

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 Fulcher Kutz Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____

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

Unit D Sec. 19 Twp. 27 Rge. 9 Pay Zone: From 2391 To 2457

Casing: OD 5-1/2 WT. 14 Set At 2391 Tubing: OD 1" WT. 1.70 T. Perf. Shot-Hole

Produced Through: Casing X Tubing _____ Gas Gravity: Measured .649 Estimated _____

Date of Flow Test: From 7/7/60 To 7/15/60 * Date S.I.P. Measured 4/6/60

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 206 psig + 12 = 218 psia (g)
Square root chart average reading (_____)² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 218 psia (h)
P_t = (h) + (f) _____ = 218 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 374 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 374 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 374 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 187 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^n = \underline{254}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 254 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{283}$ MCF/da
 $\frac{1.1359^{.85}}{1.1142}$

SUMMARY

P_c = 374 psia Company El Paso Natural Gas
Q = 254 Mcf/day By Original Signed
P_w = 218 psia Title _____
P_d = 187 psia Witnessed by Harold L. Kendrick
D = 283 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 at 250 = 204

An intermitter was installed to facilitate the removal of liquids from the wellbore.

Handwritten signature

