

FINAL REPORT

TO THE NORTHERN TERRITORY DEPARTMENT

OF MINES AND ENERGY

FOR E.L. 2523

29th OCTOBER, 1980 to 28th OCTOBER, 1982

**OPEN FILE**

DME LIBRARY

20 FEB 1996

SCANNED

## TABLE OF CONTENTS

|                                      | <u>Page No.</u> |
|--------------------------------------|-----------------|
| 1. SUMMARY                           | 1               |
| 2. INTRODUCTION                      | 2               |
| 2.1 Description of Area              | 2               |
| 2.2 Location and Access              | 3               |
| 2.3 Physiography and Climate         | 3               |
| 3. PREVIOUS WORK                     | 4               |
| 4. GEOLOGY                           | 5               |
| 4.1 Regional Geology                 | 5               |
| 4.2 Mineralisation                   | 6               |
| 4.3 E.L. Geology                     | 6               |
| 5. EXPLORATION ACTIVITIES            | 8               |
| 5.1 Organisation                     | 8               |
| 5.2 Drilling and Geophysical Logging | 8               |
| 5.3 Orthophoto Mapping Survey        | 8               |
| 5.4 Ground Geophysical Survey        | 9               |
| 6. CONCLUSIONS                       | 11              |
| 7. EXPENDITURE                       | 12              |

## LIST OF APPENDICES

|            |                          |
|------------|--------------------------|
| Appendix 1 | V.L.F. E.M. Survey Data  |
| Appendix 2 | Drill Hole Log           |
| Appendix 3 | Downhole Geophysical Log |

LIST OF MAPS

| <u>Map No.</u> | <u>Title</u>                                               | <u>Scale</u> |
|----------------|------------------------------------------------------------|--------------|
| 1              | Location of E.L. 2523                                      | 1:250,000    |
| 2523/1         | E.L. 2523 - Drill Hole and<br>V.L.F. E.M. Survey Locations | 1:250,000    |
| 2523/2         | E.L. 2523 - V.L.F. E.M. Surveys<br>Profiles                | 1:10,000     |

1. SUMMARY

E.L. 2523, No. 2 Bore, was granted to Agip Australia Pty. Ltd. on 29th October, 1980.

One hole was drilled to a depth of 123.7m on the E.L. but it failed to intersect the prospective Mt. Eclipse Sandstone finishing instead in the Mt. Doreen Formation dolomite.

V.L.F. E.M. surveys carried out in 1981 and 1982 suggest that the Mt. Eclipse Sandstone does not extend into E.L. 2523.

An orthophoto map survey carried out in 1981 included E.L. 2523 in its coverage.

2. INTRODUCTION

2.1 Description of Area

ALL THAT piece or parcel of land in the Northern Territory of Australia containing an area of 20.74 square miles (53.72 sq. km) more or less, the boundary of which is described as follows:-

Commencing at the intersection of latitude 22 degrees 40 minutes with longitude 132 degrees 29 minutes thence proceeding to the intersection of latitude 22 degrees 40 minutes with longitude 132 degrees 35 minutes thence proceeding to the intersection of latitude 22 degrees 41 minutes with longitude 132 degrees 35 minutes thence proceeding to the intersection of latitude 22 degrees 41 minutes with longitude 132 degrees 40 minutes thence proceeding to the intersection of latitude 22 degrees 42 minutes with longitude 132 degrees 40 minutes thence proceeding to the intersection of latitude 22 degrees 42 minutes with longitude 132 degrees 29 minutes thence proceeding to the intersection of latitude 22 degrees 40 minutes with longitude 132 degrees 29 minutes, subject to all applications for mining tenements and excluding therefrom all mining tenements granted or registered and all reserves included within the definition of "reserve" in section 7 of Mining Act.

Refer also to map no. 1, overleaf.

## 2.2 Location and Access

No. 2 Bore E.L. 2523 is located approximately 200 km north west of Alice Springs in the Napperby Pastoral Lease (see Map 1). Access is via the Yuendumu Beef road which joins the Stuart Highway 20 km north of Alice Springs. The Stuart Highway and the first 90 km of the Yuendumu Beef road are the only part of the route which are sealed.

Within the E.L., access is by station tracks. A few drilling pads have been cleared along these tracks.

## 2.3 Physiography and Climate

The landscape is uniformly flat with open grass-land and in places thick scrub.

The climate is semi-arid, continental, with an average annual rainfall of about 300mm. Rainfall is irregularly distributed throughout the year but tends mainly to fall in the period November - March.

Temperatures commonly exceed 40° C during the summer months and frosts can be expected from April - August.

3. PREVIOUS WORK

The area was mapped at 1:250,000 by the B.M.R. during 1968 and 1969. Reconnaissance gravity and seismic surveys were also carried out in the area by the B.M.R. in 1965, 1969 and 1970.

4. GEOLOGY

4.1 Regional Geology

The stratigraphic units within this general region include a Cainozoic sequence, up to 110m thick, underlain by the Upper Devonian-Lower Carboniferous Mt. Eclipse Sandstone, which is unconformably underlain by Proterozoic Mt. Doreen Formation and Vaughan Springs Quartzite.

The Mt. Eclipse Sandstone, however, has not been intersected in any drill hole on E.L. 2523.

Cainozoic

This is divided into the following rock units:

|       |                                                                                                                    |
|-------|--------------------------------------------------------------------------------------------------------------------|
| gr    | Red-brown and limey sandy soils.                                                                                   |
| Tc/Tg | Calcrete and massive gypsum.                                                                                       |
| Tcss  | Calcareous Sandstone gradational to Tc.                                                                            |
| Tgsc  | Plastic Clay, green-grey, sandy, frequently gypsiferous with a trace of charcoal.<br>Usually interbedded with Tch. |
| Tch   | Yellow to olive-grey and light brown coarse feldspathic sand, pebbly.                                              |
| Tbcs  | Olive-grey and light brown to red sandy clay to clayey sand.                                                       |
| Trfs  | Red-brown sand.                                                                                                    |
| Tlss  | Deep red-brown lateritic sandstone. Some laterite lenses (Te).                                                     |
| Tcl   | Grey clay.                                                                                                         |
| Ta    | Yellow limonitic clay.                                                                                             |

Possible Cainozoic

|       |                                  |
|-------|----------------------------------|
| Cs/Cf | Silcrete, with minor ferricrete. |
|-------|----------------------------------|

This nomenclature is well established from previous investigations of the Cainozoic in the Ngalia Basin by Agip.

