

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool San Juan Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test 2-3-63
Company PAN AMERICAN PETROLEUM CORPORATION Lease Howard Gas Unit Well No. 1
Unit P Sec. 25 Twp. 30-N Rge. 12-W Purchaser _____
Casing 1-1/2 Wt. 20.5 I.D. 4.052 Set at 6500 Perf. 6360 To 6360
Tubing 2-3/8 Wt. 4.7 I.D. 1.975 Set at 6430 Perf. _____ To _____
Gas Pay: From 6360 To 6360 L 6376 xG 70 Est. -GL 4463 Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 1-31-63 Packer None Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Flange

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.	
1.	8 Days					2080		2076		3 Hours
2.	2"	0.750	80			109	60° Est.	298		
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.	12.3610		92	1.0000	.9236	1.012	1067
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 2092 P_c² 4,376,644

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 / F _c
1.						94,100			
2.									
3.									
4.									
5.									

Absolute Potential: 1089 MCFPD; n 0.75

COMPANY PAN AMERICAN PETROLEUM CORPORATION

ADDRESS BOX 480, FARMINGTON, NEW MEXICO

AGENT and TITLE P. W. FOELL PETROLEUM ENGINEER

WITNESSED

COMPANY

FEB 12 1963

OIL CON. COM.

DIST. 3

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 .

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OIL CONSERVATION COMMISSION	
ALBUQUERQUE OFFICE	
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