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**FINAL SURRENDER REPORT
ON EXPLORATION FOR PERIOD ENDED
30 MAY 2001**

**PROJECTS
C117-1993 NIMARY
E53/273, E53/434, M53/420**

VOLUME 1 OF 1

Author: L Daley

Date: 1 June 2001

Authorised by: Bob Perring

Distribution: Normandy Exploration Library – Adelaide ☐
Normandy – North Yandal Library ☐
WA Department of Minerals and Energy ☒

Reference: FILENAME E53-273,434,M53-420 S01

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Report No 28873

BOX 11177



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LIMITED**

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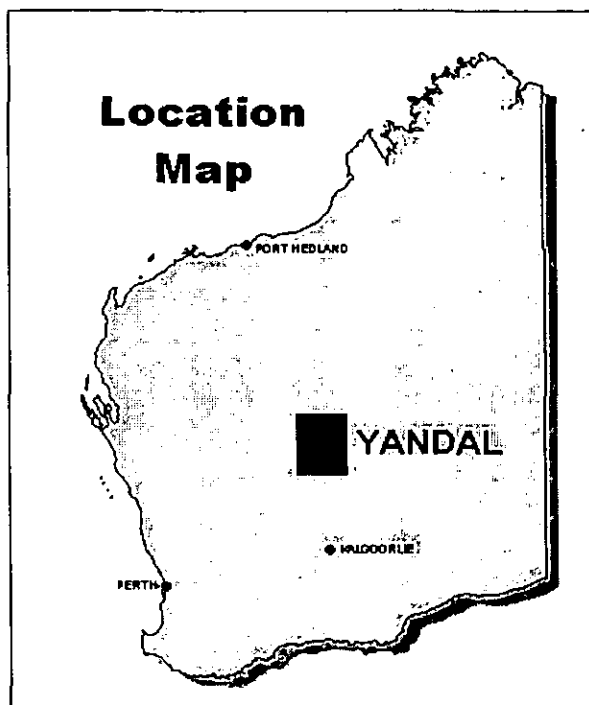
SUMMARY

REPORT NO 28873

TITLE Final Surrender Report On Exploration For Period Ended
30 May 2001 Projects C117-1993 Nimary E53/273, E53/434, M53/420

