

INTERIM REPORT EL1855
YUNDUCK BORE

AGIP AUSTRALIA PTY. LTD.

G SPARKE
1979

CR79/205

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CONTENTS

Sect.

Letter - re: Rotary Drilling Programme, E.L. 454

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Borehole No.

YB6R (pg.5)

1

YB4R (pg.7)

1

YB7R (pg.6)

1

MAPS

E.L. 1855 Yanduch Bore 1:100,000

1



Agip Australia pty. Ltd.

Block 1600, Fogarty Street, Alice Springs. N.T. 5750. Tel: 524105 Telex: 81174 Enidro.

Stephen

*Ref.
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AS: 90

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DEPT. MINES & ENERGY
ALICE SPRINGS
9th November 1979

5750

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CR 79/205

The Resident Geologist,
Department of Mines and Energy,
P.O. Box 2330,
ALICE SPRINGS N.T. 5750

Dear Sir,

This is an interim report to inform you of the intersection of thin lignitic seams towards the base of the Tertiary sequence, on Yanduch Bore E.L. 1855, in the course of this year's rotary drilling programme.

Central Pacific Minerals N.L., first recorded the presence of lignite in this part of the Ngalia Basin (Henstridge, 1973) in a rotary drilling programme on E.L. 454, Currinya. Two minor lignite horizons were intersected in holes NGRH 42 and 43 with a maximum thickness measured from the geophysical logs of 0.9 m in NGRH 43. These holes were drilled about 2 km south of the southern boundaries of E.L. 1855.

The lignitic seams encountered by drilling on E.L. 1855 this year are probably less than 1 m thick as indicated by the geophysical logs with a relatively high argillaceous and sand content. Copies of lithological logs of the occurrence of the lignitic seams, and a map showing hole locations, are attached.

In all, five samples of lignitic material were submitted to P.R. Evans of the University of N.S.W. for palynological testing, two from hole YB4R at depths of 151 - 153 and 153 - 155 m, two from hole YB6R, at depths of 95 - 97 and 97 - 99 m, and one from YB7R at a depth of 115 - 117 m. He concluded that they are an unspecific Cainozoic age, and that they are largely composed of clayey material to which amorphous humic matter was fixed.

A more complete report will be submitted in the Annual Report for E.L. 1855.

