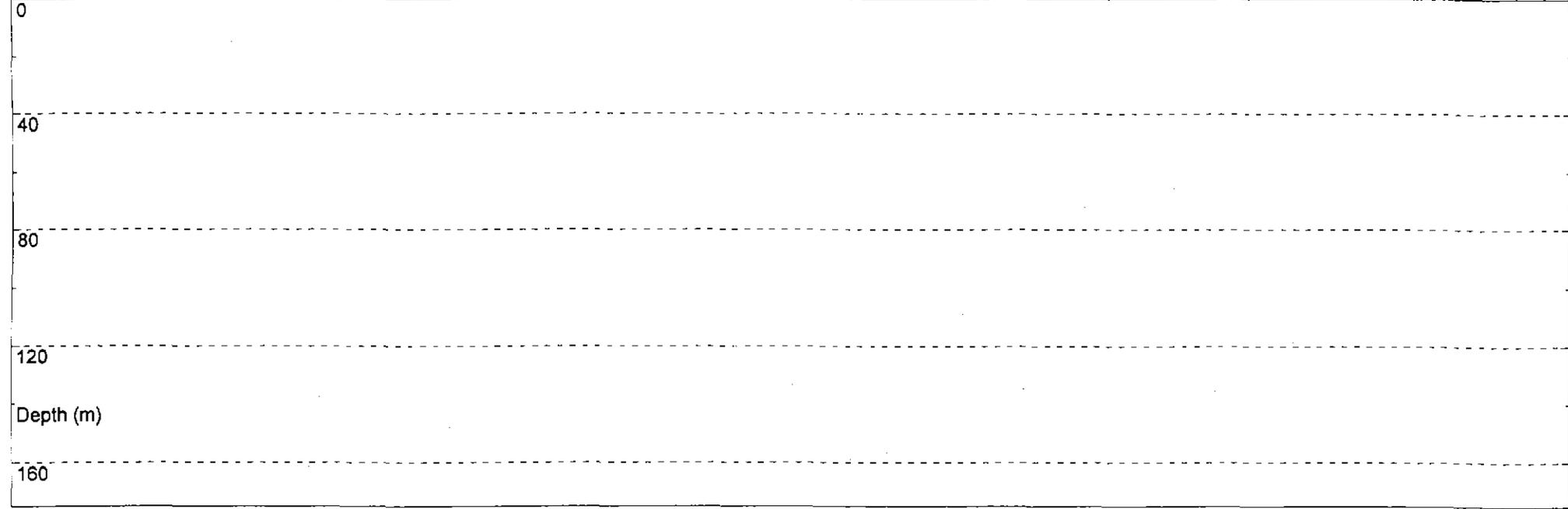
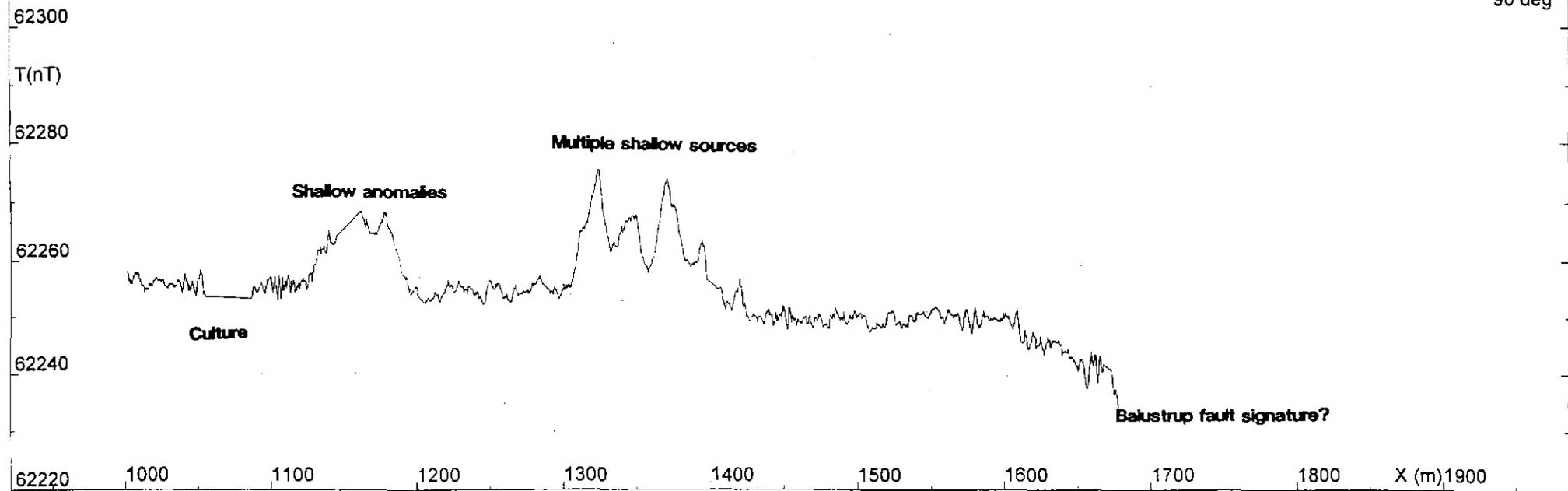


Observations: Oceana Ground Magnetics - Processed
Profile #5: 1800
Model:

Austral grid

217084

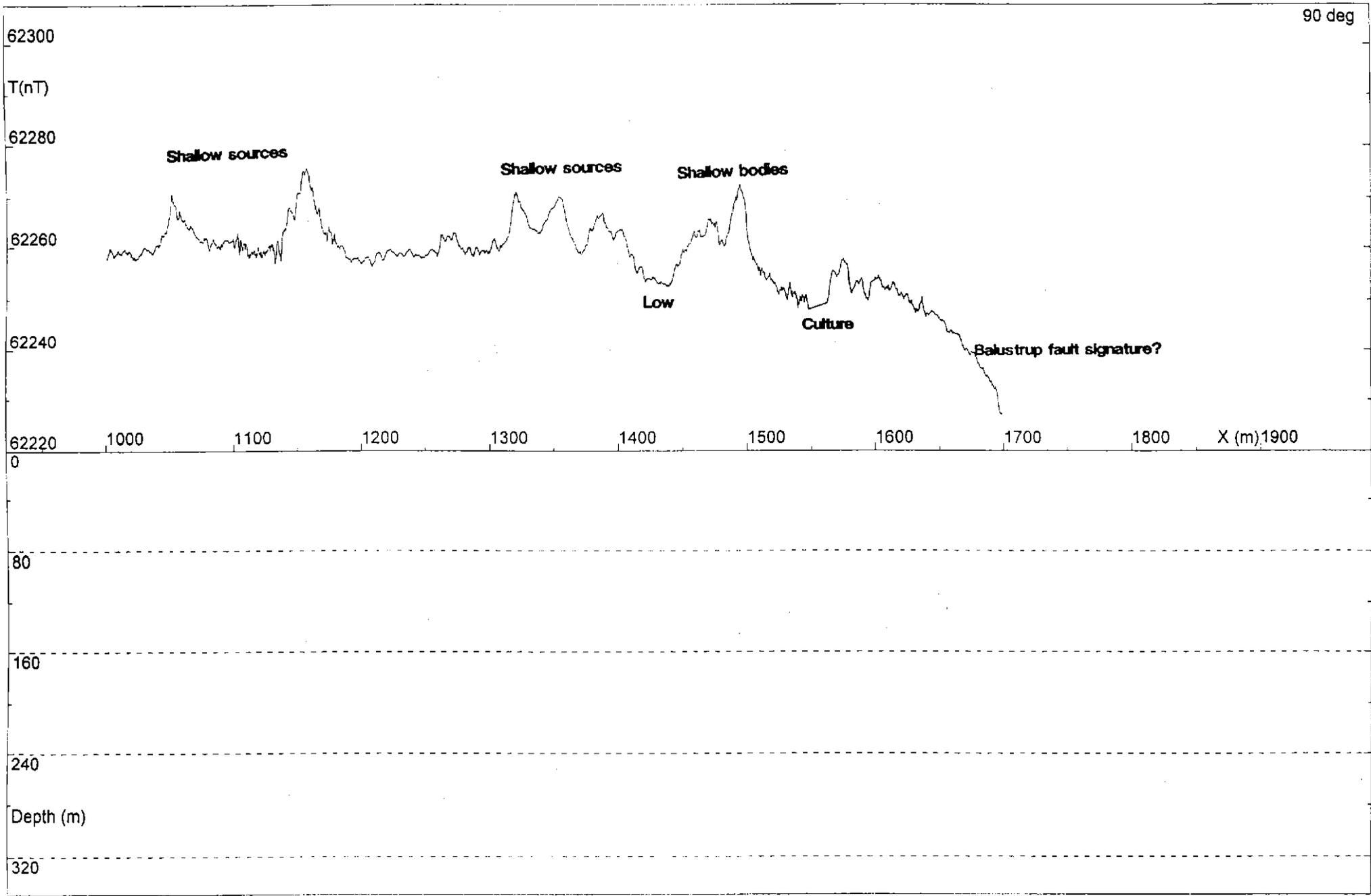
90 deg



Observations: Oceana Ground Magnetics - Processed
Profile #6; 1700
Model:

Austral grid

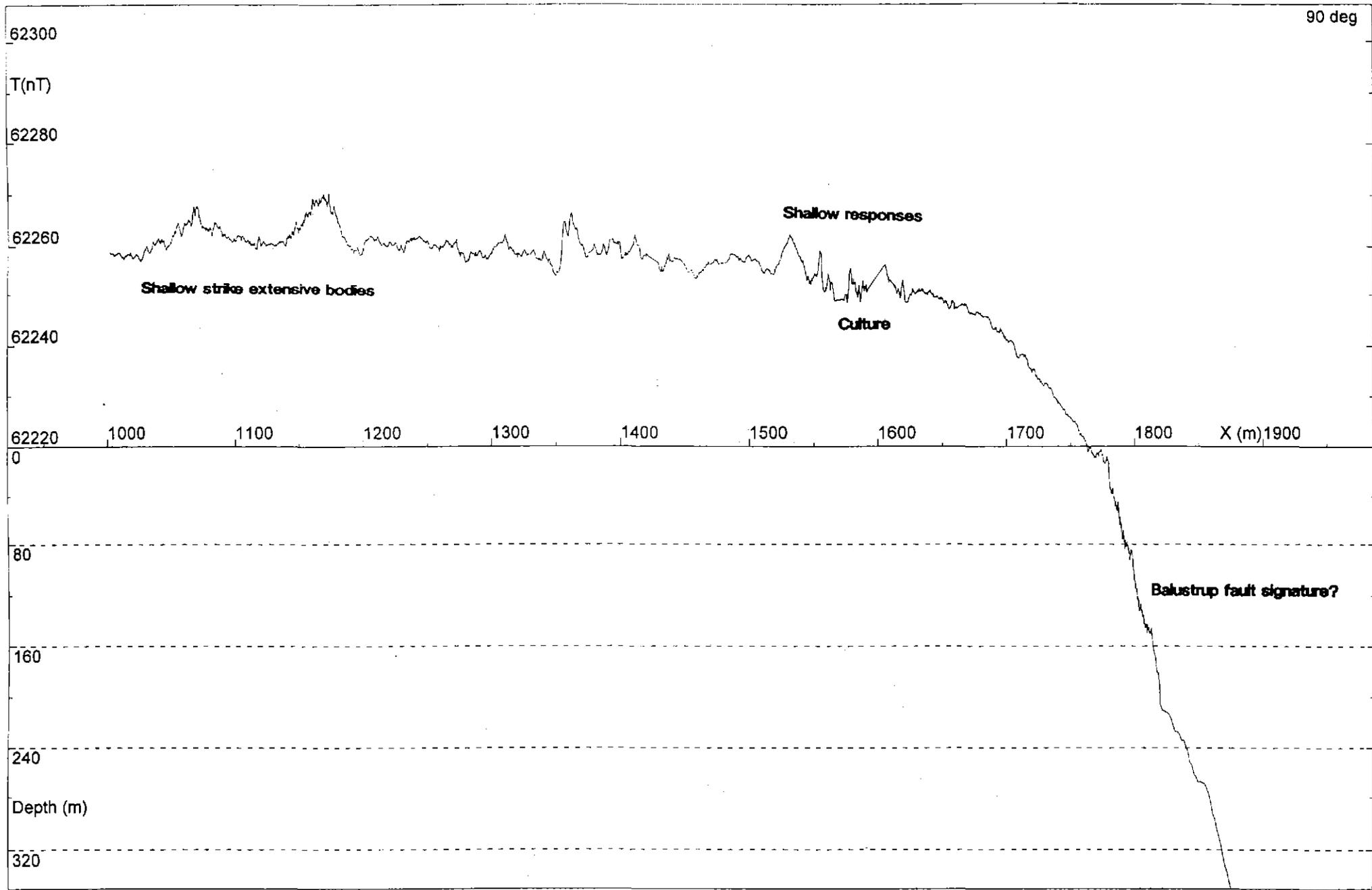
217085



Observations: Oceana Ground Magnetics - Processed
Profile #1: 1600
Model:

Austral grid

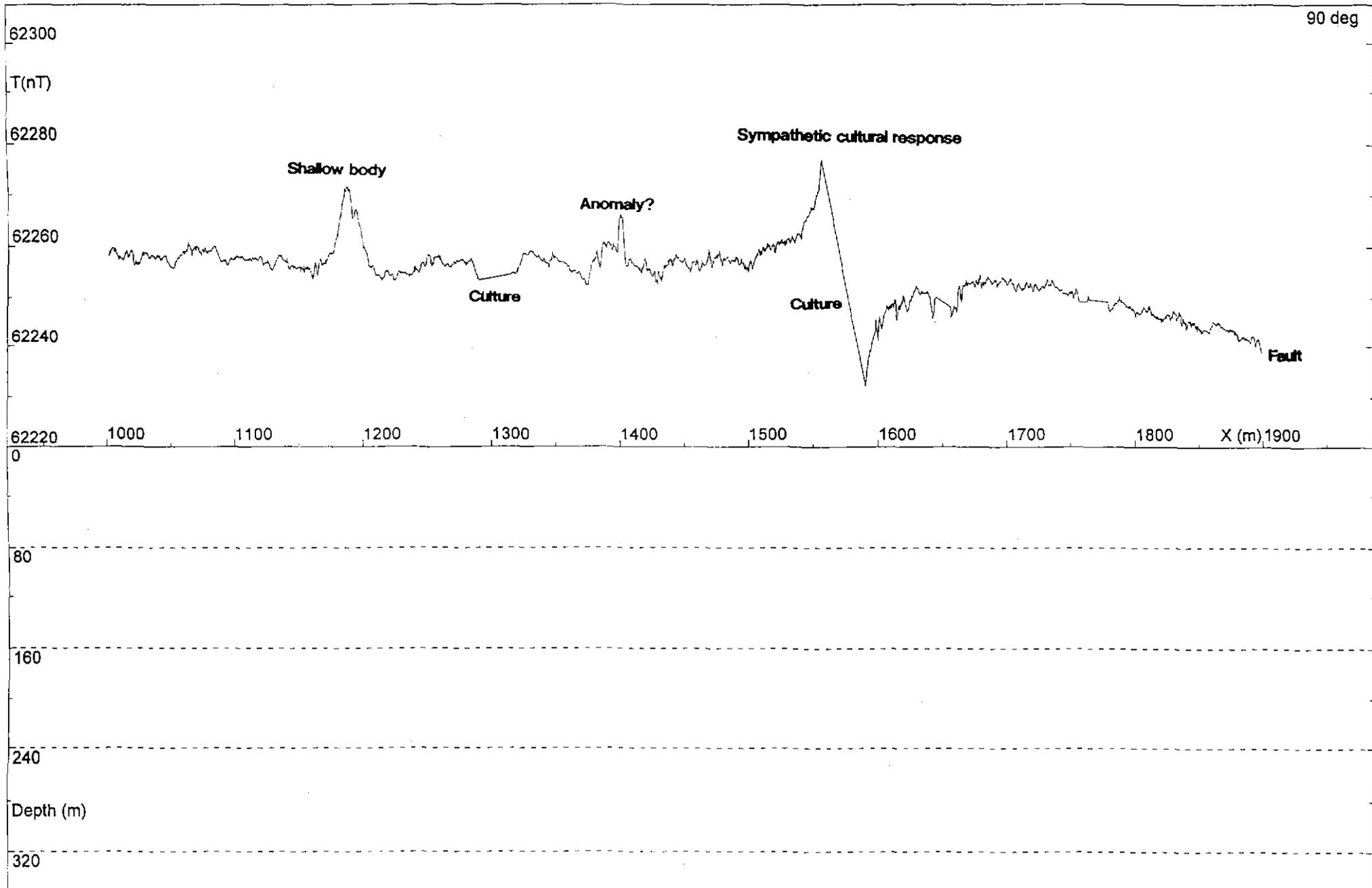
217086



Observations: Oceana Ground Magnetics - Processed
 Profile #2: 1500
 Model:

Austral grid

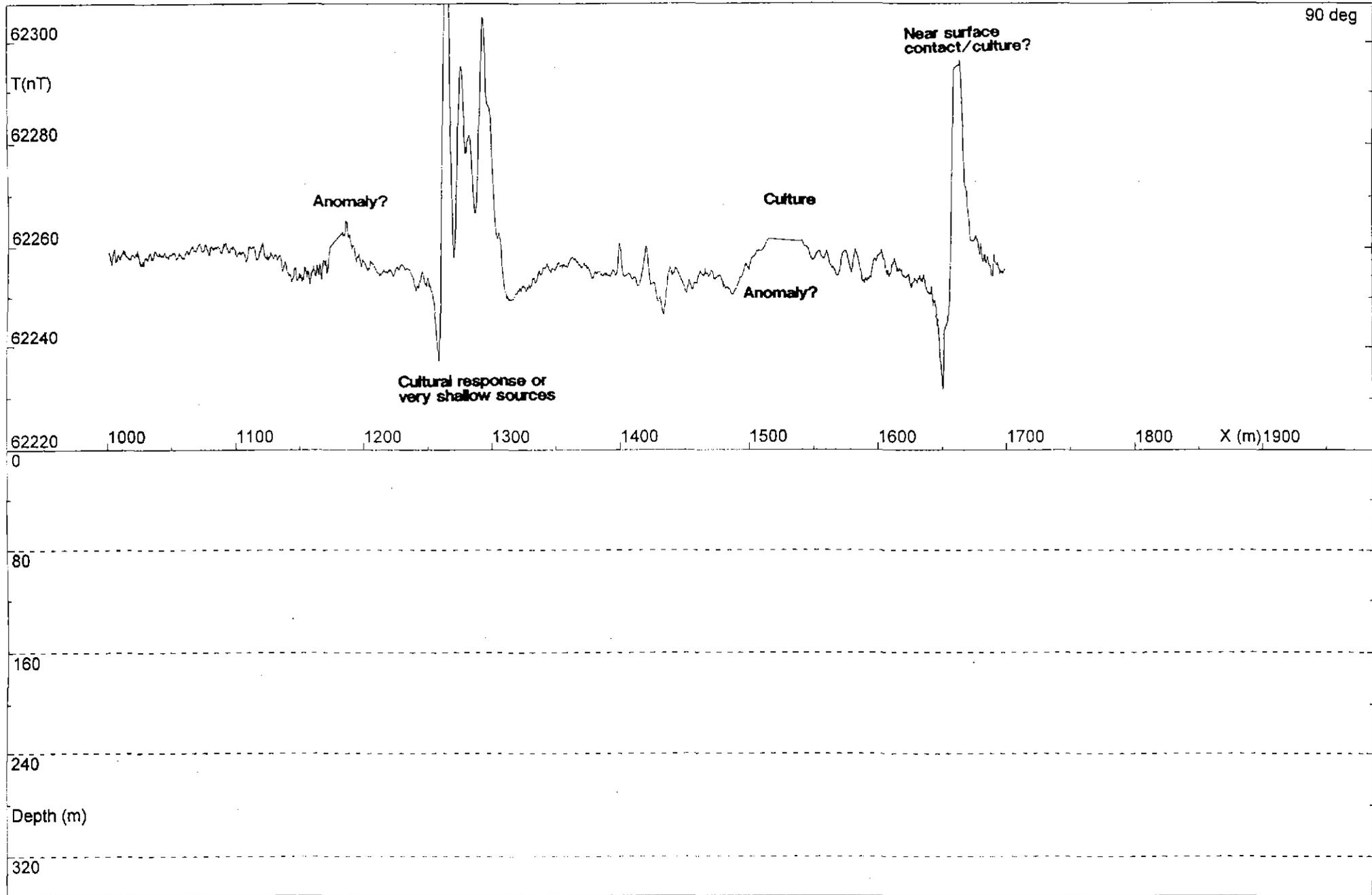
217087



Observations: Oceana Ground Magnetics - Processed
 Profile #3: 1400
 Model:

Austral grid

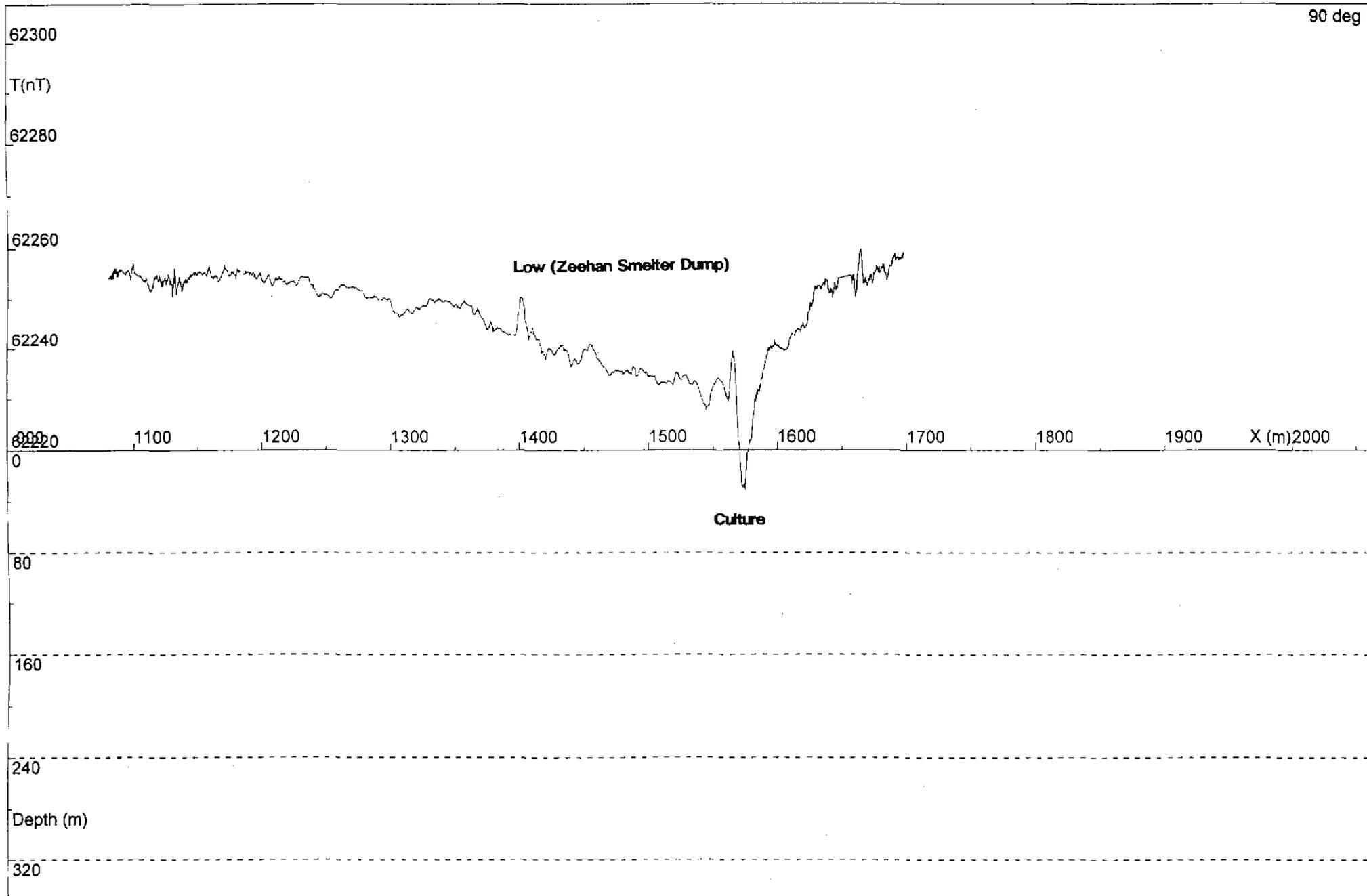
217088



Observations: Oceana Ground Magnetics - Processed
 Profile #2: 1300
 Model:

Austral grid

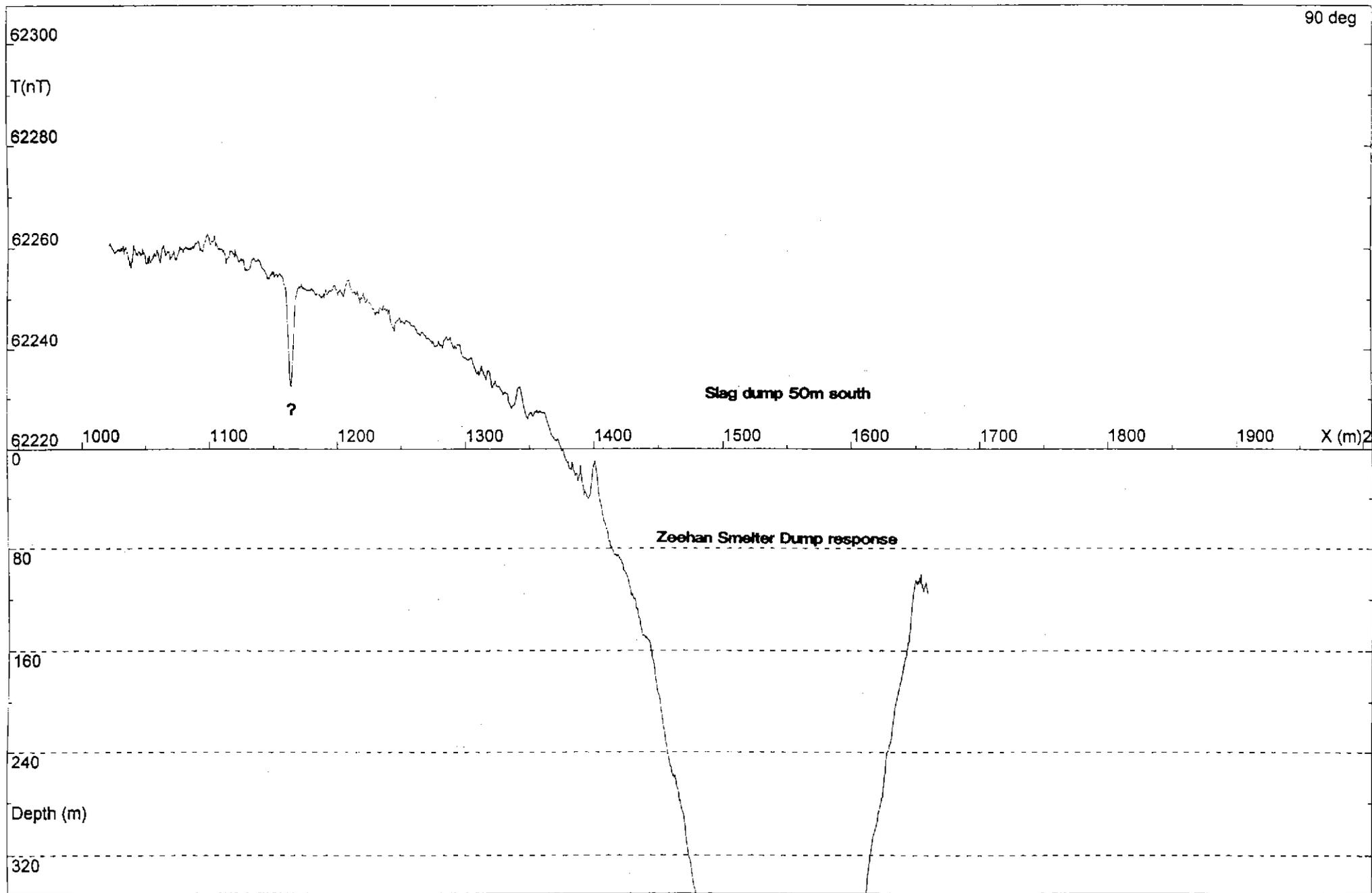
217089



Observations: Oceana Ground Magnetics - Processed
 Profile #3: 1200
 Model:

Austral grid

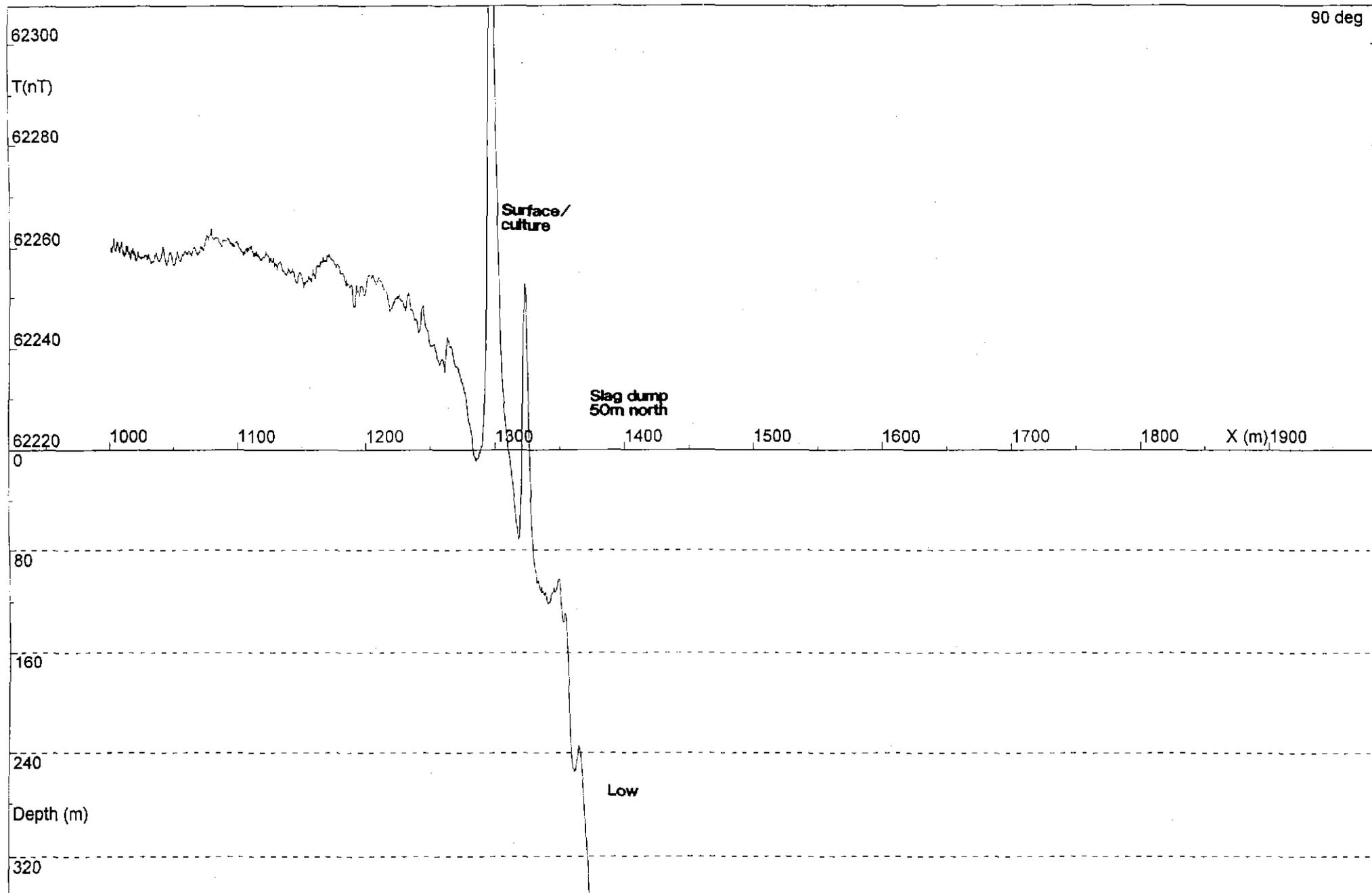
217030



Observations: Oceana Ground Magnetics - Processed
 Profile #1; 1100
 Model:

Austral grid

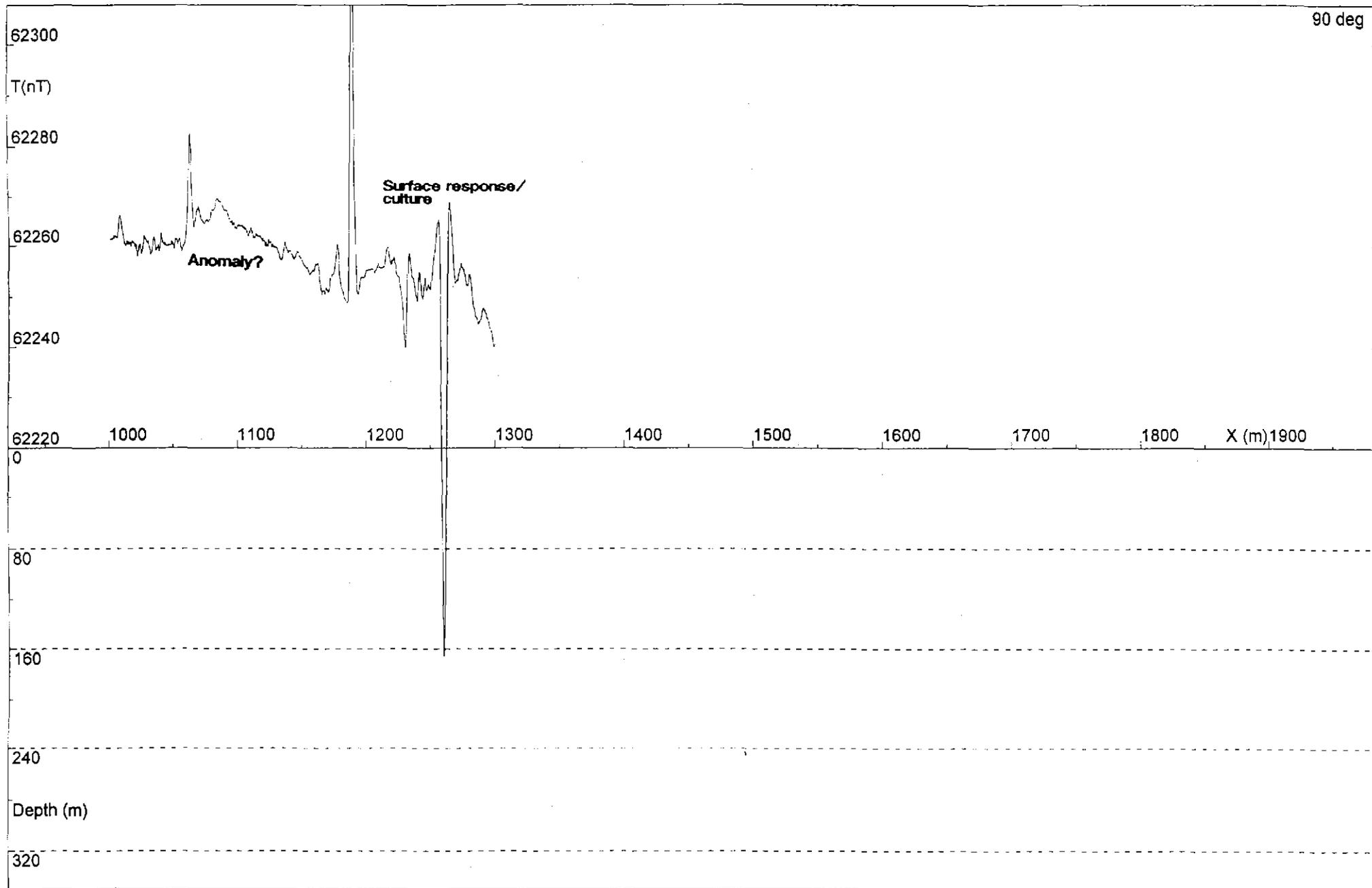
217091



Observations: Oceana Ground Magnetics - Processed
 Profile #3: 800
 Model:

Austral grid

217093

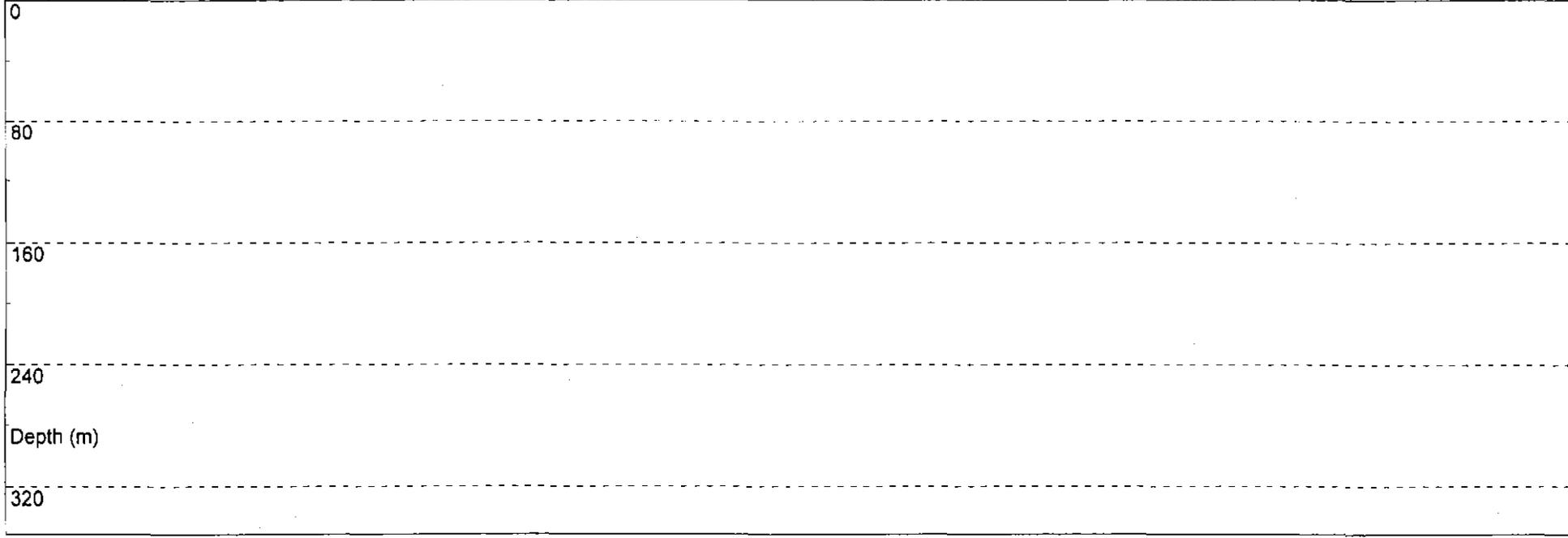
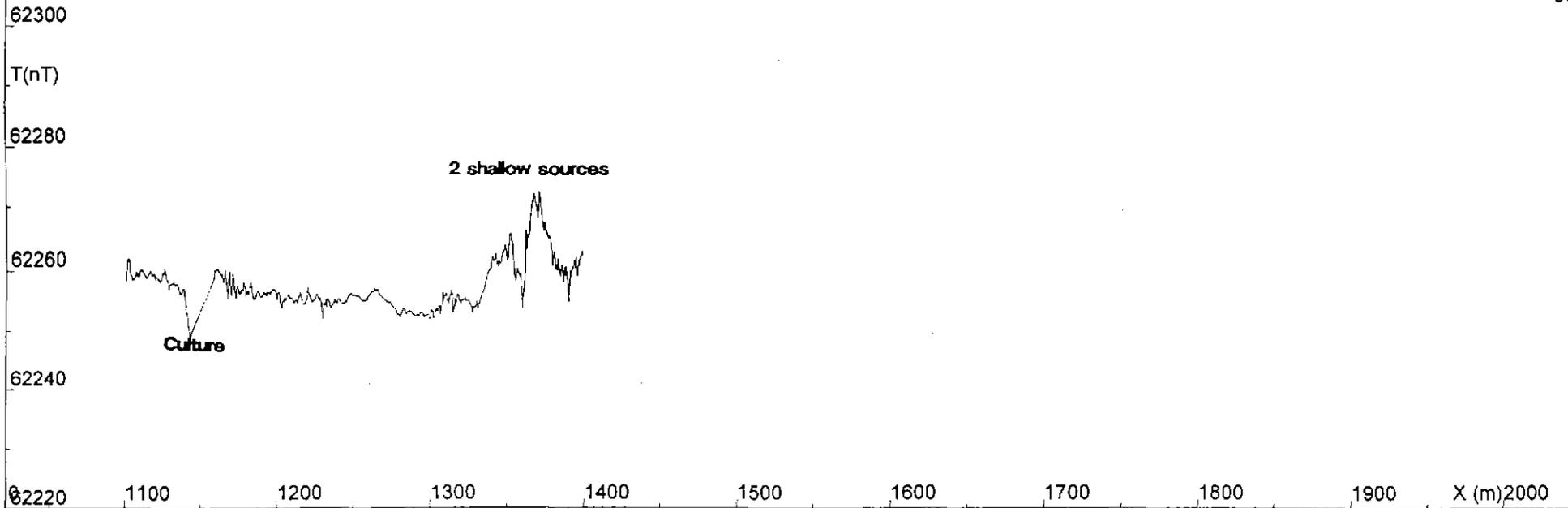


Observations: Oceana Ground Magnetics - Processed
 Profile #4: 700
 Model:

Austral grid

212094

90 deg

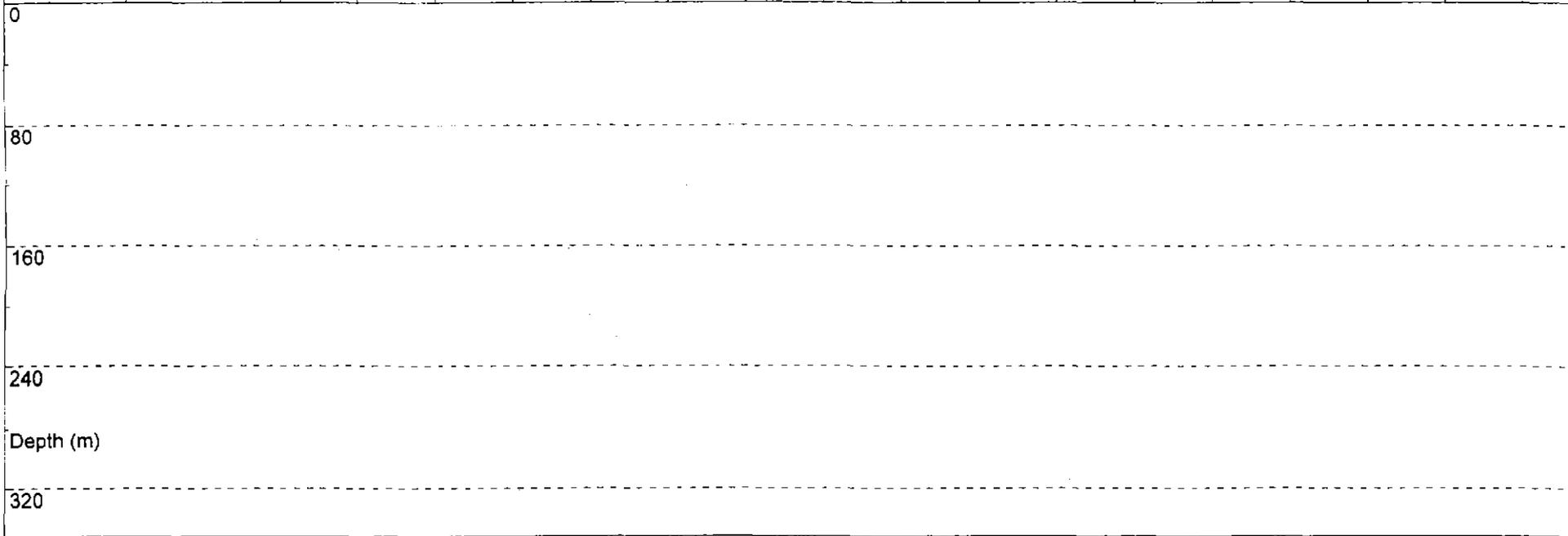


Observations: Oceana Ground Magnetics - Processed
Profile #5: 600
Model:

Austral grid

217005

90 deg



Observations: Oceana Ground Magnetics - Processed
Profile #6; 500
Model:

Austral grid

217096

90 deg

62300

T(nT)

62280

62260

62240

62220

1100

1200

1300

1400

1500

1600

1700

1800

1900

X (m) 2000

Deep basement response

0

80

160

240

Depth (m)

