

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 Undesignated Formation Pictured Cliffs County RA
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed May 24, 1957

Operator Scally Oil Co Lease L L McConnell Well No. 3
Unit N Sec. 31 Twp. 25N Rge. 3W Pay Zone: From _____ To _____
Casing: OD 5 1/2 WT. _____ Set At 3556 Tubing: OD _____ WT. _____ T. Perf. _____
Produced Through: Casing X Tubing _____ Gas Gravity: Measured _____ Estimated _____
Date of Flow Test: From 4/24/57 To 4/31/57 * Date S.I.P. Measured _____
Meter Run Size 4" Orifice Size _____ Type Chart Normal 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 535 psig + 12 = 547 psia (g)
Square root chart average reading (_____)² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 547 psia (i)
Wellhead casing shut-in pressure (Dwt) 925 psig + 12 = 937 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 937 psia (l)
Flowing Temp. (Meter Run) 31 °F + 460 _____ = 491 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 469 psia (n)

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

DELIVERABILITY CALCULATION
D = Q 234 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{658,008}{578,760} = 1.1178 = 262$ MCF/da.

SUMMARY

P_c = 937 psia
Q = 234 Mcf/day
P_w = 547 psia
P_d = 469 psia
D = 262 Mcf/day

Company Geolastria, Inc
By B H Keyes B. H. Keyes
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w

UK



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