Yours sincerely,

Gerard Sparke

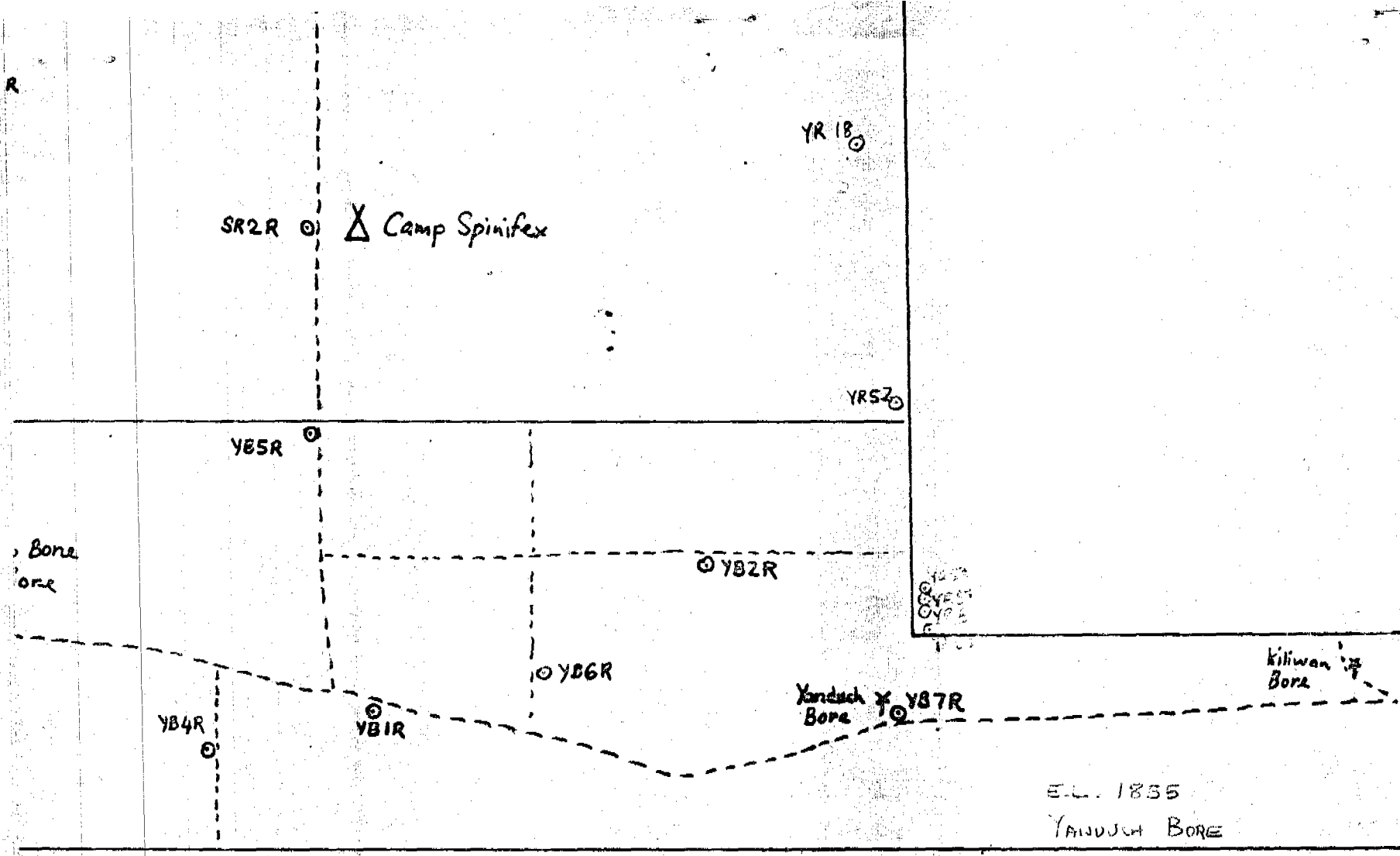
Gerard Sparke
Geologist

JB

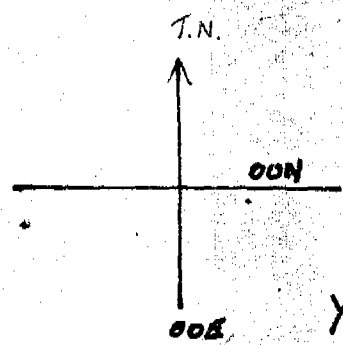
Reference:

Henstridge, D.A., 1973: Rotary Drilling Programme, E.L. 454, Currinya Central Pacific Minerals N.L., Report No. NT-79

R



90,000 E



--- Track
⊙ Drill hole

Scale
1:100,000

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

[illegible]

REMARKS

Casing Scale Depth	Roc	Horn	Graphic Log	Radiom	Sample No.	ASSAYS			Metre	DESCRIPTION
						Upem	Thppm	Vppm		
120										
125										
130										125-134. Sand, medium grained, light olive brown (SY 5/6). Sub-angular, well-sorted.
135										134-161. Interbedded fine grained sandstone clay and some lignitic seams. Colour is a distinctive black to brownish black.
140										134-149. Sand, clayey, with abundant coaly material in matrix.

REMARKS

Casing Scale Depth Log	Run Graph Log	Radiom	Sample No.	ASSAYS			Metres	DESCRIPTION
				Uppm	Thppm	Vppm		
100								
105								103-120 Rib Bone Beds
110								103-120 Sand, fine-medium grained, dusky brown (SM 2/2) to black. Lignite, pyritic. Unconsolidated with some clay-silt lenses, and thin lignitic seams.
115								
120								

REMARKS

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

Casing Scale Depth m	Rock Graphic Log	Radiom	Sample No.	ASSAYS			Metres	DESCRIPTION
				Uppm	Thppm	Vppm		
140								
145								
150								149-161. Clay, silty, with lignitic seams.
155								151-155. Abundant lignitic material.
160								End of hole at 161 m

REMARKS Colours mentioned in log refer to the 'Rock - Color Chart', published by the Geol. Soc. Am.