

3-BOCC Artec
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1-Smith
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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Elanco Formation Mano Verde County Rio Arriba
Initial XX Annual Special Date of Test 5-26-58
Company PACIFIC NORTHWEST PIPELINE Lease San Juan 29-6 Well No. 59-5
Unit 1 Sec. 5 Twp. 25N Rge. 6W Purchaser not connected
Casing 5 1/2" Wt. I.D. Set at 5830' Perf. 5894' To 5740'
Tubing 1-1/4" Wt. I.D. Set at 5721' Perf. To
Gas Pay: From To L xG .650 -GL Bar.Press. 12
Producing Thru: Casing XX Tubing Type Well single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: Packer Reservoir Temp.

OBSERVED DATA

Tested Through (XXXXX) (Choke) (XXXXX) Start in 7 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										
1.		3/4"	269		57	975		1014	57	3 hours
2.						284		269		
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		281	1.0029	9608	1.008	3412
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 1086 P_c 1052.7

No.	$\frac{P_w}{P_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1-e^{-s})}$	$\frac{296}{P_w^2}$	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.						296			
2.						87.6	965.1		1.09
3.									
4.									
5.									

Absolute Potential: 3.672 MCFPD; n .75/ 1.0667
COMPANY PACIFIC NORTHWEST PIPELINE CORPORATION
ADDRESS 418 West Broadway, Farmington, New Mexico
AGENT and TITLE G. 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} = 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 .

OIL CONSERVATION COMMISSION	
ADJUTANT GENERAL'S OFFICE	
NAME OF WELL	3
DATE OF TEST	
TESTER	
DATE OF REPORT	
REPORT NO.	
DATE OF REVIEW	
REVIEWER	
FILE NO.	
FILED	☒