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)

Pool Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Howell Well No. 2-L

Unit A Sec. 25 Twp. 30 Rge. 8 Pay Zone: From 4778 To 5398

Casing: OD 7 WT. 20 Set At 4700 Tubing: OD 2 WT. 4.7 T. Perf. 4890

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .671 Estimated ____

Date of Flow Test: From 10/30/58 To 11/7/58 * Date S.I.P. Measured 5/22/58

Meter Run Size ____ Orifice Size 1.250 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 (5.55)^2 x sp. const. 15	=	462	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	462	psia	(h)
P_t = (h) + (f)	=	462	psia	(i)
Wellhead casing shut-in pressure (Dwt) 694	psig + 12 =	706	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 580	psig + 12 =	592	psia	(k)
+ P_c = (j) or (k) whichever well flowed through	=	706	psia	(l)
Flowing Temp. (Meter Run) 68 °F + 460	=	528	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	353	psia	(n)

FLOW RATE CALCULATION

Q = ____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^*$ = 1129 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{(P_c^2 - P_d^2) = 373827}{(P_c^2 - P_w^2) = 261104} \right]^n$ $\frac{1.4317}{1.3090}$ = 1478 MCF/da.

SUMMARY

P_c =	706	psia	
Q =	1129	Mcf/day	
P_w =	487	psia	
P_d =	353	psia	
D =	1478	Mcf/day	

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
Witnessed by ____
Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(FcQ)^2 \quad (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3281	.212	112.678	23,888	213,444	237,332	487

+ SIPC used for P_c (Highest). Tubing Perf. on 9/30/58

D at 500 = 981

RECEIVED NOV 28 1958 OIL CON. COM. DIST. 3