

# Open File Envelope

## No. 4598

**EL 875**

**ERINGA HOMESTEAD**

### **PARTIAL SURRENDER REPORT FOR THE PERIOD 14/9/81 TO 2/3/82**

Submitted by  
CRA Exploration Pty Ltd  
1982

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**PRIMARY INDUSTRIES  
AND RESOURCES SA**

CONTENTS ENVELOPE 4598

TENEMENT: Exploration Licence No. 875

TENEMENT HOLDER: C.R.A. Exploration Pty. Ltd.

REPORT:

Partial Surrender of Eringa E.L. 875 S.A. 2nd March, 1982 (pgs. 3-8)

PLANS:

Eringa E.L. 875 Ilbunga E.L. 889	'P'	Horizon Contours	(4598-1)
"	"	" 'P <sub>2</sub> '	Horizon Contours (4598-2)

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0003

CRA EXPLORATION PTY. LIMITED

PARTIAL SURRENDER OF ERINGA E.L. 875, SOUTH AUSTRALIA,

2ND MARCH, 1982.

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DATE: 2ND MARCH, 1982.

SUBMITTED BY: D.R. McBain

ACCEPTED BY: FOR D.R. McBain

D.R. McBain  
D.R. McBain  
D.R. McBain

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## 1. SUMMARY

0005

The existing data was evaluated to ascertain the areal extent of the Permian sediments. From the seismic data it was apparent that the area under consideration was outside the Permian basin, and therefore had no potential for the target, Permian black coal.

It is recommended that the area under consideration be surrendered.

## 2. CONCLUSIONS

2.1 The area falls outside the Permian sediments of the Pedirka Basin.

2.2 The target in the area was black coal of the Purni Formation. With no Purni Formation present there is no potential for black coal.

## 3. RECOMMENDATIONS

3.1 It is recommended that the area under consideration be surrendered.

## 4. INTRODUCTION

Eringa E.L. 875 was applied for as part of CRA Exploration Pty. Limited's tenements in the Western Pedirka Basin. The target is high quality Permian black coal.

Eringa E.L. 875 was granted to CRA Exploration Pty. Limited on 14th September, for a period of twelve months.

The area recommended for surrender (Plan SAa 1366) is south of latitude  $26^{\circ} 30' S$  and west of longitude  $134^{\circ} 39' E$ .

This report details work carried out within the area recommended for surrender.

## 5. WORK CARRIED OUT

0006

### 5.1. Data Acquisition

Previous mineral, oil well and seismic data was acquired from the S.A.D.M.E. and B.M.R. in Canberra for the E.L. and adjoining areas.

### 5.2 Data Evaluation and Interpretation

The aim of the evaluation and interpretation was to define the extent, thickness and depth of the Purni Formation.

As an initial step, using the available borehole information as control, the existing seismic survey data was evaluated. The evaluation and interpretation was hampered by the rather poor quality of the data. The field design of the Mt. Ross seismic survey does not optimise recovery for the target horizon, the Purni Formation.

From the evaluation of the seismic data it was clear that no Permian was present within the area under consideration. Both the contours to the top of the Crown Point Formation "P" horizon - (Plan SAa 1350) and Purni Formation "P"<sub>2</sub> horizon - (Plan SAa 1349) show the edge of the Permian basin to be to the north and east of the area recommended for surrender.

The target is the black coal of the Purni Formation, however with the Purni Formation not present the area holds no potential.

*D R McBain*

D.R. McBAIN

DRM/lmc

REFERENCES

0007

- Afmeco 1980 Drilling in Tieyon Area, South Australian  
Department of Mines & Energy open file  
env. 3902.
- French Petroleum 1964 Well completion report of Witcherrie No. 1.
- French Petroleum 1966 Emery Seismic survey, South Australian  
Department of Mines & Energy open file  
env. 546 (unpublished).
- French Petroleum 1966 Mt. Crispe No. 1 - Well completion report.
- Vamgas 1970 Mt. Ross Seismic Survey, South Australian  
Department of Mines & Energy open file  
env. 1473 (unpublished).

KEYWORDS

Abminga SG53-10, Pedirka Basin, Permian, Crown Point Formation,  
Purni Formation, coal - black, Geophysics - seismic.

