

Initial Deliverability
Test

Form C-128-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 Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator Pioneer Prod. Corp. Lease Nyn Well No. 1
Unit A Sec. 32 Twp. 29N Rge. 11W Pay Zone: From 6044 To 6230
Casing: OD 4 1/2" WT. 9.5 lb Set At 6300 Tubing: OD 2 3/8" WT. 4.6 T. Perf. 6210
Produced Through: Casing 11.6 Tubing I Gas Gravity: Measured .663 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured 5-21-61
Meter Run Size 4" Orifice Size 2.000 Type Chart 32 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 1050 psig + 12 = 1062 psia (a)
Flowing tubing pressure (Dwt) 948 psig + 12 = 954 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 = 455 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.8)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) = 954 psia (i)
Wellhead casing shut-in pressure (Dwt) 1788 psig + 12 = 1800 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1789 psig + 12 = 1801 psia (k)
P_c = (j) or (k) whichever well flowed through = 1801 psia (l)
Flowing Temp. (Meter Run) 75 °F + 460 = 535 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 900 psia (n)

FLOW RATE CALCULATION

Q = 2375 X $\left(\frac{\sqrt{(c)} = \sqrt{1.0019} = 1.0009}{\sqrt{(d)}} \right) = \underline{2377} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 2377 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.75} = \underline{2561} \text{ MCF/da.}$
 $\frac{2,433,601}{2,803,625} (1.1044) .75$

SUMMARY

P_c = 1801 psia
Q = 2377 Mcf/day
P_w = 1000 psia
P_d = 900 psia
D = 2561 Mcf/day

Company Pioneer Prod. Corp.
By Original signed by T. J. [Signature]
Title Consulting Engineer
Witnessed by _____
Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column 1)	P _t ² + R ²	P _w
<u>4148</u>	<u>.260</u>	<u>499,460</u>	<u>129,890</u>	<u>910,136</u>	<u>1039,876</u>	<u>1000</u>



