

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool San Juan Formation San Juan County San Juan
 Initial 1 Annual _____ Special _____ Date of Test May 8, 1964
 Company Pan American Petroleum Corp. Lease Pan American Federal "G" Well No. 1
 Unit A Sec. 10 Twp. 10-N Rge. 13-W Purchaser _____
 Casing 4-1/8" Wt. 16.50 I.D. 4.000 Set at 6400' Perf. 6404-6430' To 6404-6430'/6430-41'
 Tubing 2-3/4" Wt. 4.70 I.D. 1.900 Set at 6430' Perf. Open To 6430'
 Gas Pay: From 6404' To 6441' L 6430' xG .700 -GL 4630' Bar.Press. 12
 Producing Thru: Casing _____ Tubing 1 Type Well Single
 Date of Completion: May 1, 1964 Packer None Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. _____

OBSERVED DATA

Tested Through (None) (Choke) (None) Type Taps Flange

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.	
1.	7 days					1900		1900		
1.	1 days	.700	213			213	60° sat.	640	60° sat.	3 hour
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor Ft	Gravity Factor Fg	Compress. Factor Fpv	Rate of Flow Q-MCFPD @ 15.025 psia
1.	11.500		213	1.000	.955	1.000	213
2.							
3.							
4.							
5.							

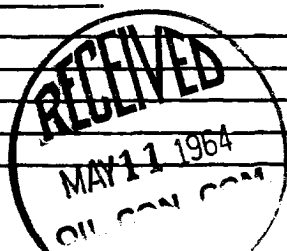
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 F_c _____ (1-e^{-S})
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 2000 P_c² 4,000,000

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.						430,000	3,500,000		
2.									
3.									
4.									
5.									

Absolute Potential: 2000 MCFPD; n .75
 COMPANY PAN AMERICAN PETROLEUM CORPORATION
 ADDRESS Box 400, Farmington, New Mexico
 AGENT and TITLE Fred L. Roberts, District Engineer
 WITNESSED By: ORIGINAL SIGNED BY
 COMPANY F. W. Foss

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 .