

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 South Elmore Extension Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease Henry Well No. 9-1 (7)
Unit L Sec. 34 Twp. 28 Rge. 9 Pay Zone: From 2046 To 2050
Casing: OD 7-1/8 WT. 26.4 Set At 3032 Tubing: OD 2" WT. 4.7 T. Perf. 3032
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .705 Estimated _____
Date of Flow Test: From 7/13/57 To 8/2/57 * Date S.I.P. Measured 4-9-57
Meter Run Size 1/2 Orifice Size 1.030 Type Chart sq. ft. Type Taps 2

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 (6.90) ² x sp. const. 1800 = 476 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 476 psia (h)
P_t = (h) + (f) _____ = 476 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 609 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 609 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 907 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 300 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{416} \text{ MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 416 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{933} \text{ MCF/day}$
 $\frac{1.3071}{1.3005}$

SUMMARY

P_c = 609 psia
Q = 416 Mcf/day
P_w = 476 psia
P_d = 300 psia
D = 933 Mcf/day

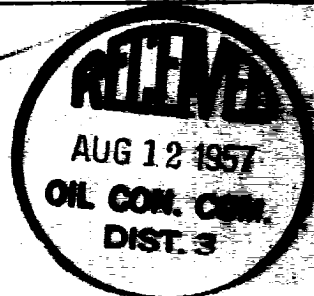
Company EL PASO NATURAL GAS COMPANY
By Original Signed
Title L. B. Smith, Jr., Gas Engineer
Witnessed by _____
Company _____

* 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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w

3 at 290 = 601



12
12

12

