

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco-Pictured Cliffs Formation Pictured Cliffs County San Juan
Initial I Annual _____ Special _____ Date of Test August 17, 1959
Company Pan American Petroleum Corp. Lease Helton Gas Unit Well No. 1
Unit 0 Sec. 32 Twp. 30N Rge. 9W Purchaser El Paso Natural Gas Company
Casing 4-1/2 Wt. 9.5 I.D. 4.090 Set at 2387 Perf. 2292 To 2346
Tubing 1-1/4 Wt. 2.3 I.D. 1.380 Set at 2299 Perf. 2288 To 2299
Gas Pay: From 2288 To 2346 L 2292 xG 0.65(est) -GL 1490 Bar.Press. 12
Producing Thru: Casing I Tubing _____ Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: August 9, 1959 Packer None Reservoir Temp. 95°F.

OBSERVED DATA

Tested Through (removed) (Choke) (removed) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Shut in 8 days					1020		1020		
1.	2"	3/4"	174		60°(est)	187	60°(est)	174	60°(est)	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.	12.365		186	1.000	0.9608	1.017	2247
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____ (1-e^{-S})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
 P_c 1032 P_c^2 1,065,024

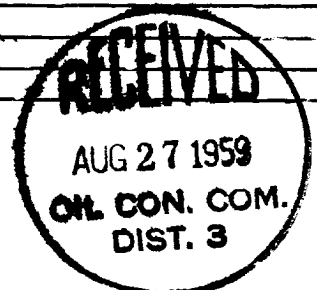
No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2$ (1-e ^{-S})	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	P_w P_c
1.						39,601	1,025,423		
2.									
3.									
4.									
5.									

Absolute Potential: 2321 MCFPD; n 0.85COMPANY Pan American Petroleum CorporationADDRESS Box 487, Farmington, New MexicoAGENT and TITLE R. M. Bauer, Jr., Area Engineer *RMBauer*

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 .

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