320

Observations: Oceana Ground Magnetics - Processed

Austral grid

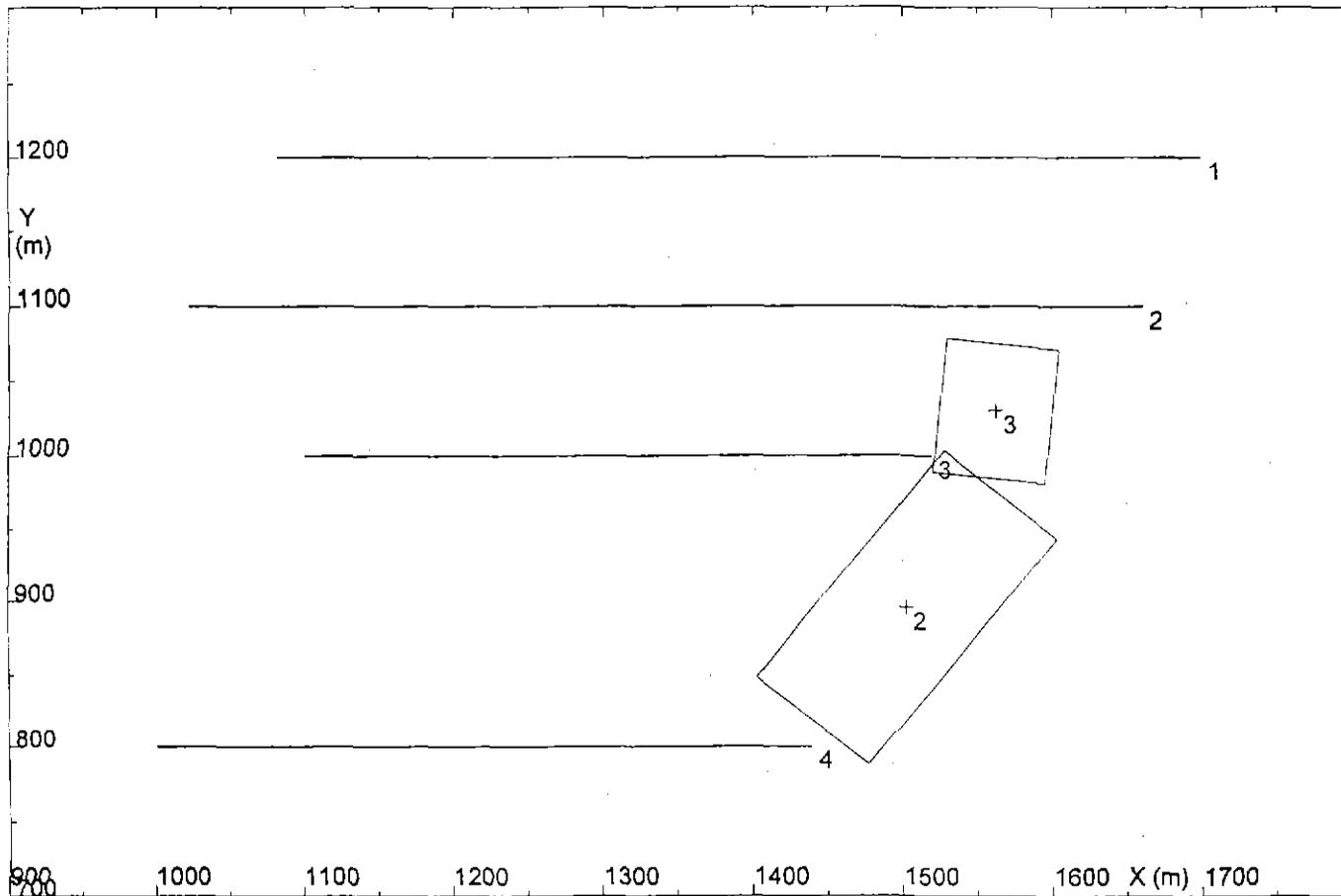
Profile #: 400

Model:

217007

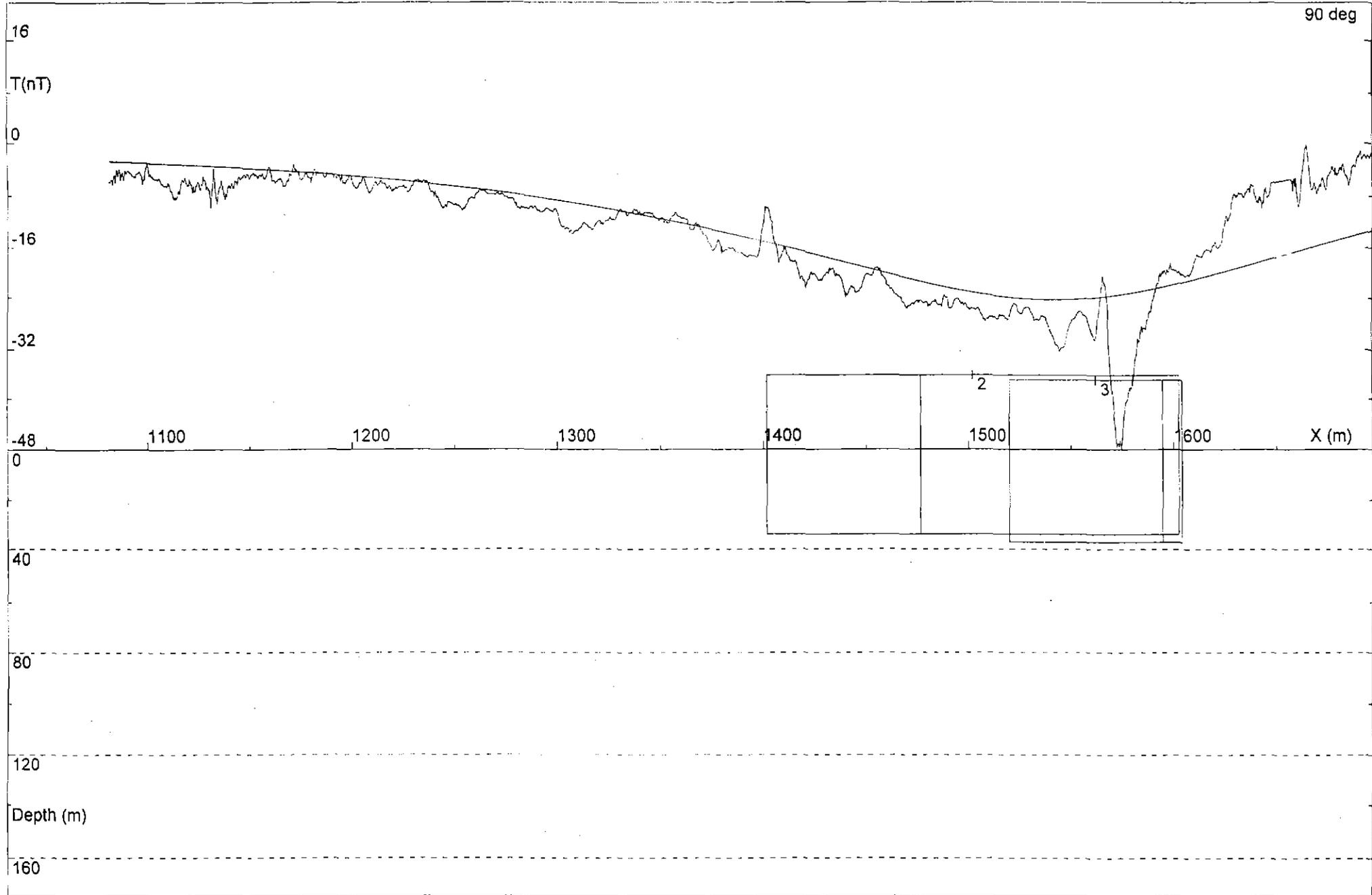
Zeehan Smelter Dump

Modelling



Observations: Oceana - Austral grid
Model: Zeehan Smelter Dump
POTENT v3.04 Plan drawn at 15:22 03/02/1995 for Pasminco Exploration

217099



90 deg

16

T(nT)

0

-16

-32

-48

0

40

80

120

Depth (m)

160

1100

1200

1300

1400

1500

1600

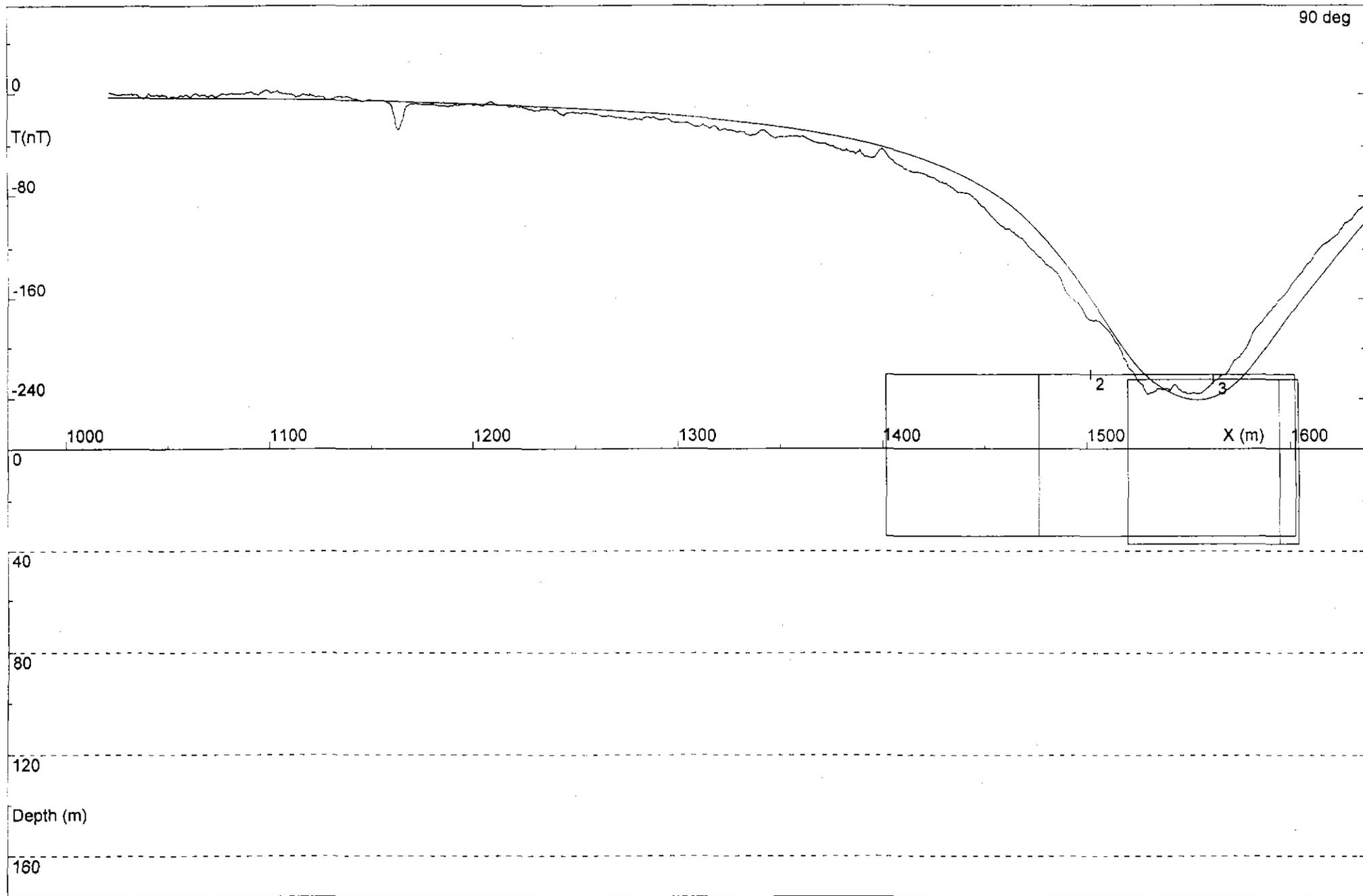
X (m)

2

3

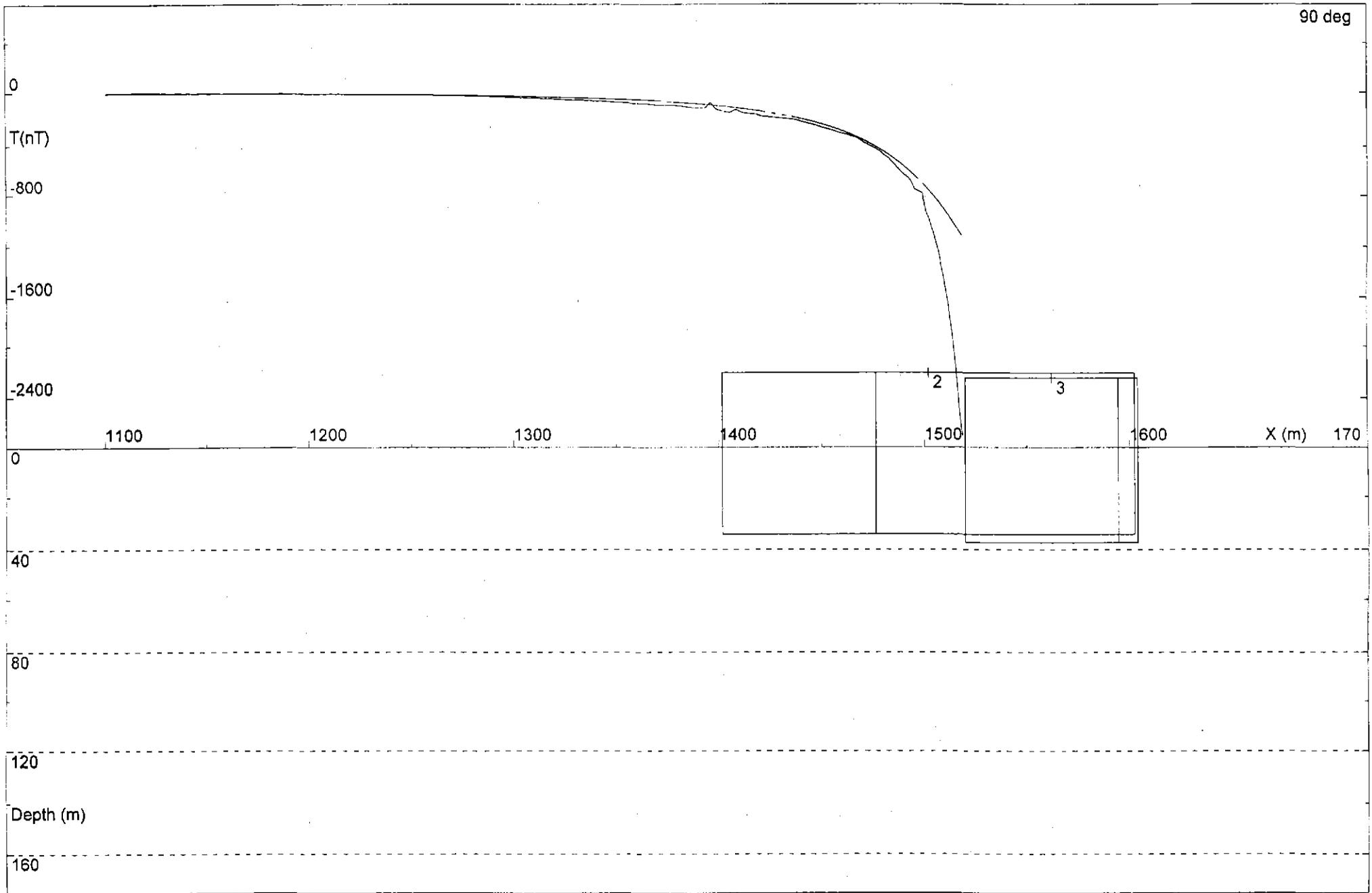
Observations: Oceana - Austral grid
 Profile #1: 1200
 Model: Zeehan Smelter Dump

217100



Observations: Oceana - Austral grid
 Profile #2: 1100
 Model: Zeehan Smelter Dump

217101



90 deg

0

T(nT)

-800

-1600

-2400

1100

1200

1300

1400

1500

1600

X (m)

170

0

40

80

120

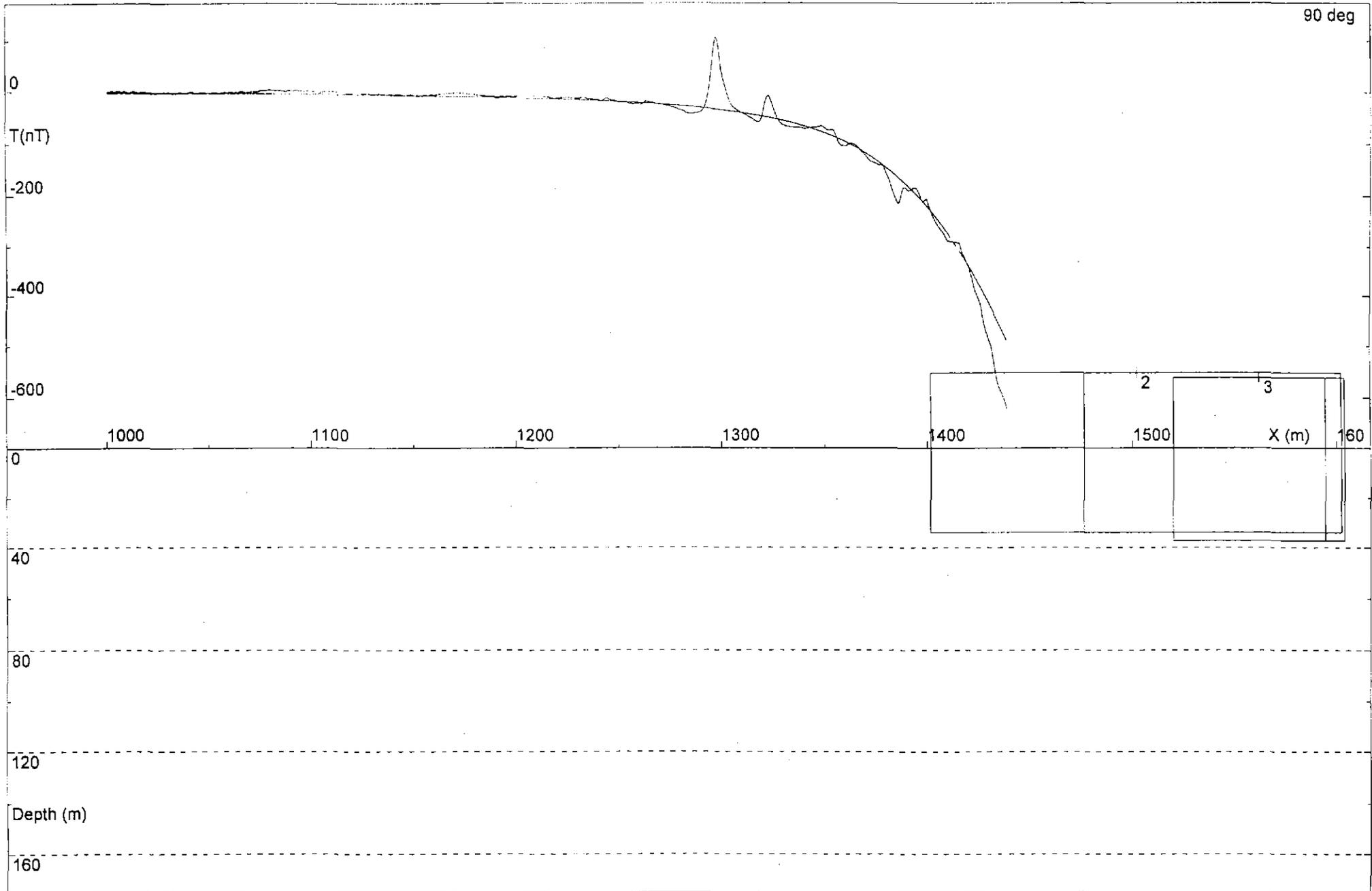
Depth (m)

160

Observations: Oceana - Austral grid
 Profile #3; 1000
 Model: Zeehan Smelter Dump

21/10/02

90 deg



Observations: Oceana - Austral grid
Profile #4; 800
Model: Zeehan Smelter Dump

217103

RAW

DATA

90 deg

62280

T(nT)

62270

62260

62250

62240

0

32000.00

10000

20000

48000.00

30000

P (m)

40000

X (m)

4000

8000

12000

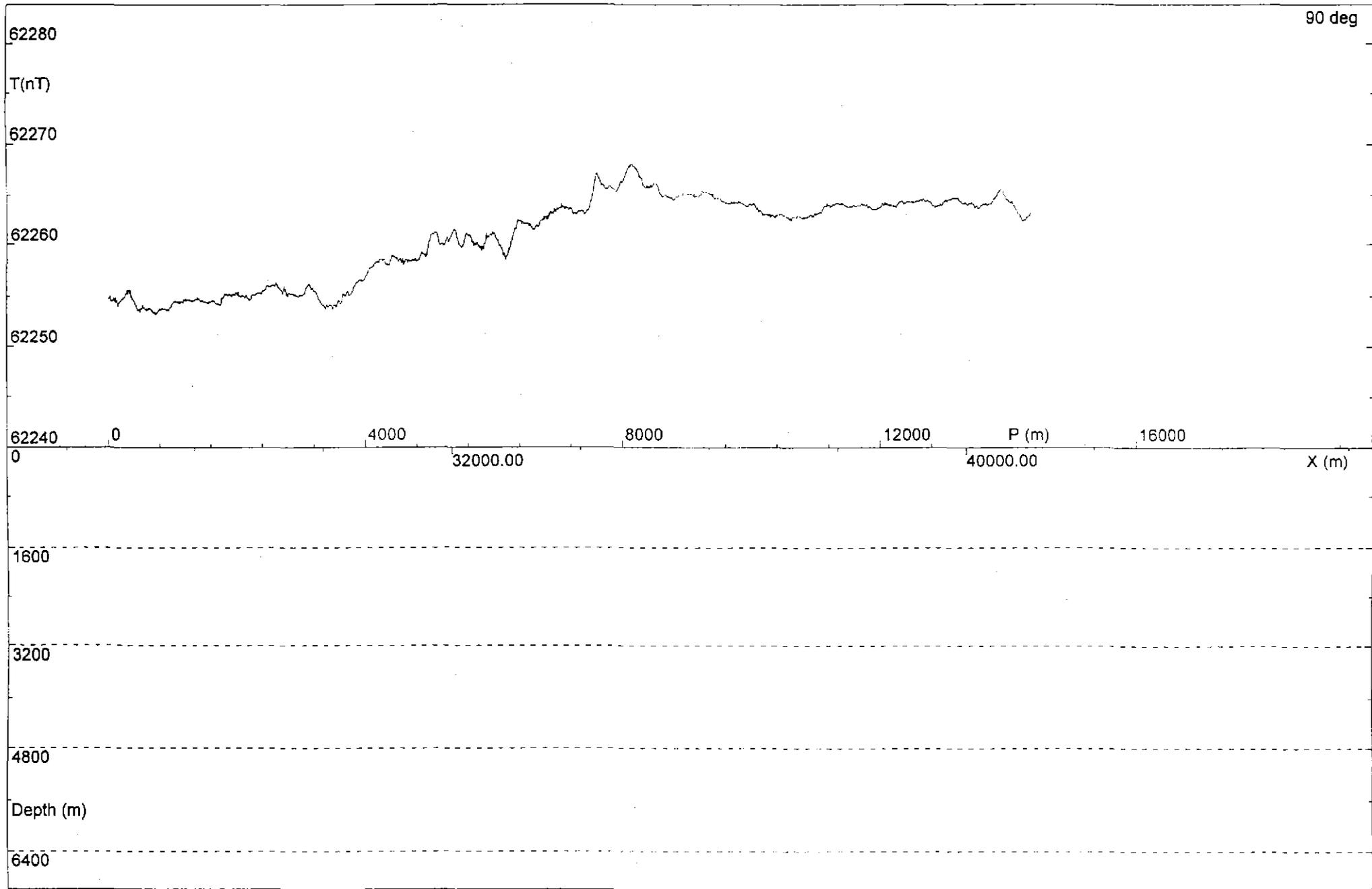
Depth (m)

16000

Observations: Base Station Data - Day 1 - Austral Grid (Oceana)

Relates to lines

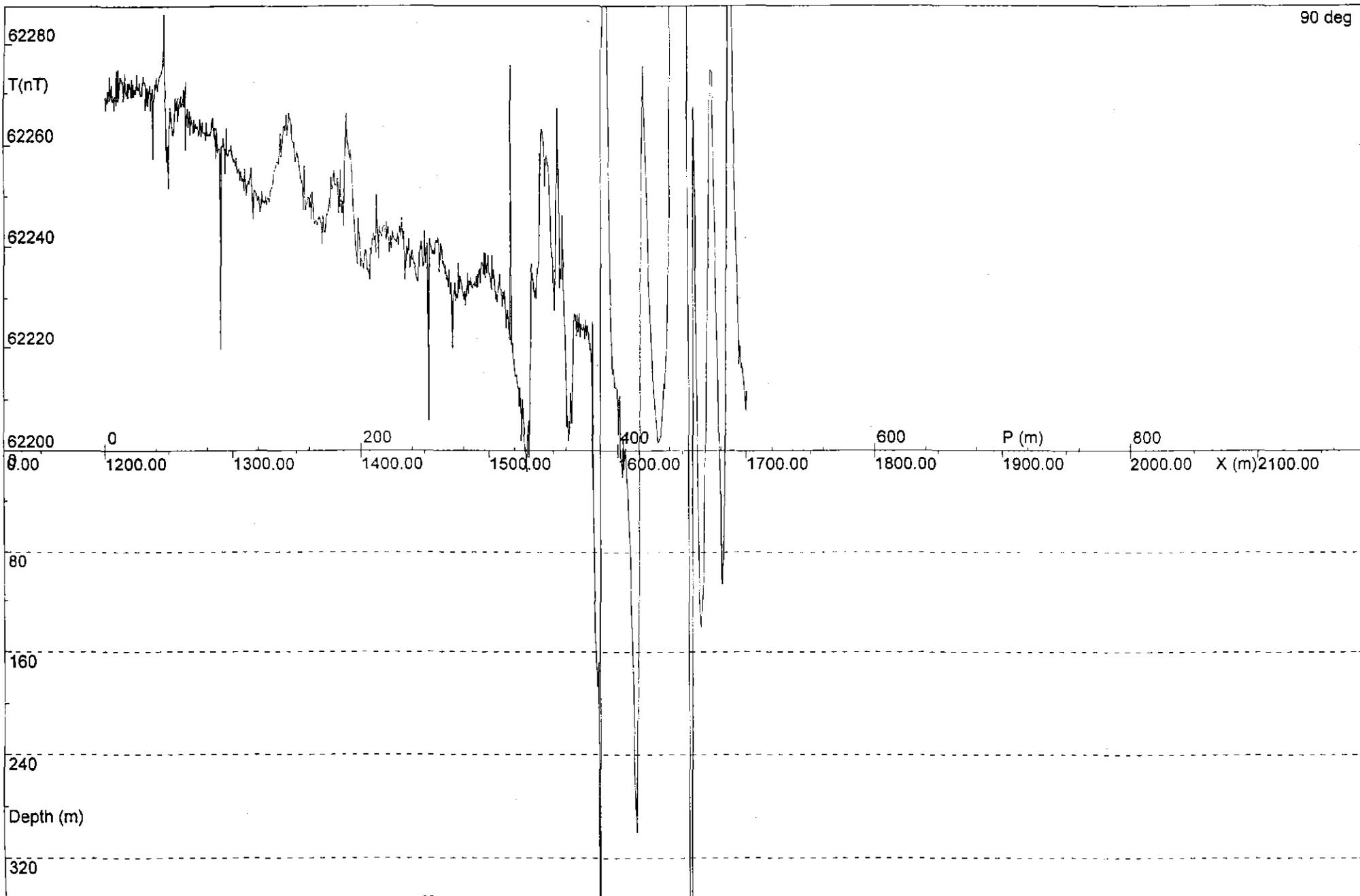
2200 2100 2000 1900 1800
1700 1600 1500 1400 1300 1200



Observations: Base Station - Day 2 - Austral Grid (Oceana)

Relates to lines 1100 1000 800
700 600 500 400

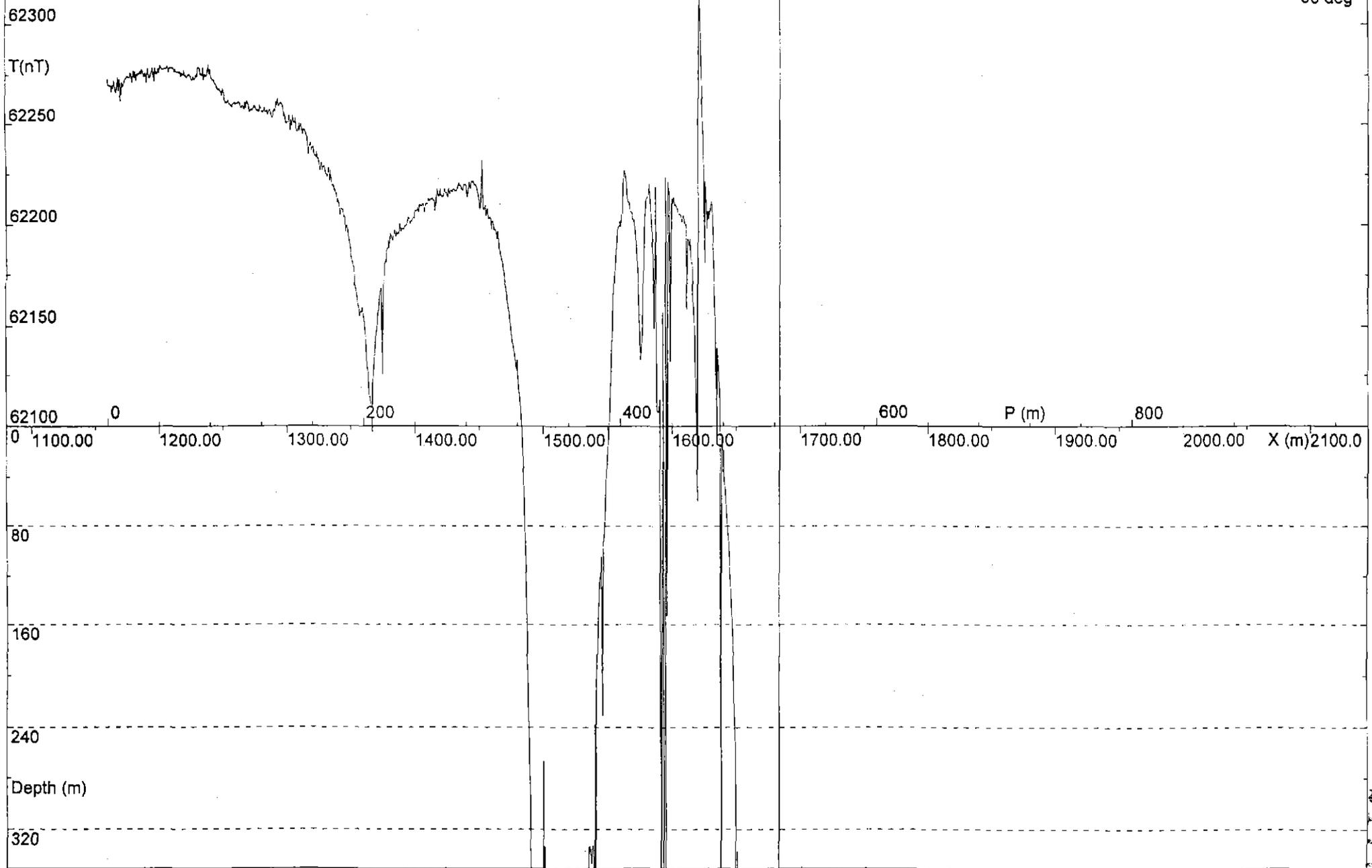
217106



Observations: Austral grid (Oceana)
 Profile #1; 2200N
 Model:

219107

90 deg



Observations: Austral grid (Oceana)
Profile #2; 2100N
Model:

217108

90 deg

62360

T(nT)

62320

62280

62240

62200

0 1100.00 1200.00 1300.00 1400.00 1500.00 1600.00 1700.00 1800.00 1900.00 2000.00

P (m)

X (m)

80

160

240

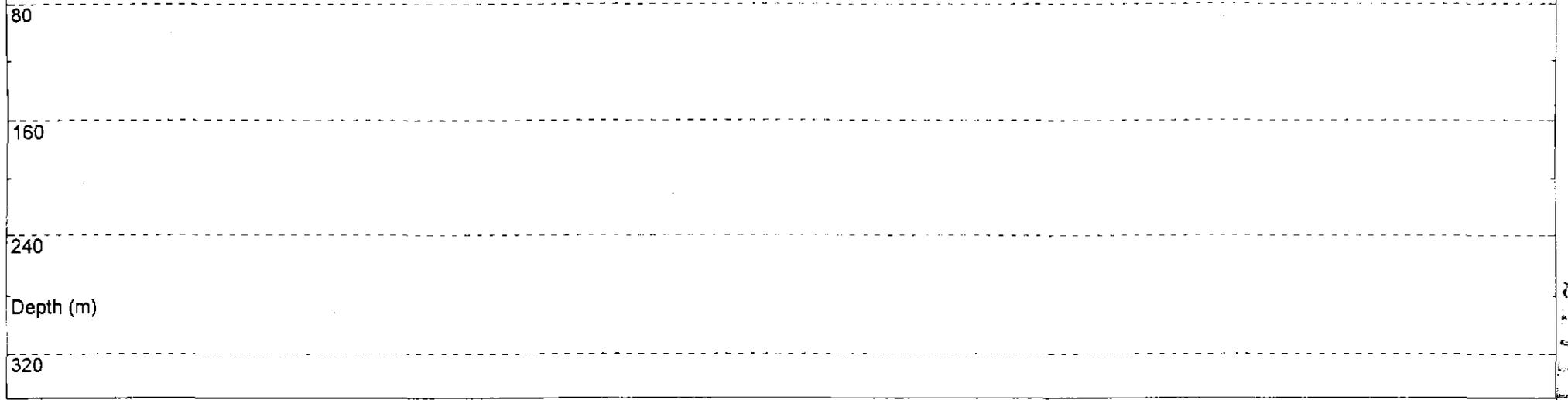
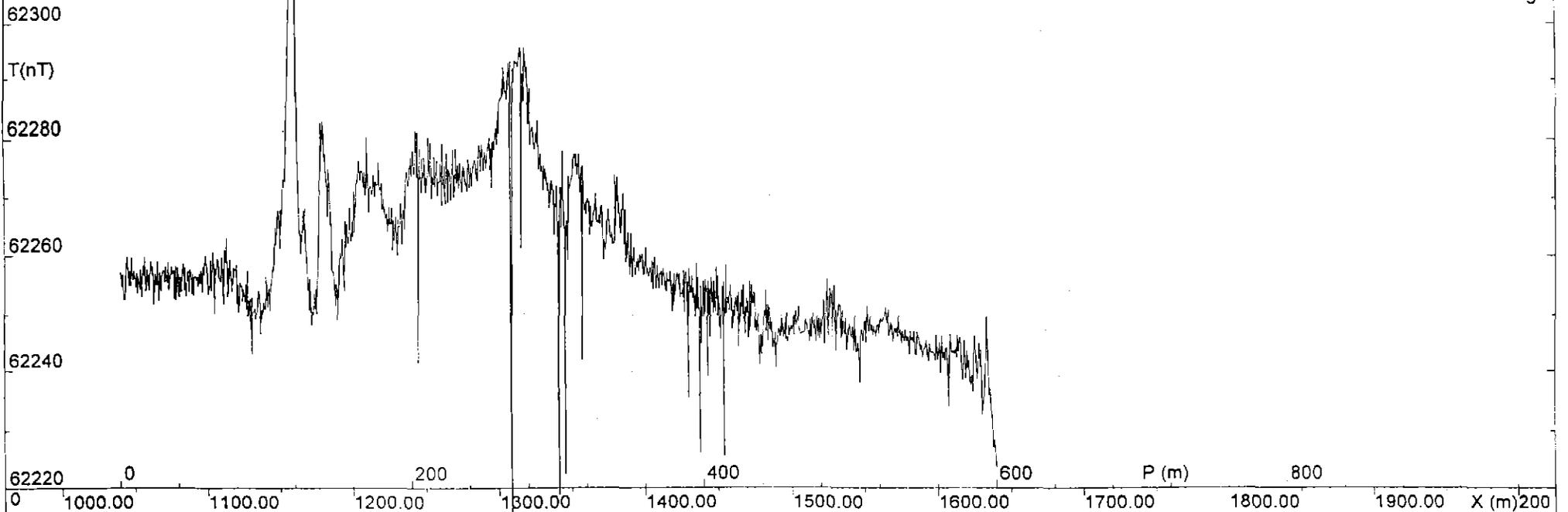
Depth (m)

320

Observations: Austral grid (Oceana)
Profile #3; 2000N
Model:

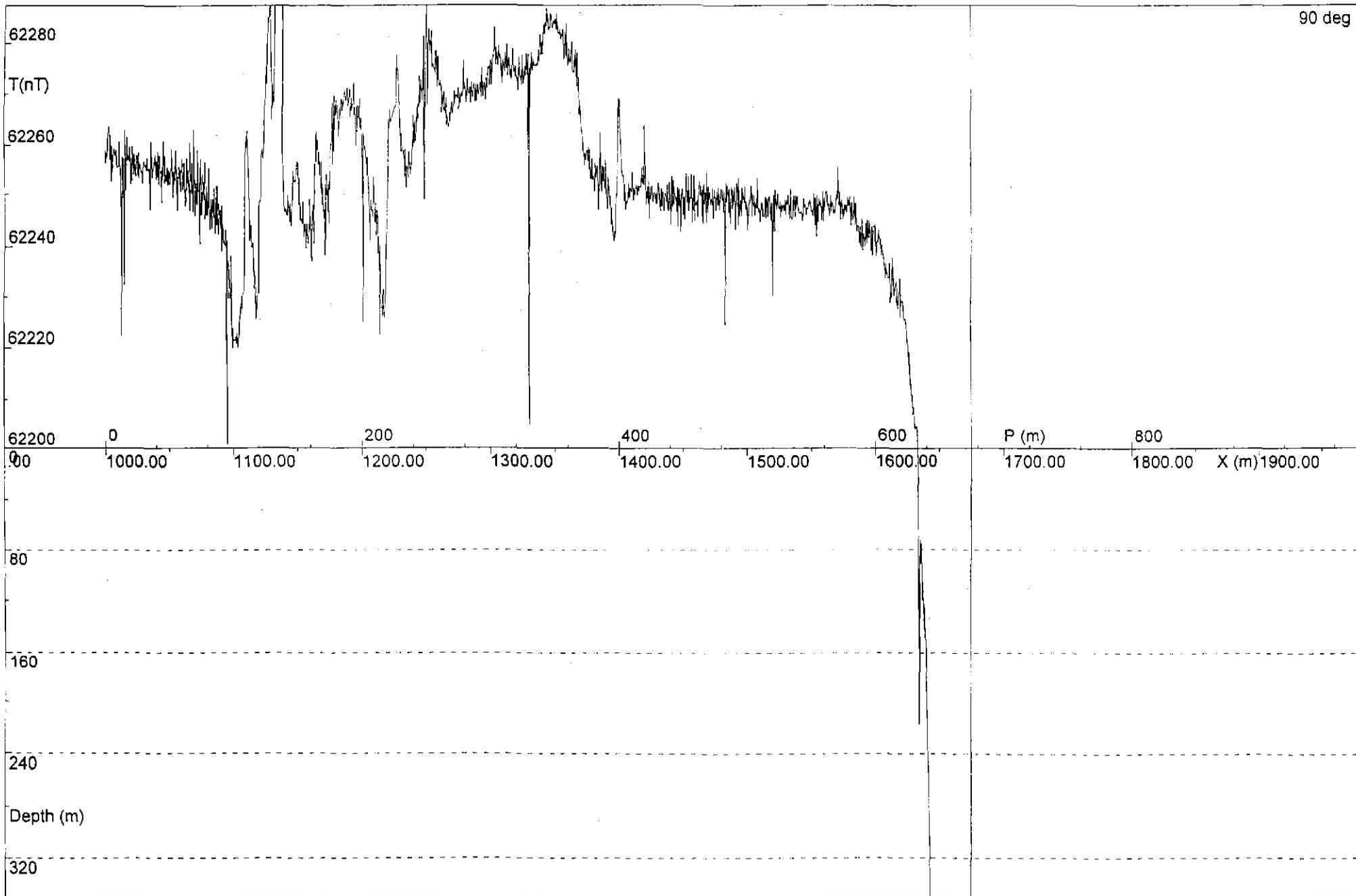
217109

90 deg



Observations: Austral grid (Oceana)
Profile #4; 1900N
Model:

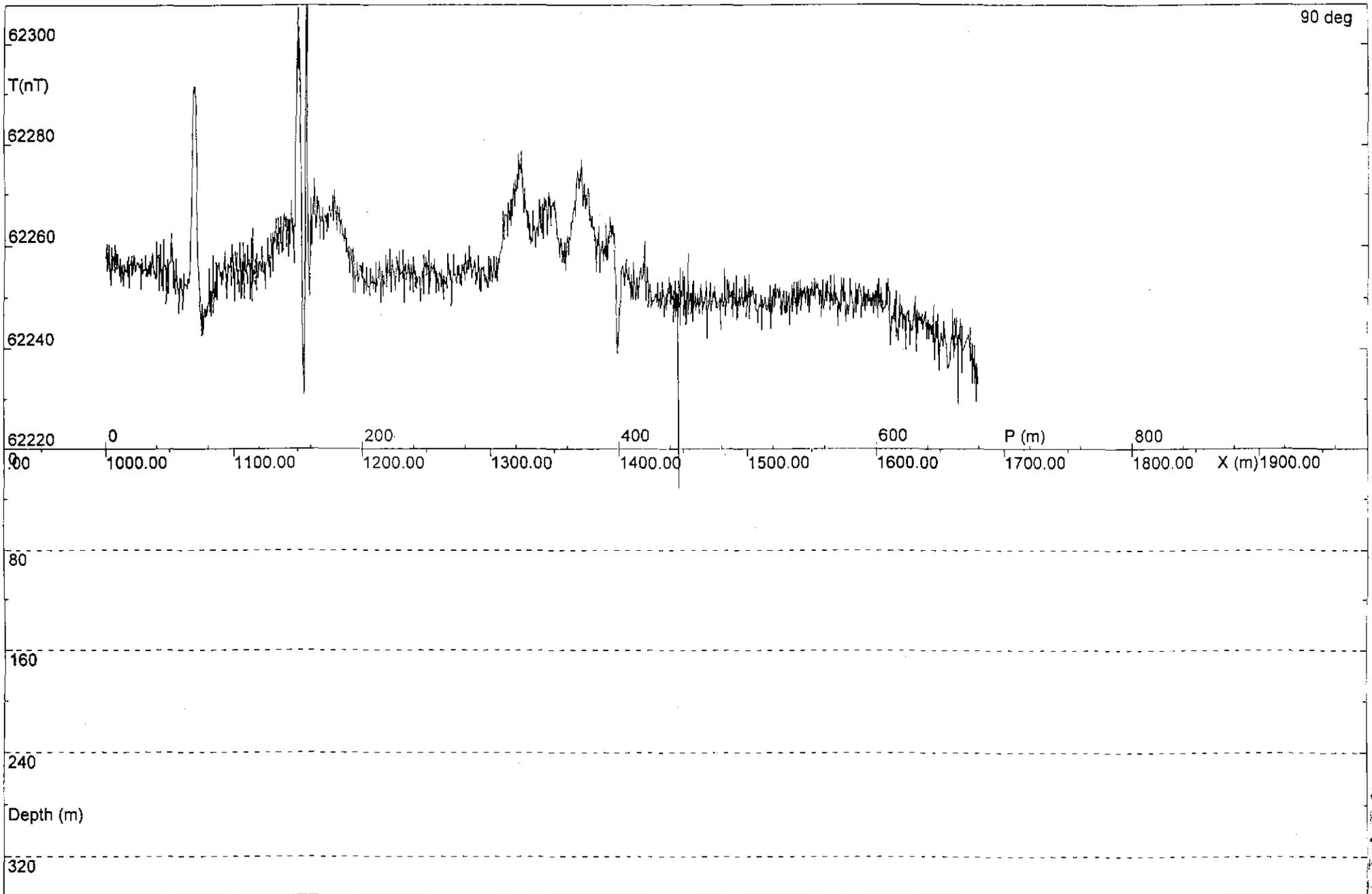
21710



Observations: Austral grid (Oceana)
 Profile #5: 1800N
 Model:

