NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Pictured Cliffs County San Juan

Initial — Annual ____ Special ____ Date of Test 5/29/61

Company Aztec Oil & Gas Co. Lease Hanks Well No. 16-P.C.

Unit K Sec. 6 Twp. 27N Rge. 9W Purchaser Southern Union Gas Co.

Casing 2 7/8" Wt. 6.5 I.D. 2.441 Set at 2728 Perf. 2572 To 2601

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

Gas Pay: From 2572 To 2601 L 2572 xG 0.650 =GL 1672 Bar.Press. 12

Producing Thru: Casing — Tubing ____ Type Well Single *

Date of Completion: 5/22/61 Packer — Single-Bradenhead-G. G. or G.O. Dual 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								542		7 days
1.		0.750						107	60(E)	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		119	1.000	0.9608	1.014	1433
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 554 P_c^2 306.916

No.	P_w Pt (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.	119	14161	7.955	63.282	7.214	21375	285.541	146	
2.									
3.									
4.									
5.									

Absolute Potential: 1524 MCFPD; n 0.85

COMPANY Aztec Oil & Gas Co.

ADDRESS Drawer 570, Farmington, N.M.

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

WITNESSED ____

COMPANY ____

REMARKS

* Pictured Cliffs Dakota 2 mcfd in common hole.

RECEIVED