

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Alamo-Mesa Verde Formation Mesa Verde County San Juan
Initial X Annual _____ Special _____ Date of Test 2-16-58
Company Pan American Petroleum Corp. Lease State Gas Unit "C" Well No. 1
Unit H Sec. 12 Twp. 29N Rge. 9W Purchaser El Paso Natural Gas Company
Casing 7-5/8 Wt. 24 I.D. 7.025" Set at 2621-4859 Perf. 4206 To 4785
Tubing 2-3/8 Wt. 4.75 I.D. 1.995 Set at 4830 Perf. 4789 To 4799
Gas Pay: From 4206 To 4785 L 4496 xG 0.69(est) -GL _____ Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Gas-Single
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: 12-20-57 Packer No Reservoir Temp. 98° F

OBSERVED DATA

Tested Through (Prover) (Choke) (4860) 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	3 1/2 In	60 Days				1090		1093		
1.		3/4	353		51X(est)	353	60 (est)	771	60 (est)	3
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	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		363	1.006	0.9383	1.063	4.398
2.							
3.							
4.							
5.							

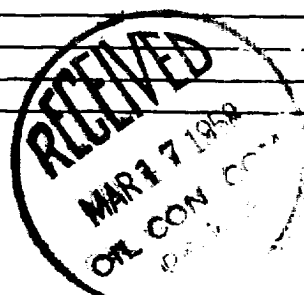
PRESSURE CALCULATIONS

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 1,110 P_c² 1,232,100

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.						613,089	619,011		
2.									
3.									
4.									
5.									

Absolute Potential: 7,371 MCFPD: n 0.75
COMPANY PAN AMERICAN PETROLEUM CORPORATION
ADDRESS BOX 487, FARMINGTON, NEW MEXICO
AGENT and TITLE R. M. BAUGH, 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	
By		
Date		
Operator		
Well No.	1	
Section		
State		
U. S. G. O.	1	
Transmitted		
File	1	✓