

Initial Deliverability
Test
72-451

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 Astec Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Murphy Well No. 2-1
Unit 6 Sec. 2 Twp. 29 Rge. 11 Pay Zone: From 2052 To 2082
Casing: OD 5-1/2 WT. 15.5 Set At 2152 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2063
Produced Through: Casing 8/22/59 Tubing 8/30/59 Gas Gravity: Measured 5/19/59 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured _____
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): 216 228
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 228 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 228 psia (h)
P_t = (h) + (f) 549 _____ = 561 psia (i)
Wellhead casing shut-in pressure (Dwt) 482 psig + 12 = 594 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 561 psia (k)
P_c = (j) or (k) whichever well flowed through 67 _____ = 527 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 281 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{853}{\text{MCF/da}}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 853 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{.8973}{.9119} = \frac{778}{\text{MCF/da.}}$

SUMMARY

P_c = 561 psia
Q = 228 Mcf/day
P_w = 281 psia
P_d = 778 psia
D = _____ Mcf/day

El Paso Natural Gas

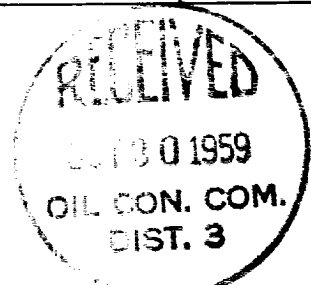
Company _____
By Original Signed
Title Harold L. Kendrick
Witnessed by _____
Company _____

- * 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
			Friction Negligible			

D at 250 = 807



OK