CRA EXPLORATION PTY. LIMITED

EL7934 McDERMOTTS CREEK
Northern Territory

Partial Relinquishment Report
For Period Ending 2nd December, 1996

Written by: PH Mackenzie

Date: February 1997

Accepted by: SJ Hulton

Copies: N.T. Department of Mines & Energy, Darwin
CRA ET&I Group, Melbourne
CRA Exploration Pty. Limited, Darwin

p Reference: Calvert Hills SE 53-08

sort No.: 22824

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1. SUMMARY

EL 7934 McDermotts Creek is situated within the Wearyan Shelf tectonic domain of the SE McArthur Basin. The 50% statutory reduction of licence area was completed at the end of Year 4. This report details exploration activities in the relinquished portion of the tenement.

During the first year of tenure, reconnaissance density gravel and concurrent stream sediment sampling was completed. Gravel sample results were negative for kimberlitic indicator minerals. Low order geochemical values were returned from stream sediment samples.

During the second year, a detailed airborne magnetic and radiometric survey was completed. Two magnetic anomalies were followed up with ground magnetometry and loam, rock chip and soil sampling. Two loam samples contained single micro diamonds which are considered to be from a distal source.

During the third year of tenure a DIGHEM survey was completed within part of the EL.

No work was undertaken during Year 4 in the relinquished part of the EL.

2. CONCLUSIONS

Exploration results to date have been negative.

3. INTRODUCTION

EL 7934 McDermotts Creek is situated in the SE McArthur Basin, approximately 225 km south-east of Borroloola and adjacent to the N.T. - Queensland border (Plan NTd 6536). The EL was applied for on 8th September 1992 and granted on 3rd December 1992 for a six year period. The licence area was acquired to explore for diamondiferous kimberlitic diatremes and assess the base metal potential of the Tawallah Group rocks.

Topography is dominated by an extensive east-west trending escarpment (max. elevation of 266 m AMSL) in the southern portion of the licence area. Branch Creek, with tributaries Nabunga Creek and Queensland Creek, form an extensive dendritic drainage pattern over most of the EL.

Access to the tenement is via an old vehicle track 10 km south of the Wollogorang Homestead.
At the end of Year 4, the tenement was reduced by 50% to 98km$^2$ (30 blocks). This report details exploration activities in the relinquished portion of the tenement.

4. GEOLOGY

EL 7934 McDermotts Creek is situated within the Wearyan Shelf tectonic domain of the SE McArthur Basin. The tenement covers a sequence of gently northward-dipping sediments and volcanics of the Mesoproterozoic Tawallah Group north of the Palaeoproterozoic Murphy Metamorphic Inlier. The following description of the geological succession within EL 7934 and its surrounds is drawn from Jackson et.al (1987) and Ahmad and Wygralak (1989). The stratigraphic succession is summarised in Table 1.

The Seigal Volcanics is the oldest exposed formation of the Tawallah Group, outcropping to the south of EL 7934. It consists of basic lavas with interbeds of sandstone and siltstone.

The Seigal Volcanics is conformably overlain by the McDermott Formation which comprises a succession of shallow-water marine sediments, including arenite, dolostone, siltstone and chert.

The McDermott Formation is conformably overlain by the Sly Creek Sandstone which forms a prominent escarpment in the southern and eastern parts of the EL. It consists of fine- to medium-grained, laminated quartz sandstone.

The overlying Aquarium Formation consists of glauconitic sandstone, shale and dolomite. The Aquarium Formation is considered transitional between the marine Sly Creek Sandstone below and the continental Settlement Creek Volcanics above. It is characterised by abundant glauconite, with dolomite and halite at the top of the sequence.

Minor siltstone and sandstone of the Mullaman Beds (Early Cretaceous) overlie Tawallah Group sediments southwest of the tenement. Soils, alluvium and lateritic deposits of Tertiary and Quaternary age mask underlying Proterozoic lithologies in the central portion of the EL along major drainages.

