Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Undesignated Farmington__ Formation __Farmington__ County __San Juan__
(dual with Aztec-Pictured Cliffs)

Initial __X__ Annual_____ Special_____ Date of Test __11-19-59__

Company __Pan American Petroleum Corp.__ Lease __Trujillo Gas Unit__ Well No. __1__

Unit __X__ Sec. __21__ Twp __29N__ Rge. __10W__ Purchaser __El Paso Natural Gas Company__

Casing __5-1/2__ Wt. __14__ I.D. __5.012__ Set at __1860__ Perf. __1050__ To __1070__

Tubing __1-1/4__ Wt. __2.3__ I.D. __1.380__ Set at __1052__ Perf. __1050__ To __1052__

Gas Pay: From __1050__ To __1070__ L __1050__ xG __0.65 (est.)__ GL __683__ Bar.Press. __12__

Producing Thru: Casing __X__ Tubing_____ Type Well __Gas-Gas Dual__

Date of Completion: __11-12-59__ Packer __1725__ Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. __80° F__

OBSERVED DATA

Tested Through (~~Flange~~) (Choke) (~~Nozzle~~)   Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(~~Flange~~) (Line) Size	(Choke) (~~Positive~~) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Shut in 7 days					300		300		
1.	2"	3/4"	55		60° (est.)	60		54		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		65	1.000	0.9608	1.000	772
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_____
F_c_____ $(1-e^{-s})$_____ P_c __312__ P_c^2 __97,344__

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.						5184	92,160		
2.									
3.									
4.									
5.									

Absolute Potential: __809__ MCFPD; n __0.85__

COMPANY __Pan American Petroleum Corporation__
ADDRESS __Box 457, Farmington, New Mexico__
AGENT and TITLE __R. H. Bauer, Jr., Area Engineer__ _RMBauer Jr._
WITNESSED _____
COMPANY _____

REMARKS
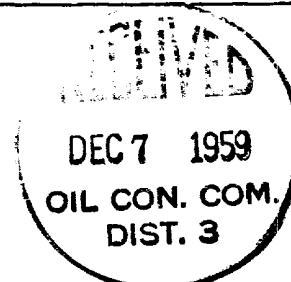
INSTRUCTIONS

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.