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No. 2908

EL 269

ANDAMOOKA

**PROGRESS REPORTS TO LICENCE EXPIRY/RENEWAL,
FOR THE PERIOD 17/11/1976 TO 16/11/1978**

Submitted by
Western Mining Corp. Ltd
1978

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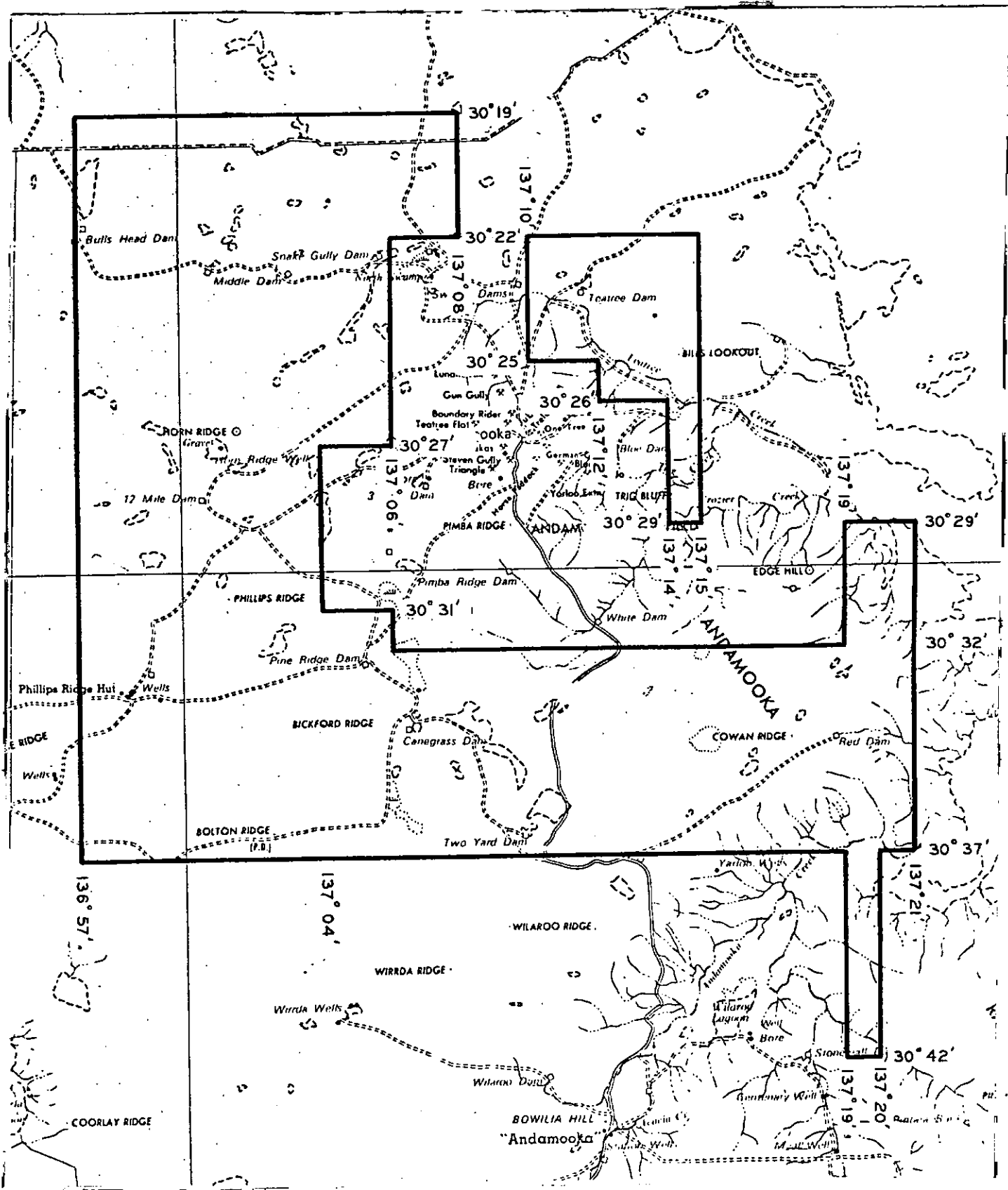
Customer Services
Resources and Energy Group
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101 Grenfell Street, Adelaide 5000

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Facsimile: (08) 8204 1880



Government of South Australia

Department for Manufacturing,
Innovation, Trade, Resources and Energy



SCALE 1:250 000

KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

APPLICANT: WESTERN MINING CORPORATION LIMITED
D.M. 233/76 AREA 790 Square kilometres
1: 250 000 PLANS

ANDAMOOKA
LOCALITY ANDAMOOKA AREA

EXPIRED

EXPIRY DATE EXTENSION.
16.11.78

E.L. No. 269

EXPLORATION LICENCE 269

BILLS LOOKOUT

QUARTERLY REPORT 17TH NOVEMBER 1976 - 17TH FEBRUARY 1977

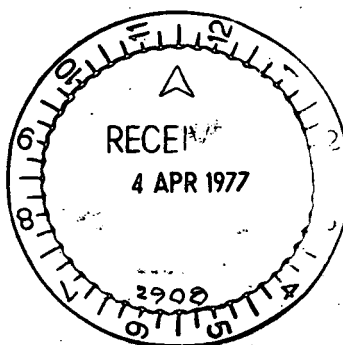


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- | | |
|---------|---|
| 2324-02 | Bouguer anomaly & Total Magnetic Intensity Profile PR1. |
| 2324-03 | Bouguer anomaly & Total Magnetic Intensity Profile PR2. |
| 2324-04 | Bouguer anomaly (Andamooka Nth.) |
| 2324-05 | Bouguer anomaly (Koolymilka Nth.) |

1. INTRODUCTION

This is the first quarterly report on Exploration Licence 269 recording exploration activities between 17th November 1976 and 17th February 1977.

During the quarter a ground gravity and magnetic survey was completed.

2. EXPLORATION COMPLETED DURING THE QUARTER

A ground gravity and magnetic survey was completed over the Phillips Ridge area. The gravity data is compiled into profiles whereas the magnetic data is presented as profiles and as a contour plan at 1:50,000 scale.

The compilation of the gravity data shows an overall continuation of the Olympic Dam feature towards Phillips Ridge. The shape of the anomaly at Phillips Ridge shows less symmetry and appears to be a more complicated feature.

The correlation of magnetics and gravity at Phillips Ridge is good and three possible drill sites have been chosen.

3. EXPLORATION PROPOSED

Drilling will commence on a site at Phillips Ridge in the near future.

Several fill in geophysical traverses may be completed to further define possible drill targets.

4. EXPENDITURE STATEMENT

Expenditure on the licenced area was \$10,136.

The expenditure breakdown by function is:-

	\$	%
Geology	1,270	12.5
Geophysics	8,528	84.1
Administration	120	1.2
Surveying	103	1.0
Draughting	115	1.2
	<u>\$10,136</u>	<u>100.0</u>

