

NEW MEXICO OIL CONSERVATION COMMISSION

3-NMOCC AZTEC
1-Bill Cutler
1-L. D. Galloway
1-O. W. Fowler
1-File

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesa Verde County Rio Arriba
Initial xx Annual _____ Special _____ Date of Test 6-16-58
Company PACIFIC NORTHWEST PIPELINE Lease San Juan 30-6 Well No. 28-33
Unit B Sec. 33 Twp. 30N Rge. 6W Purchaser _____
Casing 5-1/2" Wt. 14.4 I.D. _____ Set at 5670' Perf. 5142' To 5624'
Tubing 1-1/4" Wt. 2.34 I.D. _____ Set at 5623' Perf. _____ To _____
Gas Pay: From _____ To _____ L _____ xG .650 -GL _____ Bar.Press. 12
Producing Thru: Casing x Tubing _____ Type Well single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through 11/16/58 (Choke) (Mallet) Shut in 38 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						1038		1037		
1.		3/4"	494		70"	523		494		3 hours
2.										
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		506	.9905	.9600	1.048	6240
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s}) _____

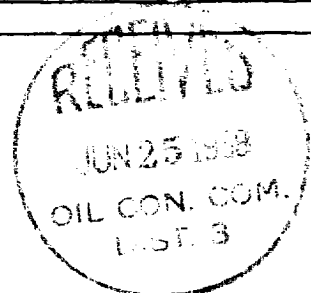
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1050 P_c² 1102.5

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	535 P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						286.2	816.3		1.35
2.									
3.									
4.									
5.									

Absolute Potential: 7.815 MCFPD; n .75/ 1.2524

COMPANY PACIFIC NORTHWEST PIPELINE CORPORATION
ADDRESS 418 1/2 West Broadway, Farmington, New Mexico
AGENT and TITLE C. R. Wagner - Well Test Engineer
WITNESSED Frank Clark
COMPANY El Paso Natural Gas Company

REMARKS



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_2} = 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	
No. Carlos Reyes 1-2	
INVESTIGATION	
REPORT	
DATE	
BY	
FOR	
REMARKS	
1	
1	
Reporter	
1	