Proterozoic

Within the E.L., the following formations of probable Adelaidean age are believed to be present:-

- Puq      Mt. Doreen Formation. Black and green shales, greenish turbidite sands, dolomite.
- Puv'     Treuer Member of Vaughan Springs Quartzite. Cherty and siliceous shale, white sandstone, occasionally glauconitic.
- Puv      Quartzite member of the Vaughan Springs Quartzite, brown-grey quartzite.

These units are in turn, underlain by Lower Proterozoic gneisses and granites of the Arunta Complex.

4.2    Mineralisation

The only unit in the Ngalia Basin known to contain significant deposits of uranium is the Mt. Eclipse Sandstone. On E.L. 2523 however, the Mt. Eclipse Sandstone has not been intersected.

The Tertiary calcrete horizon is weakly radioactive in some areas.

4.3    E.L. Geology

Recent re-evaluation of drilling and geophysical data in E.L. 2523 and in adjoining E.L.'s 1199 and 2524 show that an assymetric sub-basinal syncline in which prospective Mt. Eclipse Sandstone has developed probably does not extend eastwards into E.L. 2523. The eastern nose of this syncline is

now considered to be some 2 km to the west of the licence. Drilling in the E.L. shows that the Tertiary sediments are unconformably underlain by the Mt. Doreen Formation. The area is probably transected by a major westerly-striking fault, informally termed the Midway Fault.



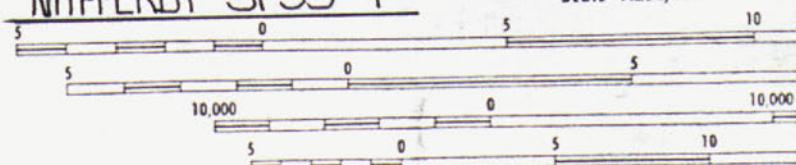
MAP NO. 1

LOCATION OF E.L. 2523



NAPPERBY SF53-9

Scale 1:250,000



- Waterhole; water tank; dam; dry lake
- Lake, river or stream; perennial
- Lake, river or stream; intermittent
- Dam or weir; falls; rapids
- Drain or ditch; perennial; intermittent
- Spring perennial, intermittent; ricefields

ELEVATIONS SHOWN IN FEET  
VERTICAL DATUM IS BASED ON MEAN SEA LEVEL

## 5. EXPLORATION ACTIVITIES

### 5.1 Organisation

During the 1981 and 1982 field seasons Agip maintained a base camp on E.L. 1199 close to Witchetty Bore. Non-potable water was obtained from the camp bore, drinking water was trucked from Mt. Wedge Homestead.

Field work was carried out by up to two geologists and two field assistants. Agip maintains a regional office in Alice Springs and a head office in Darwin.

### 5.2 Drilling and Geophysical Logging

One hole was drilled on this E.L. NT1RD was rotary drilled to 118m and intersected silty, probable Proterozoic, lithology at 108m. The hole was then extended 5.7m by diamond drilling to determine the nature of this unit. A pale purplish-red dolomite was recovered and identified as belonging to the Mt. Doreen Formation. The hole was logged by Geoex Pty. Ltd. for natural gamma and neutron activation. The logging detected minor anomalous radioactivity from 95 to 100m in a Tertiary siltstone (refer to attached drill log).

### 5.3 Orthophoto Mapping Survey

Geo-Spectrum (Australia) were contracted to carry out 1:80,000 scale and 1:5,000 scale black and white aerial photography of tenement areas held by Agip on the Napperby and Mt. Doreen 1:250,000 scale map sheets and from these to produce a series of 1:20,000, 1:1,000 scale orthophoto map sheets showing Australian Map Grid (A.M.G.) co-ordinates

as well as latitude and longitude. Agip field staff set targets on various drill holes and at known geographic locations.

The 1:20,000 scale orthophoto map includes E.L. 2523 as part of the area of coverage.

#### 5.4 Ground Geophysical Survey

V.L.F. E.M. surveys were carried out both in 1981 and in 1982. In 1981, a survey was carried out along a 3km line across the western part of E.L. 2523. The aim was to detect faults and to locate, if possible, the contact between the Proterozoic rocks and the Mt. Eclipse Sandstone. In 1982, two lines, 82-1 and 82-2 comprising a total of 30 stations were surveyed. These lines run sub-parallel to the 1981 line (see map 2523/2). A Scopas S.E. 80 receiver on loan from the Department of Mines and Energy was used. The Scopas (Single Coil Phase, Amplitude and Strike) receiver employs, as source, V.L.F. transmissions in the 15-25 kHz band. Readings were taken at 100m intervals along the line. The results were plotted using the maximum phase and the % of vertical component in the maximum phase.

Of the readings taken at 100m intervals the maximum azimuth readings appear to be the least successful. The strongest and most useful responses were gained from tilt angle and vertical component measurements. Due to the depth of conductive overburden (80 metres) these responses were still, however, relatively weak with tilt angle variations being less than 4°. The double cross-over anomaly in the vicinity of drill hole NT1RD has been interpreted as being due either to a fault structure or a conductor.

NT1RD intersected dolomite and black, pyritic and carbonaceous shales of the Mt. Doreen Formation.

Appendix 1 of this report contains the V.L.F. E.M. data for the three survey lines.

6. CONCLUSIONS

Drilling on E.L. 2523 failed to intersect the Mt. Eclipse Sandstone; the only unit in the Ngalia Basin known to contain significant uranium mineralisation. Re-evaluation of drilling and geophysical data suggests that the Mt. Eclipse Sandstone does not extend eastwards into E.L. 2523.

The V.L.F. E.M. surveys failed to indicate further substantial targets for drill testing.

7. EXPENDITURE

Expenditure incurred on E.L. 2523 from October, 1980 to August, 1982, inclusive, was as follows:

|                      |             |
|----------------------|-------------|
| Labour               | \$ 7,941.45 |
| Purchases            | 853.33      |
| Drilling & Logging   | 5,385.35    |
| Aerial Photography   | 3,007.22    |
| Geological Studies   | 4,519.78    |
| Hire of Equipment    | 143.54      |
| Other Services       | 1,022.45    |
| Miscellaneous        | 3,162.04    |
| Alice Springs Office | 2,909.57    |
|                      | _____       |
|                      | \$28,944.73 |

APPENDIX 1

V.L.F. E.M. SURVEYS DATA

Readings from VLF EM Survey 19th to 22nd October 1981

Base Station:- Alice Springs

Interval:- 100 metres

No. 1 Bore East Road Line

Start at east road traverse southwards.