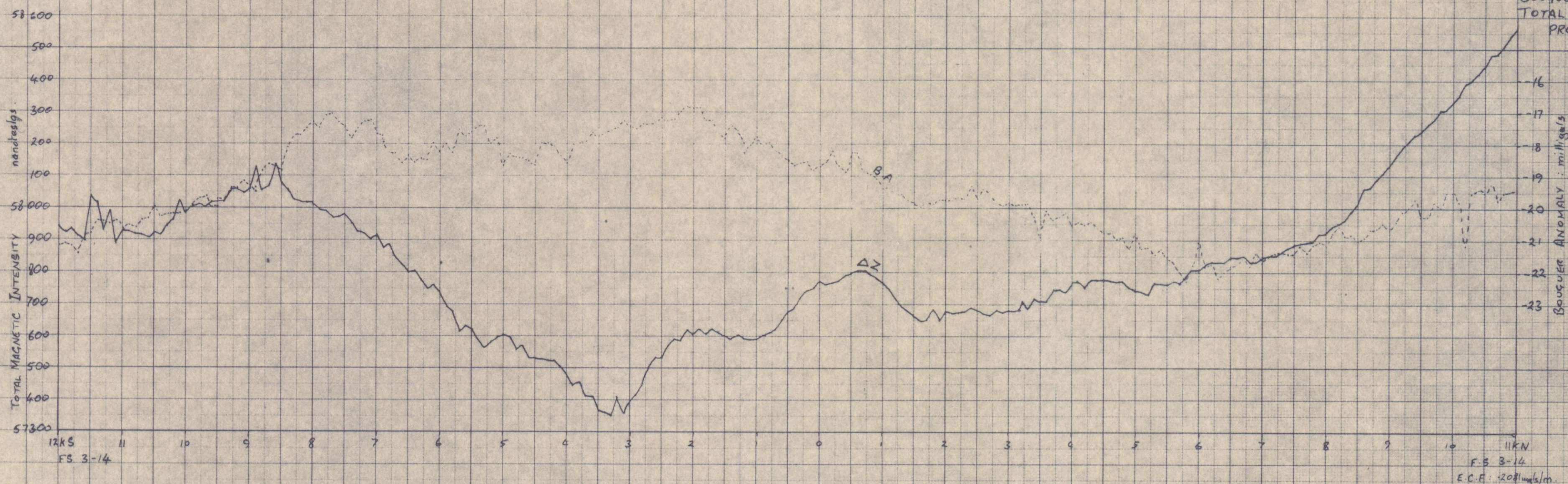
Data is not available for

- Ground Magnetic survey
- Ground Gravity survey

PHILLIP RIDGE
ANDAMOOKA SH 53-12

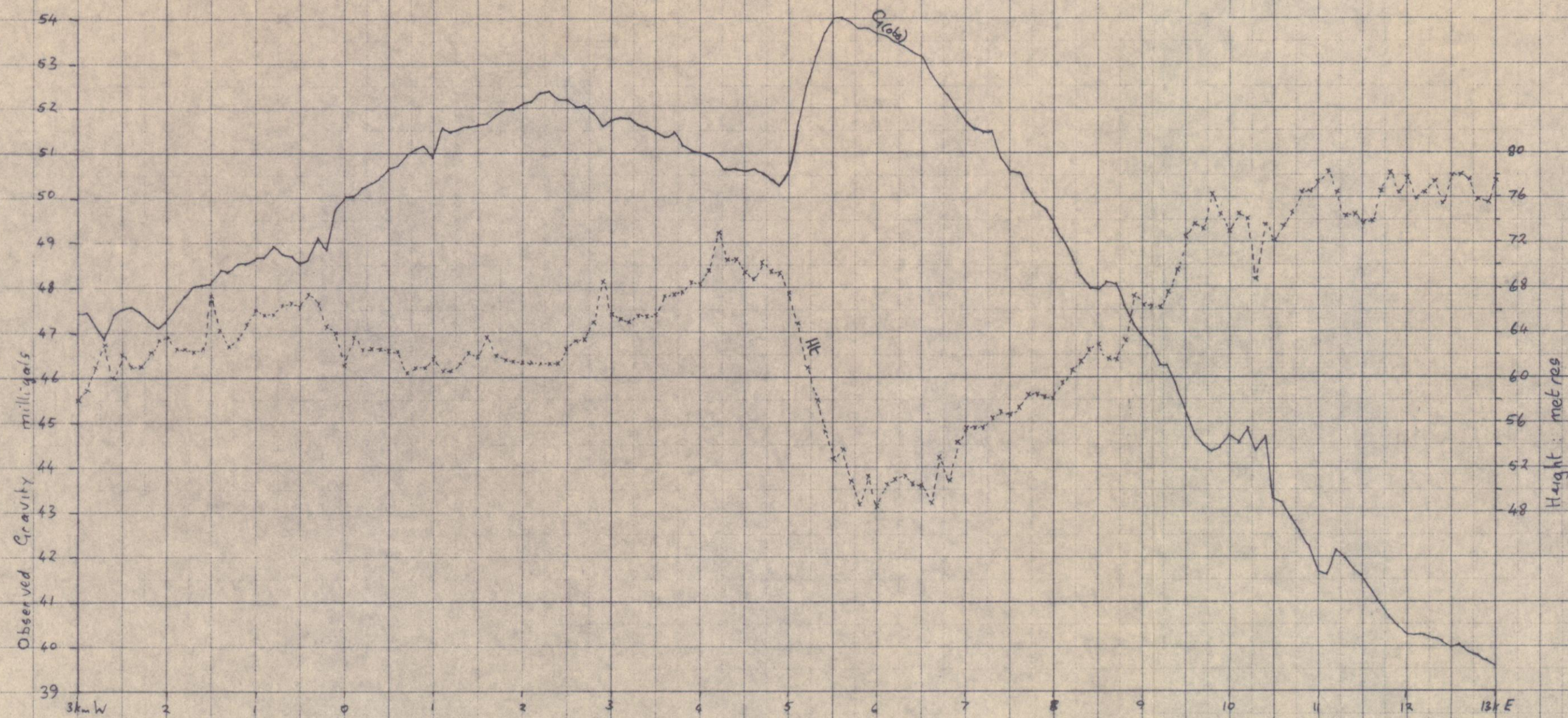
LINE PRI

BOUGUER ANOMALY AND
TOTAL MAGNETIC INTENSITY
PROFILES



WESTERN MINING CORPORATION
1976

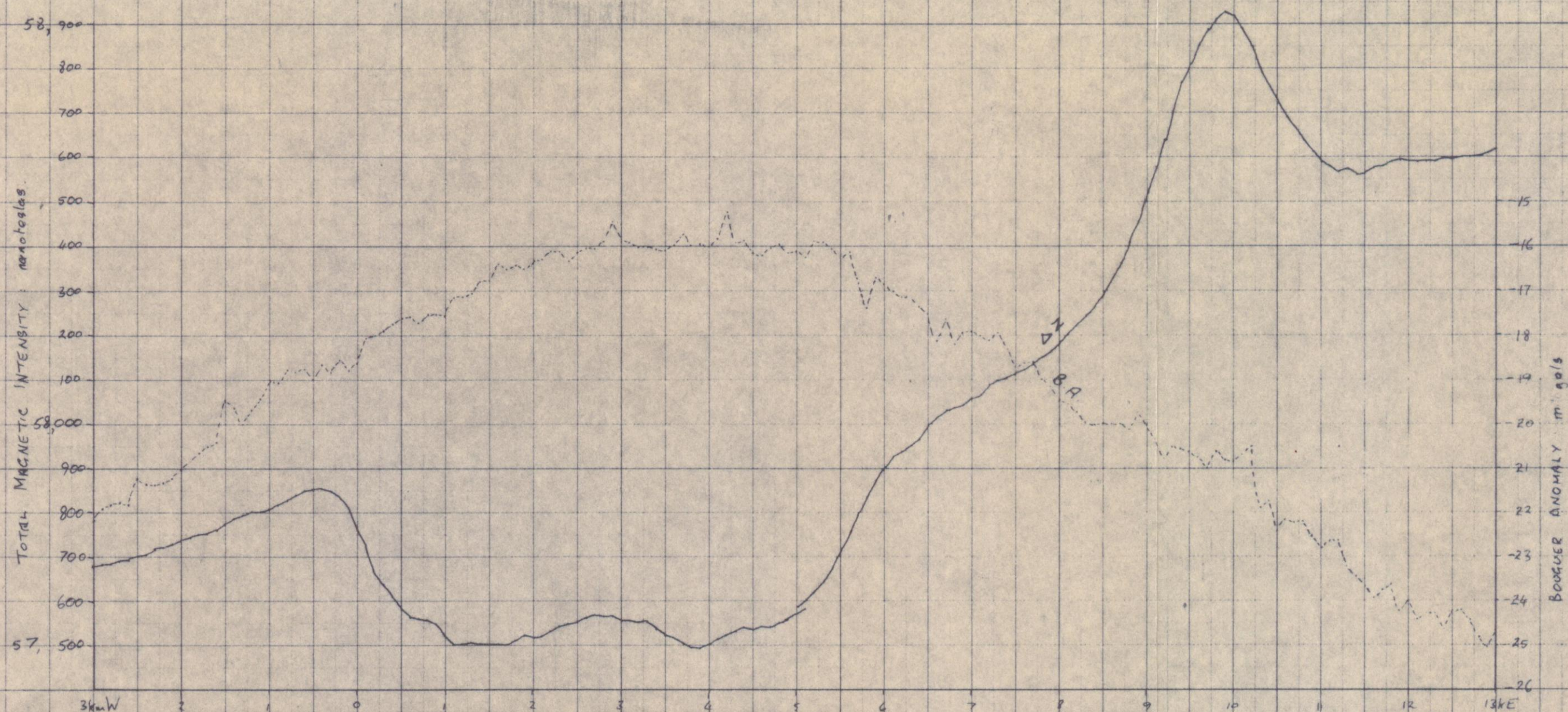
100 M H. 11585
" BETTER MAD "



PHILLIP RIDGE
ANDAMOOKA SH 53-12

LINE PR 2

BOUQUER ANOMALY
AND
TOTAL MAGNETIC INTENSITY
PROFILES.



