

3 - New Mexico Oil Conservation Comm. - Aztec
1 - Mr. W. G. Cutler NEW MEXICO OIL CONSERVATION COMMISSION
1 - Mr. Oliver Fowler - EPNG
1 - Mr. Lou Galloway - EPNG
1 - File

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 9-4-59

Company Pacific Northwest Pipeline Corp Lease 27-9 Well No. 1-1

Unit B Sec. 1 Twp. 27N Rge. 9W Purchaser Not Connected

Casing 7 5/8" Wt. 26.4 I.D. 26.4 Set at 2214' Perf. 4314' To 4468'

Tubing 1 1/4" Wt. 2.4 I.D. 1.38 Set at 4452 Perf. 4450' To 4452'

Gas Pay: From 4314' To 4468' L _____ xG .650 -GL _____ Bar.Press. 12

Producing Thru: Casing _____ Tubing XXX Type Well Single

Date of Completion: 8-20-59 Packer No Reservoir Temp. 140° F

OBSERVED DATA

Tested Through (XXXXX) (Choke) (XXXXX) Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.		3/4	179		53	179	53	906		3
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.	12.3650		191	1.0068	.9608	1.019	2328
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 1039 P_c 1194.6

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	$\frac{918}{P_w^2}$	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.						842.7	351.9		3.39
2.									
3.									
4.									
5.									

Absolute Potential: 5816 MCFPD; n .75/2.4982

COMPANY Pacific Northwest Pipeline Corporation

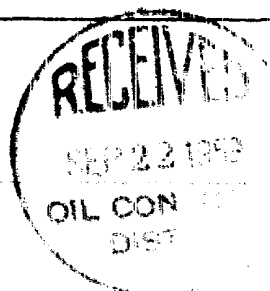
ADDRESS 418 1/2 W. Broadway, Farmington, New Mex.

AGENT and TITLE D. W. Wagner - Well Testing 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_w = 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_{sv} - 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_f .

OIL CONSERVATION COMMISSION	
AZTEC DISTRICT OFFICE	
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