

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco-Hosoverdo Formation Hosoverdo County San Juan
Initial I Annual _____ Special _____ Date of Test 12-14-57
Company Pan American Petroleum Corp. Lease Snyder Gas Unit Well No. 1
Unit 6 Sec. 19 Twp. 27N Rge. 9W Purchaser El Paso Natural Gas Company
Casing 7-5/8" Wt. 24.6 I.D. 7.025 Set at 2267 Perf. 2677 To 4322
5-1/2" Wt. 17.5 I.D. 5.012 Set at 4322 Perf. 4377 To 4377
Tubing 2-3/8" Wt. 4.7 I.D. 2.00 Set at 4377 Perf. 4377 To 4377
Gas Pay: From 2677 To 4322 L 4377 xG 0.69 ext. GL 2962 Bar.Press. 12
Producing Thru: Casing _____ Tubing I Type Well Gas - Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 11-12-57 Packer None Reservoir Temp. 155° F

OBSERVED DATA

Tested Through (None) (Choke) (None) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (None) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	3-in-In 31 days					1072		1062		
1.		3/4-in	221		60° ext.	221	60° ext.	756	60° ext.	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.	12.363		233	1.000	0.9325	1.027	2759
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 ext.
P_c 1000 P_c 1,175,000

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.						209,224	903,224		
2.									
3.									
4.									
5.									

Absolute Potential: 4,624 MCFPD; n 0.75COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 487, Farmington, New MexicoAGENT and TITLE E. A. Bauer, Jr. RMBauer 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 600° F.

P_{C72} = 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		
NINTH DISTRICT OFFICE		
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DEPARTMENT		
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