| <u>Station</u> | <u>Max</u>     | <u>Tilt</u>  | <u>Vertical</u>    |                                  |
|----------------|----------------|--------------|--------------------|----------------------------------|
| <u>No.</u>     | <u>Azimuth</u> | <u>Angle</u> | <u>Component %</u> | <u>Comments</u>                  |
| 1              | 10°            | 0°           | 3                  |                                  |
| 2              | 10°            | 0°           | 3                  |                                  |
| 3              | 10°            | 0°           | 3                  |                                  |
| 4              | 10°            | 2°R          | 3.5                |                                  |
| 5              | 8°             | 0°           | 3.5                | 33 paces to Peg 7 - 20           |
| 6              | 8°             | 0°           | 4.5                |                                  |
| 7              | 10°            | 0°           | 4.5                |                                  |
| 8              | 10°            | 0°           | 3.5                |                                  |
| 9              | 10°            | 0°           | 3.5                | 31' paces south of<br>NT 1 Hole. |
| 10             | 10°            | 1°R          | 3                  |                                  |
| 11             | 10°            | 0°           | 3.5                |                                  |
| 12             | 10°            | 1°R          | 3                  |                                  |
| 13             | 10°            | 0°           | 4                  |                                  |
| 14             | 12°            | 0°           | 3                  |                                  |
| 15             | 10°            | 1°L          | 4                  |                                  |
| 16             | 10°            | 1°L          | 3.5                |                                  |
| 17             | 10°            | 2°L          | 3.5                |                                  |
| 18             | 12°            | 0°           | 3.5                |                                  |
| 19             | 10°            | 2°R          | 2                  |                                  |
| 20             | 8°             | 0°           | 3                  |                                  |
| 21             | 8°             | 2°L          | 3                  |                                  |
| 22             | 8°             | 1°L          | 3.5                |                                  |
| 23             | 8°             | 0°           | 2.5                | 13 paces north of Y171           |
| 24             | 10°            | 0°           | 2                  |                                  |
| 25             | 10°            | 0°           | 2                  |                                  |
| 26             | 10°            | 0°           | 2                  |                                  |
| 27             | 10°            | 0°           | 2.5                |                                  |
| 28             | 8°             | 0°           | 2.5                |                                  |
| 29             | 10°            | 0°           | 2.5                |                                  |
| 30             | 10°            | 0°           | 2                  |                                  |
| 31             | 10°            | 0°           | 2                  |                                  |

END.

LINE 82-2 NO. 2 BORE E.L. 2523

| <u>STATION</u> | <u>TILT °</u> | <u>% GAIN</u> |
|----------------|---------------|---------------|
| 82-2-1         | 0             | 2.5           |
| 82-2-2         | 0             | 2.5           |
| 82-2-3         | 0             | 2             |
| 82-2-4         | 0             | 2             |
| 82-2-5         | 1R            | 2.5           |
| 82-2-6         | 1R            | 2.5           |
| 82-2-7         | 1L            | 2.5           |
| 82-2-8         | 1L            | 2.5           |
| 82-2-9         | 1R            | 2.5           |
| 82-2-10        | 0             | 2.5           |
| 82-2-11        | 0             | 2.5           |
| 82-2-12        | 0             | 2             |
| 82-2-13        | 2R            | 1.5           |
| 82-2-14        | 1R            | 2             |
| 82-2-15        | 0             | 2.5           |

LINE 82-1 NO. 2 BORE E.L. 2523

| <u>STATION</u> | <u>TILT °</u> | <u>% GAIN</u> |
|----------------|---------------|---------------|
| 82-1-1         | 0             | 4.5           |
| 82-1-2         | 0             | 2.5           |
| 82-1-3         | 0             | 3             |
| 82-1-4         | 1L            | 4             |
| 82-1-5         | 1R            | 3.5           |
| 82-1-6         | 2R            | 2             |
| 82-1-7         | 0             | 2             |
| 82-1-8         | 0             | 2             |
| 82-1-9         | 2L            | 2             |
| 82-1-10        | 1L            | 3             |
| 82-1-11        | 0             | 2.5           |
| 82-1-12        | 0             | 2.5           |
| 82-1-13        | 1R            | 2             |
| 82-1-14        | 0             | 2             |
| 82-1-15        | 0             | 4             |

APPENDIX 2  
DRILL HOLE LOGS

**RGIP**  
**AUSTRALIA PTY. LTD.**

BOREHOLE No. NT1R TYPE Rotary Mud Page: 1/6

Region Nº 2 BOBE-EL2523 Commenced 31.5.81 Machine Schramm  
 Project Ngalia Basin Completed 1.6.81 Driller T. Cooper  
 Co-ord 13800N 60600E Total Depth 118 m Probed by Geoex  
 Azimuth N/A Logged by T.P. Operator J. Waller  
 Inclination 90° Sampled by N.B. Probed depth 115  
 Elevation — Contractor Rockdril Scale 1:100

BOREHOLE No. N.T.1 R TYPE \_\_\_\_\_ Page: 2/6

|                   |                   |                    |
|-------------------|-------------------|--------------------|
| Region _____      | Commenced _____   | Machine _____      |
| Project _____     | Completed _____   | Driller _____      |
| Co-ord _____      | Total Depth _____ | Probed by _____    |
| Azimuth _____     | Logged by _____   | Operator _____     |
| Inclination _____ | Sampled by _____  | Probed depth _____ |
| Elevation _____   | Contractor _____  | Scale _____        |

BOREHOLE No. NT1R TYPE \_\_\_\_\_ Page: 3/6

|                   |                   |                    |
|-------------------|-------------------|--------------------|
| Region _____      | Commenced _____   | Machine _____      |
| Project _____     | Completed _____   | Driller _____      |
| Co-ord _____      | Total Depth _____ | Probed by _____    |
| Azimuth _____     | Logged by _____   | Operator _____     |
| Inclination _____ | Sampled by _____  | Probed depth _____ |
| Elevation _____   | Contractor _____  | Scale _____        |

REMARKS

**RGIP**  
**AUSTRALIA PTY. LTD.**

BOREHOLE No. N71R TYPE \_\_\_\_\_ Page: 4/6

Page: 4/6

|                   |                   |                    |
|-------------------|-------------------|--------------------|
| Region _____      | Commenced _____   | Machine _____      |
| Project _____     | Completed _____   | Driller _____      |
| Co-ord _____      | Total Depth _____ | Probed by _____    |
| Azimuth _____     | Logged by _____   | Operator _____     |
| Inclination _____ | Sampled by _____  | Probed depth _____ |
| Elevation _____   | Contractor _____  | Scale _____        |

