Open File Envelope No. 1053

PEL 3 Murray Basin

Associated Australian Oilfields N.L. Sunset Seismic Surveys – Progress Reports.

Submitted by Associated Australian Oilfields

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TENEMENT HOLDER: Associated Australian Oilfields

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Bendix

United Geophysical Corporation

A SUBSIDIARY OF THE BENDIX CORPORATION

BRISBANE : MELBOURNE : ADELAIDE : PERTH : ALICE SPRINGS : PORT MORESBY



Exploration Manager, Mines Administration Pty. Ltd., G.P.Q. Bex 880, Brisbane 4001, Qld.

SUNSET SEISMIC SURVEY

Report Fer Period May 1 - May 15, 1969.

GENERIAL: Party 136 moved from Roma, Queensland to Morkulla, South Australia arriving at the campaite May 4th. Drilling started May 7th and Recording May 8th, the delay being due misplacement of urgently needed spare parts for the drills by the airline concerned. The weather has been cold with some rain, but field and camp conditions are generally good.

SURVEYING: Horizontal and vertical control on Lines MDA 1A and RMK 3A has not presented any problem as the area is fairly well surveyed by various governmental and semi-governmental bodies. The location of the proposed Line MDA 4A may have to be altered as the leaseholder is unwilling to have any line clearing done on the property. An alternate track (already cleared) is available for at least a portion of this line but eventually some bulldozing will be required on this property.

DRILLING: On MDA la/RMK 3A the hole logs show on the average 15 feet of sand followed by up to 65 feet of wet sticky clay. This would not present any problems for water drilling, but as it is desired to drill with air, keeping the holes in a dry condition for loading the amionium nitrate mixture, drilling has been slowed. The problem has been partially overcome by giving the drillers options on hole depths and charge sizes; i.e. a difficult hele can be loaded with a reduced charge at a shallower depth.

SHOOTING: Initial charge sizes were 1 detonator, 5 pounds of Geophex and 40 pounds of Nitropril on the "end on" shots and 3 (average) detonators, 15 pounds (average) Geophex and 240 pounds Nitropril on the offset shots. This appeared to be more explosive than was required and the Nitropril content was reduced to 27 pounds and 160 pounds respectively. Red ochre colouring material was added to the fuel oil at the start to provide visual proof of adequate mixing.

RECCEDING: Fairly heavy traffic on the Sturt Highway caused minor recording delays, but up to 3 spreads (7½ miles) have been shot in one day. To the west radio communication between the recorder and shopters broke down, probably due to greater topographical relief and the radio antennas had to be raised.

Record quality has been fair to good and picks can be made by either the

first arrival, first trough or intercept methods in good agreement. The range of amplifier gain settings is slightly inadequate to cover the "end on" shot (spread distances from about 100 feet to 2½ miles) and the near end tends to be overshot. However, the breaks are clear and pickable. Filters are open on the low side and a double cut 78 on the high side (double cut 37 near power lines).

INTERPRETATION: Preliminary plots show basement depth ranging from 1900 feet at the eastern end of Line MDA 1A to 3000 feet near the S.A./Vic. Border. A clear sedimentary section/basement break is present on all spreads to date.

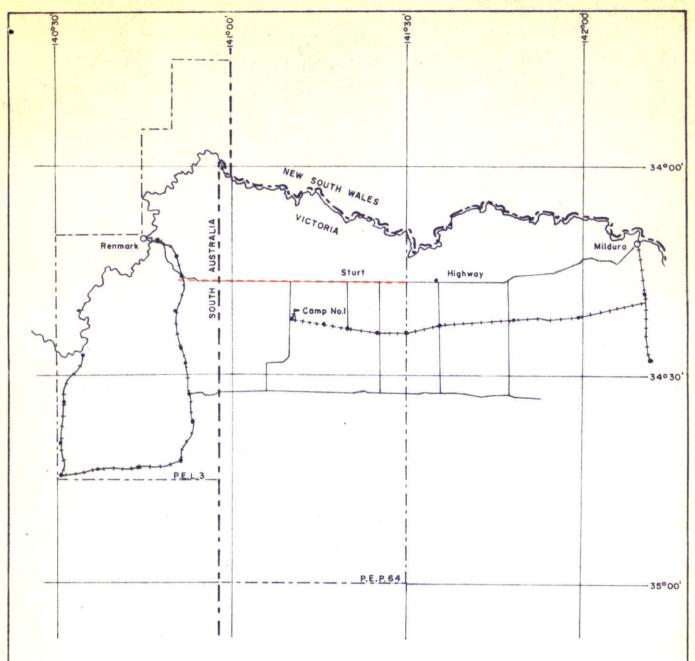
FUTURE PROGRAM: A second east-west refraction line has been started south of the present line.

