

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 **Canyon Largo Unit** Formation **Pictured Cliffs** County **Rio Arriba**
Purchasing Pipeline **El Paso Natural Gas Company** Date Test Filed **10-15-56**
Operator **The Superior Oil Co.** Lease **Sadler Gov't.** Well No. **#1-28**
Unit **D** Sec. **28** Twp. **25N** Rge. **7W** Pay Zone: From **2178'** To **2256'**
Casing: OD **5 1/2** WT. **14#** Set At **2378'** Tubing: OD **2** WT. **4.70** T. Perf. **2244'**
Produced Through: Casing **X** Tubing _____ Gas Gravity: Measured **0.705** Estimated _____
Date of Flow Test: From **9-23-56** To **10-1-56** * Date S.I.P. Measured **5-16-56**
Meter Run Size **4.026** Orifice Size **1.000** Type Chart **SR-10 8 Day** Type Taps **Elange**

OBSERVED DATA

Flowing casing pressure (Dwt) **251** psig + 12 = **263** psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) **251** psig + 12 = **263** psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (**7.25**)² x spring constant **5** = **263** 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 (**7.25**)² x sp. const. **5** = **263** psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = **263** psia (h)
P_t = (h) + (f) = **263** psia (i)
Wellhead casing shut-in pressure (Dwt) **668** psig + 12 = **680** psia (j)
Wellhead tubing shut-in pressure (Dwt) **668** psig + 12 = **680** psia (k)
P_c = (j) or (k) whichever well flowed through = **680** psia (l)
Flowing Temp. (Meter Run) **60** °F + 460 = **520** °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = **340** psia (n)

Q = **183** (integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{16.22}{\sqrt{(d)} = \frac{16.22}}{1.00}} \right)^* = \underline{\underline{183}}$ MCF/da

DELIVERABILITY CALCULATION

D = Q **183** $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{346800}{393231}^{0.899} = \underline{\underline{165}}$ MCF/da.

SUMMARY

P_c = **680** psia
Q = **183** Mcf/day
P_w = **263** psia
P_d = **340** psia
D = **165** Mcf/day

Company **The Superior Oil Company**
By **J. M. S. S. S.**
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 (1-e ^{-s}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
1535	0.106	.0856	69.169	69.178	263