Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

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)

74-757-01

Pool Ballard Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Foster Well No. 2

Unit F Sec. 7 Twp. 25 Rge. 7 Pay Zone: From 2313 To 2392

Casing: OD 5-1/2 WT. 15.5 Set At 2448 Tubing: OD 1 WT. 2.4 T. Perf. 2386

Produced Through: Casing ~~ Tubing X Gas Gravity: Measured .660 Estimated

Date of Flow Test: From 12/7/58 To 12/15/58* Date S.I.P. Measured 10/7/58

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 (7.10) ^{2} x sp. const. 5	= 252	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 252	psia	(h)
P_t = (h) + (f)	= 252	psia	(i)
Wellhead casing shut-in pressure (Dwt) 655	psig + 12 = 667	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 655	psig + 12 = 667	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 667	psia	(l)
Flowing Temp. (Meter Run) 46 °F + 460	= 506	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 334	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 132 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\,132 \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{333333}{316605} \right]^{n} \frac{.8850}{.9014} = 119 \text{ MCF/da.}$$

SUMMARY

P_c =	667 psia	Company	El Paso Natural Gas
Q =	132 Mcf/day	By	Original Signed Harold L. Kendrick
P_w =	261 psia	Title	
P_d =	334 psia	Witnessed by	
D =	119 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2 (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
1575	.108	44.262	4,780	63,504	68,284	261

D at 250 = 130

RECEIVED
SEP 14 1959
OIL CON. COM.
DIST. 3