The Tawallah Group has a regional dip of about 10° to the northwest with localised steepening due to folding and faulting. The Calvert Fault is a major northwest-trending wrench fault occurring approximately 15 km southwest of the EL.
Table 1: Stratigraphy of EL 7934 and surrounds

<table>
<thead>
<tr>
<th>Cretaceous</th>
<th>Mullaman Beds</th>
<th>Siltstone, sandstone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-Proterozoic</td>
<td>Aquarium Formation</td>
<td>Glaucnitic sandstone, shale and dolomite</td>
</tr>
<tr>
<td></td>
<td>Sly Creek Sandstone</td>
<td>Quartz sandstone.</td>
</tr>
<tr>
<td></td>
<td>McDermotts Formation</td>
<td>Arenite, dolostone, siltstone and chert</td>
</tr>
<tr>
<td></td>
<td>Seigal Volcanics</td>
<td>Basic lavas; sandstone and siltstone interbeds</td>
</tr>
</tbody>
</table>

5. YEAR 1 EXPLORATION ACTIVITIES

5.1 Reconnaissance Gravel Sampling

Helicopter-supported stream gravel sampling was conducted at a reconnaissance density of approximately one sample per 17km². Four -2mm samples were collected from heavy mineral trap sites. All samples were processed at the CRAE laboratory in Perth for kimberlitic indicator (KI) mineral observation. Gravel sample coordinates and results are listed in Table 2. Sample locations are presented on Plan NTd 6537.

The chromites in three of the gravel samples were observed as being from a non kimberlitic source.

Table 2: Gravel Sample Results

<table>
<thead>
<tr>
<th>Sample No.</th>
<th>AMGE</th>
<th>AMGN</th>
<th>Sample Weight (kg)</th>
<th>KI Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>3206813</td>
<td>811100</td>
<td>8083900</td>
<td>22.5</td>
<td>Negative</td>
</tr>
<tr>
<td>3747202</td>
<td>806400</td>
<td>8077500</td>
<td>15.2</td>
<td>4 x chromite non kimberlitic</td>
</tr>
<tr>
<td>3747209</td>
<td>814750</td>
<td>8083400</td>
<td>16</td>
<td>27 x chromite non kimberlitic</td>
</tr>
<tr>
<td>3747210</td>
<td>814800</td>
<td>8083780</td>
<td>16.8</td>
<td>14 x chromite non kimberlitic</td>
</tr>
</tbody>
</table>
5.2 Reconnaissance Stream Sediment Sampling

Stream sediment samples were collected concurrent with the gravel sampling programme. Four -80# fraction samples were collected. Approximately 100 grams of sample were dry sieved in the field and submitted to Amdel Laboratories, Darwin, for assay by the AAS technique for Ag, As, Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb and Zn.

No anomalous geochemical results were recorded.

Sample locations are presented on Plan NTd 6537. Geochemical results are tabled in Appendix 1.

6. YEAR 2 EXPLORATION ACTIVITIES

6.1 Airborne Geophysical Survey

A detailed airborne magnetic and radiometric survey was flown over EL 7934 by Kevron Geophysics Pty. Ltd. during May 1994. Survey parameters are listed below.

Survey Name: McDermotts Creek
Flight Line Direction: 000-180 degrees AMG
Flight Line Spacing: 300 metres
Tie Line Direction: 090-270 degrees AMG
Tie Line Spacing: 2900 metres
Mean Terrain Clearance: 60 metres AGL
Navigation: Ashtech GPS
Aircraft: Rockwell Shrike Commander 500s
Magnetometer: Stinger mounted, Scintrex Caesium
Magnetometer Resolution: 0.001 nT
Magnetometer Sensitivity: 0.001 nT
Sampling Rate: 0.1 seconds
Spectrometer: Geometrics GR-800D
Crystal Volume: 33.6 litres (down), 4.2 litres (up)
Sampling Rate: 1 second
Total Line Kilometres: 3094

Geophysical data processing was carried out by Kevron Geophysics in Perth. Stacked residual magnetic profiles, total magnetic intensity contours and flight path plans were produced. Total magnetic intensity contours are included as Plan NTd 6538.
Inspection of the magnetic survey profile data revealed two low amplitude, short wavelength (<1000m) dipolar responses which were selected for further work.

