

3 - A.M.O.C.C.-Aztec

1 - L.G. Truby

1 - W. R. Johnston

NEW MEXICO OIL CONSERVATION COMMISSION

1 - L. D. Galloway - E.P.N.G.

2 - Wayne Smith - Phillips Petroleum

1 - File

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Mesaverde Formation Mesaverde County Rio Arriba

Initial x Annual _____ Special _____ Date of Test 11-14-56

Company Pacific Northwest Pipeline Corp. Lease San Juan 28-6 Well No. 65-24

Unit G Sec. 24 Twp. 28N Rge. 6W Purchaser Pacific Northwest Pipeline Corp.

7 5/8 Casing 5 1/2 Wt. _____ I.D. _____ Set at 5740 Perf. 5730 To 5108

Tubing 2 Wt. _____ I.D. _____ Set at 5691 Perf. _____ To _____

Gas Pay: From 5730 To 5108 L _____ xG .690 est. -GL _____ Bar. Press. 12

Producing Thru: Casing _____ Tubing xx Type Well Gas

Date of Completion: _____ Packer _____ Reservoir Temp. _____

Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Pr~~ver~~) (Choke) (Met~~er~~) Shut in - 6 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						1030		1032		
1.		3/4				277	70°	638		3 hrs.
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.							
2.	14.1605		289	.9905	.9325	1.031	3897
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 1044 P_c 1090.0

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	650 P _w ²	P _c ² -P _w ²	Cal. P _w	P _w F _c
1.						422.5	667.5		1.64
2.									
3.									
4.									
5.									

Absolute Potential: 5.648 MCFPD; n .75/1.4492

COMPANY Pacific Northwest Pipeline Corporation

ADDRESS 405 1/2 West Broadway

AGENT and TITLE Tom Grant

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		
No. Copies Received <u>3</u>		
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	1	
Production Office		
State Engineering		
U. S. G. S.	1	
Transporter		
File	1	✓