

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool South Blanco-Motored Oilfield Location Motored Oilfield County San Juan
Initial I Annual Special Date of Test 6-25-57
Company Pan American Petroleum Corp. Lease Jaramah Well No. 1
Unit H Sec. 36 Twp. 28N Rge. 9E Purchaser None
Casing 5-1/2" Wt. 16.4 I.D. 5.012 Set at 2150 Perf. 2057 To 2096
Tubing 1-1/4" Wt. 2.34 I.D. 2.000 Set at 2057 Perf. 2051 To 2055
Gas Pay: From 2051 To 2096 L 2078 xG .65 sat. -GL 1351 Bar.Press. 12,000
Producing Thru: Casing I Tubing Type Well Single Well
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 5-17-57 Packer Reservoir Temp. 91.0 F

OBSERVED DATA

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

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.	
SI	<u>30 in</u>	<u>39 days</u>						
1.		<u>0.75</u>	<u>272</u>		<u>60</u>			<u>3</u>
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.	<u>12,350</u>		<u>284</u>	<u>1.000</u>	<u>0.9608</u>	<u>1.000</u>	<u>7.60</u>
2.							
3.							
4.							
5.							

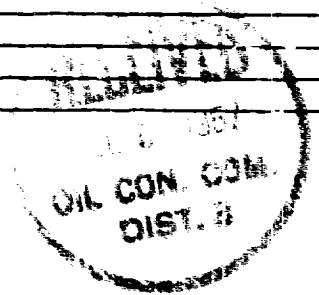
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c (1-e^{-s})
Specific Gravity Separator Gas .65 sat.
Specific Gravity Flowing Fluid
P_c 843 P_c² 710,649

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>80,089</u>	<u>630,560</u>		<u>0.397</u>
2.									
3.									
4.									
5.									

Absolute Potential: 3,809 MCFPD; n .85
COMPANY PAN AMERICAN PETROLEUM CORPORATION
ADDRESS Box 487, Farmington, New Mexico
AGENT and TITLE R. A. Bauer, Jr., Field Engineer
WITNESSED R. A. Bauer, Jr.
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 .

OIL CONSERVATION COMMISSION	
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