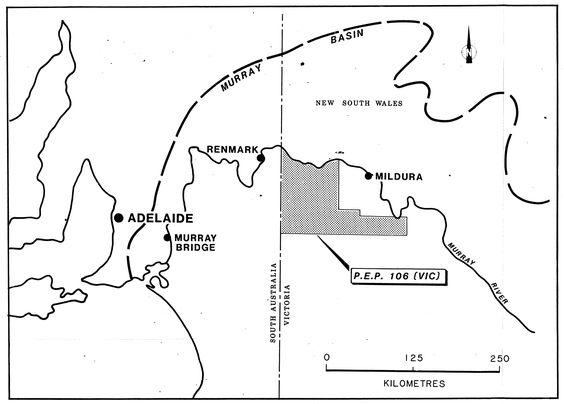
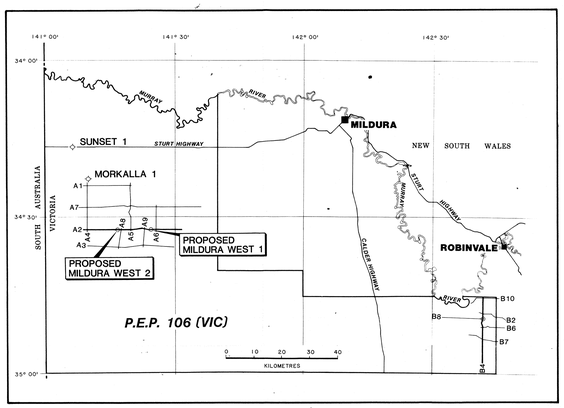
MILDURA WEST 1 & 2 PROSPECT SHEET

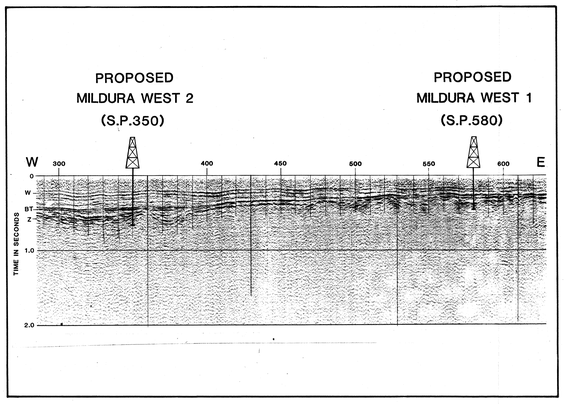
(1) LOCALITY MAP



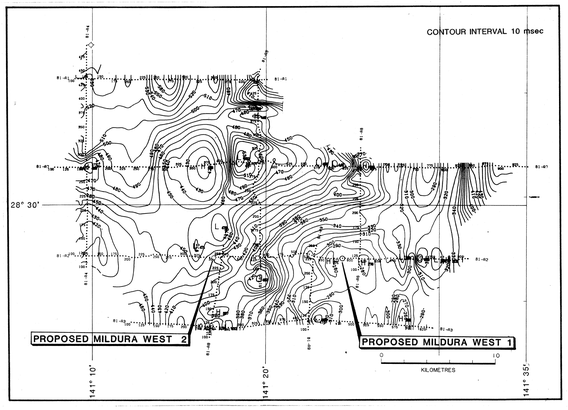
(2) WELL SITE AND SEISMIC LINE LOCATIONS



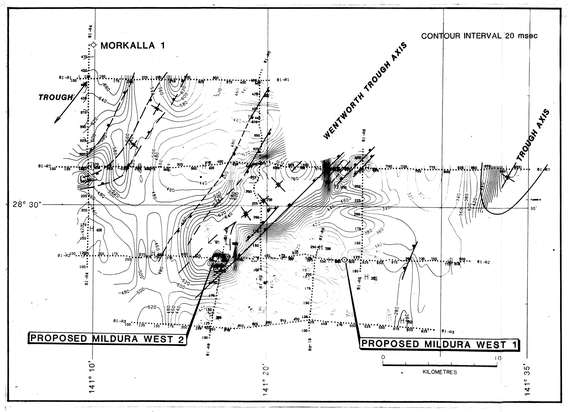
(3) SEISMIC LINE A2



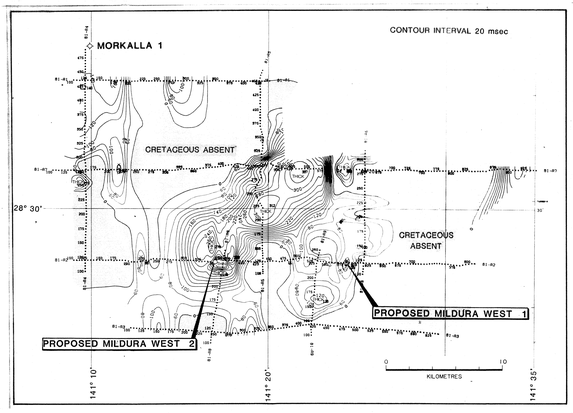
(4) BT TWO WAY TIME MAP (BASE OF TERTIARY)



