

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 2-17-62

Operator Pioneer Prod Corp. Lease Maddox Well No. 2
Unit L Sec. 33 Twp. 30N Rge. 12W Pay Zone: From 6226 To 6994
Casing: OD 4 1/2" WT. 9.5 Set At 6464 Tubing: OD 1 1/4" WT. 2.4 T. Perf. 6328
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .650 Estimated _____
Date of Flow Test: From 1-22-62 To 1-30-62 * Date S.I.P. Measured 2-6-62
Meter Run Size 4" Orifice Size 1.500 Type Chart S.R. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 792 psig + 12 = 804 psia (a)
Flowing tubing pressure (Dwt) 634 psig + 12 = 646 psia (b)
Flowing meter pressure (Dwt) 494 psig + 12 = 506 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.1)² x spring constant 10 = 504 psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ = +2 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing = +140 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.1)² x sp. const. 10 = 504 psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) = 506 psia (h)
= 646 psia (i)
 $P_t = (h) + (f)$ = 1546 psia (j)
Wellhead casing shut-in pressure (Dwt) 1534 psig + 12 = 1546 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1492 psig + 12 = 1504 psia (k)
 $P_c = (j) \text{ or } (k) \text{ whichever well flowed through}$ = 1504 psia (l)
Flowing Temp. (Meter Run) 74 °F + 460 = 534 °Abs (m)
 $P_d = \frac{1}{2} P_c = \frac{1}{2} (l)$ = 752 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{852}{(\text{Integrated})} \times \left(\frac{\sqrt{(c)} = \sqrt{1.0040} = 1.0020}{\sqrt{(d)}} \right) = 854 \text{ MCF/da}$$

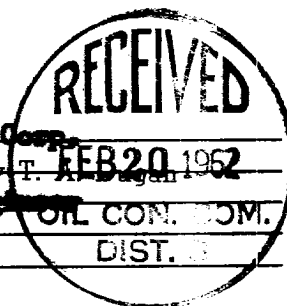
DELIVERABILITY CALCULATION

$$D = Q \frac{854}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1,696,512}{1,730,204} \right]^{.75} \frac{.9854}{(.9805)^{.75}}} = 842 \text{ MCF/da.}$$

SUMMARY

$P_c =$ 1504 psia
 $Q =$ 854 Mcf/day
 $P_w =$ 729 psia
 $P_d =$ 752 psia
 $D =$ 842 Mcf/day

Company Pioneer Prod. Corp.
By Original signed by T. A. Dugan
Title Consulting Engineer
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
4113	.259	442.070	114.496	417.316	531.812	729