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. 9-M

Unit M Sec. 29 Twp. 30N Rge. 10W Pay Zone: From 4813 To 4930

Casing: OD 7 5/8 WT. 26.4 (5½ @ 5107) Set At 4460 Tubing: OD 2 WT. 4.7 T. Perf. 4862

Produced Through: Casing Tubing X Gas Gravity: Measured .705 Estimated

Date of Flow Test: From 2/20 To 2/28/57 * Date S.I.P. Measured 8/2/56

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 (6.65)^2 x sp. const. 10 = 442 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = 442 psia (h)

P_t = (h) + (f) = 442 psia (i)

Wellhead casing shut-in pressure (Dwt) PC psig + 12 = psia (j)

Wellhead tubing shut-in pressure (Dwt) 973 MV psig + 12 = 985 psia (k)

P_c = (j) or (k) whichever well flowed through = 985 psia (l)

Flowing Temp. (Meter Run) 57 °F + 460 = 517 °Abs (m)

$P_d = ½ P_c = ½$ (l) = 493 psia (n)

FLOW RATE CALCULATION

Q = ______ (integrated) X ($\sqrt{(c)}$ / $\sqrt{(d)}$ = ______ = ______) * = 339 MCF/da

DELIVERABILITY CALCULATION

$$D = Q \; 339 \left[\frac{P_c^2 - P_d^2 = 727,176}{P_c^2 - P_w^2 = 772,816} \right]^n \; \frac{.9411}{.9555} = 324 \text{ MCF/da.}$$

SUMMARY

P_c = 985 psia

Q = 339 Mcf/day

P_w = 445 psia

P_d = 493 psia

D = 324 Mcf/day

Company El Paso Natural Gas Company
By Tom Grant
Title
Witnessed by
Company

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$(F_cQ)^2 \; (1-e^{-s})$ / R^2	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3428	0.221	10.157	2245	195,364	197,609	445

D @ 500 = 317

RECEIVED MAR 14 1957 OIL CON. COM. DIST. 3

OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE
No. Copies Received 13

DISTRIBUTION	NO. FURNISHED	
Operator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	✓