

Initial Deliverability
Test
70270

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)

Form C-1
Revised April 20, 1955



Pool Himco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Marshall Well No. 2
Unit H Sec. 25 Twp. 28 Rge. 8 Pay Zone: From 1458 To 1604
Casing: OD 5 WT. 15 Set At 6884 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 1679
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .732 Estimated _____
Date of Flow Test: From 4/28/61 To 5/6/61 * Date S.I.P. Measured 5/12/60
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 _____ 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. _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ psia (h)
P_t = (h) + (f) _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 740 psig + 12 = 752 psia (j)
Wellhead tubing shut-in pressure (Dwt) 740 psig + 12 = 752 psia (k)
P_c = (j) or (k) whichever well flowed through _____ psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 = 536 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{230} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 230 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{291} \text{ MCF/da.}$
 $\frac{1.3461}{1.2638}$

SUMMARY

P_c = 752 psia
Q = 230 Mcf/day
P_w = 505 psia
P_d = 376 psia
D = 291 Mcf/day

Company El Paso Natural Gas
By _____
Title Original signed by
Witnessed by 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
3125	.220	1674	1028		254016	255044	505

D at 500 = 225

An intermitter was installed. Turned back on production 4/11/61.

