

3 - N.M.O.C.C. (Aztec)
1 - L. G. Truby
1 - W. R. Johnston
1 - Phillips Petroleum
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 Mesaverde County Rio Arriba
Initial Annual Special XX Date of Test 9-19-56
Company Pacific Northwest Pipeline Corp. Lease San Juan 30-5 Well No. 16-26
Unit N Sec. 26 Twp. 30N Rge. 5W Purchaser Pacific Northwest Pipeline Corp.
Casing 5" Wt. I.D. Set at 5888 Perf. 5456 To 5836
Tubing Wt. I.D. Set at Perf. To
Gas Pay: From 5836 To 5456 L Est. .680 -GL Bar.Press. 12.0
Producing Thru: Casing Tubing XX Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8-25-56 Packer No Reservoir Temp.

OBSERVED DATA

Tested Through XXXXXX (Choke) XXXX Type Taps

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.	
			psig	h _w	°F.	psig	°F.	psig	°F.	
SI						1006		997		Shut-in
1.	2"	3/4	152		65	152	65	397		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.	14.1605		164	.9952	.9393	1.817	2209
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

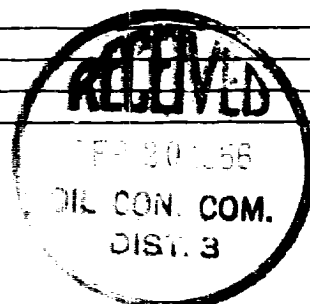
Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c (1-e^{-s})
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 1018 P_c 1036.3

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.	409					167.3	869.0		1.193
2.									
3.									
4.									
5.									

Absolute Potential: 2520 MCFPD; n .75 = 1.141

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405 1/2 West Broadway, Farmington, New Mexico
AGENT and TITLE W. B. Richardson, III, 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	
GAS BACK PRESSURE TEST	
WELL NO.	2
DATE	
TIME	
TESTER	
APPROVED	
SUPERVISOR	
ENGINEER	
COMMISSIONER	