

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 Blanco Formation W County _____
Purchasing Pipeline EPBG Date Test Filed _____
Operator Blackwood & Nichols Lease N E Blanco Unit Well No. 39-31
Unit B Sec. 31 Twp. 31N Rge. 7N Pay Zone: From 5254 To 5718
Casing: OD 5 1/2 WT. _____ Set At 5325 Tubing: OD 2 WT. 4.7 T. Perf. 5669
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .595 Estimated _____
Date of Flow Test: From 11-28-57 To 12-6-57 * Date S.I.P. Measured 8-21-57
Meter Run Size _____ Orifice Size 1.750 Type Chart SR Type Taps _____

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 (7.30) ² x sp. const. 10 _____ = 533 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) 1051 psig + 12 = 1063 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1063 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 525 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 532 psia (n)

Q = 1551 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) =$ _____ MCF/da
(integrated)

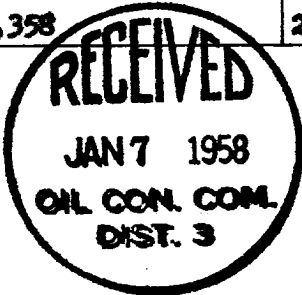
DELIVERABILITY CALCULATION
D = Q 1551 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1,0441}{1,4221} = \frac{1619}{2206}$ MCF/da.
(1.0993)

SUMMARY
P_c = 1063 psia
Q = 1551 Mcf/day
P_w = 575 psia
P_d = 532 psia
D = 2206 1619 Mcf/day
Company Geoletrie, Inc.
By D. W. Stiles
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	P _t ² (Column i)	P _t ² + R ²	P _w
3373	.218	212,649	46,358	284,089	330,447	575



OK