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)

71-511

Pool Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Thurston Well No. 1

Unit H Sec. 31 Twp. 31 Rge. 11 Pay Zone: From 4448 To 4731

Casing: OD 5-1/2 WT. 15-1/2 Set At 4807 Tubing: OD 2 WT. 4.7 T. Perf. 4691

Produced Through: Casing Tubing X Gas Gravity: Measured 689 Estimated

Date of Flow Test: From 6/21/58 To 6/29/58 * Date S.I.P. Measured 5/8/57

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 (7.10) ^{2} x sp. const. 10	= 504	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 504	psia	(h)
P_t = (h) + (f)	= 504	psia	(i)
Wellhead casing shut-in pressure (Dwt) 822	psig + 12 = 834	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 819	psig + 12 = 831	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 831	psia	(l)
Flowing Temp. (Meter Run) 85 °F + 460	= 545	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 416	psia	(n)

FLOW RATE CALCULATION

Q = (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^*$ = 359 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{517505}{434164} \right]^n \frac{1.1919}{1.1406}$ = 409 MCF/da.

SUMMARY

P_c =	831	psia
Q =	359	Mcf/day
P_w =	506	psia
P_d =	416	psia
D =	409	Mcf/day

El Paso Natural Gas

Company
By
Title
Witnessed by
Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3232	.209	11.391	2.381	254.016	256.397	506

D at 500 = 354

RECEIVED
JUL 28 1958
OIL CON. COM.
DIST.