34W
FS 1, 2, 16, 21
Nov 1976

12 13E
FS 1, 2, 13-17
Nov 1976
EAF = 2081 mgs/m

WESTERN MINING CORPORATION : Nov 1976
H. R. R. R.

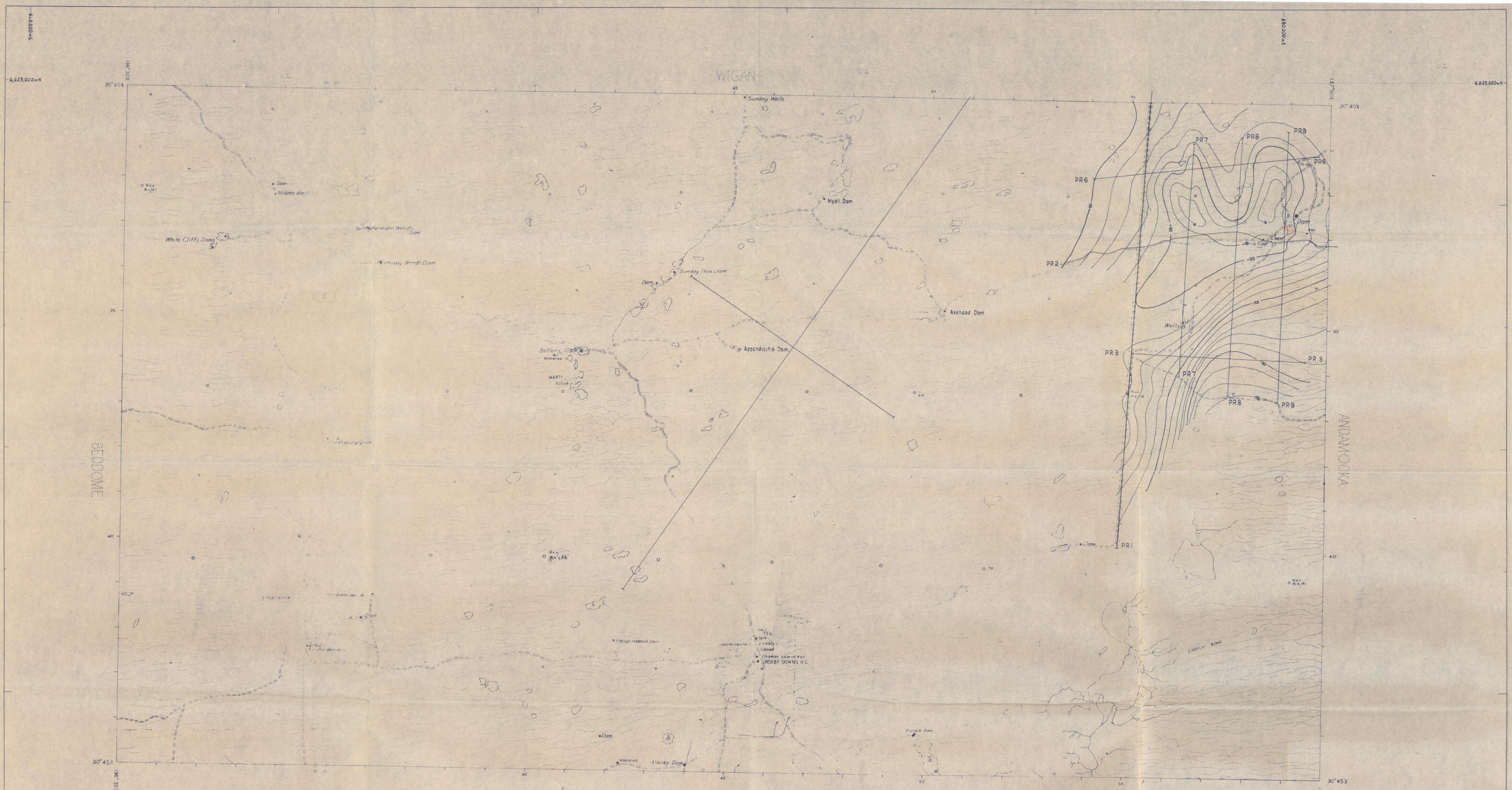


SHEET INDEX		
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ANDAMOOKA		
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Australian Map No. 10
Universal Transverse Mercator Projection
Australian National Spheroid



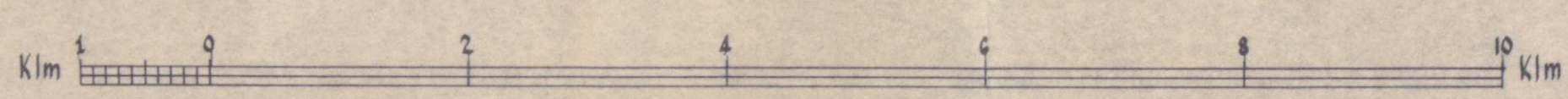
WESTERN MINING CORPORATION LIMITED	
ANDAMOOKA (N th)	
SH 53-12 SHEET 6336 I & II	
BOUGUER ANOMALY	
CONTOUR INTERVAL 1mg. E.C.F. 2081 mg./m.	
SCALE 50000	PLAN 10
DATE December 1976	



SHEET INDEX

6237	6337	6437
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AUSTRALIAN MAP GRID
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
AUSTRALIAN NATIONAL SPHEROID



WESTERN MINING CORPORATION LIMITED

KOOLYMILKA (Nth)
SH 53-12 SHEET 6236 (I & IV)
BOUGUER ANOMALY

SCALE 1:50,000
DATE December '76
PLANS

WESTERN MINING CORPORATION LIMITED

EXPLORATION LICENCE 269

BILLS LOOKOUT

QUARTERLY REPORT 17TH FEBRUARY - 17TH MAY 1977



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1. INTRODUCTION
2. EXPLORATION COMPLETED DURING THE QUARTER
3. CONTINUATION
4. EXPENDITURE STATEMENT

1. INTRODUCTION

This is the second quarterly report on Exploration Licence 269 recording exploration activities between 17th February 1977 and 17th May, 1977.

2. EXPLORATION COMPLETED DURING THE QUARTER

Ground gravity and magnetic surveys completed during the previous quarter showed a good correlation between gravity and magnetic anomalies in the Phillips Ridge area.

Diamond drillhole PD1 was sited to test the source of the magnetic gravity anomalies and is currently in progress at a depth of 350 metres. There have been considerable difficulties with drilling due to cave-ins. The first hole was abandoned at a depth of 166 metres. Several percussion holes were drilled nearby in a search for water but this was unsuccessful and water is carted from Olympic Dam.

Diamond drillhole PD1 intersected sub-horizontal strata down to a depth of 336 metres. Below 336 metres a green, chloritic quartz veined basaltic rock containing minor pyrite and chalcopyrite was intersected. This hole will be logged and the log included in the next quarterly report.

3. CONTINUATION

When the results from drillhole PD1 have been evaluated further drilling to test the Phillips Ridge structure will be considered.

Ground gravity and magnetics traversing is planned to detail the anomalies found in the Bills Lookout area east of the Andamooka Opal Field. Stratigraphic drilling will be programmed to test any anomalies defined.

4. EXPENDITURE STATEMENT

Total expenditure on the licence area up until 3rd May 1977 was \$31,330.

The expenditure breakdown by function is:-

	\$	%
Geology	2,438	7.8
Geophysics	9,819	31.3
Geochemistry	187	0.6
Surveying	651	2.1
Drafting	445	1.4
Drilling	17,557	56.0
Analytical	113	0.4
Administration	120	0.4
	<u>\$31,330</u>	<u>100.0</u>

...2...

Exploration Licence No. 269 is included in the amalgamated expenditure commitment for the Stuart Shelf area.