Respectfully submitted,

H.D. Gray, Party Chief.

cc Minad (4), Brisbane.

enc. Progress Map, Statistical Report.



ASSOCIATED AUSTRALIAN OILFIELDS N.L. PEXA OIL N.L.

Petroleum Exploration Licence No. 3 (Sth. Aust.)
Petroleum Exploration Permit No. 64 (Victoria)

SUNSET SEISMIC SURVEY

PROGRESS MAP

PERIOD: MAY 8, 1969

MAY 15, 1969

by

UNITED GEOPHYSICAL CORP., PARTY 136

Previous shooting this survey: _____
Shot this period: _____
Scale I:1,000,000

0 10 20

Miles

0 10 20 30 40

Kilometres

9= JUN 1369

DEPT. OF MINES

REGISTRY



United Geophysical Corporation

A SUBSIDIARY OF THE BENDIX CORPORATION

BRISBANE : MELBOURNE : ADELAIDE : PERTH : ALICE SPRINGS : PORT MORESBY

P.O. Box 23, Renmark, S.A. May 31, 1969.

Exploration Manager. Mines Administration Pty. Ltd., G.P.O. Box 880. Brisbane 4001, Qld.

SUNSET SEISMIC SURVEY

Report For Period May 16 - May 31, 1969

GENERAL: Operations continued on the refraction phase of the program until Hay Reflection shooting May 31st and the crew departed on break June 1st. The weather could politely be described as typical of Victoria at this time of year, otherwise field and camp conditions O.K.

SURVEYING: Main survey problem has been carrying vertical control from one line to another due to the great distances involved. As of May 31st all lines satisfactorily tied to each other by the crew surveyors.

DRILLING: No change. Two days lost due to rain and impassable roads.

RECORDING: Record quality fair to good - radio problems solved - some cable problems, breakage and leakage; a spare section of cable will be purchased over the break if availables

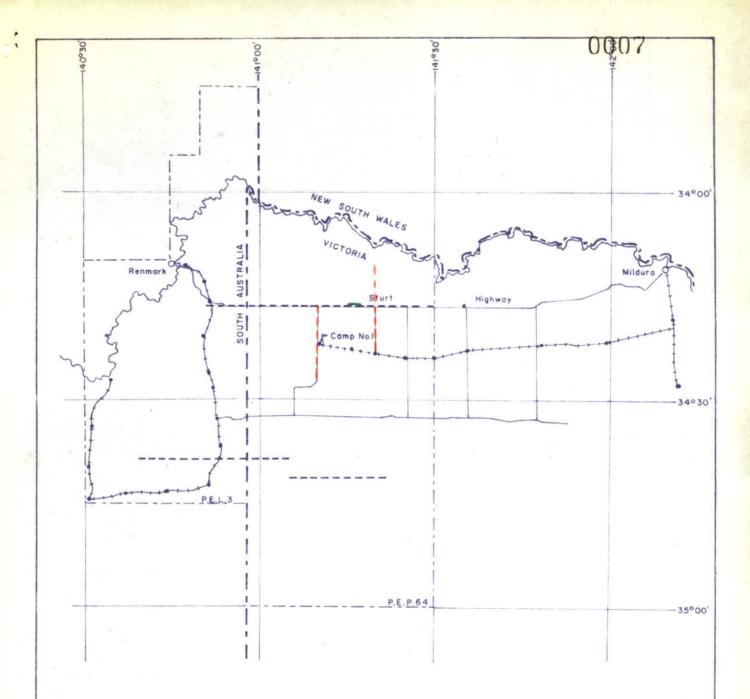
INTERPRETATION: Near surface correction procedures are being applied more or less on an emperical basis as it is not desired at the moment to use field time obtaining the needed velocity information. Such velocity control can be obtained later over the areas of interest, possibly in conjunction with the reflection shooting. However the net effect is that Lines MDA 1A/RMK 3A and Lines RMK 6A/ MDA 4A are probably about 70 feet too deep (as shown on the enclosed Progress Map) in relation to the other lines. This slight variation has not been allowed for in the contouring.

