

Initial Deliverability
Test

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 Co Date Test Filed April 25, 1957
Operator Skelly Oil Co Lease Gentle "B" Well No. 1
Unit M Sec. 15 Twp. 27 Rge. 9 Pay Zone: From _____ To _____
Casing: OD _____ WT. _____ Set At _____ Tubing: OD _____ WT. _____ T. Perf. _____
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .655 Estimated _____
Date of Flow Test: From 3/16/57 To 3/24/57 * Date S.I.P. Measured 7-2-56
Meter Run Size 4" Orifice Size _____ Type Chart Sq Rt 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: _____ = _____ psi (f)
(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 (7.85) ² x sp. const. 5.00 = 308 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 308 psia (i)
Wellhead casing shut-in pressure (Dwt) 625 psig + 12 = 637 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 637 psia (l)
Flowing Temp. (Meter Run) 114 °F + 460 _____ = 504 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 318 psia (n)

FLOW RATE CALCULATION

Q = 145 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^*$ = _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 145 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$.830 = 143 MCF/da.

SUMMARY

P_c = 637 psia
Q = 145 Mcf/day
P_w = 308 psia
P_d = 318 psia
D = 143 Mcf/day

Company Geoelectric, Inc.
By J. McConathy M. 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})	P _t ²	P _t ² + R ²	P _w
			R ²		(Column i)		



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