NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT PACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Basin Formation Dakota County San Juan

Initial X Annual Special Date of Test 8/28/61

Company Aztec Oil & Gas Co. Lease Krause Well No. 1-D

Unit D Sec. 2 Twp. 29N Rge. 12W Purchaser Southern Union Gas Co.

Casing 4½ Wt. 9.5#/ft I.D. 4.000 Set at 6728 Perf. 6446 To 6644

Tubing 2⅜" Wt. 4.7 I.D. 1.995 Set at 6436 Perf. open ended To

Gas Pay: From 6446 To 6644 L 6436 xG .65(est)-GL 4183 Bar.Press. 12

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

Date of Completion: 8/30/61 Packer no 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						1999		2003		9 Days
1.	2"	¾"				139	60°(E)	347	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		146	1.000	.9608	1.015	1761
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 2015 P_c^2 4,060,225

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.						299,209	3,761,016		
2.									
3.									
4.									
5.									

Absolute Potential: 1865 MCFPD; n .75
COMPANY Aztec Oil & Gas Co.
ADDRESS Room 510, Farmington, N.M.
AGENT and TITLE B. H. Means, Dick Simpson
WITNESSED
COMPANY

REMARKS

RECEIVED

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 X Annual ____ Special ____ Date of Test 8/28/61

Company Aztec Oil & Gas Co. Lease Young Well No. 1-D

Unit D Sec. 2 Twp. 29N Rge. 12W Purchaser Southern Union Gas Co.

Casing 4 1/2 Wt. 9.5 & 11.6 I.D. 4.000 Set at 6728 Perf. 6446 To 6644

Tubing 2 3/8" Wt. 4.7 I.D. 1.995 Set at 6436 Perf. open ended To ____

Gas Pay: From 6446 To 6644 L 6436 xG .65(est) -GL 4183 Bar.Press. 12

Producing Thru: Casing ____ Tubing X Type Well Single Gas

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

Date of Completion: 8/20/61 Packer no 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	Temp. °F.	Casing Data Press. psig	Temp. °F.	Duration of Flow Hr.
SI						1999		2003		9 Days
1.	2"	3/4"				134	60°(E)	347	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		146	1.000	.9608	1.015	1761
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 2.015 P_c^2 4,060,225

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.						299,209	3,761,016		
2.									
3.									
4.									
5.									

Absolute Potential: 1865 MCFPD; n .75

COMPANY Aztec Oil & Gas Co.

ADDRESS Drawer 570, Farmington, N.M.

AGENT and TITLE B. H. [illegible], Dist. Engineer

WITNESSED ____

COMPANY ____

REMARKS

RECEIVED
SEP 5 1961
OIL CON. COM
DIST. 3