

3 - ~~AMBU~~
 1 - L. G. Truby
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 1 - File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Undesignated Formation Pictured Cliffs County Rio Arriba
 Initial X Annual _____ Special _____ Date of Test April 9, 1957
 Company PACIFIC NORTHWEST PIPELINE CORP. Lease Indian O Well No. 8 /
 Unit _____ Sec. 32 Twp. 28 Rge. 3 Purchaser PACIFIC NORTHWEST PIPELINE CORP.
 Casing 4" Wt. _____ I.D. _____ Set at 3950' Perf. _____ To _____
 Tubing 8" Wt. _____ I.D. _____ Set at 3627.39' Perf. _____ To _____
 Gas Pay: From _____ To _____ L _____ x Gest. .750 -GL _____ Bar. Press. _____
 Producing Thru: Casing _____ Tubing X Type Well _____
 Date of Completion: _____ Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Meter~~) Type Taps _____
Shut-in 8 days

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
1.		<u>3/4" M</u>	<u>22</u>			<u>735</u>		<u>735</u>	
2.								<u>247</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-MCFPD @ 15.025 psia
1.	<u>14.1605</u>		<u>34</u>	<u>.9981</u>	<u>.8944</u>	<u>1.005</u>	<u>432</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 F_c _____ (1-e^{-s}) _____
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 747 P_c² 558

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>259</u>	<u>67.1</u>					<u>491</u>		<u>1.136</u>
3.									
4.									
5.									

Absolute Potential: 493 MCFPD; n .85/1.114
 COMPANY PACIFIC NORTHWEST PIPELINE CORPORATION
 ADDRESS 405 1/2 West Broadway, Farmington, New Mexico
 AGENT and TITLE B. C. Adams
 WITNESSED _____
 COMPANY _____

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_w = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_f = Meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressibility factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

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