21711

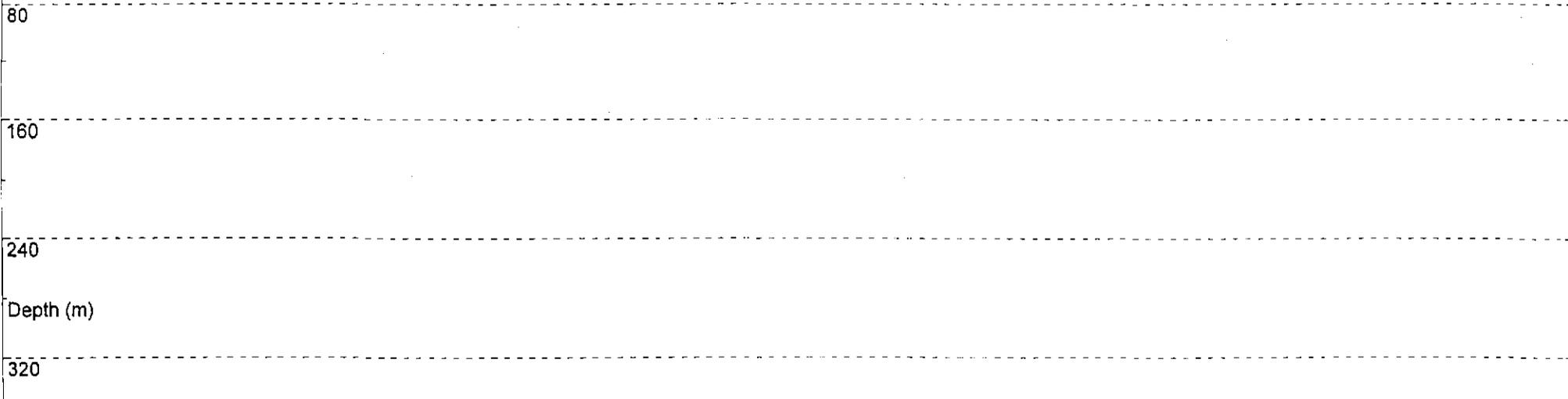
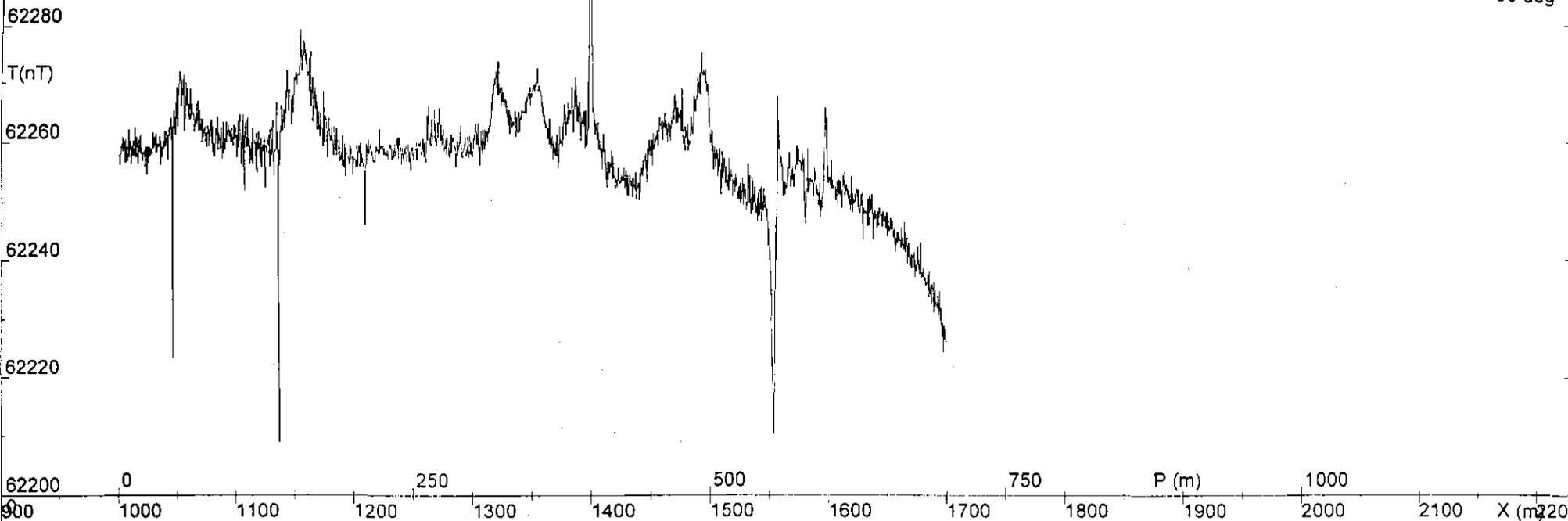
90 deg



Observations: Austral grid (Oceana)
Profile #6; 1700N
Model:

217112

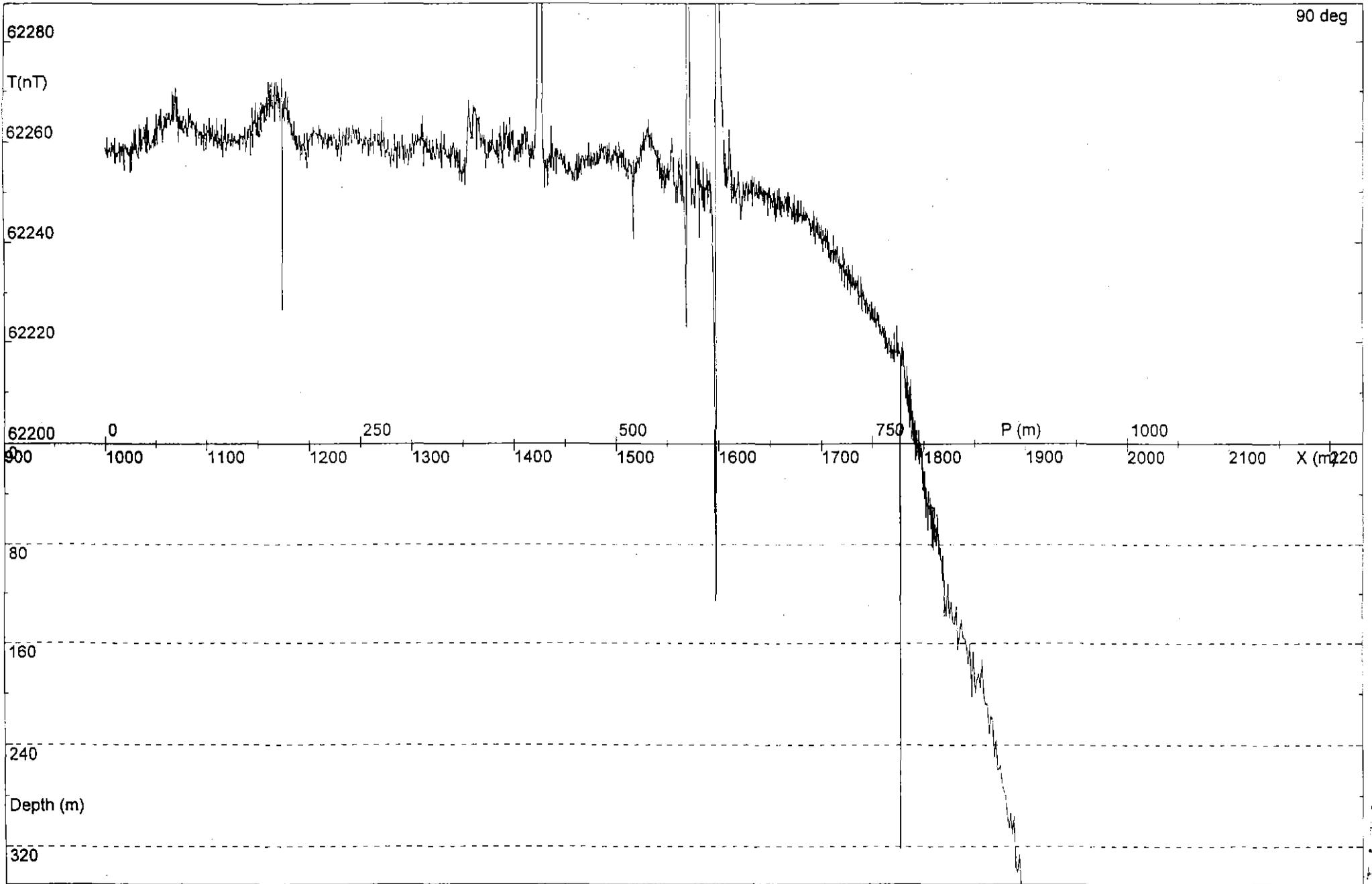
90 deg



Observations: Austral Grid (Oceana)
Profile #1; 1600N
Model:

214113

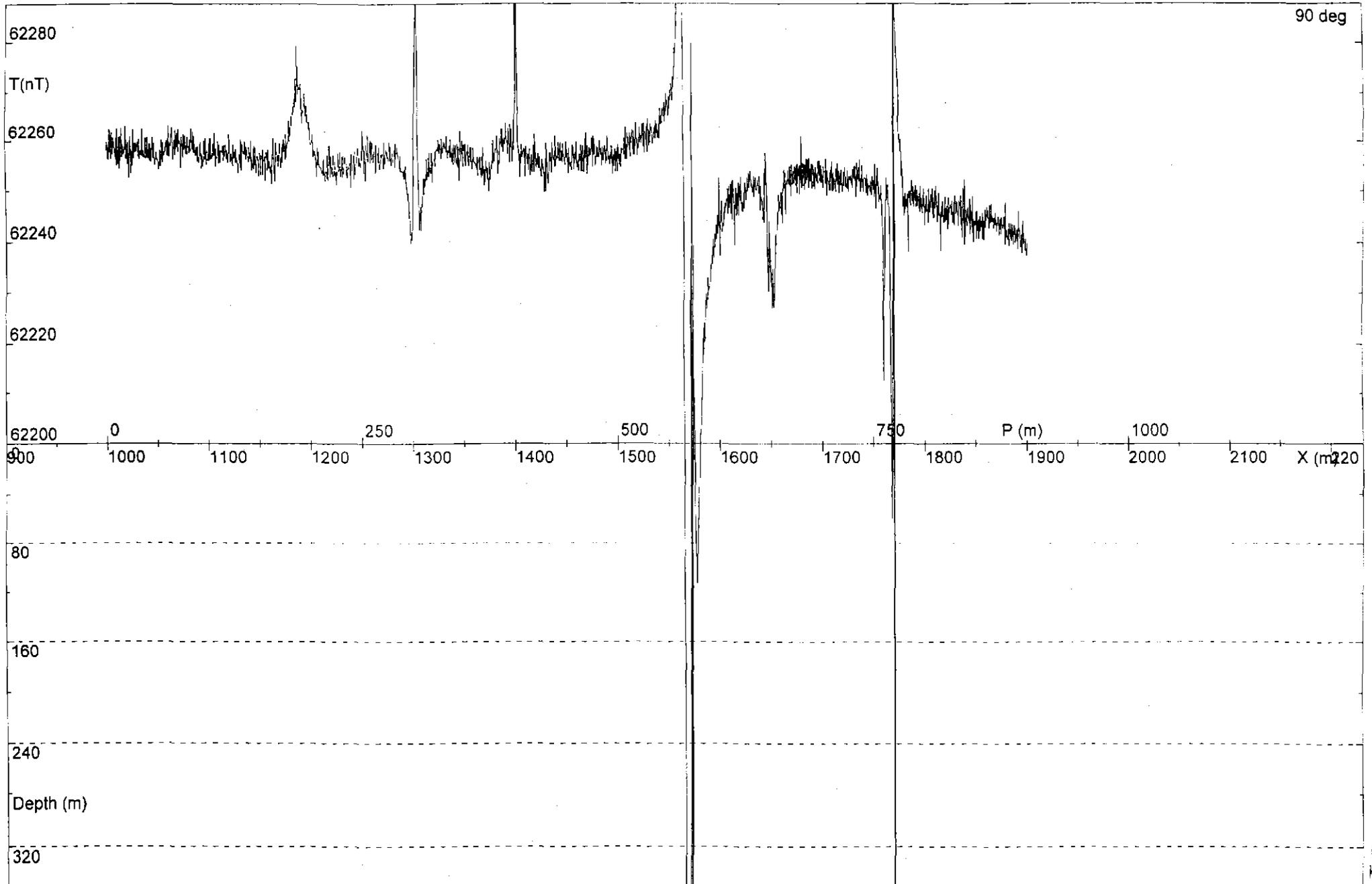
90 deg



Observations: Austral Grid (Oceana)
Profile #2; 1500N
Model:

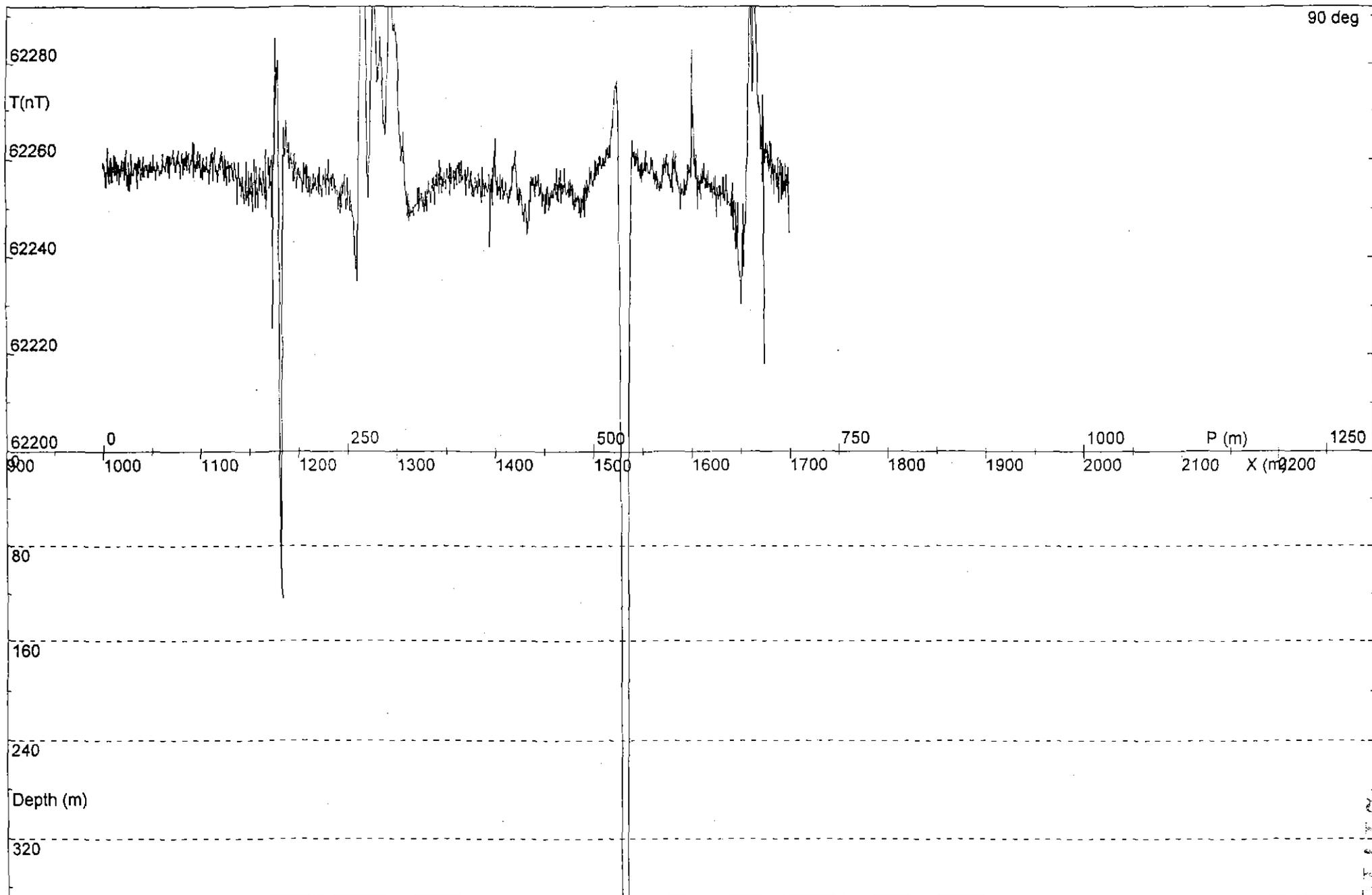
80
160
240
320

90 deg



Observations: Austral Grid (Oceana)
Profile #3; 1400N
Model:

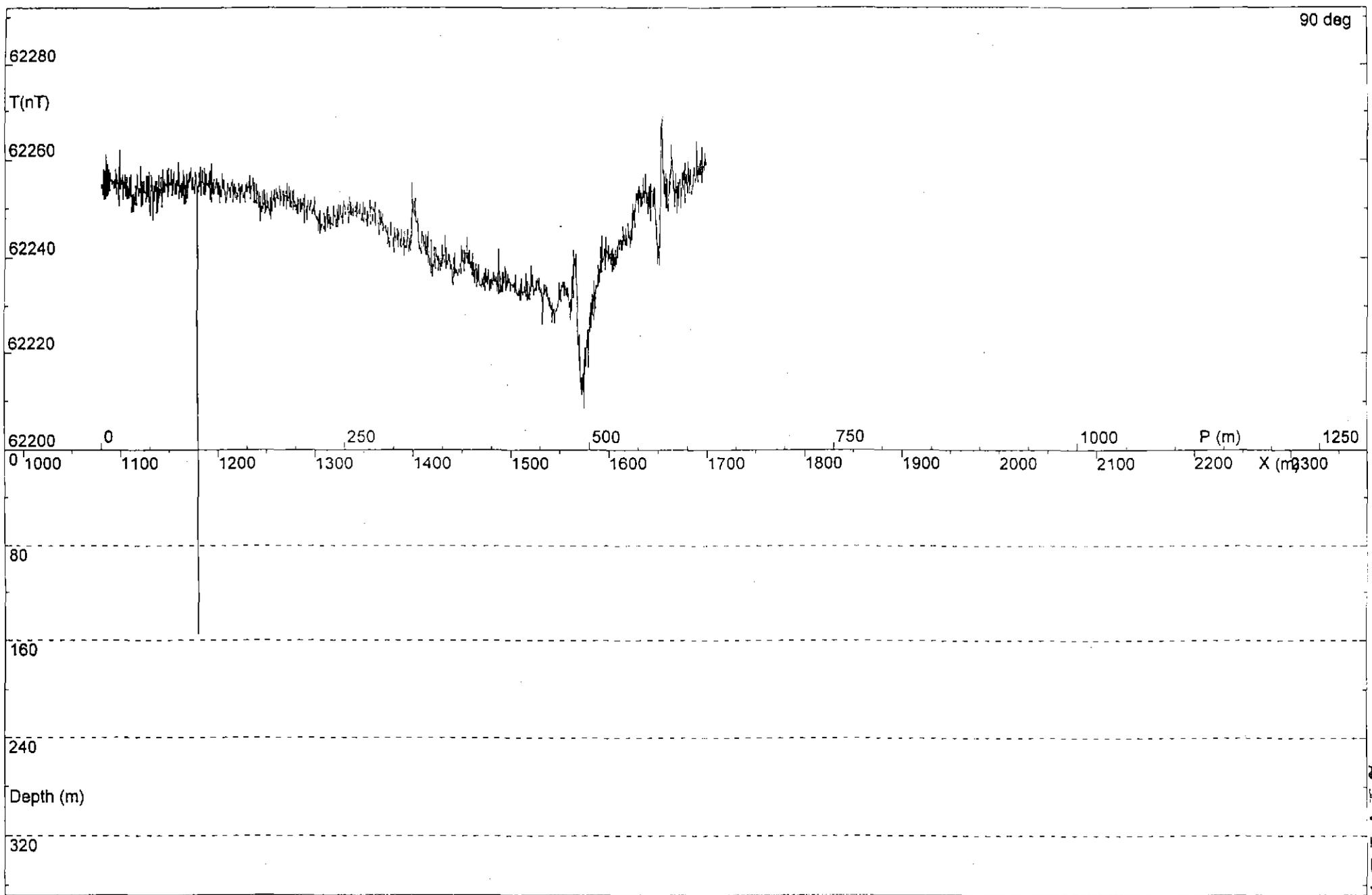
217115



Observations: Austral Grid (Oceana)
 Profile #2; 1300N
 Model:

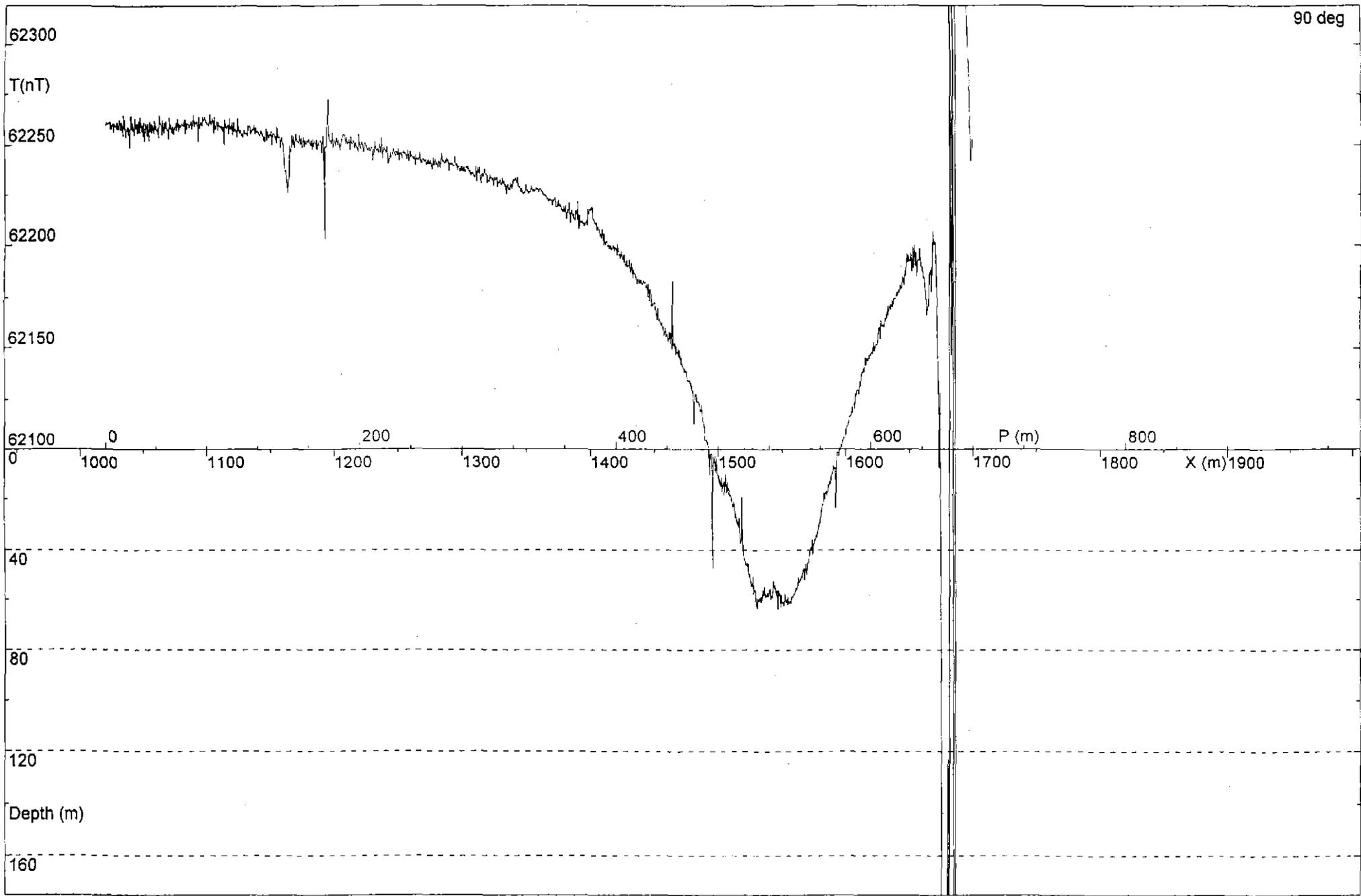
01/11/10

90 deg



Observations: Austral Grid (Oceana)
Profile #3; 1200N
Model:

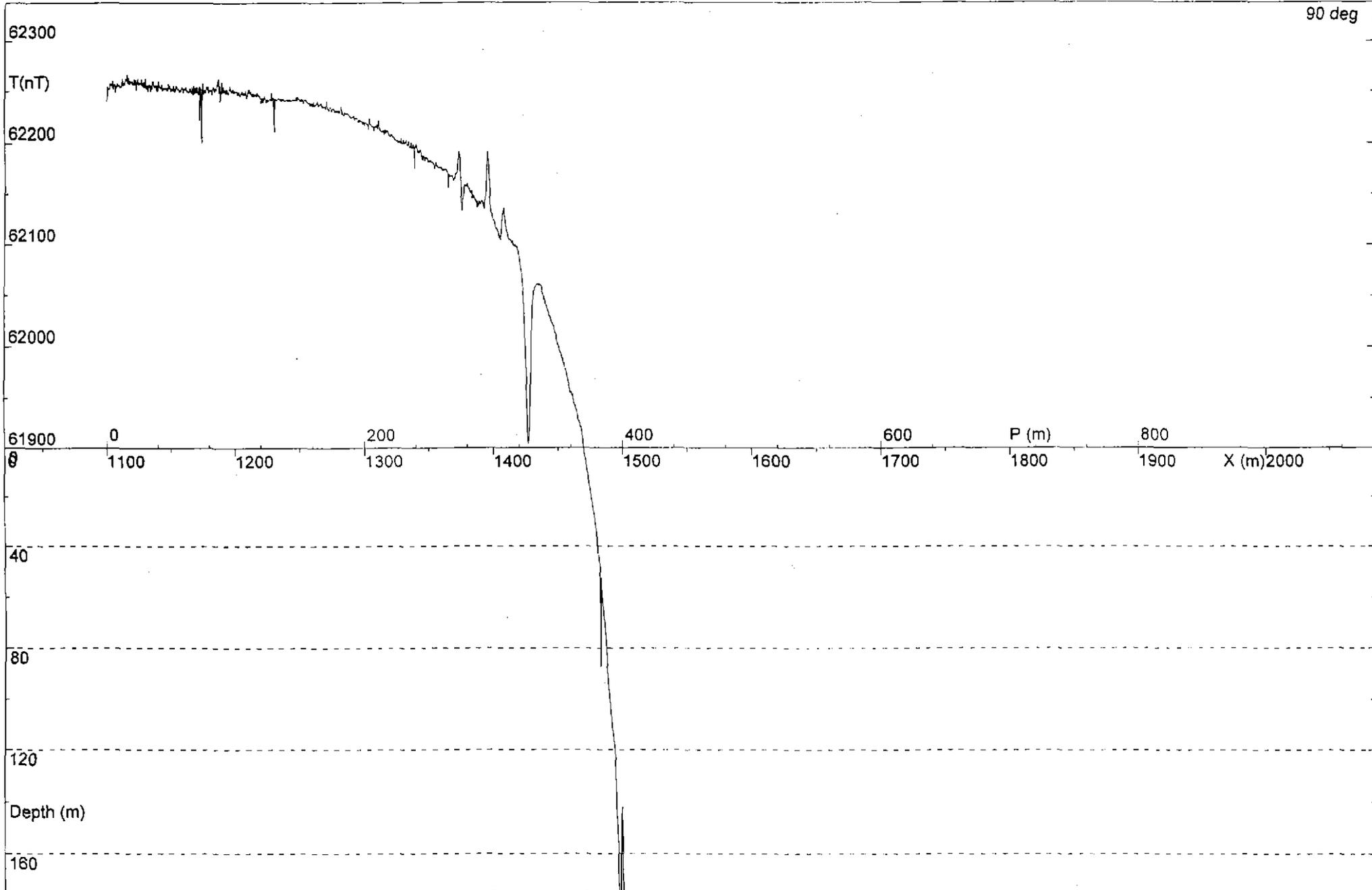
217117



Observations: Austral Grid (Oceana)
 Profile #1: 1100N
 Model:

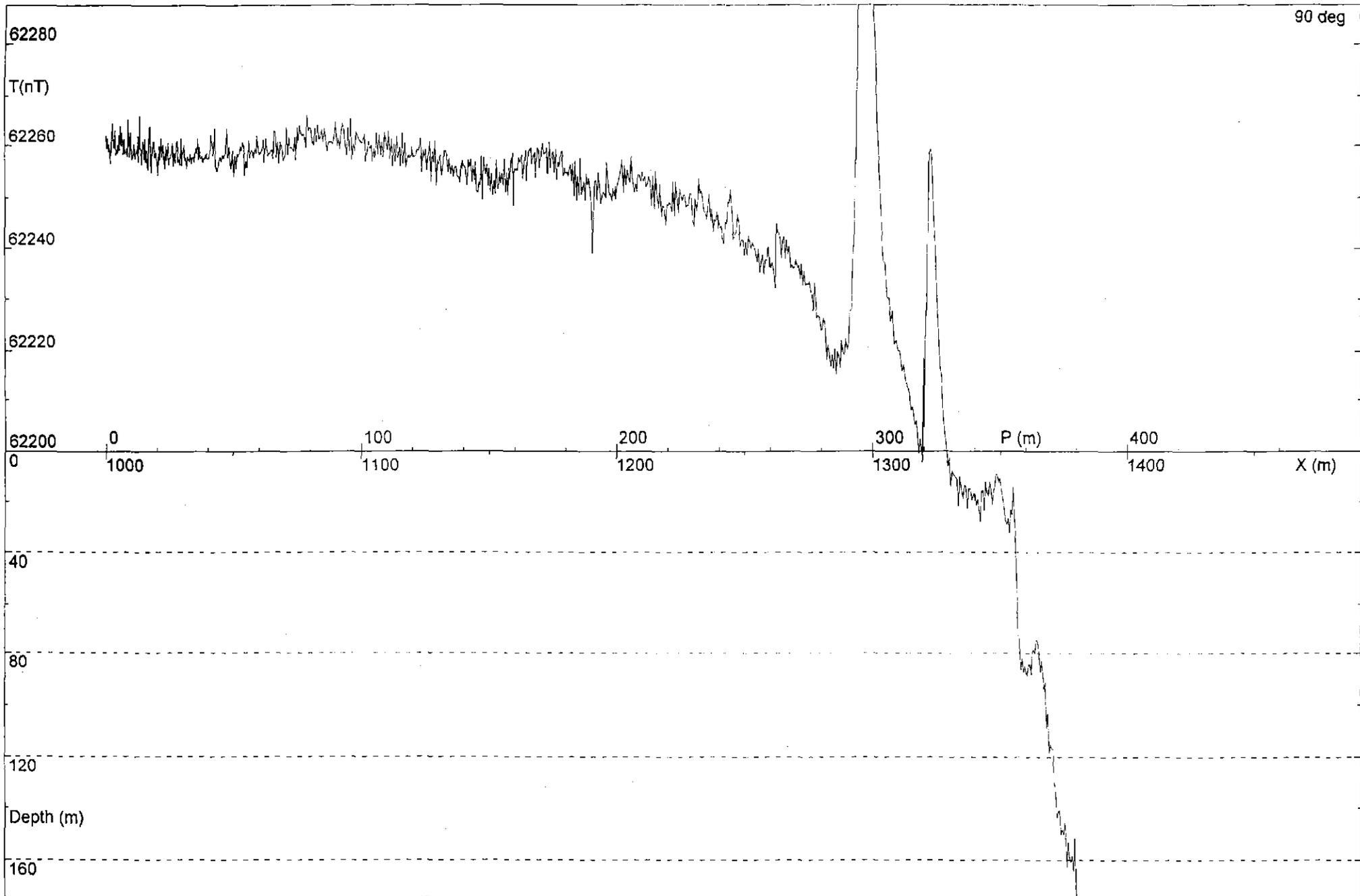
217113

90 deg



Observations: Austral Grid (Oceana)
Profile #2; 1000N
Model:

217119



90 deg

62280

T (nT)

62260

62240

62220

62200

0

100

200

300

P (m)

400

X (m)

0

1000

1100

1200

1300

1400

40

80

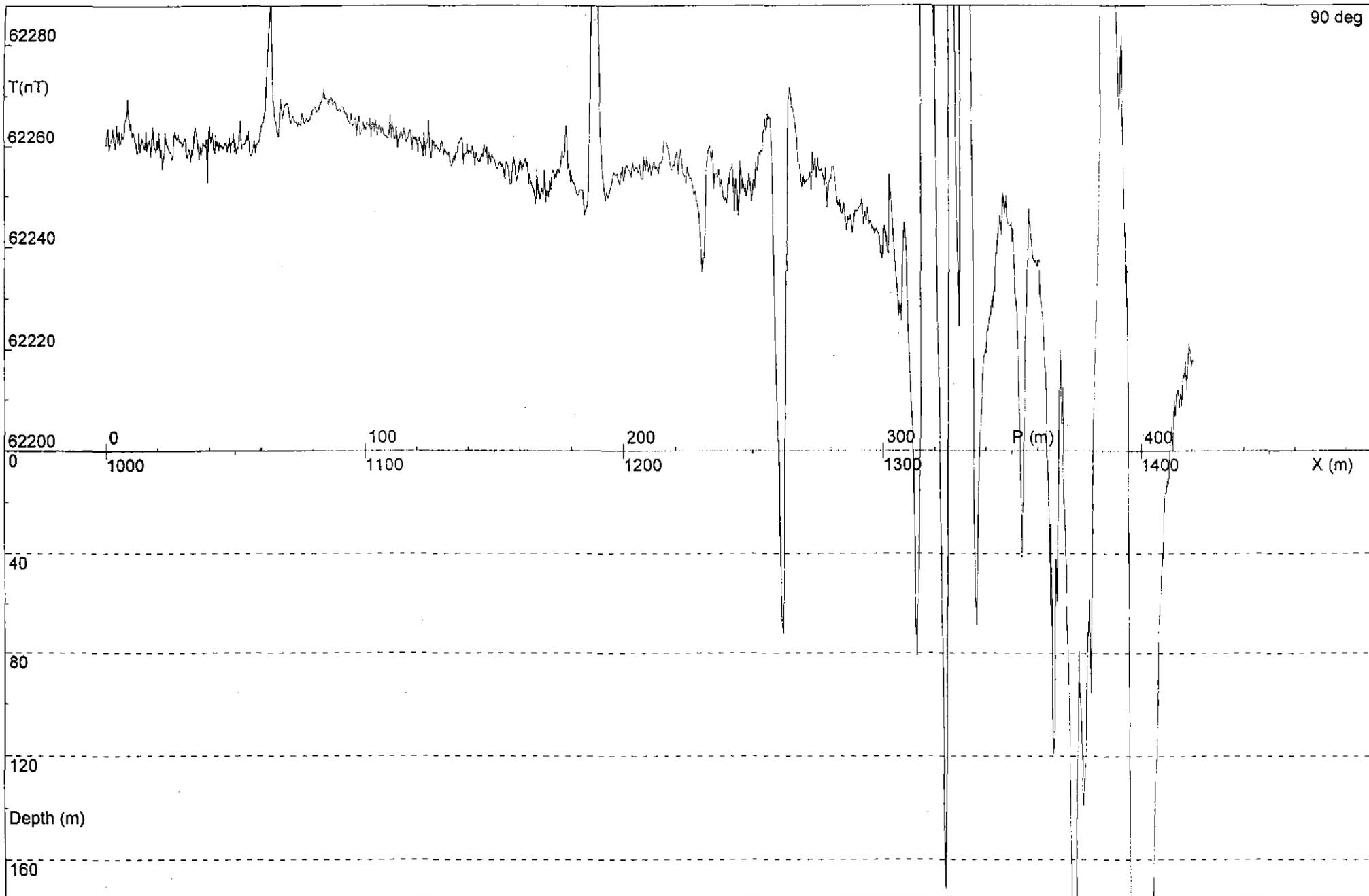
120

Depth (m)

160

Observations: Austral Grid (Oceana)
Profile #1; 800N
Model:

217120.



Observations: Austral Grid (Oceana)
 Profile #2; 700N
 Model:

217101

90 deg

62280

T(nT)

62270

62260

62250

62240

0

100

200

300

P (m)

400

X (m)

0

1100

1200

1300

1400

1500

40

80

120

Depth (m)

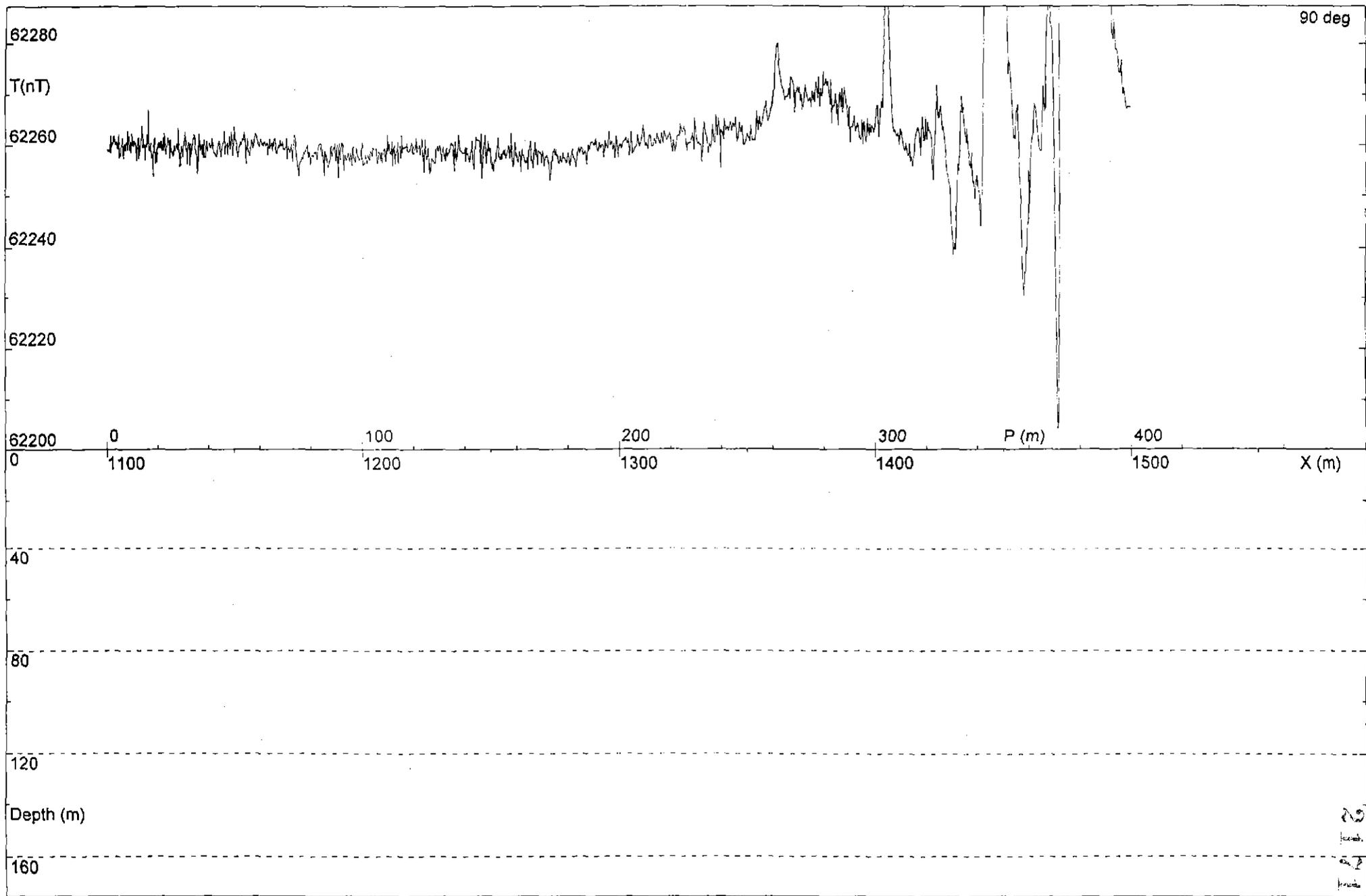
160

Observations: Austral Grid (Oceana)

Profile #3; 600N

Model:

217192



Observations: Austral Grid (Oceana)
 Profile #4: 500N
 Model:

20
 20
 20
 20

90 deg

62280

T(nT)

62270

62260

62250

62240

0

100

200

300

P (m)

400

1100

1200

1300

1400

1500

X (m)

40

80

120

Depth (m)

160

Observations: Austral Grid (Oceana)
Profile #5: 400N
Model:

20
10
10
10
10

217125

APPENDIX 7

Aircore Drill Hole Logs

HOLE NO.	FROM	TO	COMMENTS
OAC10/1120	0	1	Brn qzit. Transported.
	1	2	Brn qzit, brn soil. Transported.
	2	3	Brn-crm qzit, 5% vein quartz. Transported.
	3	4	Dk gry-brn weath. lst/dst
	4	5	Dk gry-brn weath. lst/dst
	5	6	Dk gry-brn weath. lst/dst
	6	7	Dk gry-brn weath. lst/dst
	7	8	Dk gry-brn weath. lst/dst
	8	9	Dk gry-brn weath. lst/dst
	9	10	Dk gry-brn weath. lst/dst. Very wet dk gry fines.
	10	11	Dk gry-brn weath. lst/dst. Very wet dk gry fines.
	11	12	Dk gry-brn weath. lst/dst. Very wet dk gry fines.
	12	13	Dk gry-brn weath. lst/dst. Very wet dk gry fines.
	13	14	Dk gry-brn weath. lst/dst. Very wet dk gry fines.
	14	15	Dk gry-brn weath. lst/dst. Very wet dk gry fines.
	15	16	Dk gry-brn weath. lst/dst, buff calc sst. Very wet dk gry fines.
	16	17	No Sample
	17	18	Dk gry lst/dst.
	18	19	Mid-dk gry lst/dst, calc sst.
	19	20	Dk-m gry fg calc. sst.
20	20.5	Dk-m gry fg calc. sst. EOH	
OAC10/1160	0	1	Brn qzit. Transported.
	1	2	Dk brn clay, brn qzit. Transported.
	2	3	Dk brn oxidized siltst/mudst(?).
	3	4	Dk brn oxidized siltst/mudst(?).
	4	5	Brn fines. Very wet sample.
	5	6	Brn fines. Very wet sample.
	6	7	Dk brn-gry oxidized siltst(?).
	7	8	Dk brn-gry oxidized siltst(?).
	8	9	Mottled ple gry-dk gry lst/dst.
	9	10	Dk brn lst/dst.
	10	11	Dk brn lst/dst.
	11	12	Dk brn lst/dst.
	12	13	Dk brn lst/dst.
	13	14	Ple gry lst/dst.
	14	15	Mid-dk gry lst/dst.
	15	16	Mid-dk gry lst/dst.
16	17	Mid-dk gry lst/dst. EOH	
OAC10/1200	0	1	Brn siliceous soil. Transported.
	1	2	Mid brn qzit. Transported.
	2	3	Dk gry dst/lst.
	3	4	Dk gry dst/lst, trace vein calcite.
	4	5	Dk gry dst/lst, trace vein calcite.
5	5.5	Dk gry dst/lst, trace vein calcite. EOH	
OAC10/1240	0	1	Mid brn soil. Transported.
	1	2	Siliceous chips. Transported.
	2	3	Siliceous chips. Transported.
	3	4	Dk gry lst/dst, dk brn organic rich fines.
	4	5	Mottled lt gry-crm lst, 5% dk gry lst.
	5	6	Mottled lt gry-crm lst, 5% dk gry lst. Small sample. EOH

HOLE NO.	FROM	TO	COMMENTS
OAC10/1280	0	1	No Sample.
	1	2	Dk brn clay soil.
	2	3	No Sample.
	3	3.2	Gry qzite, dk gry lst/dst, rounded vn qtz. Not to bedrock. EOH
OAC10/1320	0	1	No Sample
	1	2	Siliceous chips. Transported.
	2	3	Dk gry lst/dst, %5 vein quartz.
	3	4	Dk brn fines, no chips.
	4	5	No Sample
	5	6	Dk gry lst/dst, weakly banded. Dk gry fines.
	6	7	Dk gry lst/dst, weakly banded. Dk gry fines.
	7	7.5	Dk gry lst/dst, weakly banded. Dk gry fines. EOH
OAC10/1360	0	1	Plc gry sandy soil. Transported.
	1	2	Siliceous chips, mid brn muddy fines. Transported.
	2	3	Dk gry pitted non calc. chips.
	3	4	Dk gry, dk brn pitted non calc. chips, brn fines.
	4	5	Dk brn fines.
	5	6	Dk gry, dk brn pitted non calc. chips, brn fines.
	6	7	Dk gry non calc. chips, gry brn fines.
	7	8	Dk gry non calc. chips, gry brn fines.
	8	9	Dk gry non calc. chips, gry brn fines.
	9	10	Dk gry lst/dst, mid gry fines, fossiliferous.
	10	11	Dk gry lst/dst, abundant mid gry fines, fossiliferous.
	11	12	Dk gry lst/dst, abundant mid gry fines, fossiliferous.
	12	13	Dk gry lst/dst, abundant mid gry fines, mnr vein calcite.
	13	14	Dk gry, mid gry lst/dst, abundant mid gry fines, mnr vein calcite.
	14	15	Dk gry, mid gry lst/dst, abundant mid gry fines, mnr vein calcite.
	15	16	Dk gry, mid gry lst/dst, abundant mid gry fines, mnr vein calcite.
	16	17	Dk gry, mid gry lst/dst, abundant mid gry fines, mnr vein calcite.
	17	18	Dk gry, mid gry lst/dst, abundant mid gry fines, 30% vein calcite.
	18	19	Dk gry, mid gry lst/dst, abundant mid gry fines, 30% vein calcite.
	19	20	Dk gry, mid gry lst/dst, abund. mid gry fines, 10% calcite + brn min in vn. EOH
OAC10/1400	0	1	Siliceous chips, mid brn muddy fines. Transported.
	1	2	Siliceous chips, mid gry lst/dst. TRACE PYRITE.
	2	3	Dk gry lst/dst, abundant dk gry fines. EOH
OAC10/1440	0	1	Iron red sandy soil. Transported.
	1	2	Iron red sandy soil, mnr dk gry lst/dst.
	2	3	Mid gry lst/dst, predominantly dst. TRACE PYRITE. EOH

HOLE NO.	FROM	TO	COMMENTS
OAC11/1080	0	1	Brn qzit. Transported.
	1	2	Brn qzit. Transported.
	2	3	Brn qzit. Transported.
	3	4	Brn qzit. Transported.
	4	5	Brn qzit. Transported.
	5	6	Brn qzit. Transported.
	6	7	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	7	8	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	8	9	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	9	10	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	10	11	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	11	12	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	12	13	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	13	14	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	14	15	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	15	16	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	16	17	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	17	18	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	18	19	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	19	20	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	20	21	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	21	22	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	22	23	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	23	24	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	24	25	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	25	26	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	26	27	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	27	28	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	28	29	Dk gry-black clay, prob weath. Ist/dst. PROBABLY SULPHIDIC.
	29	30	Dk gry-black clay, dk gry Ist/dst. 5% PYRITE as chips.
	30	31	Dk gry-black clay, dk gry Ist/dst. 5% PYRITE as chips.
	31	32	Dk gry-black clay, dk gry Ist/dst. 5% PYRITE as chips.
	32	33	Dk gry-black clay, ple brn qzit chips.
	33	34	Dk gry-black clay, ple brn qzit chips.
	34	35	Dk gry-black clay, ple brn qzit chips.
	35	36	Dk gry-black clay, ple brn qzit chips.
	36	37	Dk brn-gry fines as slurry. Mnr chips.
	37	38	Dk brn-gry fines as slurry. Mnr chips.
	38	39	Dk gry-black clay, dk gry weath. Ist/dst.
	39	40	Dk gry sandy txt weath. calc qtz sst.
	40	41	Dk brn-gry fines as slurry. Mnr chips.
	41	42	Dk brn-gry fines as slurry. Mnr chips.
	42	43	Wht-ple gry qtz sst, 30% dk gry weath. Ist/dst.
	43	44	Dk gry sandy txt, non calc. sst.
	44	45	Dk gry sandy txt, non calc. sst.
	45	46	Dk gry sandy txt, dolomitic sst.
	46	47	Dk gry sandy txt, dolomitic sst.
47	48	Dk gry sandy txt, dolomitic sst. E.O.H	
OAC11/1120	0	1	Brn qzit. Transported.
	1	2	Brn qzit. Transported.
	2	3	Brn qzit. Transported.
	3	4	Brn qzit. Transported.
	4	5	Brn qzit. Transported.
	5	6	Dk gry clayey weath. Ist/dst.
	6	7	Dk gry clayey weath. Ist/dst.
	7	8	Dk gry clayey weath. Ist/dst.
8	9	Dk gry clayey weath. Ist/dst.	