Airborne magnetic anomaly locations are presented on Plan NTd 6537. Anomaly nomenclature is the anomaly number prefixed by a two character abbreviation of the 1:100 000 sheet on which the anomaly falls.

Airborne radiometric data were collected concurrently with the aeromagnetic data. Radiometric data were digitally corrected and imaged.

6.2 Ground Magnetics

Two aeromagnetic anomalies, WO4 and WO5, were recovered with ground magnetometry. Access to the anomalies was gained by helicopter. Total magnetic intensity readings were recorded along magnetic N-S and E-W traverses at ten metre station intervals using Scintrex MP3 magnetometers. Diurnal corrections were not applied.

Stacked profiles of total magnetic intensity readings are presented in Appendix 2. The recovered ground magnetic profiles do not display magnetic dipole characteristics and were therefore not modelled.

6.3 Sampling Programme

Loam and soil sampling were conducted in conjunction with ground magnetic follow-up of two aeromagnetic anomalies, WO4 and WO5.

6.3.1 Loam Sampling

Single bag (approx. 20kg) -2mm loam samples were collected at interpreted magnetic anomaly centres. Samples were collected over areas of extensive outcrop with no indication of mafic intrusives. The samples were submitted to CRAE Laboratory, Perth, for processing and indicator mineral observation.

Loam sample co-ordinates and results are listed in Table 3. Sample locations are presented on Plan NTd 6537.

Table 3: Loam Sample Results (DPO 71169)

<table>
<thead>
<tr>
<th>Anomaly</th>
<th>Sample</th>
<th>AMGE</th>
<th>AMGN</th>
<th>Results</th>
<th>Size (mm)</th>
<th>Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>WO4</td>
<td>3748023</td>
<td>797900</td>
<td>8077060</td>
<td>1 Microdiamond</td>
<td>0.23 x 0.2</td>
<td>-</td>
</tr>
<tr>
<td>WO5</td>
<td>3748024</td>
<td>802405</td>
<td>8075895</td>
<td>1 Chromite 1 Microdiamond</td>
<td>+ 0.25 0.325 x 0.25</td>
<td>Non-kimberlitic</td>
</tr>
</tbody>
</table>
6.3.2 Soil Sampling

Single soil samples were collected at each of the magnetic anomalies. Samples were sent to Amdel Laboratory for geochemical analysis of the following elements: Ag, As, Ba, Bi, Ca, Cd, Co, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Sb, Th, Ti, U, Zn (ICP-MS); Pb (XRF) and Au (Fire Assay). No anomalous geochemical results were recorded.

The soil sample ledger and assay results are included in Appendix 3. Sample locations are presented on Plan NTd 6537.

6.3.3 Rock Chip Sampling

Six rock chip samples were collected at Anomaly WO4 to test ferruginous arenite and ferricrete outcrop. Samples were sent to Amdel Laboratory for geochemical analysis of the following elements: Ag, As, Au, Ba, Bi, Ca, Cd, Co, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Pd, Pt, Th, U, V, and Zn (DPO 71245). No geochemical anomalis was recorded. The sample ledger and assay results are presented in Appendix 4. Sample locations are plotted on Plan NTd 6223.

7. YEAR 3 EXPLORATION ACTIVITIES

7.1 DIGHEM Survey

A detailed airborne electromagnetic survey using the DIGHEM system was flown over central portions of EL 7934 by contractors Geoterrax Pty Ltd on 20th May 1995 (CRAE Survey No. NT92ME). Survey specifications are as follows:

