

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Angel Peak Dakota Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test July 16, 1959
Company Pan American Petroleum Corporation Lease C. A. Muddam "B" Well No. 2
Unit E Sec. 28 Twp. 27N Rge. 10W Purchaser _____
Casing 7 Wt. 23 I.D. 6.366 Set at 6309 Perf. 6292 To 6399
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6261 Perf. Open ended; no perforations To _____
Gas Pay: From 6292 To 6399 L 6261 xG 0.70 (est.) GL 4383 Bar. Press. 12
Producing Thru: Casing _____ Tubing X Type Well Dual - Gas & Oil
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: July 7, 1959 Packer 6230 Reservoir Temp. 116°F

OBSERVED DATA

Tested Through (Packer) (Choke) (None) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Packer) (Line) Size	(Choke) (Packer) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Shut in 9 days					1057				
1.	2"	3/4"	207		60° (est)	246	60° (est)	(Packer)		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.	12.365		219	1.000	0.9248	1.025	2970
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 9.403 (1-e^{-s}) 0.273

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 3949 P_c 3,876,961

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.	298	88,804	24.143	583.051	199.791	885.959	3,451,006	475	
2.									
3.									
4.									
5.									

Absolute Potential: 2400 MCFPD; n 0.75COMPANY Pan American Petroleum CorporationADDRESS Box 487, Farmington, New MexicoAGENT and TITLE R. M. Bower, Jr., Area Engineer *RMB*

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		
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