

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 San Juan

Initial X Annual _____ Special _____ Date of Test 3-30-64

Company PAN AMERICAN PETROLEUM CORP. Lease Sullivan Gas Unit "C" Well No. 1

Unit N Sec. 28 Twp. 29N Rge. 10W Purchaser _____

Casing 4-1/2 Wt. 10.5 I.D. 4.052 Set at 6412 Perf. 6200-10/6261 To 6280/6349-59

Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6200 Perf. Open To Ended

Gas Pay: From 6200 To 6359 L 6279 xG .700 -CL 4395 Bar.Press. 12

Producing Thru: Casing _____ Tubing X Type Well Single

Date of Completion: 3-23-64 Packer None Single-Bradenhead-G. P. or G.O. Dual _____

Reservoir Temp. _____

OBSERVED DATA

Tested Through (FLOWER) (Choke) (FLOWER) Type Taps Flange

No.	Flow Data				Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h _w	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	7 days				2066		2078		
1.	2-inch	.750	238		238	600 est.	1852	600 est.	3 hrs.
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		250	1.000	.9258	1.030	2948
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/ybl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c _____ (1-e^{-S})

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P₁ 2090 P₂ 4,368,100

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 _t ² -P _w ²	Cal. F _w	P _w /P _c
1.						1,132,096	3,236,004		
2.									
3.									
4.									
5.									

Absolute Potential: 3491 MCFPD; L .75

COMPANY PAN AMERICAN PETROLEUM CORPORATION

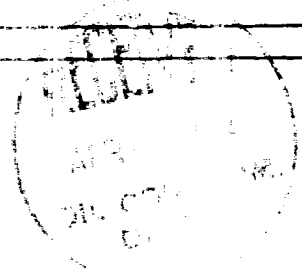
ADDRESS Box 480, Farmington, New Mexico

AGENT and TITLE V. L. Nabors, District Engineer

WITNESSED By J. W. Felt

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 .