

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 Wichita Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Hughes Well No. 4-29
Unit A Sec. 29 Twp. 26 Rge. 7 Pay Zone: From 2907 To 2932
Casing: OD 5 1/2 WT. 15.5 Set At 3011 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 2895
Produced Through: Casing I Tubing _____ Gas Gravity: Measured .650 Estimated _____
Date of Flow Test: From 4/30/57 To 5/9/57 Date S.I.P. Measured 2/12/57 (24 days)
Meter Run Size 4 Orifice Size .250 Type Chart Sq. Rt. Type Taps Flange

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 (7.20)² x sp. const. 5 _____ = 259 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 259 psia (h)
P_t = (h) + (f) _____ = 259 psia (i)
Wellhead casing shut-in pressure (Dwt) 753 psig + 12 = 765 psia (j)
Wellhead tubing shut-in pressure (Dwt) 758 psig + 12 = 770 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 765 psia (l)
Flowing Temp. (Meter Run) 58 °F + 460 _____ = 518 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 383 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{27} \text{ MCF/da}$
(Integrated) $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 27 $\left[\frac{(P_c^2 - P_d^2) = \text{438,536}}{(P_c^2 - P_w^2) = \text{518,144}} \right]^n \cdot \frac{.8463}{.8679} = \text{23} \text{ MCF/da.}$

SUMMARY

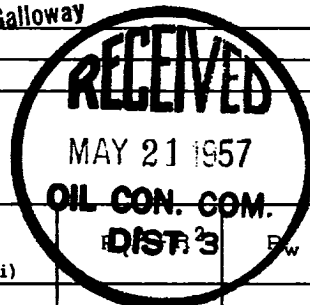
P_c = 765 psia
Q = 27 Mcf/day
P_w = 259 psia
P_d = 383 psia
D = 23 Mcf/day

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 _w
FRICTION NEGLIGIBLE					



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