

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 Astec Pictured Cliff Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Schultz State Well No. 5-16
Unit D Sec. 16 Twp. 29N Rge. 10W Pay Zone: From 2132 To 2206
Casing: OD 5 1/2 WT. 15.5 Set At 2132 Tubing: OD 1 WT. 1.68 T. Perf. 2161
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .660 Estimated _____
Date of Flow Test: From 2/20/57 To 2/28/57 * Date S.I.P. Measured _____
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 (7.30) ² x sp. const. 5 _____ = 252 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 252 psia (h)
P_t = (h) + (f) _____ = 252 psia (i)
Wellhead casing shut-in pressure (Dwt) 637 psig + 12 = 649 psia (j)
Wellhead tubing shut-in pressure (Dwt) 637 psig + 12 = 649 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 649 psia (l)
Flowing Temp. (Meter Run) 52 °F + 460 _____ = 512 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 325 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{376}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 376 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{338}$ MCF/da.
 $\frac{115,576}{357,697}$ $\frac{.8822}{.8990}$

SUMMARY

P_c = 649 psia Company El Paso Natural Gas Company
Q = 376 Mcf/day By Richard A. Ullrich
P_w = 252 psia Title _____
P_d = 325 psia Witnessed by _____
D = 338 Mcf/day 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° = 371

OK



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