

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco-Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Initial x Annual _____ Special _____ Date of Test 12-17-58
Company PAN AMERICAN PETROLEUM CORP. Lease Jicarilla Contract 155 Well No. 10
Unit N Sec. 30 Twp. 26-N Rge. 5-W Purchaser El Paso Natural Gas Company
Casing 4-1/2" Wt. 9.5 I.D. 4.090 Set at 2974 Perf. 2923 To 2932
Tubing 2-3/8" Wt. 4.7 I.D. 1.995 Set at 2923 Perf. 2917 To 2923
Gas Pay: From 2923 To 2932 L 2927 xG 0.69(out) -GL 3020 Bar.Press. 12
Producing Thru: Casing _____ Tubing x Type Well Gas - single
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: 12-7-58 Packer none Reservoir Temp. 100° F

OBSERVED DATA

Tested Through 2 1/2" (Choke) 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	Shut in 10 days								
1.	2"	3/4"	156		60(out)	136	60(out)	383	60(out)
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		168	1.000	0.9325	1.018	1972
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 972 P_c² 944,784

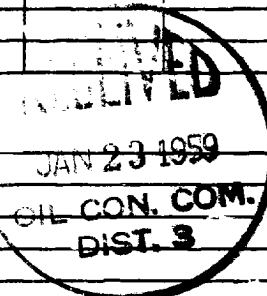
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						156,025	788,759		
2.									
3.									
4.									
5.									

Absolute Potential: 2299 MCFPD; n 0.85COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 457, Farmington, New MexicoAGENT and TITLE H. M. Bloor, 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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