

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 Pictured Cliff Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-2-57
Operator The Superior Oil Company Lease Sloan et al Government Well No. 1-12
Unit P Sec. 12 Twp. 24N Rge. 6W Pay Zone: From 2128 To 2160
Casing: OD 5 1/2 WT. 14# Set At 2212 Tubing: OD 2" WT. 4.70# T. Perf. 2156
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.675 Estimated _____
Date of Flow Test: From 2-8-57 To 2-16-57 * Date S.I.P. Measured 8-14-56
Meter Run Size 4.026 Orifice Size 0.750 Type Chart 8 Day Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 288 psig + 12 = 300 psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) 288 psig + 12 = 300 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.75)² x spring constant 5 = 300 psia (d)
Meter error (c) - (d) or (d) - (c) _____ = 0 psi (e)
Friction loss, Flowing column to meter: _____ = 0 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 (7.75)² x sp. const. 5 = 300 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 300 psia (h)
P_t = (h) + (f) = 300 psia (i)
Wellhead casing shut-in pressure (Dwt) 734 psig + 12 = 746 psia (j)
Wellhead tubing shut-in pressure (Dwt) 734 psig + 12 = 746 psia (k)
P_c = (j) or (k) whichever well flowed through = 746 psia (l)
Flowing Temp. (Meter Run) 48 °F + 460 = 508 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 373 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{124}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{17.32}{17.32} = 1.00 \right)^* = 124 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{124}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.9098}} = 113 \text{ MCF/day}$$

SUMMARY

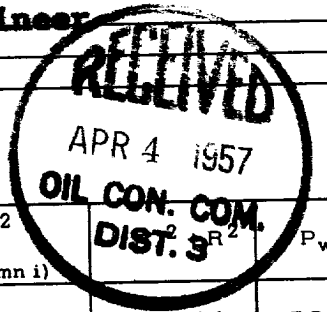
P_c = 746 psia
Q = 124 Mcf/day
P_w = 300 psia
P_d = 373 psia
D = 113 Mcf/day

Company The Superior Oil Company
By J. M. Brittain
Title Gas Engineer
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(FQ) ²	(FcQ) ² (1-e ^{-S})	P _t ²	P _w
		R ²		(Column i)	
1436	0.099	0.039172	.0038780	90.000	300



OK

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