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 Wildcat Formation Pictured Cliff County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease San Juan 27-4 Unit Well No. 6

Unit M Sec. 31 Twp. 27 Rge. 4 Pay Zone: From 4130 To 4164

Casing: OD 5½ WT. 15.5 Set At 4249 Tubing: OD 2 WT. 4.7 T. Perf. 4090

Produced Through: Casing X Tubing Gas Gravity: Measured .665 Estimated

Date of Flow Test: From 4/23 To 5/1/57 * Date S.I.P. Measured 9/7/56

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 (7.40) ^{2} x sp. const. 10	=	548	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	548	psia	(h)
P_t = (h) + (f)	=	548	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1026	psig + 12 =	1038	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1026	psig + 12 =	1038	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1038	psia	(l)
Flowing Temp. (Meter Run) 53 °F + 460	=	513	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	519	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 991 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{808,083}{777,140} \right]^{n} \quad \begin{matrix} 1.0398 \\ 1.0337 \end{matrix} = 1024 \text{ MCF/da.}$$

SUMMARY

P_c =	1038	psia	
Q =	991	Mcf/day	
P_w =	548	psia	
P_d =	519	psia	
D =	1024	Mcf/day	

Company El Paso Natural Gas Company
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	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
			FRICTION NEGLIGIBLE			

D @ 250 = 1237

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received 3

DISTRIBUTION

	NO. FURNISHED	
Operator		
Santa Fe	/	
Proration Office		
State Land Office		
U. S. G. S	/	