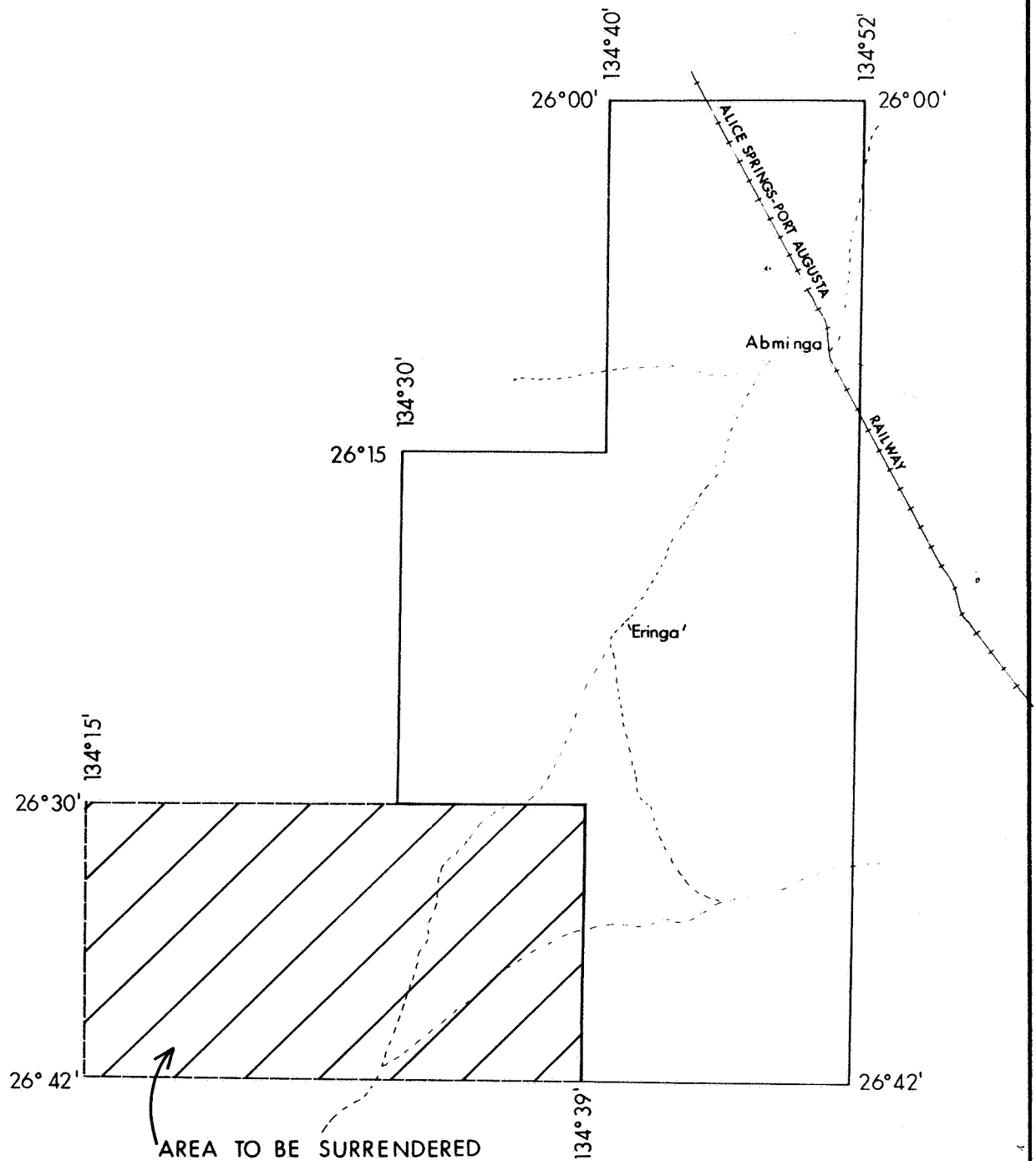
LOCATION

Abminga SG 53-10 1:250,000

LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
SAa 1366	Eringa E.L. 875 - Area to be surrendered	1:500,000
SAa 1350	Pedirka Basin, S.A. - Eringa E.L. 875, Ilbunga E.L. 889 - "P" Horizon Contours	1:250,000
SAa 1349	Pedirka Basin, S.A. - Eringa E.L. 875, Ilbunga E.L. 889 - "P <sub>2</sub> " Horizon Contours	1:250,000

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C. R. A. EXPLORATION PTY. LIMITED

ERINGA E.L. 875  
AREA TO BE SURRENDERED

Ref. ABMINGA SG 53-10

Scale 1:500,000

Drawn J.C.R.