WESTERN MINING CORPORATION LIMITED

EXPLORATION LICENCE 269

BILLS LOOKOUT

QUARTERLY REPORT 17TH MAY 1977 - 17TH AUGUST 1977



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APPENDIX 1 GEOLOGICAL LOG OF PD1-A

APPENDIX 2 ANALYTICAL RESULTS PD1-A

1. INTRODUCTION

This is the third quarterly report on Exploration licence 269, recording exploration activities between 17th May 1977 and 17th August 1977.

2. EXPLORATION COMPLETED DURING THE QUARTER

Diamond drill hole PD1-A (previously entitled PD1) was completed at a depth of 414 metres. The hole has been logged and analysed and copies of the log and analyses are included in this report.

Ground gravity and magnetic traversing planned to detail anomalies east of the Andamooka Opal Field was postponed until the opal miners objections have been minimised.

3. CONTINUATION

It is planned to carry out the ground magnetic and gravity traversing, east of the Andamooka Opal Field, that was scheduled for the last quarter. It is hoped that the controversy surrounding the Opal Field reductions will not interfere with this programme. Stratigraphic drilling will be programmed to test any suitable anomalies defined.

4. EXPENDITURE STATEMENT

Total expenditure on the licence area up until 26th July 1977 was \$50,123, distributed as follows:-

...2...

EXPENDITURE STATEMENT CONT./

	<u>\$</u>	<u>%</u>
Geology	5,372	10.7
Geophysics	12,224	24.4
Geochemistry	187	0.4
Surveying	651	1.3
Drafting	881	1.8
Drilling	29,345	58.4
Analytical	1,031	2.1
Administration	432	0.9
	<hr/>	<hr/>
	\$50,123	100.0
	<hr/>	<hr/>

Exploration Licence No. 269 is included in the expenditure commitment for the Stuart Shelf area.

APPENDIX 1

GEOLOGICAL LOG OF PD1-A

DIAMOND DRILL LOG SHEET

SCALE 1:250

Logged by R. SMITH

Date 21/6/77

% CORE RECOY.	SCALE (m)	UNIT THICKNESS	UNIT INTERVAL	TEXTURE & STRUCTURE	GRAPHICAL LOG	PETROLOGY & MINERALOGY	TS, PS, XRD	DESCRIPTIVE LOG
	60							PRECOLLAR PRP 1-A to 69 (70) m
	70			med-small scale X bedding	Pws			1. cream/white med. to c.g. sandstone (freq. qtzite) ± v. abund. choc. brown lam. micaceous siltstone interbeds or laminae, (usually <1mm thick, but to several mm), lesser green silty laminae. Occ. brown shale. % brown siltstone bands decreases gradually to ~130 m, where the amount is very reduced, c.f. ~69-80m.
	80			"	Pws			grains in sandstone (qtzite) gen. well rounded to rounded, qtz with kaolin or clay in matrix (clay + qtz → qtzite matrix). Imp. choc. brown micac. siltstone bands: 69.50 - 70.22 74.90 - 75.14 75.25 - 76.25 92.71 - 92.96 94.47 - 94.70 98.12 - 98.35 99.64 - 99.76
	90			"	Pws			
	100							

DIAMOND DRILL LOG SHEET

SCALE 1:250

Logged by R. SMITH

Date 21/6/77

% CORE RECOV.	SCALE (m)	UNIT THICKNESS	UNIT INTERVAL	TEXTURE & STRUCTURE	GRAPHICAL LOG	PETROLOGY & MINERALOGY	TS, PS, XRD	DESCRIPTIVE LOG
	100							cream/white sandstone (qtzite) as above silty bands and laminae decrease down hole.
	110							
	120							
	130							below ~ 130m rock is gen. 1 pink med. gr. qtzite & some choc brown silty laminae and some 1 green silty laminae locally absent. glauconite.
	140							

DIAMOND DRILL LOG SHEET

SCALE 1:250

Logged by R. SMITH

Date 21/6/77

% CORE RECOY	SCALE (m)	UNIT THICKNESS	UNIT INTERVAL	TEXTURE & STRUCTURE	GRAPHICAL LOG	PETROLOGY & MINERALOGY	TS, PS, XRD	DESCRIPTIVE LOG
	140							as above, but shaly (silty) laminae decreasing down hole
	150				Pws	glauconite.		
	160		160	massive.	Pws			~160 → ~172 pure white, v. massive med to c.g. ang to rounded, friable sandstone
NQ	170		172	med. scale X bedding.	Pwc?	loc. glauconite.		brown laminae appear at ~172 m (microscopic blue brown siltstone, usually 1mm or less thick.) 172-192.20: pink-white & some red (from base of interval), well bedded, med grained siltstone. loc. silty bank 185.00-186.75; 192.00-192.70
BQ	180							

DIAMOND DRILL LOG SHEET

SCALE 1:250

Logged by: R. Smith

Date: 21/6/77

% CORE RECOVERY	SCALE (m)	UNIT THICKNESS	UNIT INTERVAL	TEXTURE & STRUCTURE	GRAPHICAL LOG	PETROLOGY & MINERALOGY	TS, PS, XRD	DESCRIPTIVE LOG
	180			some med-scale x-bedding	Pwc?			med-grained sandstone, as above
	190				Pwc?			silty bands near base
			193-20	ca. 90° minor small scale x-strat.	Pwt			Sharp contact. 193.20 - ~202 grey/maroon well lam siltstone ± lesser red/brown med to f.g. lam. sandstones, esp. ~ 199-201 m
	200			ca. 90° minor small scale x-strat.	Pwt			below 202 m, more typically Tregolana Shale (lam. choc-brown and l. green siltstone).
	210			ca. 90°	Pwt			
	220							

DIAMOND DRILL LOG SHEET

SCALE 1:250

Logged by D O'CONNOR

Date 23/5/77

% CORE RECOVERY	DEPTH (m)	UNIT THICK- NESS	UNIT INTERVAL	TEXTURE & STRUCTURE	GRAPHICAL LOG	PETROLOGY & MINERALOGY	TS, PS, X.R.D.	DESCRIPTIVE LOG
	220				Pwt			BROWN - MAROON - GREY COLOUR Banded FINELY LAMINATED FISSILE SHALE-SILTSTONE WITH SMALL SCALE CROSS BEDDING ABUNDANT THROUGHOUT AND OCCASIONAL GRADED BEDDING. SOME COARSER SILTY-GRAVEL CHOCOLATE BROWN BANDS OCCUR WITHIN THE SHALE BUT THEIR FREQUENCY DECREASES WITH DEPTH.
	230				Pwt			SHALE AS ABOVE
	240				Pwt			BROWN TEGOLANA SHALE - MINOR FAULTING. SHALE AS ABOVE VERTICAL JOINTING EVIDENT.
	250				Pwt			SHALE AS ABOVE

% CORE RECOVERY	DEPTH (m)	UNIT THICK- NESS	UNIT INTERVAL	TEXTURE & STRUCTURE	GRAPHICAL LOG	PETROLOGY & MINERALOGY	TS, PS, XRD	DESCRIPTIVE LOG
	260							SHALE AS ABOVE
	270			BEDDING SUB-HORIZONTAL	Pwt			BROWN - MAROON - GREY FINELY LAMINATED AND FISSILE SHALE-SILTSTONE WITH SMALL SCALE CROSS BEDDING ABUNDANT THROUGHOUT AND OCCASIONAL GRADED BEDDING. VERTICAL JOINTING IS DEVELOPED LOCALLY.
	280				Pwt			AS ABOVE
	290				Pwt			AS ABOVE VERTICAL FRACTURE
	300							

DIAMOND DRILL LOG SHEET

SCALE 1:250

Logged by D. O'Connor

Date 23/5/77

% CORE RECOVERY	SCALE (m)	UNIT THICK- NESS	UNIT INTERVAL	TEXTURE & STRUCTURE	GRAPHICAL LOG	PETROLOGY & MINERALOGY	TS, PS, X.R.D.	DESCRIPTIVE LOG
	300							
					Pwt.			BANDED LAMINATED FISSILE SHALE AS ABOVE BUT LESS FREQUENT GREEN MEMBERS PRESENT.
	310							
					Pwt.			AS ABOVE
	320							
					Pwt.			AS ABOVE
	330							
					Pwt.			SHALE NOW HAS BROWN MEMBERS ONLY. SOME SEDIMENTARY? BRECCIATION WITH BLEACHING ALONG CRACKS
		336.04						
		338.50			S	MATRIX IS CHOC BRN V. FINE GR. MATERIAL		MEDIUM-COARSE GRAINED POLYHEDRIC SEDIMENTARY BRECCIA WITH ANGULAR FRAGMENTS RANGING UP TO 10CM DIAMETER. FRAGMENTS BECOME SMALLER TOWARDS BOTTOM OF UNIT WITH A PROPORTION GREATER PROPORTION BEING A F.B. GREEN CRYSTALLINE BASIC VOLCANIC. SOME PINK FELS. & GRANITE FRAGS.
					Mv			
	340							