<table>
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<th>Specification</th>
<th>Details</th>
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<tr>
<td>Survey Name</td>
<td>McDermotts</td>
</tr>
<tr>
<td>Survey Area</td>
<td>83 km² (approx.)</td>
</tr>
<tr>
<td>Flight Line Direction</td>
<td>180 - 360 degrees AMG</td>
</tr>
<tr>
<td>Flight Line Spacing</td>
<td>100 metres</td>
</tr>
<tr>
<td>Terrain Clearance Helicopter</td>
<td>60 metres</td>
</tr>
<tr>
<td>Terrain Clearance Magnetometer</td>
<td>40 metres</td>
</tr>
<tr>
<td>Terrain Clearance EM Sensor</td>
<td>30 metres</td>
</tr>
<tr>
<td>Flight Path Recovery</td>
<td>Sercel real-time differential GPS</td>
</tr>
<tr>
<td>Aircraft</td>
<td>Aerospatiale Squirrel Helicopter</td>
</tr>
<tr>
<td>EM System</td>
<td>DIGHEM (multi-coil, five frequencies)</td>
</tr>
<tr>
<td>Recording Interval</td>
<td>0.1 seconds (approx. three metres)</td>
</tr>
<tr>
<td>Magnetometer</td>
<td>Scintrex Caesium split-beam total field</td>
</tr>
<tr>
<td>Magnetic Sensitivity</td>
<td>0.01 nT</td>
</tr>
<tr>
<td>Recording Interval</td>
<td>0.1 seconds</td>
</tr>
<tr>
<td>Line Kilometres</td>
<td>909.2</td>
</tr>
</tbody>
</table>
The survey was undertaken to identify any discrete anomalous conductivity responses that may be associated with non-magnetic kimberlitic diatremes.

The data was processed to produce maps which display the magnetic and conductive properties of the survey area (NTd Plan No's 6539 and 6540 respectively).

The DIGHEM magnetic and conductive data did not reveal anomalies worthy of follow up.

8. YEAR 4 EXPLORATION ACTIVITIES

No work was undertaken within the relinquished portion of the EL during the fourth year of tenure.

9. REHABILITATION

Exploration programmes were of minimal disturbance nature and no rehabilitation was required.

10. REFERENCES

Ahmad, M and Wygralak, AS (1989) 1:250 000 Metallogenic Map Series
    Explanatory Notes and Mineral Deposit
    Data Sheets, Calvert Hills SE 53-08

                        Northern Territory (BMR Bulletin 220)

Palmer, DC (1993) EL 7934 McDermotts Creek, N.T.,
                  First Annual Report for the Year Ending
                  2nd December 1993 (Report No.19415)

Louwrens, DJ (1994) EL 7934 McDermotts Creek, N.T.,
                    Second Annual Report for the Year Ending
                    2nd December 1994 (Report No. 20457)

Louwrens, DJ (1995) EL 7934 McDermotts Creek, N.T.,
                    Third Annual Report for the Year Ending
                    2nd December 1995 (Report No. 21207)
11. KEYWORDS

12. LOCATION
Calvert Hills SE 53-08 1:250 000
Wollogorang 6463 1:100 000

13. LIST OF DPO's
19482, 21382, 71057, 71104, 71169, 71245, 71246

14. LIST OF PLANS

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<td>EL 7934 McDermotts Creek Location Plan (Reduction of Area)</td>
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<td>NTD 6537</td>
<td>EL 7934 McDermotts Creek Sample Location Plan (Relinquished Area)</td>
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<td>EL 7934 McDermotts Creek DIGHEM Survey Residual Magnetic Contours (Relinquished Area)</td>
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<td>EL 7934 McDermotts Creek DIGHEM Survey 6831 Hz Apparent Resistivity (Relinquished Area)</td>
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APPENDIX 1

EL 7934 McDERMOTT CREEK

Stream Sediment Sample Assay Results
CRA EXPLORATION PTY. LIMITED
GEOCHEMICAL SAMPLE LEDGER

Tenement: EL 7934 McDermott Creek
Programme: Reconnaissance Multifraction Stream Sediment Survey
Sample Type: -80# Stream sediment
Collected: D.C. Palmer 1993
Lab: Amdel