HOLE NO.	FROM	TO	COMMENTS
	9	10	Dk brn-gry fines as slurry. Mnr chips.
	10	11	Dk brn-gry fines as slurry. Mnr chips.
	11	12	Dk brn-gry fines as slurry. Mnr chips.
	12	13	Dk brn lst/dst, dk gry fines as slurry.
	13	14	Dk brn lst/dst, dk gry fines as slurry.
	14	15	Dk brn lst/dst, dk gry fines as slurry.
	15	16	Dk brn lst/dst, dk gry fines as slurry.
	16	17	Dk brn-gry fines as slurry. Mnr chips.
	17	18	Dk brn-gry fines as slurry. Mnr chips.
	18	19	Dk brn-gry fines as slurry. Mnr chips.
	19	20	Dk gry weath. lst/dst.
	20	21	Dk gry weath. lst/dst.
	21	22	Dk gry weath. lst/dst.
	22	23	Dk gry weath. lst/dst.
	23	24	Dk gry weath. lst/dst.
	24	25	Dk gry weath. lst/dst, 30% wht calc. sst.
	25	26	Dk gry weath. lst/dst, 30% wht calc. sst, 5% vein calc.
	26	27	Dk gry weath. lst/dst.
	27	28	Dk gry weath. lst/dst., 5% vein calc.
	28	29	Dk gry, ple gry lst/dst, mnr vein calc.
	29	30	Dk gry, ple gry lst/dst, mnr vein calc.
	30	31	Dk gry, ple gry lst/dst, mnr vein calc.
	31	32	Dk gry, ple gry lst/dst, mnr vein calc.
	32	33	Dk gry, ple gry lst/dst, mnr vein calc. E.O.H
OAC11/1160	0	1	Brn qzit. Transported.
	1	2	Brn qzit. Transported.
	2	3	Brn qzit. Transported.
	3	4	Brn qzit. Transported.
	4	5	Brn qzit. Transported.
	5	6	Brn qzit. Transported.
	6	7	Brn qzit. Transported.
	7	8	Brn qzit. Transported.
	8	9	Brn qzit. Transported.
	9	10	Dk gry weath. lst/dst.
	10	11	Dk gry weath. lst/dst.
	11	12	Dk brn-gry fines as slurry. Mnr chips.
	12	13	Dk brn-gry fines as slurry. Mnr chips.
	13	14	Dk brn-gry fines as slurry. Mnr chips.
	14	15	Dk brn-gry fines as slurry. Mnr chips.
	15	16	Dk brn-gry fines as slurry. Mnr chips.
	16	17	Dk brn-gry fines as slurry. Mnr chips.
	17	18	Dk brn-gry fines as slurry. Mnr chips.
	18	19	Dk brn-gry fines as slurry. Mnr chips.
	19	20	Dk brn-gry fines as slurry. Mnr chips.
	20	21	Dk brn-gry fines as slurry. Mnr chips.
	21	22	Dk brn-gry fines as slurry. Mnr chips.
	22	23	Dk gry lst/dst, 5% crm vein calcite.
	23	24	Dk gry lst/dst, 5% crm vein calcite, fossiliferous.
	24	25	Dk gry lst/dst. TRACE PYRITE.
	25	26	Dk gry lst/dst. TRACE PYRITE.
	26	26.5	Dk gry lst/dst. TRACE PYRITE. E.O.H
OAC11/1200	0	1	Brn qzit. Transported.
	1	2	Brn qzit. Transported.
	2	3	Brn qzit. Transported.
	3	4	Dk gry weath. lst/dst.
	4	5	Dk gry weath. lst/dst.

HOLE NO.	FROM	TO	COMMENTS
	5	6	Dk brn-gry fines as slurry. Mnr chips.
	6	7	Dk brn-gry fines as slurry. Mnr chips.
	7	8	Dk brn-gry fines as slurry. Mnr chips.
	8	9	Dk brn-gry fines as slurry. Mnr chips.
	9	10	Dk brn-gry fines as slurry. Mnr chips.
	10	11	Dk brn-gry fines as slurry. Mnr chips.
	11	11.5	Dk brn-gry fines as slurry. Mnr chips. E.O.H
OAC11/1240	0	1	Brn qzit. Transported.
	1	2	Dk brn clay.
	2	3	Dk brn-gry weath. Ist/dst, mnr qzit.
	3	4	Dk brn weath. Ist/dst.
	4	5	Dk brn Ist/dst, dk gry fines as slurry.
	5	6	Dk brn Ist/dst, dk gry fines as slurry. No chips.
	6	7	Dk brn Ist/dst, dk gry fines as slurry. No chips.
	7	8	Dk brn Ist/dst, dk gry fines as slurry. No chips.
	8	9	Dk brn Ist/dst, dk gry fines as slurry. No chips.
	9	10	Dk brn Ist/dst, dk gry fines as slurry. No chips. E.O.H
OAC11/1280	0	1	Dk brn clay soil.
	1	2	Dk brn clay soil.
	2	3	Dk brn weath. Ist/dst. 10% vein qtz.
	3	4	Dk brn weath. Ist/dst. 10% vein qtz.
	4	5	Dk brn Ist/dst, dk gry fines as slurry.
	5	6	Dk brn Ist/dst, dk gry fines as slurry.
	6	7	Dk brn Ist/dst, dk gry fines as slurry. Mnr dk gry Ist/dst chips. E.O.H
OAC11/1320	0	1	No Sample
	1	2	No Sample E.O.H
OAC11/1360	0	1	Brn sandy soil.
	1	2	Dk gry Ist/dst, mnr vein calcite. E.O.H
OAC11/1400	0	1	No Sample
	1	2	Mid gry Ist/dst, 10% PYRITE dissem.
	2	3	Abundant dk gry fines.
	3	4	Crm brn non calc chips, abundant dk gry fines.
	4	5	Dk gry Ist/dst.
	5	6	Dk gry, mid gry Ist/dst, mnr gry fines.
	6	7	Dk gry, mid gry Ist/dst, mnr gry fines, 40% vein calcite.
	7	8	Dk gry, mid gry Ist/dst, abundant gry fines, 70% vein calcite.
	8	9	Dk gry, mid gry Ist/dst, mnr gry fines, 5% vein calcite.
	9	10	Ple gry Ist/dst, predom. calcitic fossils, mnr vein calcite.
	10	11	Dk gry Ist, 30% vein calcite. TRACE PYRITE.
	11	12	Ple gry Ist/dst, predom. calcitic fossils, 20% vein calcite. E.O.H
OAC11/1440	0	1	Siliceous chips, pnk-brn clayey fines. Transported.
	1	2	Siliceous and Ist/dst chips, black fines. TRACE PYRITE.
	2	3	Crm-wht Ist/dst, black fines. 5% PYRITE.
	3	4	Crm-wht Ist/dst, black fines. 5% PYRITE.
	4	5	Crm-wht Ist/dst, black fines. 40% PYRITE.
	5	5.6	Mid gry fossiliferous Ist/dst. 20% PYRITE AS CHIPS AND VEINS. E.O.H
OAC11/1480	0	1	Crm, brn siliceous chips, ple crm fines. Transported.
	1	2	Crm, brn siliceous chips, ple crm fines. Transported.
	2	3	Crm, brn siliceous chips, ple crm fines. Transported.
	3	4	Dk gry non calc. chips, no fines.

HOLE NO.	FROM	TO	COMMENTS
	4	5	Dk gry non calc. chips, no fines.
	5	6	Dk gry non calc. chips, mnr dk gry fines.
	6	7	Dk gry non calc. chips, mnr dk gry fines.
	7	8	Dk gry non calc. chips, mnr dk gry fines.
	8	9	Dk gry non calc. chips, mnr lst/dst, mnr dk gry fines.
	9	10	Dk gry, pitted, non calc. chips, mnr dk gry fines.
	10	11	Dk gry, pitted, non calc. chips, mnr dk gry fines.
	11	12	Dk gry, pitted, non calc. chips, mnr dk gry fines.
	12	13	Dk gry lst/dst, predom. dst, dk gry fines.
	13	14	Dk gry lst/dst, predom. dst, abundant dk gry fines.
	14	15	Dk gry lst/dst, predom. dst, abundant dk gry fines. TRACE PYRITE. E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC12/1200	0	1	White siliceous chips, dk brn fines.
	1	2	Dk brn weath. lst/dst, dk brn fines.
	2	3	Dk brn weath. lst/dst, dk brn fines.
	3	4	Dk brn weath. lst/dst, 50% ple brn qzit chips, dk brn fines.
	4	5	Dk brn weath. lst/dst, dk brn fines.
	5	6	Dk brn weath. lst/dst, dk brn fines.
	6	7	Dk brn weath. lst/dst, dk brn fines.
	7	8	No Sample
	8	9	Dk brn weath. lst/dst, 50% qzit, dk brn fines.
	9	9.5	Dk brn weath. lst/dst, mnr ple gry lst/dst, dk brn fines. E.O.H
OAC12/1240	0	1	Dk brn clayey soil.
	1	2	Dk brn clayey soil.
	2	3	Dk gry weath. lst/dst
	3	4	Dk gry lst/dst, dk gry fines as slurry.
	4	5	Dk gry lst/dst, dk gry fines as slurry.
	5	6	Dk gry lst/dst, dk gry fines as slurry.
	6	7	Dk gry lst/dst, dk gry fines.
	7	8	Dk gry lst/dst, dk gry fines.
	8	9	Dk gry lst/dst, dk gry fines. E.O.H
OAC12/1280	0	1	Mid brn clayey soil.
	1	2	Brn weath. lst/dst, mnr vein qtz, dk gry fines as slurry.
	2	3	Dk gry weath. lst/dst, mnr vein qtz, dk gry fines as slurry.
	3	4	Dk gry weath lst/dst, 10% sandy txt dol.
	4	5	Dk gry lst/dst.
	5	6	Dk gry lst/dst.
	6	7	Dk gry lst/dst, 10% ple brn qzit.
	7	7.5	Mid gry lst/dst, 5% white vein qtz. E.O.H
OAC12/1320	0	1	White vein quartz, ple brn qzit, brn fines. Transported.
	1	2	Brn clayey soil.
	2	3	Brn clayey soil.
	3	4	Dk gry weath.lst/dst.
	4	5	Dk gry weath.lst/dst.
	5	6	Ple gry, dk gry lst/dst.
	6	7	Ple gry, dk gry lst/dst, fossiliferous
	7	8	Ple gry, dk gry lst/dst, fossiliferous, laminated.
	8	8.2	Ple gry, dk gry lst/dst, fossiliferous, laminated. E.O.H
OAC12/1360	0	1	Dk brn soil, ple brn qzit. Transported.
	1	2	Dk gry lst/dst.
	2	2.1	Dk gry lst/dst, small sample. E.O.H
OAC12/1400	0	1	Dk gry soil.
	1	2	Dk gry lst/dst, weak foiliation.
	2	3	Mid gry lst/dst, sandy txt dol, fossiliferous, mnr vein calcite.
	3	4	Mid gry lst/dst, sandy txt dol, fossiliferous, mnr vein calcite.
	4	5	Mid gry lst/dst, sandy txt dol, fossiliferous, mnr vein calcite.
	5	6	Dk gry bioclastic lst/dst, ple gry fossil fragments, mnr sandy txt dol, 5% vein calcite. E.O.H
OAC12/1440	0	1	No Sample
	1	2	No Sample
	2	3	Siliceous and quartz chips. Transported.
	3	4	Siliceous and quartz chips. Transported.
	4	5	No Sample
	5	6	Siliceous and quartz chips. Transported.

HOLE NO.	FROM	TO	COMMENTS
	6	7	Siliceous, quartz and 30% lst/dst chips.
	7	8	Siliceous, quartz and 30% lst/dst chips.
	8	9	No Sample
	9	10	Dk gry pitted lst/dst and minor siliceous chips, dk gry fines.
	10	11	Dk gry pitted lst/dst and minor siliceous chips, dk gry fines.
	11	12	Dk gry pitted lst/dst and abundant siliceous chips, dk gry fines.
	12	13	Siliceous and quartz chips.
	13	14	Siliceous, quartz and minor lst chips.
	14	15	No Sample.
	15	16	Dk gry pitted lst/dst minor siliceous chips, dk gry fines.
	16	17	Dk gry pitted lst/dst minor siliceous chips, dk gry fines.
	17	18	Dk gry pitted and fresh lst/dst. 2% PYRITE.
	18	19	Dk gry pitted and fresh lst/dst. 2% PYRITE.
	19	20	Mid-dk gry lst/dst, rare fossils.
	20	21	Mid-dk gry lst/dst, rare fossils. E.O.H
OAC12/1480	0	1	No Sample
	1	2	Siliceous chips, dark grey fines.
	2	3	Dk gry slightly calc. lst/dst, dk gry fines. TRACE PYRITE.
	3	4	Dk gry lst/dst, rare fossils.
	4	5	Dk gry lst/dst, rare fossils. TRACE PYRITE.
	5	6	Dk gry, mid gry lst/dst.
	6	7	Dk gry, mid gry lst/dst.
	7	8	Dk gry, mid gry lst/dst.
	8	9	Dk gry, mid gry lst/dst.
	9	10	Dk gry, mid gry lst/dst.
	10	10.2	Dk gry, mid gry lst/dst. E.O.H
OAC12/1520	0	1	Siliceous and quartz chips. Transported.
	1	2	Dk gry lst/dst, dk gry fines.
	2	3	Dk gry lst/dst, dk gry fines.
	3	4	Dk gry, mid gry lst/dst., common fossils. TRACE PYRITE.
	4	4.2	Dk gry, mid gry lst/dst., common fossils. TRACE PYRITE. E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC13/1200	0	1	Dk brn clayey soil
	1	2	Dk gry weath. lst/dst.
	2	3	Dk gry lst/dst, dk gry fines as slurry.
	3	4	Dk gry lst/dst, dk gry fines as slurry.
	4	5	No Sample.
	5	6	Dk gry weath. lst/dst.
	6	7	Dk gry weath. lst/dst.
	7	8	Dk gry lst/dst, sandy txt dst common, dk gry fines.
	8	9	Dk gry lst/dst, sandy txt dst common, dk gry fines.
	9	10	Dk gry lst/dst, sandy txt dst common, dk gry fines.
	10	11	Dk gry lst/dst, sandy txt dst common, dk gry fines.
	11	12	Dk gry lst/dst, sandy txt dst common, dk gry fines. E.O.H
OAC13/1240	0	1	Dk brn clayey soil
	1	2	Dk gry lst/dst, 10% vein calcite.
	2	3	Dk gry lst/dst, weak lamination.
	3	4	Dk gry lst/dst, weak lamination.
	4	5	Dk gry lst/dst, weak lamination.
	5	6	Dk gry lst/dst, weak lamination. MINOR PYRITE
	6	7	Dk gry lst/dst, weak lamination.
	7	7.5	Dk gry lst/dst, weak lamination. E.O.H
OAC13/1280	0	1	Dk brn clayey soil, mnr qzit chips.
	1	2	Dk brn clayey soil, mnr qzit chips.
	2	3	Dk gry lst/dst, sandy txt dst in part.
	3	4	Dk gry lst/dst. E.O.H
OAC13/1320	0	1	Dk gry weath. lst/dst. Small sample.
	1	2	Dk gry weath. lst/dst. Small sample.
	2	3	Med-dk gry fines, no chips.
	3	4	Ple gry qzit, 30% vein qtz, dk gry fines.
	4	5	Ple gry qzit, 30% vein qtz, dk gry fines.
	5	6	Med-dk gry fines, no chips.
	6	7	Dk gry lst/dst, dk gry fines.
	7	8	Dk gry lst/dst, dk gry fines.
	8	9	Dk gry lst/dst, dk gry fines.
	9	10	Dk gry lst/dst, dk gry fines, 10% vein calcite.
	10	11	Dk gry lst/dst, dk gry fines, 10% vein calcite.
	11	12	Dk gry lst/dst, dk gry fines, 10% vein calcite.
	12	13	Med-dk gry fines, no chips, small sample.
	13	14	Med-dk gry fines, no chips, small sample.
	14	15	Med-dk gry fines, no chips, small sample.
15	16	No Sample.	
16	17	No Sample.	
17	18	Dk gry clayey fines. Small sample.	
18	19	Dk gry lst/dst, 5% vein calcite.	
19	20	Dk gry lst/dst, 10% vein calcite. TRACE PYRITE.	
20	21	Dk gry lst/dst, 10% vein calcite. TRACE PYRITE.	
21	22	Dk gry lst/dst, 10% vein calcite. TRACE PYRITE.	
22	23	Dk gry lst/dst, 10% vein calcite. TRACE PYRITE. E.O.H	
OAC13/1360	0	1	Dk brn clayey soil
	1	2	Wht qzit, mnr weath. lst/dst. NOT TO BEDROCK E.O.H
OAC13/1380	0	1	Dk brn clayey soil
	1	2	No Sample.
	2	3	Dk gry lst/dst, dk brn-gry fines, 5% vein calcite.
	3	4	No Sample.

HOLE NO.	FROM	TO	COMMENTS
	4	5	Dk gry clayey fines. Small sample.
	5	6	Dk gry lst/dst, dk gry fines.
	6	7	Dk gry lst/dst, dk gry fines. TRACE PYRITE.
	7	7.2	Dk gry lst/dst, dk gry fines. TRACE PYRITE. E.O.H
OAC13/1400	0	1	Dk brn clayey soil, brn qzit chips. Transported.
	1	2	Ple gry-brn qzit. Transported.
	2	3	Dk gry lst/dst, 50% qzit. 5% PYRITE, TRACE GALENA.
	3	4	Dk gry lst/dst, 30% vein qtz. 5% PYRITE, 5% GALENA.
	4	5	Ple gry qzit, 20% vein qtz, 10% PYRITE, TRACE GALENA.
	5	6	Ple gry qzit, 50% vein qtz, 5% PYRITE.
	6	7	Dk gry, ple gry lst/dst, 30% vein qtz, 10% qzit, 15% PYRITE, 5% GALENA.
	7	8	Dk gry, ple gry lst/dst, 30% vein qtz, 10% qzit, 15% PYRITE, 5% GALENA.
	8	9	Dk gry lst/dst, ple gry calc sst, mnr qzit. 5% PYRITE. 5% GALENA.
	9	10	Ple brn-buff sideritic(?) lst/dst, mnr dk gry lst/dst. 5% PYRITE, TRACE GALENA
	10	11	Ple brn-buff sideritic(?) lst/dst, mnr dk gry lst/dst. 5% PYRITE, TRACE GALENA
	11	12	60% vein qtz, 20% ple brn-buff siderite(?), mnr dk gry lst/dst. 5% PYRITE, 5% GALENA.
	12	13	Dk gry lst/dst, 10% vein calcite, 10% siderite(?). 5% PYRITE, TRACE GALENA.
	13	14	Dk gry lst/dst, 10% vein qtz, 5% siderite(?), fossiliferous. 5% PYRITE. E.O.H
OAC13/1420	0	1	Dk brn clayey soil as slurry.
	1	2	Dk brn clayey soil as slurry.
	2	3	Dk brn clayey soil as slurry.
	3	4	Dk gry lst/dst, mnr vein qtz, mnr qzit.
	4	5	Dk gry lst/dst, 10% vein calcite. E.O.H
OAC13/1480	0	1	Crm fines.
	1	2	Dk gry non calc. chips, dk gry fines.
	2	3	Dk gry non calc. chips, dk gry fines.
	3	4	Dk gry non calc. chips, dk gry fines.
	4	5	Dk gry non calc. chips, dk gry fines.
	5	6	Dk gry lst/dst. 2% PYRITE.
	6	7	Dk gry lst/dst. 2% PYRITE.
	7	8	No Sample.
	8	9	Ple gry lst/dst, stylolitic.
	9	10	Ple gry lst/dst, stylolitic. E.O.H
OAC13/1500	0	1	Brn clayey soil.
	1	2	Brn clayey soil.
	2	3	Brn clayey soil.
	3	3.2	Dk gry lst/dst, probable boulder, brn clayey soil. E.O.H
OAC13/1520	0	1	Brn sandy soil
	1	2	Brn sandy soil
	2	3	Brn sandy soil
	3	4	Brn sandy soil, siliceous chips.
	4	5	Dk gry pitted lst/dst, dk gry fines.
	5	6	PYRITE, poor recovery
	6	7	Dk gry pitted lst/dst, 40% PYRITE.
	7	8	Dk gry pitted lst/dst, 10% quartz, 20% PYRITE.
	8	9	Dk gry pitted lst/dst, 10% vein calcite. 30% PYRITE.
	9	10	Dk gry pitted lst/dst, 20% vein calcite. 20% PYRITE.
	10	11	Dk gry pitted lst/dst. 5% PYRITE.
	11	12	*two samples missing uphole*
	12	13	*two samples missing uphole*
	13	14	Dk gry lst/dst. TRACE PYRITE.
	14	15	Dk gry lst/dst. TRACE PYRITE.

HOLE NO.	FROM	TO	COMMENTS
	15	16	Dk gry lst/dst. TRACE PYRITE.
	16	17	Dk gry lst/dst. 30% PYRITE.
	17	18	Dk gry lst/dst. 30% PYRITE.
	18	19	Dk gry, mid gry lst/dst. TRACE PYRITE.
	19	20	Dk gry, mid gry lst/dst. TRACE PYRITE.
	20	21	Dk gry, mid gry lst/dst. TRACE PYRITE. E.O.H
OAC13/1560	0	1	Dk brn soil.
	1	2	Dk brn soil.
	2	3	Dk brn soil.
	3	4	Dk gry lst/dst.
	4	5	Dk gry lst/dst.
	5	6	Dk gry lst/dst.
	6	7	Dk gry lst/dst.
	7	8	Dk gry, pale gry lst/dst.
	8	9	Dk gry, pale gry lst/dst.
	9	10	Dk gry, pale gry lst/dst.
	10	11	Dk gry, pale gry lst/dst.
	11	12	Dk gry, pale gry lst/dst.
	12	13	Dk gry, pale gry lst/dst. 2% PYRITE.
	13	14	Dk gry, pale gry lst/dst.
	14	15	Dk gry, pale gry lst/dst.
	15	16	Dk gry, mid gry lst/dst., 20% vein calcite.
	16	17	Dk gry, mid gry lst/dst., 10% vein calcite. TRACE PYRITE.
	17	18	Dk gry, mid gry lst/dst., 10% vein calcite. TRACE PYRITE.
	18	19	Dk gry, mid gry lst/dst., 30% vein calcite. E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC14/1200	0	1	Wht vein qtz, dk brn soil. Transported.
	1	2	Mid brn clayey soil.
	2	3	Mid brn clayey soil.
	3	4	Dk gry, dk brn clayey soil.
	4	5	Dk gry clayey fines, mnr weath. lst/dst.
	5	6	Dk gry clayey fines, mnr weath. lst/dst. 80% PYRITE.
	6	7	Dk gry clayey fines, mnr weath. lst/dst. 80% PYRITE.
	7	8	Dk gry clayey fines, mnr weath. lst/dst. 10% PYRITE.
	8	9	Dk brn lst/dst, dk gry fines as slurry.
	9	10	Dk brn lst/dst, dk gry fines as slurry.
	10	11	Dk brn lst/dst, dk gry fines as slurry.
	11	12	Dk brn lst/dst, dk gry fines as slurry.
	12	13	Dk brn lst/dst, 5% vein calcite, dk gry fines as slurry.
	13	14	Dk brn lst/dst, 5% vein calcite, dk gry fines as slurry.
	14	15	Dk brn lst/dst, 20% vein calcite, dk gry fines as slurry.
	15	16	Dk gry lst/dst, common sandy txt dst, 5% vein calcite.
	16	17	Dk gry lst/dst, common sandy txt dst, 50% clear vein qtz.
	17	18	Dk gry lst/dst, common sandy txt dst, 10% clear vein qtz, 10% vein calcite.
	18	19	Dk gry lst/dst, common sandy txt dst, 10% clear vein qtz, 10% vein calcite.
	19	20	Blk clayey mud, few chips.
	20	21	Blk clayey mud, few chips.
	21	22	Dk gry lst/dst.
	22	23	No Sample.
	23	24	Dk gry lst/dst, 10% clear vein qtz.
	24	25	Dk gry lst/dst, 10% clear vein qtz.
	25	26	Dk gry lst/dst, common sandy txt dst.
	26	27	Dk gry lst/dst, common sandy txt dst. E.O.H
OAC14/1240	0	1	Q gravel + bn sandy soil
	1	2	bk calcite rich mud, v few chips
	2	3	bk mud + chips of dk gy - bk silty Lst
	3	4	Lst, silty gy - dk gy, some f cte vn, + Q gravel
	4	4.5	Lst, silty - sandy, gy, mnr cte vn, + Q gravel E.O.H
OAC14/1280	0	1	dk gy - bk mud, v poor sample
	1	2	bk calcite rich mud, poor sample
	2	3	dk gy mud, chips f g bk - gy sandy Lst + calcite vn + py
	3	3.5	Lst, f g dk gy + sandy gy, some Q vn E.O.H
OAC14/1320	0	1	Q gravel, mnr gy sandy Lst, cte vn, poor sample
	1	2	v poor sample
	2	3	v poor sample
	3	4	v poor sample
	4	5	v poor sample
	5	5.7	chips dk gy silty Lst + cte vn, v poor sample E.O.H
OAC14/1400	0	1	No Sample.
	1	2	No Sample.
	2	3	Dk gry lst/dst, abundant fines.
	3	4	No Sample.
	4	5	No Sample.
	5	6	Mid gry lst/dst, dk gry fines. TRACE PYRITE.
	6	7	Mid gry lst/dst, dk gry fines. TRACE PYRITE.
	7	8	Mid gry lst/dst, dk gry fines, 15% vein calcite.
8	9	Mid gry fines, mnr chips.	

HOLE NO.	FROM	TO	COMMENTS
	9	10	Mid gry fines.
	10	11	Mid gry fines.
	11	12	Mid-dk gry lst/dst. TRACE PYRITE.
	12	13	Dk gry lst/dst.
	13	14	Dk gry lst/dst, 20% vein calcite.
	14	15	Dk gry lst/dst, 5% vein calcite. E.O.H
OAC14/1440	0	1	Gry-blk clayey mud.
	1	2	Dk gry weath. lst/dst.
	2	3	Mid gry gritty lst/dst.
	3	4	Mid gry gritty lst/dst.
	4	4.2	Mid gry gritty lst/dst. E.O.H
OAC14/1480	0	1	No Sample.
	1	2	Dk gry puggy weath. lst/dst.
	2	3	Dk gry weath. lst/dst, common sandy txt dst, fossiliferous, abund. dk gry fines.
	3	4	Dk gry weath. lst/dst, common sandy txt dst, fossiliferous, abund. dk gry fines.
	4	5	Dk gry fines.
	5	6	Dk gry fines.
	6	7	Mid gry lst/dst, abundant dk gry fines.
	7	8	Mid gry lst/dst, abundant dk gry fines.
	8	9	Mid gry lst/dst, abundant dk gry fines.
	9	10	Black clay, weath. lst/dst.
	10	11	Dk gry lst/dst, fresh, abundant dk gry fines. E.O.H
OAC14/1520	0	1	No Sample.
	1	2	Dk gry puggy weath. lst/dst, abundant dk gry fines.
	2	3	Dk gry puggy weath. lst/dst, abundant dk gry fines.
	3	4	Dk gry puggy weath. lst/dst, fossiliferous, abundant dk gry fines.
	4	5	Dk gry puggy weath. lst/dst, abundant dk gry fines.
	5	6	Dk gry puggy weath. lst/dst, abundant dk gry fines. TRACE PYRITE. E.O.H
OAC14/1560	0	1	Brn clayey fines.
	1	2	Brn clayey fines.
	2	3	Brn clayey fines.
	3	4	Brn clayey fines.
	4	5	Dk gry non calc. chips, dk gry fines.
	5	6	Dk gry pitted lst/dst.
	6	7	Dk gry lst/dst, 15% vein calcite.
	7	8	Dk gry lst/dst, 40% vein calcite.
	8	9	Dk gry lst/dst, 10% vein calcite.
	9	10	Mid gry, dk gry lst/dst, fossiliferous, 5% vein calcite.
	10	11	Mid gry, dk gry lst/dst, fossiliferous, 30% vein calcite.
	11	12	Dk gry fines, mnr chips.
	12	13	Dk gry fines, mnr chips
	13	13.4	Dk gry lst/dst. abundant dk gry fines. 5% PYRITE. E.O.H

HOLE NO.	FROM	TO	COMMENTS
2			
OAC15/1200	0	1	Q gravel, poor sample
	1	2	dk bn mud, chips dk bn rock + Q gravel, poor sample
	2	3	dk bn mud, chips dk bn rock + Q gravel, poor sample
	3	4	bk - dk gy sandy wthd rock E.O.H
OAC15/1240	0	0.5	no penetration, no sample E.O.H
OAC15/1280	0	1	Q gravel
	1	2	dk bn slurry, chips bn wthd sandy Q rich, + Q gravel
	2	3	dk bn slurry, chips bn wthd sandy Q rich, + Q gravel
	3	4	dk bn slurry, chips bn wthd sandy Q rich, + Q gravel
	4	5	Q greywacke, Q to c sand, mx of bk f wthd rock (dol?) E.O.H
OAC15/1320	0	1	Q gravel + lt bn mud
	1	2	Q gravel + Sst+ lt bn mud
	2	3	Q Sst chips (glacials?) bn slurry
	3	4	Q Sst chips (glacials?) bn slurry
	4	5	Q Sst + Q vn chips (glacials?) + a few bn chips, bn slurry
	5	6	Q Sst - Qtzt lt bn - wh
	6	7	Q Sst - Qtzt lt bn - wh + Q vn
	7	8	Q Sst - Sltst lt bn - wh + Q vn
	8	9	Q Sst - Sltst lt bn - wh + Q vn, dk gy slurry
	9	10	Q Sst - Sltst lt bn - wh + Q vn, dk gy slurry + a few dk gy cte? chips
	10	11	dk gy -bk clayey mud + small chips
	11	12	dk gy -bk clayey mud + small chips
	12	13	dk gy -bk clayey mud + chips dk gy f g Lst + sandy lt gy Lst, some fossil corals
	13	14	dk gy slurry + dk gy sandy Lst, mnr cte vn
	14	15	Lst, dk gy sandy + lt gy f g, fossil fragments, mnr cte vn
	15	16	Lst, dk gy sandy + lt gy f g, fossil fragments, mnr cte vn E.O.H
OAC15/1360			could not be reached
OAC15/1400			could not be reached
OAC15/1440	0	1	Brn soil, siliceous chips. Transported.
	1	2	Brn soil, siliceous chips. Transported.
	2	3	Dk gry weath. non calc lst/dst(?), mnr siliceous chips.
	3	4	Dk gry weath. non calc. lst/dst(?)
	4	5	Mid-dk gry lst/dst, laminated.
	5	6	Mid-dk gry lst/dst, laminated.
	6	7	No Sample.
	7	8	Mid gry lst/dst, abundant mid gry fines.
	8	9	Mid gry lst/dst, abundant mid gry fines.
	9	10	Mid gry lst/dst, abundant mid gry fines. 1% PYRITE.
	10	11	Mid gry lst/dst, abundant mid gry fines. 40% vein calcite.
	11	12	Mid gry lst/dst, abundant mid gry fines. 5% vein calcite.
	12	13	Mid gry lst/dst.
	13	14	Mid gry lst/dst, 20% wht-brn vein calcite.
	14	15	Mid gry, dk gry lst/dst, 15% crm-brn vein calcite.
	15	15.5	Mid gry, dk gry lst/dst, 15% crm-brn vein calcite.E.O.H
OAC15/1480	0	1	No Sample.
	1	2	Blk clayey soil.

HOLE NO.	FROM	TO	COMMENTS
	2	3	Dk gry weath. non calc. lst/dst(?), mnr siliceous chips.
	3	4	Dk gry calc lst/dst.
	4	5	No Sample.
	5	6	Dk gry fines, mnr lst/dst chips.
	6	7	Dk gry fines, mnr lst/dst chips.
	7	8	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	8	9	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	9	10	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	10	11	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	11	12	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	12	13	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	13	14	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	14	15	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	15	16	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	16	17	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	17	18	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	18	19	Mid-dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	19	20	Dk gry lst/dst. 40% PYRITE as nodules and rims.
	20	21	Dk gry lst/dst. 10% PYRITE as nodules and rims.
	21	22	Dk gry lst/dst, ple yellow-crm clayey fines. TRACE PYRITE.
	22	23	Dk gry lst/dst, 30% vein calcite, mnr ple yellow clayey fines.
	23	24	Dk gry lst/dst. 50% CLAYEY IRONSTONE.
	24	25	Dk gry lst/dst. 70% CLAYEY IRONSTONE.
	25	26	100% CLAYEY IRONSTONE.
	26	27	100% PYRITE.
	27	28	100% PYRITE.
	28	29	Mid gry lst/dst, gritty txt.
	29	30	Mid gry lst/dst, 10% vein calcite. 10% PYRITE.
	30	31	Mid gry lst/dst, 10% vein calcite. 10% PYRITE.
	31	32	Mid gry, dk gry lst/dst, 10% vein calcite. Mnr dk gry fines.
	32	33	Yellow-crm fines, mnr dk gry lst/dst.
	33	34	Dk gry lst, mnr dk gry fines, 10% calcite. 5% PYRITE.
	34	35	Yellow-crm fines, mnr dk gry lst/dst, mnr crm lst chips.
	35	36	Dk gry lst, mnr dk gry fines, 10% calcite. 5% PYRITE.
	36	37	40% Dk gry lst/dst, 60% vein calcite, crm fines.
	37	38	Dk gry, ple gry lst/dst, fossiliferous, mnr dk gry fines.
	38	39	30% dk gry lst, 20% buff fossiliferous sst, 50% vein calcite, crm fines.
	39	40	Dk gry lst/dst, mnr fossiliferous qzt sst, crm fines.
	40	41	30% dk gry lst, 20% buff sst, 50% vein calcite, crm fines. 10% PYRITE.
	41	42	Dk gry lst/dst, mnr buff sst, 5% vein calcite, mnr gry fines. 5% PYRITE.
	42	43	Dk gry lst/dst, mnr buff sst, 5% vein calcite, mnr gry fines. 5% PYRITE.
	43	44	Dk gry lst/dst, mnr buff sst, 5% vein calcite, mnr gry fines. 5% PYRITE.
	44	45	Dk gry lst/dst, mnr buff sst, 5% vein calcite, mnr gry fines. 5% PYRITE.
	45	46	Dk gry lst/dst, mnr buff sst, 10% vein calcite, mnr gry fines. 2% PYRITE.
	46	47	Dk gry lst/dst, mnr buff sst, 10% vein calcite, mnr gry fines. 2% PYRITE.
	47	48	Mid gry lst/dst, fossilif. qtz sst, mnr dk gry lst/dst. E.O.H
OAC15/1500	0	1	Brn soil.
	1	2	No Sample.
	2	3	Mid gry non-wkly calc qtz sst.
	3	4	Mid gry non-wkly calc qtz sst.
	4	5	Mid gry non-wkly calc qtz sst.
	5	6	Mid gry non-wkly calc qtz sst.
	6	7	Mid gry non-wkly calc qtz sst.
	7	8	Mid gry non-wkly calc qtz sst.
	8	9	Mid gry non-wkly calc qtz sst., coarse crystalline dol.
	9	10	Mid gry non-wkly calc qtz sst., coarse crystalline dol.
	10	11	Mid gry non-wkly calc qtz sst., coarse crystalline dol.
	11	12	Mid gry non-wkly calc qtz sst., coarse crystalline dol. E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC15/1540	0	1	No Sample.
	1	2	Siliceous chips, brn soil. Transported.
	2	3	Dk gry lst/dst, mnr siliceous chips, dk gry fines.
	3	4	Gry-brn qtz sst, mid gry fines.
	4	5	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	5	6	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	6	7	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	7	8	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	8	9	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	9	10	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	10	11	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	11	12	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	12	13	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	13	14	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	14	15	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	15	16	Brn-dk gry fines, mnr lst chips. TRACE PYRITE.
	16	17	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	17	18	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	18	19	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	19	20	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	20	21	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	21	22	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	22	23	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	23	24	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	24	25	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	25	26	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	26	27	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	27	28	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	28	29	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	29	30	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	30	31	Dk gry-blk chips, mnr dk gry fines. TRACE PYRITE.
	31	32	Dk gry lst/dst, dk gry clayey fines. E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC16/1200	0	1	Q gravel, bk carbonaceous mud + soft chips
	1	2	bk carbonaceous mud + f g soft chips
	2	3	bk mud/slurry + silty black chips
	3	4	bk mud/slurry + silty black chips
	4	5	bk mud
	5	6	bk mud
	6	7	lt bn sandy Q rich chip
	7	8	pl gy mud/slurry, calcite rich
	8	9	pl gy mud/slurry, calcite rich
	9	10	gy -wh clay + f soft wh Lst chips
	10	11	gy -wh clay + f soft wh Lst chips
	11	12	gy -wh clay + f soft wh Lst chips
	12	13	gy -wh clay + f soft wh Lst chips
	13	14	Lst, slty - sandy, gy -wh, soft
	14	15	Lst, slty - sandy, gy, mnr cte vn
	15	16	Lst, slty - sandy, m - dk gy, some lam, mnr cte vn
	16	17	Lst, slty - sandy, m - dk gy, some lam, mnr cte vn
	17	18	Lst, slty - sandy, m - dk gy, some lam, mnr cte vn
18	19	Lst, m gy, slty - sandy, banded (bedding?) in places, some dol? replacement? E.O.H	
OAC16/1240	0	1	no sample
	1	2	Q gravel
	2	3	bk muds + v wthd bk chips
	3	4	bk muds + v wthd bk chips
	4	5	bk muds + v wthd bk chips
	5	6	bk muds + v wthd bk chips
	6	7	bk muds + v wthd bk chips
	7	8	bk muds + v wthd bk chips + Q vn chips
	8	9	Lst, bk sandy, some f diss py
	9	10	Lst, bk sandy, some f diss py
	10	11	Lst, gy sandy - silty E.O.H
OAC16/1280	0	1	Q gravel, lt bn slurry
	1	2	Q gravel + Q Sst, lt bn slurry
	2	3	Q gravel + rare dk sandy chips, lt bn slurry
	3	4	Q greywacke, c sandy Q + dk gy - bn mx, wthd
	4	5	Q greywacke, c sandy Q + dk gy - bn mx, wthd
	5	6	Q greywacke, c sandy Q + dk gy - bn mx, wthd
	6	7	Q rich clastic rock (greywacke), wthd cte? mx
	7	8	Lst, Q rich?, less wthd E.O.H
OAC16/1320	0	1	Q gravel + lt bn Q Sst
	1	2	Q gravel + it bn Q Sst
	2	3	dk gy -bk slurry + rare v wthd cte? chips
	3	4	dk gy -bk slurry + rare v wthd cte? chips
	4	5	dk gy -bk slurry + rare v wthd cte? chips
	5	6	Siderite?, crm - gy speckled, alot of the chips look like cte vn
	6	7	Siderite? + other cte, crm + sandy gy
	7	8	Siderite, crm speckled + gy sandy + dk gy silty
	8	9	Siderite, crm speckled + gy sandy + dk gy silty, some lam bedding
	9	10	Siderite, crm + gy + dk gy, mnr Galena
10	11	Siderite (+ calcite?), crm + gy, soln wthd, mnr Galena, a lot of this looks like intense cte vn	

HOLE NO.	FROM	TO	COMMENTS
	11	12	Siderite (+ calcite?), crm + gy, soln withd, mnr Galena, a lot of this looks like intense cte vn
	12	13	Siderite (+ calcite?), crm + gy, soln withd, mnr Galena, a lot of this looks like intense cte vn
	13	14	Siderite (+ calcite?), crm + gy, soln withd, mnr Galena, a lot of this looks like intense cte vn
	14	15	Siderite (+ calcite?), crm + gy, soln withd, mnr Galena, a lot of this looks like intense cte vn
	15	15.3	Siderite (+ calcite?), crm + gy, soln withd, mnr Galena, a lot of this looks like intense cte vn E.O.H
OAC16/1360	0	1	Q gravel + slurry
	1	2	Q Sltst - Sst + Q gravel + lt bn slurry
	2	3	Q Sltst - Sst + Q gravel + lt bn slurry
	3	4	bk slurry
	4	5	bk slurry + withd lt bn chips
	5	6	bk slurry + dk gy sandy withd cte? chips
	6	7	bk slurry + dk gy - bn sandy (Q rich?) Lst, py in places?
	7	8	bk slurry + dk gy - bn sandy (Q rich?) Lst, py in places?
	8	9	bk slurry + dk gy - bn sandy (Q rich?) Lst, py in places?
	9	10	bk slurry + dk gy - bn sandy (Q rich?) Lst, py in places?
	10	11	Lst, dk gy sandy + calcite vn, py in places
	11	12	Lst, dk gy sandy + calcite vn
	12	13	Lst, dk gy sandy + calcite vn
	13	14	Lst, lt bn - gy, sandy, mnr dk gy bxd Lst, + calcite vn
	14	15	Lst, dk + lt gy, sandy, some cte vn
	15	16	bk - dk gy slurry + v f soft bk chips Lst
	16	17	bk - dk gy slurry + v f soft bk chips Lst
	17	18	bk - dk gy slurry + v f soft bk chips Lst + harder fissile bn - bk shaley Lst
	18	19	Lst gy - bn, sandy, some fossil frags, corals?, Q + cte vn
	19	20	Lst gy - bn, sandy, some fossil frags, corals?, Q + cte vn
	20	21	dk gy calcite rich mud, a few chips of lt gy Lst? + cte vn
	21	22	dk gy calcite rich mud, a few chips of lt gy Lst? + cte vn
	22	23	Lst, gy sandy + f calcite vn
	23	24	Lst, gy sandy + f calcite vn
	24	25	Lst, gy sandy + f calcite vn
	25	26	Lst, c sandy clastic rock with frags of Lst + Q? + bioclasts? in a Lst mx
	26	27	Lst, c sandy clastic rock with frags of Lst + Q? + bioclasts? in a Lst mx E.O.H
OAC16/1400	0	1	No Sample.
	1	2	Brn clayey soil.
	2	3	Dk gry-grn clay.
	3	4	Dk gry-grn clay.
	4	5	Dk gry-grn clay.
	5	6	Dk gry-grn clay.
	6	7	Dk gry weath. lst/dst, dk gry fines.
	7	8	Ple gry lst/dst, 10% vein calcite, mnr dk gry lst/dst, dk gry fines.
	8	9	Dk gry lst/dst, 20% wht vein calcite.
	9	10	Dk gry lst/dst, mnr buff lst, 10% wht vein calcite.
	10	11	Ple gry bioclastic lst/dst, grn clayey fines.
	11	12	Ple gry bioclastic lst/dst, grn clayey fines.
	12	13	Dk gry lst/dst
	13	14	Dk gry lst/dst, 30% ple gry boiclastic lst/dst.
	14	15	Ple gry lst/dt, 5% buff calc. sst.
	15	16	Ple gry bioclastic lst/dst.
	16	17	Dk gry lst/dst, ple gry bioclastic lst/dst.

