

3-DOCC Astec
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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 Formation Mesa Verde County Rio Arriba
 Initial XXX Annual _____ Special _____ Date of Test 9-15-58
 Company PACIFIC NORTHWEST PIPELINE Lease San Juan 32-8 Well No. 30-27
 Unit M Sec. 27 Twp. 32 North Rge. 8 West Purchaser _____
 Casing 5 1/2" Wt. _____ I.D. _____ Set at 6130' Perf. 5524' To 6084'
 Tubing 1-1/4" Wt. _____ I.D. _____ Set at 6075' Perf. _____ To _____
 Gas Pay: From 5524 To 6084 L _____ xG .650 -GL _____ Bar.Press. 12
 Producing Thru: Casing _____ Tubing _____ Type Well _____
 Date of Completion: _____ Packer _____ Reservoir Temp. _____
 Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Prover) (Choke) (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.	Press. psig		Temp. °F.
SI										
1.		3/4"	198		65°	1104 247		1104 198	65°	3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor Ft	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		210	.9952	.9608	1.019	2530
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg.
 Specific Gravity Flowing Fluid _____
 P_c _____ (1-e^{-s}) P_c 1116 P_c 1245.5

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	259 P _w ²	P _c ² -P _w ²	Cal. P _w	P _w / _c
1.						67.1	1178.4		1.06
2.									
3.									
4.									
5.									

Absolute Potential: 2.643 MCFPD; n .75/ 1.0446

COMPANY PACIFIC NORTHWEST PIPELINE Corporation
 ADDRESS 418 West Broadway, Farmington, New Mexico
 AGENT AND TITLE G. 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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