

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVARDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool South Elmore Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease G. Hughes Well No. 8-4
Unit L Sec. 4 Twp. 27 Rge. 9 Pay Zone: From 2445 To 2509
Casing: OD 5 1/2 WT. 15.5 Set At 2450 Tubing: OD 1 WT. 1.68 T. Perf. 2469
Produced Through: Casing I Tubing _____ Gas Gravity: Measured .645 Estimated _____
Date of Flow Test: From 4/30 To 5/8 * Date S.I.P. Measured 12/9/55
Meter Run Size 4 Orifice Size _____ Type Chart sq. rt. Type Taps Flange

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 (7.75) ² x sp. const. 5 _____ = 306 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 306 psia (h)
P_t = (h) + (f) _____ = 306 psia (i)
Wellhead casing shut-in pressure (Dwt) 672 psig + 12 = 684 psia (j)
Wellhead tubing shut-in pressure (Dwt) 672 psig + 12 = 684 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 684 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 342 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{306} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 306 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{287} \text{ MCF/da.}$
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{350,892}{377,856}$ n $\frac{.9286}{.9390}$

SUMMARY

P_c = 684 psia
Q = 306 Mcf/day
P_w = 300 psia
P_d = 342 psia
D = 287 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
Witnessed by _____
Company _____

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

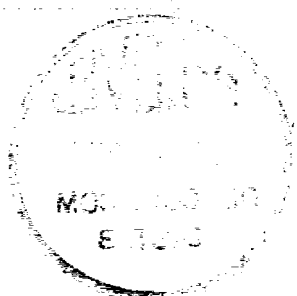
REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-s})	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _t ² (Column i)	P _t ² + R ²	P _w
			<u>FRICITION DELIVERABILITY</u>			

20 250 = 321

OK





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