

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 Shelly Oil Co Lease L L McConnell Well No. 1
Unit N Sec. 30 Twp. 25N Rge. 3W Pay Zone: From _____ To _____
Casing: OD 5 1/2 WT. _____ Set At 8170 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 520 psig + 12 = 532 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) _____ = 532 psia (i)
Wellhead casing shut-in pressure (Dwt) 910 psig + 12 = 922 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 922 psia (l)
Flowing Temp. (Meter Run) 41 °F + 460 _____ = 501 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 461 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{Q}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/day}$$

SUMMARY

P_c = 922 psia
Q = 79 Mcf/day
P_w = 532 psia
P_d = 461 psia
D = 87 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

AK



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