

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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Ludwick Well No. 12
Unit N Sec. 19 Twp. 30N Rge. 10W Pay Zone: From 4866 To 5068
Casing: OD 5 1/2 WT. 15.5 Set At 4235 Tubing: OD 2 WT. 4.7 T. Perf. 5042
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 3/8 To 3/17/57 * Date S.I.P. Measured 10/3/56
Meter Run Size _____ Orifice Size 1.500 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:
(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 (6.75) ² x sp. const. 1000 _____ = 156 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 156 psia (h)
P_f = (h) + (f) _____ = 156 psia (i)
Wellhead casing shut-in pressure (Dwt) 1122 psig + 12 = 1134 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1122 psig + 12 = 1134 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1134 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 567 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{764} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 764 $\left[\frac{(P_c^2 - P_d^2) = \frac{964,467}{1,066,566}}{\frac{P_c^2 - P_w^2}{1,066,566}} \right]^n \frac{.9842}{.9272} = \text{708} \text{ MCF/da.}$

SUMMARY

P_c = 1134 psia Company El Paso Natural Gas Company
Q = 764 Mcf/day By _____
P_w = 468 psia Title _____
P_d = 567 psia Witnessed by _____
D = 708 Mcf/day Company _____

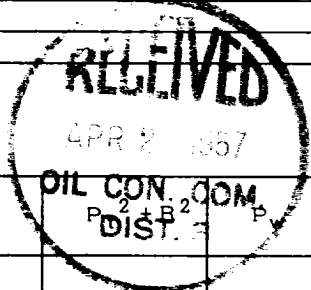
* This is date of completion test.
* Meter error correction factor

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 ₂ ² + B ₂ ² Q _p ²	P ₁ ²
3454	.222	51.595	11,454	207,936	219,390	468

D @ 500 = 735

8/16



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