

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesa Verde County Rio ArribaInitial XX Annual _____ Special _____ Date of Test 8-24-59Company Pacific Northwest Pipeline Lease 27-5 Well No. 39-12Unit _____ Sec. 12 Twp. 27N Rge. 5W Purchaser Not ConnectedCasing 7 5/8" Wt. 5 1/2" I.D. _____ Set at 3954' Perf. 5582' To 6088'Tubing 2" Wt. 4.74 I.D. 1.915 Set at 555' Perf. _____ To _____Gas Pay: From _____ To _____ L 5582' xG .630 -GL 3526 Bar.Press. 12Producing Thru: Casing _____ Tubing XXX Type Well Dual G.G.

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 8-12-59 Packer 5432' Reservoir Temp. _____

OBSERVED DATA

Tested Through (XXXXXX) (Choke) (XXXXXX) 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.	
SI						<u>114'</u>				
1.		<u>3/4"</u>	<u>2384</u>		<u>63</u>	<u>2384</u>	<u>63</u>			<u>3 hrs</u>
2.										
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.	<u>12.3650</u>		<u>250</u>	<u>.9971</u>	<u>.9608</u>	<u>1.024</u>	<u>3033</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

 $P_c = \frac{24.62}{9.402} = 2.61 \text{ tbg.}$ $(1-e^{-s}) = 0.026 = 1.4 \text{ tbg.}$ $0.026 = 2 \text{ tbg.}$

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

 $P_c = 1158$ $P_c^2 = 1340.964$

No.	$\frac{P_w}{P_t}$ (psia)	P_t^2	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1-e^{-s})}$	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.			<u>74.672</u>	<u>5575.908</u>	<u>144.974</u>		<u>950.339</u>		<u>1.4110</u>
2.			<u>28.516</u>	<u>813.162</u>	<u>183.755</u>				
3.									
4.	<u>250</u>	<u>62,500</u>			<u>328,749</u>	<u>391,249</u>		<u>625</u>	
5.									

Absolute Potential: 3988 MCFPD; n .75/1.2950COMPANY PACIFIC NORTHWEST PIPELINE CORP.ADDRESS 4181 W. BroadwayAGENT and TITLE C. R. Wagner - Well Testing EngineerWITNESSED Tommy SmithCOMPANY New Mexico Oil Conservation Commission

REMARKS

