NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan

Initial ✓ Annual _____ Special _____ Date of Test 8/18/61

Company Aztec Oil & Gas Co. Lease Cain Well No. 15-D

Unit M Sec. 31 Twp. 29N Rge. 9W Purchaser Southern Union Gas Co.

Casing 4½ Wt. 11.6 9.5 I.D. 4.000 Set at 6668 Perf. 6435 To 6570

Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 6380 Perf. OPEN END 6380 To _____

Gas Pay: From 6435 To 6570 L 6380 xG 0.700 -GL 4147 Bar.Press. 12

Producing Thru: Casing _____ Tubing ✓ Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 8/11/61 Packer None Reservoir Temp. —

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Type Taps _____

No.	Flow Data (~~Prover~~) (Line) Size	(Choke) (~~Orifice~~) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI	Shut-In 8 Days					2201		2206		
1.	2	3/4				378	80	1178		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		390	.9813	0.9258	1.043	4561
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ $(1-e^{-s})$ _____

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c _____ P_c^2 _____

No.	P_w Pt (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.									
2.						1,416,100	2,656,224		
3.									
4.									
5.									

Absolute Potential: 6280 MCFPD; n .75

COMPANY Aztec Oil & Gas Company
ADDRESS Drawer #570, Farmington, New Mex.
AGENT and TITLE R. L. Wilson D. M. Means, Dist. Eng.
WITNESSED _____
COMPANY _____

REMARKS

RECEIVED
SEP 7 1961
OIL CON. COM.
DIST. 3