

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Basin Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-16-61

Operator Gulf Oil Corporation Lease Blackrock Federal C Well No. 1
Unit C Sec. 21 Twp. 26N Rge. 11W Pay Zone: From 6040 To 6080
Casing: OD 5½ WT. 14.00 Set At 6100 Tubing: OD 2 3/8" WT. 4.7 T. Perf. 6044
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .698 Estimated _____
Date of Flow Test: From 11-21-60 To 11-28-60 Date S.I.P. Measured _____
Meter Run Size 4" Orifice Size 2.250 Type Chart Sq. Rt. 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 (6.95) ² x sp. const. 1000 _____ = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) (B.H.)2436 psig + 12 = 2448 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2448 psia (l)
Flowing Temp. (Meter Run) 85 °F + 460 _____ = 545 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 1224 psia (n)

FLOW RATE CALCULATION

Q = 3236 X $\left(\frac{\sqrt{c}}{\sqrt{d}} \right)^* = \underline{\underline{3236}}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 3236 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{\underline{2775}}$ MCF/da.
4494528 .75 .8576
.8105 .8542
5515583 (.8109) .75
5515035

SUMMARY

P_c = 2448 psia
Q = 3236 Mcf/day
P_w = 691 669 psia
P_d = 1224 psia
D = 2775 2764 Mcf/day

Company Well Production Co.
By N.A. Neely
Title Tester
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 (1-e ^{-s}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3614</u>	<u>.234</u>	<u>925.601</u>	<u>244 380</u> <u>213.832</u>	<u>233.289</u>	<u>477 669</u> <u>447.121</u>	<u>691</u> <u>669</u>

4218 .264

O/C