(5) Z TWO WAY TIME MAP (TOP OF CAMBRIAN)



(6) BT-Z ISOTIME MAP



(7) STRATIGRAPHIC PROGNOSIS (MILDURA WEST 1 & 2)

AGE	FOR-MATION	DEPTH G.L. (metres) MW 1	DEPTH G.L. (metres) MW 2	LITH-OLOGY	DESCRIPTION	OBJECT. AND TESTING	CASING	CORING	LOGGING	MONITORING GAS	MONITORING CUTTING	ANALYSIS
QUATERNARY	BLANCHE-WATER CLAY	0	0		Sandy clay, s/s reddish yellow, smooth. Fine-med, grained.	9 5/8" to 9m						
TERTIARY MIOCENE & PLIOCENE	PARILLA SAND	30	30		Sandy brownish yellow. Fine to med. grained.							
					Sandy-gravel, light grey. Friable, slightly micaceous.							
	BOOKPURNONG BEDS	80	80		Silty s/s with interbedded clayey sandstone & mart.							
	MURRAY GROUP DUDDO LIMESTONE	100	100		Marly limestone and alternating marl-lime. Light grey- earthy and slightly fossiliferous, slightly porous to porous.		7" O.D. TO 100 M MILDURA WEST 1 7" O.D. TO 150 M MILDURA WEST 2				SURFACE TO 100 M AT 10 M INTERVALS	
	ETTRICK MARL	225	225		Marl grading to clayey marl, grey moderately hard.							
PALAEOCENE & EOCENE OLIG	RENMARK GROUP OLNEY FORMATION	243	243		Siltstone, silty-sandstone, S/s with minor lignite stringers. Fossiliferous with numerous sharks teeth.							
					Sand, light-brownish grey. Fine grained.							
					Some v. coarse grained sand interbeds.							
					Calcareous siltstone. Claystone, grey and carbonaceous.							
	WARINA FORMATION	313	348		Lignite, black, soft, pyrite, with carbonized wood fragments.							
					Sandy gravel.							
MESOZOIC EARLY CRETACEOUS	MONASH FORMATION COOMBOOL MEMBER	333	483		Interbedded sandstone, siltstone and shale.	PRIMARY TARGETS (MW2 ONLY) POTENTIAL RESERVOIR SECTIONS SHOWING POROSITY AND HYDROCARBONS WILL BE EVALUATED BY OPEN HOLE D.S.T.			RUN 1 T.D. TO SURFACE NEUTRON - GR - CALIPER. T.D. TO SURFACE SONIC - GR - CALIPER. AT T.D. T.D. TO SURFACE CASING SONIC - GR - CALIPER	TOTAL GAS DETECTOR OPERATIVE FROM SURFACE	100 M TO T.D. AT 3 M INTERVALS	SOURCE ROCK SAMPLES TO BE TAKEN FROM CUTTINGS AFTER DRILLING VITRINITE SAMPLES TO BE SELECTED FROM CORES AFTER DRILLING PALYNOLOGY TO ASSIST DIFFERENTIATION OF THE MESOZOIC AND PERMIAN SEQUENCES
	MERRETT MEMBER	433	653		Interbedded siltstone and shale. Sandstone at base.							
	PY AP MEMBER	? ?			Siltstone.							
			718		Sandstone and minor shale interbeds.							
PALAEOZOIC ? EARLY PERMIAN	UNDIFFERENTIATED SECTION ABSENT		758		Shales sandstones.							
CAMBRIAN	KANMANTOO GROUP	488 T.D. 498	793 T.D. 803		Metamorphosed sediments.							

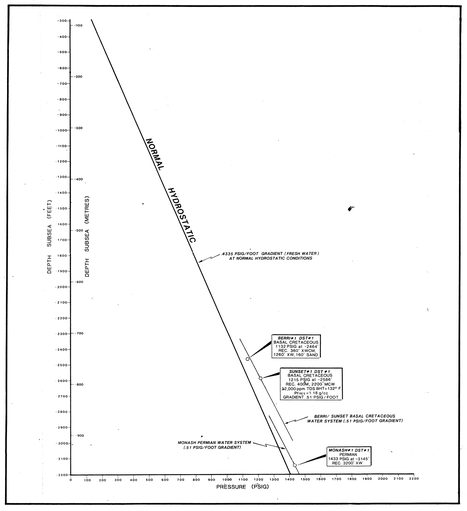
MW1 & MW2 BOTH WELLS TO HAVE ONE 20' (6.1 METRE) CORE IN THE EARLY PERMIAN SEQUENCE. IN ADDITION MILDURA WEST 2 TO HAVE ONE 20' (6.1 METRE) CORE IN THE EARLY PERMIAN SEQUENCE.

