

72471
Initial Deliverability
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)

Pool South Blanco Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Schwerdtfeger Well No. 16-A

Unit C Sec. 21 Twp. 27 Rge. 8 Pay Zone: From 2372 To 2408

Casing: OD 5½ WT. 15.5# Set At 2456 Tubing: OD 1½ WT. 2.4 T. Perf. 2336

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .656 Estimated _____

Date of Flow Test: From 9-29 To 10-7-59 * Date S.I.P. Measured 8-5-59 (10 Days)

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 216 psig + 12 = 228 psia (g)

Square root chart average reading () ² x sp. const. _____ = 228 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 228 psia (h)

P_t = (h) + (f) _____ = 228 psia (i)

Wellhead casing shut-in pressure (Dwt) 595 psig + 12 = 607 psia (j)

Wellhead tubing shut-in pressure (Dwt) 595 psig + 12 = 607 psia (k)

P_c = (j) or (k) whichever well flowed through 61 _____ = 607 psia (l)

Flowing Temp. (Meter Run) _____ °F + 460 _____ = 521 °Abs (m)

P_d = ½ P_c = ½ (l) _____ = 304 psia (n)

$$Q = \frac{1594}{8} \times \left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right) = 574$$

DELIVERABILITY CALCULATION

$$D = Q \frac{574}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{276033}{295495} \right]^n} = 542$$

SUMMARY

P_c = 607 psia
Q = 574 Mcf/day
P_w = 270 psia
P_d = 304 psia
D = 542 Mcf/day

EL PASO NATURAL GAS COMPANY
By Original Signed
Title _____
Witnessed by Harold L. Kendrick
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
1532	.105	199.713	20,970	51984	72,954	270

D250 = 548

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