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 Kuts Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed

Operator El Paso Natural Gas Lease Cornell Well No. 4

Unit C Sec. 14 Twp. 29N Rge. 12W Pay Zone: From 1609 To 1636

Casing: OD 5.5 WT. 14 Set At 1609 Tubing: OD 1 WT. 1.70 T. Perf. 1612

Produced Through: Casing X Tubing Gas Gravity: Measured 0.650 Estimated

Date of Flow Test: From 3/8 To 3/16/56 * 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 (5.65) ^{2} x sp. const. 5	= 171	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 171	psia	(h)
P_t = (h) + (f)	= 171	psia	(i)
Wellhead casing shut-in pressure (Dwt) 375	psig + 12 = 387	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 387	psia	(l)
Flowing Temp. (Meter Run) 48 °F + 460	= 508	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 194	psia	(n)

FLOW RATE CALCULATION

Q = (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^*$ = 101 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{112,133}{120,528} \right]^n$ $\frac{.9303}{.9405}$ = 95 MCF/da.

SUMMARY

P_c = 387 psia
Q = 101 Mcf/day
P_w = 171 psia
P_d = 194 psia
D = 95 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	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
			FRICTION NEGLIGIBLE			

D. @ 250 = 72

OK

RECEIVED
JUN 12 1956
OIL CON. COM.
DIST. 3