

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Astec-Pictured Cliffs Formation Pictured Cliffs County San Juan
(dual with Undesignated Farmington)
Initial _____ Annual _____ Special X Date of Test 11-23-59
Company Pan American Petroleum Corp. Lease Trujillo Gas Unit Well No. 1
Unit M Sec. 21 Twp. 29N Rge. 10W Purchaser M. Paso Natural Gas Company
Casing 5-1/2 Wt. 14 I.D. 4.012 Set at 1060 Perf. 1764 To 1786
Tubing 1-1/2 Wt. 2.9 I.D. 1.610 Set at 1728 Perf. open ended; no perforations To _____
Gas Pay: From 1764 To 1786 L 1728 xG 0.645 -GL 1115 Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Gas-Gas Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 11-12-59 Packer 1725 Reservoir Temp. 90° F

OBSERVED DATA

Tested Through (none) (Choke) (none)

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 11 days					527				
1.	2"	3/4"	90		60° (est.)	94		—		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		102	1.000	0.9445	1.009	1227
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 16.46 (1-e⁻⁵) 0.078

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 527 P_c 290,522

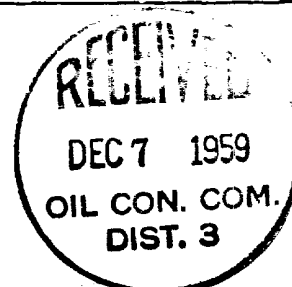
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁵)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	106	11,236	20,196	407,878	31,814	43,090	247,472	208	
2.									
3.									
4.									
5.									

Absolute Potential: 1406 MCFPD; n 0.85COMPANY Pan American Petroleum CorporationADDRESS Box 487, Farmington, New MexicoAGENT and TITLE H. H. Bauer, Jr., Area 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 .

3		
1		
1		<input checked="" type="checkbox"/>