HOLE NO.	FROM	TO	COMMENTS
	17	18	Dk gry lst/dst, 5% ple gry lst/dst.
	18	19	Ple gry lst/dst, 5% vein calcite.
	19	20	Dk gry lst/dst, 15% ple gry lst/dst.
	20	21	Mid gry lst, 10% vein calcite.
	21	22	Dk gry lst/dst, 5% vein calcite.
	22	23	Dk gry lst/dst, 5% vein calcite.
	23	24	Dk gry lst/dst, 5% vein calcite.
	24	25	Ple gry lst/dst
	25	26	Ple gry lst/dst, 10% dk gry lst/dst, mnr vein calcite.
	26	27	Dk gry lst/dst, fossiliferous, vein calcite.
	27	28	Dk gry lst/dst, 5% ple gry lst/dst, mnr vein calcite.
	28	29	Mid gry lst/dst, 5% vein calcite.
	29	30	Mid gry lst/dst, 5% vein calcite. E.O.H
OAC16/1440	0	1	No Sample
	1	2	No Sample
	2	3	No Sample
	3	4	No Sample
	4	5	No Sample
	5	6	Dk gry weath. lst/dst. Small sample.
	6	7	Dk gry fines.
	7	8	Dk gry lst/dst, abundant dk gry fines.
	8	9	Dk gry lst/dst, gritty txt in part, mnr dk gry fines.
	9	10	Dk gry lst/dst, gritty txt in part, mnr dk gry fines.
	10	11	Dk gry lst/dst, gritty txt in part, mnr dk gry fines.
	11	12	Dk gry lst/dst, gritty txt in part, mnr dk gry fines.
	12	13	Dk gry lst/dst, gritty txt in part, mnr dk gry fines.
	13	14	Dk gry lst/dst, abundant dk gry fines.
	14	15	Dk gry lst/dst, qtz sst, abundant dk gry fines.
	15	16	Dk gry lst/dst, abundant dk gry fines.
	16	17	Dk gry lst/dst, abundant dk gry fines.
	17	18	Dk gry lst/dst, abundant dk gry fines.
	18	19	Dk gry fines.
	19	20	Dk gry fines.
	20	21	Dk gry lst/dst, abundant dk gry fines.
	21	22	Dk gry lst/dst, abundant dk gry fines.
	22	23	Dk gry lst/dst, 5% vein calcite, abundant dk gry fines.
	23	24	Dk gry lst/dst, mnr vein calcite, abundant dk gry fines.
	24	25	Dk gry lst/dst, mnr buff lst/sst.
	25	26	Dk gry lst/dst, mnr buff lst/sst.
	26	27	Dk gry lst/dst, mnr buff lst/sst.
	27	28	Dk gry lst/dst, mnr buff lst/sst.
	28	29	Dk gry lst/dst, mnr vein calcite.
	29	30	Dk gry lst/dst, mnr vein calcite.
	30	31	Dk gry lst/dst, mnr vein calcite.
	31	32	50% buff lst/sst, 50% dk gry lst, mnr limonite staining.
	32	33	Dk gry lst/dst, mnr white puggy fines.
	33	34	Dk gry lst/dst, mnr buff lst/sst.
	34	35	Dk gry lst/dst, mnr buff lst/sst.
	35	36	Dk gry lst/dst, mnr buff lst/sst.
	36	37	Dk gry lst/dst, mnr buff lst/sst, abundant white puggy clay.
	37	38	Dk gry lst/dst, mnr buff lst/sst.
	38	39	Dk gry lst/dst.
	39	40	Dk gry lst/dst, 20% buff lst/sst.
	40	41	Dk gry lst/dst, abundant white puggy clay.
	41	42	Dk gry lst/dst, 5% buff lst/sst.
	42	43	Dk gry lst/dst, 20% buff lst/sst.
	43	44	Buff calc. sst, mnr dk gry lst/dst.
	44	45	Dk gry lst/dst, 20% buff sst.

HOLE NO.	FROM	TO	COMMENTS
	45	46	Dk gry lst/dst, 20% buff sst. E.O.H
OAC16/1480	0	1	No Sample.
	1	2	Mid gry gritty dst, sandy txt.
	2	3	Mid gry gritty dst, sandy txt.
	3	4	Mid gry gritty dst, sandy txt.
	4	5	Mid gry gritty dst, sandy txt.
	5	6	Mid gry gritty dst, sandy txt, 40% vein calcite.
	6	7	Mid gry lst/dst, mnr calcite, mid gry fines.
	7	8	Mid gry lst/dst, mnr calcite, mid gry fines. E.O.H
OAC16/1520	0	1	No Sample
	1	2	Siliceous float. Transported.
	2	3	Ple gry qtz sst, mnr vein qtz-calcite. TRACE PYRITE.
	3	4	Ple gry qtz sst, mnr vein qtz-calcite, abundant mid gry fines.
	4	5	Ple gry qtz sst, mnr vein qtz-calcite, abundant mid gry fines.
	5	6	Ple gry qtz sst, mnr vein qtz-calcite, abundant mid gry fines.
	6	7	Ple gry qtz sst, mnr vein qtz-calcite, abundant mid gry fines.
	7	8	Ple gry qtz sst, mnr vein qtz-calcite, abundant mid gry fines.
	8	9	Ple gry qtz sst, mnr vein qtz-calcite, abundant mid gry fines.
	9	10	Ple gry qtz sst, mnr vein qtz-calcite, abundant mid gry fines.
	10	11	Dk gry qtz sst, abundant dk gry fines.
	11	12	Ple gry-brn qtz sst, ple brn-crm fines.
	12	13	Ple gry-brn qtz sst, ple brn-crm fines.
	13	14	Ple gry-brn qtz sst, ple brn-crm fines.
	14	15	Ple gry-brn qtz sst, ple brn-crm fines.
	15	16	Ple gry-brn qtz sst, ple brn-crm fines.
	16	17	Ple gry-brn qtz sst, ple brn-crm fines.
	17	18	Ple gry-brn qtz sst, ple brn-crm fines.
	18	19	Ple gry-brn qtz sst, ple brn-crm fines.
	19	20	Ple gry-brn qtz sst, ple brn-crm fines.
	20	21	Ple gry-brn qtz sst, ple brn-crm fines.
	21	22	Ple gry-brn qtz sst, ple brn-crm fines. E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC17/1200	0	1	Q gravel + dk gy mud
	1	2	Q gravel + Q Sst + dk gy mud
	2	3	Q Sst, c, dk gy + Q vn/gravel
	3	4	bk mud
	4	5	bk mud + a few Q rich chips
	5	6	bk mud + a few Q rich chips
	6	7	bk mud + a few Q rich chips
	7	8	bk mud + a few Q rich chips
	8	9	bk mud + a few Q rich chips
	9	10	bk slurry/mud + dk gy - bk Q rich chips
	10	11	Q Sst? + mnr Q vn
	11	12	Q Sst? + mnr Q vn
	12	13	Q Sst? + mnr Q vn
	13	14	bk slurry
	14	15	bk slurry
	15	16	bk slurry + silty bk - gy chips
	16	17	bk slurry + silty bk - gy chips
	17	18	bk slurry + fissile silty bk - gy chips
	18	19	bk slurry
	19	20	Lst, bk - gy, f silty, v withd
20	21	bk mud, calcite rich E.O.H	
OAC17/1240	0	2	bk mud, calcite rich, poor sample
	1	2	bk mud, calcite rich, poor sample
	2	3	bk mud, calcite rich, poor sample
	3	3.5	Lst, dk gy silty withd, cte vn E.O.H
OAC17/1280	0	1	bk cte rich mud, + Q gravel + some cte rich gravel
	1	2	bn cte rich mud, + bn Q Slst - Sst + Q gravel
	2	3	bn cte rich mud, + bn Q Slst - Sst + Q gravel
	3	4	lt bn clay/mud
	4	5	lt bn clay/mud + Q Slst - Sst
	5	6	lt bn clay/mud + Q Slst - Sst
	6	7	dk gy - bk slurry
	7	8	dk gy - bk slurry
	8	9	dk gy - bk slurry
	9	10	bk slurry + chips dk gy - bk hard silty cte?
	10	11	bk slurry + chips dk gy - bk hard silty cte?
	11	12	bk slurry + chips dk gy - bk hard silty cte?
	12	13	bk slurry + chips dk gy - bk hard silty cte?
	13	14	bk slurry + chips dk gy - bk hard silty dol
	14	15	bn slurry rare chips
	15	16	Dol, dk gy + Lst, sandy + bk slurry
	16	17	bk - gy cte rich slurry + small Lst chips + cte vn
	17	18	bk - gy cte rich slurry + small Lst chips + cte vn
	18	19	Lst, pl - dk gy + cte vn + pl bn -gy slurry
	19	20	Lst, pl gy, f g, lam (1mm beds) + pl gy slurry
	20	21	Lst, pl - dk gy, f g, rare banding, mnr cte vn
	21	22	Lst, pl - dk gy, f g, rare banding, mnr cte vn
	22	23	Lst, pl - dk gy, f g, rare banding, mnr cte vn
	23	24	Lst, f g, silty, pl - dk gy, mnr cte vn
	24	25	Lst, f g, silty, pl - dk gy, mnr cte vn
25	26	Lst, f g, silty, pl - dk gy, mnr cte vn E.O.H	

HOLE NO.	FROM	TO	COMMENTS
OAC17/1320	0	1	Q gravel
	1	2	Q gravel + bn Sltst
	2	3	Q gravel + bn Sltst
	3	4	dk gy chips + GALENA
	4	5	Siderite + other cte? (Dol?), crm vn like and dk gy, wthd, TR GALENA
	5	6	Siderite + other cte? (Dol?), crm vn like and dk gy, wthd, TR GALENA
	6	7	Siderite, mas wthd, crm and gy
	7	8	Siderite +/- Dol, crm/gy, MNR GALENA (often along edge of chips)
	8	9	Siderite +/- Dol, crm/gy, MNR GALENA
	9	10	Siderite +/- Dol, crm/gy, MNR GALENA
	10	11	Siderite +/- Dol, crm/gy, MNR GALENA
	11	12	Siderite +/- Dol, crm/gy, MNR GALENA
	12	13	Siderite +/- Dol, crm/gy, MNR GALENA
	13	14	Siderite +/- Dol, crm/gy, MNR GALENA
	14	15	Siderite +/- Dol, crm/gy, MNR GALENA
	15	16	gy mud/slurry, wkly reactive
	16	17	gy mud/slurry, wkly reactive
	17	18	gy mud/slurry, wkly reactive
	18	19	gy mud/slurry, wkly reactive
	19	20	gy mud/slurry, wkly reactive
	20	21	gy mud/slurry + a few dk gy Dol? chips
	21	22	gy - bk mud/slurry
	22	23	gy - bk mud/slurry
	23	24	gy mud/slurry + a few dk gy Dol? chips
	24	25	Siderite/Dol?, mas crm (+gy), soln wthd
	25	26	No sample
26	27	No sample E.O.H	
OAC 17/1340	0	1	lt bn calcite rich mud + Q gravel
	1	2	lt bn clay/mud
	2	3	lt bn clay/mud
	3	4	lt bn clay/mud
	4	5	lt bn clay/mud
	5	6	lt bn clay/mud
	6	7	lt bn clay/mud
	7	8	lt bn clay/mud + small chips
	8	9	Dol/Siderite?, lt bn f g chips + lt bn clay
	9	10	beige - gy clay
	10	11	Siderite/Dol? crm/gy silty - sandy, some rd - bn Fe rich patches
	11	12	Siderite/Dol? crm/gy silty - sandy, some rd - bn Fe rich patches
	12	13	Siderite/Dol? crm/gy silty - sandy, some rd - bn Fe rich patches
	13	14	Siderite/Dol? crm/gy silty - sandy, some rd - bn Fe rich patches
	14	15	Siderit, crm chips, many soln pockets to 1mm E.O.H
OAC17/1360	0	1	Q gravel + Q Sst
	1	2	Q gravel + Q Sst
	2	3	Q gravel + Q Sst + gy slurry
	3	4	dk gy slurry + v small dk gy chips
	4	5	dk gy slurry + bk sandy chips
	5	6	dk gy slurry + bk sandy chips
	6	7	dk gy chips, v small poor sample
	7	8	dk gy chips, v small poor sample

HOLE NO.	FROM	TO	COMMENTS
	8	9	bk slurry + dk gy c sandy chips, 1mm soln pockets, v wk reaction to acid, Dol/Siderite?
	9	10	bk slurry + dk gy c sandy chips, 1mm soln pockets, v wk reaction to acid, Dol/Siderite?
	10	11	Siderite/Dol? soln wthd, mnr py
	11	12	Siderite/Dol? soln wthd, mnr cte vn
	12	13	Dol/Siderite? mas gy sandy, soln wthd
	13	14	Lst? (v reactive), mas gy, sandy
	14	15	Lst? (v reactive), mas gy, sandy
	15	16	Lst, dk gy mas, sandy, soln wthd, mnr cte vn
	16	17	Lst, dk gy mas, sandy, soln wthd, abundant calcite vn
	17	18	gy clay
	18	19	Lst, gy mas, sandy
	19	20	Lst, gy mas, sandy
	20	21	Lst, gy mas, sandy
	21	22	Lst, crm (f g) + gy (sandy)
	22	23	Lst, crm (f g) + gy (sandy)
	23	24	Lst small gy chips E.O.H
OAC17/1380	0	1	v poor sample
	1	2	bn - gy slurry, + v wthd gy chips
	2	3	gy clay/mud
	3	4	gy clay/mud
	4	5	gy clay/mud + gy/beige v wthd chips
	5	6	gy clay/mud
	6	7	gy clay/mud
	7	8	gy clay/mud + gy/beige v wthd chips
	8	9	gy clay/mud
	9	10	gy clay/mud
	10	11	gy clay/mud + beige clay pellets
	11	12	gy clay/mud + lt gy/beige sandy Dol/Siderite? chips
	12	13	gy clay/mud + lt gy/beige sandy Dol/Siderite? chips
	13	14	gy clay/mud + lt gy/beige sandy Dol/Siderite? chips
	14	15	gy clay/mud
	15	16	gy clay/mud + bk, soln wthd, sandy,
	16	17	gy clay/mud + bk, soln wthd, sandy,
	17	18	gy clay/mud + bk, soln wthd, sandy,
	18	19	gy clay/mud + beige Dol? chips
	19	20	gy clay/mud + dk gy, v wthd, Dol? chips
	20	21	grey clay/mud
	21	22	grey clay/mud
	22	23	grey clay/mud + small v wthd gy/beige chips
	23	24	grey clay/mud + small v wthd gy/beige chips
	24	25	grey clay/mud + small v wthd dk gy chips
	25	26	grey clay/mud + small v wthd dk gy chips
	26	27	grey clay/mud + small v wthd dk gy chips, wkly reactive Dol/Siderite?
	27	28	dk gy clay/mud + v wthd chips
	28	29	dk gy clay/mud + v wthd chips
	29	30	gy clay/mud
	30	31	f sand, v poor sample
	31	32	gy clay + dk gy v wthd chips
	32	33	gy clay + dk gy v wthd chips E.O.H
OAC 17/1400	0	1	gy - bk slurry

HOLE NO.	FROM	TO	COMMENTS
	1	2	gy - bk slurry + Q vn + Q gravel
	2	3	gy/beige mud/clay
	3	4	gy/beige mud/clay
	4	5	gy/beige clay/mud + beige clay pellets
	5	6	gy/beige clay/mud + beige clay pellets
	6	7	gy/beige mud/clay
	7	8	gy/beige mud/clay
	8	9	gy/beige mud/clay
	9	10	gy/beige mud/clay
	10	11	gy/beige mud/clay
	11	12	gy/beige mud/clay
	12	13	gy/beige mud/clay + v wthd dk gy chips
	13	14	gy/beige mud/clay + wh - gy clay pellets
	14	15	gy/beige mud/clay + wh - gy clay pellets
	15	16	gy/beige mud/clay + wh - gy clay pellets
	16	17	gy/beige mud/clay + v wthd dk gy chips
	17	18	gy/beige mud/clay + v wthd dk gy chips
	18	19	gy/beige mud/clay + wh clay pellets
	19	20	gy/beige mud/clay + wh clay pellets
	20	21	gy/beige mud/clay + wh clay pellets
	21	22	gy/beige mud/clay + wh clay pellets + wh - gy wthd sandy chips
	22	23	gy/beige mud/clay + wh clay pellets + wh - gy wthd sandy chips
	23	24	wh/gy clay + pellets
	24	25	lt gy - wh clay/mud
	25	26	lt gy - wh clay/mud
	26	27	lt gy - wh clay/mud
	27	28	lt gy - wh clay/mud + crm bk (carbonaceous) pellets
	28	29	lt gy - wh clay/mud
	29	30	crm - wh mud/clay + rare v wthd chips (Siderite?)
	30	31	crm - wh mud/clay + rare v wthd chips (Siderite?)
	31	32	crm - wh mud/clay + rare v wthd chips (Siderite?)
	32	33	crm - wh mud/clay + rare v wthd chips (Siderite?)
	33	34	crm - wh mud/clay + rare v wthd chips (Siderite?)
	34	35	crm - wh mud/clay + rare v wthd chips (Siderite?)
	35	36	crm - wh clay/mud rare pellets
	36	37	crm - wh clay/mud rare pellets
	37	38	crm - wh clay/mud rare pellets
	38	39	crm - wh clay/mud rare pellets + v wthd crm sandy chips
	39	40	crm - wh clay/mud rare pellets + v wthd crm sandy chips
	40	41	crm - wh clay/mud rare pellets + v wthd crm sandy chips
	41	42	gy clays E.O.H
OAC17/1440	0	1	Brn qzt gravel.
	1	2	Buff qzit, fine grained.
	2	3	Ple gry qzit, mnr vein calcite.
	3	4	Ple gry qzit, mnr vein calcite.
	4	5	Ple gry qzit, mnr vein calcite.
	5	6	Ple gry qzit, mnr vein calcite.
	6	7	Ple gry qzit, mnr vein calcite.
	7	8	Ple gry qzit, mnr vein calcite.
	8	9	Ple gry qzit, mnr vein calcite.E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC18/1180	0	1	bn - gy slurry + Q + Sst chips
	1	2	v wthd pt bn chips
	2	3	gy slurry/clay
	3	4	dk gy slurry/clay
	4	5	dk gy slurry/clay + small beige/dk gy f g Dol? chips
	5	6	gy slurry
	6	7	Dol?, beige/dk gy + gy slurry E.O.H
OAC18/1220	0	1	gy clay/mud + Q gravel + Q Sst
	1	2	gy slurry
	2	3	gy slurry + bk clay pellets
	3	4	bk - gy slurry + bk clay pellets
	4	5	bk - gy slurry + bk clay pellets
	5	6	bk - gy slurry + bk clay pellets
	6	7	bk - gy slurry + gy - wh clay pellets
	7	8	bk - gy slurry + gy - wh clay pellets
	8	9	bk - gy slurry + gy - wh clay pellets + a few sandy gy chips
	9	10	gy slurry
	10	11	gy v wthd chips
	11	12	gy slurry
	12	13	gy slurry + bk/gy/buff f g hard si chips, some lam, sil Dol?
	13	14	gy slurry + bk/gy/buff f g hard si chips, some lam, sil Dol?
	14	15	gy slurry + bk/gy/buff f g hard si chips, some lam, sil Dol?
	15	16	gy slurry
	16	17	Dol? dk gy v wthd
	17	18	Dol? dk gy v wthd
	18	19	gy slurry/clay
	19	20	bk/buff f g chips
	20	21	Dol, gy - bk, f g, wthd
	21	22	Dol, gy - bk, f g, wthd
	22	23	Dol, gy - bk, f g, wthd
	23	24	Dol, gy - bk, f g, wthd
	24	25	Dol, gy - bk, f g, wthd
	25	26	Dol, gy - bk, f g, wthd
	26	27	Dol, gy, f g, wthd
	27	28	Dol, gy, f g, wthd
	28	29	Dol, dk gy, f g, mas, wthd
	29	30	Dol, lt gy, f g, mas, wthd
	30	31	Dol, lt/dk gy, f g, mas, wthd
	31	32	Dol, lt/dk gy, f g, mas, wthd + mnr Q vn
32	33	gy clay E.O.H	
OAC18/1260	0	1	bk slurry + Q gravel
	1	2	bk slurry + bk, f g, hard chips (sil Dol?)
	2	3	bk slurry + bk, f g, hard chips (sil Dol?)
	3	4	bk slurry + bk, f g, hard chips (sil Dol?)
	4	5	Dol, bk - gy, f g, mas, wthd
	5	6	Dol/Siderite? gy/crm
	6	7	Dol, gy mas, wthd
	7	8	Dol, gy mas, wthd
	8	9	Dol, gy mas, wthd E.O.H
OAC 18/1280	0	1	Q gravel + Q Sst - Sltst
	1	2	Q gravel + Q Sst - Sltst
	2	3	Q gravel + Q Sst - Sltst + bn slurry

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HOLE NO.	FROM	TO	COMMENTS
	3	4	Q gravel + Q Sst - Sltst + f g hard bk chips
	4	5	gy slurry + f g pl gy wthd (-clay) chips
	5	6	gy - bk slurry
	6	7	gy - bk slurry + a few chips
	7	8	gy - bk slurry + Dol, dk/lt gy, f g
	8	9	gy - bk slurry + Dol, dk/lt gy, f g
	9	10	Dol, gy, 30% py in chips
	10	11	Dol, gy, 30% py in chips
	11	12	dk gy clay/mud + wh - gy clay pellets
	12	13	Dol, gy, mas, mnr py
	13	14	dk gy clay a few chips
	14	15	dk gy clay/mud
	15	16	Dol, dk gy - bk, mas, with 2% py
	16	17	Dol, dk gy - bk, mas, with 2% py E.O.H
OAC18/1300	0	1	Q sand + gravel
	1	2	Q sand + gravel + Q bn Sltst
	2	3	Q sand + gravel + Q bn Sltst
	3	4	bk slurry
	4	5	bk slurry + dk gy wthd chips Dol?
	5	6	bk slurry + dk gy wthd chips Dol?
	6	7	bk slurry + bk wthd chips Dol?
	7	8	bk mud/clay
	8	9	bk slurry poor sample
	9	10	no sample E.O.H
OAC18/1320	0	1	Q gravel + bn Q Sltst
	1	2	Q gravel + bn Q Sltst
	2	3	Q gravel + bn Q Sltst
	3	4	bn - gy clay/mud
	4	5	dk gy - bk slurry + bk clay pellets
	5	6	dk gy - bk slurry + bk clay pellets
	6	7	no sample, mnr fine sand
	7	8	no sample, mnr fine sand
	8	9	no sample, mnr fine sand
	9	10	mnr fine sand + small chip sample
	10	11	Siderite, bn(ox)/gy/crm, mas + vn?, wormy texture in places
	11	12	Siderite, bn(ox)/gy/crm, mas + vn?, wormy texture in places
	12	13	Siderite, bn(ox)/gy/crm, mas + vn?, wormy texture in places
	13	14	Siderite, bn(ox)/gy/crm, mas + vn?, wormy texture in places
	14	15	Siderite, bn(ox)/gy/crm, mas + vn?, wormy texture in places
	15	16	Siderite, bn(ox)/gy/crm, mas + vn?, wormy texture in places
	16	17	Siderite, bn(ox)/gy/crm, mas + vn?, wormy texture in places
	17	18	Siderite, bn(ox)/gy/crm, mas + vn?, wormy texture in places E.O.H
OAC 18/1340	0	1	bn slurry + Q gravel + Q bn Sltst - Sst
	1	2	bn slurry + Q gravel + Q bn Sltst - Sst
	2	3	bn slurry + Q gravel + Q bn Sltst - Sst
	3	4	gy slurry + dk gy hard chips
	4	5	gy slurry + dk gy hard chips
	5	6	Siderite, crm/gy, soln wthd + gy slurry
	6	7	Siderite, crm/gy, soln wthd + gy slurry
	7	8	Siderite, crm/gy, soln wthd, some v hard gy chips
	8	9	Siderite?, crm/gy/bn(ox), hard, soln wthd, -ve to acid
	9	10	Siderite?, crm/gy/bn(ox), hard, soln wthd, -ve to acid
	10	11	Siderite?, crm/gy/bn(ox), hard, soln wthd, -ve to acid

HOLE NO.	FROM	TO	COMMENTS
	11	12	Siderite?, crm/gy/bn(ox), hard, soln wthd, -ve to acid, 50% chips are f mas py
	12	13	Siderite?, crm/gy/bn(ox), hard, soln wthd, -ve to acid, 10% chips are f mas py
	13	14	Siderite, gy/bn(ox)
	14	15	Siderite, gy/bn(ox)
	15	16	Siderite, gy/bn(ox), mnr py
	16	17	Siderite, gy/bn(ox)/bk, bk is f g
	17	18	Siderite, gy/bn(ox)/bk, bk is f g E.O.H
OAC18/1370	0	1	Q gravel + Q Sltst + bn - gy slurry
	1	2	gy/bn/ clay/mud, a few chips
	2	3	gy/bn/crm clay/mud + some clay pellets
	3	4	gy/bn/crm clay/mud + some clay pellets
	4	5	gy/bn/crm clay/mud + some clay pellets
	5	6	gy/bn/crm clay/mud + some clay pellets + some f g hard gy chips + some Q v
	6	7	gy/bn/crm clay/mud + some clay pellets + some f g hard gy chips + some Q v
	7	8	Sltst - Sst? f g si, v hard, lt gy - bn + some Q vn
	8	9	Qtzt, f g, v hard, beige - gy, some softer clay chips
	9	10	Sst, Q with felsic mx, buff - gy, with some more si patches
	10	11	Sst, Q with felsic mx, buff - gy, with some more si patches
	11	12	Sst, Q with felsic mx, buff - gy, with some more si patches
	12	13	Sst, Q with felsic mx, buff - gy, with some more si patches
	13	14	Sst, Q with felsic mx, buff - gy, with some more si patches
	14	15	Sst - Qtzt, gy - buff E.O.H
OAC18/1400	0	1	Ple brn sandy soil.
	1	2	Ple brn sandy soil.
	2	3	Dk gry, buff sst.
	3	4	Dk gry-blk fine-med grained sst.
	4	5	Dk gry-blk fine-med grained sst.
	5	6	Dk gry-blk fine-med grained sst.
	6	7	Dk gry-blk fine-med grained sst.
	7	8	Dk gry-blk fine-med grained sst.
	8	9	Dk gry-blk fine-med grained sst.
	9	10	Dk gry-blk fine-med grained sst.
	10	11	Dk gry-blk fine-med grained sst.
	11	12	Dk gry-blk fine-med grained sst.
	12	13	Dk gry-blk fine-med grained sst.
	13	14	Dk gry-blk fine-med grained sst.
	14	15	Ple gry qzit, fine grained.
	15	16	Ple gry qzit, fine grained. E.O.H
OAC 18/1420	0	1	Ple gry qzit.
	1	2	Ple gry qzit.
	2	3	Ple gry qzit.
	3	4	Ple gry qzit.
	4	5	Ple gry qzit.
	5	6	Ple gry qzit. E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC19/1200	0	1	Q gravel
	1	2	Q gravel + gy slurry +v wthd chips
	2	3	gy slurry, v few chips
	3	4	gy slurry, wh clay + Q vn
	4	5	gy - bn slurry + crm/beige wthd Dol? chips (wk +ve to acid)
	5	6	gy slurry + Q vn
	6	7	gy slurry + crm - wh clay pellets
	7	8	gy slurry + Dol/Siderite? crm/bn, soln wthd
	8	9	gy slurry + Dol/Siderite? crm/bn, soln wthd
	9	10	gy slurry, crm/bn clay
	10	11	gy slurry + Q vn + wthd gy cte chips + wh - crm clay
	11	12	gy slurry + Q vn + wthd gy cte chips + wh - crm clay + crm - buff wthd Dol
	12	13	gy slurry + Q vn + wthd gy cte chips + wh - crm clay + crm - buff wthd Dol
	13	14	gy slurry/clay
	14	15	gy clay/mud rare chips as before
	15	16	lt bn - gy slurry/clay, rare chips Dol, sandy, gy - bn, wthd
	16	17	lt bn - gy clay/mud rare chips
	17	18	lt bn - gy slurry/clay, rare chips Dol, sandy, gy - bn, wthd
	18	19	lt bn - gy clay/mud rare chips
	19	20	lt bn - gy clay/mud rare chips
	20	21	lt bn - gy clay/mud rare chips
	21	22	lt bn - gy clay/mud rare chips
	22	23	lt gy - bn + dk gy - bk clays + wh - gy clay pellets
	23	24	lt gy - bn + dk gy - bk clays + wh - gy clay pellets
24	25	lt gy - bn + dk gy - bk clays + wh - gy clay pellets E.O.H	
OAC19/1240	0	1	gy/bn clay/slurry + Q Sst chips
	1	2	gy slurry + chips hard f g bk, sil Dol? (a few chips +ve to acid)
	2	3	gy slurry + chips hard f g bk, sil Dol? (a few chips +ve to acid)
	3	4	bk - gy clay/slurry
	4	5	bk - gy clay/slurry + a few wthd Dol? chips
	5	6	bk - gy slurry
	6	7	bk - gy slurry + a few wthd Dol? chips
	7	8	bk - gy clay/mud
	8	9	bk - gy clay/mud v hard f g, bk/bn/gy/wh sil Dol? chips (-ve to acid)
	9	10	bk - gy clay/mud v hard f g, bk/bn/gy/wh sil Dol? chips (some +ve to acid)
	10	11	bk - gy clay/mud v hard f g, gy sil Dol? chips (some +ve to acid)
	11	12	gy bk clay/mud v few chips
	12	13	Dol, gy - bk, sil, f g
	13	14	Dol, gy - bk, f - m g, soln wthd
	14	15	Dol, gy - bk, f - m g, soln wthd
	15	16	gy - bk clay/mud, v few chips
	16	17	gy - bk clay/mud, v few chips
	17	18	gy - bk clay/mud, v few chips
	18	19	gy - bk clay/mud, v few chips
19	20	gy - bk clay/mud + a few chips of hard gy sil Dol? E.O.H	
OAC19/1280	0	1	gy mud/clay + Q gravel + Q Sst
	1	2	gy mud/clay + Q gravel + Q Sst
	2	3	gy - bn slurry + gy-bk mud/clay
	3	4	gy - bk slurry/clay + rare chips
	4	5	gy - bk slurry/clay + rare chips E.O.H
OAC19/1320	0	1	Q gravel + Q Sst + bn slurry
	1	2	bn/or clay/mud

HOLE NO.	FROM	TO	COMMENTS
	2	3	or/gy/bn/clay pellets
	3	4	gy clays + rare chips, gy, sandy
	4	5	Dol, lt gy, sandy, wthd, mnr cte vn
	5	6	Dol, lt gy, sandy, wthd, mnr cte vn
	6	7	Dol/Siderite?, lt gy -crm, v wthd
	7	8	Dol/Siderite?, lt gy -crm, soln wthd, lots of crm clays
	8	9	gy clay, v few chips
	9	10	gy clay/mud + wh clay pellets
	10	11	gy clay/mud + wh clay pellets
	11	12	gy clay/mud + wh clay pellets
	12	13	gy clay/mud + wh clay pellets
	13	14	gy clay/mud + wh clay pellets + some v wthd gy chips
	14	15	gy clay/mud + wh clay pellets
	15	16	gy clay/mud + wh clay pellets
	16	17	gy clay/mud + wh clay pellets + a few chips of v hard bk f g sil? Dol? (-ve to acid), mnr diss py + f cte vn E.O.H
OAC19/1360	0	1	Q Sst (gravel)
	1	2	Q vn + Q Sst (glacial gravel)
	2	3	lt gy v si chips, Qtzt? or sil Dol?, sandy, soln wthd
	3	4	Qtzt, lt gy, v hard f g
	4	5	Qtzt, lt gy, v hard f g E.O.H
OAC19/1400	0	1	Ple gry qzit.
	1	2	Ple gry qzit.
	2	3	Ple gry qzit, 30% vein qtz.
	3	4	Ple gry qzit.
	4	5	Ple gry qzit.
	5	6	Dk gry qzit.E.O.H
OAC19/1440	0	1	Ple gry qzit.
	1	2	Ple gry qzit.
	2	3	Ple gry qzit.
	3	4	Ple gry qzit.
	4	5	Ple gry qzit. E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC20/1200 10m N of peg	0	1	Q vn + Q Sst (glacials)
	1	2	Q vn + Q Sst (glacials) + gy - bn slurry/mud
	2	3	bn/or clay/mud
	3	4	bn/or/crm clay/mud + clay pellets
	4	5	bn/or/crm clay/mud + clay pellets
	5	6	bn/or/crm clay/mud + clay pellets
	6	7	or clay/mud + clay pellets
	7	8	or clay/mud + clay pellets
	8	9	or clay/mud + rd - pk clay pellets
	9	10	or clay/mud + rd - pk/or clay pellets
	10	11	or clay/mud + or clay pellets
	11	12	or clay/mud + or clay pellets
	12	13	or clay/mud + or clay pellets
	13	14	or clay/mud + or clay pellets + wthd gy Sltst - Sst chips
	14	15	or clay/mud + or clay pellets + or - rd Q Sltst - Sst wthd clay mx
	15	16	or clay/slurry
	16	17	or clay/slurry
	17	18	or clay/slurry E.O.H
OAC20/1240	0	1	gy clays, mnr Q gravel, mnr rd Sst chips
	1	1.5	Sst pk - rd, wthd, Q rich E.O.H
OAC20/1280	0	1	Q Sst (glacials) + gy - bn clay
	1	2	gy/bn clay/mud + Q chips
	2	3	gy/bn clay/mud + gy clay pellets
	3	4	gy/bn clay/mud + gy clay pellets + some buff wthd sandy Dol chips
	4	4.2	Sst, pk - rd, wthd E.O.H
OAC20/1320	0	1	Q gravel + Q Sst (glacials)
	1	2	gy slurry/clay
	2	3	gy slurry/clay + Q gravel + Q Sst (glacials)
	3	4	gy - bn clay/mud
	4	5	gy - bn clay/mud + some clay pellets
	5	6	gy - bn clay/mud + some clay pellets
	6	7	gy - bn clay/mud + some clay pellets
	7	8	gy - bn clay/mud + some clay pellets
	8	9	gy - bn clay/mud + some dk gy clayey chips
	9	10	gy - bn clay/mud, a few chips E.O.H
OAC20/1360	0	1	lt gy slurry + Q sst gravel
	1	2	or/gy clays + some bk clay pellets
	2	3	gy/or clays
	3	4	gy/or clays + some v wthd gy chips
	4	5	gy/or clays, rare wthd chips
	5	6	gy/or clays, some harder chips
	6	7	gy/or clays, some harder chips
	7	8	f gy sandy clay
	8	9	f gy sandy clay, rare chips
	9	10	gy wthd chips (-ve to acid) E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC 21/1200	0	1	gy clay + Q vn + Q Sltst (glacials?)
	1	2	gy clay + Q vn + Q Sltst (glacials?)
	2	3	crm - gy v wthd chips, some green mineral (chlorite?, sericite?)
	3	4	crm - gy v wthd chips, some green mineral (chlorite?, sericite?)
	4	5	Siderite?/Dol?, crm/gy, soln wthd, v wk +ve to acid, mnr gn chlorite?
	5	6	Siderite?/Dol?, crm/gy, soln wthd, v wk +ve to acid, mnr gn chlorite?
	6	7	bk clay, rare bk wthd chips
	7	8	bk clay, rare bk wthd chips
	8	9	bk clay, a few bk shaley, v wthd chips E.O.H
OAC 21/1240	0	1	Q Sst (glacials?)
	1	2	gy - bk silty clay
	2	3	gy - bk + or clay + mnr chips
	3	4	gy - bk clay + wthd Lst? chips
	4	5	gy - bk calcite rich clay, a few chips
	5	6	gy - bk calcite rich clay, a few chips
	6	7	bk calcite rich clays + some bk wthd chips
	7	8	bk/wh clays
	8	9	bk/wh clays + some v hard (sil) bk cte? + some soln wthd chips E.O.H
OAC21/1280	0	1	Q gravel + Q Sst
	1	2	Q + v wthd Sst
	2	3	Sst, gy wthd, mnr Q vn
	3	4	Sst, lt gy, Q in clay mx, wthd
	4	5	Sltst - Sst, bn, Q rich, mx wthd to clay in places
	5	6	Sltst - Sst, bn, Q rich, mx wthd to clay in places
	6	7	Sltst - Sst, bn, Q rich, mx wthd to clay in places
	7	8	Sltst - Sst, bn, Q rich, mx wthd to clay in places
	8	9	Sltst - Sst, bn, Q rich, mx wthd to clay in places
	9	10	Q Sst, mas, gy - bn (ox), mx wthd to clay in places
	10	11	Q Sst, mas, gy - bn (ox), mx wthd to clay in places
	11	12	Q Sst, mas, gy - bn (ox), mx wthd to clay in places
	12	13	Q Sst, mas, gy - bn (ox), mx wthd to clay in places
	13	14	Q Sst, mas, gy - bn (ox), mx wthd to clay in places
	14	15	Q Sst, mas, gy - bn (ox), mx wthd to clay in places
	15	16	Q Sst, mas, gy - bn (ox), mx wthd to clay in places
	16	17	Q Sst, mas, gy - bn (ox), mx wthd to clay in places + mnr Q vn
	17	18	Q Sst, mas, gy - bn(ox), Fs? Mx wthd to clay E.O.H
OAC21/1320	0	1	bk mud, v small sample
	1	2	bk mud + or - bn clay
	2	3	or clay
	3	4	or - bn silty clay, a few or clay pellets
	4	5	or - bn silty clay, a few or clay pellets
	5	6	or - bn silty clay, a few or clay pellets
	6	7	or - bn silty clay, a few or clay pellets + rare Q, Sltst chips
	7	8	or - bn silty clay, a few or clay pellets
	8	9	or - bn silty clay, a few or clay pellets
	9	10	or - bn silty clay + pellets + Q? Sltst - Sst, mx wthd to clay, Fe vn
	10	11	or clay + rare chips (chips possibly just Fe or si rich nodules)
	11	12	or clay + rare chips (chips possibly just Fe or si rich nodules)
	12	13	or clay + rare chips (chips possibly just Fe or si rich nodules)
	13	14	or silty clay + rare harder ox chips
	14	15	or silty clay + rare harder ox chips
15	16	or silty clay + rare harder ox chips	

HOLE NO.	FROM	TO	COMMENTS
	16	17	or silty clay + rare harder ox chips E.O.H
OAC21/1360	0	1	gravel
10m N of peg	1	2	or sandy clay + or - rd clayey wthd chips
	2	3	or sandy clay + or - rd clayey wthd chips
	3	4	or clay + or - rd clayey chips
	4	5	or clay + or - rd clayey chips
	5	6	or clay + or - rd clayey chips
	6	7	or clay + or - rd clayey chips
	7	8	or clay + or - rd clayey chips
	8	9	or clay + chips, + rd/gn clayey Sltst
	9	10	or clay + chips, + rd/gn clayey Sltst
	10	11	or clay + chips, + rd/gn clayey Sltst
	11	12	or clay + chips, + rd/gn clayey Sltst
	12	13	f or clay
	13	14	f or clay
	14	15	f or clay
	15	16	f or clay
	16	17	f or clay + rare rd/gn clayey chips
	17	18	Sltst, rd/gn clayey, Crimson Ck?
	18	19	rd - or silty clay
	19	20	rd/gy silty clay
	20	21	rd - or silty clay + gy pellets
	21	22	rd - or silty clay + gy pellets
	22	23	or silty clay
	23	24	or silty clay + rare rd(gn) clayey chips E.O.H
OAC21/1400	0	1	or silty clay
	1	2	or - bn silty clay + rare or - bn clay pellets
	2	3	or - bn silty clay + rare or - bn clay pellets
	3	4	or - bn silty clay + rare or - bn clay pellets
	4	5	or - bn silty clay + rare or - bn clay pellets
	5	6	or - bn silty clay + rare or - bn clay pellets
	6	7	or - bn silty clay + some or - bn clay pellets
	7	8	or - bn silty clay + some or - bn clay pellets
	8	9	or - bn silty clay + some or - bn clay pellets
	9	10	or - bn silty clay + some or - bn clay pellets
	10	11	or - bn silty clay + some or - bn clay pellets
	11	12	or - bn silty clay + some or - bn clay pellets
	12	13	or - bn silty clay + some or - bn clay pellets
	13	14	or - bn silty clay + or - bn clay chips
	14	15	or - bn silty clay + or - bn clay chips
	15	16	or - bn silty clay + or - bn clay chips
	16	17	or - bn silty clay + or - bn clay chips
	17	18	or - bn silty clay + or - bn clay chips
	18	19	or - bn silty clay + or - bn clay chips
	19	20	or - bn silty clay + or - bn clay chips
	20	21	or - bn silty clay + or - bn clay chips E.O.H
OAC21/1440	0	1	no sample
	1	2	yl - bn silt clay + gravel
	2	3	yl - bn silt clay + fg clayey gy chips
	3	4	yl - bn silt clay + fg clayey gy chips
	4	5	yl - bn silt clay + fg clayey gy chips
	5	6	yl - bn silt clay + fg, clayey, gy - bn, foliated chips
	6	7	yl - bn silt clay + fg, clayey, gy - bn, foliated chips

HOLE NO.	FROM	TO	COMMENTS
	7	8	yl - bn silt clay + f g, clayey, gy - bn, foliated chips
	8	9	yl - bn silt clay + f g, clayey, gy - bn, foliated chips
	9	10	yl - bn silt clay + f g, clayey, gy - bn, foliated chips
	10	11	lt bn silt clay + a few chips
	11	12	bn silty clay + rare f g, gy - bn(ox), wthd (to clay) chips
	12	13	bn silty clay + rare chips
	13	14	bn silty clay + rare chips
	14	15	bn silty clay + rare gy - bn(ox), wthd (to clay), foliated Slst chips
	15	16	bn silty clay + rare gy - bn(ox), wthd (to clay), foliated Slst chips
	16	17	or - bn silty clay + gy - bn(ox), wthd (to clay), foliated Slst chips
	17	18	or - bn silty clay + gy - bn(ox), wthd (to clay), foliated Slst chips
	18	19	or - bn silty clay + gy - bn(ox), wthd (to clay), foliated Slst chips
	19	20	or - bn silty clay + gy - bn(ox), wthd (to clay), foliated Slst chips
	20	21	Slst?, gy - bn(ox), foliated, wthd to clay, in or -bn silty clay E.O.H

HOLE NO.	FROM	TO	COMMENTS
OAC 22/1200	0	1	bn - gy clay silt
	1	2	yl - bn clay silt + Greywacke?, gy - bn(ox) sandy, Q + lithic? grains, mx to clay
	2	3	yl - bn clay silt + Greywacke?, gy - bn(ox) sandy, Q + lithic? grains, mx to clay
	3	4	yl - bn clay silt + Greywacke?, gy - bn(ox) sandy, Q + lithic? grains, mx to clay
	4	5	yl - bn clay silt + Greywacke?, gy - bn(ox) sandy, Q + lithic? grains, mx to clay
	5	6	Greywacke, sandy Q + lithic grains in clay mx, in f gy clay
	6	7	Greywacke, sandy Q + lithic grains in clay mx, in f gy clay
	7	8	Sltst - Mst, gy, f lam, wthd to clay
	8	9	f gy clayey chips
	9	10	f gy clayey chips
	10	11	Mst, gy/dk rd, clayey, in f gy clay
	11	12	Mst - Sltst, dk rd, wthd to clay, Crimson Ck, in df k rd clay
	12	13	Mst - Sltst, dk rd, wthd to clay, Crimson Ck, in df k rd clay
	13	14	Mst - Greywacke, gn - gy (x bedding in some Sltst), in gn - gy clay
	14	15	Mst - Greywacke, gn - gy (x bedding in some Sltst), in gn - gy clay
	15	16	Mst - Greywacke, gn - gy (x bedding in some Sltst), in gn - gy clay
	16	17	Sltst - Mst, gn - gy
17	18	Sltst - Mst, gn - gy E.O.H	
OAC 22/1240	0	1	yl - bn silty clay + chips
	1	2	yl - bn silty clay + chips
	2	3	lt gy - gn clay, silt, chips
	3	4	lt gy - gn clay, silt, chips
	4	5	lt gy - gn clay, silt, chips
	5	6	lt gy - gn clay, silt, chips Q Greywacke, clay mx
	6	7	lt gy - gn clay, silt, chips Q Greywacke, clay mx
	7	8	lt gy - gn clay, silt, chips Q Greywacke, clay mx
	8	9	lt gy - gn clay, silt, chips Q sand grains in clay mx
	9	10	lt gy - gn clay, silt, chips Q sand grains in clay mx
	10	11	Sltst - Mst, gy - gn, wthd to clay
	11	12	gy - gn clay, few chips
	12	13	gy - gn clay, few chips
	13	14	gy - gn clay, few chips
	14	15	Sltst - Mst, gn - gy, wthd to clay
	15	16	Sltst - Mst, gn - gy, wthd to clay
	16	17	Sltst - Mst, gn - gy, wthd to clay
17	18	Greywacke, Q sand in clay mx, gn - gy, some bk Sltst chips, + gy clay E.O.H	
OAC22/1280	0	1	Mnr mid gry shale chips, abundant grn-gry fines. (CCf)
	1	2	Mnr mid gry shale chips, abundant grn-gry fines.
	2	3	Mnr mid gry shale chips, abundant grn-gry fines.
	3	4	Mnr mid gry shale chips, abundant grn-gry fines.
	4	5	Mnr mid gry shale chips, abundant grn-gry fines. TRACE PYRITE.
	5	6	Mnr mid gry shale chips, abundant grn-gry fines.
	6	7	Mnr mid gry shale chips, abundant grn-gry fines.
	7	8	Mnr mid gry shale chips, abundant grn-gry fines.
	8	9	Mnr mid gry shale chips, abundant grn-gry fines.
	9	10	Grn-gry volcanicl. sst, visible xls, dk gry ib shale.
	10	11	Grn-gry volcanicl. sst, visible xls, dk gry ib shale.
	11	12	Grn-gry volcanicl. sst, visible xls, dk gry ib shale.
	12	13	Grn-gry volcanicl. sst, visible xls, dk gry ib shale.
	13	14	Grn-gry volcanicl. sst, visible xls, dk gry ib shale. TRACE PYRITE.
	14	15	Grn-gry volcanicl. sst, visible xls, dk gry ib shale.
	15	16	Grn-gry volcanicl. sst, ple crm vein min.
	16	17	Grn-gry volcanicl. sst, ple crm vein min.
17	18	Grn-gry volcanicl. sst, ple crm vein min, mnr red-brn chips. E.O.H	

HOLE NO.	FROM	TO	COMMENTS
OAC22/1320	0	1	Brn-gry siltst., abundant grn-gry fines.
	1	2	Brn-gry siltst., abundant grn-gry fines.
	2	3	Brn-gry siltst., abundant grn-gry fines.
	3	4	Mid-ple gry sand/shale, abundant grn-gry fines. TRACE PYRITE.
	4	5	Mid-ple gry sand/shale, abundant grn-gry fines.
	5	6	Mid-ple gry sand/shale, mnr vein qtz, abundant grn-gry fines.
	6	7	Mid-ple gry sand/shale, abundant grn-gry fines. 40% PYRITE.
	7	8	Mid-ple gry sand/shale, abundant grn-gry fines. TRACE PYRITE.
	8	9	Mid-ple gry sand/shale, abundant grn-gry fines. TRACE PYRITE.
	9	10	Mid-dk gry shale, abundant grn-gry fines.
	10	11	Mid-dk gry shale, abundant grn-gry fines.
11	12	Mid-dk gry shale, abundant grn-gry fines. E.O.H	
OAC22/1360	0	1	Siliceous chips. Transported.
	1	2	Ple brn sst, abundant ple yell-brn fines.
	2	3	Ple brn sst, abundant ple yell-brn fines.
	3	4	Abundant ochre-red fines, rare ferrug. sst chips.
	4	5	Abundant ochre-red fines, rare ferrug. sst chips.
	5	6	Abundant pnk-brn fines, rare ferrug. sst chips.
	6	7	Abundant pnk-brn fines, rare ferrug. sst chips.
	7	8	Abundant ple brn fines, rare ferrug. sst chips.
	8	9	Abundant ple brn fines, rare ferrug. sst chips.
	9	10	Abundant ple brn fines, rare ferrug. sst chips.
	10	11	Abundant ple brn fines, rare ferrug. sst chips.
	11	12	Abundant ple brn fines, rare ferrug. sst chips.
	12	13	Abundant ple brn fines, rare ferrug. sst chips.
	13	14	Abundant ple brn fines, rare ferrug. sst chips.
	14	15	Abundant ple brn fines, rare ferrug. sst chips.
	15	16	Abundant ple brn fines, rare ferrug. sst chips.
	16	17	Abundant ple brn fines, rare ferrug. sst chips.
	17	18	Abundant ple brn fines, rare ferrug. sst chips.
	18	19	Abundant ple brn fines, rare ferrug. sst chips.
	19	20	Abundant ple brn fines, rare ferrug. sst chips.
	20	21	Abundant ple brn fines, rare ferrug. sst chips.
	21	22	Abundant ple brn fines, rare ferrug. sst chips.
	22	23	Abundant ple brn fines, rare ferrug. sst chips.
	23	24	Abundant ple brn fines, rare ferrug. sst chips.
	24	25	Abundant ple brn fines, rare ferrug. sst chips.
	25	26	Abundant ple brn fines, rare ferrug. sst chips.
	26	27	Abundant ple brn fines, rare ferrug. sst chips.
	27	28	Abundant ple brn fines, rare ferrug. sst chips.
	28	29	Abundant ple brn fines, rare ferrug. sst chips.
29	30	Abundant ple brn fines, rare ferrug. sst chips. E.O.H	
OAC22/1400	0	1	Yellow-orange clay.
	1	2	Yellow-orange clay.
	2	3	Yellow-orange clay, mnr ferrug-siliceous chips.
	3	4	Yellow-orange clay, mnr ferrug-siliceous chips.
	4	5	Yellow-orange clay, mnr ferrug-siliceous chips.
	5	6	Yellow-orange clay, mnr ferrug-siliceous chips.
	6	7	Abundant or-brn fines, mnr ferrug-siliceous chips.
	7	8	Abundant or-brn fines, mnr ferrug-siliceous chips.
	8	9	Abundant or-brn fines, mnr ferrug-siliceous chips.
	9	10	Abundant or-brn fines, mnr ferrug-siliceous chips.
	10	11	Abundant or-brn fines, mnr ferrug-siliceous chips.
	11	12	Abundant or-brn fines, mnr ferrug-siliceous chips.
	12	13	Abundant or-brn fines, mnr ferrug-siliceous chips.
13	14	Abundant or-brn fines, mnr ferrug-siliceous chips.	

