

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 12-1-55

Pool <u>Basin</u>			Formation <u>De la Torre</u>			County <u>San Juan</u>		
Initial <u>X</u>		Annual		Special		Date of Test <u>3-17-66</u>		
Company <u>Austral Oil Co.</u>			Lease <u>Hurricane</u>			Well No. <u>10</u>		
Unit <u>N</u>	Sec. <u>21</u>	Twp. <u>27N</u>	Range <u>9W</u>		Purchaser			
Casing <u>4 1/2</u>	Wt. <u>10.5</u>	I.D.	Set at <u>6852</u>	Perf. <u>6520</u>	To <u>6704</u>			
Tubing <u>2 3/8</u>	Wt. <u>4.7</u>	I.D.	Set at <u>6517</u>	Perf. <u>open ended</u>	To			
Gas Pay:	From <u>6520</u>	To <u>6704</u>	L	G <u>.65 est.</u>	GL	Bar. Press.		
Producing Through:			Casing	Tubing <u>X</u>	Type Well - Single - Braden head - G.G. or G.O. Dual <u>Single - Gas</u>			
Date of Completion <u>3-7-66</u>		Packer			Reservoir Temp.			

OBSERVED DATA										
Tested Through: Prover ☐ Choke ☒ Meter ☐								Type of Taps		
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
SI						<u>2052</u>		<u>2050</u>		
1.										
2.		<u>3/4"</u>	<u>375</u>		<u>65°</u>			<u>872</u>		<u>3 Hrs.</u>
3.										
4.										
5.										

FLOW CALCULATIONS							
No.	Coefficient (24 Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF P D @ 15,025 psia
1.							
2.	<u>12.365</u>		<u>387</u>	<u>.9952</u>	<u>.9608</u>	<u>1.038</u>	<u>4943</u>
3.							
4.							
5.							

PRESSURE CALCULATIONS									
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.					Specific Gravity Separator Gas _____				
Gravity of Liquid Hydrocarbons _____ deg.					Specific Gravity Flowing Fluid _____				
F _c _____ (1-e ^{-S})					P _c <u>2064</u> P _c ² <u>4,260,096</u>				
No.	$\frac{P_w}{P_c}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.									
2.	<u>884</u>					<u>781,456</u>	<u>3,478,640</u>		<u>1.2246</u>
3.									
4.									
5.									

ABSOLUTE POTENTIAL: 5754 MCFPD: n = .75 1.1641

COMPANY Austral Oil Co. WITNESSED _____

ADDRESS Box 234, Farmington, N.M. COMPANY _____

AGENT AND TITLE J. A. Morgan
Consulting Engineer

