

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 San Juan
Initial XX Annual _____ Special _____ Date of Test 9-5-57
Company PACIFIC NORTHWEST PIPELINE Lease San Juan 32-8 Well No. 20-4
Unit L Sec. 4 Twp. 31N Rge. 8W Purchaser connected
Casing 5-1/2 Wt. _____ I.D. _____ Set at 5911' Perf. 5846' To 5332'
Tubing 1-1/4 Wt. _____ I.D. _____ Set at 5843' Perf. _____ To _____
Gas Pay: From 5332' To 5846' L _____ xG .650 -GL _____ Bar.Press. 12
Producing Thru: Casing _____ Tubing XX Type Well Single
Date of Completion: _____ Packer _____ Reservoir Temp. _____
Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through 11/10/57 (Choke) 11/10/57 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. $^{\circ}\text{F.}$	Press. psig	Temp. $^{\circ}\text{F.}$	Press. psig	Temp. $^{\circ}\text{F.}$	
SI						822		1018		
1.		3/4"	60		56°	60	56°	482		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.	14.1605		72	1.0039	.9608	1.000	983
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
 P_c 1030 P_c^2 1060.9

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2$ (1-e ^{-s})	$\frac{494}{P_w^2}$	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.						244.0	816.9		1.30
2.									
3.									
4.									
5.									

Absolute Potential: 1197 MCFPD; n .75/ 1.2174
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 .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received	3	
DISTRIBUTION		
	NO.	FINISHED
Operator		
Santa Fe	/	
Proration Office		
State Office		
U. S. G. S.	/	
Transporter		
File	/	<input checked="" type="checkbox"/>

