

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco-Pictured Formation Pictured Cliffs County Rio ArribaInitial X Annual _____ Special _____ Date of Test 8-21-58Company PAN AMERICAN PETROLEUM CORP. Lease T. D. BURNS "A" Well No. 1Unit 0 Sec. 31 Twp. 24N Rge. 2W Purchaser Pacific Northwest Pipelining Corp.Casing 5-1/2 Wt. 246 I.D. 5.012 Set at 2779 Perf. 2602 To 2726Tubing 2-3/8 Wt. 4.77 I.D. 1.975 Set at 2666 Perf. 2659 To 2666Gas Pay: From 2602 To 2726 L 2699 xG 0.69(amt) GL 1862 Bar.Press. 12Producing Thru: Casing _____ Tubing X Type Well Gas - Single

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

Date of Completion: 8-14-58 Packer None Reservoir Temp. 99° F. (amt)

OBSERVED DATA

Tested Through (Pressure) (Choke) (Manometer) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(<u>Pressure</u>) (Line) Size	(<u>Choke</u>) (<u>Orifice</u>) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>Shut in 7 days</u>					<u>992</u>		<u>992</u>		
1.	<u>2-inch</u>	<u>3/4-inch</u>	<u>367</u>		<u>60 (amt)</u>	<u>992</u>	<u>60 (amt)</u>	<u>992</u>	<u>60 (amt)</u>	<u>2</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>12.365</u>		<u>379</u>	<u>1.000</u>	<u>0.9325</u>	<u>1.046</u>	<u>1571</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 992 P_c² 984,064

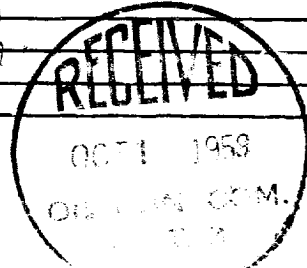
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						<u>638,896</u>	<u>285,168</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 13,096 MCFPD; n 0.85COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS BOX 487, FARMINGTON, NEW MEXICOAGENT and TITLE H. H. BAUER, JR., FIELD ENGINEER

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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