DIAMOND DRILL LOG SHEET

SCALE 1:250

Logged by D O'CONNOR

Date 23/5/77

% CORE RECOY.	SCALE (m)	UNIT THICKNESS	UNIT INTERVAL	TEXTURE & STRUCTURE	GRAPHICAL LOG	PETROLOGY & MINERALOGY	T.S., P.S., X.R.D.	DESCRIPTIVE LOG
	340							F.G. GREEN ROCK COMPRISING FELSPAR LATHS SURROUNDED BY CHLORITIC MATERIAL AND SOME BIOTITE (MAFIC VOLCANIC). MAGNETIC (NOT VISIBLE IN PLACE) ROCK IS FRACTURED THROUGHOUT WITH BROWN F.G. HEM., BARITE AND ABUNDANT SN + CP FILLING FRACTURES. A PALE GREEN CLAY IN FRACTS TOWARDS UPPER CONTACT.
						MV		CHANGE TO LESS FELS RICH (MORE MAFIC) ROCK. WITH A GREATER ABUNDANCE OF MAGNETITE AND MORE PYRITE.
						MV		F.G. OLIVE GREEN CHLOR, BIOTITE MAFIC VOLC WITH CALCITE ON FRACTS.
	350						349.8M DA28928	
		351.4				G		F.G. VEINED QTZ, RED FELS, CHLORITE, BIOTITE. ROCK - ALTERED GRANITE (SOME BRN HEM FELS)
		352.0						F.G. OLIVE GREEN CHLOR + BIOT MAFIC VOLC WITH CALCITE ON FRACTS. SOME BROWN HEM DUSTING ON CHLORITE.
		354.65				MV		
							355.5M DA28922	M.C.G. QTZ, PINK FELS, CHLOR + SERIC GRANITE SOME PY ASSOC WITH CALCITE IN VEINING, ESPECIALLY ON CONTACTS
						G		MINOR CP ON LOWER CONTACT.
	360		359.8				360.65 DA28925	
								M.G. MELANOCRATIC QTZ, CHLOR, BIOT GNEISS - SCHIST (BECOMES BANDED AT 361.4M. MINOR PY ALONG SOME BANDING + IN FRACTURES. GRADUALLY BECAME MORE LEUCOCRATIC WITH DEPTH
	370							
		373.0						M.G. MELANOCRATIC BANDED QTZ, PINK FELS, BIOT, CHLORITE. (SOME HEM IN CHLORITE → SCORIN POLYCRYSTALLINITY) WITH PY + MINOR CP ON VEINING + IN SOME BANDING. ALSO CALCITE ON FRACTS.
	380							

% CORE RECOY.	SCALE (m)	UNIT THICK- NESS	UNIT INTERVAL	TEXTURE & STRUCTURE	GRAPHICAL LOG	PETROLOGY & MINERALOGY	TS, PS, X.R.D.	DESCRIPTIVE LOG
	380							AS ABOVE
			384.0					M.-C.G. GRADATIONAL CHANGE FROM MELANOCRATIC SCHIST TO PREDOMINANTLY PINK FELS, QTZ, + BIOT LEUCO-GNEISS
	390						390.65m D4 28924	
			393.3 293.85 394.2					AS ABOVE BUT BIOTITE RICH BANDS ARE PRESENT BROKEN CORE - CHLOR RICH - FAULT ZONE
			398.0					M.-C.G. MELANOCRATIC BIOT RICH GNEISS WITH PINK FELS + CHLORITE
	400							
								C.G. LEUCOCRATIC GNEISS WITH PREDOMINANTLY PINK FELS, QTZ, AND BIOTITE WITH POORLY DEVELOPED BANDING. PYRITE OCCURS OCCASIONALLY
	410							
			414.0 E04					EPH.
	420							

APPENDIX 2

ANALYTICAL RESULTS PD1-A

DIAMOND DRILL SAMPLE DATA SHEET

SCALE 1:250

Sampled by

Date

SCALE (m)	SAMPLE NUMBER	THICKNESS c. chip s. split	UNIT INTERVAL		Ni	Cu	Co	Ag	Pb	Zn			
			FROM	TO									
60													
													Pre-collar PRP 1A to 70 m
70	DA 051501	2.00c	70.00	72.00	20	ND	ND	2.0	30	10			
	DA 051502	2.00c	72.00	74.00	20	ND	ND	1.0	40	20			
	DA 051503	2.00c	74.00	76.00	30	ND	10	ND	30	20			
	DA 051504	2.00c	76.00	78.00	10	ND	ND	2.0	30	20			
	DA 051505	2.00c	78.00	80.00	10	ND	ND	1.0	30	30			
80	DA 051506	2.00c	80.00	82.00	20	10	ND	2.0	20	20			
	DA 051507	2.00c	82.00	84.00	ND	ND	ND	1.0	20	10			
	DA 051508	2.00c	84.00	86.00	10	10	ND	1.0	20	ND			
	DA 051509	2.00c	86.00	88.00	ND	10	ND	2.0	20	10			
	DA 051510	2.00c	88.00	90.00	10	10	ND	ND	20	10			
90	DA 051511	2.00c	90.00	92.00	ND	10	ND	1.0	20	10			
	DA 051512	2.00c	92.00	94.00	50	10	10	3.0	40	40			
	DA 051513	2.00c	94.00	96.00	ND	ND	ND	2.0	ND	10			
	DA 051514	2.00c	96.00	98.00	ND	ND	ND	2.0	ND	10			
100	DA 051515	2.00c	98.00	100.00	40	ND	10	1.0	30	20			

DIAMOND DRILL SAMPLE DATA SHEET

SCALE 1:250

Sampled by

Date

SCALE (m)	SAMPLE NUMBER	THICKNESS c. chip or split	UNIT INTERVAL		Ni	Cu	Co	Ag	Pb	Zn			
			FROM	TO									
100	DA 051516	2.00	100.00	102.00	20	ND	10	ND	20	10			
	DA 051517	2.00	102.00	104.00	20	ND	ND	ND	20	ND			
	DA 051518	2.00	104.00	106.00	20	ND	ND	ND	30	ND			
	DA 051519	2.00	106.00	108.00	10	ND	ND	ND	20	ND			
110	DA 051520	2.00	108.00	110.00	ND	ND	ND	ND	10	ND			
	DA 051521	2.00	110.00	112.00	ND	ND	ND	ND	10	ND			
	DA 051522	2.00	112.00	114.00	10	ND	ND	ND	25	10		1	
	DA 051523	2.00	114.00	116.00	10	ND	ND	ND	20	ND			
120	DA 051524	2.00	116.00	118.00	20	ND	ND	1.0	30	20			
	DA 051525	2.00	118.00	120.00	ND	ND	ND	ND	10	10			
	DA 051526	2.00	120.00	122.00	10	ND	ND	1.0	10	ND			
	DA 051527	2.00	122.00	124.00	10	ND ¹⁰	ND	1.0	20	ND			
130	DA 051528	2.00	124.00	126.00	10	ND	ND	ND	20	ND			
	DA 051529	2.00	126.00	128.00	10	ND	ND	ND	20	ND			
	DA 051530	2.00	128.00	130.00	ND	ND	ND	ND	10	ND			
	DA 051531	2.00	130.00	132.00	10	ND	ND	ND	10	ND			
140	DA 051532	2.00	132.00	134.00	10	ND	ND	ND	10	ND			
	DA 051533	2.00	134.00	136.00	ND	ND	ND	ND	20	ND			
	DA 051534	2.00	136.00	138.00	10	ND	ND	ND	20	ND			
	DA 051535	2.00	138.00	140.00	10	ND	ND	ND	ND	ND			

