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)

78-306-02

Pool Blanco Formation Mesa Verde County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease San Juan 29-7 Unit Well No. 69

Unit I Sec. 25 Twp. 29N Rge. 7W Pay Zone: From 5405 To 5970

Casing: OD 5.5 WT. 15.5 Set At 5984 Tubing: OD 2 WT. 4.7 T. Perf. 5905

Produced Through: Casing Tubing X Gas Gravity: Measured .669 Estimated

Date of Flow Test: From 10/30/58 To 11/7/58 * Date S.I.P. Measured 6/30/58

Meter Run Size Orifice Size 1.900 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 = 904	psia	(g)
Square root chart average reading (7.10) ^{2} x sp. const. 10	= 904	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 904	psia	(h)
P_t = (h) + (f)	= 904	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1058	psig + 12 = 1070	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1058	psig + 12 = 1070	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1070	psia	(l)
Flowing Temp. (Meter Run) 73 °F + 460	= 533	°Abs	(m)
P_d = ½ P_c = ½ (1)	= 535	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 1696 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{826875}{788897} \right)^{n} \right] \frac{1.0482}{1.0482} = 1706 \text{ MCF/da.}$$

SUMMARY

P_c = 1070	psia	
Q = 1696	Mcf/day	
P_w = 960	psia	
P_d = 935	psia	
D = 1705	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	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3990	.490	839,907	99,877	856,016	913,893	960

D at 500 = 1634

RECEIVED
NOV 20 1958
OIL CON. COM.
DIST. 3