

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 Otero Formation Picture Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 1-10-57

Operator Gulf Oil Corporation Lease Apache Federal Well No. 7
Unit G Sec. 17 Twp. 24N Rge. 5E Pay Zone: From 2392 To 2409
Casing: OD 4" WT. 9.5 Set At 2467 Tubing: OD 2 5/8" WT. 4.7 T. Perf. 2420
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .680 Estimated _____
Date of Flow Test: From 12-16-56 To 12-24-56 * Date S.I.P. Measured 12-30-56
Meter Run Size 4" Orifice Size .500 Type Chart Sq. Rt. Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) 277 psig + 12 = 289 psia (a)
Flowing tubing pressure (Dwt) 277 psig + 12 = 289 psia (b)
Flowing meter pressure (Dwt) 277 psig + 12 = 289 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.6)² x spring constant .500 = 289 psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ psi (e)
Friction loss, Flowing column to meter: _____ psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
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. .500 = 270 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 270 psia (h)
P_t = (h) + (f) = 270 psia (i)
Wellhead casing shut-in pressure (Dwt) 464 psig + 12 = 476 psia (j)
Wellhead tubing shut-in pressure (Dwt) 464 psig + 12 = 476 psia (k)
P_c = (j) or (k) whichever well flowed through = 476 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 = 497 °Abs (m)
P_d = ½ P_c = ½ (l) = 238 psia (n)

Q = 41 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}} = \frac{17.00}{17.00} = 1.000 \right)^* = \underline{41} \text{ MCF/da}$
(integrated)

D = Q 41 $\left[\frac{\text{DELIVERABILITY CALCULATION}}{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^n} = \frac{139,932}{153,676} = 1.090 \right]^n = \underline{45} \text{ MCF/da.}$

SUMMARY

P_c = 476 psia
Q = 41 Mcf/day
P_w = 270 psia
P_d = 238 psia
D = 45 Mcf/day

Company Well Production Co.
By L. A. Neely
Title Owner
Witnessed by _____
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 i)	P _t ² + R ²	P _w



OK *Leitch*