

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 Ballard Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Co Date Test Filed April 25, 1956
Operator J. Glenn Turner Lease Huerfano Unit Well No. 32-33
Unit D Sec. 33 Twp. 27N Rge. 9W Pay Zone: From 2295 To 2362
Casing: OD 5 1/2" WT. 14# Set At 2296 Tubing: OD 1" WT. 1.7# T. Perf. 2322
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.640 Estimated _____
Date of Flow Test: From 3-16-56 To 3-23-56* Date S.I.P. Measured Jan 20, 1956
Meter Run Size 4" Orifice Size 0.750 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 (7.80) ² x sp. const. 5m _____ = 304 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 304 psia (h)
P_t = (h) + (f) _____ = 304 psia (i)
Wellhead casing shut-in pressure (Dwt) 611 psig + 12 = 623 psia (j)
Wellhead tubing shut-in pressure (Dwt) 611 psig + 12 = 623 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 623 psia (l)
Flowing Temp. (Meter Run) 46 °F + 460 _____ = 506 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 311 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right) = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ } \underline{53} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{291,000}{296,000} \right]^n \text{ } \underline{0.9855} = \underline{52} \text{ MCF/da.}$$

SUMMARY

P_c = 623 psia
Q = 53 Mcf/day
P_w = 304 psia
P_d = 311 psia
D = 52 Mcf/day

Company J. Glenn Turner
By Glenn Turner
Title Engineer
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
Friction Negligible						



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