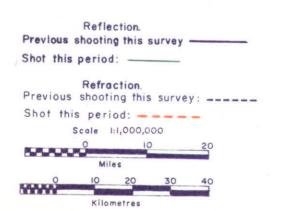
On the basement structure map the relatively large distances between the lines allows for several interpretations. A northeast - southwest strike is indicated by the strong northwest dip and the two high features could parallel this trend. It would appear that the area between the east west lines in the vicinity of the Victorian/South Australian Border merits further attention and at least one additional line has been programmed for this area.

FUTURE PROGRAM: A third drill is being added to speed production. A refraction line has been shot north of Meringur and, as mentioned above a refraction line is programmed in the border area.

Respectfully submitted.

H.D. Gray. cc Minad (4), Party Chief. Brisbane.





ASSOCIATED AUSTRALIAN OILFIELDS N.L. PEXA OIL N.L.

Petroleum Exploration Licence No.3 (Sth. Aust.) Petroleum Exploration Permit No.64 (Victoria)

SUNSET SEISMIC SURVEY

PROGRESS MAP

PERIOD: 24. May 1969

31. May 1969

UNITED GEOPHYSICAL CORP., PARTY 136



UNITED GEOPHYSICAL

CORPORATION

BRISBANE : SYDNEY : ADELAIDE : PERTH : PORT MORESBY

Party 136, P.O. Box 23, Renmark 5341, S.A., June 30, 1969.



0008

Exploration Manager, Mines Administration Pty. Ltd., G.P.O. Box 880, Brisbane 4001, Qld.

SUNSET BEISMIC SURVEY

Report For Period June 16 - June 30, 1969.

GENERAL: Operations resumed June 18th after crew break. Weather semewhat better, still cold but less wind and virtually no rain. Surface coverage this period was 62 miles of refraction and 42 miles of reflection shooting.

SURVEYING: The survey crews statted two days before the recording crew but are steadily losing ground, and will probably be 2 or 3 days behind the recording crew by the time the refraction phase of the program is completed. They should catch up rapidly once the crew starts shooting reflection. All loops to date are satisfactorily tied.

BULLDOZING: An HD-11 Allis Chalmers was hired from a local farmer to clear Line HDA 4C. About 13 miles, ranging from very light scrub to heavy timber (non-commercial) were dozed. Prior approval had been obtained from the Forestry Department, the Soils Conservation Department and the Lands Department. Mr. Hoffman was advised that clearing was about to start but as yet has not been heard from.

DRILLING: The 3rd drill started June 30th.

RECORDING: About 1 days lost due to malfunctioning of the tape transport. A spare cable was made up over the break to replace the section giving trouble. Data quality fair to excellent.

INTERPRETATION: The near surface correction procedure used on the later lines appears to be adequate and the basement values for the first two lines (MDA lA /RMK 3A and RMK 6A/MDA 4A) have been altered to conform with the other lines. The maps presented incorporate this change.

At least two prominent structural hight have been outlined, both at approximately the depth at which a pinch-out of the Basal Cretaceous Sand could be expected. The area to the southeast has been shown as too shallow to be of interest, while several areas to the north and west are attractive by virtue of the basement depth. These require further control (shooting now in progress) to prove structure, if any present.

