

Initial Deliverability
TestForm C-125-A
Revised April 26, 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 Formation DAKOTA County RIO ARriba
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed SEPTEMBER 23, 1965
Operator NORTHWEST PRODUCTION CORPORATION Lease JICARILLA 152 W Well No. 3
Unit D Sec. 7 Twp. 26N Rge. 5W Pay Zone: From 7390 To 7642
Casing: OD 5-1/2 WT 15.5 & 17 Set At 7677 Tubing: OD 2-3/8 WT 4.6 T. Perf. 7380
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .667 Estimated _____
Date of Flow Test: From June 28, 1965 To July 6, 1965 * Date S.I.P. Measured July 23, 1965
Meter Run Size 4" Orifice Size 1.50 Type Chart L-10 Type Taps F1

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) 534 psig + 12 = 546 psia (b)
Flowing meter pressure (Dwt) 509 psig + 12 = 521 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 10.00 = 518 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 _____ = 25 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.35)² x sp. const. 10.00 = 540 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 543 psia (h)
_____ = 568 psia (i)
P_t = (h) + (f) _____
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1656 psig + 12 = 1668 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1668 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 834 psia (n)

FLOW RATE CALCULATION

Q = 757 X $\left(\frac{\sqrt{(c)} = \frac{22.825}{22.760} = 1.0029}{\sqrt{(d)} = 22.760} \right) = \frac{759}{\text{MCF/day}}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 759 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{2,086,668}{2,423,848} = 0.8608^n = 0.8842^{1.75} = \frac{692}{\text{MCF/day}}$
2,359,306

SUMMARY

P_c = 1668 psia
Q = 759 Mcf/day
P_w = 500-650 psia
P_d = 834 psia
D = 670-692 Mcf/day

Company NORTHWEST PRODUCTION CORPORATION
By J. M. NEWMAN, MGR. OPER.
Title _____
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})	P _t ² (Column 4)	P _t ² + R ²	P _w
320	.022	50.922	1,120		422,918	650
4594	.284	349,204	34,888	322,624	358,376	599

F_c = 9.402 (480' of 2-3/8 tbg)
F_c = 24.620 (6888' of 1-1/4 tbg)

OK

RECEIVED
SEP 27 1965
OIL CON. COM.
DIST. 3

