

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 Basin Formation Dakota County DJ
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____
Operator El Paso Natural Gas Co. Lease Barreno Unit Well No. 125
Unit 1 Sec. 30 Twp. 26 Rge. 09 Pay Zone: From 6524 To 6632
Casing: OD 5500 WT. 1550 Set At 6776 Tubing: OD 2375 WT. 0470 T. Perf. 6594
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .738 Estimated _____
Date of Flow Test: From 5-14-61 To 5-21-61 * Date S.I.P. Measured 3-14-61
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 (_____) ² x sp. const. _____ = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 490 psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 1935 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 1891 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1935 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 946 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{1511}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1.0000}{1.0000} = 1.0000 \right) = 1511 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1511}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.8147}} = \frac{.8576}{.8576} = 1124 \text{ MCF/da.}$$

SUMMARY

P_c = 1935 psia Company El Paso Natural Gas Co.
Q = 1511 Mcf/day By H. L. Kendrick
P_w = 534 psia Title Original signed by Sr. Gas Engineer
P_d = 946 psia Witnessed by _____
D = 1124 Mcf/day Company H. L. Kendrick

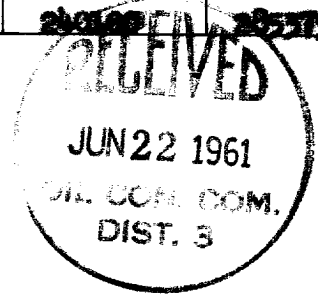
* This is date of completion test.
* Meter error correction factor

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
4866	.298	151930	45275	234100	234100	534

D at 500 = 1304

CORRECTED Q₁₀₀



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