

74 870
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 So. Blanco Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator ENX Lease Jicarilla Well No. 67-7 (P)
Unit G Sec. 20 Twp. 25 Rge. 5 Pay Zone: From 2694 To 2742
Casing: OD 7-5/8 WT. 26.4# Set At 3726 Tubing: OD 1-1/4 WT. 2.4# T. Perf. 2690
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .686 Estimated _____
Date of Flow Test: From 9-22-59 To 9-29-59 * Date S.I.P. Measured 6-25-59 (17 days)
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 233 psig + 12 = 245 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 245 psia (h)
P_t = (h) + (f) _____ = 245 psia (i)
Wellhead casing shut-in pressure (Dwt) 824 psig + 12 = 836 psia (j)
Wellhead tubing shut-in pressure (Dwt) 824 psig + 12 = 836 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 836 psia (l)
Flowing Temp. (Meter Run) 63 °F + 460 _____ = 523 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 418 psia (n)

Q = $\frac{1441}{183} \times 24$ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^n = 189$ Mcf/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 189 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = 160$ Mcf/day
524172 .8239
636143 .8482

SUMMARY

P_c = 836 psia Company El Paso Natural Gas Company
Q = 189 Mcf/day By Original Signed
P_w = 251 psia Title _____
P_d = 418 psia Witnessed by Harold L. Kendrick
D = 160 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 _t ² + R ²	P _w
1845	.126	21.650	2,728	60025	62753	251