NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County San Juan

Initial X Annual ____ Special ____ Date of Test 9/4/63

Company Aztec Oil & Gas Lease Culpepper-Martin Well No. 14

Unit A Sec. 32 Twp. 32N Rge. 12W Purchaser ____

Casing 4½"&7" Wt. 9.5 & 11.6 20 & 23 I.D. 4.090 Set at 4½" to 4141' 7" to 4955' 4½" to 7130' Perf. 4640 To 4780

Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 4638 Perf. Pin collared To ____

Gas Pay: From 4640 To 4780 L 4638 xG .700(est) -GL 3247 Bar.Press. 12

Producing Thru: Casing ____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: August 29, 1963 Packer ____ Reservoir Temp. ____

* Dakota perfs squeezed off, Baker Model "B" cast iron cement retainer at 6621'

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Meter~~) 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						967		967		
1.		.750				440	60° est	815	60° est	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.	12.3650		452	1.000	.9258	1.056	5,464
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 979 P_c^2 958,441

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.	827					683,929	274,512		
2.									
3.									
4.									
5.									

Absolute Potential: 13,956 MCFPD; n .75

COMPANY AZTEC OIL & GAS COMPANY

ADDRESS DRAWER 570, FARMINGTON, NEW MEXICO

AGENT and TITLE B. H. MEANS, DISTRICT ENGINEER B. H. Means

WITNESSED ____

COMPANY ____

REMARKS

RECEIVED
SEP 6 1963
OIL CON. COM.
DIST. 3