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 Fulcher Kutz Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Co. Lease Cornell Well No. 2

Unit M Sec. 1 Twp. 29N Rge. 12W Pay Zone: From 1950 To 1996

Casing: OD 5.5 WT. 14 Set At 1950 Tubing: OD 1 WT. 1.68 T. Perf. 1950

Produced Through: Casing X Tubing Gas Gravity: Measured 0.665 Estimated

Date of Flow Test: From 2/29 To 3/8/56 * Date S.I.P. Measured

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 (6.30) ^{2} x sp. const. 5	= 198	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 198	psia	(h)
P_t = (h) + (f)	= 198	psia	(i)
Wellhead casing shut-in pressure (Dwt) 315	psig + 12 = 327	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 327	psia	(l)
Flowing Temp. (Meter Run) 52 °F + 460	= 512	*Abs	(m)
P_d = ½ P_c = ½ (l)	= 164	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^* = 322 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{80,033}{67,785} \right]^n \frac{1.1817}{1.1585} = 371 \text{ MCF/da.}$$

SUMMARY

P_c =	327	psia
Q =	322	Mcf/day
P_w =	198	psia
P_d =	164	psia
D =	371	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 = 198

OK

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