

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 Blanco NW Formation Mesaverde County RA
Purchasing Pipeline E1 Paso Natural Gas Co Date Test Filed 1/31/57
Operator Blackwood & Nichols Lease NE Blanco Unit Well No. 11-25
Unit H Sec. 25 Twp. 31N Rge. 7W Pay Zone: From _____ To _____
Casing: OD _____ WT. _____ Set At _____ Tubing: OD 2" WT. 4.7 T. Perf. 5481
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .580 Estimated _____
Date of Flow Test: From 12/24/56 To 12/31/56 Date S.I.P. Measured 12/6/56
Meter Run Size 4" Orifice Size .500 Type Chart Sq Rt Type Taps Flange

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 (5.45) ² x sp. const. 15.00 _____ = 446 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 446 psia (i)
Wellhead casing shut-in pressure (Dwt) 885 psig + 12 = 897 psia (j)
Wellhead tubing shut-in pressure (Dwt) 890 psig + 12 = 902 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 902 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 _____ = 528 ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 451 psia (n)

FLOW RATE CALCULATION

Q = 392 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 392 $\left[\frac{(P_c^2 - P_d^2) = 310,203}{(P_c^2 - P_w^2) = 612,003} \right]^n \cdot 1.000 \cdot 9977 = 392$ MCF/da. 39/

SUMMARY

P_c = 902 psia
Q = 392 Mcf/day
P_w = 449 psia
P_d = 451 psia
D = 392 Mcf/day

Company Geolectric, Inc
By W.J. McConathy *W. J. McConathy*
Title Agent
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3179</u>	<u>.206</u>	<u>13.584</u>	<u>2.798</u>	<u>198.916</u>	<u>201.714</u>	<u>449.1</u>

INITIAL PRODUCTION TEST AFTER WORKOVER



OK