DIAMOND DRILL SAMPLE DATA SHEET

SCALE 1:250

Sampled by

Date

SCALE (m)	SAMPLE NUMBER	THICKNESS c. chip or split	UNIT INTERVAL		Ni	Cu	Co	Ag	Pb	Zn			
			FROM	TO									
140	DA 051536	2.00 c	140.00	142.00	10	ND	ND	ND	10	ND			
	DA 051537	2.00 c	142.00	144.00	10	ND	ND	ND	ND	ND			
	DA 051538	2.00 c	144.00	146.00	ND	ND	ND	ND	10	ND			
	DA 051539	2.00 c	146.00	148.00	10	10	ND	ND	20	10			
150	DA 051540	2.00 c	148.00	150.00	20	ND	10	ND	20	10			
	DA 051541	2.00 c	150.00	152.00	ND	ND	ND	ND	10	ND			
	DA 051542	2.00 c	152.00	154.00	10	ND	ND	ND	ND	ND			
	DA 051543	2.00 c	154.00	156.00	ND	ND	ND	ND	ND	ND			
160	DA 051544	2.00 c	156.00	158.00	ND	ND	ND	ND	ND	ND			
	DA 051545	2.00 c	158.00	160.00	ND	ND	ND	ND	ND	10			
	DA 051546	2.00 c	160.00	162.00	10	ND	ND	ND	ND	ND			
	DA 051547	2.00 c	162.00	164.00	ND	ND	ND	ND	ND	10			
170	DA 051548	2.00 c	164.00	166.00	10	ND	ND	ND	ND	ND			
	DA 051549	2.00 c	166.00	168.00	10	ND	ND	ND	ND	ND			
	DA 051550	2.00 c	168.00	170.00	ND	ND	ND	ND	ND	ND			
	DA 051551	2.00 c	170.00	172.00	ND	ND	ND	ND	ND	ND			
180	DA 051552	2.00 c	172.00	174.00	ND	ND	ND	ND	ND	10			
	DA 051553	2.00 c	174.00	176.00	ND	ND	ND	ND	ND	20			
	DA 051554	2.00 c	176.00	178.00	ND	10	ND	ND	10	20			
	DA 051555	2.00 c	178.00	180.00	10	ND	ND	ND	10	30			

DIAMOND DRILL SAMPLE DATA SHEET

SCALE 1:250

Sampled by

Date

SCALE (m)	SAMPLE NUMBER	THICKNESS c. chip or split	UNIT INTERVAL		Ni	Cu	Co	Ag	Pb	Zn			
			FROM	TO									
180	DA 051556	2.00 c	180.00	182.00	10	ND	ND	1.0	10	20			
	DA 051557	2.00 c	182.00	184.00	ND	ND	ND	1.0	10	10			
	DA 051558	2.00 c	184.00	186.00	10	ND	ND	1.0	ND	10			
	DA 051559	2.00 c	186.00	188.00	50	10	10	1.0	10	20			
190	DA 051560	2.00 c	188.00	190.00	10	10	ND	1.0	20	10			
	DA 051561	2.00 c	190.00	192.00	40	50	20	1.0	30	90			
	DA 051562	2.00 c	192.00	194.00	40	100	30	ND	30	70			
	DA 051563	2.00 c	194.00	196.00	40	100	20	1.0	30	50			
200	DA 051564	2.00 c	196.00	198.00	20	30	20	ND	20	40			
	DA 051565	2.00 c	198.00	200.00	20	10	10	ND	10	30			
	DA 051566	2.00 c	200.00	202.00	40	20	30	ND	20	50			
	DA 051567	2.00 c	202.00	204.00	40	50	30	1.0	ND	50			
210	DA 051568	2.00 c	204.00	206.00	20	100	20	1.0	20	50			
	DA 051569	2.00 c	206.00	208.00	30	50	30	ND	20	40			
	DA 051570	2.00 c	208.00	210.00	20	20	20	ND	20	50			
	DA 051571	2.00 c	210.00	212.00	30	20	20	1.0	20	50			
220	DA 051572	2.00 c	212.00	214.00	20	20	20	ND	20	50			
	DA 051573	2.00 c	214.00	216.00	20	10	20	1.0	20	40			
	DA 051574	2.00 c	216.00	218.00	30	20	20	ND	10	50			
	DA 051575	2.00 c	218.00	220.00	40	30	20	1.0	20	50			

DIAMOND DRILL SAMPLE DATA SHEET

SCALE 1:250

Sampled by

Date

SCALE (m)	SAMPLE NUMBER	THICKNESS c. chip d. split	UNIT INTERVAL		Ni	Cu	Co	Ag	Pb	Zn			
			FROM	TO									
220	DA 051576	2.00 c	220.00	222.00	40	40	20	1.0	40	40			
	DA 051577	2.00 c	222.00	224.00	20	10	10	ND	30	40			
	DA 051578	2.00 c	224.00	226.00	10	30	10	1.0	30	40			
	DA 051579	2.00 c	226.00	228.00	40	50	20	1.0	30	50			
	DA 051580	2.00 c	228.00	230.00	30	10	20	1.0	20	60			
230	DA 051581	2.00 c	230.00	232.00	40	10	20	1.0	20	50			
	DA 051582	2.00 c	232.00	234.00	40	10	20	2.0	40	60			
	DA 051583	2.00 c	234.00	236.00	40	20	20	ND	30	50			
	DA 051584	2.00 c	236.00	238.00	40	50	20	ND	40	50			
	DA 051585	2.00 c	238.00	240.00	40	60	20	1.0	30	50			
240	DA 051586	2.00 c	240.00	242.00	50	120	20	ND	40	50			
	DA 051587	2.00 c	242.00	244.00	50	50	20	2.0	50	50			
	DA 051588	2.00 c	244.00	246.00	40	60	20	2.0	60	60			
	DA 051589	2.00 c	246.00	248.00	50	30	20	2.0	50	50			
	DA 051590	2.00 c	248.00	250.00	50	20	20	2.0	50	50			
250	DA 051591	2.00 c	250.00	252.00	40	10	30	1.0	40	60			
	DA 051592	2.00 c	252.00	254.00	40	140	20	1.0	40	50			
	DA 051593	2.00 c	254.00	256.00	60	10	20	1.0	40	60			
	DA 051594	2.00 c	256.00	258.00	50	10	30	1.0	30	60			
	DA 051595	2.00 c	258.00	260.00	60	10	20	1.0	40	60			

DIAMOND DRILL SAMPLE DATA SHEET

SCALE 1:250

Sampled by R. J. EVANS

Date 23/5/77

SCALE (m)	SAMPLE NUMBER	THICKNESS chip split	UNIT INTERVAL		N	Cu	Co	Ag	Pb	Zn			
			FROM	TO									
260	DA 051596	2.00	260.00	262.00	50	10	20	1.0	40	60			
	DA 051597	2.00	262.00	264.00	50	20	30	2.0	40	60			
	DA 051598	2.00	264.00	266.00	50	10	20	3.0	50	60			
	DA 051599	2.00	266.00	268.00	50	10	20	2.0	40	60			
	DA 051600	2.00	268.00	270.00	50	10	20	3.0	40	70			
270	DA 051601	2.00	270.00	272.00	50	20	30	1.0	30	60			
	DA 051602	2.00	272.00	274.00	50	10	20	1.0	40	70			
	DA 051603	2.00	274.00	276.00	50	10	20	2.0	30	60			
	DA 051604	2.00	276.00	278.00	50	10	30	1.0	50	70			
	DA 051605	2.00	278.00	280.00	50	150	20	2.0	60	160			
280	DA 051606	2.00	280.00	282.00	50	20	30	1.0	30	70			
	DA 051607	2.00	282.00	284.00	50	10	20	2.0	40	60			
	DA 051608	2.00	284.00	286.00	50	10	20	1.0	50	70			
	DA 051609	2.00	286.00	288.00	60	10	20	1.0	50	70			
	DA 051610	2.00	288.00	290.00	60	10	20	1.0	40	70			
290	DA 051611	2.00	290.00	292.00	50	10	30	2.0	40	70			
	DA 051612	2.00	292.00	294.00	60	10	20	2.0	40	70			
	DA 051613	2.00	294.00	296.00	50	10	20	2.0	40	70			
	DA 051614	2.00	296.00	298.00	60	10	20	1.0	50	80			
	DA 051615	2.00	298.00	300.00	60	10	20	1.0	50	70			
300													