HOLE NO.	FROM	TO	COMMENTS
	14	15	Abundant or-brn fines, mnr ferrug-siliceous chips.
	15	16	Abundant or-brn fines, mnr ferrug-siliceous chips.
	16	17	Abundant or-brn fines, mnr ferrug-siliceous chips.
	17	18	Abundant or-brn fines, mnr ferrug-siliceous chips. E.O.H

APPENDIX 8

Aircore Drill Hole Assay Results

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC10/1120	41138	2	4	3	19	556	<1	0.32	9
OAC10/1120	41139	4	6	60	32	783	<1	1.77	18
OAC10/1120	41140	6	8	27	83	926	<1	2.29	23
OAC10/1120	41141	8	10	37	65	1106	<1	2.54	24
OAC10/1120	41142	10	12	24	87	1275	<1	3.39	33
OAC10/1120	41143	12	14	27	55	873	<1	5.24	842
OAC10/1120	41144	14	16	15	24	453	<1	6.72	1780
OAC10/1120	41145	16	18	10	11	392	<1	15	4911
OAC10/1120	41146	18	20	12	23	794	<1	7.64	2399
OAC10/1120	41147	20	21	12	25	694	<1	7.55	2342
OAC10/1160	41128	0	2	2	31	23	<1	0.31	55
OAC10/1160	41129	2	4	16	103	57	<1	0.42	7
OAC10/1160	41130	4	6	23	108	186	<1	0.67	4
OAC10/1160	41131	6	8	32	162	656	1	1.23	75
OAC10/1160	41132	8	10	14	85	367	<1	2.19	477
OAC10/1160	41133	10	12	18	116	572	1	2.25	194
OAC10/1160	41134	12	14	9	40	139	<1	2.26	408
OAC10/1160	41135	14	16	7	13	43	<1	2.16	438
OAC10/1160	41136	16	17	5	25	96	<1	1.87	255
OAC10/1200	41166	0	2	<2	33	36	<1	0.39	38
OAC10/1200	41167	2	4	3	97	97	<1	0.95	471
OAC10/1200	41168	4	5	3	28	50	<1	1.35	412
OAC10/1200	41169	5	5.5	2	57	73	<1	1.04	471
OAC10/1240	41124	0	2	6	50	40	<1	0.36	11
OAC10/1240	41125	2	4	11	90	153	<1	0.59	306
OAC10/1240	41126	4	5	13	607	723	1	0.95	4244
OAC10/1240	41127	5	6	2	731	1117	1	0.88	7300
OAC10/1280	41121	0	2	4	320	437	<1	0.58	1207
OAC10/1280	41123	3	4	13	178	312	<1	0.69	527
OAC10/1320	41117	2	4	9	238	553	1	1.48	798
OAC10/1320	41118	4	6	15	94	219	<1	1.33	154
OAC10/1320	41119	6	7	10	42	93	<1	1.71	248
OAC10/1320	41120	7	8	9	44	96	<1	1.69	310
OAC10/1360	41105	0	2	7	94	111	<1	0.5	132
OAC10/1360	41106	2	4	16	440	1759	2	1.83	49
OAC10/1360	41107	4	6	14	540	2326	2	1.78	41
OAC10/1360	41108	6	8	13	712	2214	2	1.65	189
OAC10/1360	41109	8	10	7	281	767	1	2.43	1327
OAC10/1360	41110	10	12	5	158	777	1	2.11	1578
OAC10/1360	41111	12	14	5	225	1099	1	2.19	2281
OAC10/1360	41112	14	16	12	157	904	1	2.07	1975
OAC10/1360	41113	16	18	5	345	1174	1	1.52	1931
OAC10/1360	41114	18	19	4	223	1722	<1	1.84	7400
OAC10/1360	41115	19	20	5	290	1747	1	1.71	2828
OAC10/1400	41103	0	2	4	85	117	<1	0.36	272
OAC10/1400	41104	2	3	5	166	154	<1	0.42	366
OAC10/1440	41101	0	2	4	227	241	<1	0.39	445
OAC10/1440	41102	2	3	4	215	145	<1	0.49	483
OAC11/1080	41066	0	2	7	52	45	<1	0.33	57
OAC11/1080	41067	2	4	7	75	58	<1	0.43	56
OAC11/1080	41068	4	6	7	58	40	<1	0.29	23
OAC11/1080	41069	6	8	14	136	1235	<1	1.13	51
OAC11/1080	41070	8	10	19	193	1790	<1	1.73	36

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC11/1080	41071	10	12	20	231	1557	<1	3.75	45
OAC11/1080	41072	12	14	21	212	2042	<1	1.78	38
OAC11/1080	41073	14	16	22	240	2826	<1	2.62	36
OAC11/1080	41074	16	18	23	155	1892	<1	2.4	48
OAC11/1080	41075	18	20	28	77	466	<1	1.99	38
OAC11/1080	41076	20	22	21	75	440	<1	2.41	50
OAC11/1080	41077	22	24	22	144	948	<1	2.7	50
OAC11/1080	41078	24	26	23	104	774	<1	2.51	62
OAC11/1080	41079	26	28	23	80	524	<1	2.25	60
OAC11/1080	41080	28	30	22	111	383	<1	15.1	2882
OAC11/1080	41081	30	32	14	79	291	<1	28	11400
OAC11/1080	41093	32	34	13	332	2911	<1	29.2	12300
OAC11/1080	41094	34	36	15	329	3270	<1	23.9	10300
OAC11/1080	41095	36	38	15	174	1200	<1	15.8	6600
OAC11/1080	41096	38	40	19	96	466	<1	10.4	3583
OAC11/1080	41097	40	42	11	53	161	<1	6.64	2461
OAC11/1080	41098	42	44	14	69	250	<1	8.14	2728
OAC11/1080	41099	44	46	15	92	290	<1	8.55	2999
OAC11/1080	41100	46	48	22	50	128	<1	6.97	2391
OAC11/1080	41201	47	48	31	34	48	<1	4.22	1211
OAC11/1120	41037	0	2	9	51	32	<1	0.37	35
OAC11/1120	41038	2	4	9	60	19	<1	0.35	22
OAC11/1120	41039	4	6	17	97	40	1	0.34	18
OAC11/1120	41040	6	7	22	159	353	1	1.37	34
OAC11/1120	41042	8	10	20	148	427	<1	1.53	27
OAC11/1120	41043	10	12	28	78	247	<1	1.76	35
OAC11/1120	41044	12	14	47	169	635	<1	2.19	31
OAC11/1120	41045	14	16	38	309	1230	<1	2.26	26
OAC11/1120	41046	16	18	29	375	2048	<1	6.11	27
OAC11/1120	41047	18	20	26	201	659	<1	3.8	157
OAC11/1120	41048	20	22	14	180	868	<1	3.61	681
OAC11/1120	41049	22	24	16	222	1592	<1	7.72	575
OAC11/1120	41050	24	26	19	196	1469	<1	4.84	603
OAC11/1120	41051	26	28	11	163	967	<1	1.55	537
OAC11/1120	41052	28	30	10	99	356	<1	0.83	302
OAC11/1120	41053	30	32	10	86	337	<1	1.31	462
OAC11/1120	41054	32	33	9	58	167	<1	0.62	192
OAC11/1160	41149	0	2	11	152	358	2	0.54	99
OAC11/1160	41150	2	4	7	91	265	2	0.43	52
OAC11/1160	41151	4	6	7	82	181	2	0.28	29
OAC11/1160	41152	6	8	9	51	95	2	0.51	115
OAC11/1160	41153	8	10	8	59	64	3	0.29	53
OAC11/1160	41154	10	12	32	169	216	4	1.17	73
OAC11/1160	41155	12	14	32	123	254	2	1.76	147
OAC11/1160	41156	14	16	26	111	218	1	3	55
OAC11/1160	41157	16	18	21	1210	3891	4	2.85	47
OAC11/1160	41158	18	20	24	569	2566	<1	2.1	55
OAC11/1160	41159	20	22	20	509	1853	<1	2.64	179
OAC11/1160	41160	22	24	13	386	1703	2	2.41	538
OAC11/1160	41161	24	25	6	236	927	1	1.83	471
OAC11/1160	41162	25	26	6	178	661	1	1.92	412
OAC11/1200	41189	0	2	10	626	1131	1	1.25	702
OAC11/1200	41190	2	4	7	378	970	1	0.8	133

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC11/1200	41191	4	6	17	693	3294	2	3.15	50
OAC11/1200	41192	6	8	16	588	3247	2	2.88	58
OAC11/1200	41193	8	10	18	865	4834	2	3.14	92
OAC11/1200	41194	10	11	16	731	3623	2	2.98	132
OAC11/1200	41195	11	12	14	461	2369	1	2.22	280
OAC11/1240	41011	0	2	14	336	831	<1	1.08	71
OAC11/1240	41012	2	4	16	369	1729	<1	2.04	57
OAC11/1240	41013	4	5	13	153	2250	<1	1.97	17
OAC11/1240	41014	5	6	12	113	1299	<1	1.64	30
OAC11/1240	41015	6	8	15	146	1164	<1	1.75	66
OAC11/1240	41016	8	9	16	220	1275	<1	2	65
OAC11/1240	41017	9	10	14	369	1641	<1	2.11	2167
OAC11/1280	41170	0	2	5	34	384	<1	3.34	1099
OAC11/1280	41171	2	4	10	148	1403	1	1.67	268
OAC11/1280	41172	4	6	18	595	1082	1	2.35	35
OAC11/1280	41173	6	7	24	283	728	<1	2.49	390
OAC11/1360	41148	1	2	51	358	1024	<1	1.71	950
OAC11/1400	41182	0	2	53	10700	3864	14	6.75	11300
OAC11/1400	41183	2	4	25	8100	5900	9	12	12600
OAC11/1400	41184	4	6	18	4495	4827	7	9.43	21200
OAC11/1400	41185	6	8	7	1350	2768	3	5.26	7600
OAC11/1400	41186	8	10	4	540	962	1	1.73	1882
OAC11/1400	41187	10	11	6	737	1445	2	1.7	2266
OAC11/1400	41188	11	12	2	275	804	1	0.79	1231
OAC11/1440	41196	0	2	590	34700	1418	170	1.26	2351
OAC11/1440	41197	2	4	72	7100	2738	10	3.94	24000
OAC11/1440	41198	4	5	69	22800	3183	18	20.2	16900
OAC11/1440	41199	5	6	22	8800	2660	5	3.87	11000
OAC11/1480	41174	0	2	<2	17	40	<1	0.25	44
OAC11/1480	41175	2	4	<2	25	53	<1	0.41	94
OAC11/1480	41176	4	6	11	103	49	<1	0.35	46
OAC11/1480	41177	6	8	15	185	681	1	1.47	176
OAC11/1480	41178	8	10	35	302	502	<1	1.4	145
OAC11/1480	41179	10	12	17	220	506	1	1.77	100
OAC11/1480	41180	12	14	7	164	794	1	2.32	593
OAC11/1480	41181	14	15	9	327	2817	1	2.25	522
OAC12/1200	41212	0	2	61	325	618	<1	0.63	27
OAC12/1200	41213	2	4	48	383	1588	<1	1.42	82
OAC12/1200	41214	4	6	40	305	1356	<1	0.97	14
OAC12/1200	41215	6	8	46	322	1234	<1	1.03	19
OAC12/1200	41216	8	10	51	308	1069	<1	0.94	26
OAC12/1200	41217	9	10	41	357	1670	<1	1.59	68
OAC12/1240	41209	4	6	32	1537	2473	<1	3.47	47
OAC12/1240	41210	6	8	18	262	1256	<1	2.51	137
OAC12/1240	41211	8	9	11	151	555	<1	1.8	169
OAC12/1280	41202	0	2	10	78	49	<1	1.03	18
OAC12/1280	41203	2	4	28	28	440	<1	2.7	36
OAC12/1280	41204	4	6	25	25	587	<1	3.71	36
OAC12/1280	41205	6	8	20	20	624	<1	3.58	46
OAC12/1280	41206	7	8	16	16	1082	<1	3.28	47
OAC12/1320	41086	0	2	10	68	127	<1	0.64	19
OAC12/1320	41087	2	4	18	410	264	<1	0.86	12
OAC12/1320	41088	4	6	9	235	879	<1	3.83	2295

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC12/1320	41089	6	8	10	296	770	<1	1.86	1281
OAC12/1320	41090	8	9	10	486	840	<1	1.09	513
OAC12/1360	41091	0	2	7	45	98	<1	0.86	155
OAC12/1400	41082	0	2	9	170	240	<1	1.16	402
OAC12/1400	41083	2	4	9	127	219	<1	1.99	929
OAC12/1400	41084	4	6	9	129	342	<1	2.07	1033
OAC12/1400	41085	5	6	11	156	442	<1	2.58	1014
OAC12/1440	41001	2	4	11	132	130	<1	0.55	43
OAC12/1440	41003	6	8	30	245	397	<1	1.05	224
OAC12/1440	41004	8	10	15	128	367	<1	1.01	812
OAC12/1440	41005	10	12	10	57	216	<1	1.04	835
OAC12/1440	41006	12	14	10	50	98	<1	0.51	292
OAC12/1440	41007	14	16	12	53	734	<1	1.1	1327
OAC12/1440	41008	16	18	11	248	1174	<1	1.31	1067
OAC12/1440	41009	18	20	8	348	885	<1	0.83	627
OAC12/1440	41010	20	21	7	201	750	<1	0.7	455
OAC12/1480	41018	0	2	22	62	184	<1	0.85	67
OAC12/1480	41019	2	4	15	49	165	<1	1.51	280
OAC12/1480	41020	4	6	16	54	108	<1	1.6	329
OAC12/1480	41021	6	8	14	50	126	<1	1.76	261
OAC12/1480	41022	8	10	15	58	195	<1	1.59	299
OAC12/1480	41023	9	10	14	55	213	<1	1.34	283
OAC12/1520	41024	0	2	8	178	389	<1	0.59	399
OAC12/1520	41025	2	4	8	260	694	<1	0.62	515
OAC12/1520	41026	3	4	8	345	655	<1	0.52	281
OAC13/1200	41233	0	2	13	234	885	<1	2.12	276
OAC13/1200	41234	2	4	6	121	2691	<1	2.2	92
OAC13/1240	41329	0	2	12	84	215	<1	1.86	608
OAC13/1240	41330	2	4	11	81	48	<1	1	209
OAC13/1240	41331	4	6	20	72	3	<1	1.04	194
OAC13/1240	41332	6	7.5	12	74	13	<1	1.1	241
OAC13/1240	41333	7	7.5	8	77	19	<1	1.06	248
OAC13/1280	41218	0	2	3	73	45	<1	9.13	6600
OAC13/1280	41219	2	4	4	72	41	<1	1.45	808
OAC13/1280	41220	3	4	4	64	39	<1	1.16	791
OAC13/1320	41221	0	2	7	86	66	<1	1.43	917
OAC13/1320	41222	2	4	5	136	72	<1	0.83	410
OAC13/1320	41223	4	6	6	132	72	<1	0.76	387
OAC13/1320	41224	6	8	10	325	534	<1	1.57	911
OAC13/1320	41225	8	10	8	365	1256	<1	1.87	1013
OAC13/1320	41226	10	12	5	322	804	<1	1.27	823
OAC13/1320	41227	12	14	6	259	664	<1	1.67	814
OAC13/1320	41228	14	16	13	918	1950	<1	3.23	1984
OAC13/1320	41229	16	18	16	1114	2952	<1	2.31	1324
OAC13/1320	41230	18	20	16	1210	4479	<1	3.51	4398
OAC13/1320	41231	20	22	10	748	6600	<1	8.16	12000
OAC13/1320	41232	22	23	15	623	6400	<1	7.51	8700
OAC13/1360	41247	0	2	23	259	279	<1	1.16	350
OAC13/1360	41248	1	2	19	187	222	<1	0.91	310
OAC13/1400	41236	0	2	17	917	460	<1	2.11	814
OAC13/1400	41237	2	4	21	7500	789	8	3.17	2215
OAC13/1400	41238	4	6	39	4941	1150	11	3.97	1626
OAC13/1400	41239	6	8	41	17000	1937	23	6.44	4644

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC13/1400	41240	8	10	43	17600	3085	28	9.04	26500
OAC13/1400	41241	10	12	42	11200	3107	19	4.98	11700
OAC13/1400	41242	12	14	25	4456	2846	9	3.53	8000
OAC13/1400	41243	13	14	18	3065	2276	6	2.54	4699
OAC13/1420	41244	0	2	51	4791	1693	11	3.51	2592
OAC13/1420	41245	2	4	8	568	437	<1	1.64	1524
OAC13/1420	41246	4	5	6	202	370	<1	0.78	711
OAC13/1480	41979	0	2	4	26	64	<1	0.76	41
OAC13/1480	41980	2	4	18	894	3100	<1	2.12	35
OAC13/1480	41981	4	6	14	315	1839	1	1.88	34
OAC13/1520	41055	0	2	13	24	31	<1	0.5	29
OAC13/1520	41056	2	4	13	119	192	<1	1.06	22
OAC13/1520	41057	4	6	17	545	2383	<1	1.6	401
OAC13/1520	41058	6	8	11	280	1847	<1	4.15	557
OAC13/1520	41059	8	10	9	167	1735	<1	2.42	646
OAC13/1520	41060	10	12	11	232	1957	<1	2.8	539
OAC13/1520	41061	12	14	11	187	1564	<1	2.16	530
OAC13/1520	41062	14	16	7	129	1460	<1	1.92	774
OAC13/1520	41063	16	18	8	137	1070	<1	1.6	512
OAC13/1520	41064	18	20	6	87	361	<1	0.85	584
OAC13/1520	41065	20	21	7	157	512	<1	1.14	609
OAC13/1560	41027	0	2	25	117	101	<1	0.6	32
OAC13/1560	41028	2	4	31	175	871	<1	1.08	179
OAC13/1560	41029	4	6	11	53	435	<1	1.34	681
OAC13/1560	41030	6	8	9	135	985	<1	1.67	1425
OAC13/1560	41031	8	10	7	84	1443	<1	1.04	1199
OAC13/1560	41032	10	12	7	84	614	<1	0.78	638
OAC13/1560	41033	12	14	7	57	1271	<1	0.58	804
OAC13/1560	41034	14	16	8	85	1535	<1	0.71	800
OAC13/1560	41035	16	18	11	36	203	<1	1.24	1080
OAC13/1560	41036	18	19	8	34	202	<1	0.74	628
OAC14/1200	41259	0	2	25	156	120	3	0.52	101
OAC14/1200	41260	2	4	20	168	72	1	0.44	83
OAC14/1200	41261	4	6	58	2899	8100	7	4.5	66
OAC14/1200	41262	6	8	34	1587	6400	5	3.04	69
OAC14/1200	41263	8	10	44	512	1430	2	2.56	60
OAC14/1200	41264	10	12	30	220	905	<1	2.77	155
OAC14/1200	41265	12	14	12	77	272	<1	2.02	381
OAC14/1200	41266	14	16	12	61	93	<1	1.06	236
OAC14/1200	41267	16	18	14	63	278	<1	2.37	320
OAC14/1200	41268	18	20	11	70	148	<1	1.55	420
OAC14/1200	41269	20	22	16	76	355	<1	2.26	589
OAC14/1200	41270	22	24	19	43	387	<1	1.85	193
OAC14/1200	41271	24	26	11	56	94	<1	1.81	496
OAC14/1200	41272	25	26	6	41	34	<1	1.4	457
OAC14/1240	41256	0	2	11	83	113	1	0.51	41
OAC14/1240	41257	2	4	9	82	88	<1	0.98	163
OAC14/1240	41258	4	5	10	75	164	<1	1.81	509
OAC14/1280	41249	0	2	10	273	503	<1	0.59	2044
OAC14/1280	41250	2	4	7	265	1244	<1	0.73	1107
OAC14/1280	41251	3	4	7	305	1294	<1	0.78	845
OAC14/1320	41252	0	2	12	327	291	2	0.54	197
OAC14/1400	40044	2	4	6	110	717	<1	1.39	1181

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC14/1400	40045	4	6	15	653	1028	<1	1.55	535
OAC14/1400	40046	6	8	7	115	250	<1	0.81	590
OAC14/1400	40047	8	10	9	83	185	<1	1.01	735
OAC14/1400	40048	10	12	8	129	585	<1	1.07	1001
OAC14/1400	40049	12	13	5	70	157	<1	0.85	621
OAC14/1440	41950	0	2	12	231	445	<1	1.37	461
OAC14/1440	41951	2	4	8	105	201	<1	1.63	1227
OAC14/1440	41952	3	4	7	78	62	<1	0.73	350
OAC14/1480	40050	0	2	5	91	782	<1	0.81	945
OAC14/1480	40051	2	4	4	148	762	<1	0.62	829
OAC14/1480	40052	4	6	4	82	593	<1	0.74	922
OAC14/1480	40053	6	8	3	88	614	<1	1.22	1703
OAC14/1480	40054	8	10	5	89	633	<1	0.99	1224
OAC14/1480	40055	10	11	6	95	186	<1	0.74	531
OAC14/1520	40056	0	2	9	58	683	<1	1.69	1657
OAC14/1520	40057	2	4	5	53	666	<1	1.37	1207
OAC14/1520	40058	4	6	4	46	347	<1	3.27	2891
OAC14/1520	40059	5	6	9	44	352	<1	1.82	1526
OAC14/1560	41982	0	2	13	245	1720	1	1.37	1093
OAC14/1560	41983	2	4	9	211	1170	1	2.74	2062
OAC14/1560	41984	4	6	7	229	808	<1	14.6	12100
OAC14/1560	41985	6	8	6	135	685	<1	1.61	1683
OAC14/1560	41986	8	10	5	50	289	<1	0.83	1007
OAC14/1560	41987	10	12	5	524	1435	<1	1.83	4004
OAC14/1560	41988	12	14	9	356	1500	1	1.78	3614
OAC14/1560	41989	13	14	8	386	1622	<1	1.71	4179
OAC15/1200	41273	0	2	21	1295	716	2	0.89	128
OAC15/1200	41274	2	4	23	2080	3033	3	1.75	57
OAC15/1200	41275	3	4	27	828	789	<1	1.36	84
OAC15/1280	41277	0	2	17	434	278	<1	0.57	50
OAC15/1280	41278	2	4	13	125	368	<1	0.72	56
OAC15/1280	41279	4	5	12	531	1096	<1	1.22	63
OAC15/1320	41343	0	2	8	90	216	<1	0.49	558
OAC15/1320	41344	2	4	14	198	60	2	0.55	208
OAC15/1320	41345	4	6	10	172	52	1	0.36	163
OAC15/1320	41346	6	8	15	211	135	2	0.38	149
OAC15/1320	41347	8	10	14	203	276	1	0.49	31
OAC15/1320	41348	10	12	28	746	1092	<1	0.85	52
OAC15/1320	41349	12	14	28	558	1016	<1	1.52	518
OAC15/1320	41350	14	16	14	240	510	<1	1.64	838
OAC15/1320	41351	15	16	13	217	669	<1	2.09	1307
OAC15/1440	40034	0	2	8	122	40	<1	0.71	47
OAC15/1440	40035	2	4	16	197	498	<1	3.47	7300
OAC15/1440	40036	4	6	7	103	628	<1	3.41	1790
OAC15/1440	40037	6	8	12	184	924	<1	2.02	2033
OAC15/1440	40038	8	10	6	70	206	<1	1.41	980
OAC15/1440	40039	10	12	6	68	282	<1	1.21	776
OAC15/1440	40040	12	14	4	873	815	<1	2.94	6900
OAC15/1440	40041	14	16	5	593	592	<1	1.75	2447
OAC15/1440	40042	15	16	7	659	757	1	1.52	2587
OAC15/1480	40009	0	2	12	193	2624	<1	13.7	14500
OAC15/1480	40010	2	4	27	454	3337	<1	7.31	8900
OAC15/1480	40011	4	6	17	332	1861	<1	2.51	3321

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC15/1480	40012	6	8	14	250	1182	<1	1.74	1815
OAC15/1480	40013	8	10	12	168	915	<1	2.35	2380
OAC15/1480	40014	10	12	7	72	533	<1	1.38	1220
OAC15/1480	40015	12	14	6	66	636	<1	1.36	1196
OAC15/1480	40016	14	16	7	243	1547	<1	3.26	2317
OAC15/1480	40017	16	18	9	266	1729	<1	3.78	2322
OAC15/1480	40018	18	20	6	123	1063	<1	4.65	2083
OAC15/1480	40019	20	22	7	125	800	<1	3.39	3139
OAC15/1480	40020	22	24	9	91	435	<1	2.09	1321
OAC15/1480	40022	26	28	12	314	8600	<1	19.5	722
OAC15/1480	40023	28	30	6	27	609	<1	1.58	871
OAC15/1480	40024	30	32	9	97	1120	<1	1.71	946
OAC15/1480	40025	32	34	7	96	664	<1	1.81	1136
OAC15/1480	40026	34	36	5	107	968	<1	1.94	1748
OAC15/1480	40027	36	38	4	72	477	<1	1.79	1393
OAC15/1480	40028	38	40	5	107	1037	<1	1.21	935
OAC15/1480	40029	40	42	4	86	690	<1	2.11	775
OAC15/1480	40030	42	44	3	102	634	<1	2.5	1482
OAC15/1480	40031	44	46	6	156	792	<1	2.65	951
OAC15/1480	40032	46	48	5	120	820	<1	2.39	783
OAC15/1480	40033	47	48	7	88	464	<1	1.48	572
OAC15/1500	41926	0	2	12	92	86	1	0.67	62
OAC15/1500	41977	0	2	5	120	521	<1	0.57	365
OAC15/1500	41927	2	4	13	494	799	2	1.23	810
OAC15/1500	41978	2	3	7	192	610	<1	0.69	448
OAC15/1500	41928	4	6	30	927	2414	2	1.4	696
OAC15/1500	41929	6	8	15	471	1339	2	1.99	956
OAC15/1500	41930	8	10	17	526	1580	3	2.61	1466
OAC15/1500	41931	10	12	18	527	1731	4	2.03	934
OAC15/1500	41932	11	12	19	570	1588	4	1.99	900
OAC15/1540	41990	0	2	6	121	225	<1	0.59	33
OAC15/1540	41991	2	4	13	139	1540	<1	1.02	34
OAC15/1540	41992	4	6	23	157	1203	2	1.62	38
OAC15/1540	41993	6	8	28	254	2672	1	3.22	39
OAC15/1540	41994	8	10	25	720	8200	2	1.58	37
OAC15/1540	41995	10	12	19	92	2705	<1	3.65	38
OAC15/1540	41996	12	14	20	83	1362	<1	2.45	45
OAC15/1540	41997	14	16	21	60	2406	<1	2.78	57
OAC15/1540	41998	16	18	22	72	930	<1	2.75	51
OAC15/1540	41999	18	20	21	42	822	<1	3.02	60
OAC15/1540	42000	20	22	22	68	2541	<1	2.38	60
OAC15/1540	40001	24	26	23	61	1931	<1	2.21	64
OAC15/1540	40002	26	28	21	39	1757	<1	7.17	2692
OAC15/1540	40003	28	30	18	43	1426	<1	8.79	3586
OAC15/1540	40004	30	32	17	51	847	<1	12.2	6000
OAC15/1540	40005	32	34	17	39	950	<1	16	8300
OAC15/1540	40006	34	36	18	70	1158	<1	14.1	6400
OAC15/1540	40007	36	38	18	70	943	<1	15.1	8300
OAC15/1540	40008	37	38	22	105	1988	<1	12.8	7100
OAC16/1200	41313	0	2	28	226	1526	<1	2.86	127
OAC16/1200	41314	2	4	33	120	1513	<1	2.51	60
OAC16/1200	41315	4	6	23	73	1329	<1	2.53	57
OAC16/1200	41316	6	8	31	141	5800	<1	3.4	1694

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC16/1200	41317	8	10	7	102	505	<1	1.43	2142
OAC16/1200	41318	10	12	3	85	164	<1	0.83	906
OAC16/1200	41319	12	14	19	62	150	<1	1.78	1440
OAC16/1200	41320	14	16	15	65	76	<1	2.12	1713
OAC16/1200	41321	16	18	11	62	75	<1	2.06	1231
OAC16/1200	41322	17	18	11	63	80	<1	1.98	1212
OAC16/1200	41323	18	19	12	65	72	<1	1.83	1229
OAC16/1240	41307	0	2	10	123	20	3	0.47	43
OAC16/1240	41308	2	4	26	1380	696	5	0.68	25
OAC16/1240	41309	4	6	34	2182	3939	3	2.61	42
OAC16/1240	41310	6	8	29	917	5600	1	3.61	62
OAC16/1240	41311	8	10	32	656	4990	<1	2.88	104
OAC16/1240	41312	10	11	10	97	330	<1	1.63	454
OAC16/1280	41302	0	2	9	99	61	3	0.4	36
OAC16/1280	41303	2	4	12	504	554	1	0.44	29
OAC16/1280	41304	4	6	12	360	2221	1	0.73	34
OAC16/1280	41305	6	8	11	156	619	<1	0.66	219
OAC16/1280	41306	7	8	6	115	379	<1	0.97	568
OAC16/1320	41334	0	2	9	316	517	1	0.61	757
OAC16/1320	41335	2	4	35	4372	22600	3	2.27	1064
OAC16/1320	41336	4	6	10	1567	9300	1	26.3	74100
OAC16/1320	41337	6	8	22	3910	13300	4	11.9	31800
OAC16/1320	41338	8	10	23	10000	14500	9	7.85	32200
OAC16/1320	41339	10	12	20	9100	15000	7	21.5	11200
OAC16/1320	41340	12	14	25	23000	15800	14	22.1	11400
OAC16/1320	41341	14	15.3	78	8600	45900	8	23.1	93200
OAC16/1320	41342	15	15.3	43	12700	22900	15	21.7	92800
OAC16/1360	41503	0	2	7	66	42	<1	0.34	167
OAC16/1360	41504	2	4	16	191	1603	<1	1.89	100
OAC16/1360	41505	4	6	21	249	2509	<1	1.97	121
OAC16/1360	41506	6	8	24	350	2360	<1	6.64	8200
OAC16/1360	41507	10	12	8	195	1273	<1	6.32	10500
OAC16/1360	41508	12	14	7	162	719	<1	4.45	7200
OAC16/1360	41509	14	16	9	209	946	<1	3.93	6500
OAC16/1360	41510	16	18	7	168	680	<1	3.12	4118
OAC16/1360	41511	18	20	10	184	881	<1	3.26	6200
OAC16/1360	41512	20	22	7	189	1486	<1	3.85	7700
OAC16/1360	41513	22	24	6	152	875	<1	3.33	4969
OAC16/1360	41514	24	26	7	295	878	<1	1.55	2317
OAC16/1360	41515	26	27	8	169	555	<1	1.24	2009
OAC16/1400	41962	0	2	6	43	21	1	0.37	33
OAC16/1400	41963	2	4	15	232	1556	<1	1.43	54
OAC16/1400	41965	6	8	13	236	1654	<1	1.97	727
OAC16/1400	41966	8	10	10	123	644	<1	1.81	868
OAC16/1400	41967	10	12	7	124	652	<1	1.13	580
OAC16/1400	41968	12	14	8	113	577	<1	1.64	602
OAC16/1400	41969	14	16	8	222	1232	<1	1.21	893
OAC16/1400	41970	16	18	7	50	462	<1	1.42	1088
OAC16/1400	41971	18	20	8	43	359	<1	1.27	848
OAC16/1400	41972	20	22	7	32	185	<1	0.68	474
OAC16/1400	41973	22	24	9	44	347	<1	1.18	663
OAC16/1400	41974	24	26	8	40	178	<1	0.65	525
OAC16/1400	41975	26	28	6	68	448	<1	0.79	543

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC16/1400	41976	27	28	6	48	177	<1	0.7	526
OAC16/1440	41953	0	2	12	189	1672	<1	4.55	2902
OAC16/1440	41954	2	4	12	171	1151	<1	4.76	2742
OAC16/1440	41955	4	6	11	146	1369	<1	4.71	2145
OAC16/1440	41956	6	8	12	156	255	<1	0.89	159
OAC16/1440	41957	8	10	15	124	318	<1	1.09	67
OAC16/1440	41958	10	12	18	155	1981	<1	5.78	2309
OAC16/1440	41959	12	14	12	156	922	<1	2.27	1675
OAC16/1440	41960	14	16	9	134	625	<1	1.45	1099
OAC16/1440	41961	16	18	8	147	1105	<1	3.81	1990
OAC16/1480	41945	0	2	10	240	967	<1	1.11	938
OAC16/1480	41946	2	4	10	315	2046	<1	1.9	1501
OAC16/1480	41947	4	6	8	170	787	<1	1.78	1423
OAC16/1480	41948	6	8	8	150	990	<1	2.12	1784
OAC16/1480	41949	7	8	10	290	462	<1	2.15	570
OAC16/1520	41933	0	2	14	258	317	2	1.15	326
OAC16/1520	41934	2	4	14	328	1739	2	1.15	230
OAC16/1520	41935	4	6	11	129	1137	2	0.82	171
OAC16/1520	41936	6	8	13	109	779	2	0.85	107
OAC16/1520	41937	8	10	12	119	1319	<1	0.72	89
OAC16/1520	41938	10	12	16	171	1295	2	0.82	54
OAC16/1520	41939	12	14	16	315	1423	2	1	97
OAC16/1520	41940	14	16	15	82	1049	2	0.53	40
OAC16/1520	41941	16	18	11	80	1255	<1	0.34	23
OAC16/1520	41942	18	20	10	137	1250	2	0.32	21
OAC16/1520	41943	20	22	14	257	1567	2	0.36	19
OAC16/1520	41944	21	22	16	80	1288	1	0.38	21
OAC17/1200	41799	0	2	54	35400	23400	21	1.15	146
OAC17/1200	41800	2	4	65	35000	42600	24	2.45	83
OAC17/1200	41901	4	6	52	18200	26000	16	3.42	72
OAC17/1200	41902	6	8	40	9000	15300	8	3.64	70
OAC17/1200	41903	8	10	39	10000	17300	9	3.71	87
OAC17/1200	41904	10	12	39	10200	20600	8	3.27	118
OAC17/1200	41905	12	14	32	2106	5800	2	2.86	199
OAC17/1200	41906	14	16	34	1826	4430	1	3.52	148
OAC17/1200	41907	16	18	34	1482	3385	2	3.43	184
OAC17/1200	41908	18	20	31	1875	3608	2	2.73	320
OAC17/1200	41909	20	21	30	524	1171	1	2.01	343
OAC17/1240	41910	0	2	25	319	493	<1	1.82	402
OAC17/1240	41911	2	3.5	22	273	251	<1	1.18	219
OAC17/1280	41912	0	2	14	112	82	<1	0.67	94
OAC17/1280	41913	2	4	16	127	44	3	0.46	36
OAC17/1280	41914	4	6	47	3235	8200	5	2.06	40
OAC17/1280	41915	6	8	40	3212	12200	5	2.87	57
OAC17/1280	41916	8	10	30	1880	8000	5	5.41	3777
OAC17/1280	41917	10	12	28	1532	6000	3	7.97	8300
OAC17/1280	41918	12	14	23	481	1627	2	11	13100
OAC17/1280	41919	14	16	24	239	1052	1	10.7	13500
OAC17/1280	41920	16	18	17	436	1680	1	6.19	8500
OAC17/1280	41921	18	20	14	501	2424	1	2.12	2812
OAC17/1280	41922	20	22	11	275	1708	1	1.13	1623
OAC17/1280	41923	22	24	14	191	586	<1	1.4	1512
OAC17/1280	41924	24	26	12	131	277	<1	0.99	956

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC17/1280	41925	25	26	11	142	287	1	0.62	561
OAC17/1320	41540	0	2	17	2122	1193	3	6.95	1253
OAC17/1320	41541	2	4	103	98000	6500	167	21.9	17800
OAC17/1320	41542	4	6	50	22800	11900	31	26.4	60400
OAC17/1320	41543	6	8	33	8600	13400	7	31.8	81300
OAC17/1320	41544	8	10	25	4004	9700	4	32.7	94600
OAC17/1320	41545	10	12	24	5200	14900	4	26.4	71600
OAC17/1320	41546	12	14	20	7000	9800	5	30.1	90200
OAC17/1320	41547	14	16	17	8500	7700	3	26.6	75500
OAC17/1320	41548	16	18	30	2384	4022	1	16.6	35200
OAC17/1320	41549	18	20	22	852	2614	<1	11.9	23900
OAC17/1320	41550	20	22	17	401	2452	<1	12.4	25300
OAC17/1320	41551	22	24	16	247	1943	<1	11.8	21800
OAC17/1320	41552	24	26	13	1200	9300	<1	21.5	94100
OAC17/1320	41553	26	27	28	456	4759	3	8.38	22000
OAC17/1340	41532	0	2	23	685	549	<1	0.96	656
OAC17/1340	41533	2	4	21	1479	4981	1	14.9	14100
OAC17/1340	41534	4	6	23	1659	9000	2	9.58	11500
OAC17/1340	41535	6	8	26	2007	11000	3	7.43	11500
OAC17/1340	41536	8	10	23	1032	7300	2	12.5	20100
OAC17/1340	41537	10	12	20	1973	8300	3	21.7	33900
OAC17/1340	41538	12	14	17	2050	7300	3	21.6	32800
OAC17/1340	41539	14	15	16	2988	6500	9	16.2	24100
OAC17/1360	41369	0	2	7	215	538	<1	2.13	2620
OAC17/1360	41370	2	4	25	3941	19800	4	3.71	2610
OAC17/1360	41371	4	6	16	867	7400	2	16.1	20500
OAC17/1360	41372	6	8	17	837	6900	<1	14.6	18800
OAC17/1360	41373	8	10	12	283	2308	<1	21.2	27800
OAC17/1360	41374	10	12	7	267	2681	<1	13	15500
OAC17/1360	41375	12	14	8	153	1356	<1	9.83	12600
OAC17/1360	41376	14	16	24	1769	13700	<1	11.5	13400
OAC17/1360	41377	16	18	12	174	1659	<1	9.21	14000
OAC17/1360	41378	18	20	6	196	1517	<1	4.85	7600
OAC17/1360	41379	20	22	6	172	1371	<1	6.03	7600
OAC17/1360	41380	22	24	9	394	4512	<1	5.33	5900
OAC17/1360	41381	23	24	7	243	1917	<1	4.7	4996
OAC17/1380	41352	0	2	14	173	651	<1	3.14	3439
OAC17/1380	41353	2	4	14	278	2780	<1	3.9	2141
OAC17/1380	41354	4	6	15	212	2009	<1	8.91	6700
OAC17/1380	41355	6	8	14	210	2127	<1	10.9	8300
OAC17/1380	41356	8	10	15	209	2408	<1	13.2	10500
OAC17/1380	41357	10	12	11	188	2080	<1	15	12900
OAC17/1380	41358	12	14	10	208	1914	<1	19.9	17100
OAC17/1380	41359	14	16	6	247	2078	<1	21.4	19000
OAC17/1380	41360	16	18	12	191	1821	<1	9.11	7600
OAC17/1380	41361	18	20	15	141	1926	<1	10.8	9400
OAC17/1380	41362	20	22	13	157	2351	<1	12.8	12500
OAC17/1380	41363	22	24	20	137	1680	<1	10.9	9100
OAC17/1380	41364	24	26	14	160	1819	<1	12.4	9900
OAC17/1380	41365	26	28	14	119	1538	<1	10.5	7400
OAC17/1380	41366	28	30	17	161	1359	<1	7.1	4003
OAC17/1380	41367	30	32	16	117	1274	<1	9.22	6600
OAC17/1380	41368	32	33	17	72	1049	<1	9.11	4410

