NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Dakota County San Juan

Initial X Annual ____ Special ____ Date of Test ____

Company Pan American Petroleum Corp. Lease O. H. Randal "B" Well No. 1

Unit M Sec. 10 Twp. 28N Rge. 11W Purchaser - -

Casing 7" Wt. 23 I.D. 6.366 Set at 6447 Perf. 6250 To 6400

Tubing 2-3/8" Wt. 4.7 I.D. 1.995 Set at 6382 Perf. 6276 To 6382

Gas Pay: From 6250 To 6400 L 6276 xG 0.70 (est) GL 4393 Bar.Press. 12

Producing Thru: Casing ____ Tubing X Type Well Dual - Gas & Oil
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 2-13-59 Packer 6184 Reservoir Temp. 179°

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps ____

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI	Shut in 11 days					1772		-		
1.	2"	3/4"	180		60° (est)	180	60°(est)	-		3 hours
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.	12.365		192	1.000	0.9258	1.016	1535
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl.
Gravity of Liquid Hydrocarbons ____ deg.
F_c 9.402 $(1-e^{-s})$ 0.273

Specific Gravity Separator Gas ____
Specific Gravity Flowing Fluid ____
P_c 1771 P_c^2 3,136,441

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	172	29,584	14.432	208,283	96,661	86,443	3,049,998		
2.									
3.									
4.									
5.									

Absolute Potential: 1967 MCFPD; n 0.75

COMPANY PAN AMERICAN PETROLEUM CORPORATION
ADDRESS Box 487, Farmington, New Mexico
AGENT and TITLE R. M. Bauer, Jr., Field Engineer
WITNESSED ____
COMPANY ____

REMARKS

RECEIVED
MAR 4 1959
OIL CON. COM.
DIST. 3

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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