

Initial Deliverability
Test

3 JUNE
1 Pioneer
1 Redfern & Hard
1 El Paso
1 2112

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 Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 12-11-61
Operator Pioneer Production Corp. Lease Standard Well No. 1
Unit J Sec. 4 Twp. 29N Rge. 12W Pay Zone: From 6356 To 6520
Casing: OD 4 1/2" WT. 9.5 Set At 6600 Tubing: OD 1 1/2" WT. 2.46 T. Perf. 6476
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .709 Estimated _____
Date of Flow Test: From 10-30-61 To 11-6-61 * Date S.I.P. Measured 1-3-61
Meter Run Size 4" Orifice Size 1.500 Type Chart S.R. Type Taps Flange

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 (7.1) ² x sp. const. 10 _____ = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 504 psia (h)
P_f = (h) + (f) _____ = 504 psia (i)
Wellhead casing shut-in pressure (Dwt) 2041 psig + 12 = 2053 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1672 psig + 12 = 1684 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1684 psia (l)
Flowing Temp. (Meter Run) 74 °F + 460 _____ = 534 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 842 psia (n)

FLOW RATE CALCULATION

Q = 583 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{583}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 583 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{513}$ MCF/da.
 $\frac{2,126,892}{2,523,330} \cdot \frac{.8792}{(.8429)^{.75}}$

SUMMARY

P_c = 1684 psia
Q = 583 Mcf/day
P_w = 559 psia
P_d = 842 psia
D = 513 Mcf/day

Company Pioneer Production Corp.
By Original signed by [Signature]
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
4591	.284	206.215	58.510	254.016	312.526	559