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<th>Cd ppm</th>
<th>Co ppm</th>
<th>Cr ppm</th>
<th>Cu ppm</th>
<th>Fe ppm</th>
<th>Mn ppm</th>
<th>Ni ppm</th>
<th>Pb ppm</th>
<th>Zn ppm</th>
<th>As ppm</th>
<th>AMGEAST</th>
<th>AMGNORTH</th>
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<td>0.03</td>
<td>11</td>
<td>64</td>
<td>39</td>
<td>46305</td>
<td>450</td>
<td>29</td>
<td>10</td>
<td>61</td>
<td>10</td>
<td>811100</td>
<td>8083900</td>
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</table>
APPENDIX 2

EL 7934 McDermott's Creek

Ground Magnetic Profiles
APPENDIX 3

EL 7934 McDERMOTT'S CREEK

Soil Sample Ledger And Assay Results
CRA EXPLORATION PTY LIMITED
SOIL ASSAY RESULTS

Programme: Magnetic Anomaly Follow-up
Tenement: McDermott Creek EL7934
Geologist: DC Menzies
Date: July-94

| Anomaly | Sample No.  | AMGE | AMGN | Ag  | As  | Au  | Ba  | Bi  | Ca  | Cd  | Co  | Cu  | Fe  | K   | La  | Mg  | Mn  | Mo  | Na  | Ni  | P   | Pb  | Sh  | Th  | Tl  | U   | Zn  |
|---------|-------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| W04     | 3748039     | 797900 | 8077410 | <0.1 | 2.5 | <0.001 | 75  | 0.2 | 610 | 0.2 | 4   | 17  | 27000 | 1960 | 20  | 610 | 270 | 1.2 | 195 | 9  | 140 | 5  | 0.5 | 5  | 4100 | 1.4 | 20  |
| W04     | 3748040     | 797900 | 8077360 | <0.1 | 4   | <0.001 | 75  | 0.2 | 200 | 0.2 | 4.4 | 19  | 26000 | 2100 | 19  | 480 | 130 | 0.8 | 150 | 9  | 120 | 6  | 1   | 5.6 | 4300 | 1.46 | 25 |
| W04     | 3748041     | 797900 | 8077260 | 0.1  | 4.5 | <0.001 | 85  | 0.2 | 370 | 0.2 | 4   | 20  | 39000 | 1860 | 16  | 440 | 270 | 0.8 | 170 | 6  | 195 | 7  | 1   | 6   | 4600 | 1.46 | 20 |
| W04     | 3748042     | 797900 | 8077160 | <0.1 | 4.5 | <0.001 | 105 | 0.3 | 410 | 0.3 | 2.2 | 14  | 37500 | 1580 | 15  | 300 | 220 | 1.2 | 150 | 5  | 130 | 6  | 1   | 6   | 4750 | 1.7 | 15 |
| W04     | 3748043     | 797900 | 8077060 | <0.1 | 6.5 | <0.001 | 125 | 0.2 | 710 | 0.2 | 5   | 25  | 58000 | 2450 | 25  | 780 | 230 | 1.2 | 180 | 12 | 340 | 9  | 0.5 | 5.8 | 4450 | 2.2 | 25 |
| W04     | 3748044     | 797900 | 8076960 | 0.1  | 7.5 | <0.001 | 75  | 0.2 | 489 | 0.3 | 2   | 20  | 58500 | 1180 | 19  | 500 | 105 | 0.8 | 150 | 4  | 250 | 7  | 0.5 | 5.6 | 4150 | 1.4 | 30 |
| W04     | 3748045     | 797900 | 8076860 | <0.1 | 2.5 | <0.001 | 65  | 0.2 | 220 | 0.2 | 3   | 15  | 21000 | 1820 | 14  | 470 | 170 | 1.2 | 160 | 8  | 115 | 4  | 0.5 | 5.6 | 3650 | 1.46 | 20 |
| W04     | 3748046     | 797900 | 8076760 | 0.1  | 2   | <0.001 | 65  | 0.2 | 270 | 0.2 | 3.4 | 17  | 18000 | 1840 | 15  | 480 | 210 | 0.6 | 180 | 7  | 130 | 6  | 1   | 5.6 | 3500 | 1.5 | 25 |
| W05     | 3748047     | 802405 | 8075893 | <0.1 | 4.5 | <0.001 | 80  | 0.3 | 430 | 0.2 | 5.2 | 20  | 27500 | 2550 | 20  | 600 | 270 | 0.8 | 170 | 9  | 165 | 5  | 1   | 8    | 4300 | 1.74 | 25 |