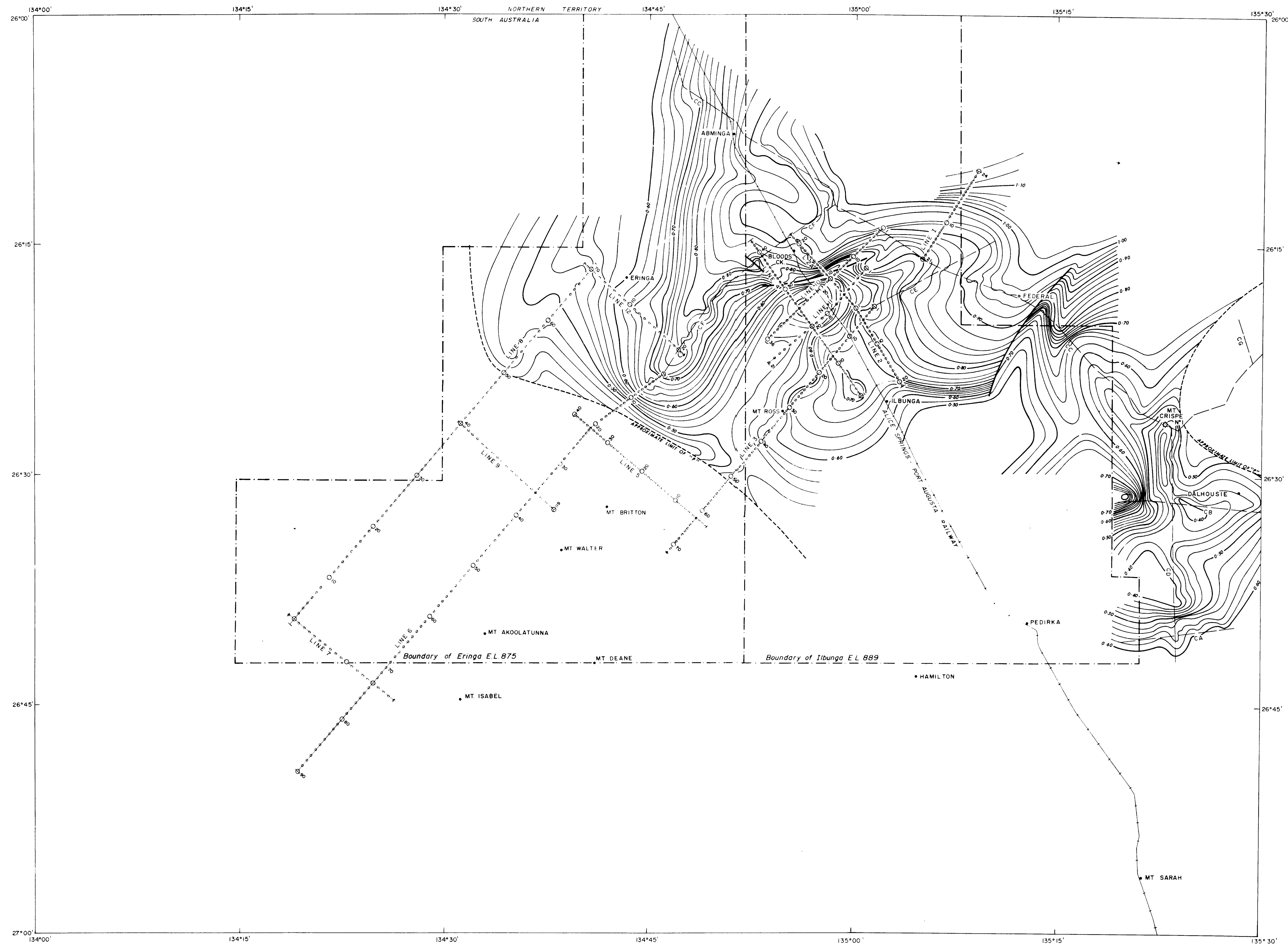
Author D. Mc Bain

Report No. 11012

Date MARCH 1982

Plan No. SAg. 1366





ENV. 4598-1

C.R.A. EXPLORATION PTY. LTD.

PEDIRKA BASIN, S.A.

