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 Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Co. Lease San Juan 28-6 Unit Well No. 31

Unit M Sec. 28 Twp. 28 Rge. 6 Pay Zone: From 5046 To 5689

Casing: OD 5½ WT. 15.5 Set At 5722 Tubing: OD 2 WT. 4.7 T. Perf. 5603

Produced Through: Casing ____ Tubing X Gas Gravity: Measured ____ Estimated .720

Date of Flow Test: From 12/8 To 12/16 * Date S.I.P. Measured 10/4/55

Meter Run Size 4 Orifice Size ____ Type Chart Sq. Rt. Type Taps Flange

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 (7.50)^2 x sp. const. 10	= 563	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 563	psia	(h)
P_t = (h) + (f)	= 563	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1060	psig + 12 = 1072	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1055	psig + 12 = 1067	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1067	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	= 520	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 534	psia	(n)

FLOW RATE CALCULATION

Q = ____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad\right)^*$ = 228 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{(P_c^2 - P_d^2) = 853,333}{(P_c^2 - P_w^2) = 820,352}\right]^n$ 1.0402 / 1.0300 = 235 MCF/da.

SUMMARY

P_c =	1067	psia
Q =	228	Mcf/day
P_w =	564	psia
P_d =	534	psia
D =	235	Mcf/day

Company El Paso Natural Gas Co.
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	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
4034	.254	4.597	1,168	316,969	318,137	564

D @ 500 = 239

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