**AGIP**  
**AUSTRALIA PTY. LTD.**

BOREHOLE No. NT 1R TYPE \_\_\_\_\_ Page: 5/6

Page: 5/6

|                   |                   |                    |
|-------------------|-------------------|--------------------|
| Region _____      | Commenced _____   | Machine _____      |
| Project _____     | Completed _____   | Driller _____      |
| Co-ord _____      | Total Depth _____ | Probed by _____    |
| Azimuth _____     | Logged by _____   | Operator _____     |
| Inclination _____ | Sampled by _____  | Probed depth _____ |
| Elevation _____   | Contractor _____  | Scale _____        |

**AGIP**  
**AUSTRALIA PTY. LTD.**

BOREHOLE No. NT1R TYPE \_\_\_\_\_ Page: 6/6

Page: 6/6

Region \_\_\_\_\_

**Commenced** \_\_\_\_\_.

**Machine** \_\_\_\_\_

Project \_\_\_\_\_

**Completed** \_\_\_\_\_.

**Driller** \_\_\_\_\_

Co-ord \_\_\_\_\_

Total Depth \_\_\_\_\_

**Probed by** \_\_\_\_\_

## Azimuth

Logged by \_\_\_\_\_

**Operator** \_\_\_\_\_

**Inclination** \_\_\_\_\_

Sampled by \_\_\_\_\_

**Probed depth** \_\_\_\_\_

**Elevation** \_\_\_\_\_

**Contractor** \_\_\_\_\_

**Scale** \_\_\_\_\_

BOREHOLE No. NT1RD TYPE DIAMOND Page: 1 / 1

Region Nagalia Basin  
Project Number Two Bore  
Co-ord 13800N 60600E  
Azimuth NA  
Inclination 90°  
Elevation -

Commenced 17/6/81 Machine Foxmobile 3  
Completed 17/6/81 Driller J. O'Connor  
Total Depth 123.7 m Probed by GEOEX  
Logged by RMG Operator J. Watter  
Sampled by — Probed depth 120m  
Contractor RockDrill Scale 1:100

APPENDIX 3

---

DOWNHOLE GEOPHYSICAL LOG

EL A 2521

EL 1302

EL 1199

EL A 2522

EL A  
3062

EL 2081

EL 1199

NTIRD

EL 1199

EL 2523

EL 2524

Mount Dodge  
Homestead

LEGEND

— EL Boundary

EL A Boundary

NTIRD 1981 DRILL HOLE

VLF EM SURVEY LINE



CR82/317



Agip Australia pty. ltd.

NGALIA BASIN

AGIP TENEMENTS

"NAPPERBY" SHEET

EL 2523 DRILL HOLE and VLF EM. SURVEY

GEOLOGIST MAM

SCALE 1: 250,000

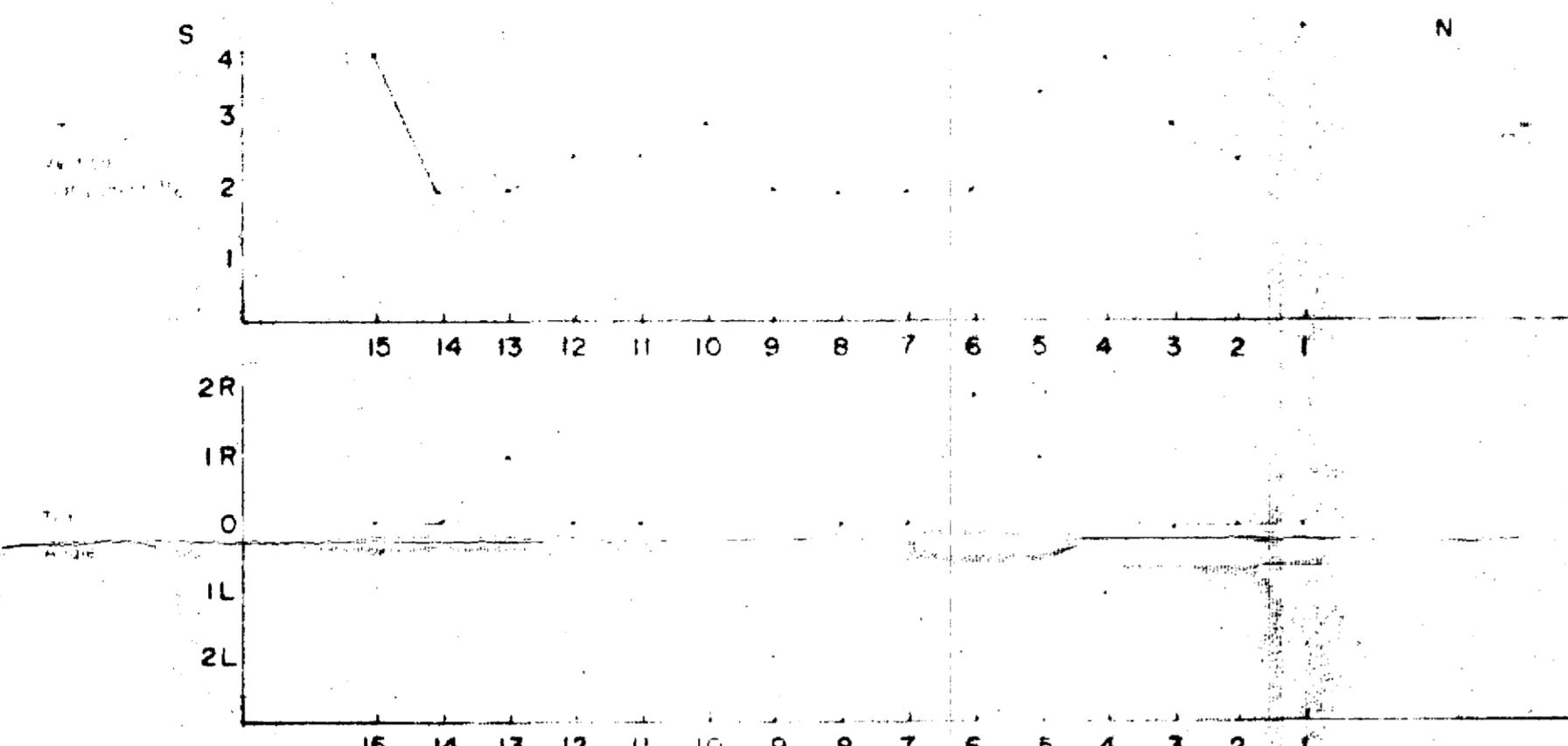
DRAWN BY N.D.C.

