

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>Dakota</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>Huerfano</u>			Well No. <u>9</u>			
Unit <u>A</u>	Sec. <u>20</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>7045</u>		Perf. <u>6714</u>	To <u>6885</u>			
Tubing <u>2 3/8</u>	Wt. <u>4.7</u>	I.D.	Set at <u>6611</u>		Perf. <u>open Ended</u>	To			
Gas Pay: From <u>6714</u> To <u>6885</u>		L		G <u>.65 est.</u>		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>3-6-66</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.	
SI						<u>2012</u>		<u>2012</u>	
1.									
2.		<u>3/4"</u>	<u>273</u>		<u>64°</u>			<u>745</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>28.5</u>	<u>.9962</u>	<u>.9608</u>	<u>1.029</u>	<u>3470</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>2024</u> P _e <u>4,096,576</u>				
No.	P _w 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	P _w /P _c
1.									
2.	<u>757</u>					<u>573,049</u>	<u>3,523,527</u>		<u>1.1626</u>
3.									
4.									
5.									

ABSOLUTE POTENTIAL: 3885 MCFPD; n = .75 1.1196

COMPANY Austral Oil Co WITNESSED _____

ADDRESS Box 234, Farmington COMPANY _____

AGENT AND TITLE J.H. Morgan
Consulting Engineer

