

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Elmore-Pictured Cliffs Formation Pictured Cliffs County San Juan
Initial I Annual 1 Special 1 Date of Test 8-21-57
Company PAN AMERICAN PETROLEUM CORP. Lease A. L. Elliott "C" Well No. 2
Unit E Sec. 16 Twp. 20N Rge. 9W Purchaser Shut-In
Casing 4 1/2 Wt. 24.90 I.D. 1.92 Set at 2649 Perf. 2520 To 2972
Tubing 1 3/4 Wt. 2.1 I.D. 1.390 Set at 2574 Perf. 2520 To 2574
Gas Pay: From 2520 To 2972 L 2016 xG .45 -GL 1495 Bar.Press. 12,000
Producing Thru: Casing I Tubing 1 Type Well Single - Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8-21-57 Packer 1 Reservoir Temp. 96° F

OBSERVED DATA

Tested Through (None) (Choke) (None) Type Taps 1

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>Shut-In</u>	<u>21 days</u>				<u>904</u>		<u>903</u>		
1.		<u>1/4</u>	<u>245</u>			<u>200</u>	<u>60</u>	<u>245</u>	<u>60</u>	<u>1</u>
2.										
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.	<u>12.345</u>		<u>275</u>	<u>1.000</u>	<u>.940</u>	<u>1.000</u>	<u>2093</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

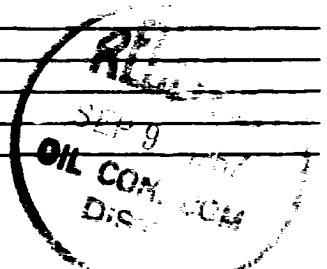
Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c (1-e^{-s})

Specific Gravity Separator Gas
Specific Gravity Flowing Fluid .45 sat.
P_c 904 P_c² 904,016

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.						<u>97,344</u>	<u>804,672</u>		<u>.913</u>
2.									
3.									
4.									
5.									

Absolute Potential: 3700 MCFPD; n .45
COMPANY PAN AMERICAN PETROLEUM CORPORATION
ADDRESS Box 407, Farmington, New Mexico
AGENT and TITLE E. H. Bauer, Jr., Field Engineer RM Bauer, 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} = 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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