

3-NEOCC Artes
 1-The Texas Company NEW MEXICO OIL CONSERVATION COMMISSION
 1-Palco Petroleum Company
 1-Bill Cutler
 1-Oliver Fowler
 1-File

Form C-122
 Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Pictured Cliffs Formation Pictured Cliffs County San Juan
 Initial xx Annual _____ Special _____ Date of Test 3/25/57
 Company PACIFIC NORTHWEST PIPELINE Lease Artes 30-10 Well No. 1-32
 Unit H Sec. 32 Twp. 30N Rge. 10W Purchaser Not connected
 Casing 5-1/2" Wt. 14.07 I.D. _____ Set at 2640' Perf. _____ To _____
 Tubing 1-1/4" Wt. 2.37 I.D. _____ Set at 2517' Perf. 2522' To _____
 Gas Pay: From _____ To _____ L 2522' xG .650 -GL 1639 Bar.Press. 12
 Producing Thru: Casing xx Tubing _____ Type Well _____
 Date of Completion: _____ Packer _____ Reservoir Temp. _____
 Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (11/11/57) (Choke) (11/11/57) Shut 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.	
1.		3/4	397		70	416		603		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.	12.3670		397	.9205	.9608	1.037	4045
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c .3706 (1-e^{-s}) 0.112 P_c 615 P_c 378.225

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.	397	157.61	1796.	3226.	.3213	157.97	289.25		1.717
2.									
3.									
4.									
5.									

Absolute Potential: 7.670 MCFPD; n .85/ 1.583

COMPANY PACIFIC NORTHWEST PIPELINE CORPORATION
 ADDRESS 5114 West Broadway, Farmington, New Mexico
 AGENT and TITLE G. E. Houser - Well Test Engineer
 WITNESSED OK'd for test by The Texas Company and Palco Petroleum Company
 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. of this Report	3
DISTRIBUTION	
Director	1
Asst. Dir. - Operations	1
Asst. Dir. - Engineering	1
Asst. Dir. - Geological	1
Asst. Dir. - Economic	1
Asst. Dir. - Legal	1
Asst. Dir. - Administration	1
Inspector	1
Transporter	1
File	1