Hole No PD 1A

P 6 of 9 P

DIAMOND DRILL SAMPLE DATA SHEET

SCALE 1:250

Sampled by R. J. EVANS

Date 19/5/1977

SCALE (m)	SAMPLE NUMBER	THICKNESS chip split	UNIT INTERVAL		Ni	Cu	Co	Ag	Pb	Zn	Cr	U ₃ O ₈	Mo	Fe %	Mn	Au	Ba
			FROM	TO													
300	DA 051616	2.00	300.00	302.00	60	ND	20	3.0	50	70							
	DA 051617	2.00	302.00	304.00	70	10	30	2.0	50	70							
	DA 051618	2.00	304.00	306.00	60	10	20	1.0	60	70							
	DA 051619	2.00	306.00	308.00	70	10	30	2.0	50	70							
	DA 051620	2.00	308.00	310.00	60	10	20	3.0	40	70							
310	DA 051621	2.00	310.00	312.00	50	10	20	2.0	50	70							
	DA 051622	2.00	312.00	314.00	60	10	20	ND	40	70							
	DA 051623	2.00	314.00	316.00	60	10	20	2.0	30	70							
	DA 051624	2.00	316.00	318.00	50	10	20	1.0	30	70							
	DA 051625	2.00	318.00	320.00	50	10	20	1.0	60	70							
320	DA 051626	2.00	320.00	322.00	50	10	20	2.0	50	70							
	DA 051627	2.00	322.00	324.00	40	10	20	3.0	30	70							
	DA 051628	2.00	324.00	326.00	40	10	20	ND	40	70							
	DA 051629	2.00	326.00	328.00	50	10	20	2.0	40	70							
	DA 051630	2.00	328.00	330.00	60	30	20	1.0	40	70							
330	DA 051631	2.00	330.00	332.00	40	10	20	1.0	40	70							
	DA 051632	2.00	332.00	334.00	60	20	10	ND	50	70							
	DA 051633	2.00	334.00	336.00	40	120	20	1.0	70	50							
	DA 051634	2.50	336.00	338.50	100	100	60	2.0	40	90	60	< 10	10	7.2	3300	0.05	700
	DA 051635	1.50	338.50	340.00	130	3300	90	2.0	70	100	100	< 10	10	8.6	1540	< 0.05	70

DIAMOND DRILL SAMPLE DATA SHEET

SCALE 1:250

Sampled by R.J. EVANS

Date 19/5/1977

SCALE (m)	SAMPLE NUMBER	THICKNESS c. chip split	UNIT INTERVAL		Ni	Cu	Co	Ag	Pb	Zn	Cr	U ₃ O ₈	Mo	Fe%	Mn	Au	Ba	
			FROM	TO														
340	DA 051636	2.00 c	340.00	342.00	120	2500	80	3.0	70	100	100	< 10	10	8.5	2200	< 0.05	240	
	DA 051637	2.00 c	342.00	344.00	110	3400	80	1.0	120	100	80	< 10	10	6.2	6700	< 0.05	50	7.5 m 2500 C
	DA 051638	2.00 c	344.00	346.00	130	1800	100	ND	60	160	90	< 10	ND	8.6	3550	< 0.05	50	
	DA 051639	2.00 c	346.00	348.00	130	500	90	1.0	50	130	70	< 10	ND	9.8	2800	< 0.05	130	
	DA 051640	2.00 c	348.00	350.00	130	300	90	ND	30	100	60	< 10	10	9.2	1450	< 0.05	170	
350	DA 051641	2.00 c	350.00	352.00	90	300	50	1.0	50	70	40	1	ND	7.8	2100	< 0.05		
	DA 051642	2.00 c	352.00	354.00	145	230	70	2.0	70	90	80	< 1	ND	8.4	6300	< 0.05		
	DA 051643	2.00 c	354.00	356.00	60	160	30	2.0	40	50	30	1	ND	6.5	2200	< 0.05		
	DA 051644	2.00 c	356.00	358.00	160	900	40	2.0	60	60	30	< 1	20	9.8	880	0.05		
	DA 051645	2.00 c	358.00	360.00	110	360	60	1.0	60	100	180	1	ND	13.1	2000	< 0.05		
360	DA 051646	2.00 c	360.00	362.00	90	190	60	1.0	40	60	160	1	ND	12.2	1610	< 0.05		
	DA 051647	2.00 c	362.00	364.00	60	100	50	ND	30	40	60	< 1	ND	9.5	1470	< 0.05		
	DA 051648	2.00 c	364.00	366.00	90	490	50	1.0	60	60	50	< 1	ND	9.8	1080	< 0.05		
	DA 051649	2.00 c	366.00	368.00	70	70	50	ND	50	50	50	2	ND	10.1	1970	< 0.05		
	DA 051650	2.00 c	368.00	370.00	100	170	40	1.0	60	70	70	2	10	10.1	2800	< 0.05		
370	DA 051651	2.00 c	370.00	372.00	40	100	20	ND	30	20	10	2	10	5.2	630	< 0.05		
	DA 051652	2.00 c	372.00	374.00	40	60	30	1.0	30	20	10	< 1	ND	5.0	900	< 0.05		
	DA 051653	2.00 c	374.00	376.00	90	730	40	ND	80	40	30	1	ND	7.1	690	< 0.05		
	DA 051654	2.00 c	376.00	378.00	100	600	100	1.0	60	60	40	1	ND	8.1	1710	0.05		
	DA 051655	2.00 c	378.00	380.00	80	290	60	ND	50	40	50	< 1	ND	9.0	1580	< 0.05		
380																		

DIAMOND DRILL SAMPLE DATA SHEET

SCALE 1:250

Sampled by R. J. Evans

Date 26/5/77

SCALE (m)	SAMPLE NUMBER	THICKNESS c chip D split	UNIT INTERVAL		Ni	Cu	Co	Ag	Pb	Zn	Cr	U ₃ O ₈	Mo	Fe%	Mn	Al	Ba
			FROM	TO													
380	DA 051656	2.00c	380.00	382.00	80	300	250	1.0	70	30	50	2	ND	7.0	1400	<0.05	
	DA 051657	2.00c	382.00	384.00	30	1220	30	ND	50	20	20	<1	ND	4.5	420	0.05	
	DA 051658	2.00c	384.00	386.00	50	520	30	ND	50	40	20	11	ND	6.5	1050	0.05	
	DA 051659	2.00c	386.00	388.00	30	60	20	ND	40	40	20	<1	ND	4.4	570	<0.05	
	DA 051660	2.00c	388.00	390.00	30	40	20	ND	30	60	30	<1	ND	4.2	950	<0.05	
390	DA 051661	2.00c	390.00	392.00	30	10	10	1.0	20	40	20	1	10	2.1	660	<0.05	
	DA 051662	2.00c	392.00	394.00	100	30	30	ND	40	40	40	3	10	4.6	1900	<0.05	
	DA 051663	2.00c	394.00	396.00	120	100	40	ND	60	20	100	1	10	6.4	910	<0.05	
	DA 051664	2.00c	396.00	398.00	30	80	20	ND	60	60	50	3	ND	4.5	610	<0.05	
	DA 051665	2.00c	398.00	400.00	10	20	10	ND	40	30	20	2	ND	2.9	530	<0.05	
400	DA 051666	2.00c	400.00	402.00	10	10	20	ND	40	40	10	2	ND	3.4	600	<0.05	
	DA 051667	2.00c	402.00	404.00	10	30	20	ND	60	80	10	1	ND	3.5	750	<0.05	
	DA 051668	2.00c	404.00	406.00	10	60	20	ND	40	60	30	4	ND	4.7	400	<0.05	
	DA 051669	2.00c	406.00	408.00	20	100	20	ND	40	30	30	2	ND	4.5	330	<0.05	
	DA 051670	2.00c	408.00	410.00	20	60	20	1.0	40	40	30	<1	ND	4.5	420	<0.05	
410	DA 051671	2.00c	410.00	412.00	20	150	30	ND	50	40	20	1	ND	4.0	570	<0.05	
	DA 051672	2.00c	412.00	414.00	20	480	50	ND	40	40	30	2	20	6.4	750	<0.05	

WESTERN MINING CORPORATION LIMITED

EXPLORATION LICENCE 269

BILLS LOOKOUT

QUARTERLY REPORT 17TH AUGUST - 17TH NOVEMBER 1977



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1. INTRODUCTION
2. EXPLORATION COMPLETED DURING THE QUARTER
3. CONTINUATION
4. EXPENDITURE STATEMENT

1. INTRODUCTION

This is the fourth quarterly report on Exploration Licence 269, recording exploration activities between 17th August and 17th November 1977.