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC17/1400	41281	2	4	70	356	11100	<1	4.16	1273
OAC17/1400	41282	4	6	116	132	7700	<1	1.47	330
OAC17/1400	41283	6	8	54	309	5500	<1	1.34	344
OAC17/1400	41284	8	10	33	188	3852	<1	1.11	168
OAC17/1400	41285	10	12	23	251	3959	<1	1.16	156
OAC17/1400	41286	12	14	20	151	2311	<1	1.2	128
OAC17/1400	41287	14	16	20	142	3489	<1	1.13	91
OAC17/1400	41288	16	18	20	161	2636	3	1.16	133
OAC17/1400	41289	18	20	13	206	925	2	1.08	184
OAC17/1400	41290	20	22	10	182	602	1	0.8	71
OAC17/1400	41291	22	24	14	191	1137	1	1.22	108
OAC17/1400	41292	24	26	13	176	631	2	0.94	128
OAC17/1400	41293	26	28	14	196	629	2	0.93	111
OAC17/1400	41294	28	30	13	245	404	2	1.09	135
OAC17/1400	41295	30	32	10	179	266	1	0.77	89
OAC17/1400	41296	32	34	8	208	190	<1	0.9	101
OAC17/1400	41297	34	36	10	165	193	<1	0.81	99
OAC17/1400	41298	36	38	10	241	54	<1	0.64	44
OAC17/1400	41299	38	40	12	175	61	<1	0.63	41
OAC17/1400	41300	40	42	15	249	337	1	0.86	49
OAC17/1400	41301	41	42	13	250	1220	1	1.05	48
OAC17/1440	41794	0	2	9	26	15	<1	0.5	32
OAC17/1440	41795	2	4	25	61	88	<1	0.65	36
OAC17/1440	41796	4	6	13	60	92	<1	0.51	28
OAC17/1440	41797	6	8	14	68	778	<1	0.58	31
OAC17/1440	41798	8	9	27	125	384	<1	0.56	38
OAC18/1180	41382	0	2	25	318	4275	1	8.99	11900
OAC18/1180	41383	2	4	15	100	6600	<1	18.1	30000
OAC18/1180	41384	4	6	14	85	3357	<1	21.7	38900
OAC18/1180	41385	6	7	15	80	3204	<1	18.4	39200
OAC18/1220	41386	0	2	17	1523	9900	<1	20.5	27100
OAC18/1220	41387	2	4	32	287	2331	<1	4.52	4438
OAC18/1220	41388	4	6	26	186	1827	<1	2.63	1066
OAC18/1220	41389	6	8	21	430	2757	<1	3.2	1969
OAC18/1220	41390	8	10	23	409	3114	<1	11.1	10500
OAC18/1220	41391	10	12	16	129	1069	<1	19.1	20600
OAC18/1220	41392	12	14	15	60	1049	<1	9.43	9100
OAC18/1220	41393	14	16	18	53	753	<1	4.73	3312
OAC18/1220	41394	16	18	16	54	450	<1	6.05	4292
OAC18/1220	41395	18	20	13	59	294	<1	7.28	4980
OAC18/1220	41396	20	22	13	58	182	<1	6.1	3506
OAC18/1220	41397	22	24	10	58	101	<1	4.43	2545
OAC18/1220	41398	24	26	17	63	75	<1	5.97	3227
OAC18/1220	41399	26	28	13	60	79	<1	12.4	90000
OAC18/1220	41400	28	30	11	73	137	<1	9.2	6500
OAC18/1220	41501	30	32	12	94	253	<1	15.4	10300
OAC18/1220	41502	32	33	14	111	520	<1	12.8	9200
OAC18/1260	41768	0	2	13	70	306	<1	4.66	2899
OAC18/1260	41769	2	4	14	689	255	1	1.36	739
OAC18/1260	41770	4	6	23	6700	9600	2	17.9	29300
OAC18/1260	41771	6	8	15	1689	6600	1	25.3	34800
OAC18/1260	41772	8	9	15	1234	8600	<1	30	38600
OAC18/1280	41759	0	2	14	55	50	<1	0.54	272

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC18/1280	41760	2	4	17	128	245	1	0.54	156
OAC18/1280	41761	4	6	22	272	5000	1	13.2	15000
OAC18/1280	41762	6	8	20	164	3646	<1	18.8	19500
OAC18/1280	41763	8	10	36	719	3678	1	21.5	16200
OAC18/1280	41764	10	12	19	106	2608	1	22.9	25200
OAC18/1280	41765	12	14	28	342	2625	<1	25.7	18800
OAC18/1280	41766	14	16	22	340	2362	1	25.2	17100
OAC18/1280	41767	16	17	19	281	2559	<1	25.9	17200
OAC18/1320	41749	0	2	18	131	95	<1	0.65	266
OAC18/1320	41750	2	4	30	11100	9600	7	0.68	232
OAC18/1320	41751	4	6	78	61500	12800	54	0.97	299
OAC18/1320	41752	6	8	93	95200	68700	48	2.77	1467
OAC18/1320	41753	8	10	44	18900	167000	37	16.5	10800
OAC18/1320	41754	10	12	37	11900	22900	5	34.4	52500
OAC18/1320	41755	12	14	27	9300	21000	6	36	47500
OAC18/1320	41756	14	16	31	7700	14300	6	34.4	65900
OAC18/1320	41757	16	18	19	3154	13300	4	33.8	85200
OAC18/1320	41758	17	18	19	3697	17900	4	34.3	83500
OAC18/1340	41654	0	2	13	44	90	<1	0.43	31
OAC18/1340	41655	2	4	17	3576	43500	2	4.8	122
OAC18/1340	41656	4	6	16	3868	41800	4	22.3	46400
OAC18/1340	41657	6	8	14	2423	23500	2	35.4	51100
OAC18/1340	41658	8	10	19	3204	19300	2	35.2	20200
OAC18/1340	41659	10	12	19	2161	14000	<1	32.6	20700
OAC18/1340	41660	12	14	16	655	22400	1	37.9	30000
OAC18/1340	41661	14	16	17	481	8200	1	34.3	31800
OAC18/1340	41662	16	18	18	496	5600	1	30.3	30700
OAC18/1340	41663	17	18	15	434	6000	<1	31.1	34400
OAC18/1370	41646	0	2	17	282	3965	<1	19.1	18000
OAC18/1370	41647	2	4	67	623	4101	<1	12.8	6000
OAC18/1370	41648	4	6	39	1020	2751	<1	6.78	3129
OAC18/1370	41649	6	8	29	1626	1861	<1	3.82	2807
OAC18/1370	41650	8	10	28	1857	1572	1	3.86	2974
OAC18/1370	41651	10	12	25	901	1285	<1	2.03	1579
OAC18/1370	41652	12	14	18	383	801	<1	1.21	989
OAC18/1370	41653	14	15	24	391	664	<1	1.17	847
OAC18/1400	41713	0	2	13	48	31	<1	0.49	30
OAC18/1400	41714	2	4	25	204	168	2	0.54	24
OAC18/1400	41715	4	6	22	202	652	2	0.86	37
OAC18/1400	41716	6	8	17	469	1426	3	1.12	31
OAC18/1400	41717	8	10	20	257	1107	3	0.98	29
OAC18/1400	41718	10	12	19	276	1222	3	1.16	28
OAC18/1400	41719	12	14	31	119	426	1	0.98	25
OAC18/1400	41720	14	16	21	73	169	2	0.63	46
OAC18/1400	41721	15	16	22	124	322	2	0.77	34
OAC18/1420	41783	0	2	17	159	50	<1	1.28	89
OAC18/1420	41784	2	4	26	64	156	<1	1.02	58
OAC18/1420	41785	4	6	24	36	71	<1	0.85	52
OAC18/1420	41786	5	6	36	30	57	<1	0.9	47
OAC19/1200	41722	0	2	16	91	8700	2	11.7	25300
OAC19/1200	41723	2	4	24	206	12900	2	15.3	32500
OAC19/1200	41724	4	6	30	439	9900	4	10.3	19400
OAC19/1200	41725	6	8	44	712	10200	4	11.5	23000

217175

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC19/1200	41726	8	10	28	421	4147	4	22	56800
OAC19/1200	41727	10	12	23	201	4300	1	8.1	19900
OAC19/1200	41728	12	14	26	289	8500	2	12.5	34900
OAC19/1200	41729	14	16	11	77	8700	2	19.4	58400
OAC19/1200	41730	16	18	11	75	9200	2	18.3	58100
OAC19/1200	41731	18	20	12	48	13900	2	20.6	73100
OAC19/1200	41732	20	22	36	336	11600	1	13.4	43300
OAC19/1200	41733	22	24	38	401	11200	2	10.3	31000
OAC19/1200	41734	23	24	48	632	12700	2	9.78	29500
OAC19/1240	41738	0	2	21	245	7900	2	10.1	16100
OAC19/1240	41739	2	4	23	474	8400	2	13.1	7100
OAC19/1240	41740	4	6	20	305	7300	1	20.5	12100
OAC19/1240	41741	6	8	23	179	5500	<1	17.5	10400
OAC19/1240	41742	8	10	22	183	3989	1	18.2	12700
OAC19/1240	41743	10	12	19	199	3906	1	20.3	15500
OAC19/1240	41744	12	14	17	233	3523	2	20.5	15300
OAC19/1240	41745	14	16	26	255	4081	1	20.6	16600
OAC19/1240	41746	16	18	26	302	4168	1	20.7	16600
OAC19/1240	41747	18	20	23	495	3259	1	23.2	16400
OAC19/1240	41748	19	20	22	392	3114	1	23	16200
OAC19/1280	41664	0	2	17	215	2429	<1	13.8	11200
OAC19/1280	41665	2	4	21	344	2598	1	14.5	11700
OAC19/1280	41666	4	5	20	321	2825	<1	16.9	13100
OAC19/1320	41773	0	2	17	191	313	1	1.74	1108
OAC19/1320	41774	2	4	43	7600	2520	2	1.23	234
OAC19/1320	41775	4	6	34	6000	8100	2	21.7	8100
OAC19/1320	41776	6	8	29	5600	9100	2	28.1	10600
OAC19/1320	41777	8	10	28	3821	6400	3	18.2	6900
OAC19/1320	41778	10	12	27	3535	6000	2	18.3	6900
OAC19/1320	41779	12	14	22	1612	3333	1	15.9	5900
OAC19/1320	41780	14	16	20	1188	2930	1	18.5	7000
OAC19/1320	41781	16	18	21	763	2278	<1	18.3	6700
OAC19/1320	41782	17	18	26	528	1602	<1	13.6	3840
OAC19/1360	41735	0	2	23	300	338	1	2.53	685
OAC19/1360	41736	2	4	22	967	2106	<1	6.28	2100
OAC19/1360	41737	4	5	21	720	1496	1	2.81	1035
OAC19/1400	41787	0	2	17	63	41	<1	1.94	88
OAC19/1400	41788	2	4	67	55	124	<1	0.92	50
OAC19/1400	41789	4	6	25	25	112	<1	0.91	51
OAC19/1400	41790	5	6	25	31	147	<1	0.88	51
OAC19/1440	41791	0	2	16	87	55	<1	0.68	35
OAC19/1440	41792	2	4	11	17	21	1	0.43	15
OAC19/1440	41793	4	5	11	21	24	<1	0.6	21
OAC20/1200	41678	0	2	29	448	2645	<1	4.92	8300
OAC20/1200	41679	2	4	25	351	1735	<1	2.05	1600
OAC20/1200	41680	4	6	22	295	1191	<1	1.84	514
OAC20/1200	41681	6	8	26	833	4009	1	9.6	3416
OAC20/1200	41682	8	10	21	603	3056	1	8.7	3439
OAC20/1200	41683	10	12	22	804	3175	2	10.1	2610
OAC20/1200	41684	12	14	26	771	3080	4	11.5	1744
OAC20/1200	41685	14	16	33	833	2688	2	9.85	786
OAC20/1200	41686	16	18	28	670	1881	2	6.48	547
OAC20/1200	41687	17	18	23	650	1880	<1	6.41	508

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC20/1240	41676	0	1.5	35	361	1475	<1	8.11	7200
OAC20/1240	41677	1	1.5	32	702	3919	<1	7.08	13000
OAC20/1280	41673	0	2	40	105	306	<1	4.2	1337
OAC20/1280	41674	2	4.2	38	240	576	<1	8.82	3604
OAC20/1280	41675	4	4.2	38	218	611	<1	10.3	4968
OAC20/1320	41667	0	2	39	72	46	<1	4.98	1060
OAC20/1320	41668	2	4	63	67	93	<1	8.83	1294
OAC20/1320	41669	4	6	78	61	151	<1	8.21	1168
OAC20/1320	41670	6	8	73	41	132	<1	11.4	2768
OAC20/1320	41671	8	10	76	21	130	<1	13.9	3021
OAC20/1320	41672	9	10	77	18	122	<1	13.7	3203
OAC20/1360	41688	0	2	40	425	1111	<1	3.12	399
OAC20/1360	41689	2	4	49	539	856	<1	16	2065
OAC20/1360	41690	4	6	56	44	157	<1	15.2	1933
OAC20/1360	41691	6	8	53	52	138	<1	18.8	2610
OAC20/1360	41692	8	10	51	90	240	<1	14.2	1832
OAC20/1360	41693	9	10	59	38	110	<1	13.4	1955
OAC21/1200	41600	0	2	24	1950	2593	3	3.25	3513
OAC21/1200	41601	2	4	83	1259	1822	1	8.57	4642
OAC21/1200	41602	4	6	178	848	1547	<1	11.3	5900
OAC21/1200	41603	6	8	88	444	1404	<1	11.7	6500
OAC21/1200	41604	8	9	69	200	752	<1	7.65	3250
OAC21/1240	41595	0	2	31	2315	7900	6	9.24	28000
OAC21/1240	41596	2	4	46	15500	11400	12	16.1	47400
OAC21/1240	41597	4	6	47	8900	18800	8	21.4	63700
OAC21/1240	41598	6	8	76	8800	31600	12	16.8	36800
OAC21/1240	41599	8	9	54	9100	10700	11	17.2	10800
OAC21/1280	41703	0	2	28	719	1840	2	4.8	7600
OAC21/1280	41704	2	4	66	1615	2336	2	7.48	9500
OAC21/1280	41705	4	6	80	1614	1645	5	4.98	4008
OAC21/1280	41706	6	8	44	864	1289	2	6.83	1059
OAC21/1280	41707	8	10	47	954	1068	2	5	1056
OAC21/1280	41708	10	12	27	455	917	1	3.58	2468
OAC21/1280	41709	12	14	18	192	696	<1	3.08	1067
OAC21/1280	41710	14	16	15	95	298	<1	2.08	448
OAC21/1280	41711	16	18	16	97	551	<1	2.03	1350
OAC21/1280	41712	17	18	17	88	510	1	1.9	1336
OAC21/1320	41694	0	2	48	494	1236	<1	7.27	3252
OAC21/1320	41695	2	4	39	849	1677	<1	8.96	11500
OAC21/1320	41696	4	6	34	866	1874	<1	9.13	4745
OAC21/1320	41697	6	8	27	911	2634	1	13.6	14500
OAC21/1320	41698	8	10	24	839	2602	1	11.9	8400
OAC21/1320	41699	10	12	31	1052	2975	1	13.7	9800
OAC21/1320	41700	12	14	34	921	2950	1	11.1	9800
OAC21/1320	41701	14	16	35	661	1786	<1	7.04	4806
OAC21/1320	41702	16	17	40	674	1803	2	6.33	13000
OAC21/1360	41582	0	2	23	329	615	<1	3.84	2757
OAC21/1360	41583	2	4	23	135	509	<1	4.38	1199
OAC21/1360	41584	4	6	21	18	305	<1	4.15	422
OAC21/1360	41585	6	8	26	25	303	<1	4.3	648
OAC21/1360	41586	8	10	24	55	317	<1	4.1	661
OAC21/1360	41587	10	12	22	19	302	<1	4.5	590
OAC21/1360	41588	12	14	21	19	338	<1	4.39	888

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC21/1360	41589	14	16	20	25	304	<1	4.63	923
OAC21/1360	41590	16	18	21	17	291	<1	4.54	747
OAC21/1360	41591	18	20	33	16	752	<1	8.12	15700
OAC21/1360	41592	20	22	32	15	533	<1	7.09	1385
OAC21/1360	41593	22	24	23	15	365	<1	4.8	684
OAC21/1360	41594	23	24	29	14	337	<1	4.66	679
OAC21/1400	41571	0	2	37	51	402	<1	4.45	630
OAC21/1400	41572	2	4	29	39	375	<1	4.58	553
OAC21/1400	41573	4	6	28	31	398	<1	4.65	790
OAC21/1400	41574	6	8	25	33	332	<1	4.12	603
OAC21/1400	41575	8	10	26	26	304	<1	4.19	458
OAC21/1400	41576	10	12	27	23	302	<1	4.31	445
OAC21/1400	41577	12	14	31	28	321	<1	4.58	443
OAC21/1400	41578	14	16	22	22	296	<1	4.01	417
OAC21/1400	41579	16	18	21	22	265	<1	4.35	381
OAC21/1400	41580	18	20	22	29	298	<1	4.44	369
OAC21/1400	41581	20	21	26	25	280	<1	4.19	446
OAC21/1440	41635	0	2	22	205	172	<1	2.87	315
OAC21/1440	41636	2	4	30	60	176	<1	3.72	192
OAC21/1440	41637	4	6	30	54	141	<1	2.83	173
OAC21/1440	41638	6	8	29	47	143	<1	3.02	158
OAC21/1440	41639	8	10	32	45	115	<1	2.59	133
OAC21/1440	41640	10	12	29	101	190	<1	2.93	168
OAC21/1440	41641	12	14	22	79	118	<1	2.44	138
OAC21/1440	41642	14	16	23	62	98	<1	2.46	126
OAC21/1440	41643	16	18	21	48	113	<1	3.15	218
OAC21/1440	41644	18	20	24	34	140	<1	2.89	202
OAC21/1440	41645	20	21	21	42	129	<1	3.79	196
OAC22/1200	41605	0	2	16	28	62	<1	5.95	159
OAC22/1200	41606	2	4	43	22	98	<1	4.5	189
OAC22/1200	41607	4	6	46	20	168	<1	4.89	183
OAC22/1200	41608	6	8	48	16	110	<1	4.83	348
OAC22/1200	41609	8	10	34	3	98	<1	8.84	1931
OAC22/1200	41610	10	12	60	4	80	<1	8.27	1697
OAC22/1200	41611	12	14	48	4	77	<1	9.62	2779
OAC22/1200	41612	14	16	42	12	82	<1	6.42	634
OAC22/1200	41613	16	18	48	21	99	<1	6.06	772
OAC22/1200	41614	17	18	46	7	84	<1	6.9	748
OAC22/1240	41615	0	2	84	65	103	<1	4.39	291
OAC22/1240	41616	2	4	88	16	179	<1	9.42	510
OAC22/1240	41617	4	6	80	10	167	<1	9.73	1150
OAC22/1240	41618	6	8	99	12	144	<1	9.29	631
OAC22/1240	41619	8	10	95	10	139	<1	9.96	581
OAC22/1240	41620	10	12	47	29	166	<1	10.2	1132
OAC22/1240	41621	12	14	47	27	89	<1	8.53	1983
OAC22/1240	41622	14	16	58	21	90	<1	7.24	531
OAC22/1240	41623	16	18	29	30	144	<1	7.27	1443
OAC22/1240	41624	17	18	22	31	197	<1	9.52	3106
OAC22/1280	41625	0	2	38	54	116	<1	7.97	617
OAC22/1280	41626	2	4	85	45	939	<1	7.73	236
OAC22/1280	41627	4	6	62	58	737	<1	7.59	198
OAC22/1280	41628	6	8	79	42	715	<1	8.65	287
OAC22/1280	41629	8	10	61	47	1119	<1	8.08	316

HOLE_ID	SAMPLE	FROM	TO	Cu	Pb	Zn	Ag	Fe%	Mn
OAC22/1280	41630	10	12	73	61	910	<1	9.37	369
OAC22/1280	41631	12	14	55	44	816	<1	7.68	287
OAC22/1280	41632	14	16	79	25	897	<1	7.77	324
OAC22/1280	41633	16	18	37	12	1857	<1	9.14	6700
OAC22/1280	41634	17	18	38	10	1834	<1	7.78	2107
OAC22/1320	41564	0	2	24	188	1374	<1	1.42	177
OAC22/1320	41565	2	4	21	118	2883	<1	1.68	103
OAC22/1320	41566	4	6	18	114	4158	<1	1.61	198
OAC22/1320	41567	6	8	12	526	7000	<1	3.51	141
OAC22/1320	41568	8	10	19	505	5900	<1	1.37	45
OAC22/1320	41569	10	12	17	164	3916	<1	1.19	32
OAC22/1320	41570	11	12	36	186	3652	<1	2.46	95
OAC22/1360	41516	0	2	26	784	807	<1	1.06	48
OAC22/1360	41517	2	4	28	1047	909	<1	1.84	35
OAC22/1360	41518	4	6	27	1039	296	<1	2.49	85
OAC22/1360	41519	6	8	31	1676	546	<1	4.09	93
OAC22/1360	41520	8	10	50	911	420	<1	3.51	77
OAC22/1360	41521	10	12	40	570	303	<1	3.37	91
OAC22/1360	41522	12	14	56	305	520	<1	4.1	97
OAC22/1360	41523	14	16	53	302	855	<1	6.12	96
OAC22/1360	41524	16	18	44	299	704	<1	4.96	83
OAC22/1360	41525	18	20	35	334	531	<1	4.11	177
OAC22/1360	41526	20	22	33	504	331	<1	2.5	58
OAC22/1360	41527	22	24	36	496	250	<1	2.86	56
OAC22/1360	41528	24	26	49	966	753	<1	4	1392
OAC22/1360	41529	26	28	43	2118	163	<1	2.28	98
OAC22/1360	41530	28	30	31	4070	159	<1	1.67	69
OAC22/1360	41531	29	30	28	3605	129	<1	1.86	72
OAC22/1400	41554	0	2	17	524	134	2	2.55	107
OAC22/1400	41555	2	4	32	1110	974	2	5	201
OAC22/1400	41556	4	6	34	847	1633	1	7.93	519
OAC22/1400	41557	6	8	32	1010	1934	<1	8.38	416
OAC22/1400	41558	8	10	29	1619	553	<1	3.77	256
OAC22/1400	41559	10	12	32	1095	1087	<1	4.45	350
OAC22/1400	41560	12	14	40	891	1332	<1	8.03	411
OAC22/1400	41561	14	16	38	1412	1383	<1	8.09	342
OAC22/1400	41562	16	18	32	1132	1123	<1	6.37	321
OAC22/1400	41563	17	18	32	1306	1328	<1	7.08	411

APPENDIX 9

Diamond Drill Hole Proposals

PASMINCO EXPLORATION
OCEANA JV - RL8809
DIAMOND DRILLHOLE PROPOSAL - PYRAMID OP3

LOCATION (amg): 536430N 363605E

AZIMUTH (amg): 0° (N)

DIP: 55°

APPROXIMATE DEPTH: 150m

1 SUMMARY

Diamond drillhole OP3 provides the opportunity to intersect the Gordon Limestone down dip from significant known mineralization in an area completely untested by drilling. A major fault overthrusts much of the Gordon Limestone at this locality, and invokes the possibility of near surface but essentially masked mineralization.

2 GEOLOGY

The Pyramid prospect occurs in the southeastern corner of the Oceana RL, within a thin wedge of Gordon Limestone. The limestone outcrops poorly at this locality due to deep weathering and shedding of scree from surrounding ridges. Fine grained and fossiliferous limestone has been mapped in the Pyramid costeans with minor associated dolomite and siderite. Shallow water facies are inferred to be dominant, as intersected at Oceana and South Oceana.

Limestone in outcrop thickens to both the northwest and southeast, due to the local presence of a northeast dipping fault. The Moina Sandstone was thrust northward along this fault over the Gordon Limestone, leaving only the upper 100m of limestone stratigraphy exposed. This thrust fault is constrained 900m to the north at South Oceana where it dips at approximately 65°.

3 MINERALIZATION

The Pyramid area is the site of a number of historic shafts and adits, however no significant production is recorded. Amoco excavated 3 costeans in the mine area on the basis of soil sampling.

Mineralisation in costeans is both as fresh sulphide and black pyritic puggy clay. The highest grade mineralization, 6m @ 7.2% Pb and 2.1% Zn in 1750N is associated with black clays. Costeans located 50m to the north and south of the above result are weakly mineralized only. Sulphide mineralization reported as rock chip samples (Amoco) and located on dumps (Pasminco) is strongly Pb dominated, and occurs as irregular clumps of coarse galena with sphalerite wisps, hosted by dolomitic/sideritic limestone.

5 GEOCHEMISTRY

The Pyramid grid has been sampled by both Jacko auger and Wacker. Wacker sampling resulted in a number of anomalous zones, including a moderate intensity Pb-Zn-Mn anomaly in the area of the Pyramid workings. A number of Pb-Zn and Pb-Zn-Mn anomalies delineated by Wacker sampling were tested by shallow (10-25m) vertical drillholes by Amoco (outside current RL boundary), with no significant mineralization encountered.

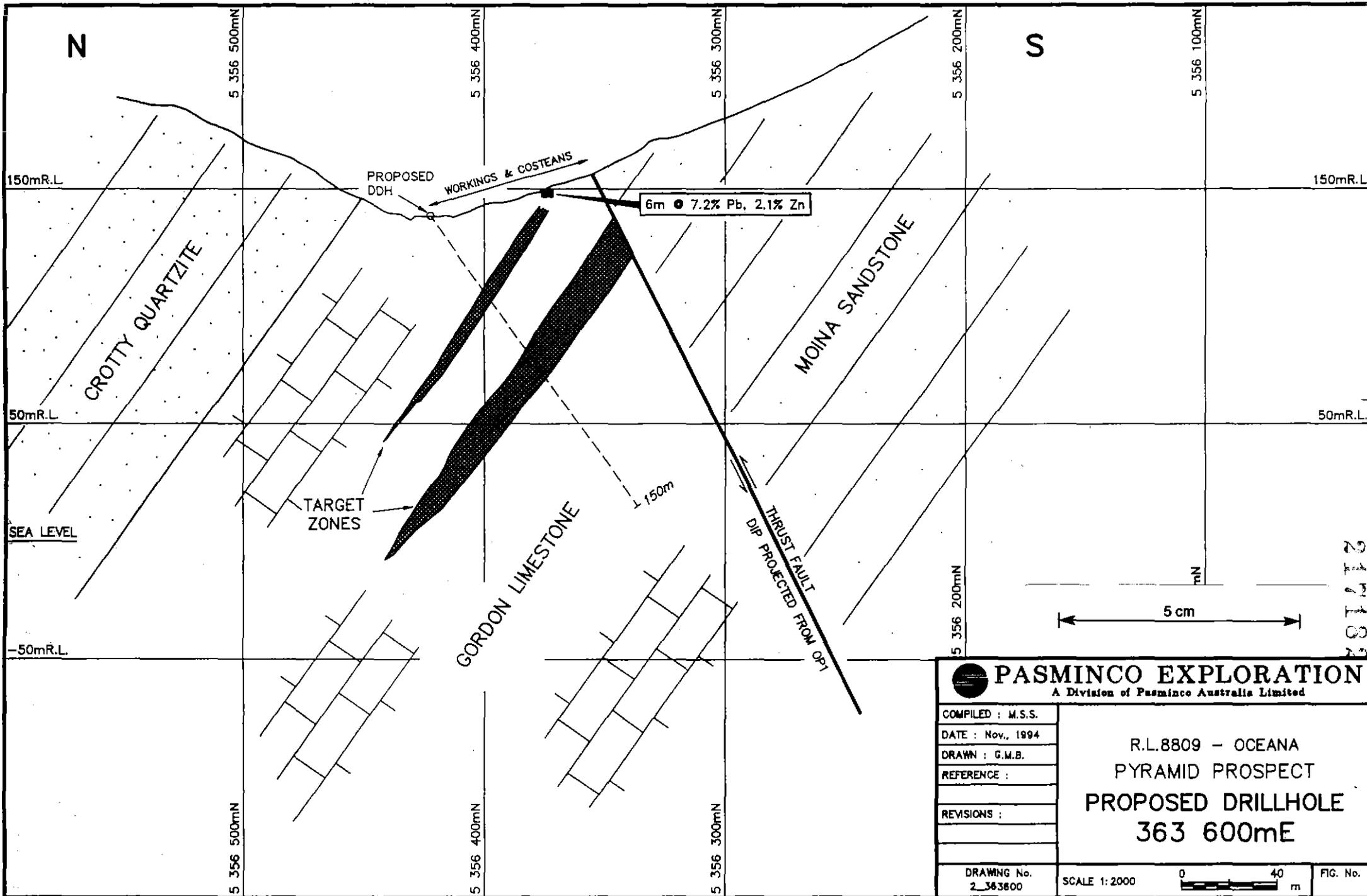
6 GEOPHYSICS

The Pyramid grid area has been covered by ground magnetics and detailed gravity, and more recently included in an airborne magnetic survey. Ground magnetic data displays a patchy 10-15 gamma anomaly centred on the workings, and elongate strata-parallel. This anomaly sits at least in part within the hanging wall of the thrust fault, and is likely to correspond to oxidation within porous sandstones.

7 CONCLUSIONS

Although the evidence for massive Zn-rich mineralization is not as strong at Pyramid as at the Austral or Oceana prospects, the presence of mineralization and dolomitic/sideritic alteration on surface, the close proximity to the thrust fault, and the absence of drilling for 1500m strike strengthens this target. Ore associated with but occurring immediately down sequence from that expressed in the Pyramid costean is masked by the thrust fault, and can only be tested by drilling. The use of further geophysical methods is not considered valid due to the failure of test surveys to delineate the target mineralization style at Oceana, and the complex nature of weathering within the Gordon Limestone.

Any further targets in the Pyramid area are entirely conceptual, lying at depth below the fault with no surface representation. The base of the Gordon Limestone, although prospective, is inferred to lie at depth of approximately 400m below the thrust fault, requiring a 600m drillhole to test, and as such is not considered valid at this stage of exploration.



 PASMINCO EXPLORATION A Division of Pasma Australia Limited	
COMPILED : M.S.S. DATE : Nov., 1994 DRAWN : G.M.B. REFERENCE : REVISIONS :	R.L.8809 - OCEANA PYRAMID PROSPECT PROPOSED DRILLHOLE 363 600mE
DRAWING No. 2_363600	SCALE 1:2000 
FIG. No.	

217187

OCEANA - RL 8809
DIAMOND DRILL HOLE PROPOSAL

HOLE NO.S	OP4, OP5
PROSPECT	Austral Valley
LOCATION	OP4 1820GN 1415GE OP5 1620GN 1418GE
DIP	60°
AZIMUTH	250° (AMG)

GEOLOGY

Gordon Limestone underlies the Austral Valley, where it has a strike extent of approximately 1.5km.

Mineralization occurs at the basal contact of the Gordon Limestone at the Austral Mine. This mineralization has been adequately drill tested by the previous licence holders. The stratabound mineralization at the Oceana Mine, 1.5 km south of drill target, is located centrally within the Gordon Limestone. This stratigraphic position is characterised by a distinctive coarse-grained bioclastic limestone, which was located in the Austral Valley by ZT-81A-4 and ZT-81A-5. No mineralization was intersected by either drill hole.

Aircore drilling within the Austral Valley (Feb, 1995) delineated two strike parallel Zn-Pb anomalies. The western anomaly corresponds to known mineralization at Austral. The eastern anomaly has not been tested by diamond drilling, and is located within the centre of the limestone, approximately along strike from the Oceana host position in ZT-80A-4. This eastern anomaly is 400m x 30m in aerial extent, and includes intersections

of:	16m	@	3.9% Zn	2.5% Pb
	16m	@	2.0% Zn	
	14m	@	2.2% Zn	
	14m	@	2.0% Zn	0.9% Pb

All anomalous holes were drilled into massive/semi-massive siderite, an important gangue mineral in both the Oceana and Austral ore bodies. A small outcrop of massive siderite occurs on surface, coincident with the aircore anomaly, rock chips from which were anomalous in Zn, peaking at 1.2%.

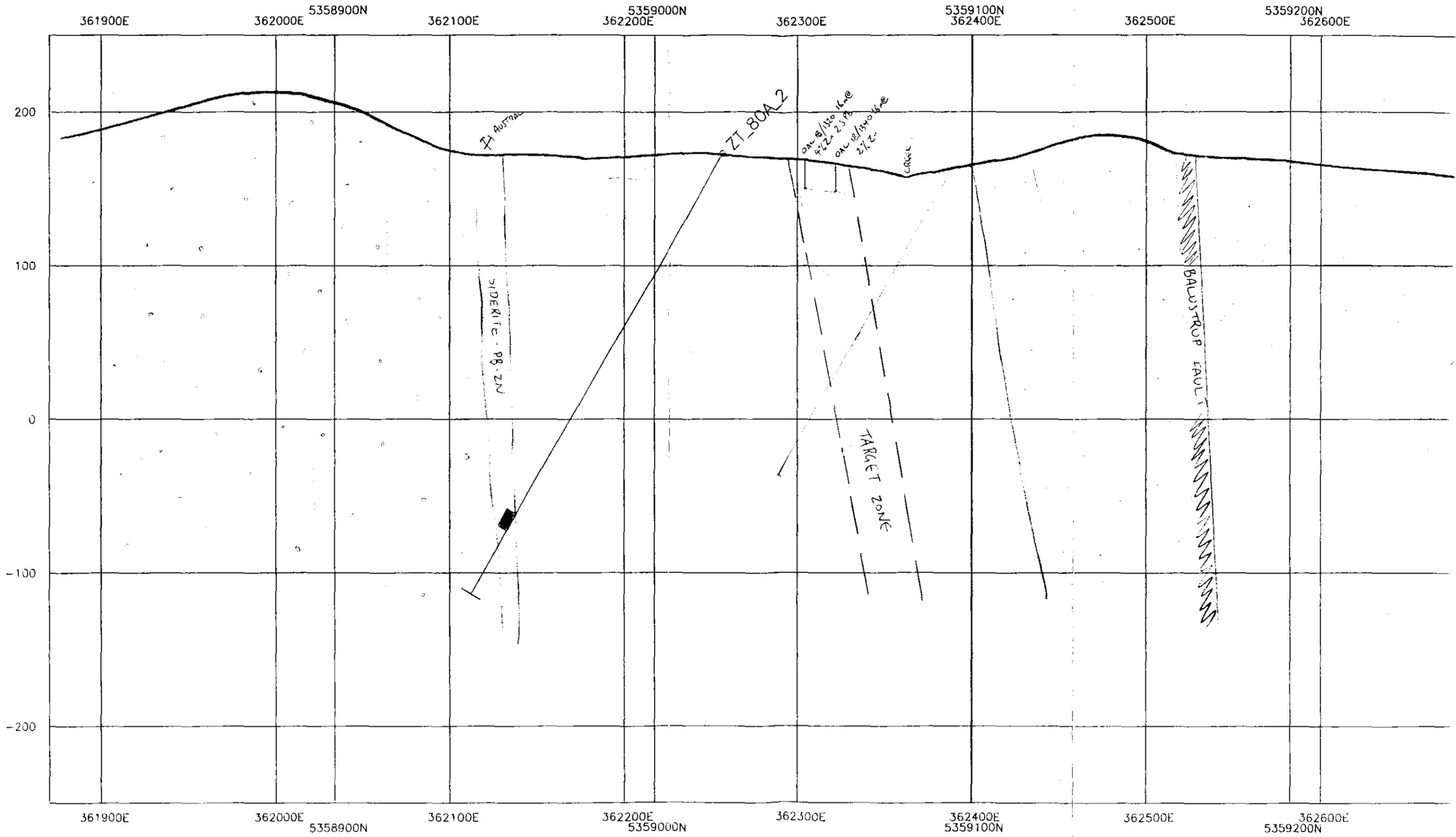
A ground magnetic anomaly corresponds with both eastern and western aircore Zn-Pb anomalies.

TARGET

Both drill holes are designed to test the eastern aircore anomaly within the Austral Valley. OP4 will drill beneath the most anomalous zone, while OP5 will test the southern end of the anomaly. Intersections will be approximately 200m apart.

Mark Saxo

217184



APPENDIX 10

OP3 - Drill Hole, Assay Results, Physical Properties

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. 0P3

PROJECT: OCEANA

Vertical Scale 1 : 200

Page 1 of 6

DESCRIPTION				GRAPHIC				
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
0.00	2.10	QUARTZ GRAVEL; minor fractured limestone;			0			
2.10	12.80	WEATHERED LIMESTONE; highly fractured limestone; predominantly micritic, minor bioclastic grainstone; strong tube bioturbation; irregular calcite veining;			10			
12.80	14.20	GRAINSTONE, with near complete early-dolomite replacement; limestone islands preserved in dolomite matrix; shelly debris plus medium coral heads; fossils calcite plus rare pyrite replacement;						12.7m-12.9m: calcite plus brn carbonate veining; open space fill;
14.20	17.90	MICRITE; moderate to strong early-dolomite overprint, increasing downhole; fossil poor; common sculpture bioturbation;						
17.90	18.90	CALCITE VEIN, plus calcite cemented limestone breccia; minor galena in calcite vein;						
18.90	24.50	MICRITE; strong stylolamination; fossil poor;		17.9m-18.2m: trace galena in calcite vein;				17.8m-18.2m: calcite vein, brecciated 1st with calcite veining;
		PELLET-FOSSIL GRAINSTONE, grading to wackestone and minor micrite; calcite replaced shelly fragments and pellets, typically within early-dolomite matrix; moderate bioturbation of fine-grained beds; intense calcification of basal 0.3m;			20			
24.50	51.20	MICRITE, with minor clastic mudstone reducing downhole; pale grey, massive to rare weak lammination; moderate to strong stylotisation, stylo-lamination and stylo-breccia in part; strong bioturbation in upper 3m, decreases with decreasing clastic content; common fenestral porosity 37.1-42.0m;						

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PRSMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. 0P3

PROJECT: OCEANA

Vertical Scale 1 : 200

Page 2 of 6

DESCRIPTION			GRAPHIC					
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		decreasing oxide content; common fracture porosity 37.1-42.0m;			30			
					40			
					50			46.1m-46.4m: puggy, calcite veined, minor fault; 48.1m-48.4m: calcite vein: 10deg LCR; 48.8m-49.1m: calcite vein: 15deg LCR;
51.20	65.80	BIOTURBATED WACKESTONE and MICRITE; shelly wackestone grades downhole to massive pale grey micrite as above; rubbly as puggy; tube bioturbation; abundant early-dolomite controlled by bioturbation;		54.6m-54.6m: trace galena in calcite vein;				

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PASMINCO EXPLORATION
 DIAMOND DRILL CORE LOG
 Vertical Scale 1 : 200

HOLE No. 0P3

PROJECT: OCEANA

Page 3 of 6

DESCRIPTION				GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
					50		
65.80 66.20	66.20 74.50	FAULT ZONE; puggy, slightly weathered; BIOTURBATED GRAINSTONE/WACKESTONE; shelly-pelletal sandy grainstone and minor wackestone; calcite replacement of shell fragments, pellets and in part matrix; abundant early-dolomite controlled by burrows, pre-stylotisation; shells typically intact; rubbly;			70		
74.50	77.40	DOLOSTONE, minor micritic limestone; massive, dark grey interval; rare fossils; interlocking crystals;					
77.40	91.20	MICRITE with minor interbedded wackestone; pale grey semi-massive micrite, with occasional isolated fossiliferous zones; occasional bioturbation; calcite+pyrite filled fenestral pores; abundant dissem. dolomite crystals from 84.5 gives granular txt;			80		

217188

PRSMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. 0P3

PROJECT: OCEANA

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
								86.9m-87.3m: stylobreccia:
91.20	93.70	GRAINSTONE; shelly grainstone, minor coral; disseminated early-dolomite crystals;						
93.70	95.00	RUBBLE/PUG; minor calcite veining;						
94.40	122.00	GRAINSTONE; fossil grainstone, shell fragments strongly abraided; peloidal in part, rare <i>ancoids</i> ; very clean and well sorted 108.9-113.2m, with calcite matrix in part; laminar stromatoporoid at 102.6m, 98.0m; large coral fragments and rudstone typical of Oceana host are rare, minor from 113.2-122.0m;						93.7m-95.0m: puggy, rubble, possible fault zone:
								104.8m-104.8m: trace sphalerite in matrix:

212139

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. OP3

PROJECT: OCEANA

Vertical Scale 1 : 200

Page 5 of 6

DESCRIPTION				GRAPHIC			STRUCTURES	
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Structures
122.00	129.00	CAVERN;				120		
129.00	143.00	FAULT ZONE; mid-dark grey puggy fault zone, weakly acid reactive; minor intervals of mid-grey siderite?; weathers very limonitic; much core loss;				130		
						140		

217100

PRSMINCO EXPLORATION
 DIAMOND DRILL CORE LOG
 Vertical Scale 1 : 200

HOLE No. 0P3

PROJECT: OCEANA

Page 5 of 6

DESCRIPTION				GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
					-140		
143.00	150.00	SANDSTONE; pale cream-white quartz sandstone, minor gravel; non-calcareous; puggy in part;					
					-150		
					-160		

121.4m-142.0m: fault zone;
 fault truncates base of
 Gordon Limestone;

20
 19
 18
 17
 16

217102

APPENDIX 11

OP4 - Drill Hole, Assay Results, Physical Properties

PASMINGO EXPLORATION DIAMOND DRILL HOLE LOG

Hole ID
OP4

DRILLING			OBJECTIVE			COLLAR SURVEY (AMG)					
Location	TASMANIA		To test bedrock corresponding to the eastern aircore/ground magnetics surface anomaly within the Austral Valley.			AMG mN	5359042.5	Bearing	249.0		
Project	OCEANA					AMG mE	362398.1	Dip	60.0		
Prospect	AUSTRAL VALLEY					mN		Hole Length	241.4		
Design By	M S SAXON					mE		DH Survey Type	Eastman Camera		
Logged By	M S SAXON					RL	66.6				
Relogged						DOWNHOLE SURVEY (AMG)					
Commenced	26/6/95					Depth	Bearing	Dip			
Completed	26/6/95					0	249	-60			
Drilled By	EAST COAST DRILLING					30	249	-60			
Drill Rig	LONGYEAR 38					60	249	-60			
SIGNIFICANT CORE LOSS			POOR GROUND CONDITION ZONES			90	249	-60			
From	To	Loss	From	To	Condition	120	249	-61			
			0	79.7	Crotty Quartzite with minor running sand.	150	250	-61.5			
			79.7	241.4	Numerous puggy zones within limestone.	241	248	-62.5			
HOLE SIZE			HOLE CONDITIONS AFTER COMPLETION								
From	To	Size	Collar		2m collar pipe in top of hole						
0.00	77.5	HQ	Steel Casing								
77.5	241.4	NQ	PVC Casing								
			Ground Water								
			Wedge								
			Drill Pad								
					Sump filled, site levelled						
SIGNIFICANT INTERSECTIONS											

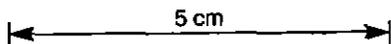
217193

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OP4**

PROJECT: OCEANA

Page 1 of 9



DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
0.00	5.40	Minor glacials, fractured, broken, puggy.			0		
5.40	7.10	SILTSTONE Khaki, Massive, Non calcareous, cleaved					
7.10	7.90	QUARTZITE Pale grey quartzite; 0.5mm coarse rounded qtz sand with silica cement; lithic clasts common;					
7.90	9.40	SILTSTONE GRADING TO SANDSTONE Khaki, Cleaved siltstone top grades to medium grained sand; puggy weathered zone at unit base;					
9.40	16.50	SANDSTONE WITH MINOR QUARTZITE Mixed khaki and dark grey sandstone; colour mix due to weathering; mottled, irregular; black zones pyritic; fossiliferous in part;		9.4-13.3m pyrite, 1%, disseminated, associated with dark grey zone in siltstone; disseminated and lenses;	10		FIRST CLEAVAGE, R 60, Slaty.
16.50	22.60	SILTSTONE GRADING TO SANDSTONE WITH MINOR QUARTZITE Khaki, Cleaved siltstone grades to 0.25mm medium grained quartz sandstone; rare beds of quartzite as above in puggy matrix; massive; fractured;		16.2-16.5m pyrite, 2%, disseminated, associated with dark grey zone in siltstone; disseminated and lenses;	20		
22.60	28.40	QUARTZITE Pale grey-white quartzite with very minor contorted shale lenses; rounded quartz grains to 0.75mm, typically clear qtz, minor bucky qtz; grains supported; common lithic fragments of siltstone plus black elongate wisps, prob. organic fragments; beds ungraded but beds coarsen down hole; CONTACT: Conformable abrupt,					PRIMARY FABRIC, R 32, PRIMARY FABRIC, R 35.

