

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 Formation Pictured Cliffs County SJ
Purchasing Pipeline El Paso Natural Gas Date Test Filed October 2, 1956

Operator Kelly Oil Co Lease Marshall #4 Well No. 1
Unit 2 Sec. 14 Twp. 27N Rge. 9W Pay Zone: From _____ To _____
Casing: OD _____ WT. _____ Set At _____ Tubing: OD _____ WT. _____ T. Perf. _____
Produced Through: Casing 1 Tubing _____ Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 9/1/56 To 9/8/56 * Date S.I.P. Measured _____
Meter Run Size 4" Orifice Size _____ Type Char. IR Type Taps Flange

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 (7.50) ² x sp. const. 5.00 _____ = 281 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 281 psia (i)
Wellhead casing shut-in pressure (Dwt) 500 _____ psig + 12 = 512 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 512 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 256 psia (r)

FLOW RATE CALCULATION

Q = 2151 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____} = \text{_____} \text{ MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 2151 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{196,608}{183,183}^n \frac{1.0591}{1.0591} = \frac{2278}{2278} \text{ MCF/day}$

SUMMARY

P_c = 512 psia
Q = 2151 Mcf/day
P_w = 281 psia
P_d = 256 psia
D = 2278 Mcf/day

Company Geological, Inc
By J. J. McConathy J. J. McConathy
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	t ² (Column 3)	P _t ² + R ²	P _w