

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test 7-3-64
Company Austral Oil Company Incorporated Lease Huerfano Well No. 7-21
Unit _____ Sec. 21 Twp. 27N Rge. 9W Purchaser _____
Casing 1 1/2" Wt. 10.5# I.D. 4.052' Set at 6,867 Perf. 6576-93 To 6742-50
6640-70 6709-29 6772-90
Tubing 2 1/16" Wt. 3.3# I.D. 1.751 Set at 6,547 Perf. _____ To _____
Gas Pay: From _____ To _____ L _____ xG 0.65 EST GL Bar. Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single - Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 6-26-64 Packer None Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover, (Line) Size)	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.						2048		2052		
2.										
3.		0.750	337		83			836		3 Hrs.
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.							
3.	12.3650		349	0.9741	0.9608	1.030	4160
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/cbl.
Gravity of Liquid Hydrocarbons _____ deg.
 F_c _____ $(1-e^{-s})$
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
 P_c _____ P_c^2 _____

No.	P_w P_t (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.									
3.	848					719,104	3,540,992		1.203
4.									
5.									

Absolute Potential: 4779 MCFPD; n .75 1.1487COMPANY Austral Oil Company IncorporatedADDRESS 300 San Jacinto Building, Houston, TexasAGENT and TITLE T. A. Dugan, Consulting Engineer

WITNESSED _____

COMPANY _____

REMARKS _____