DRAWING NO 2523/1

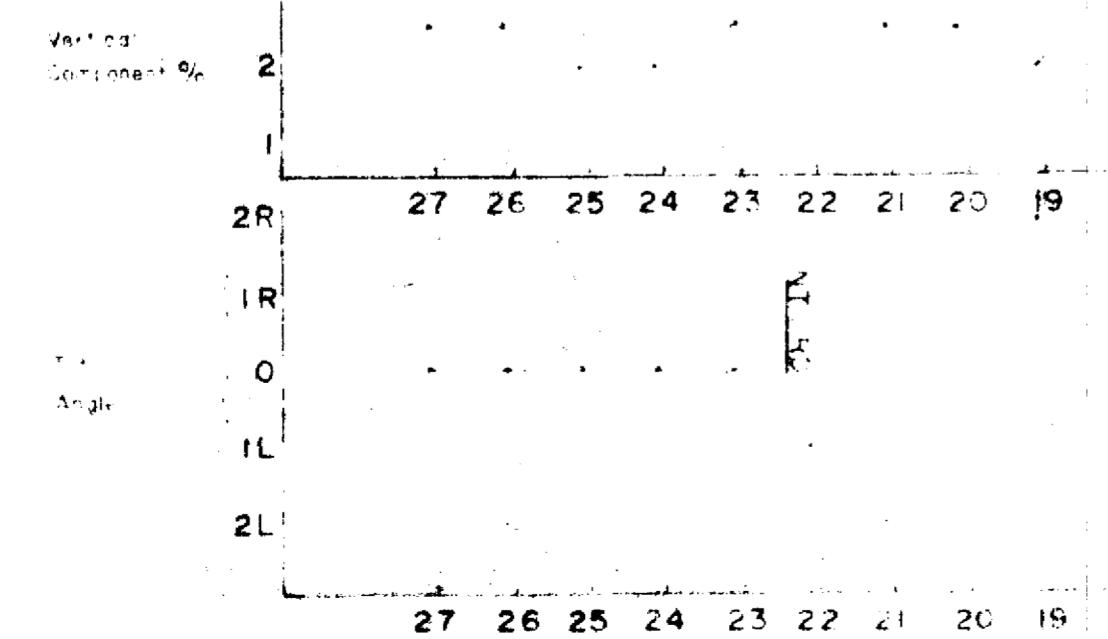
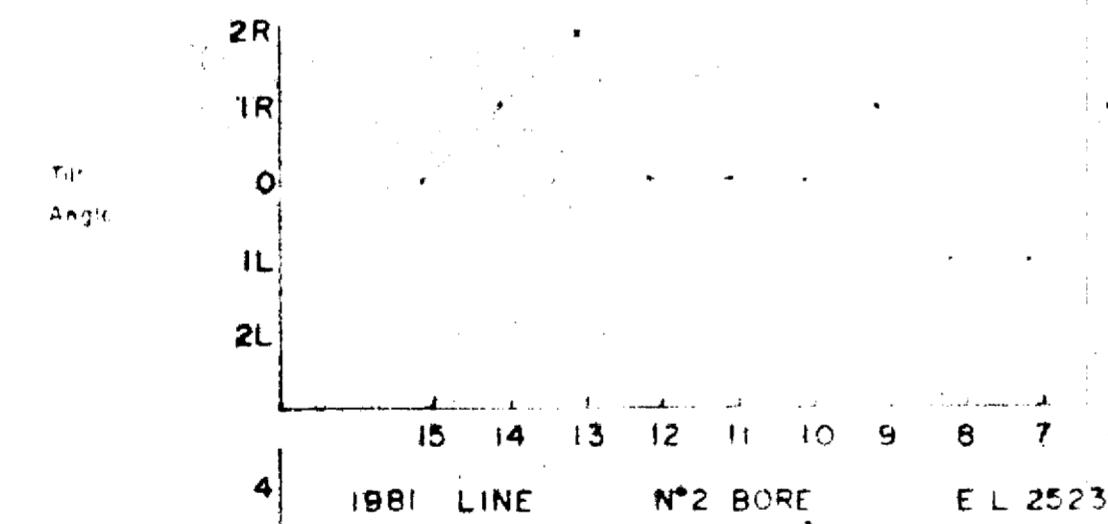
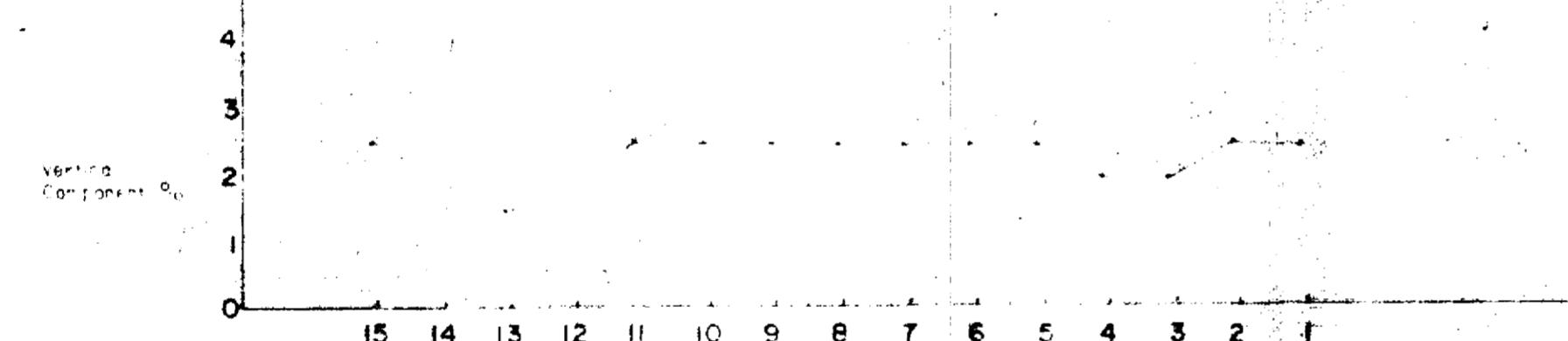
DATE 18

