

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 Wildcat Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Marfano Unit Well No. 55
Unit H Sec. 27 Twp. 26N Rge. 9W Pay Zone: From 2004 To 2017
Casing: OD 5 1/2 WT. 25.5 Set At 2060 Tubing: OD 1 3/4 WT. 2.3 T. Perf. 1991
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .680 Estimated _____
Date of Flow Test: From 3/8/57 To 3/17/57 * Date S.I.P. Measured 11/24/56
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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.75) ² x sp. const. 500 _____ = 228 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 228 psia (h)
P_t = (h) + (f) _____ = 228 psia (i)
Wellhead casing shut-in pressure (Dwt) 602 psig + 12 = 614 psia (j)
Wellhead tubing shut-in pressure (Dwt) 602 psig + 12 = 614 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 614 psia (l)
Flowing Temp. (Meter Run) 49 °F + 460 _____ = 509 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 307 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{52} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 52} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{46} \text{ MCF/da.}$$

SUMMARY

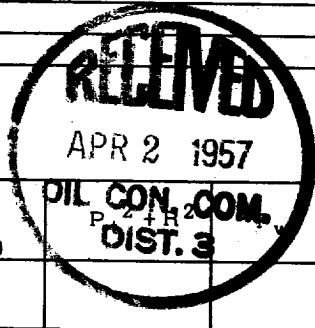
P_c = 614 psia
Q = 52 Mcf/day
P_w = 228 psia
P_d = 307 psia
D = 46 Mcf/day

Company El Paso Natural Gas Company
By _____
Title _____
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})	P _t ²	P _t ² + R ₂ ²
			R ²	(Column i)	
			FRICTION CALCULATION		



D = 250 = 50

OK

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