

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 Banda Formation Dakota County NJ
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Shawart Well No. 6
Unit I Sec. 28 Twp. 30 Rge. 10 Pay Zone: From 717 To 740
Casing: OD 3300 WT. 1700 Set At 7330 Tubing: OD 2375 WT. 0670 T. Perf. 7262
Produced Through: Casing X Tubing X Gas Gravity: Measured .658 Estimated _____
Date of Flow Test: From 5-24-61 To 5-25-61 * Date S.I.P. Measured 8-30-60
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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 183 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 183 psia (h)
P_t = (h) + (f) _____ = 2049 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 2073 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 2073 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 1097 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

Q = 634 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{1.0000}{\sqrt{(d)}} = \frac{1.0000}{\sqrt{(d)}}} \right) = \underline{634} MCF/da
(Integrated)$

DELIVERABILITY CALCULATION

D = Q 634 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{534} MCF/da.$

SUMMARY

P_c = 2073 psia
Q = 634 Mcf/day
P_w = 183 psia
P_d = 1097 psia
D = 534 Mcf/day

Company El Paso Natural Gas Co.
By H. L. Kendrick Sr. Gas Engineer
Title Original signed by
Witness H. L. Kendrick
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
<u>4776</u>	<u>.295</u>	<u>3554</u>	<u>1041</u>	<u>23589</u>	<u>24700</u>	<u>494</u>

D at 500 = 634

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