

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan
Initial x Annual _____ Special _____ Date of Test March 6, 1962
Company Pan American Petroleum Corp. Leased Gallegos Canyon Unit Well No. 124
Unit D Sec. 35 Twp. 28N Rge. 12E Purchaser None
Casing 4 1/2" Wt. 30.5 I.D. 3.995 Set at 6385 Perf. 6218 To 6224
Tubing 2 3/8" Wt. 4.7 I.D. 1.995 Set at 6238 Perf. open ended To _____
Gas Pay: From 6218 To 6224 L 6224 xG 0.700 est. GL 4357 Bar.Press. 12
Producing Thru: Casing x Tubing _____ Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion February 21, 1962 Packer None Reservoir Temp. _____

OBSERVED DATA

Tested Through (Packer) (Choke) (None)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Packer) (Line) Size	(Choke) (Restrictor) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	7 Days					2071		2081		
1.	2"	3/4"	630		60°F. est.	977	60°F. est.	676		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.	12.3650		632	1.000	.9258	1.082	7828
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 2093 P_c² 4,380,649

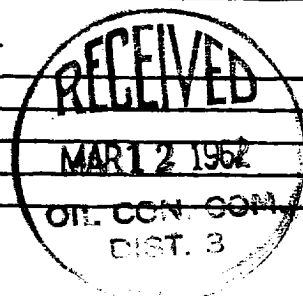
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w / P _c
1.	989					978,121	3,482,528		
2.									
3.									
4.									
5.									

Absolute Potential: 9458 MCFPD; n .75COMPANY Pan American Petroleum CorporationADDRESS P. O. Box 480, Farmington, New MexicoAGENT and TITLE E. H. Foell, Petroleum 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} = Supercompressability 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 .