

Initial Deliverability
Test
72926

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 San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____
Operator El Paso Natural Gas Lease Lachy Well No. 22-B
Unit N Sec. 21 Twp. 28 Rge. 9 Pay Zone: From 6970 To 7150
Casing: OD 5-1/2 WT. 17 Set At 7215 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 7051
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .695 Estimated _____
Date of Flow Test: From 5/29/62 To 6/6/62 * Date S.I.P. Measured 9/23/60
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:
(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. _____ = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 504 psia (h)
P_t = (h) + (f) _____ = 504 psia (i)
Wellhead casing shut-in pressure (Dwt) 1938 psig + 12 = 1950 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1916 psig + 12 = 1938 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1938 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 539 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 969 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) = \underline{775} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 775 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{661} \text{ MCF/da.}$
 $\frac{2836883}{3425098} = \frac{.8089}{.8523}$

SUMMARY

P_c = 1938 psia Company El Paso Natural Gas
Q = 775 Mcf/day By _____
P_w = 520 psia Title Original signed by
P_d = 969 psia Witnessed by H. L. Kendrick
D = 661 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
1900	0.300	53100	15930	251016	269946	520

D at 500 = 774



