

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tanque-Piedra-Cliffs Formation Piedra Cliffs County El Paso
Initial 1 Annual _____ Special _____ Date of Test 8-19-58
Company PAN AMERICAN PETROLEUM CO. P. Lease Fred Phillips Well No. 1
Unit C Sec. 10 Twp. 25-N Rge. 3-W Purchaser Pacific Northwest Pipeline Corp.
Casing 5-1/2 Wt. 14 I.D. 5.012 Set at 3704 Perf. 3707 To 3728
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 3493 Perf. 3607 To 3693
Gas Pay: From 3707 To 3728 L 3718 xG 0.69(out) GL 2565 Bar. Press. 12
Producing Thru: Casing _____ Tubing 1 Type Well Gas - Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8-11-58 Packer None Reservoir Temp. 108° F

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	<u>Start in 8 days</u>					<u>1030</u>		<u>1030</u>		
1.	<u>2"</u>	<u>3/4"</u>	<u>379</u>		<u>60(out)</u>	<u>285</u>	<u>60(out)</u>	<u>770</u>	<u>60(out)</u>	<u>3</u>
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.	<u>12.365</u>		<u>372</u>	<u>1.000</u>	<u>0.9325</u>	<u>1.035</u>	<u>3673</u>
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 _____
Specific Gravity Flowing Fluid _____
P_c 1042 P_c² 1,085,764

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.									
2.						<u>611,524</u>	<u>474,240</u>		
3.									
4.									
5.									

Absolute Potential: 7026 MCFPD; n 0.85

COMPANY PAN AMERICAN PETROLEUM CORPORATION

ADDRESS Box 487, Farmington, New Mexico

AGENT and TITLE E. H. Bauer, Jr., Field 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 .

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