

Initial Deliverability
Test

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 Hilmar Formation Kewa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 32-9 Unit Well No. 40
Unit 1 Sec. 30 Twp. 32 Rge. 9 Pay Zone: From 5423 To 5842
Casing: OD 54 WT. 13.5 Set At 5911 Tubing: OD 2 WT. 4.7 T. Perf. 5800
Produced Through: Casing _____ Tubing 1 Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 5/9/57 To 5/17/57 * Date S.I.P. Measured 11/20/56 (11 days)
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 (7.35) ² x sp. const. 10 _____ = 510 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 510 psia (h)
P_t = (h) + (f) _____ = 510 psia (i)
Wellhead casing shut-in pressure (Dwt) 963 psig + 12 = 975 psia (j)
Wellhead tubing shut-in pressure (Dwt) 968 psig + 12 = 980 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 980 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 _____ = 521 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 490 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{V(c)}{V(d)} \right) = \underline{578}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 578 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{626}$ MCF/da.
 $\frac{1.0888}{1.0659}$

SUMMARY

P_c = 980 psia
Q = 578 Mcf/day
P_w = 517 psia
P_d = 490 psia
D = 626 Mcf/day

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

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

REMARKS OR FRICTION CALCULATIONS

GL	OM (hr ⁻¹)	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _t ² (Column i)	P _t ² + R ²	P _w
			R ²			
<u>3046</u>	<u>.214</u>	<u>29,528</u>	<u>7264</u>	<u>291,600</u>	<u>298,864</u>	<u>517</u>

D @ 500 = 597



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