

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 Otero Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline _____ Date Test Filed _____
Operator El Paso Natural Gas Lease Bolack Well No. 1-D
Unit I Sec. 13 Twp. 24N Rge. 6W Pay Zone: From 2110 To 2183
Casing: OD 5-1/2 WT. 15.5 Set At 2203 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2110
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .656 Estimated _____
Date of Flow Test: From 2-21-58 To 3-1-58 * Date S.I.P. Measured 7-17-57 (9days)
Meter Run Size _____ Orifice Size .500 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.55)² x sp. const. 500 = 215 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 215 psia (h)
P_t = (h) + (f) = 215 psia (i)
Wellhead casing shut-in pressure (Dwt) 711 psig + 12 = 723 psia (j)
Wellhead tubing shut-in pressure (Dwt) 711 psig + 12 = 723 psia (k)
P_c = (j) or (k) whichever well flowed through = 723 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 362 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/2}}{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/2}} \times \left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/2} = 56 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/2} = 56 \left[\frac{391685}{476504} \right]^{1/2} = 47 \text{ MCF/day}$$

SUMMARY

P_c = 723 psia
Q = 56 Mcf/day
P_w = 215 psia
P_d = 362 psia
D = 47 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 at 250 = 54



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