

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 So. Blanco-Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 12/12/57

Operator The Ohio Oil Company Lease Jicarilla Apache Well No. 3
Unit D Sec. 34 Twp. 26N Rge. 5W Pay Zone: From 2923 To 2992
Casing: OD 7 WT. 20 Set At 2929 Tubing: OD 2 3/8 WT. 4.7# T. Perf. 2950-2970
Produced Through: Casing I Tubing I Gas Gravity: Measured .710 Estimated
Date of Flow Test: From 6/30/57 To 7/8/57 * Date S.I.P. Measured 11/22/55
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:
(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 (7.90) ² x sp. const. 5 = 312 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 312 psia (h)
P_t = (h) + (f) = 312 psia (i)
Wellhead casing shut-in pressure (Dwt) 881 psig + 12 = 893 psia (j)
Wellhead tubing shut-in pressure (Dwt) 881 psig + 12 = 893 psia (k)
P_c = (j) or (k) whichever well flowed through 65 °F + 460 = 525 °Abs (l)
Flowing Temp. (Meter Run) = 446.5 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = psia (n)

FLOW RATE CALCULATION

Q = X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{266}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 266 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \underline{598.087}$ ^{266 x .8756} 233 MCF/da.
699,217

SUMMARY

P_c = 893 psia
Q = 266 Mcf/day
P_w = 313 psia
P_d = 446.5 psia
D = 233 Mcf/day

Company The Ohio Oil Company
By W. A. Poe
Title Production Foreman
Witnessed by El Paso Natural Gas
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)	DIST ² + R ²	P _w
2100	0.142	6.25	.887	97.3	98.2	313

Oh