

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Pictured Cliffs County San Juan
Initial x Annual _____ Special _____ Date of Test 2-12-59
Company Pan American Petroleum Corp. Lease State of New Mexico Gas Unit NY Well No. 1
Unit L Sec. 36 Twp. 29N Rge. 9W Purchaser El Paso Natural Gas Company
Casing 4-1/2 Wt. 9.5 I.D. 4.090 Set at 2155 Perf. 2081 To 2115
Tubing 1.66 Wt. 2.3 I.D. 1-1/4 Set at 2094 Perf. 2084 To 2094
Gas Pay: From 2081 To 2115 L 2081 xG 0.69(est) -GL 1436 Bar.Press. 12
Producing Thru: Casing x Tubing _____ Type Well single - gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 2-2-59 Packer none Reservoir Temp. 91°

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 10 days					857		857		
1.	2"	3/4"	167		60°(est)	180	60°(est)	167	60°(est)	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		179	1.000	0.9325	1.020	2105
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ c.f./bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 869 P_c² 755,161

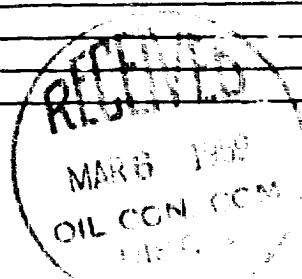
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.						36,864	718,297		
2.									
3.									
4.									
5.									

Absolute Potential: 2196 MCFPD; n 0.85COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 487, Farmington, New MexicoAGENT and TITLE R. M. Dwyer, Jr., Field 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 .

OIL CONSERVATION COMMISSION	
REVENUE OFFICE	
Name of well	
County	
Section	
Township	
Range	
Latitude	
Longitude	
Operator	
Inspector	
File	