

1-MMOCC-Astee
1-L.G. Truby
1-W.A. Johnston
2-Wayne Smith (Phillips Pet. Co.)
1-File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County Rio Arriba
Initial xx Annual _____ Special _____ Date of Test 10-11-56
Company Pacific Northwest Pipeline Corp. Lease 29-6 Well No. 48-35
Unit A Sec. 35 Twp. 29-N Rge. 6-W Purchaser Not connected.
Casing 7-5/8 Wt. _____ I.D. _____ Set at 3518 Perf. 5626 To 5052
Tubing 2 Wt. _____ I.D. _____ Set at 5626.55 Perf. _____ To _____
Gas Pay: From 5052 To 5626 L _____ xG .690 -GL _____ Bar.Press. 12.0
Producing Thru: Casing _____ Tubing xx Type Well Single
Date of Completion: _____ Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Pressure) (Choke) (Valve) SI 7 days Type Taps - -

No.	Flow Data					Tubing	Data	Casing Data		Duration of Flow Hr.
	(Press) (Size) Size	(Choke) (Size) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1059		1065		Shut in
1.										
2.	2	3/4	277		75	277	75	622		3 hours
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.							
2.							
3.	14.1605		289	.9859	.9325	1.029	3872
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 _____
P_c 1077 P_c 1159.9

No.	P _w P _t (psia)	P _c 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.									
2.									
3.	634					402.0	757.9		1.530
4.									
5.									

Absolute Potential: 5328 MCFPD; n .75/1.376

COMPANY Pacific Northwest Pipeline Corporation

ADDRESS 4051 W. Broadway, Farmington, New Mexico

AGENT AND TITLE W. B. Richardson, III, Well Test Engr.

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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