AUTHOR L Daley

REPORT DATE 1 June 2001

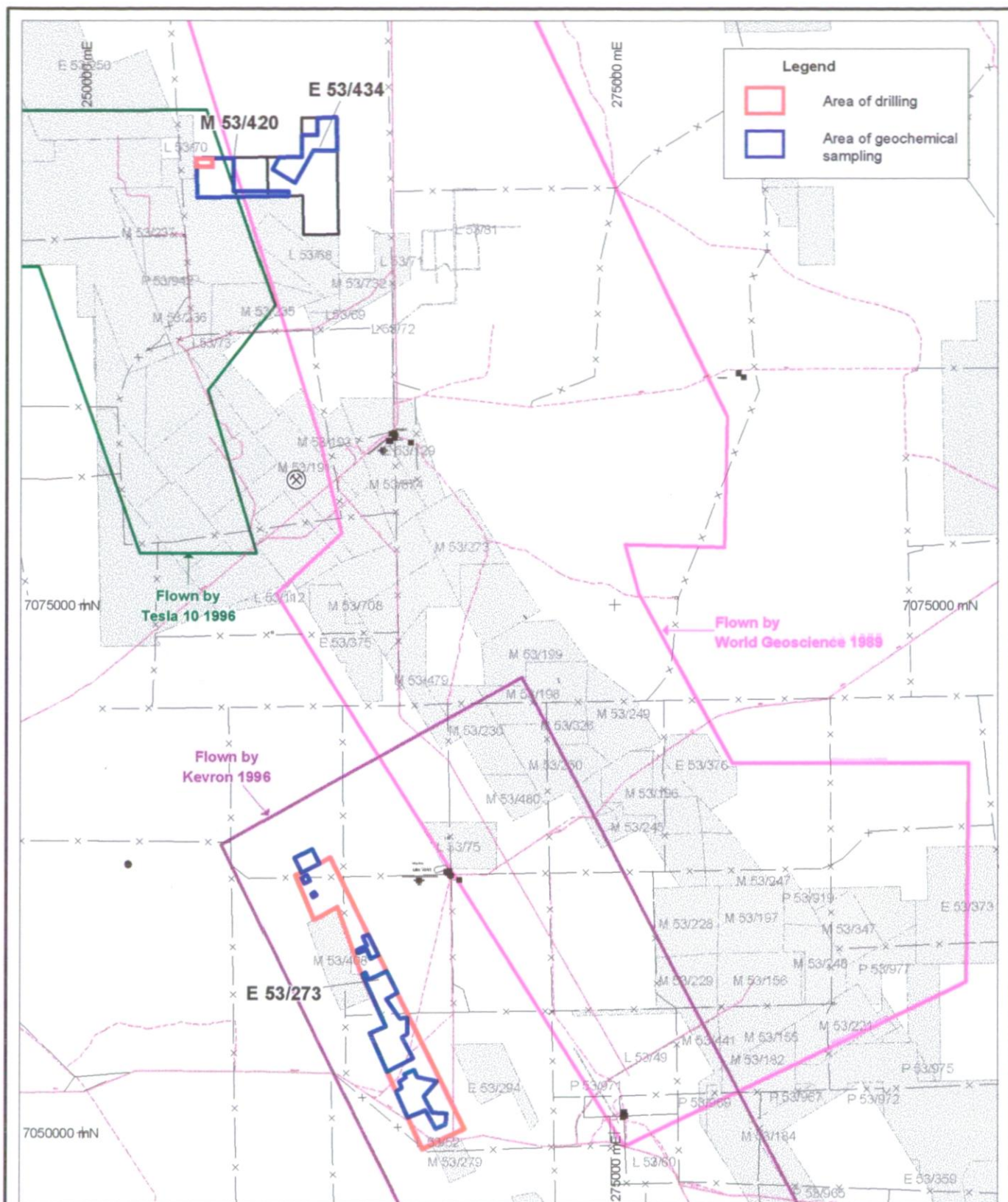


SUMMARY

Figure 1

WORK SUMMARY FOR CURRENT TERM

Tenement	Geophysics	Petrology No of samples	Surface Geochemistry No of samples	RAB Drilling No of Holes	RAB Drilling Metres
				82	4081
				Aircore Drilling	Aircore Metres
				92	5207
				Vac Drilling No of Holes	Vac Drilling Metres
				2	20



Location Map



0 5 10
kilometres



NORMANDY YANDAL OPERATIONS LIMITED
REGIONAL EXPLORATION

Project:

YANDAL PROJECT

Title:

C117/1993

EXPLORATION INDEX

Author: L.D.

Date: 14/6/01

Scale: 1:250 000

Drawn: M.S.B.

Office: PERTH

Revised:

Revised Date:

Dwg No.: 24700M30.WOR

Geodetic Datum: AGD 84

Projection & Zone: AMG Zone51

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Appendix 1	Surface Geochemistry
Appendix 2	RAB drill collars surveys assays and geology

1. CONCLUSIONS AND RECOMMENDATIONS

Work conducted on the three tenements has shown little potential to host an economic gold resource. The tenements have been subsequently relinquished.

2. INTRODUCTION

This report describes work conducted on the surrendered tenements from the original grant of the tenements. E53/434 has undergone 1 partial surrender in 1999 prior to the current final surrender and is the subject of a separate report.

3. LOCATION AND ACCESS

Figure 2

The Nimary Project is located in the Eastern Murchison Goldfields of Western Australia. It is 40 km NE of the Wiluna township and 750 km NE of Perth.

Travel from Perth to Wiluna via Meekatharra is by bitumen and maintained gravel roads. Access to the tenements is good with the graded, formed gravel road from Wiluna to the old Jundee Homestead passing through the southern portion of the project. Access within the project is by way of maintained gravel roads, existing tracks, fence-lines and earlier exploration access tracks and grids.

4. TENURE

Hunter Resources Ltd, Eagle Mining Corporation NL and Australian Metals Corporation NL hold the tenements. Eagle Mining Corp. took over the other two companies who in turn were taken over by Great Central Mines Ltd. In June 2000 Great Central Mines were taken over by Normandy Mining Ltd who renamed the wholly owned subsidiary Normandy Yandal Operations Ltd.

Tenement Number	Grant Date	Expiry Date
E53/273	05 Jun 1991	1 Jun 2001
E53/434	10 Mar 1993	13 Sep 2000
M53/420	23 Aug 1995	30 May 2001

5. REGIONAL GEOLOGY

Figure 3

The Nimary Project is located in the Archaean Jundee greenstone belt. The greenstone belt is approximately 20km wide by 100km long and comprises a typical succession of ultramafic, mafic and felsic volcanic rocks, intrusive differentiated mafic sills, and sedimentary units. The Nimary gold mine is hosted by mafic volcanic rocks and differentiated sills.

