

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 Mesa-Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 12/12/57
Operator The Ohio Oil Company Lease N. M. 021123 ^{341.9} Plot. 1-8 Well No. 1
Unit N Sec. 8 Twp. 31N Rge. 12W Pay Zone: From 4720 To 4965
Casing: OD 5" Liner WT. 15# Set At 4398 to 4855 Tubing: OD 2 3/8 WT. 4.7# T. Perf. 4950-4980
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 6/1/57 To 6/9/57 * Date S.I.P. Measured 11/18/56
Meter Run Size _____ Orifice Size _____ Type Chart _____ 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.45)² x sp. const. 10 _____ = 555 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 555 psia (h)
P_t = (h) + (f) _____ = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) 1066 psig + 12 = 1078 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1056 psig + 12 = 1068 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1068 psia (l)
Flowing Temp. (Meter Run) 85 °F + 460 _____ = 545 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 534 psia (n)

Q = _____ X (integrated) $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right) = \text{2,068} \text{ MCF/da}$

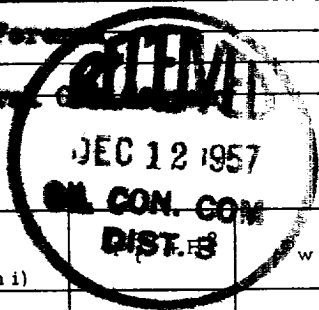
DELIVERABILITY CALCULATION
D = Q 2,068 $\left[\frac{(P_c^2 - P_d^2) = \text{855.4}}{(P_c^2 - P_w^2) = \text{749.5}} \right]^n \text{2068} \times \text{1.104} = \text{2,283} \text{ MCF/da.}$

SUMMARY
P_c = 1068 psia Company The Ohio Oil Company
Q = 2068 Mcf/day By W. G. Fae
P_w = 625.4 psia Title Production Foreman
P_d = 534 psia Witnessed by _____
D = 2,283 Mcf/day Company El Paso Natural Gas

* 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 _w
<u>3416</u>	<u>0.220</u>	<u>377.9</u>	<u>83.1</u>	<u>308</u>	<u>391.1</u> <u>625.4</u>



Oil