

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County Rio Arriba

Initial XX Annual XX Special XX Date of Test 9-25-56

Company Pacific Northwest Pipeline Corp. Lease 29-5 Well No. 34-34

Unit B Sec. 34 Twp. 29N Rge. 5W Purchaser Not connected.

Casing 5" Wt. 3790 I.D. 6017 Set at 5938 Perf. Est. To

Tubing 2" Wt. 5938 I.D. Est. Set at 5938 Perf. Est. To

Gas Pay: From 5496 To 5991 L 5991 xG .690 -GL 12.0 Bar.Press. 12.0

Producing Thru: Casing XX Tubing XX Type Well Single

Date of Completion: Packer Reservoir Temp.

OBSERVED DATA

Tested Through XXXXXX (Prover) XXXXXX (Choke) XXXXXX (Meter) Shut-in 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.	
SI	2"	3/4"	198		68	1122	667	Shut-in 3 hrs.
1.								
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.	14.1605		210	.9924	.9325	1.022	2812
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 1134 P_c 1286.0 P_c

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.	679					461.0	825.0		1.559
2.									
3.									
4.									
5.									

Absolute Potential: 3,923 MCFPD; n .75 = 1.395

COMPANY Pacific Northwest Pipeline Corp.

ADDRESS 405 West Broadway, Farmington, New Mexico

AGENT and TITLE W. B. Richardson, III, 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 .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Reported 2		
DATE RECEIVED		
Operator		
Santa Fe		
Previous Office		
State Land Office		
U. S. G. O.		
Transporter		
File	/	✓