

74809
Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Angel Peak Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Co. Lease Huerfano Well No. 107 (D)
Unit E Sec. 35 Twp. 27 Rge. 10 Pay Zone: From 6934 To 7007
Casing: OD 5 1/2 WT. 17 1/2 Set At 7014 Tubing: OD 2 WT. 4.7 T. Perf. 6950
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .725 Estimated _____
Date of Flow Test: From 9-21-59 To 9-29-59 * Date S.I.P. Measured 2-12-59 (12 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): 471
Normal chart average reading _____ psig + 12 = 483 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 483 psia (h)
P_t = (h) + (f) _____ = 483 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1845 psig + 12 = 1857 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1857 psia (l)
Flowing Temp. (Meter Run) 87 °F + 460 _____ = 547 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 929 psia (n)

Q = 7742 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right) = \underline{\underline{969}}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 969 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{\underline{828}}$ MCF/day
 $\frac{.8105}{.8542}$

SUMMARY
P_c = 1857 psia
Q = 969 Mcf/day
P_w = 509 psia
P_d = 929 psia
D = 828 Mcf/day

EL PASO NATURAL GAS COMPANY
Company _____
By Original Signed
Title _____
Witnessed by Harold L. Kandrick
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 l)	P _t ² + R ²	P _w
5039	.307	83.001	25,481	23389	238770	509

B500 -" 962