Major north northwest trending strike slip faults transect the entire region. The eastern granite-greenstone contact is marked by the Gourdis Fault and the Moiler's Shear Zone marks the western contact. The Nimary gold mine is more than 4km from the nearest large-scale shear zone. Mineralisation is related to small displacement brittle-ductile shear zones within dolerite and basalt host rock. Numerous east west trending faults and south

west-north east Proterozoic dolerite dykes cut the project. The area has also undergone extensive folding with the axes conforming to the regional trend.

6. LOCAL GEOLOGY

6.1 Moilers Find (E53/273)

The tenement lies on a thin strip of greenstone that separates the Lake Violet Greenstone Belt and the Mt. Cleaver complex, known as the Moilers Find Shear Zone. Geological mapping of the eastern portion of tenement area carried out in the previous year (full details in 1994 annual report on Nimary Project, reference listed below) identified as dominant feature of the area a series of almost continuous quartz-mylonite ridges striking north-northwest and dipping about 60 to 70° to the east. Strongly foliated ultramafic rocks separate the mylonite ridges. Some quartz veining and felsic outcrops were also located. A number of small disused workings were encountered that occur mainly on or adjacent to quartz veins, with one group also situated on a bend in orientation of the main mylonitic ridge. The orientation change appeared to have been caused by minor late faulting.

6.2 Lake Ward (E53/434, M53/420)

The Lake Ward tenements are situated within the Lake Ward complex and is comprised predominantly of various foliated granitic rocks. the major structure within the tenements are the D4 East-West strike-slip 'Lindsay Gordon Fault'. The contact between the Lake Ward complex and the greenstones of the Jundee domain occurs to the west of the tenements.

7. PREVIOUS EXPLORATION

The database records surface sampling by WMC and Wiluna mines prior to the current tenements. This information is presented with the current holder data in Appendix 1.

No other information is recorded.

8. EXPLORATION DURING CURRENT TERM

The following table summarises drilling conducted during the term of the tenements.

Tenement	Holes	Type	No of holes	Metres	Year	
E53/273	MRAB1a-23a	RAB	22	1436	1994	No report
	MFRB12,18,24,30,36,41,52,53,6	RAB	9	452	1994	No report
	LVRB476	RAB	1	20	1995	No report
	MSRAB1-33	RAB	33	1351	1995	
E53/434	HSVAC3-4	VAC	2	20	1995	
E53/273	LVRA17-40	AC	34	1183	2000	
	TWRA1-8,10-55,83-86	AC	58	4024	2000	
	TWRB215-231	RAB	17	822	2000	

8.1 E53/273 RAB Drilling 1995

Approximately 1351m of RAB drilling (33 holes) was completed to the east of the Moiler's Shear (hole no.'s MSRAB1-33). Drilling was to blade refusal and aimed to test for further gold anomalism away from the shear.

Sampling was in 4m composites. A total 350 samples were sent to Leonora Laverton Assay Laboratories for gold analysis to a detection limit of 0.02ppm by Aqua Regia digest /AAS. Drill collar and assay information is listed in Appendix 2 and drill hole locations are shown on Figure 4.

Bottom of hole geology is largely strongly foliated mafic, possibly basalt, with well developed mica schist adjacent to the main Moiler's Shear Zone. The drilling did not define any further gold anomalism. Best intercept was in hole MSRAB21 with 36-40m @ 0.54ppm and 40-44m @ 0.02ppm. This hole is in close vicinity to previous year's RAB drilling which had encountered 46m of mineralisation with values of up to 1.86ppm Au.

RAB and AC drilling 2000

17 RAB holes (TWRB215-231) and 92 Aircore (TWRA1-8,10-55,83-86 LVRA17-40) completed. A range of lithologies were intersected which can be summarised as mafics to the west, contacting Moilers BIF and intermediate intrusives to the east with a strongly sheared contact between the two predominant lithologies. Low order anomalism was encountered with 8 of the 41 holes returning intersections greater or equal to 0.1 g/t Au.

Results of RAB and aircore drilling at Quadrio's show weak mineralisation in the same general area as the soil anomaly. Both of the best holes (0.4 g/t max Au) were on line 78240mN, 1500m N of the nugget patch found by Quadrio, with TWRA30 intersecting 37m at 0.2 g/t from 32m to EOH in a quartz veined shear zone. Other holes had anomalies of similar order, but mostly at or above base of complete oxidation. Limited follow could be conducted to locate the source of the widespread weak anomalism, but a large high-grade oxide plume can be ruled out.

