Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

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 Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease Thornton Well No. 1

Unit K Sec. 31 Twp. 31N Rge. 11W Pay Zone: From 4648 To 4731

Casing: OD 5½ WT. 15.5 Set At 4807 Tubing: OD 2 WT. 4.7 T. Perf. 4692

Produced Through: Casing Tubing X Gas Gravity: Measured .700 Estimated

Date of Flow Test: From 3/8/57 To 3/17/57 * Date S.I.P. Measured

Meter Run Size Orifice Size 1.250 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 (7.25) ^{2} x sp. const. 1000	=	526	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	526	psia	(h)
P_t = (h) + (f)	=	526	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1069	psig + 12 =	1081	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1076	psig + 12 =	1088	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1088	psia	(l)
Flowing Temp. (Meter Run) 66 °F + 460	=	526	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	544	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^* = 807 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{887,806}{894,845} \right)^n \right] \frac{.9921}{.9941} = 802 \text{ MCF/da.}$$

SUMMARY

P_c =	1088	psia
Q =	807	Mcf/day
P_w =	537	psia
P_d =	544	psia
D =	802	Mcf/day

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

Company El Paso Natural Gas Company
By
Title
Witnessed by
Company

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OIL CON. COM.
DIST. 3

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
3084	.212	57.563	12,203	276,676	288,879	537

3 0 500 = 827

OK

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