

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 2-2-59
Company Pan American Petroleum Corp. Lease Jicarilla Contract 148 Well No. 12
Unit A Sec. 24 Twp. 25N Rge. 9W Purchaser Pacific Northwest Pipeline Co.
Casing 4-1/2" Wt. 7.5# I.D. 4.090 Set at 3209 Perf. 3134 To 3162
Tubing 2-3/8" Wt. 4.7 I.D. 2.995 Set at 3131 Perf. 3124 To 3131
Gas Pay: From 3134 To 3162 L 3134 xG 0.68(est)-GL 2131 Bar.Press. 12
Producing Thru: Casing x Tubing _____ Type Well Single gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 2-26-59 Packer none Reservoir Temp. 102° F

OBSERVED DATA

Tested Through ~~pressure~~ (Choke) ~~pressure~~ Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	pressure (Line) Size	(Choke) pressure Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Shut in	7 days				922		922		
1.	2"	3/4"	342		60°(est)	164	60°(est)	342	60°(est)	3 hours
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.	12.365		354	1.000	0.9393	1.042	4214
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 934 P_c² 872,356

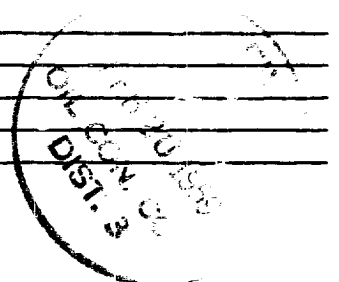
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						226,576	645,780		
2.									
3.									
4.									
5.									

Absolute Potential: 5533 MCFPD; n 0.85COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 147, Farmington, New MexicoAGENT and TITLE E. M. Bauer, Jr., Field Engineer RMBauer, Jr.

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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