

1 - ~~EPWD-Perm.~~ NEW MEXICO OIL CONSERVATION COMMISSION
1 - W. G. Outler
1 - File

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Formation Mesa Verde County Rio Arriba
Initial XXX Annual _____ Special _____ Date of Test 1-7-60
Company Pacific Northwest Pipeline Lease 29-5 Well No. 46-21
Unit B Sec. 21 Twp. 29N Rge. 5W Purchaser Not Connected
Casing 5 1/2" Wt. 15.5 I.D. _____ Set at 6000 Perf. 5492 To 5980
Tubing 1 1/2" Wt. 2.4 I.D. _____ Set at 5860 Perf. - To -
Gas Pay: From 5492 To 5980 L _____ xG .650 -CL _____ Bar.Press. 12
Producing Thru: Casing _____ Tubing XXX Type Well Single
Date of Completion: 12-30-59 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~XXXXXX~~ (Choke) ~~XXXXXX~~ 2.1. 8 Days Type Taps _____

No.	Flow Data				Tubing Data		Casing Data		Duration of Flow Hr.
	(XXXXXX) (XXXXXX) XXXX (Choke) (XXXXXX) Size	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.	
		psig	h _w	°F.	psig	°F.	psig	°F.	
SI					<u>1112</u>		<u>1112</u>		
1.	<u>3/4</u>	<u>147</u>		<u>48°</u>	<u>147</u>	<u>48°</u>	<u>904</u>		<u>3 hrs.</u>
2.									
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.	<u>12.3650</u>		<u>199</u>	<u>1.0117</u>	<u>.9608</u>	<u>1.016</u>	<u>1942</u>
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 1124 P_c 1263.38

No.	P _w P _t (psia)	P _t 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.						<u>839.06</u>	<u>424.32</u>		<u>2.98</u>
2.									
3.									
4.									
5.									

Absolute Potential: 4,404 MCFPD; n .75 (2.2680)
COMPANY Pacific Northwest Pipeline Corporation
ADDRESS 418 West Broadway - Farmington, N.M.
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} = Supercompressibility 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		
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DATE RECEIVED		
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County	1	
Production Well		
State Land Office		
U.S. G.S.		
Transfer Order		
File	1	1