3-N.M.O.C.C. Aztec
1-Bill Cutler
1-Oliver Fowler
1-File
2-Wayne Smith

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. __19-4__

Unit __N__ Sec. __4__ Twp. __31N__ Rge. __7W__ Purchaser __Not connected__

Casing __5-½"__ Wt. _____ I.D. _____ Set at __5955'__ Perf. __5934'__ To __5454'__

Tubing __1-1/4"__ Wt. _____ I.D. _____ Set at __5894'__ Perf. _____ To _____

Gas Pay: From _____ To _____ L _____ xG __.650__ ₋GL _____ Bar.Press. _____

Producing Thru: Casing __XX__ Tubing _____ Type Well _____

Date of Completion: _____ Packer _____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meters)   Shut in 11 days   Type Taps _____

No.	Flow Data (Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Temp. °F.	Casing Data Press. psig	Temp. °F.	Duration of Flow Hr.
SI						1100		1131		
1.		3/4				268		165	55°	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		177	1.0048	.9608	1.016	2147
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 __1143__ P_c^2 __1306.4__

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2$ $(1-e^{-s})$	280 P_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.						78.40	1228.0		1.06
2.									
3.									
4.									
5.									

Absolute Potential: __2,243__ MCFPD; n __.75/ 1.0446__

COMPANY __PACIFIC NORTHWEST PIPELINE CORPORATION__

ADDRESS __405½ 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.