

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Basin Dakota Formation Dakota County Rio Arriba
Initial X Annual _____ Special _____ Date of Test March 27, 1961
Company Pan American Petroleum Corporation Lease Jicarilla Contract 155 Well No. 12
Unit X Sec. 32 Twp. 26N Rge. 5W Purchaser El Paso Natural Gas Company
Casing 4-1/2 Wt. 9.5 I.D. 4.090 Set at 7248 Perf. 6912 To 6922
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6925 Perf. open ended - no perfor To _____
Gas Pay: From 6912 To 6922 L 6925 xG 700 (est) -GL 484.8 Bar. Press. 12
Producing Thru: Casing _____ Tubing X Type Well Single gas
Date of Completion: 3-13-61 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 156° F

OBSERVED DATA

Tested Through (HOLE) (Choke) (HOLE)

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.	
1.	2"	1 1/4"	145			2293	60 (est)	2293	60 (est)	3 hrs.
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.	12.345		157	1.000	0.9498	1.019	1091
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2305 P_c 5,313.025

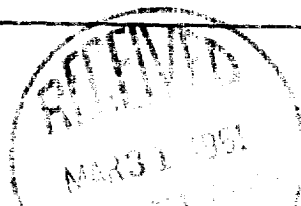
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w / P _c
1.						227,529	5,085,496		
2.									
3.									
4.									
5.									

Absolute Potential: 1891 MCFPD; n 0.75COMPANY Pan American Petroleum CorporationADDRESS Box 480, Farmington, New MexicoAGENT and TITLE R. H. Bauer, Jr., Senior 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 .