

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco-Mesa Verde Formation Mesa Verde County San Juan
Initial X Annual _____ Special _____ Date of Test 12-10-58
Company PAN AMERICAN PETROLEUM CORP. Lease Gerk Gas Unit Well No. 1
Unit B Sec. 30 Twp. 29-N Rge. 9-W Purchaser El Paso Natural Gas Company
7-5/8 24 & 26.4 7.023 & 6.969 2379
Casing 5-1/2 Wt. 14 I.D. 5.012 Set at 2292-4524 Perf. 3824 To 4464
Tubing 2-3/8 Wt. 4.7 I.D. 1.993 Set at 4407 Perf. 4401 To 4407
Gas Pay: From 3824 To 4464 L 4144 xG 0.69(est) GL 2839 Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Gas - single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 12-3-58 Packer none Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~XXXXXXXX~~ (Choke) ~~XXXXXXXX~~

Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	XXXXXXXX (Line) Size	(Choke) XXXXXXXX Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Start in 7 days					1004		1004		
1.	2"	3/4"	235		60(est)	235	60(est)	483	50(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		247	1.000	0.9323	1.028	2928
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 1014 P_c² 1,032,256

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.						247,009	785,247		
2.									
3.									
4.									
5.									

Absolute Potential: 3596 MCFPD; n 0.75COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 467, Farmington, New MexicoAGENT and TITLE E. M. Bauer, Jr., Field Engineer

WITNESSED _____

COMPANY _____

REMARKS

JAN 23 1959

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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 .

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