Form C-122-A

Revised April 20, 1955

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)

72-332

Pool Blanco Formation Mesa Verde County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease San Juan 28-5 Well No. 31

Unit G Sec. 13 Twp. 28 Rge. 5 Pay Zone: From 6536 To 6694

Casing: OD 5-1/2 WT. 15.5 Set At 6767 Tubing: OD 2" WT. 4.7 T. Perf. 6642

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .652 Estimated ____

Date of Flow Test: From 12/15/58 To 12/22/58* Date S.I.P. Measured 9/17/58 (26)

Meter Run Size ____ Orifice Size ____ Type Chart ____ Type Taps ____

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 (7.7)^2 x sp. const. 10	=	593	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	593	psia	(h)
P_t = (h) + (f)	=	593	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1109	psig + 12 =	1121	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1109	psig + 12 =	1121	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1121	psia	(l)
Flowing Temp. (Meter Run) 57 °F + 460	=	517	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	561	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^* = 250 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\,250 \left[\frac{P_c^2 - P_d^2 = 941920}{P_c^2 - P_w^2 = 903500} \right]^n \frac{1.0425}{1.0316} = 258 \text{ MCF/da.}$$

SUMMARY

P_c = 1121 psia

Q = 250 Mcf/day

P_w = 594 psia

P_d = 561 psia

D = 258 Mcf/day

Company El Paso Natural Gas

By Original Signed

Title Harold L. Kendrick

Witnessed by ____

Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
4331	.270	5.527	1492	351649	353141	594

D at 500 = 268

RECEIVED JAN 28 1959 OIL CON. COM. DIST. 3