Unit: ppm
DL: 0.1 ppm
APPENDIX 4

EL 7934 McDermotts Creek

Rock Chip Sample Ledger And Assay Results
**CRA EXPLORATION PTY LIMITED**  
**ROCK CHIP SAMPLE LEDGER**

**Prospect:** WO4 Magnetic Anomaly  
**Tenement:** McDermotts Creek EL7934  
**Sampled by:** AT Bisset, DC Menzies  
**Date:** 16/07/94  
**1:250 000 Sheet:** Calvert Hills SE53-08  
**1:100 000 Sheet:** Wollogorang 6463  
**Laboratory:** Amdel, Darwin  
**DPO:** 71245

<table>
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<tr>
<th>Sample No.</th>
<th>AMGE</th>
<th>AMGN</th>
<th>Type</th>
<th>Lithology</th>
<th>Colour</th>
<th>Texture</th>
<th>Major</th>
<th>Min</th>
<th>Comments</th>
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<td>RK</td>
<td>Czf</td>
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<td>bx</td>
<td>Fe</td>
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<td>Ferricrete</td>
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<td>RK</td>
<td>MPTLa</td>
<td>Y-R</td>
<td>mg</td>
<td>Fe</td>
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<td>Sandstone</td>
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<td>Czf</td>
<td>L-R</td>
<td></td>
<td></td>
<td></td>
<td>Ferricrete</td>
</tr>
</tbody>
</table>
ORIGINAL AREA: 240 blocks
approx. 784 sq km.

- Relinquished area
- Retained area 30 blocks
  approx. 98 sq km

CRA EXPLORATION PTY LIMITED
EL 7934
McDERMOTTS CREEK
LOCATION PLAN
(Reduction of area)

REFERENCE SE 5308 CALVERT HILLS
SCALE 1:250,000 DATE Jan. 1997
AUTHOR PHM REPORT 22824
DRAWN SRJ PLAN No NTd 6536
**Project Details**

**AERIAL SURVEY EQUIPMENT**

- **Aircraft:** Rockwell Aerocoumander 5065 VH-REG
  - Flightline: YW 2531-35 Coward Heavens
  - 0.800 m/s
  - VMS ADC operating in real time
  - 0.1 seconds (approx 75 metres)
  - 2% data reduction
  - 12100 data records
  - Aeromatix GR6000

- **Crystal Line**
  - 11.6% downward, 4.3% upward array
  - 1.0 seconds (approx 75 metres)
  - VMS Colour Video System
  - Singer-Hoefield 1258
  - Antech III GPS Receiver

**AERIAL SURVEY SPECIFICATIONS**

- **Flight Line Direction**
  - 000 - 180 degrees
  - 300 metres

- **Flight Line Separation**
  - 090 - 270 degrees
  - 5000 metres

- **Terrain Clearance**
  - 50 metres (NWC)

- **Survey flown**
  - May 1994

- **Surveyor**
  - Kevron Geophysics

**TOTAL MAGNETIC INTENSITY CONTOURS**

- **Normal Variations removed**
  - IGRF(1995) updated to 1994.41 removed
  - Average survey base station value and average IGRF value of 48000 nT added to datum

- **Grid mesh**
  - 75 x 75 metres

- **Contour Interval**
  - 5.00, 10.00, 15.00, 20.00 nT

**Scale:** 1:100,000

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**TOTAL MAGNETIC INTENSITY CONTOURS**

(Reinlquished Area)

- **Author:** Kevron Geophysics
- **Date:** Jun 1994

**Other Details**

- **Ref:** FE 53 - US Coastal NMR
- **Type:** Plan No.: RT6528