MW2 ONLY

MW1 & MW2

VELOCITY SURVEY TO BE RUN AT MILDURA WEST

(8) PRESSURE DEPTH PLOT



SYNOPSIS

Mildura West 1 and 2 are proposed exploration wells in P.E.P. 106 of the Victorian portion of the Murray Basin. The interest holders are Comserv 40%, SAOGC 60%. For which SAOGC will be operators.

The wells will be located in the southern portion of the Murray Basin. Mildura West 1 is approximately 29 kms southeast of Morkalla 1. Mildura West 2 is approximately 21 kms south-southwest of Morkalla 1.

Both wells are designed to test the possibility of hydrocarbon reservoirs in the Early Cretaceous sediments and in addition Mildura West 2 will test a probable Early Permian sequence.

LOCATION AND OBJECTIVES

	Mildura West 1	Mildura West 2
Well Names:		
Petroleum Permit:	P.E.P. 106 (Vic.) Comserv 40% SAOGC 60%	P.E.P. 106 (Vic) Comserv 40% SAOGC 60%
Location:		
(a) Seismic:	81-A2(580)	81-A2 (350)
(b) Geographic:	Lat; 34°32'30.84" Long; 141°24'26.28" (subject to survey)	Lat: 34°32'29.04" Long; 141°17'04.92" (subject to survey)
(c) Geologic:	Central Murray Basin	Central Murray Basin
(d) Nearby Wells:	29 kms southeast of Morkalla 1	21 kms south-south east of Morkalla 1.
Elevation		
(a) Ground level:	+63m (subject to survey)	+ 58m (subject to survey)
(b) Kelly Bushing:	(subject to rig allocation)	
Proposed T.D.	498m (G.L.) 435m (B.S.L.)	803m (G.L.) 745m (B.S.L)

Objectives:

Mildura West 1 is a proposed exploration well sited to test stratigraphic trapping on the eastern limb of the southern part of the Wentworth Trough. Primary targets are the sandstones of the Early Cretaceous, Merreti and Coonbool Members.

Mildura West 2 is a proposed exploration well sited to test structural closure in the thicker Pre-Tertiary sediments towards the centre of the southern end of the Wentworth Trough.

Primary Targets are the sandstones of the Early Cretaceous and Early Permian sequences.

STRUCTURE AND SEISMIC INTERPRETATION

The mapping of the Mildura West area was made using 9 lines of the 1981 Mildura West Seismic Survey. The Survey covers the southern end of the Wentworth Trough which is an Infrabasin to the main Murray Basin. In addition to the Tertiary Murray Basin sequence the Wentworth Trough is thought to contain sediments of Early Cretaceous and Early Permian age.

Mapping of the structure was conducted using three seismic reflectors W,BT and Z corresponding to the top of the Narina Formation; base of the Tertiary, and top of Cambrian, respectively. Well control is very poor since the nearest well, Morkalla 1, lies several hundred metres from seismic line A4.

STRATIGRAPHY

Stratigraphic control is poor, and has had to be made using regional trends and also well data from Sunset 1 and Morkalla 1. The prognosis for the Tertiary sequence has the best control, and uses data from Sunset 1 and Morkalla 1, whilst the Cretaceous prognosis can only be considered as a rough estimate. There is no well control for the Early Permian but it is predicted from the seismic that Mildura West 2 may penetrate an Early Permian sequence.

RESERVOIR QUALITY AND HYDROCARBONS

Hydrocarbon reservoirs are most likely to be located in the Early Cretaceous and Early Permian sequences. No significant shows have been recorded in nearby wells.

Reservoir quality in the Lower Cretaceous is expected to be good with good porsity (20 - 30%) and good permeability. No data on the reservoir quality of the Early Permian is available.

SOUCE ROCK AND MATURITY

Since no source rock or maturity data exists, one of the objectives of this drilling programme is to assess the hydrocarbon potential of the deeper sedimentary section.

DRILLING DATA

Hole Size

Depth Interval Mildura West 1	Depth Interval Mildura West 2	Hole Size
0m - 100m	0m - 150m	9 5/8"
100m - T.D.	150m - T.D.	6"

Casing

7" O.D. casing will be set into the Duddo Limestone prior to drilling 6" hole.

SOUTH AUSTRALIAN OIL & GAS CORPORATION PTY. LTD.

PROSPECT SHEET

MILDURA WEST 1 & 2

INTERP	D.R. & R.J.S.	DATE	APRIL'83
DRAWN	C.K. & J.D.	SCALE	VARIOUS

DWNG. NO. MU000.2750