2. EXPLORATION COMPLETED DURING THE QUARTER

No field exploration took place during the quarter, but studies of core from diamond drill hole PD1-A are continuing.

3. CONTINUATION

Ground gravity and magnetic surveys are planned east of the Andamooka Opal Field, to be followed with stratigraphic diamond drilling of suitable anomalies. The timing of this programme will depend upon the level of resistance of the opal miners to our activities in the area.

4. EXPENDITURE STATEMENT

Total expenditure on the licence up until 18th October 1977 was \$53,016 distributed as follows:-

	<u>\$</u>	<u>%</u>
Geology	6,286	11.9
Geophysics	12,224	23.1
Geochemistry	573	1.1
Surveying	651	1.2
Drafting	2,222	4.2
Drilling	29,345	55.3
Analytical	1,283	2.4
Administration	<u>432</u>	<u>0.8</u>
	<u>53,016</u>	<u>100.0</u>

Exploration Licence No.269 is included in the amalgamated expenditure commitment for the Stuart Shelf area.

WESTERN MINING CORPORATION LIMITED

EXPLORATION LICENCE 269

BILLS LOOKOUT

QUARTERLY REPORT 17TH NOVEMBER 1977 - 17TH FEBRUARY 1978



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1. INTRODUCTION
2. EXPLORATION COMPLETED DURING THE QUARTER
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4. EXPENDITURE STATEMENT

1. INTRODUCTION

This is the fifth quarterly report on Exploration Licence 269, recording exploration activities between 17th November 1977 and 17th February 1978, the Licence having been extended to a period 24 months to 17th November, 1978.

2. EXPLORATION COMPLETED DURING THE QUARTER

No field exploration took place during the quarter.

3. CONTINUATION

Planned ground gravity and magnetic surveys east of the Andamooka Opal Field will proceed when the Department advises that negotiations with the opal miners have been completed or that work can commence.

4. EXPENDITURE STATEMENT

Total expenditure on the licence to 7th February, 1978 was \$54,497 distributed as follows:

	<u>\$</u>	<u>%</u>
Geology	7,732	14.2
Geophysics	12,224	22.4
Geochemistry	583	1.1
Surveying	651	1.2
Draughting	2,222	4.1
Drilling	29,345	53.8
Analytical	1,283	2.4
Administration	<u>457</u>	<u>0.8</u>
	54,497	100

Exploration Licence No. 269 is included in the amalgamated expenditure commitment for the Stuart Shelf area.

WESTERN MINING CORPORATION LIMITED

EXPLORATION LICENCE 269

BILLS LOOKOUT

QUARTERLY REPORT 17TH FEBRUARY - 17 TH MAY 1978

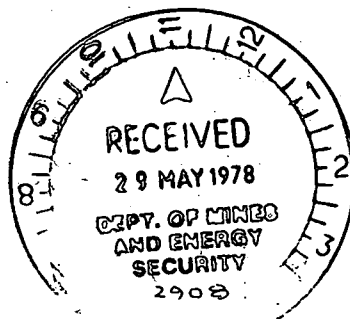


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1. INTRODUCTION
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4. EXPENDITURE STATEMENT

1. INTRODUCTION

This is the sixth quarterly report on Exploration Licence 269 recording exploration activities between 17th February and 17th May, 1978.

2. EXPLORATION COMPLETED DURING THE QUARTER

No field exploration took place during the quarter.

3. CONTINUATION

Geophysical surveys east of the Andamooka Opal Field will commence early next quarter. This work has been planned for about six months but was not carried out because of a request by the Department of Mines and Energy to refrain from activity close to the Opal Field. Permission to proceed in areas that do not contain Cretaceous sediments has now been received. Stratigraphic diamond drilling will take place to test any suitable geophysical anomalies located.

4. EXPENDITURE STATEMENT

Total expenditure on the licence to 2nd May 1978 was \$54,515, distributed as follows:-

	<u>\$</u>	<u>%</u>
Geology	7,750	14.2
Geophysics	12,224	22.4
Geochemistry	583	1.1
Surveying	651	1.2
Draughting	2,222	4.1
Drilling	29,345	53.8
Analytical	1,283	2.4
Administration	<u>457</u>	<u>0.8</u>
	54,515	100.0

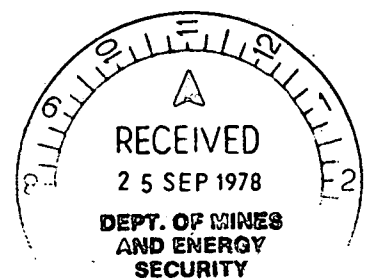
Exploration Licence No. 269 is included in the amalgamated expenditure commitment for the Stuart Shelf area.

WESTERN MINING CORPORATION LIMITED

EXPLORATION LICENCE 269

BILLS LOOKOUT

QUARTERLY REPORT 17TH MAY - 17TH AUGUST 1978



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1. INTRODUCTION
2. EXPLORATION COMPLETED DURING THE QUARTER
3. CONTINUATION
4. EXPENDITURE STATEMENT

1. INTRODUCTION

This is the seventh quarterly report on Exploration Licence 269 recording exploration activities between 17th May and 17th August, 1978.

2. EXPLORATION COMPLETED DURING THE QUARTER

Ground geophysical traversing of the Bill's Lookout area north east of the Andamooka Opal Field has been completed. Instrument failure has created problems in the levelling of the gravity survey and results are not yet to hand. Contoured magnetic and gravity plans of the area should be available during the next quarter and if so will be included with the next quarterly report to 17th November, 1978.

3. CONTINUATION

Stratigraphic diamond drilling will be conducted to test any suitable geophysical anomalies.

4. EXPENDITURE STATEMENT

Total expenditure on the licence to 25th July 1978 was \$68,474 distributed as follows:-

	<u>\$</u>	<u>%</u>
Geology	7,753	11.3
Geophysics	25,971	37.9
Geochemistry	583	0.9
Surveying	651	0.9
Draughting	2,311	3.4
Drilling	29,345	42.9
Analytical	1,403	2.0
Administration	<u>457</u>	<u>0.7</u>
	<u>\$68,474</u>	<u>100.0</u>

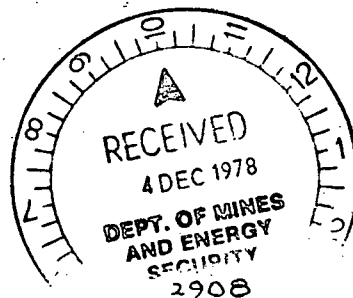
Exploration Licence No. 269 is included in the amalgamated expenditure commitment for the Stuart Shelf area.

WESTERN MINING CORPORATION LIMITED

EXPLORATION LICENCE 269

BILLS LOOKOUT

QUARTERLY REPORT 17TH AUGUST - 17TH NOVEMBER 1978



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ENCLOSURES

1. SHEET 6337 II & III GROUND MAGNETIC CONTOUR PLAN 1:50,000
2. SHEET 6337 II & III BOUGUER GRAVITY CONTOUR PLAN 1:50,000

1. INTRODUCTION

This is the eighth quarterly report on Exploration Licence 269 recording exploration activities between 17th August and 17th November 1978.

2. EXPLORATION COMPLETED DURING THE QUARTER

The ground geophysical traversing and levelling in the Bills Lookout area were completed last quarter and the results have been reduced and contoured. Plans are included in this report.

A strong positive gravity anomaly is virtually coincident with a strong negative magnetic anomaly approximately 2km north east of Teatree Dam. The negative magnetic anomaly is considered to be due to a remnantly magnetized body at an estimated depth of 800m below surface.

3. CONTINUATION

Precollar percussion drilling and stratigraphic diamond drilling are programmed to take place in the near future.

4. EXPENDITURE STATEMENT

Total expenditure on the Licence to 17th October 1978 was \$83,179, distributed as follows:-

	<u>\$</u>	<u>%</u>
Geology	9,071	10.9
Geophysics	38,777	46.6
Geochemistry	583	0.7
Surveying	659	0.8
Draughting	2,786	3.4
Drilling	29,345	35.3
Analytical	1,422	1.7
Administration	<u>536</u>	<u>0.6</u>
	<u>83,179</u>	<u>100.0</u>

Exploration Licence No.269 is included in the amalgamated expenditure commitment for the Stuart Shelf Area.

Data is not available for

- Ground Magnetic survey
- Ground Gravity survey

