

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 ArribaInitial I Annual _____ Special _____ Date of Test November 1, 1960Company Pan American Petroleum Corp. Lease Jicarilla Contract 147 Well No. 2Unit 6 Sec. 5 Twp. 23N Rge. 2W Purchaser Southern Union Gas CompanyCasing 2-1/2 Wt. 14 I.D. 1.612 Set at 7429 Perf. 7074 To 7042Tubing 2-3/8 Wt. 4.7 I.D. 1.993 Set at 7045 Perf. Open ended - no perforations To _____Gas Pay: From 7074 To 7042 L 7045 xG 0.700 (Est.) L 4046 Bar.Press. 12Producing Thru: Casing _____ Tubing I Type Well Single Gas

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 10/20/60 Packer None Reservoir Temp. 160° F

OBSERVED DATA

Tested Through (20000) (Choke) (20000) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Pressure) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>12 days</u>					<u>2352</u>	<u>60 (Est.)</u>	<u>2352</u>	<u>60 (Est.)</u>	
1.	<u>2-inch</u>	<u>3/4-inch</u>	<u>245</u>			<u>190</u>		<u>205</u>		<u>3 hr.</u>
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.	<u>12.369</u>		<u>197</u>	<u>1.000</u>	<u>0.9390</u>	<u>1.019</u>	<u>1431</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

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

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c 2344 P_c 5,502.496

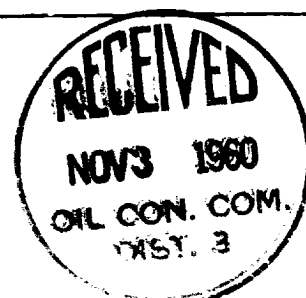
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.						<u>207,209</u>	<u>5,321,207</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 1099 MCFPD; n 0.75COMPANY Pan American Petroleum CorporationADDRESS Box 100, Farmington, New MexicoAGENT and TITLE E. E. Baker, Jr., Area Engineer *RB Baker 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} = 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 .

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