

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool El Paso-Huachuera Formation Huachuera County San Juan
Initial X Annual _____ Special _____ Date of Test 10-28-57
Company Pan American Petroleum Corp. Lease U.S.A. Standard "A" Well No. 1
Unit A Sec. 29 Twp. 31N Rge. 12W Purchaser El Paso Natural Gas Company
Casing 7" Wt. 20.8 I.D. 6.436 Set at 5000 Perf. 4724 To 4940
Tubing 2-3/8 Wt. 4.7 I.D. 1.993 Set at 4920 Perf. 4904 To 4910
Gas Pay: From 4724 To 4940 L 4031 xG 0.69 est. -GL 3333 Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Gas - Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 9-27-57 Packer No Reservoir Temp. 140.2 F (est.)

OBSERVED DATA

Tested Through (Packer) (Choke) (Water) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Line) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>Shut in 11 days</u>					<u>1045</u>	<u>60</u>	<u>1045</u>	<u>60</u>	
1.		<u>3/4"</u>	<u>290</u>			<u>290</u>	<u>60</u>	<u>630</u>	<u>60</u>	<u>3</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>12.3690</u>		<u>302</u>	<u>1.00</u>	<u>0.9325</u>	<u>1.036</u>	<u>3608</u>
2.							
3.							
4.							
5.							

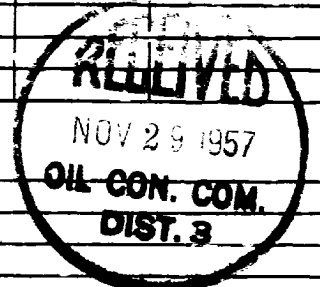
PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid 0.69 est.
P_c 2057 P_c 2,117,249

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>422,500</u>	<u>694,749</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 5352 MCFPD; n 0.75
COMPANY PAN AMERICAN PETROLEUM CORPORATION
ADDRESS Box 407, Farmington, New Mexico
AGENT 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 .

OIL CONSERVATION COMMISSION	
AZTEC DISTRICT OFFICE	
No. Copies Received	3
Operator	
Santa Fe	✓