

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Dakota Formation Dakota County San Juan
 Initial X Annual _____ Special _____ Date of Test July 8, 1959
 Company Pan American Petroleum Corp. Lease Miller Gas Unit Well No. 1
 Unit H Sec. 20 Twp. 30N Rge. 13W Purchaser _____
 Casing 5-1/2" Wt. 15.5 I.D. 4.990 Set at 6228 Perf. 6056 To 6100
 Tubing 2" Wt. 4.7 I.D. 1.995 Set at 6049 Perf. Open ended; no perforations To _____
 Gas Pay: From 6056 To 6100 L 6049 xG 0.70 (est) GL 4234 Bar.Press. 12
 Producing Thru: Casing _____ Tubing X Type Well Gas - single
 Date of Completion: June 30, 1959 Packer None Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. 139°

OBSERVED DATA

Tested Through (PROVER) (Choke) (METER) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(PROVER) (Line) Size	(Choke) (SIZE) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Shut in 8 days					1921		1908		
1.	2"	3/4"	205		60 (est)	225	60 (est)	690	60 (est)	3 hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor Ft	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		217	1.000	0.9258	1.026	2549
2.							
3.							
4.							
5.							

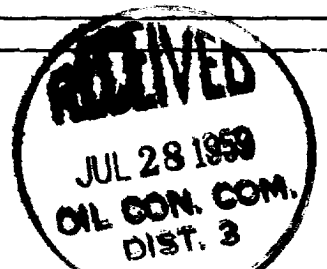
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 F_c _____ (1-e^{-s}) 0.265 P_c 1933 P_c² 3,736,489

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.						430,244	3,251,997		
2.									
3.									
4.									
5.									

Absolute Potential: 2799 MCFPD; n 0.75
 COMPANY Pan American Petroleum Corporation
 ADDRESS Box 487, Farmington, New Mexico
 AGENT and TITLE R. H. Bauer, Jr., Area Engineer *RHBauer, Jr.*
 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} = Supercompressibility 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 .

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