

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Aztec PC. Formation Pictured Cliff County San Juan
Initial X Annual _____ Special _____ Date of Test 12-19-60
Company Pubco Petroleum Corporation Lease State Well No. 27
Unit F Sec. 36 Twp. T 30 N Rge. 9 W Purchaser El Paso
Casing 4.5 Wt. 9.5 I.D. _____ Set at 2417 Perf. 2354 To 2380
Tubing 1" Wt. 1.7 I.D. _____ Set at 2377 Perf. 2377 To 2330
Gas Pay: From 2354 To 2380 L 2354 xG 0.640 -GL 1483 Bar.Press. 12.2
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 12-10-60 Packer _____ Reservoir Temp. 98

OBSERVED DATA

Tested Through ((Prover)) (Choke) (Meter) 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	3/4					1000		1000		SI
1.						160		925		1
2.						135		920		2
3.						110	60	915		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.	12.365		122	1.000	1.0077	1.007	1530.787
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 0.640
Specific Gravity Flowing Fluid _____
P_c 1012 P_c² 1,024,144

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.						927 ²			
2.						859.329	164.815		
3.									
4.									
5.									

Absolute Potential: 7.234 MCFPD; n 0.85

COMPANY Pubco Petroleum Corporation

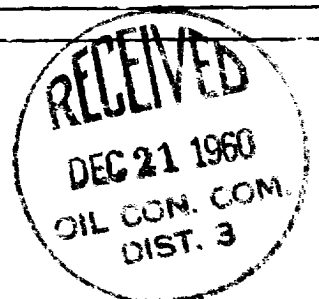
ADDRESS 108 W. Chuska

AGENT and TITLE B. H. Waychoff, Jr. Prod. Engr. *BH Waychoff*

WITNESSED Jack Dunning

COMPANY Pubco Petroleum Corporation

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 .