NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Formation Pictured Cliffs County San Juan

Initial X Annual ______ Special ______ Date of Test 9/8/60

Company Aztec Oil & Gas Company Lease Arizona-Jicarilla Well No. [illegible]

Unit L Sec. 9 Twp. 26N Rge. 5W Purchaser ______

Casing 2 7/8 Wt. 6.70 I.D. 2.441 Set at 3666 Perf. 3606 To [illegible]

Tubing ______ Wt. ______ I.D. ______ Set at ______ Perf. ______ To ______

Gas Pay: From 3606 To [illegible] L 3606 xG 0.65(E) -GL [illegible] Bar.Press. 12

Producing Thru: Casing X Tubing ______ Type Well Single

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

Date of Completion: 9/1/60 Packer ______ Reservoir Temp. [illegible]

OBSERVED DATA

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

No.	Flow Data (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								[illegible]		7 days
1.		0.75						[illegible]	[illegible]	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		[illegible]	1.0000	[illegible]	[illegible]	[illegible]
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 897 P_c^2 804.609

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	[illegible]	57.600	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
2.									
3.									
4.									
5.									

Absolute Potential: [illegible] MCFPD; n 0.85

COMPANY Aztec Oil & Gas Company

ADDRESS [illegible], Farmington, New Mexico

AGENT and TITLE ORIGINAL SIGNED BY L. M. STEVENS L. M. Stevens, Dist. 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.