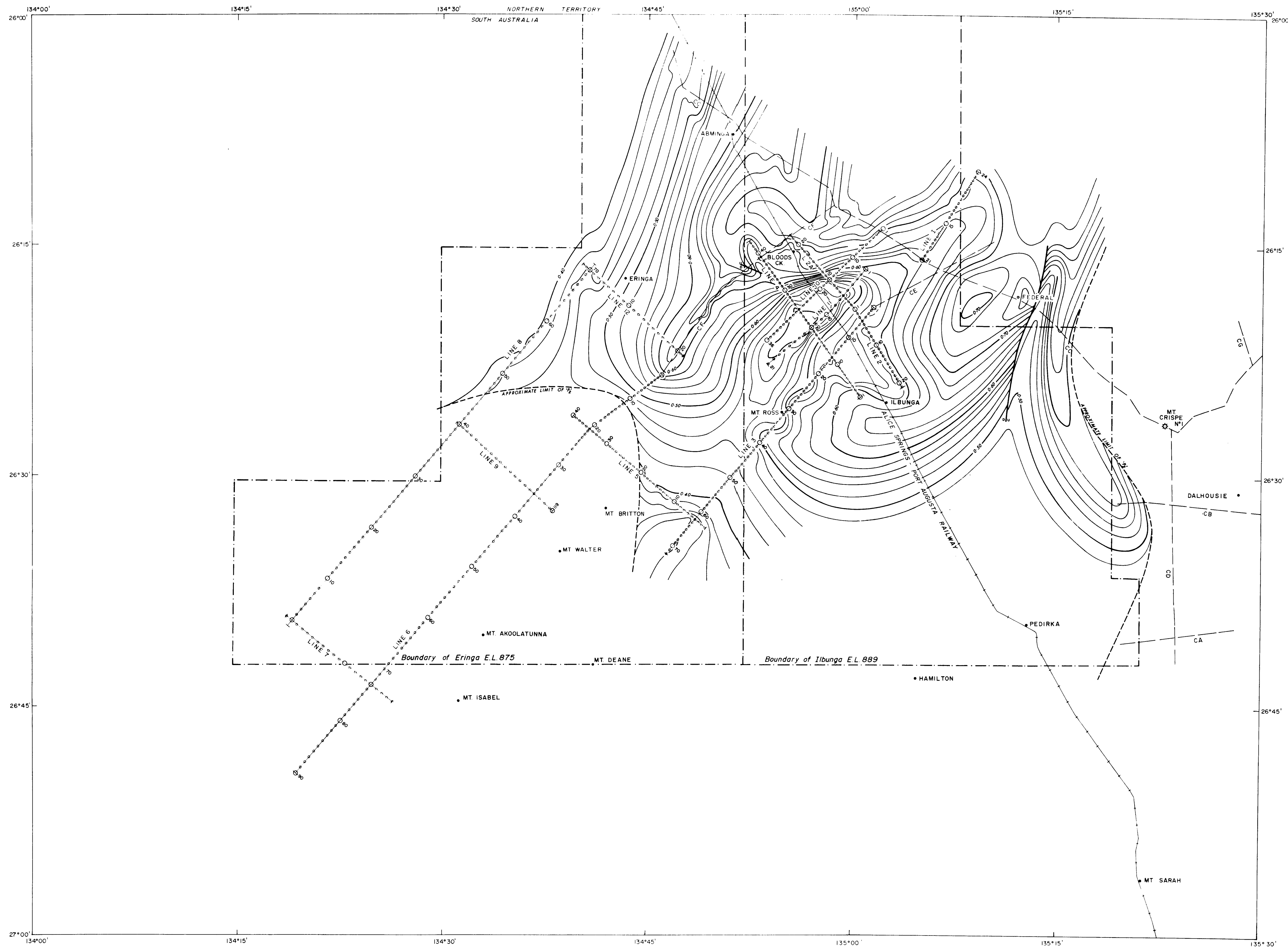
ERINGA E.L.875, ILBUNGA E.L. 889

"P" HORIZON CONTOURS

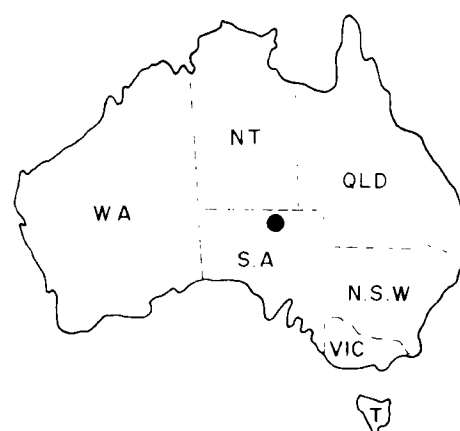
Ref. ABMINGA SG 53-10, DALHOUSIE SG 53-11

Geol.	Date: FEBRUARY 1982	Report No.: 11012
Drawn: S. J. B.	Scale: 1:250,000	Plan No. SA0 1:50

AFTER VAMGAS 1970



LOCALITY PLAN



LEGEND

- Shotpoint Vamgas 1970
- Lines French 1966
- Permanent marker



AFTER VAMGAS 1970

ENV. 4598-2

CRA EXPLORATION PTY. LTD.

PEDIRKA BASIN, S.A.

ERINGA E.L. 875, ILBUNGA E.L. 889

"P<sub>2</sub>" HORIZON CONTOURS

Ref ABMINGA SG 53-10, DALHOUSIE SG 53-11

Geol:	Date: FEBRUARY 1982	Report No.: 10910
Drawn: S.J.B.	Scale: 1:250 000	Plan No. SA 1349