

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco-Pictured Cliffs Formation Pictured Cliffs County San Juan
Initial x Annual _____ Special _____ Date of Test April 6, 1959
Company Pan American Petroleum Corp. Lease Ulibarri Gas Unit Well No. 2
Unit 0 Sec. 35 Twp. 30N Rge. 9W Purchaser El Paso Natural Gas Company
Casing 4-1/2" Wt. 9.5 I.D. 4.090 Set at 2398 Perf. 2306 To 2344
Tubing 1.66 Wt. 2.3 I.D. 1.380 Set at 2332 Perf. 2322 To 2332
Gas Pay: From 2306 To 2344 L 2306 xG 0.65 (est) GL 1499 Bar.Press. 12
Producing Thru: Casing x Tubing _____ Type Well Single Gas
Date of Completion: 3-26-59 Packer none Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 94° F

OBSERVED DATA

Tested Through ~~xBoomer~~ (Choke) ~~xBoomer~~

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	3 in	11 days								
1.	2"	3/4"	230		60° (est)	1073		1073		
2.						230	60° (est)	230	60° (est)	3 hours
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		232	1.000	0.9408	1.022	2695
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 1085 P_c² 1,177,225

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.	232					53,864	1,115,661		
2.									
3.									
4.									
5.									

Absolute Potential: 2314 MCFPD; n 0.85COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 487, Farmington, New MexicoAGENT and TITLE E. H. Bauer, 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 .

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