3-N.M.O.C.C. Aztec
1-Bill Cutler
1-W. R. Johnston
1-Wayne Smith
1-Oliver Fowler
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 Mesa Verde County Rio Arriba

Initial x Annual _____ Special _____ Date of Test 6-26-57

Company Pacific Northwest Pipeline Corp. Lease San Juan 29-5 Well No. 37-31

Unit L Sec. 31 Twp. 29N Rge. 5W Purchaser Not Connected

Casing 5 1/2 Wt. _____ I.D. _____ Set at 5740 Perf. 5696 To 5152

Tubing 1-1/4 Wt. _____ I.D. _____ Set at 5680 Perf. _____ To _____

Gas Pay: From 5152 To 5696 L _____ xG .650 -GL _____ Bar.Press. 12

Producing Thru: Casing _____ Tubing x Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 6/19/57 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Shut In 7 days Type Taps _____

	Flow Data					Tubing Data		Casing Data		
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	Duration of Flow Hr.
SI										
1.						1070		1078		
2.		3/4	144		52°	144	52°	977		3
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		156	1.0078	.9608	1.015	1896
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 _____
F_c _____ $(1-e^{-s})$ _____ P_c 1090 P_c^2 1188.1

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	989 P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.						978.1	210.0		5.66
2.									
3.									
4.									
5.									

Absolute Potential: 6957 MCFPD; n .75/3.6695

COMPANY Pacific Northwest Pipeline Corporation
ADDRESS ~~405~~ 405 ½ West Broadway
AGENT and TITLE C. A. Wagner - Well Test Engineer
WITNESSED _____
COMPANY _____

RECEIVED
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DIST.

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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