

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 South Blanco 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 Government Well No. 1-12
Unit P Sec. 12 Twp. 25N Rge. 6W Pay Zone: From 2864 To 2872
Casing: OD 5 1/4 WT. 14 1/2 Set At 2925 Tubing: OD 2" WT. 4.7 T. Perf. 2874
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.675 Estimated _____
Date of Flow Test: From 2-20-57 To 2-28-57 * Date S.I.P. Measured 2-13-56
Meter Run Size 4.026 Orifice Size 0.750 Type Chart 8 day Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 262 psig + 12 = 274 psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) 262 psig + 12 = 274 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.40)² x spring constant 5 = 274 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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.40)² x sp. const. 5 = 274 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 274 psia (h)
P_t = (h) + (f) = 274 psia (i)
Wellhead casing shut-in pressure (Dwt) 875 psig + 12 = 887 psia (j)
Wellhead tubing shut-in pressure (Dwt) 845 psig + 12 = 857 psia (k)
P_c = (j) or (k) whichever well flowed through = 887 psia (l)
Flowing Temp. (Meter Run) 45 °F + 460 = 505 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 444 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{285}{(\text{Integrated})} \times \left(\frac{\sqrt{(c)} = 16.55}{\sqrt{(d)} = 16.55} = 1.00 \right) = 285 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{285}{\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{589,633}{711,693} \right]^n} \frac{0.8522}{1} = 243 \text{ MCF/day}$$

SUMMARY

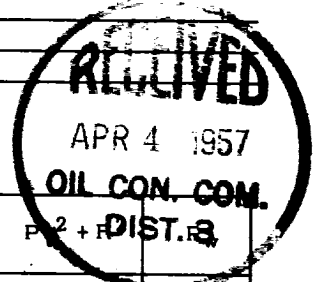
P_c = 887 psia
Q = 285 Mcf/day
P_w = 274 psia
P_d = 444 psia
D = 243 Mcf/day

Company The Superior Oil Company
By [Signature]
Title Gas Engineer
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})	P _t ²	P _t ² + R ²	P _d
		<u>.285 MCF</u>	R ²	(Column i)		
1933	0.131	0.20693	0.027108	75.076	75.103	274



[Signature]

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