

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)

72-514

Pool Undesignated Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Loderick Well No. 8
Unit P Sec. 19 Twp. 27 Rge. 9 Pay Zone: From 6702 To 6954
Casing: OD 5-1/2 WT. 15.5 Set At 7072 Tubing: OD 2 WT. 4.7 T. Perf. 6981
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .664 Estimated _____
Date of Flow Test: From 12/22/59 To 12/30/59 * Date S.I.P. Measured 10/27/59
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 (7.05) ² x sp. const. 10 = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 497 psia (h)
P_t = (h) + (f) _____ = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) 1928 psig + 12 = 1940 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1716 psig + 12 = 1728 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1940 psia (l)
Flowing Temp. (Meter Run) 73 °F + 460 _____ = 533 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 970 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right) = \underline{1050} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1050 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{896} \text{ MCF/day}$
2822700 .8090
3488719 .8531

SUMMARY

P_c = 1940 psia Company El Paso Natural Gas
Q = 1050 Mcf/day By Original Signed
P_w = 524 psia Title Harold L. Kendrick
P_d = 970 psia Witnessed by _____
D = 896 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
4635	.286	97.456	27.872	247009	274881	524

+ Used Casing SIP because tubing SIP was too low.

D at 500 = 1047

