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)

72-345

Pool **East Blanco** Formation **Pictured Cliffs** County **Rio Arriba**

Purchasing Pipeline **El Paso Natural Gas** Date Test Filed

Operator **El Paso Natural Gas** Lease **San Juan 30-4** Well No. **23**

Unit **P** Sec. **4** Twp. **30** Rge. **4** Pay Zone: From **4088** To **4350**

Casing: OD **5-1/2** WT. **15.5** Set At **4407** Tubing: OD **2"** WT. **4.7** T. Perf. **4328**

Produced Through: Casing Tubing **X** Gas Gravity: Measured **.643** Estimated

Date of Flow Test: From **12/15/58** To **12/22/58** * Date S.I.P. Measured **9/29/58 (7)**

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) 1168	psig + 12 =	1180	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1168	psig + 12 =	1180	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1180	psia	(l)
Flowing Temp. (Meter Run) 58 °F + 460	=	518	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	590	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 79 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1044300}{1152300} \right]^{n} \frac{.9062}{.9196} = 73 \text{ MCF/da.}$$

SUMMARY

P_c =	1180 psia	Company	El Paso Natural Gas
Q =	79 Mcf/day	By	Original Signed
P_w =	490 psia	Title	Harold L. Kendrick
P_d =	590 psia	Witnessed by	
D =	73 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
			Friction Negligible			

D at 250 = 89

RECEIVED JAN 28 1959 OIL CON. COM. DIST. 3