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 Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease Bryden Well No. 3(M)

Unit M Sec. 21 Twp. 28 Rge. 8 Pay Zone: From 3818 To 4600

Casing: OD 5-1/2 WT. 15.5 Set At 4633 Tubing: OD 2 WT. 4.7 T. Perf. 4522

Produced Through: Casing ~~ Tubing X Gas Gravity: Measured .685 Estimated

Date of Flow Test: From 10/1 To 10/9 * Date S.I.P. Measured 6/4/57

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 (7.30) ^{2} x sp. const. 1.0	= 533	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 533	psia	(h)
P_t = (h) + (f)	= 533	psia	(i)
Wellhead casing shut-in pressure (Dwt)	psig + 12 =	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1076	psig + 12 = 1088	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1088	psia	(l)
Flowing Temp. (Meter Run) 71 °F + 460	= 531	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 544	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 1207 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{887,808}{873,495} \right]^{n} \frac{1.0163}{1.01213} = 1202 \text{ MCF/da.}$$

SUMMARY

P_c =	1088 psia	Company	El Paso Natural Gas
Q =	1207 Mcf/day	By	
P_w =	557 psia	Title	Original Signed
P_d =	544 psia	Witnessed by	Lewis D. Galloway
D =	1202 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
3098	.202	128.782	26.014	284,089	310,103	557

D at 500 = 1229

RECEIVED
OCT 22 1957
OIL CON. COM.
DIST. 3