PAGE 1/8

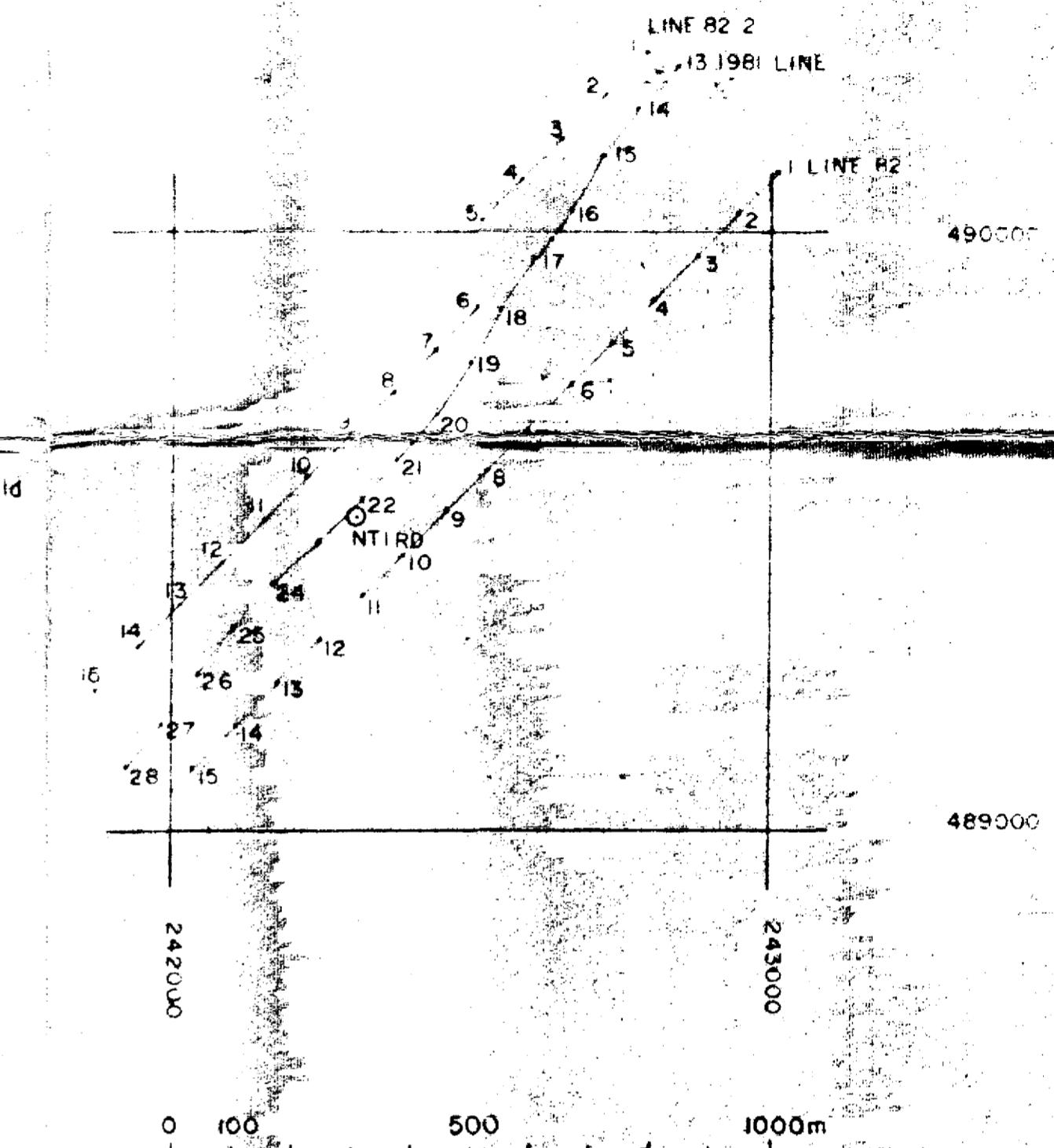
LINE 82-1 N° 2 BORE E.L. 2523 100m STATIONS



LINE 82-2 N° 2 BORE E.L. 2523



N° 2 BORE VLF EM SURVEY LINE AND STATION LOCATIONS



GRID COORDINATES REFER TO ORTHOPHOTOPLAN 480/240

|                                 |                 |
|---------------------------------|-----------------|
| LOCATION MAP                    |                 |
| +22°30'                         |                 |
| E.L. 2523                       |                 |
| N° 2 BORE                       |                 |
| VLF EM PROFILES                 |                 |
| SURVEY LINE & STATION LOCATIONS |                 |
| SEALOGIST D.G.M.                | SCALE 1: 10 000 |
| DRAWN BY S.A.                   | 2523/2          |
| DATE APRIL 82                   |                 |



Agip Australia pty. ltd.

E.L. 2523

N° 2 BORE

VLF EM PROFILES  
SURVEY LINE & STATION LOCATIONS

10 000

2523/2

CR 82 / 317

NT 1 R

## LOGGING DATA

CLIENT: ACIP Aust.

DATE: 17/6/81

| LOCATION          |                                    | GAMMA                              |
|-------------------|------------------------------------|------------------------------------|
| STATE             | NT                                 | LOGGED DEPTH (m) 120~              |
| REGION            | NGALIA BASIN                       | RANGE (cps/cm) 20 cps              |
| PROJECT           | NUMBER TWO BORE OPERATOR J. Weller | TIME CONSTANT (sec) 3              |
| HOLE N°           | NT 1 RD                            | CALIBRATION STANDARD 100 API UNITS |
| HOLE SIZE         | 150 mm to 118 mm BQ to TD          | BACKGROUND COUNTS (cps) 90-110     |
| TOTAL DEPTH (m)   | 120.8~                             | DETECTOR SIZE 4" x 3/4"            |
| CASING DEPTH (m)  | PVC to 118 - NO to 118 - BQ to TD  |                                    |
| SURFACE ELEVATION |                                    |                                    |
| DATUM ELEVATION   |                                    |                                    |
| BOREHOLE MEDIUM   | WATER + MUD                        |                                    |
| FLUID LEVEL       |                                    |                                    |

## INTERPRETATION DATA

|                       |    |                                                |
|-----------------------|----|------------------------------------------------|
| PROBE N°              | L. | NEUTRON                                        |
| PROBE O.D. (mm)       | 43 | LOGGER DEPTH (m)                               |
| LOGGING SPEED (m/min) | 6  | RANGE (cps/cm)                                 |
| PAPER SPEED (m/cm)    |    | TIME CONSTANT (sec)                            |
| REMARKS               |    | CALIBRATION STANDARDS: 1.9%, 19%, 26% POROSITY |
|                       |    | SOURCE Am Be (3000 mCi)                        |
|                       |    | SPACING (cm)                                   |

