

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)

Pool Ballard Pictured Cliff Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease McConnell Well No. 3

Unit G Sec. 13 Twp. 26N Rge. 9W Pay Zone: From 1991 To 2062

Casing: OD 5 1/2 WT. 15.50 Set At 1991 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 2014

Produced Through: Casing X Tubing _____ Gas Gravity: Measured .680 Estimated _____

Date of Flow Test: From 6/22 To 6/30 * Date S.I.P. Measured 4/4/56

Meter Run Size 4 Orifice Size _____ Type Chart Sq. 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 7.40 _____ psig + 12 = 274 psia (g)

Square root chart average reading (_____) ² x sp. const. _____ = 274 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 274 psia (h)

P_t = (h) + (f) _____ = 662 psia (i)

Wellhead casing shut-in pressure (Dwt) 650 _____ psig + 12 = 662 psia (j)

Wellhead tubing shut-in pressure (Dwt) 650 _____ psig + 12 = 662 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 662 psia (l)

Flowing Temp. (Meter Run) 68 °F + 460 _____ = 528 °Abs (m)

P_d = 1/2 P_c = 1/2 (l) _____ = 331 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{214}{1} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{214}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{214}{\left[\frac{328,683}{363,168} \right]^{.9050}} = 197 \text{ MCF/da.}$$

SUMMARY

P_c = 662 psia
Q = 214 Mcf/day
P_w = 274 psia
P_d = 331 psia
D = 197 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})	(FcQ) ²	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
			FRICION NEGLIGIBLE			

250 = 217

OK





OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received		3
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	✓