E53/434

On Hunter South, 2 vertical vacuum holes for 20m (hole no.'s HSVAC003-4) were drilled. The samples were submitted to Analabs in Perth for gold analysis to 1ppb detection limit and arsenic analysis to 2ppm detection limit, by Fire Assay and XRF respectively.

Vacuum drilling results for both grids were disappointing with no significant assays.

8.2 Surface geochemistry

8.2.1 ^E(M53/273)

A considerable amount of surface sampling has been conducted on this tenement but with little or no documentation. Appendix 1 contains details of all sampling in the database and Figure 7 shows the sample locations. The following information was extracted out of the 1999 C117/1993 Annual Report.

Rock chip sampling of the Moiler's Banded Iron Formation was carried out on E53/273. A total of 25 samples were collected and sent for gold analysis.

Tenement	Sample Numbers	No. of Samples
E53/273	Y84088, 84090-84096, 84099, 84171-84186	25

Results

The best result was 0.053 ppm Au in sample Y84171 on tenement E53/273.

Sampling and Assay Procedure

METHOD OF SAMPLING	Grab sampled
SAMPLE COLLECTION METHOD	2 kg bag, rock chip
ASSAY PREPARATION	Oven dried, Pulverised to nominal -75 microns, 400 - 500 gram split
ASSAY SAMPLE WEIGHT	40 grams
DIGEST	Aqua Regia acid digest (Au)
ELEMENTS ASSAYED	Au
DETECTION LIMIT	0.001 ppm Au
LABORATORY	Analabs (Kalgoorlie, Perth)

8.2.2 M43/420,E53/434

Again no documentation in Annual Reports has been found. The database records some open file LAG sampling from WMC Ltd and Wiluna Mines Ltd. Figure 6 records the location of all LAG samples and Appendix 1 contains sample details.

8.3 Geophysics

Three surveys are recorded over the tenement areas. These are:

- E53/434, M53/420 World Geoscience 1989 200m spacing with magnetics and radiometrics
- M53/420 Tesla 10 1996 for GCM 100m spacing with magnetic and DTM, east west orientation, 50m terrain clearance, DME reg no 60080
- E53/273 Kevron 1996 for GCM 100m line spacing with magnetics, radiometrics and DTM, 060 orientation, 50m terrain clearance, DME reg no 60075

9. REFERENCES

- | | |
|--------------------------|---|
| Howland J.P. 2000 | Annual Report for the Period 1 January 1999 to 31 December 1999 C117/1993 Nimary. Great Central Mines Ltd |
| Davies A, Thorne L, 1996 | Annual Report for the period 1 January 1995 to 31 December 1995 C117/1993 Nimary Eagle Mining Corporation |

BIBLIOGRAPHIC DATA SHEET

REPORT NO: 28873

TITLE: Final Surrender Report On Exploration For Period Ended
30 May 2001 Projects C117-1993 Nimary
E53/273,E53/434,M53/420

TENEMENTS: E53/273, E53/434, M53/420

OWNER/JV PARTNERS Normandy Yandal Operations Ltd

COMMODITIES: Au

AUTHOR: L Daley

DATE: 12/06/01

JOINT REPORT NUMBER: C117/1993

STATE: W.A.

LATITUDE: -26° 08' to -26° 40'

LONGITUDE: 120° 27' to 120° 50'

AMG mN: 7050000-7090000

mE: 250000-275000

1:250,000 SHEET: Wiluna SG51-9

1:100,000 SHEET: Cunyu 2945
Lake Violet 3044
Millrose 3045

MINERAL FIELD: East Murchison

KEYWORDS: aeromagnetics, geological mapping, gridding, surface
sampling, vacuum, AC, RAB drilling

VERIFICATION LISTING FORM

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	E53-273,434,M53-420 S01.doc	Pdf
Other (specify)		
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration Surveys		
Geological Mapping		Pdf
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
Ground Geophysics		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Geochemical Surveying		

Drill sample		
Stream sediment		
Soil	E53-273 S01surfassays	Txt
Rock chip		
Laterite		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
All Drilling Types Undertaken:		
Collar	E53-273 S01drillcollars	.txt
DH_Survey	E53-273 S01surveys	
Geology_Interval		
Geology_Point		
Sample & Assay	E53-273 S01drillassays	.txt
Logs	E53-273 S01 lith	.txt