NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET -- SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Initial Deliverability Test

Pool __South Blanco__ Formation __Pictured Cliffs__ County __Rio Arriba__

Purchasing Pipeline __Southern Union Gas Company__ Date Test Filed __February 12, 1960__

Operator __Aztec Oil & Gas Company__ Lease __Arizona-Stoutila__ Well No. __6__

Unit __P__ Sec. __16__ Twp. __25__ Rge. __4__ Pay Zone: From __1216__ To __1246__

Casing: OD __4__ WT. __9.5__ Set At __1202__ Tubing: OD __2 3/8__ WT. __4.7__ T. Perf. __1200__

Produced Through: Casing _____ Tubing __XX__ Gas Gravity: Measured __0.695__ Estimated _____

Date of Flow Test: From __1/23__ To __1/31/60__ *Date S.I.P. Measured __10/14/59__

Meter Run Size __4__ Orifice Size __1.250__ Type Chart __8 R__ Type Taps __F__

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)

Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)

Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)

Flowing meter pressure (meter reading when Dwt. measurement taken:

Normal chart reading _____ psig + 12 = _____ psia (d)

Square root chart reading (_____) ^{2} x spring constant _____ = _____ psia (d)

Meter error (c) - (d) or (d) - (c) ± = _____ psi (e)

Friction loss, Flowing column to meter:

(b) - (c) Flow through tubing: (a) - (c) Flow through casing = _____ psi (f)

Seven day average static meter pressure (from meter chart):

Normal chart average reading _____ psig + 12 = _____ psia (g)

Square root chart average reading (__7.5__) ^{2} x sp. const. __10__ = __560__ psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = __562__ psia (h)

P_t = (h) + (f) = __562__ psia (i)

Wellhead casing shut-in pressure (Dwt) __1070__ = __1060__ psia (j)

Wellhead tubing shut-in pressure (Dwt) __1000__ psig + 12 = __1012__ psia (k)

P_c = (j) or (k) whichever well flowed through _____ psig + 12 = __1012__ psia (l)

Flowing Temp. (Meter Run) __65__ °F + 460 = __525__ °Abs (m)

P_d = ½ P_c = ½ (l) = __506__ psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{545} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{} = 1.000 \right)^* = 545 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \; 545 \; \left[\frac{\left(P_c^2 - P_d^2\right) = 768108}{\left(P_c^2 - P_w^2\right) = 704080} \right]^{n \; 1.0768 \; 0.85} = 587 \text{ MCF/da.}$$

SUMMARY

P_c = __1012__ psia

Q = __545__ Mcf/day

P_w = __545.5__ psia

P_d = __506__ psia

D = __587__ Mcf/day

Company __Aztec Oil & Gas Company__

By __ORIGINAL SIGNED BY L. M. STEVENS__

Title __L. M. Stevens, Dist. Engineer__

Witnessed by _____

Company _____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$\dfrac{(F_cQ)^2 \quad (1-e^{-S})}{R^2}$	$\dfrac{P_t^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
2453	0.163	26.855	4.860	315.844	380.184	545.8