

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 I Annual _____ Special _____ Date of Test Sept. 6, 1963
Company Pan American Petroleum Corporation Lease Pan Am. Federal "C" Well No. 1
Unit K Sec. 19 Twp. 30N Rge. 12W Purchaser _____
Casing 1-1/2 Wt. 10.5 I.D. _____ Set at 6618 Perf. 6505 To 6515
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6502 Perf. _____ To _____
Gas Pay: From 6405 To 6515 L 6510 xG .70 Est. -GL 4557 Bar.Press. 12
Producing Thru: Casing _____ Tubing I Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: Aug. 28, 1963 Packer None Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Pressure) (Line) Size	(Choke) (Pressure) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	9 Days					2097		2101		
1.	2"	.750	292			365		705		3 Hours
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.	12.3650		305	1.0000	.9258	1.097	3609
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e⁻⁸)

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2113 P_c² 4,464,769

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						512,696	3,992,113		1.1297
2.									
3.									
4.									
5.									

Absolute Potential: 3954 MCFPD; n 0.75

COMPANY PAN AMERICAN PETROLEUM CORPORATION

ADDRESS BOX 480 FARMINGTON, NEW MEXICO

AGENT and TITLE F. L. NABORS, DISTRICT PETROLEUM ENGINEER, BY F. W. FOELL

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 .