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Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesa Verde County San Juan

Initial XXX Annual _____ Special _____ Date of Test 9-11-59

Company Pacific Northwest Pipeline Corp., Lease 27-9 Well No. 2-12

Unit Q Sec. 12 Twp. 27N Rge. 9W Purchaser Not Connected

Casing 5 7/8 Wt. 24# I.D. 7 Set at 2210 Perf. 4276 To 4461

Tubing 1 1/2 Wt. 2.4 I.D. 1.38 Set at 4426 Perf. 4423 To 4426

Gas Pay: From 4276 To 4461 L _____ xG .650 -GL _____ Bar.Press. 12

Producing Thru: Casing _____ Tubing XXX Type Well Single

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

Date of Completion: 9-2-59 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~XXXXXX~~ (Choke) ~~XXXXXX~~ S.I. 7 Days 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										
1.		3/4	154		55°	1079	55°	1077		3 Hrs.
2.						154		939		
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.	12.3650		166	1.0048	.9608	1.015	2011
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1091 P_c 1190.3

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	951 P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.									
2.						904.4	285.9		4.16
3.									
4.									
5.									

Absolute Potential: 5858 MCFPD; n .75/2.9128

COMPANY Pacific Northwest Pipeline Corporation

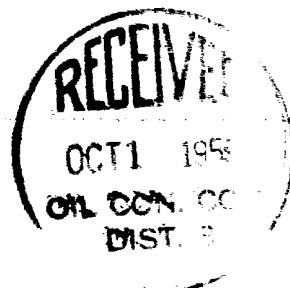
ADDRESS 418 1/2 West Broadway - Farmington, New Mexico

AGENT and TITLE C. R. Wagner - Well Test Engineer

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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