

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

Operator El Paso Natural Gas Lease Storey Well No. 1-3
Unit 0 Sec. 22 Twp. 28 Rge. 9 Pay Zone: From 3212 To 3248
Casing: OD 5 1/2 WT. 15.5 Set At 3309 Tubing: OD 1 1/4 WT. 2.3 T. Perf. 3249
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .620 Estimated _____
Date of Flow Test: From 4/30 To 5/9/57 * Date S.I.P. Measured 11/12/56 (8 days)
Meter Run Size 4 Orifice Size 1.250 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 (7.00) ² x sp. const. 10 _____ = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 490 psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) 754 psig + 12 = 766 psia (j)
Wellhead tubing shut-in pressure (Dwt) 754 psig + 12 = 766 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 766 psia (l)
Flowing Temp. (Meter Run) 56 °F + 460 _____ = 516 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 383 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{_____}}{\sqrt{(d)}} = \text{_____}} \right)^{1/2} = \text{364} \text{ MCF/da}$
(integrated)

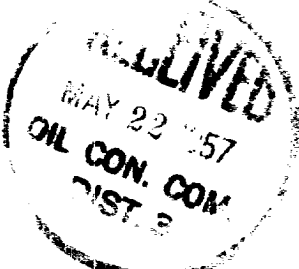
DELIVERABILITY CALCULATION
D = Q 364 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.2694}{1.2215} = \text{446} \text{ MCF/da.}$
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{440,067}{346,656}$

SUMMARY
P_c = 766 psia
Q = 364 Mcf/day
P_w = 490 psia
P_d = 383 psia
D = 446 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 + P _w ²	P _w
FRICTION NEGLIGIBLE						

D @ 250 = 512



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