

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 J. Paso Natural Gas Co. Date Test Filed 1-10-57

Operator Gulf Oil Corporation Lease Apache Federal Well No. 6
Unit G Sec. 7 Twp. 24N Rge. 5 Pay Zone: From 3322 To 3400
Casing: OD 4" WT. 9.5 Set At 2.45 Tubing: OD 2 3/8" WT. 4.7 T. Perf. 3400
Produced Through: Casing X Tubing Gas Gravity: Measured .680 Estimated
Date of Flow Test: From 1-10-56 To 1-24-56 * Date S.I.P. Measured 1-30-56
Meter Run Size 4" Orifice Size 1.500 Type Chart Std. Rt. Type Taps

OBSERVED DATA

Flowing casing pressure (Dwt) 284 psig + 12 = 296 psia (a)
Flowing tubing pressure (Dwt) 284 psig + 12 = 296 psia (b)
Flowing meter pressure (Dwt) 284 psig + 12 = 296 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 7.7 psig + 12 = 296 psia (d)
Square root chart reading (7.7)² x spring constant .500 = 296 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 0 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 0 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 7.45 psig + 12 = 278 psia (g)
Square root chart average reading (7.45)² x sp. const. .500 = 278 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 278 psia (h)
P_t = (h) + (f) = 278 psia (i)
Wellhead casing shut-in pressure (Dwt) 472 psig + 12 = 484 psia (j)
Wellhead tubing shut-in pressure (Dwt) 472 psig + 12 = 484 psia (k)
P_c = (j) or (k) whichever well flowed through = 484 psia (l)
Flowing Temp. (Meter Run) 51 °F + 460 = 511 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 242 psia (n)

Q = 607 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{17.30}{17.30} = 1.000} \right) = \underline{607}$ MCF/da
(integrated)

D = Q 607 $\left[\frac{\left(\begin{array}{l} P_c^2 - P_d^2 = 178,592 \\ P_c^2 - P_w^2 = 156,972 \end{array} \right)}{1.119} \right]^{.85} = \underline{673}$ MCF/da.

SUMMARY

P_c = 484 psia
Q = 607 Mcf/day
P_w = 278 psia
P_d = 242 psia
D = 673 Mcf/day

Company Oil Production Co.
By J. A. Feely
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



CK
Initial