

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)

Palmer Kutz

Pictured Cliff

San Juan

Pool _____ Formation _____ County _____

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

Operator **El Paso Natural Gas Co.** Lease **Cornall** Well No. **2**

Unit **M** Sec. **1** Twp. **29N** Rge. **12W** Pay Zone: From **1950** To **1996**

Casing: OD **5.5** WT. **14** Set At **1950** Tubing: OD **1** WT. **1.68** T. Perf. **1950**

Produced Through: Casing **I** Tubing _____ Gas Gravity: Measured **0.665** Estimated _____

Date of Flow Test: From **2/29** To **3/8/56** * Date S.I.P. Measured _____

Meter Run Size **4** Orifice Size _____ Type Chart **54. Rt.** Type Taps **Flange**

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 (**6.30**) ² x sp. const. **5** _____ = **138** psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = **138** psia (h)

P_t = (h) + (f) _____ = **137** psia (i)

Wellhead casing shut-in pressure (Dwt) **315** psig + 12 = **327** psia (j)

Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)

P_c = (j) or (k) whichever well flowed through **52** _____ = **327** psia (l)

Flowing Temp. (Meter Run) **52** °F + 460 _____ = **512** °Abs (m)

P_d = ½ P_c = ½ (l) _____ = **164** psia (n)

FLOW RATE CALCULATION

$$Q = \frac{Q}{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{322}{1} = 322 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \times \frac{1.1817}{1.1585} = 322 \times \left[\frac{80,033}{67,725} \right]^n \times \frac{1.1817}{1.1585} = 371 \text{ MCF/day}$$

SUMMARY

P_c = **327** psia
Q = **322** Mcf/day
P_w = **198** psia
P_d = **164** psia
D = **371** Mcf/day

Company **El Paso Natural Gas Company**
By **Original Signed**
Title **Lewis D. Galloway**
Witnessed by _____
Company _____

* This is date of completion test.

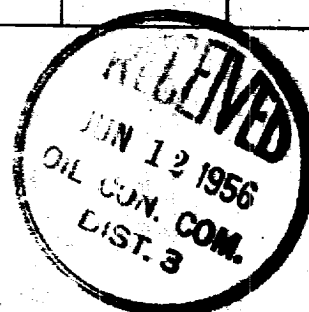
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
			FRICTION NEGLECTED			

D = 250 * 198

OK



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