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)

71-208

Pool Ballard Formation Pictured Cliffs County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Huerfano Unit Well No. 32-A

Unit I Sec. 23 Twp. 26 Rge. 9 Pay Zone: From 2049 To 2095

Casing: OD 5-1/2 WT. 14 Set At 2049 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2053

Produced Through: Casing X Tubing Gas Gravity: Measured .675 Estimated

Date of Flow Test: From 9/21/58 To 9/29/58 * Date S.I.P. Measured 7/16/58

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 (6.60) ^{2} x sp. const. 500	= 218	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 218	psia	(h)
P_t = (h) + (f)	= 218	psia	(i)
Wellhead casing shut-in pressure (Dwt) 504	psig + 12 = 516	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 504	psig + 12 = 516	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 516	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	= 520	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 258	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 394 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \, 394 \left[\frac{(P_c^2 - P_d^2) = 199{,}692}{(P_c^2 - P_w^2) = 218{,}732} \right]^{n} \frac{.9129}{.9254} = 365 \text{ MCF/da.}$$

SUMMARY

P_c =	516 psia	Company	El Paso Natural Gas
Q =	394 Mcf/day	By	Original Signed Harold L. Kendrick
P_w =	218 psia	Title	
P_d =	258 psia	Witnessed by	
D =	365 Mcf/day	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
			Friction Negligible			

D at 250 = 361

Tubing re-run with differential valve 9/3/58.

RECEIVED
OCT 1958
OIL CON. COM.
DIST. 3

OIL