

Production Test

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)

West 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 Huerfano Unit Well No. 44
Unit H Sec. 4 Twp. 26 Rge. 10 Pay Zone: From 2355 To 2385
Casing: OD 5 1/2 WT. 14 Set At 2355 Tubing: OD 2 WT. 4.7 T. Perf. 2301
Produced Through: Casing I Tubing _____ Gas Gravity: Measured _____ Estimated _____
Date of Flow Test: From 2/21 To 2/29 * Date S.I.P. Measured 3/7/56
Meter Run Size 4 Orifice Size .375 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 219 psig + 12 = 231 psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) 219 psig + 12 = 231 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (6.89)² x spring constant 5 = 237 psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ = -6 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 0 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.90)² x sp. const. 5 = 238 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 232 psia (h)
P_t = (h) + (f) = 232 psia (i)
Wellhead casing shut-in pressure (Dwt) 429 psig + 12 = 441 psia (j)
Wellhead tubing shut-in pressure (Dwt) 428 psig + 12 = 440 psia (k)
P_c = (j) or (k) whichever well flowed through = 441 psia (l)
Flowing Temp. (Meter Run) 37 °F + 460 = 497 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 221 psia (n)

FLOW RATE CALCULATION

Q = 15 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{.9747}{.9873} \right)^* = \underline{15} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 15 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{145,640}{140,657} \times \frac{1.0354}{1.0300} = \underline{15} MCF/da.$

SUMMARY

P_c = 441 psia
Q = 15 Mcf/day
P_w = 232 psia
P_d = 221 psia
D = 15 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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
			FRICTION NEGLIGIBLE			

D @ 250 = 14



OIL CONSERVATION COMMISSION		
ATTEC DISTRICT OFFICE		
for Carlos R. ...		
IN ...		
	1	
	1	
	1	✓