

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Formation Dakota County San Juan
 Initial X Annual _____ Special _____ Date of Test January 29, 1963
 Company Austral Oil Company INC Lease Huerfanito Unit Well No. 1-33
 Unit H Sec. 33 Twp. 27N Rge. 9W Purchaser _____
 Casing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
 Tubing 2 1/8 Wt. _____ I.D. _____ Set at 6794 Perf. Open End To _____
 Gas Pay: From _____ To _____ L _____ xG .65 est -GL 4416 Bar.Press. _____
 Producing Thru: Casing _____ Tubing X Type Well Single - Gas
 _____ Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: _____ Packer 6790 Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~OPEN~~ (Choke) ~~NEEPEX~~ 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.						2030				
2.		3/4"	309		74°					3 hrs
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-MCFPD @ 15.025 psia
1.							
2.							
3.	12.365		321	.9868	.9608	1.029	3872
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 13.239 (1-e^{-s}) .275 P_c 2042 P_c² 4169.764

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	P _w /P _c
1.									
2.									
3.	321	103.047	51.261	2627.69	722.615	825.656	3311.108		1.2469
4.									
5.									

Absolute Potential: 4569 MCFPD; n .75 1.1799

COMPANY Austral Oil Company
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 AGENT and TITLE J. H. [Signature] Consulting Engineer
 WITNESSED _____
 COMPANY _____

REMARKS

