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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco-Mesa Verde Formation Mesa Verde County Rio Arriba

Initial XX Annual _____ Special _____ Date of Test 11-11-59

Company Pan American Lease Rosa 31-6 Well No. 35-5X

Unit K Sec. 5 Twp. 31N Rge. 6W Purchaser Pacific Northwest Pipeline Corp.

Casing 7" Wt. 23# I.D. 6.25 Set at 7710 Perf. 5600 To 5684

Tubing 1 1/2 Wt. 2.4 I.D. 1.38 Set at 5690 Perf. 5687 To 5690

Gas Pay: From 5600 To 5684 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: 10-19-59 Packer _____ Reservoir Temp. _____

OBSERVED DATA

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

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1205		1205		
1.		3/4"	135		56°	135	56°	923		3 Hours
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.	12.3650		147	1.0039	.9608	1.013	1776
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 1217 P_c² 1481.09

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	935 P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						874.23	606.86		2.44
2.									
3.									
4.									
5.									

Absolute Potential: 3467 MCFPD; n .75/1.9522

COMPANY Pacific Northwest Pipeline Corporation

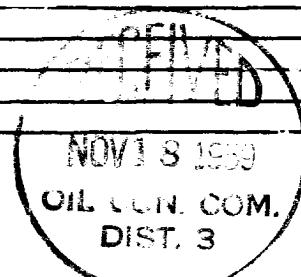
ADDRESS 418 1/2 West Broadway - Farmington, New Mexico

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} = Supercompressability 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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