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1-File

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 San Juan
Initial xx Annual _____ Special _____ Date of Test 10-29-57
Company PACIFIC NORTHWEST PIPELINE Lease San Juan 32-7 Well No. 16-17
Unit H Sec. 17 Twp. 32N Rge. 7W Purchaser Not connected
Casing 5-1/2" Wt. _____ I.D. _____ Set at 5938' Perf. 5918' To 5402'
Tubing 1-1/4" Wt. _____ I.D. _____ Set at 5906' Perf. _____ To _____
Gas Pay: From _____ To _____ L _____ xG .650 -GL _____ Bar.Press. _____
Producing Thru: Casing xx 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 31 days 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						450		1231		
1.		3/4"				430		150	58°	3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wPf}}$	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		162	1.0019	9608	1.015	2,241
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 0.6520 (1-e^{-s}) 0.244
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1243 P_c² 1545.049

No.	P _w P _t (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.	162	26.244	1.461	2.135	.582	26.765	1518.284		1.02
2.									
3.									
4.									
5.									

Absolute Potential: 2,279 MCFPD; n .75/ 1.0169
COMPANY PACIFIC NORTHWEST PIPELINE CORPORATION
ADDRESS 405 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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