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 __11-4-57__

Company __Pan American Petroleum Corp,__ Lease __Gonzales Gas Unit "A"__ Well No. __1__

Unit __I__ Sec. __20__ Twp. __29N__ Rge. __10W__ Purchaser __El Paso Natural Gas Company__

Casing __5½__ Wt. __14__ I.D. __5.012__ Set at __1976__ Perf. __1848__ To __1878__

Tubing __1½__ Wt. __2.3__ I.D. __1.38__ Set at __1866__ Perf. __1857__ To __1868__

Gas Pay: From __1848__ To __1878__ L __1863__ xG __0.65 est.__ -GL __1221__ Bar.Press. __12__

Producing Thru: Casing __X__ Tubing _____ Type Well __Gas - Single__

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: __10-9-57__ Packer __No__ Reservoir Temp. __90° F__

OBSERVED DATA

Tested Through __(Prover)__ (Choke) __(Orifice)__   Type Taps _____

| No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Temp. °F.	Casing Data Press. psig	Temp. °F.	Duration of Flow Hr.
SI	Shut in 26 days					670		669		
1.		3/4"	28			82	60	30	60	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.	12,365		40	1.000	0.9609	1.000	473
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 __0.65 est__
P_c __682__ P_c^2 __465,124__

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	$\dfrac{P_w}{P_c}$
1.						8,835	456,289		
2.									
3.									
4.									
5.									

Absolute Potential: __483__ MCFPD; n __0.85__

COMPANY __PAN AMERICAN PETROLEUM CORPORATION__
ADDRESS __Box 467, Farmington, New Mexico__
AGENT and TITLE __E. M. Bonner, Jr., Field Engineer__ /s/ R M Bonner, Jr.
WITNESSED _____
COMPANY _____
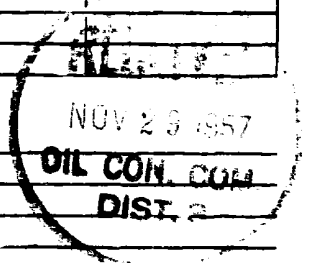
REMARKS

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.