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)

Pool South Blanco Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Rincon Unit Well No. 91

Unit D Sec. 11 Twp. 26 Rge. 7 Pay Zone: From 2930 To 2978

Casing: OD 5-1/2 WT. 15.5 Set At 3025 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2911

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .655 Estimated ____

Date of Flow Test: From 8/31 To 9/8/57 * Date S.I.P. Measured 2/5/57

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 (7.65) ^{2} x sp. const. 5	= 293	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 293	psia	(h)
P_t = (h) + (f)	= 293	psia	(i)
Wellhead casing shut-in pressure (Dwt) 783	psig + 12 = 795	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 795	psia	(l)
Flowing Temp. (Meter Run) 59 °F + 460	= 519	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 398	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 1721 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\,1721 \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{473,621}{314,582} \right]^{n} \frac{1.5055}{1.4160} = 2437 \text{ MCF/da.}$$

SUMMARY

P_c =	795	psia	
Q =	1721	Mcf/day	
P_w =	~~563~~ ~~564~~	psia	
P_d =	398	psia	
D =	2437	Mcf/day	

Company El Paso Natural Gas
By Original Signed
Title Lewis D. Galloway
Witnessed by ____
Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
1907	.129	1795.302	231,594	85,849	317,443	~~563~~ 564

D at 250 = 1767

RECEIVED
NOV 7 1957
OIL CON. COM.
DIST. 3