

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tapasito-Pictured Cliffs Formation Pictured Cliffs County La Brea
Initial K Annual _____ Special _____ Date of Test 12-5-57
Company PAN AMERICAN PETROLEUM CORP. Lease Fred Phillips Gas Unit Well No. 1
Unit K Sec. 10 Twp. 25N Rge. 3E Purchaser El Paso Natural Gas Co.
Casing 5 1/2" Wt. 14.5 I.D. 5.012 Set at 3860 Perf. 3788 To 3828
Tubing 2-3/8" Wt. 4.71 I.D. 1.995 Set at 3801 Perf. 3795 To 3801
Gas Pay: From 3788 To 3828 L 3808 xG 0.700 -GL 2666 Bar.Press. 12
Producing Thru: Casing K Tubing _____ Type Well Gas - Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 9-25-57 Packer No Reservoir Temp. 108°

OBSERVED DATA

Tested Through (Borehole) (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>3 shut-in days - 10</u>					<u>1013</u>		<u>1012</u>		
1.		<u>1/4"</u>	<u>390</u>		<u>60</u>	<u>420</u>	<u>60</u>	<u>396</u>	<u>60</u>	<u>3 hours</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>402</u>	<u>1.000</u>	<u>0.9258</u>	<u>1.051</u>	<u>4837</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 0.700
P_c 1025 P_c² 1,050.625

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.						<u>186.624</u>	<u>864.001</u>		<u>0.421</u>
2.									
3.									
4.									
5.									

Absolute Potential: 5711 MCFPD; n 0.85COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 487, Farmington, New MexicoAGENT and TITLE R. 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_{c72} = 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
1. <u>Case Number</u> 3 2. <u>Date</u> 3. <u>Time</u> 4. <u>Place</u> 5. <u>Subject</u> 6. <u>Remarks</u> 7. <u>Signature</u> 8. <u>File</u>	9. <u>Remarks</u> 10. <u>Signature</u> 11. <u>File</u>