

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

Form C-122
Revised 12-1-55

Pool <i>Basin - Dakota</i>		Formation <i>Dakota</i>			County <i>San Juan</i>	
Initial <i>X</i>		Annual		Special		Date of Test <i>3-24-66</i>
Company <i>Austral Oil Co.</i>			Lease <i>State Com</i>		Well No. <i>1</i>	
Unit <i>K</i>	Sec. <i>16</i>	Twp. <i>27N</i>	Range <i>9W</i>		Purchaser	
Casing <i>4 1/2</i>	Wt. <i>10.5</i>	I.D.	Set at <i>6860</i>	Perf. <i>6586</i>	To <i>6762</i>	
Tubing <i>2 3/8</i>	Wt. <i>4.7</i>	I.D.	Set at <i>6574</i>	Perf. <i>open ended</i>	To	
Gas Pay:	From <i>6586</i>	To <i>6762</i>	L	G <i>.65 est.</i>	GL	Bar. Press.
Producing Through:		Casing	Tubing <i>X</i>	Type Well - Single - Braden head - G.G. or G.O. Dual <i>- Single - Gas -</i>		
Date of Completion <i>3-16-66</i>		Packer		Reservoir Temp.		

OBSERVED DATA

Tested Through:				Prover <input type="checkbox"/>	Choke <input checked="" type="checkbox"/>	Meter <input type="checkbox"/>	Type of Taps			
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.	
No.	(Prover) (Line) Size	(Choke) (Size) Size	Press. psig.	Diff. hw	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.		Temp. °F.
1.						<i>2032</i>		<i>2032</i>		
2.		<i>3/4"</i>	<i>260</i>		<i>68°</i>			<i>725</i>	<i>3 hrs</i>	
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 PD @ 15,025 psia
1.							
2.	<i>12.365</i>		<i>272</i>	<i>.9924</i>	<i>.9608</i>	<i>1.027</i>	<i>3293</i>
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 *2044* P_c^2 *4177, 936*

No.	$\frac{P_w}{P_c}$	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.	<i>737</i>					<i>543,169</i>	<i>3634,767</i>		<i>1.1494</i>
3.									
4.									
5.									

ABSOLUTE POTENTIAL: *3584* MCFPD: $n = .75$ *1.0*
 COMPANY *Austral Oil Co. Inc.* WITNESSED _____
 ADDRESS *Box 234 Farmington, N.M.* COMPANY _____
 AGENT AND TITLE *J.A. Duncan, Eng.*

