

Initial Deliverability
TestForm C-122-A
Revised April 20, 1955NEW 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 Basin Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____
Operator The Ohio Oil Company Lease Ohio Conv't. Sec. 23 Well No. 2-23
Unit I Sec. 23 Twp. 28N Rge. 13W Pay Zone: From 6204 To 6407
Casing: OD 5 1/4" WT. 15 1/2 & 17 1/2 Set At 6444 Tubing: OD 2-3/8 WT. 4.77 T. Perf. 6301 6302
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .675 Estimated _____
Date of Flow Test: From 5/30/61 To 6/6/61 * Date S.I.P. Measured 6/13/61
Meter Run Size 4" Orifice Size 2.250 Type Chart Sq. Rt. Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) 1610 psig + 12 = 1622 psia (a)
Flowing tubing pressure (Dwt) 1340 psig + 12 = 1352 psia (b)
Flowing meter pressure (Dwt) 507 psig + 12 = 519 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.2)² x spring constant 10 = 518 psia (d)
Meter error (c) - (d) or (d) - (c) ± = +1 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 833 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.20)² x sp. const. 10 = 518 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 519 psia (h)
P_t = (h) + (f) = 1352 psia (i)
Wellhead casing shut-in pressure (Dwt) 1950 psig + 12 = 1962 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1953 psig + 12 = 1965 psia (k)
P_c = (j) or (k) whichever well flowed through = 1965 psia (l)
Flowing Temp. (Meter Run) 69 °F + 460 = 529 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 983 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{5079}{(\text{integrated})} \times \left(\frac{\sqrt{519} - \sqrt{518}}{22.7816 - 22.7596} \right)^2 = 5084 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{5084}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75}} = 8663 \text{ MCF/day}$$

SUMMARY

P_c = 1965 psia
Q = 5084 Mcf/day
P_w = 1362 psia
P_d = 983 psia
D = 8663 Mcf/day

Company The Ohio Oil Company
By W. A. Fox
Title Production Foreman
Witnessed by _____
Company ELP 7/6/61

- * 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 1)	P _t ² + R ²	P _w
4287	0.268	2285	612		1829	2441	1362

JK

