

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 West Kutz Formation Picture Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 1-4-60
Operator Calto Oil Company Lease Navajo Well No. 1
Unit M Sec. 3 Twp. 26N Rge. 11W Pay Zone: From 1794 To 1860
Casing: OD 5 1/2 WT. 14.00 Set At 1794 Tubing: OD 1.315 WT. 1.68 T. Perf. 1850
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .658 Estimated _____
Date of Flow Test: From 12-15-59 To 12-22-59 * Date S.I.P. Measured 11-16-59
Meter Run Size 4" Orifice Size .375 Type Chart Sq. Rt. Type Taps _____

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 (7.35)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) = 454 psia (i)
Wellhead casing shut-in pressure (Dwt) 442 psig + 12 = 454 psia (j)
Wellhead tubing shut-in pressure (Dwt) 442 psig + 12 = 454 psia (k)
P_c = (j) or (k) whichever well flowed through = 454 psia (l)
Flowing Temp. (Meter Run) 36 °F + 460 = 496 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 227 psia (n)

Q = 25 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right)^* = \text{_____ MCF/da}$
(Integrated)

D = Q 25 $\left[\frac{\left(\begin{array}{l} P_c^2 - P_d^2 \\ P_c^2 - P_w^2 \end{array} \right)}{\frac{154587}{133216}} \right]^n \frac{.85}{1.1345} = \text{28 MCF/da.}$

SUMMARY

P_c = 454 psia
Q = 25 Mcf/day
P_w = 270 psia
P_d = 227 psia
D = 28 Mcf/day

Company Well Production Company
By N.A. Neely
Title Agent
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
			None			

