

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Antero Natural Gas Formation Antero Natural Gas County San Juan
 Initial I Annual _____ Special _____ Date of Test 11-1-57
 Company Pan American Petroleum Corp. Lease State Gas Unit "D" Well No. 1
 Unit 1 Sec. 2 Twp. 23N Rge. 10W Purchaser El Paso Natural Gas Company
 Casing 2 1/2 Wt. 24 I.D. 1.011 Set at 2077 Perf. 2042 To 2092
 Tubing 2 1/2 Wt. 2.3 I.D. 1.30 Set at 2077 Perf. 2042 To 2077
 Gas Pay: From 2042 To 2092 L 2077 xG 0.45 out-GL 2010 Bar.Press. 22
 Producing Thru: Casing I Tubing _____ Type Well One - Single
 Date of Completion: 10-28-57 Packer No Single-Bradenhead-G. G. or G.O. Dual
 Reservoir Temp. 92° F.

OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>2 1/2 in 7 cups</u>					<u>200</u>		<u>200</u>		
1.		<u>2 1/2"</u>	<u>22</u>			<u>72</u>	<u>60</u>	<u>22</u>	<u>60</u>	<u>1</u>
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

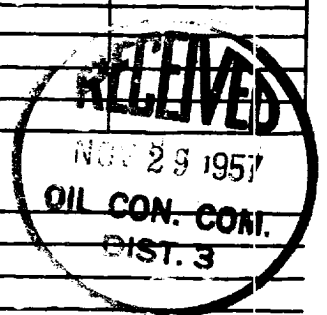
No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>12.500</u>		<u>49</u>	<u>1.00</u>	<u>0.702</u>	<u>1.00</u>	<u>22</u>
2.							
3.							
4.							
5.							

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 412 P_w 402.24

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>400</u>	<u>412²-400²</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 207 MCFPD: n 0.07
 COMPANY PAN AMERICAN PETROLEUM CORPORATION
 ADDRESS Box 407, Farmington, New Mexico
 AGENT and TITLE R. A. Bauer, 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} = Supercompressibility 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	3
DATE	
OPERATOR	
WELL NO.	
WELL LOCATION	
WELL TYPE	
WELL STATUS	
WELL DEPTH	
WELL DIAMETER	
WELL CEMENT	
WELL LOG	
WELL RECORD	
WELL PLAN	
WELL LOGS	