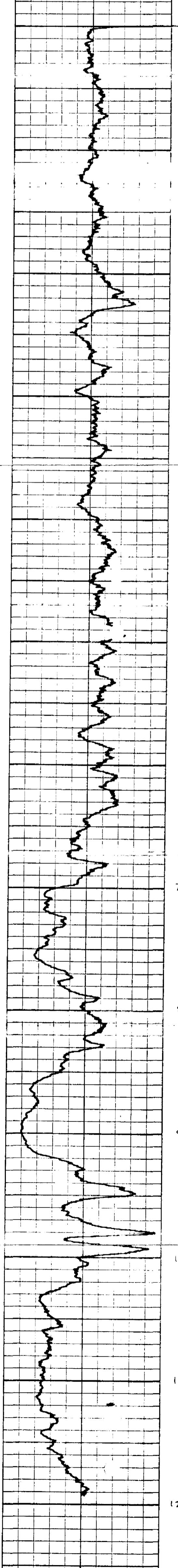
|                                |                  |
|--------------------------------|------------------|
| ELECTRIC                       |                  |
| LOGGED DEPTH (m)               |                  |
| RESISTIVITY SCALE (ohm/cm)     | CAL. STD: 100    |
| S.P. SCALE (mV/cm)             | CAL. STD: 0, 100 |
| PROBE SIZE 6 m                 |                  |
| RESISTIVITY TYPE: SINGLE POINT |                  |

## GAMMA

## DEPTH

## NEUTRON

## S.P. RESISTIVITY



CRAZ/311  
LOGGING DATA

YG43

DATE: 18-6-51

CLIENT: AGIP LTD.

## LOCATION

DATE: NT  
REGION: NGALIA BASIN  
PROJECT: VARAGANTU HOLE DATA  
HOLE NO.: YG 43 TD  
PIPE SIZE: 150 mm I.D.  
TOTAL DEPTH (m): 247.2  
LOGGED DEPTH (m): 246.0  
INTERFACE ELEVATION: 150 m  
TUM ELEVATION:  
BOREHOLE MEDIUM: WATER + MUD  
UID LEVEL:

## INTERPRETATION DATA

BORE NO.: L.N.  
PIPE O.D. (mm): 150  
LOGGING SPEED (m/min): 6  
LOGGED SPEED (m/cm):

## REMARKS

GAMMA  
LOGGED DEPTH (m) 246.  
RANGE (cps/cm) 20-270  
TIME CONSTANT (sec) .3  
CALIBRATION STANDARD 100 API UNITS  
BACKGROUND COUNTS (cps) 180-200  
DETECTOR SIZE 4" x 3/4"

NEUTRON  
LOGGER DEPTH (m) 246.  
RANGE (cps/cm) 25 sec to 145 sec  
TIME CONSTANT (sec)  
CALIBRATION STANDARDS: 9%, 19%, 26% POROSITY  
SOURCE Am Be (3000 mc)  
SPACING (cm):

## ELECTRIC

LOGGED DEPTH (m)  
RESISTIVITY SCALE (ohm/cm) CAL STD: 100 ohm  
S.P. SCALE (mV/cm) CAL STD: 0.100  
PROBE SIZE 5 m  
RESISTIVITY TYPE SINGLE POINT