Stubby horizon

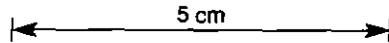
219104

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **0P4**

PROJECT: OCEANA

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DESCRIPTION				GRAPHIC			STRUCTURES	
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		
28.40	33.40	SILTSTONE INTERBEDDED WITH SANDSTONE WITH MINOR QUARTZITE Interbedded kakhi siltstone and medium grained massive quartz sandstone, plus minor pale grey quartzite as above; cm scale lensy bedding to 29.2m with bioturbation at top (uphole facing); beds thicker, more homogeneous below 29.2;				30		PRIMARY FABRIC, A 32. Facing uphole.
33.40	35.00	QUARTZITE Pale, Grey, Mid-pale grey quartzite, comprised of rounded quartz sand grains and qtz cement; very minor silty partings;		32.0-35.8m pyrite, 5%, disseminated, lenses and dissemination of pyrite nodules in dark grey sandstone; dusty pyrite.				
35.00	43.90	SANDSTONE Dark blotchy grey weathered pyritic sandstone; puggy in part, vuggy, leached;		35.8-54.8m pyrite, trace, disseminated.		40		
43.90	47.20	SHALE Gray pgy, possibly post shale; very soft;						
47.20	66.30	SANDSTONE Variably weathered, dark grey to limonitic orange medium to coarse grained (0.25-0.5mm) sandstone; abundant rounded quartz grains; clast supported, siliceous cream matrix in part; clear quartz dominant; puggy in part; typically no bedding lamination; minor gravelly zones; dark grey to 54.8m, then limonitic;		53.4-53.7m 1% galena disseminated in sandstone pore spaces.		50		

WEATHERED POROUS.

PUGGY

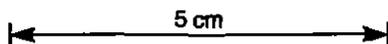
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PRSMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OP4**

PROJECT: OCEANA

Page 3 of 9



DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
66.30	73.50	SANDSTONE Cream to very pale grey fine-medium grained sandstone; quartz grains hosted by cream, non-calcareous matrix which gives color; massive, rare bedding lamination; clear quartz, well sorted;					
73.50	79.70	SILTSTONE Cream siltstone, very similar in appearance to above without visible sand grains; massive to slight mottly/wispy texture; occasional fossils; common puggy crush zones towards base; CONTACT: Gradational;					
79.70	85.00	FAULT ZONE (PUG) Puggy cream clay with minor limonitic staining and isolated clasts of irregular to elongate dark grey sandstone; minor broken vein quartz; margins most puggy with least clasts; CONTACT: Gradational;					

PRIMARY FABRIC, A 30,
FOLD, Probable fold hinge, bedding poorly defined; broad open fold; F1 to LCA approx 90deg;
PRIMARY FABRIC, A 45,
PRIMARY FABRIC, A 25,
FOLD, Fold hinge; broad open fold; F1 to LCA approx 90deg;
VEIN, Quartz,
PRIMARY FABRIC, A 30,
VEIN, Quartz,

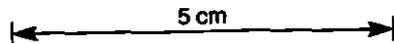
irregular silt clasts

217196.

PRSMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **OP4**

PROJECT: OCEANA



Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	STRUCTURES
65.00	110.90	Dk gry MICRITE with minor wackestone; predominantly limestone, minor zones grade to calcstone; mottled to massive calcitic matrix with finely cryst. dolomite; mottle a result of early-dolomite; fossil poor, sand sized fragments in wackestone 99-102.7m, small corals; stylolites common, darker grey, dolomite poor, anastomosing and irregular; from 100-108m stylolites overprinted by strong cleavage at 10LCA; weathered in part to crm-limonite colour (sideritic?); cmn calcite veins pre-stylolite; common CONTACT: Conformable abrupt,	<p><i>fossil poor, rubble zone near upper contact.</i></p>	<p>89.0-89.9m 1% honey sphaerite in veins.</p>	<p>90</p> <p>400</p> <p>110</p>		<p>VEDN, Minor breccia zone, limestone clasts with calcite matrix</p> <p>FIRST CLEAVAGE, A 10, Strong cleavage 100-108m, anastomosing, disrupts calcite veinlets</p>
110.10	124.80	SANDSTONE Pale steel grey fine-medium grained quartz sandstone with calcite/dolomite matrix; occasional quartz grains to 2mm; matrix supported, well rounded grains; typically massive, rare peeding; local tube bioturbation,					

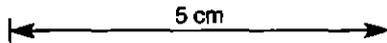
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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OP4**

PROJECT: OCEANA

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DESCRIPTION			GRAPHIC					
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		grains to 2mm; matrix supported, well rounded grains; typically massive, rare bedding; local tube bioturbation, tubes 5mm width; minor vein calcite; CONTACT: Conformable mixed.		113.0-113.5m 5% galena in calcite stockwork breccia veins; trace pyrite. 117.0-117.2m calcite vein with minor sphalerite.				
			calcite cement.		120			FAULT, A 15, Pug, cataclastic, 15mm width; PRIMARY FABRIC, A 15.
124.80	133.80	DOLOMICRITE; limestone overprinted by early-dolomite; minor blotchy-banded texture; common irregular stylolites; minor calcite veining;						
			textured.		130			
133.80	137.50	NOULAR LIMESTONE; pale grey micritic limestone nodules hosted by dark grey clastic mudstone; nodules attenuated, margins stylotised; fossil poor;						
			calcite crypt. zones. dolomitic pseudoclasts					
137.50	142.20	RECRYSTALLIZED CALCITE/DOLOMITE with minor mineralization; dark grey 'clasts' of early-dolomite hosted by mid grey crystalline dol/calc matrix, or crystalline dol/calc as blotches; sphalerite associated with recryst carbonate; late stage calcite veining; minor		137.2-142.3m 1% disseminated sphalerite assoc. with cal/dolomite alterations.	140			

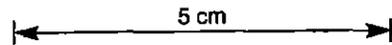
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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OP4**

PROJECT: OCEANA

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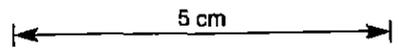
DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
		crystalline dol/calc as blotches; sphalerite associated with recryst carbonate; late stage calcite veining; minor visible fossiliferous and micritic lst;			140		
142.20	156.00	WACKESTONE with minor grainstone and micrite; shelly and rare coral fragments typically coarse sand sized; common fossil legs; gastropod shells intact; minor early-dolomite only;					FIRST CLEAVAGE, R 17, FIRST CLEAVAGE, R 15, PRIMARY FABRIC, R 25,
156.00	163.70	PUG; grey, minor solid core;			150		
163.70	180.30	DOLOSTONE; massive; strong overprint of early-dolomite, few depositional txt preserved; minor quartz sandstone in upper 1m; precursor micritic; occasional oolitic texture; abundant veins of dolomite and calcite, rare siderite; 10% vein material, strongly veined in part;			160		

631413

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OP4**

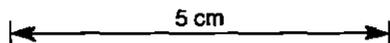
PROJECT: OCEANA



		DESCRIPTION			GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					170			
180.30	182.20	WACKESTONE grading to micrite; limestone with abundant early-dolomite crystals disseminated in lime matrix; dolomite not detexturing as above; minor bioturbation; common calcite replaced shells;		176.5-178.0 pyrite, 2% as clots assoc. with dolomite veining.	180			173.5-178.5m abundant irregular dolomite veins and breccia zones, all orientations, wall rock fractured.
182.20	184.40	BRECCIA ZONE; angular to subrounded limestone clasts supported by sparry dolomite veins; hydraulically snattered and sealed; sparry dolomite veins rebrecciated and resealed by grey coarsely crystalline dolomite;		182.0-184.4m pyrite, 2% disseminated.				182.2-184.4m breccia zone, dolostone fractured by dolomite veining; 2 vein generations.
184.40	198.90	Massive DOLOSTONE, grading to DDLO-WACKESTONE; dark grey, similar to above breccia zone; slight lamination in part; occasional shelly fragments preserved, calcite replaced; sparry and grey dolomite veining common in upper 3m;			190			185.5-187.0m strong dolomite veining, minor brecciation.
								189.7-189.7m dolomite-siderite vein, dog tooth.
								194.9-195.8m breccia zone, dolostone fractured by dolomite veining.

dolomite, calcite veining
dolomite vng.
grey ebl/mg

217200



DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
		sequence; 1st islands preserved in dolostone; geopetal internal sediment present at 227.2m, uphole younging;		224.3-224.3m sphalerite, trace in calcite vein.			
					230		227.2-227.2m geopetal structure, draped internal sediment; uphole younging;
							230.5-231.0m calcite veining, minor brecciation;
233.90	237.10	DOLOSTONE; intense coarsely cryst. dolomitization, no visible precursor texture; minor sphalerite-galena mineralization associated with dolomite; strongly fractured by calcite-siderite veins; veins and stockwork host angular wallrock fragments		233.9-235.7m sphalerite, 1% galena, trace disseminated in wall rock to siderite-calcite veins, none in veins.			235.0-236.2m breccia zone, calcite-siderite veining, angular clasts;
237.10	241.40	DOLOSTONE; early-dolomite with minor preserved shelly texture; moderate veining;		237.5-237.9m sphalerite-galena, trace in vein.			238.7-238.7m geopetal structure, draped internal sediment;
					240		
					250		

217202

APPENDIX 12

OP5 - Drill Hole, Assay Results, Physical Properties

PASMINGO EXPLORATION DIAMOND DRILL HOLE LOG

Hole ID
OPS

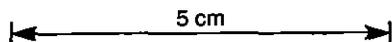
DRILLING			OBJECTIVE		COLLAR SURVEY (AMG)				
Location	TASMANIA		To test for base metal mineralisation within the Gordon Limestone corresponding to an aircore Zn-Pb and ground magnetic anomaly.		AMG mN	5359042.5	Bearing	70.0	
Project	OCEANA				AMG mE		362325.3	Dip	-55.0
Prospect	AUSTRAL VALLEY				mN			Hole Length	203.0
Design By	M S SAXON				mE			DH Survey Type	Eastman Camera
Logged By	M S SAXON				RL		168.5		
Relogged					DOWNHOLE SURVEY (AMG)				
Commenced	1/8/95				Depth	Bearing	Dip		
Completed	25/8/95				30	70	-55		
Drilled By	EAST COAST DRILLING				60	69	-56.5		
Drill Rig	LONGYEAR 38				90	66	-57.5		
			120	65	-57.0				
			150	65	-57				
SIGNIFICANT CORE LOSS			POOR GROUND CONDITION ZONES						
			From	To	Condition				
			0	182	Numerous intervals of pug/rubale intersected in Gordon Limestone. Cavities comm.				
			182	203	Friable-running sand in Crotty Quartzite.				
HOLE SIZE			HOLE CONDITIONS AFTER COMPLETION						
From	To	Size	Collar		3m of collar pipe with support bar and cap Nil Abundant water in hole Pad leveled, sump filled;				
0	59.7	HQ	Steel Casing						
59.7	203	NQ	PVC Casing						
			Ground Water						
			Wedge						
			Drill Pad						
SIGNIFICANT INTERSECTIONS									

217204

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OP5**

PROJECT: OCEANA



Page 1 of 8

DESCRIPTION			GRAPHIC					
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
0.00	5.50	No core;			0			
5.50	7.20	MICRITE; massive to weak lamination; fossil poor; common early-dolomite replaced tube burrows;						
7.20	17.00	GRAINSTONE with minor ruostone, wackestone; blotchy steel grey; abundant fossils, typically shelly plus corals and stromatoporoids to 3cm; occasional intact gast.; occasional encoidal growth on clasts; 'islands' of limestone and fossils surrounded by early-dolomite due to replacement, similar to Oceana hostrock; minor tube mottling;			10			
17.00	18.70	WACKESTONE; similar to above, increased lime matrix; shelly and coralline fragments; abundant early-dolomite replacement, bioturbation controlled;						
18.70	22.50	CORALLINE WACKESTONE; abundant branching coral in lime sand/micrite matrix; coral strongly calcite recrystallised; coral equi-spread in matrix, potential growth position; minor early-dolomite as irregular matrix replacement;			20			
22.50	25.90	RUBBLE/PUG; fossiliferous in part;						
25.90	29.70	Fine grained FOSSIL SANDSTONE grading to MICRITE; occasional large stromatoporoids; less fossiliferous downhole; minor bed controlled early-dolomite;						

early dolomite

FIRST CLEAVAGE, R 45, Slaty.

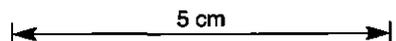
217205

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **0PS**

PROJECT: OCEANA

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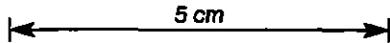
DESCRIPTION			GRAPHIC					
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		downhole; minor bed controlled early-dolomite;						
29.70	30.70	PUG; grey, limey.			30			
30.70	33.40	Crystalline SIDERITE/CALCITE with minor mineralization; creamy-brown in color, crushed/powdery, 80cm of core recovered;			30.7-33.4m siderite-calcite-galena-sphalerite vein? - broken core.			
		Black PUG; plastic texture;						
33.78	35.80	Crystalline SIDERITE with galena/sphalerite mineralization; interval typically creamy-brown, crushed/powdery; at 34.3m matrix to minz dolomitic, non-crystalline, strongly clvd, disseminated sphalerite attenuated in clvg; at 35.6m matrix to minz dark grey crystalline siderite with cream siderite lenses;			33.7-35.8m siderite-galena-sphalerite mineralization; siderite grey crystalline and crm lenses; strong cleavage in part, sphalerite dissem. and attenuated in clvg; galena veins siderite.			
		PUG/RUBBLE; pug to 40.1m; predominantly micritic;						
44.20	51.50	GRAINSTONE with minor mudstone, wackestone; 3-8mm shelly and coralline fragments with numerous coarser fragments; clast supported, matrix poor; common oncoids; calcite cement in part, best developed 51-52m; replacive early-dolomite abundant;			34.3m 			FIRST CLEAVAGE, A 35.
51.50	55.00	BIO-TURBATED WACKESTONE ; fossil rich wackestone with bioturbation mottling highlighted by early-dolomite; bio-tubes stylolite modified;			35.6m 			
55.00	58.50	FOSSIL-ONCOIDAL GRAINSTONE ; preserved 5-10mm shells with oncoids; coating; lag accumulated;						

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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OP5**

PROJECT: OCEANA



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DESCRIPTION			GRAPHIC					
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
55.00	58.90	POSSIBLE UNCONFORMABLE SANDSTONE; preserved 5-10mm shells with oncoloidal coating; lag accumulated;						
58.90	62.00	BIOTURBATED WACKESTONE; rubble;			59.7-59.7m siderite-galena vein.	60		PRIMARY FABRIC, A 45, Facing downhole.
62.00	66.40	PUG; dark grey;						
66.40	70.20	SIDERITE with galena/sphalerite mineralisation; cream-brown color; semi-massive crystalline siderite veined and invaded by black dolomite(?); angular siderite clasts hosted by black dolomite; galena veinlets crosscut siderite; pyrite locally abundant; core very rubbly; lower contact gradational with reducing siderite alteration;			66.4-70.2m siderite-galena-pyrite-(sph) as vein/replacement; siderite fract. by black dolomite; galena as veinlets in siderite; pyrite as clots in siderite; rubble.	70		
70.20	83.70	SILICA ALTERED BRECCIA ZONE; dark grey, slightly porous zone of intensively silicified carbonate; angular to irregular clasts supported by massive to slightly spotted matrix of silica; clasts typically massive partly altered dolomite, but near upper contact includes angular fragments of upper siderite-galena-sphalerite unit; sphalerite in both clasts and silica matrix; common blebs of grey silica; interval moderately pyritic; *silica alteration not previously seen*			70.2-71.2m sphalerite-pyrite-galena: 2% sphalerite; present as noddy sph in clasts and honey sph in silica matrix as dissemination, separate generations; abundant disseminated pyrite in silica matrix; minor dissem. galena.			
83.70	87.90	PUG; grey;			83.0-83.7m siderite-sphalerite; trace.			

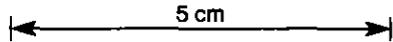
219207

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OP5**

PROJECT: OCEANA

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DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
83.70	87.90	PUG; grey;					
87.90	98.70	GRAINSTONE grading to rudstone and fossil sandstone; well sorted shell fragment and minor small coral, clast supported unit; typically sand-sized clasts, occasional coarser beds; calcite cement in part; minor early-dolomite; bioturbation in finer grained zones;			90		
98.70	100.20	CAVITY			100		
100.20	110.50	BIOTURBATED MICRITE, with minor interbedded wackestone; occasional large intact fossils; bioturbation predominantly tube mottling, minor sculpture mottle; common early-dolomite controlled by bedding and burrows;					
110.50	111.70	CORAL HEAD(S); compound coral heads to 0.3m; micritic 1st between heads; stylotised margins;			110		
111.70	112.20	MICRITE; pale grey; birds-eye fenestral porosity;					

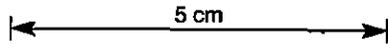
PRIMARY FABRIC, A 45.

217208

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **OPS**

PROJECT: OCEANA



Vertical Scale 1 : 200

Page 5 of 8

DESCRIPTION			GRAPHIC					
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
111.20	112.20	MICRITE; pale gray; birdseye fenestral porosity;						
112.20	121.70	WACKESTONE; mid grey micritic matrix hosting intact and fragmented fossils; minor bioturbation;						
121.70	123.00	Interbedded CLASTIC MUDSTONE and MICRITE; mid grey micrite with minor fossil debris, with 20% intercalated clastic mudstone; weak internal lamination;						
123.00	125.90	MICRITE; pale grey limestone with strong planar stylolamination in part; abundant irregular-elongate calcite filled fenestral pores, slight bed control, possible algal origin;						
125.90	128.80	ONCOIDAL-FOSSIL WACKESTONE; shelly debris in micrite matrix with common oncolidal coating on shell fragments; oncoids to 1.5cm diam.; solit. coral common but uncoated;						
128.80	135.50	Interbedded CLASTIC MUDSTONE and LIMESTONE; 3-10cm planar beds of brown mudstone and wackestone or grainstone; bed contacts sharp, stylotised; common tube bioturbation at bed margins; mudstone beds and grainstone horizons both host early-dolomite;						
135.50	137.00	PUG; dark grey;						
137.00	144.00	GRAINSTONE; coarse sandy clast supported grainstone, 2mm clast avg.; shell fragments plus coral to 5cm size; fossils calcite replaced; strong early-dolomite overprint, cut by stylolites;						

114.3-114.4m galena; trace adjacent to calcite veins.

1st clastic mudstone
fenestral/alg.

VEIN, Calcite-wallrock fragments

VEIN, Calcite-wallrock fragments

Crn-brn pug, probable siderite

PRIMARY FABRIC, A 35.

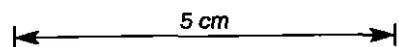
Crn-brn pug, probable siderite

219209

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OPS**

PROJECT: OCEANR



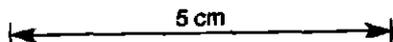
DESCRIPTION				GRAPHIC				
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					140			
144.00	152.70	Interbedded CLASTIC MUDSTONE and MICRITE, grading to NODULAR LIMESTONE; pale grey micrite nodules have stylolite margins, elongate bed parallel, minor internal lamination, host occasional fossil debris; rubble and pug below 149m;	 <i>lst nodules, fabric wraps</i>		150			
152.70	161.30	RUBBLE, PUG; dark grey micritic lst fragments;			160			
161.30	161.90	CORAL HEAD; compound coral heads plus minor wackestone;						
161.90	163.00	PUG; dark grey;						
163.00	169.30	CAVITY						

217210

PRSMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **0P5**

PROJECT: OCEANA



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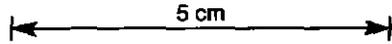
DESCRIPTION				GRAPHIC				
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	
169.30	175.10	PUG; dark grey;	<p><i>siderite rubble.</i> <i>galena veining</i></p>		170			
		SIDERITE; minor rubble of dark grey siderite; possible minor mineralization;						
175.30	177.40	PUG; dark grey-black;						
177.40	180.30	SIDERITE with GALENA and minor sphalerite mineralization; crm-brn coarsely cryst. massive siderite with intercryst. and fracture fill galena; trace disseminated sphalerite assoc.; below 178m siderite brecciated, clasts hosted by fine grained crm dolomite(?) matrix; siderite rim texture shows open space fill; vugs in siderite open or calcite filled; galena hosted by both siderite and dolomite veining; pug 179.9-180.1m;	<p><i>dol. veining</i></p>	177.4-180.3m siderite-galena-sphalerite; massive siderite with 5-10% disseminated and vein galena. 1% disseminated sphalerite; open space fill texture.	180			
180.30	182.50	PUG; cream brn sideritic pug, possible minor mineralization;						
182.50	185.10	SANDSTONE; mid-grey medium grained quartz sandstone; bedded, laminated; conc broken;						
185.10	187.40	QUARTZITE; pale grey coarse grained quartzite; clear quartz grains, minor lithics; silica cement;						
187.40	197.20	Interbedded SANDSTONE and SILTSTONE; pale grey quartz sand bedded with mid grey laminated siltstone; bedding contorted, folded;			190		PRIMARY FABRIC, A 40. FOLD. Axis, Open folding	

217011

PASMINCO EXPLORATION
 DIAMOND DRILL CORE LOG
 Vertical Scale 1 : 200

HOLE No. **0P5**

PROJECT: OCEANA

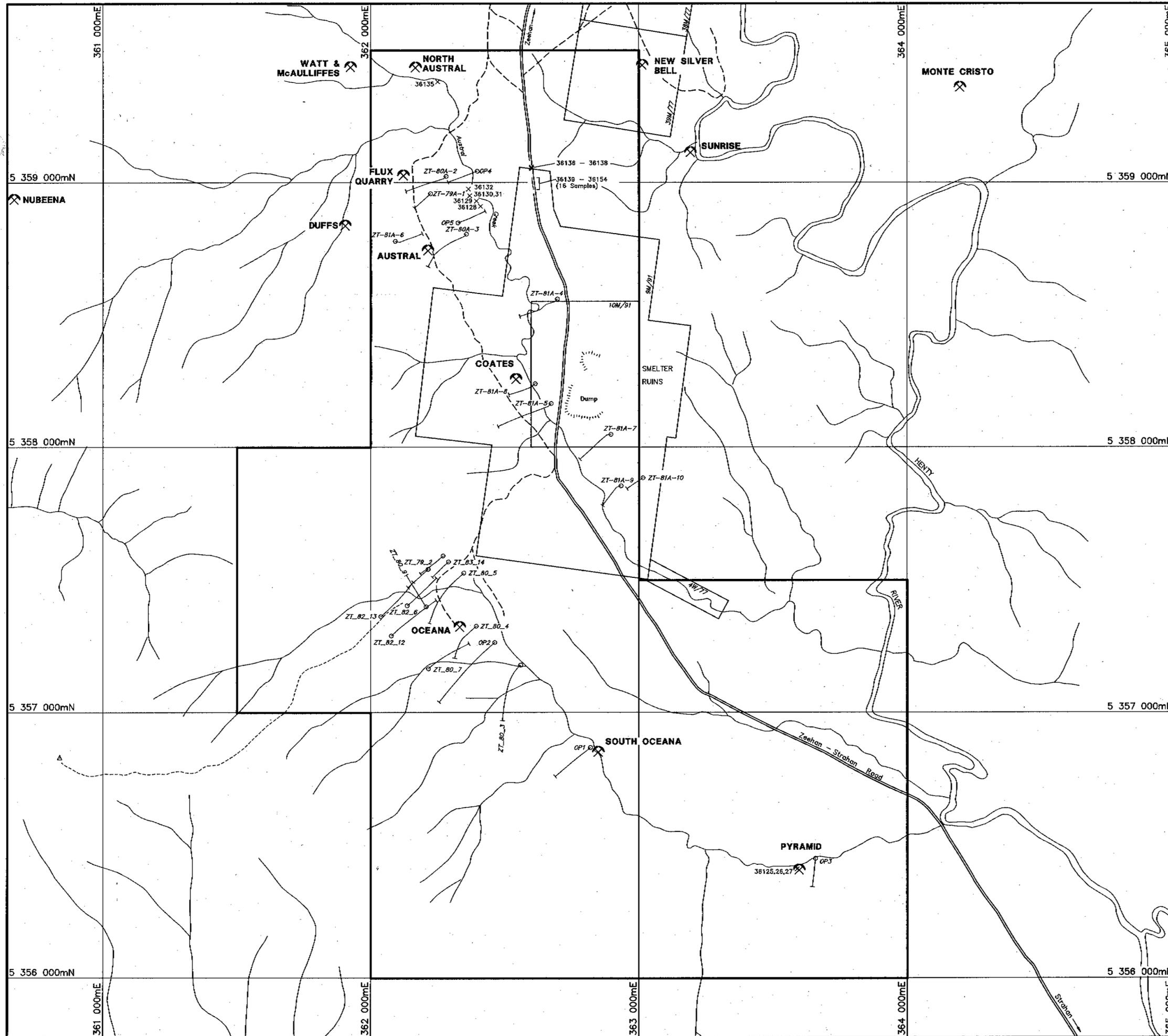


Page 8 of 8

DESCRIPTION				GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
197.20	203.00	QUARTZITE; medium grained pale grey quartzite, silica cement;			200		FIRST CLEAVAGE, Spaced.
					210		
					220		

217212

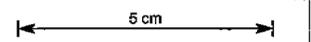
FIGURES



95-3782

PASMINCO EXPLORATION RL 8809
 OCEANA ANNUAL REPORT 1994-95 -
 SAXON MS

217214

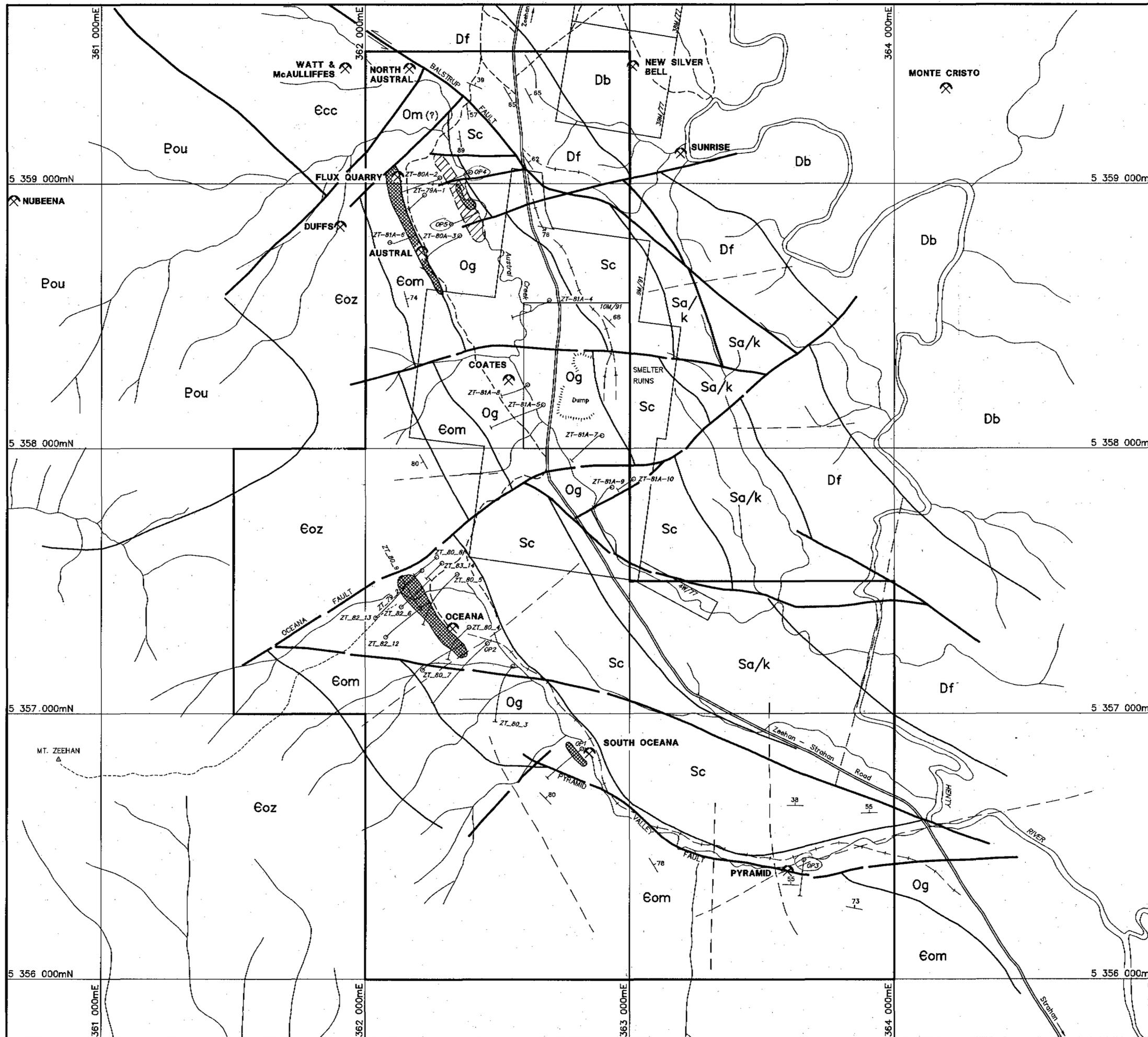


PASMINCO EXPLORATION
 A Division of Pasminco Australia Limited

COMPILED : M.S.S.
 DATE : Sept, 1995
 DRAWN :
 REVISIONS :
 FILE : 10_DCSAM
 DRAWING No.
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R.L. 8809 - OCEANA
**SAMPLE
 LOCATIONS**

SCALE 1:10,000 FIG. No.
 7



LEGEND

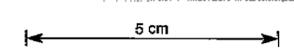
- Db Bell Shale
Laminated mudstone with minor siltstone
- Df Florence Quartzite
Pale grey-white fine sandstone or siltstone.
Abundantly fossiliferous in part
- Sa/k Amber Slate/Keel Quartzite
- Sc Crotty Quartzite
Interbedded sandstone, siltstone, mudstone
- Og Gordon Limestone
Fossiliferous micrite dominated limestone.
Weathers to black mud
- Eom Moina Sandstone
Quartz sandstone, common bioturbation
- Eoz Mt. Zeehan Conglomerate
Siltastic cobble-boulder conglomerate
- Ecc Crimson Creek Formation
Dark green-grey volcanoclastic greywacke to siltstone
- Pou Oonah Formation
Siltstone and shale

- Airphoto Lineament
- Geological Contact
- Fault
- Siderite intersected in aircore drilling
- Ironstone derived from mineralization

95-3782

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SAXON MS

217215



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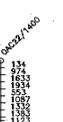
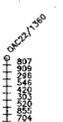
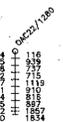
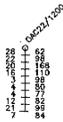
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DATE : Oct, 1991
DRAWN : G.M.B.
REVISIONS : M.S.S.
DATE : May 1995
DATE : Sept, 1995

RL8809 - OCEANA
INTERPRETIVE
GEOLOGY

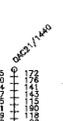
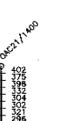
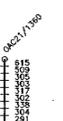
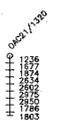
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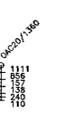
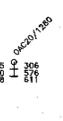
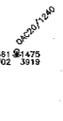
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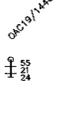
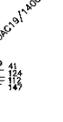
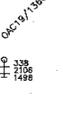
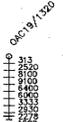
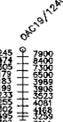
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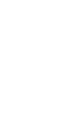
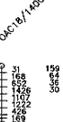
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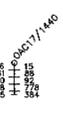
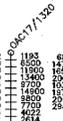
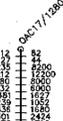
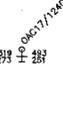
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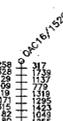
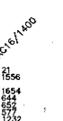
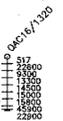
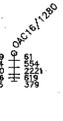
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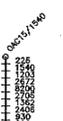
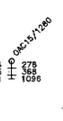
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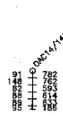
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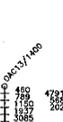
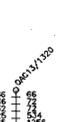
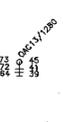
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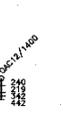
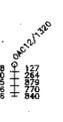
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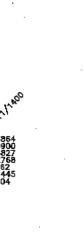
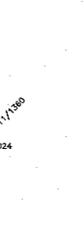
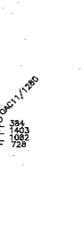
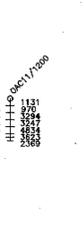
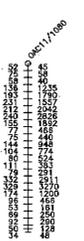
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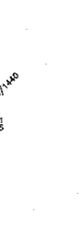
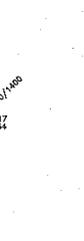
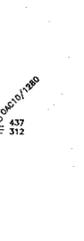
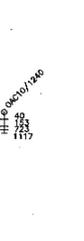
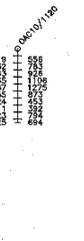
1200N



1100N

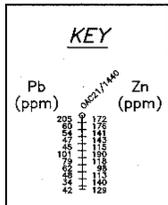


1000N



95-3782

PASMINCO EXPLORATION RL 8809
OCEANA ANNUAL REPORT 1994-95 -
SAXON MS



5 cm

PASMINCO EXPLORATION
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COMPILED : M.S.S.
DATE : May 1995
DRAWN : G.M.B.
REVISIONS :

FILE : LASPBZN

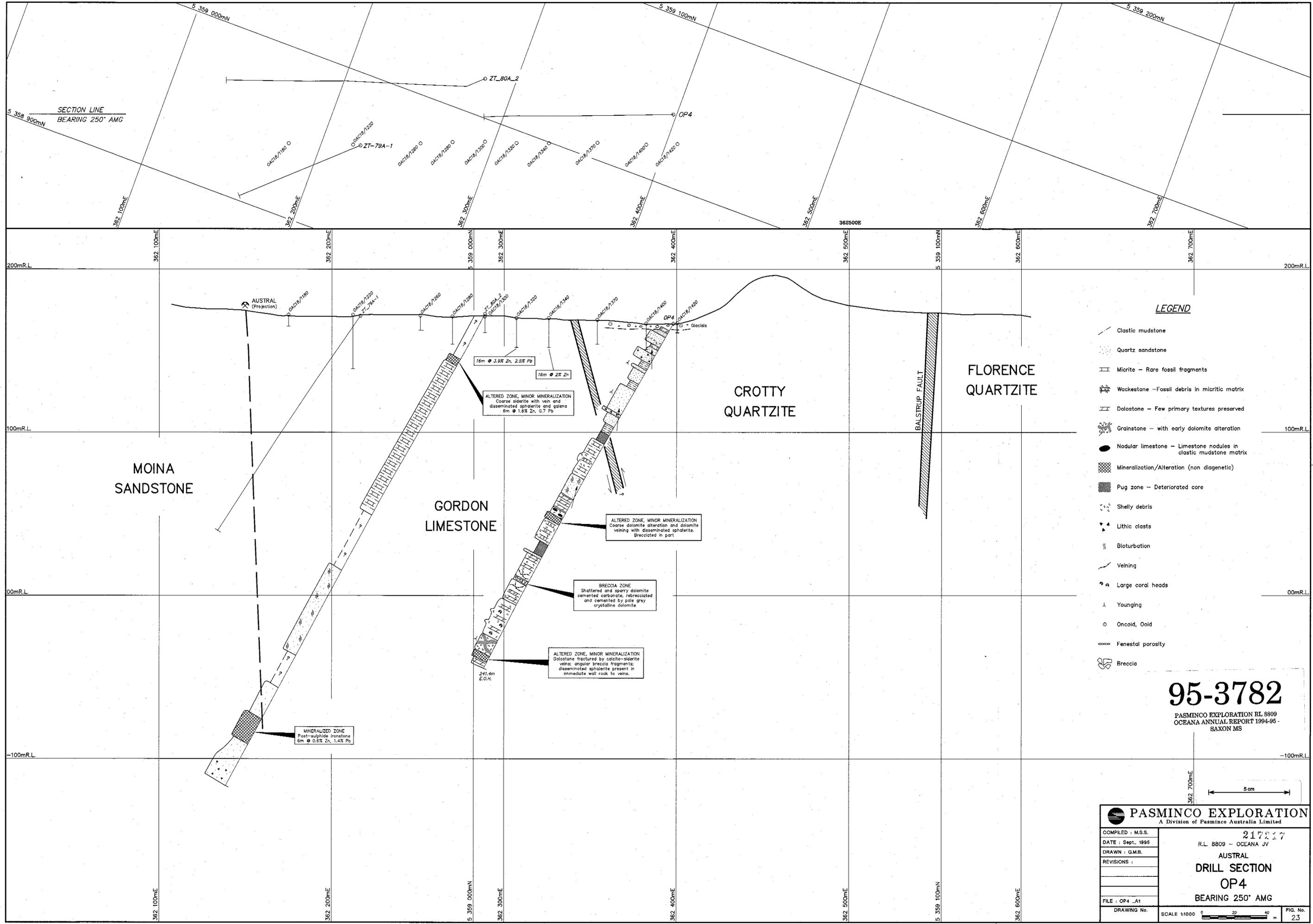
DRAWING No. 311-GC-042

SCALE 1:1000

FIG. No. 16

217216

RL 8809 - OCEANA
AUSTRAL
AIR CORE DRILLING
Pb & Zn PROFILES



LEGEND

- Clastic mudstone
- Quartz sandstone
- ▨ Micrite - Rare fossil fragments
- ⊠ Wackestone - Fossil debris in micritic matrix
- ▨ Dolostone - Few primary textures preserved
- ⊠ Grainstone - with early dolomite alteration
- Nodular limestone - Limestone nodules in clastic mudstone matrix
- ▨ Mineralization/Alteration (non diagenetic)
- ▨ Pug zone - Deteriorated core
- ⊠ Shelly debris
- ▲ Lithic clasts
- ⊠ Bioturbation
- Veining
- Large coral heads
- ▲ Younging
- Oncoid, Ooid
- ⊠ Fenestral porosity
- ⊠ Breccia

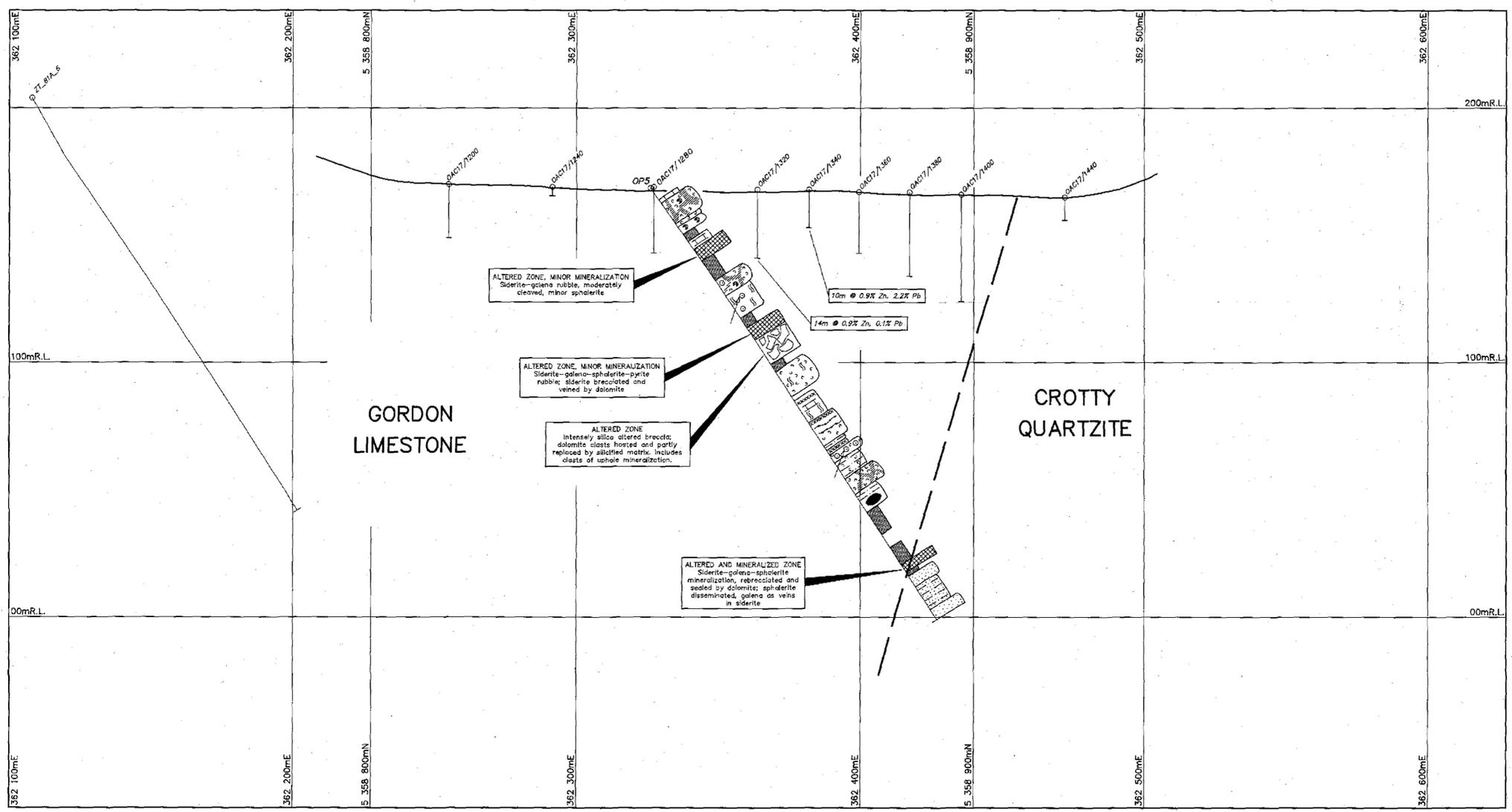
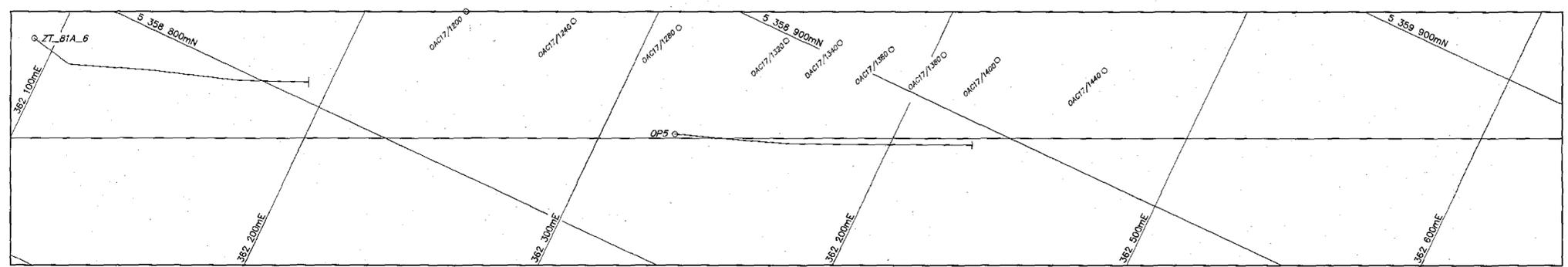
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COMPILED : M.S.S.	217817
DATE : Sept., 1995	R.L. 8809 - OCEANA JV
DRAWN : G.M.B.	AUSTRAL
REVISIONS :	DRILL SECTION
	OP4
	BEARING 250° AMG
FILE : OP4_A1	DRAWING No. 23
SCALE 1:1000	FIG. No. 23

LEGEND

- Clastic mudstone
- Quartz sandstone
- Micrite - Rare fossil fragments
- Wackestone - Fossil debris in micritic matrix
- Dolostone - Few primary textures preserved
- Grainstone - with early dolomite alteration
- Nodular limestone - Limestone nodules in clastic mudstone matrix
- Mineralization/Alteration (non diagenetic)
- Pug zone - Deteriorated core
- Shelly debris
- Lithic clasts
- Bioturbation
- Veining
- Large coral heads
- Younging
- Oncoid, Ooid
- Fenestral porosity
- Breccia



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COMPILED : M.S.S. DATE : Sept. 1995 DRAWN : G.M.B. REVISIONS : FILE : OPS_A1 DRAWING No.	<div style="float: right; font-size: small;">217218</div> R.L. 8809 - OCEANA JV AUSTRAL DRILL SECTION OP5 BEARING 65° AMG SCALE 1:1000 FIG. No. 24