

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Platoro Natural Cliffs Formation Platoro Cliffs County San Juan
Initial X Annual _____ Special _____ Date of Test 12-14-57
Company Pan American Petroleum Corp. Lease Henny Gas Unit Well No. 1
Unit H Sec. 20 Twp. 29N Rge. 10W Purchaser El Paso Natural Gas Company
Casing 5 1/2 Wt. 26 I.D. 5.012 Set at 1819 Perf. 1745 To 1760
Tubing 1.66 Wt. 2.3 I.D. 1-1/4 Set at 1799 Perf. 1749 To 1799
Gas Pay: From 1745 To 1760 L 1752 xG .69 est. -GL 1214 Bar.Press. 12
Producing Thru: Casing X Tubing _____ Type Well Gas - Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 11-23-57 Packer None Reservoir Temp. 89° F.

OBSERVED DATA

Tested Through (Pressure) (Choke) (None) 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 19 days</u>					<u>641</u>		<u>641</u>		
1.		<u>1/4"</u>	<u>197</u>		<u>60° F</u>	<u>202</u>	<u>60° F</u>	<u>181</u>	<u>60° F</u>	<u>3 hrs.</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>12.364</u>		<u>189</u>	<u>1.000</u>	<u>0.9325</u>	<u>1.023</u>	<u>2229</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 0.69 est
 P_c 653 P_c^2 426,409

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>45,795</u>	<u>380,613</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 2483 MCFPD; n 0.85

COMPANY PAN AMERICAN PETROLEUM CORPORATION

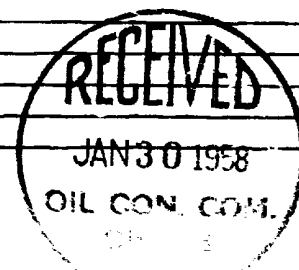
ADDRESS Box 487, Farmington, New Mexico

AGENT and TITLE Field Engineer R.M. Sweeney Jr.

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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