The short reflection line (SP's. 458 to 586 on Line MDA lA) has two significant features. The overlying section pinches out on basement to the west at about SP. 462. In addition the post basement sediments show fairly strong west dip. In particular this west dip is present between SP's. 472 and 460

where basement dip is to the east.

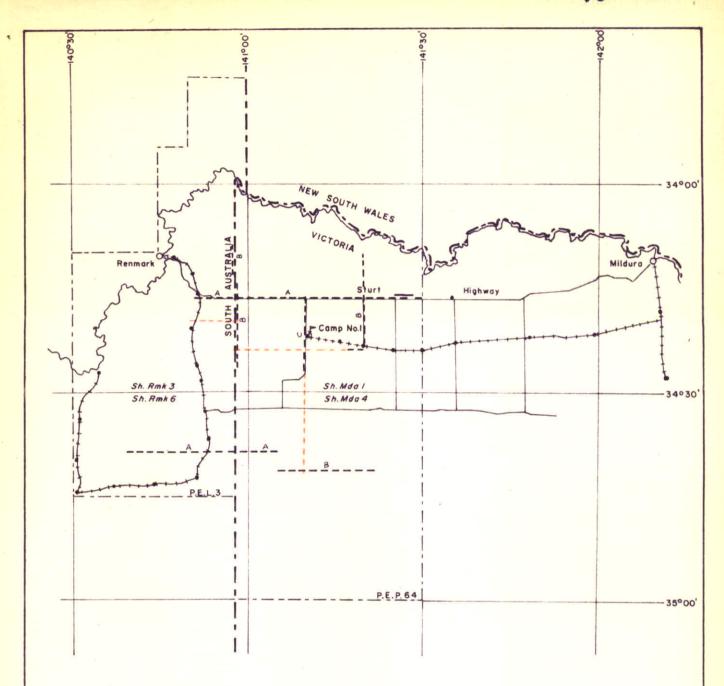
RUTURE PROGRAM: Two east-west lines have been shot which give almost continuous coverage from Meringur to the vicinity of Berri. A further east-west line is being shot in the north, just south of the River. A further refraction line is planned extending east from Loxton. Detailed reflection shooting will then be conducted over the areas of interest delineated by these and other refraction lines.

Respectfully submitted,

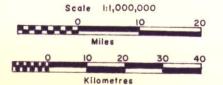
H.D. Graye Party Chief. 2

HDQ/dg

cc Minad (4). Brisbane, File.



Refraction.
Previous shooting this survey: _____
Shot this period: _____



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Petroleum Exploration Licence No.3 (Sth. Aust.)
Petroleum Exploration Permit No.64 (Victoria)

SUNSET SEISMIC SURVEY

PROGRESS MAP

PERIOD: 24 June 1969

to 30 June 1969

by

UNITED GEOPHYSICAL CORP., PARTY 136



UNITED GEOPHYSICAL

CORPORATION

Party 136, P.O. Box 23, Renmark, SoAa 5341 July 21, 1969.

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Exploration Manager, Mines Administration Pty. Ltd., Box 880, G.P.O., Brisbane 4001.

SUNSET SEISMIC SURVEY

Report For Period July 1 - July 16, 1969.

GENERAL: Weather and other field conditions generally good, but wind and rain storms causing sudden program changes. No actual lost time but efficiency impaired somewhat; overall production, however, maintained at a high level.

SURVEYING: Surveyors "holding their own". All loops to date have good tiese

BULLDOZING: No dozing required this period. SP. 234 on line RMK. 3F was apparently drilled into some sort of cavity. When fired in the normal manner the area around the hole collapsed leaving a cylindrical hole with vertical walls about 10 feet across and 15 feet deep. There appeared to be a horizontal passage extending to the east from the bottom of the hole. Arrangements were made with the Loxton District Council to fill the hole and this has been completed as of to-day.

DRILLING: Fine white sand (common to the general area at various depths) was encountered on the reflection line RMK. 6A, in some cases shallower than 20 feet, Unable to drill single holes to the required depth and in some eases had to substitute pattern holeso

RECORDING: Refraction data fair to good; power lines, wind and rain giving trouble at times, but this can be oversome by a properly filtered playback. Reflection data poor on Line RMK, 6A on the pattern holes.

