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)

72-140

Pool South Blanco Formation Pictured Cliffs County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Russell Well No. 3 (P)

Unit M Sec. 23 Twp. 28 Rge. 8 Pay Zone: From 2338 To 2432

Casing: OD 7-5/8 WT. 26.4 Set At 2537 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2397

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .634 Estimated ____

Date of Flow Test: From 9/29/58 To 10/7/58 * Date S.I.P. Measured 6/10/58

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 (7.00)^2 x sp. const. 10	=	490	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	490	psia	(h)
P_t = (h) + (f)	=	490	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1059	psig + 12 =	1071	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1060	psig + 12 =	1072	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	529	psia	(l)
Flowing Temp. (Meter Run) 69 °F + 460	=	536	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	____	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \text{____} = \text{____} \right)^{*} = 528 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{861888}{891342} \right]^{n} \frac{.9669}{.9718} = 513 \text{ MCF/da.}$$

SUMMARY

P_c =	1072	psia	
Q =	528	Mcf/day	
P_w =	508	psia	
P_d =	536	psia	
D =	513	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	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
1520	.105	168,974	17742	240100	257842	508

D at 250 = 611

RECEIVED
NOV 4 1958
OIL CON. COM.
DIST. 3