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 __X X__ Annual _____ Special _____ Date of Test __4/17/57__

Company __Pacific Northwest Pipeline__ Lease __30-6__ Well No. __11-23__

Unit __L__ Sec. __23__ Twp. __30N__ Rge. __6W__ Purchaser __Unconnected__

Casing __5 1/2__ Wt. _____ I.D. _____ Set at __6110__ Perf. __5608__ To __6056__

Tubing __2__ Wt. _____ I.D. _____ Set at __6034.5³__ Perf. _____ To _____

Gas Pay: From __5608__ To __6056__ L _____ xG __.650__ -GL _____ Bar.Press. __12__

Producing Thru: Casing _____ Tubing __X X__ Type Well __Single__
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer __No__ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) __S 1 8 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						1085		1089		
1.		3/4	195		46°	195	63°	506		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		207	.9971	.9608	1.020	2864
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 _____
P_c __1101__ P_c^2 __1212.2__

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-s})$	518 P_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.						268.3	943.9		1.28
2.									
3.									
4.									
5.									

Absolute Potential: __3,447__ MCFPD; n __.75/ 1.2034__

COMPANY __Pacific Northwest Pipeline__
ADDRESS _____
AGENT and TITLE __C. R. Wagner__ __Well Test Engineer__
WITNESSED __Tom Giant__ __Engineer__
COMPANY __El Paso Natural Gas__
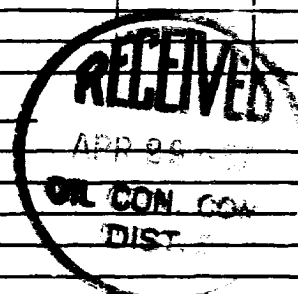
REMARKS

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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