INTERPRETATION: This report has been delayed slightly to include all refraction work prior to the 15th and a Basement Contour Map is attached.

Most of the permit(s) area(s) has now been covered by the reconnaissance refraction lines. A sub-basin or sub-trough has been delineated southeast of the Renmark Trough. Within this sub-trough the basement surface is irregular and numerous closed anticlines have been outlined. Reflection shooting to locate the pinch-outs of the Basal Cretaceous Sand is now in progress. Pinch-out has been proven on Lines RMK. 6A and MDA 1A.

FUTURE PROGRAM: Additional refraction and reflection lines have been programmed over areas of interest. It is expected that field operations will cease about July 28th.

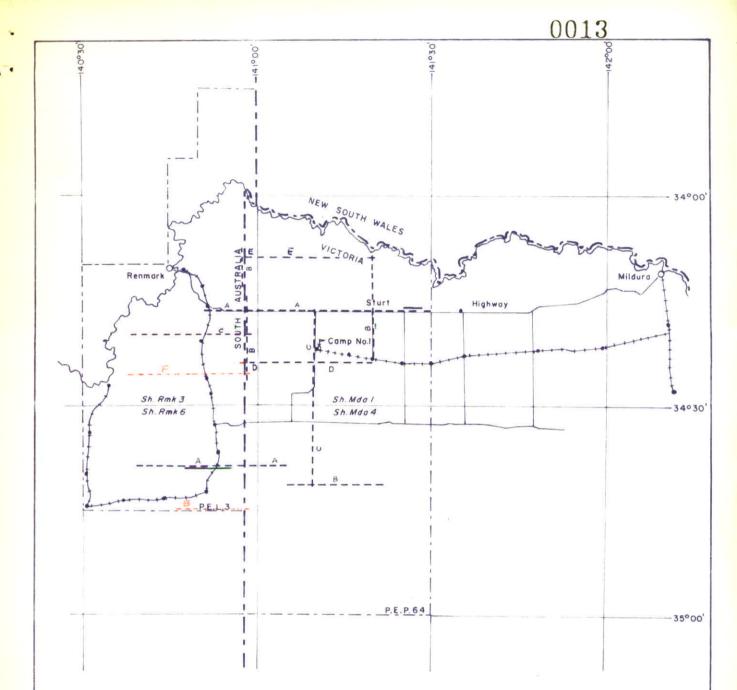
Respectfully submitted,

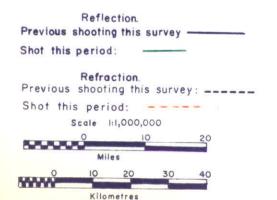
H.D. Gray, Party Chief.

HDG/dg

cc Minad (4)_p

enc. Statistical Report,
Basement Contour Map.





ASSOCIATED AUSTRALIAN OILFIELDS N.L. PEXA OIL N.L.

Petroleum Exploration Licence No.3 (Sth. Aust.)
Petroleum Exploration Permit No.64 (Victoria)

SUNSET SEISMIC SURVEY PROGRESS MAP

PERIOD: 8 JULY 1969

to 15 July 1969

UNITED GEOPHYSICAL CORP., PARTY 136

ENV-105



United Geophysical Corporation

A SUBSIDIARY OF THE BENDIX CORPORATION

0014BRISBANE : MELBOURNE : ADELAIDE : PERTH : ALICE SPRINGS : PORT MORESBY

> Party 136. 210 Henley Beach Road. Torrensville, S.A., 5031, August 3, 1969.

> > E8 AUG 1969

DEPT. OF MINIST

Sunset Seismic Survey

Exploration Manager. Mines Administration Pty. Ltd., G.P.O. Box 880. Brisbane, 4001, Old.

Report For Period July 16 - July 31

GENERAL: Field work finished on July 28th.

BULLDOZING: The north extension of refraction Line MDA 1C and the reflection Line MDA 1H had to be cleared.

