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 West Kutz Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease Haarfano Well No. 70

Unit C Sec. 8 Twp. 26N Rge. 10W Pay Zone: From 2109 To 2134

Casing: OD 5½ WT. 15.5 Set At 2215 Tubing: OD 1¼ WT. 2.3 T. Perf. 2114

Produced Through: Casing X Tubing Gas Gravity: Measured Estimated

Date of Flow Test: From 2/28 To 3/9 * Date S.I.P. Measured 12/4/56

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 (6.55) ^{2} x sp. const. 5	=	215	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	215	psia	(h)
P_t = (h) + (f)	=	215	psia	(i)
Wellhead casing shut-in pressure (Dwt) 396	psig + 12 =	408	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 395	psig + 12 =	407	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	408	psia	(l)
Flowing Temp. (Meter Run) 53 °F + 460	=	513	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	204	psia	(n)

FLOW RATE CALCULATION

Q = _____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^*$ = 529 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{(P_c^2 - P_d^2) = 124,848}{(P_c^2 - P_w^2) = 120,239} \right]^n$ 1.0383 / 1.0325 = 546 MCF/da.

SUMMARY

P_c =	408	psia
Q =	529	Mcf/day
P_w =	215	psia
P_d =	204	psia
D =	546	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	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(FcQ)^2 (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
			FRICTION NEGLIGIBLE			

D @ 250 = 444

RECEIVED
DEC 28 1956
OIL CON. COM.
DIST. 3