NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Formation Dakota County San Juan

Initial ✓ Annual _____ Special _____ Date of Test 7/12/61

Company Aztec Oil & Gas Co. Lease McDaniel Well No. 1-B

Unit M Sec. 17 Twp. 29N Rge. 11W Purchaser _____

Casing 4 1/2" Wt. 9.50# I.D. 4.090 Set at 6443 Perf. 6174 To 6180

Tubing 2 Wt. 4.7# I.D. 1.995 Set at 6160 Perf. Pan Bellow To _____

Gas Pay: From 6108 To 6273 L 6160 xG 0.700 -GL _____ Bar.Press. 12

Producing Thru: Casing _____ Tubing ✓ Type Well Single

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

Date of Completion: 7/9/61 Packer _____ Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						1975		1975	-	7 days
1.		0.750				312	80	322	-	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		384	0.9813	1.9228	1.044	4502
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 1987 P_c^2 3948169

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	384					147456	3800713		
2.									
3.									
4.									
5.									

Absolute Potential: 5227 MCFPD; n 0.85

COMPANY Aztec Oil & Gas Co.

ADDRESS Drawer 570, Farmington, N.M.

AGENT and TITLE _____

WITNESSED _____

COMPANY _____

REMARKS

RECEIVED
JUL 21 1961
OIL CON. COM.
DIST. 3