

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 Falcher Kuts Formation PC County SI
Purchasing Pipeline Southern Union Gas Date Test Filed February 19, 1958
Operator Producing Royalties Lease Carroll-Cornell Well No. 2
Unit D Sec. 12 Twp. 29N Rge. 12W Pay Zone: From _____ To _____
Casing: OD 5 1/2 WT. _____ Set At 1899 Tubing: OD 1 WT. _____ T. Perf. 1929
Produced Through: Casing X Tubing _____ Gas Gravity: Measured _____ Estimated _____
Date of Flow Test: From 1/24/58 To 1/31/58 * Date S.I.P. Measured 2/7/58
Meter Run Size 4" Orifice Size .750 Type Chart Normal Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 155 psig + 12 = 167 psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) 155 psig + 12 = 167 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading 150 psig + 12 = 162 psia (d)
Square root chart reading (_____) ² x spring constant 150 = 162 psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = 5 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 163 psig + 12 = 175 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 180 psia (h)
P_t = (h) + (f) _____ = 180 psia (i)
Wellhead casing shut-in pressure (Dwt) 270 psig + 12 = 282 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 282 psia (l)
Flowing Temp. (Meter Run) 6 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 141 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{130}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} = 167}{\sqrt{(d)} = 162} = 1.0153 \right)^* = 132 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{132}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{59,643}{47,124} \right]^n} = 1.2217 = 161 \text{ MCF/da.}$$

SUMMARY

P _c =	<u>282</u>	psia	Company	<u>Geoelectric, Inc.</u>
Q =	<u>132</u>	Mcf/day	By	<u>B. H. Rayner</u>
P _w =	<u>180</u>	psia	Title	<u>Agent</u>
P _d =	<u>141</u>	psia	Witnessed by	
D =	<u>161</u>	Mcf/day	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
			Negligible			