DRILLING: The fine white sand was again encountered at relatively shallow depths while drilling Refraction Line RMK 6C. This sand presents a very definite drilling problem. If future exploration is planned for this area (approximately Renmark 6 Map) it should be noted that shot holes can be drilled to depth only with great difficulty and expense.

RECORDING: Refraction data good except Line RMK 6C; here a combination of wind, rain, power lines, heavier than normal traffic and a charge that appeared to only partially detonate resulted in some sub-standard data. Reflection quality was "spotty" changing from very good to poor in adjacent areas without apparent reason.

INTERPRETATION: Data from the final 3 refraction lines has been added to the enclosed Basement Contour Map. The most noticeable change is the extention to the southeast of the high zone in MDA 1 just east of the S.A./Vietoria border.

As mentioned above the reflection data was not as good as had been hoped for and preliminary picking of the wiggle trace seconds has been rather inconclusive as far as delineating the pinchouts. However it is felt that a more detailed study of the playback sections, when returned, will yield the required informations

CONCLUSION: Surface coverage for the survey was 318 miles, about 20% more than had been estimated. The aims of the survey would appear to have been achieved, with the possible exception referred to in the previous sections

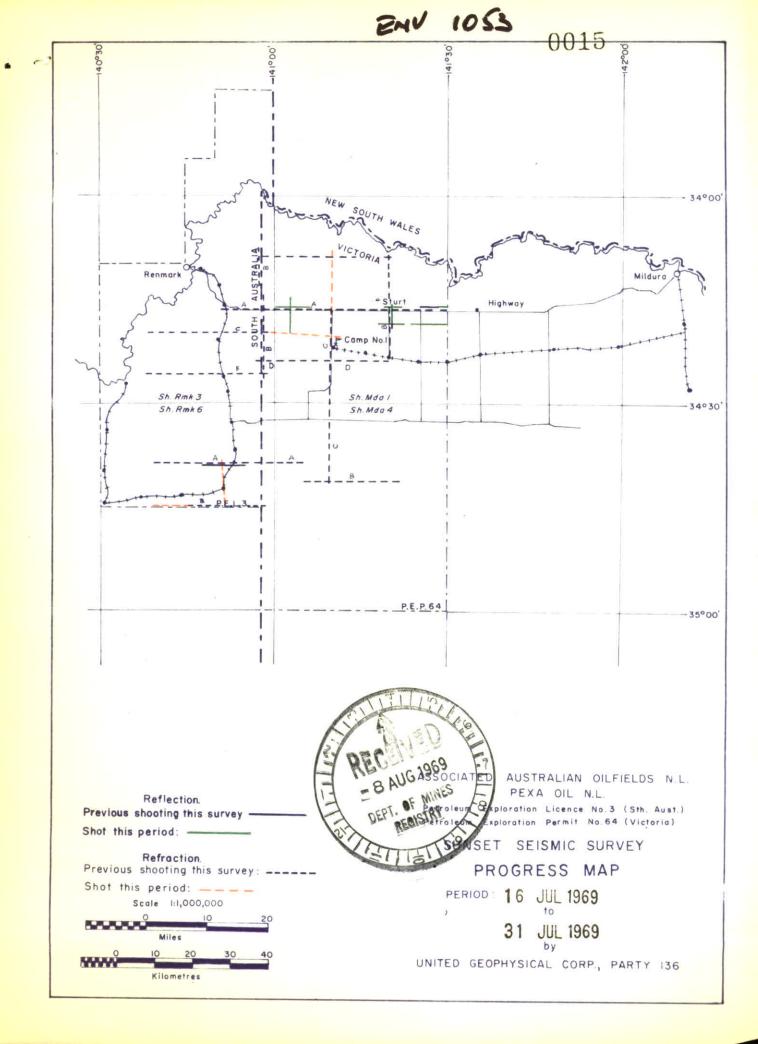
The writer would like to thank the staff of Mines Administration, and in particular Mr. Les Denham for his valuable contributions such as advance planning. guidance and prior knowledge of the areas

HDG/dg

ce Minad (4). Brisbane.

Best regards.

H.D. Gray. Supervisor.



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