

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Astos-Pictured Cliffs Formation Pictured Cliffs County San Juan
Initial I Annual _____ Special _____ Date of Test 11-4-57
Company Pan American Petroleum Corp. Lease Chaves Gas Unit "B" Well No. 1
Unit I Sec. 23 Twp. 29N Rge. 10W Purchaser El Paso Natural Gas Company
Casing 34" Wt. 14 I.D. 3.012 Set at 2075 Perf. 1953 To 1992
Tubing 14 Wt. 2.3 I.D. 1.30 Set at 1971 Perf. 1960 To 1971
Gas Pay: From 1953 To 1992 L 1973 xG 0.65 est. GL 1282 Bar.Press. 12
Producing Thru: Casing I Tubing _____ Type Well Gas - Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8-28-57 Packer No Reservoir Temp. 91° F.

OBSERVED DATA

Tested Through (Screens) (Choke) (Screens)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Screens) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1	<u>Start in 7 days</u>					<u>692</u>		<u>692</u>		
2		<u>3/4"</u>	<u>172</u>			<u>179</u>	<u>60</u>	<u>172</u>	<u>60</u>	<u>1</u>
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>12.345</u>		<u>184</u>	<u>1.000</u>	<u>0.9408</u>	<u>1.019</u>	<u>2227</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 0.65 est.
P_c 706 P_c 495.636

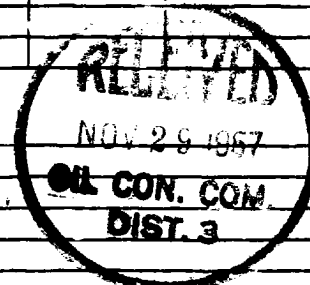
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1						<u>34.481</u>	<u>497.135</u>		
2									
3									
4									
5									

Absolute Potential: 2576 MCFPD; n 0.85COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 487, Farmington, New MexicoAGENT and TITLES E. M. 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} = 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. Copies Received	2
Operator	
Santa Fe	