Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Angel Peak Extension__ormation __Dakota__ County __San Juan__

Initial __X__ Annual_____ Special_____ Date of Test __8/8/60__

Company __Aztec Oil & Gas Company__ Lease __McClanahan__ Well No. __15-D__

Unit __L__ Sec. __8A__ Twp. __28N__ Rge. __10W__ Purchaser_____

Casing __4½__ Wt. __9.50__ I.D. __4.090__ Set at_____ Perf. __6040__ To __6406__

Tubing __2 3/8__ Wt. __4.70__ I.D. __1.995__ Set at_____ Perf. __Pin collar__ To_____

Gas Pay: From __6040__ To __6406__ L_____ xG __0.65__ _GL_____ Bar.Press. __12__

Producing Thru: Casing_____ Tubing __X__ Type Well __Single__

Date of Completion: __8/1/60__ Packer_____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. __140__

OBSERVED DATA

Tested Through __Prover__ (Choke) (Meter) Type Taps_____

| No. | Flow Data | | | | | Tubing Data | | Casing Data | | Duration of Flow Hr. |
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						2095		2041		7 days
1.						903	60 (es)	1157		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.	22.365		972	1.0000	0.9505	1.065	7592
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_____
P_c_____ $(1-e^{-s})$_____ P_c __2253__ P_c^2 __5084289__

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.	1269					1610761	3504628		
2.									
3.									
4.									
5.									

Absolute Potential: __10,894__ MCFPD; n __0.75__

COMPANY __Aztec Oil & Gas Company__
ADDRESS __Drawer 7 310, Farmington, New Mexico__
AGENT and TITLE ORIGINAL SIGNED BY L. M. STEVENS __L. M. Stevens, Dist. Engr.__
WITNESSED_____
COMPANY_____

REMARKS

RECEIVED
AUG 1 2 1960
OIL CON. COM.
DIST. 3
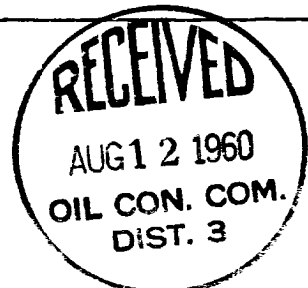
INSTRUCTIONS

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.