

3-BBCC Artec
1-Bill Cutler
1-L. D. Galloway
1-Oliver Fowler
1-File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Alamo Formation Mesa Verde County Rio Arriba
Initial XX Annual _____ Special _____ Date of Test 6/23/58
Company PACIFIC NORTHWEST PIPELINE Lease San Juan 27-5 Well No. 38-16
Unit Q Sec. 16 Twp. 27N Rge. 5W Purchaser not connected
Casing 7-5/8" Wt. _____ I.D. _____ Set at 3638.60' Perf. 5744' To 5078'
2-3/8" Wt. 4.78 I.D. _____ Set at 5741.12' Perf. _____ To _____
Tubing 1-1/4" Wt. 2.34 I.D. _____ Set at 3452.66' Perf. 3430' To 3478'
Gas Pay: From _____ To _____ L 5741' xG .650 -GL 3301 Bar.Press. 12
Producing Thru: Casing _____ Tubing XX Type Well Dual
Date of Completion: _____ Packer 3638.74 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Flowed) (Choke) (Match) 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.	
1.		3/4"	90		63°	1-1	63°			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		102	.9971	.9503	1.000	1.000
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 9.402 (1-e^{-S}) 0.237
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1023 P_c² 1046.529

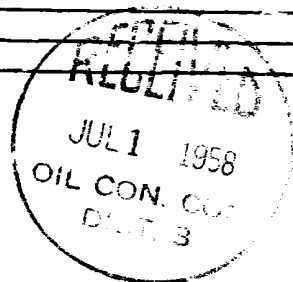
No.	P _w P _t (psia)	P _c ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	102	10404	11.45	131.1	123.7	10404	2.56	10406	1.0408
2.									
3.									
4.									
5.									

Absolute Potential: 1,258 MCFPD; n .75/ 1.0298

COMPANY PACIFIC NORTHWEST PIPELINE CORPORATION
ADDRESS 1111 1/2 N. 1st St., Farmington, New Mexico
AGENT and TITLE G. R. ... - Well Test Engineer
WITNESSED Fred Cook and Richard ...
COMPANY BN 600 El Paso Natural Gas

REMARKS

Top Liner @ 3591'
Baker H.G.J. Packer set @ 3638.74'
Dual Completion with Mesa Verde



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		
AZTEC DISTRICT OFFICE		
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DATE RECEIVED		
DATE FILED	1	
DATE INDEXED	1	
DATE RECORDED	1	
DATE SERIALIZED	1	
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