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)

72-122-01

Pool Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease San Juan 32-9 Well No. 54

Unit M Sec. 14 Twp. 32 Rge. 9 Pay Zone: From 5748 To 6238

Casing: OD 5-1/2 WT. 15.5 Set At 6246 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6173

Produced Through: Casing X Tubing Gas Gravity: Measured .589 Estimated

Date of Flow Test: From 6/21/58 To 6/29/58 * Date S.I.P. Measured 12/9/57

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 = 476	psia	(g)
Square root chart average reading (6.90) ^{2} x sp. const. 1000	= 476	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 476	psia	(h)
P_t = (h) + (f)	= 1064	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1052	psig + 12 = 959	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 947	psig + 12 = 959	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 542	psia	(l)
Flowing Temp. (Meter Run) 82 °F + 460	= 480	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	psia	(n)

FLOW RATE CALCULATION

Q = (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^*$ = 375 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{(P_c^2 - P_d^2) = 689281}{(P_c^2 - P_w^2) = 690221} \right]^n \frac{.9986}{.9989} =$ 375 MCF/da.

SUMMARY

P_c =	959	psia
Q =	375	Mcf/day
P_w =	479	psia
P_d =	480	psia
D =	375	Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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
3636	.232	12,433	2,884	226,576	229,460	479

D at 500 = 360