## GAMMA

## DEPTH

## NEUTRON

## S.P. RESISTIVITY

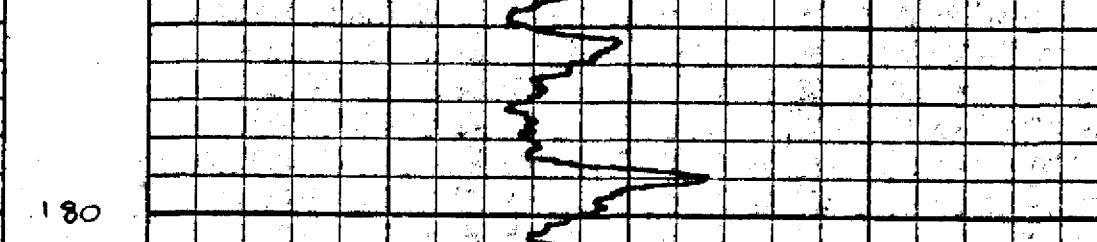
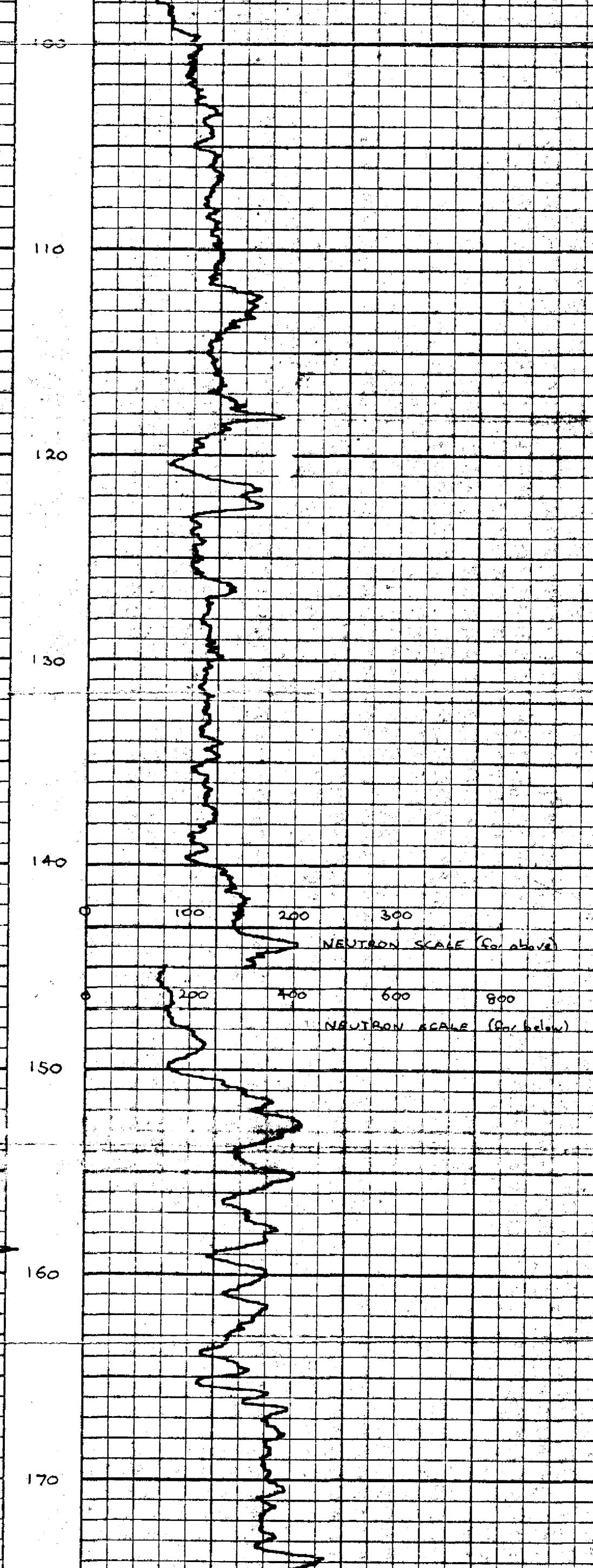
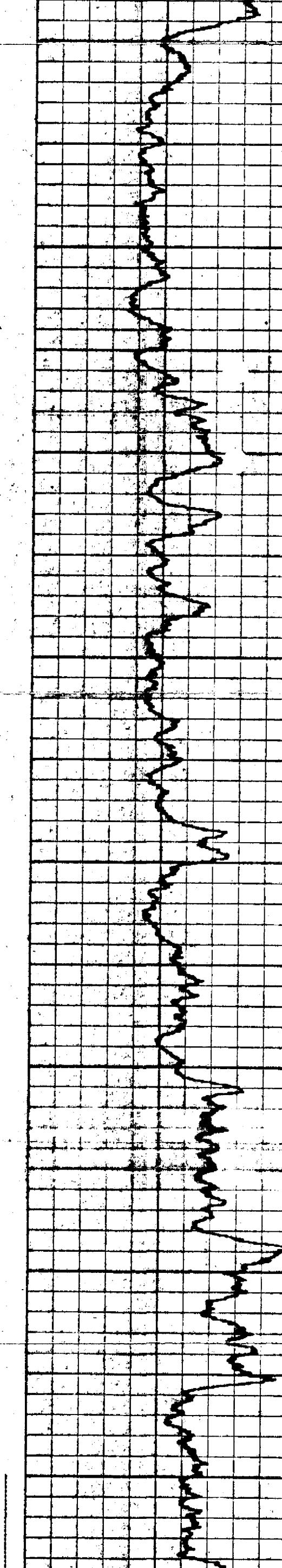
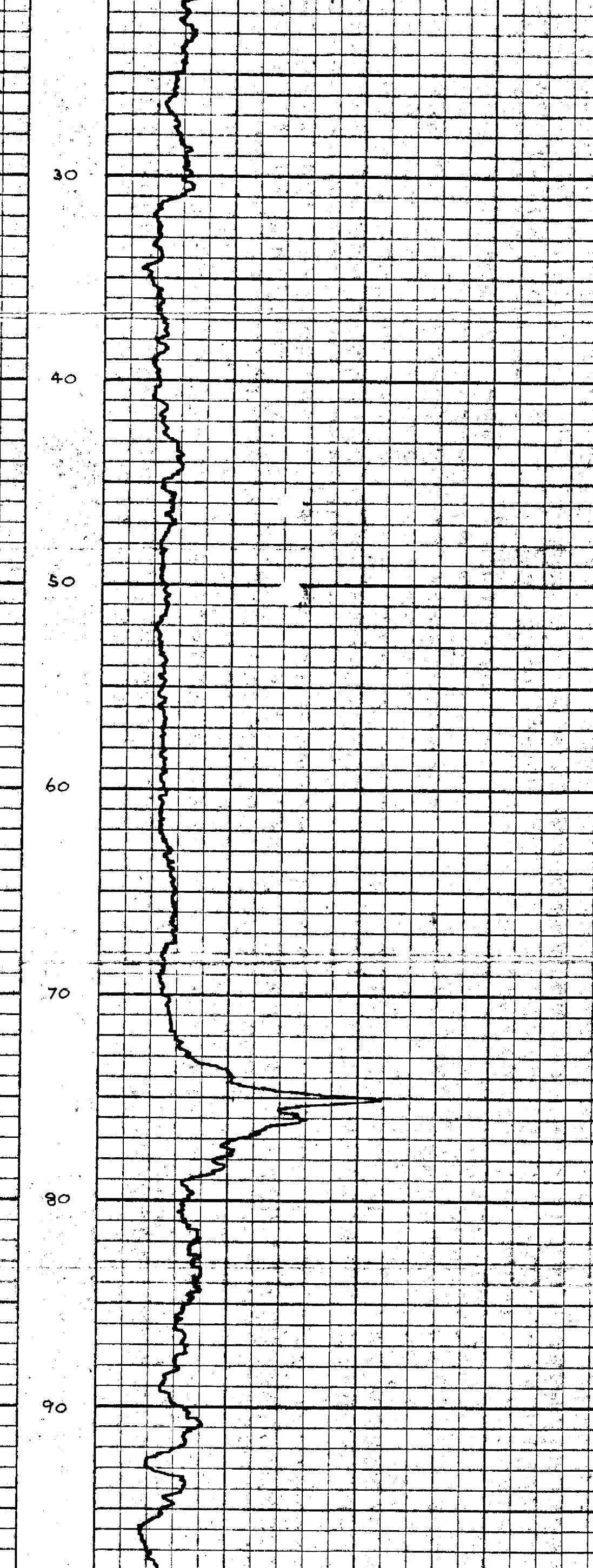
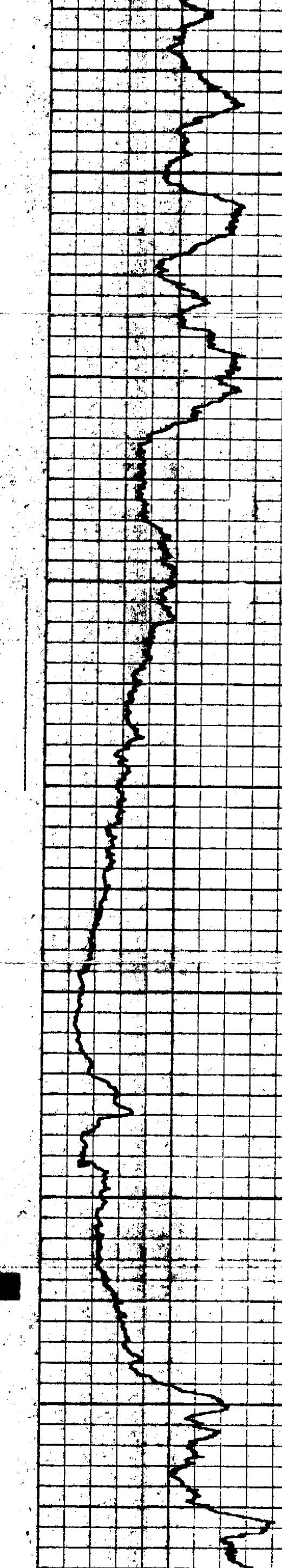


CHART OWNED BY: INDUSTRIES INC., PORT WORTH TEXAS  
CHART NO. 15-1652-11  
API X METRIC