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 Mesa Verde Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease Ludwick Well No. 11-M

Unit B Sec. 19 Twp. 30N Rge. 10W Pay Zone: From 4780 To 5226

Casing: OD 7 WT. 20 & 23 Set At 4716 Tubing: OD 2 WT. 4.7 T. Perf. 5166

Produced Through: Casing ~~5½ @ 4662-5114~~ Tubing X Gas Gravity: Measured .700 Estimated

Date of Flow Test: From 2/20/57 To 2/28/57 * Date S.I.P. Measured 9/25/56

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 (6.45) ^{2} x sp. const. 10	= 416	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 416	psia	(h)
P_t = (h) + (f)	= 416	psia	(i)
Wellhead casing shut-in pressure (Dwt) PC	psig + 12 = PC	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1098	psig + 12 = 1110	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1110	psia	(l)
Flowing Temp. (Meter Run) 65 °F + 460	= 525	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 555	psia	(n)

FLOW RATE CALCULATION

Q = _____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^*$ = 458 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{924,075}{1,054,761} \right]^n \frac{.8760}{.9055}$ = 415 MCF/da.

SUMMARY

P_c =	1110	psia
Q =	458	Mcf/day
P_w =	421	psia
P_d =	555	psia
D =	415	Mcf/day

Company El Paso Natural Gas Company

By Richard A Allen

Title

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
3616	0.231	18.542	4283	173,056	177,339	421

MAR 14 1957

OIL CON. COM.

DIST. 3

D @ 500 = 429