

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basia Babata Formation Babata County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 8-20-63
Company PAN AMERICAN PETROLEUM CORP. Lease Jicarilla Apache 102 Well No. 10
Unit NE/4 Sec. 4 Twp. 26N Rge. 4W Purchaser El Paso Natural Gas Co.
Casing 4-1/2 Wt. 10.5 I.D. 4.052 Set at 8375 Perf. 8150-818 To 8285-8345
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 8237 Perf. - To -
Gas Pay: From 8150 To 8345 L 8248 xG 70 sat GL 3774 Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8-12-63 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Pressure) (Choke) (Pressure) Type Taps Flange

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Pressure) (Line) Size	(Choke) (Pressure) Size	Press. psig	Diff. h_w	Temp. $^{\circ}\text{F}$.	Press. psig	Temp. $^{\circ}\text{F}$.	Press. psig	Temp. $^{\circ}\text{F}$.	
SI	9 days					2398		2400		
1.	2 days	.750	102			147		648		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.	12.3650		114	1.0000	.9138	1.014	1323
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 2612 P_c^2 5,817,744

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.						435,600	5,382,144		
2.									
3.									
4.									
5.									

Absolute Potential: 1403 MCFPD; n 0.75

COMPANY PAN AMERICAN PETROLEUM CORPORATION

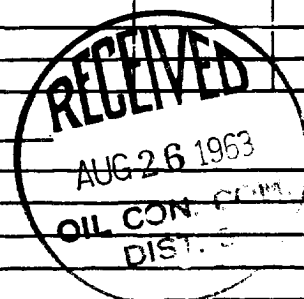
ADDRESS Box 280, Farmington, New Mexico

AGENT and TITLE F. W. Foell, Petroleum Engineer

WITNESSED _____

COMPANY _____

ORIGINAL SIGNED BY
F. W. Foell



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 .