ILLEGIBLE

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Aztec-Pictured Cliffs__ Formation __Pictured Cliffs__ County __San Juan__

Initial __X__ Annual_____ Special_____ Date of Test __12-19-57__

Company __PAN AMERICAN PETROLEUM CORP.__ Lease __Fewerine Gas Unit__ Well No. __1__

Unit __F__ Sec. __26__ Twp. __29N__ Rge. __10W__ Purchaser __El Paso Natural Gas Co.__

Casing __4½"__ Wt. __9.5__ I.D. __4.070__ Set at __1822__ Perf. __1847__ To __1870__

Tubing __1.66__ Wt. __2.3__ I.D. __1-1/4"__ Set at __1850__ Perf. __1839__ To __1850__

Gas Pay: From __1847__ To __1870__ L __1818__ xG __0.49 est.__ GL __1262__ Bar.Press. __12__

Producing Thru: Casing __X__ Tubing_____ Type Well __Gas - Single__

Date of Completion: __11-17-57__ Packer __No__ Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. __90° F.__

OBSERVED DATA

Tested Through __(Prover)__ (Choke) __(Nozzle)__   Type Taps_____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Nozzle) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Shut in 34 days					692		693		
1.		3/4"	139		60 est.	157	60 est.	141	60 est.	3
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.	11.36		151	1.000	0.9725	1.010	1772
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio_____ cf/bbl.   Specific Gravity Separator Gas_____
Gravity of Liquid Hydrocarbons_____ deg.   Specific Gravity Flowing Fluid __0.49 est.__
F_c_____ $(1-e^{-s})$_____ P_c __704__ P_c^2 __495,616__

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	$\frac{P_w}{P_c}$
1.						26,741	447,055		
2.									
3.									
4.									
5.									

Absolute Potential: __1842__ MCFPD; n __0.65__
COMPANY __PAN AMERICAN PETROLEUM CORPORATION__
ADDRESS __Box 587, Farmington, New Mexico__
AGENT and TITLE __Field Engineer, S. M. Knapp, Jr.__   R M Sauer Jr.
WITNESSED
COMPANY_____

RECEIVED
JAN 30 1958
OIL CON. COM.
DIST. 3

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.