NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool **Undesignated Dakota** Formation **Dakota** County **San Juan**

Initial **X** Annual ______ Special ______ Date of Test **3-20-59**

Company **PAN AMERICAN PETROLEUM CORP.** Lease **Gallegos Canyon Unit** Well No. **84**

Unit **D** Sec. **26** Twp. **28N** Rge. **13W** Purchaser ______

Casing **7"** Wt. **20 / 23** I.D. **6.456 / 6.366** Set at **6433** Perf. **6306** To **6384**

Tubing **2-3/8** Wt. **4.7** I.D. **1.995** Set at **6293** Perf. **6287** To **6293**

Gas Pay: From **6306** To **6384** L **6287** xG **0.700** -GL **4401** Bar.Press. **12**

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

Date of Completion: **3-7-59** Packer **6220** Reservoir Temp. **175°**

OBSERVED DATA

Tested Through ([redacted]) (Choke) ([redacted]) Type Taps ______

No.	Flow Data: ([redacted]) (Line) Size	Flow Data: (Choke) ([redacted]) 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 13 days					1936				
1.	2"	3/4"	240		60 (est)	250	60 (est)	-	-	3 hrs.
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		252	1.000	0.9258	1.030	2971
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 **1948** P_c^2 **3,794,704**

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.	272	73,984	27.933	780.252	213.789	287,773	3,506,931	536	
2.									
3.									
4.									
5.									

Absolute Potential: **3152** 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

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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