NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

DEC 17 AM 10 19

Pool Jalmat Formation Yates-Seven Rivers County Lea

Initial ____ Annual ____ Special X Date of Test 11-30 to 12-6-57

Company Pan American Petroleum Corp. Lease G. Myers "B" Well No. 13

Unit L Sec. 9 Twp. 24 Rge. 37 Purchaser El Paso Natural Gas Company

Casing 7" Wt. 20.0 I.D. ____ Set at 3689 Perf. ____ To ____

Tubing 2" Wt. 4.7 I.D. ____ Set at 3396 Perf. ____ To ____

Gas Pay: From 3125 To 3145 L 3125 xG 0.650 -GL 2951 Bar.Press. 13.2

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

Date of Completion: 10-23-56 Packer 3230 Reservoir Temp. ____

OBSERVED DATA

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

No.	Flow Data ~~(Prover)~~ (Line) Size	~~(Choke)~~ (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI								837		72
1.	4	1.000	556	7.6	116			775		24
2.	4	1.000	559	9.0	99			740		24
3.	4	1.000	567	14.44	99			695		24
4.	4	1.000	562	19.36	62			652		24
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.	6.135	65.60		0.9501	0.9608	1.062	382
2.	6.135	71.75		1.0010	0.9608	1.064	450
3.	6.135	91.52		1.0010	0.9608	1.064	575
4.	6.135	105.51		0.9961	0.9608	1.062	660
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/bbl. Specific Gravity Separator Gas ____

Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____

c 0.707 $(1-e^{-s})$ 0.130 P_c 850.2 P_c^2 722.8

No.	P_w Pt (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.	788.2	621.3	0.270	0.073	0.009	621.3	101.5		
2.	775.2	587.3	0.320	0.102	0.013	587.3	135.5		
3.	708.2	501.5	0.407	0.166	0.022	501.5	221.3		
4.	665.2	442.5	0.467	0.218	0.028	442.5	280.3		
5.									

Absolute Potential: 1,100 MCFPD; n 0.545

COMPANY Pan American Petroleum Corporation

ADDRESS Box 68 - Hobbs, New Mexico

AGENT and TITLE J. W. Meek 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.