

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 SOUTH BLANCO Formation PICTURED CLIFFS County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 4-29-57
Operator J. GLENN TURNER Lease MESQUERITO UNIT Well No. 56-23
Unit B Sec. 23 Twp. 27N Rge. 9W Pay Zone: From 2075 To 2227
Casing: OD 5-1/2" WT. 15.5# Set At 2227 Tubing: OD 1" WT. 1.7# T. Perf. 2105
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.660 Estimated _____
Date of Flow Test: From 3-16-57 To 3-24-57 * Date S.I.P. Measured 10-20-56
Meter Run Size 4" Orifice Size 1.750 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 (8.00) ² x sp. const. 5 = 320 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 320 psia (h)
P_t = (h) + (f) = 320 psia (i)
Wellhead casing shut-in pressure (Dwt) 710 psig + 12 = 722 psia (j)
Wellhead tubing shut-in pressure (Dwt) 710 psig + 12 = 722 psia (k)
P_c = (j) or (k) whichever well flowed through = 722 psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 = 517 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 361 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 817 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n =$ 0.943 = 770 MCF/da.

SUMMARY

P_c = 722 psia
Q = 817 Mcf/day
P_w = 320 psia
P_d = 361 psia
D = 770 Mcf/day

Company J. GLENN TURNER
By Chig R. Banks
Title Engineer
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁵)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁵) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
			Friction negligible			

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