
PANCONTINENTAL PETROLEUM LIMITED

ONSHORE

~~CONFIDENTIAL~~

AMADEUS BASIN
GAS PROJECT



PR 84/47
VOLUME 4

OPEN FILE

BARCODE N° : P00629

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NORTHERN TERRITORY
GEOLOGICAL SURVEY

VOLUME 4.

PR84/47

ENERGY RESOURCES CONSULTANTS

RESERVE ESTIMATES - DINGO FIELD

Probability of exceeding given values.

	100	90	50	10	0
Area (acres)	1,960	3,270	10,670	13,685	17,340
Gas Saturation (%)	40	45	50	55	60
Porosity (%)	8	9.5	11	12	13
Thickness (feet)	40	50	60	65	70
Recovery Factor (%)	60	70	75	80	83

	<u>Proven</u>	<u>Proven & Probable</u>	<u>Proven, Probable & Possible</u>
Gas in Place, (Bcf)	112	344	538
Gas Reserves, (Bcf)	79	254	398

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RESERVE ESTIMATES - ORANGE STRUCTURE

Porosity	Use	9%	11%	14%
Gas Saturaction		56%		
Net Pay	Use	15m	20m	25m
Reservoir Temperature	(Est)	145°F		
Reservoir Pressure	(Est)	4360 Psi		
Area of Closure		27,170 acres		
Gas in place		761 Bcf	1209 Bcf	1941 Bcf
Assuming 1000 Psi abandonment pressure, recovery factor is 78%				
Recoverable gas		594 Bcf	943 Bcf	1514 Bcf

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DINGO 1 - LOG INTERPRETATION VALUES

<u>Depth</u>		<u>S.K. Engineering</u>	<u>Jack Bowler</u>	<u>E.R.C.</u>	<u>P.P.L. in House</u>
2962.7- 2966.9m	Net Pay	5feet	9.8feet	13feet	6.6feet
	Porosity	8%	12%	9%	9.9%
	Sg.	48%	47%	45%	47%
2971.0- 2976.1m	Net Pay	11feet	16.4feet	16feet	14.8feet
	Porosity	10%	14%	13%	12.5%
	Sg.	50%	48%	46%	48%
2986.4- 2988.3m	Net Pay	6feet	3feet	-	-
	Porosity	9%	9.5%	-	-
	Sg.	57%	82%(?)	-	-
2991.0- 3002.3m	Net Pay	37feet	36.1feet	36feet	24.6feet
	Porosity	12%	13%	12%	12.3%
	Sg.	57%	58%	52%	55%
TOTAL	Net Pay	59feet	65.3feet	65feet	46feet
	Porosity	11.0%	12.9%	12%	12.0%
	Sg.	55%	55%	48%	51.6%

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DINGO 2 - LOG INTERPRETATION VALUES

<u>Depth</u>		<u>Jack Bowler</u>	<u>E.R.C.</u>	<u>Schlumberger Cyberlook</u>	<u>P.P.L. in House</u>
2954.7-	Net Pay	8.2feet	9.8feet	5feet	8.2feet
2957.8m	Porosity	12.7%	12%	8%	10.3%
	Sg.	60%	54%	10%	64%
2960.2-	Net Pay	13.1feet	19.7feet	10feet	13.1feet
2966.0m	Porosity	13.5%	10%	9.8%	11.2%
	Sg.	65%	50%	31%	65%
2982.2-	Net Pay	-	5.9feet	5.9feet	2.3feet
2984.0m	Porosity	-	8%	12%	9.7%
	Sg.	-	49%	40%	50%
2984.9	Net Pay	13.1feet	15.1feet	15.1feet	13.1feet
2989.5m	Porosity	14.3%	12%	12%	13.6%
	Sg.	69%	60%	40%	60%
2992.2-	Net Pay	6.6feet	4.9feet	6.5feet	4.0feet
2993.7m	Porosity	9.7%	9%	13%	9%
	Sg.	47%	50%	40%	50%
TOTAL	Net Pay	41.0feet	55.4feet	42.5feet	40.7feet
	Porosity	13%	11%	11%	11.5%
	Sg.	62%	52%	34%	61%

ENCLOSURES:

1. Dingo Orange Area - Depth Contours near top of first gas pay.
2. Seismic Line P80 - 11 showing ties to Dingo 1 and 2 and Orange 1 and 2.
3. Gamma Ray Sonic Log Correlation - Arumbera Sandstone Unit 1, showing Sonic Log Porosity Core and Log Derived Porosity. Amadeus Basin - OP 175.
4. Depth Versus Porosity Plot - Arumbera A1 and Pacoota Reservoirs, Amadeus Basin.
5. Dingo No. 1 Log Analysis Summary.
6. Dingo No. 2 Log Analysis Summary.