

Initial Deliverability
Test

Form C-111-4
Revised April 30, 1960

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 July 6, 1961
Operator Pioneer Production Corp. Lease Walker Well No. 1
Unit 2 Sec. 1 Twp. 29N Rge. 12W Pay Zone: From 6304 To 6336
Casing: OD 4 1/2" WT. 9.5 Set At 6620 Tubing: OD 1 1/2" WT. 2.4 T. Perf. 6524
Produced Through: Casing _____ Tubing x Gas Gravity: Measured .722 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured _____
Meter Run Size 4" Orifice Size 1.000" Type Chart RR 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
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. 10 = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 483 psia (i)
Wellhead casing shut-in pressure (Dwt) 1985 psig + 12 = 1997 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1970 psig + 12 = 1982 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1982 psia (l)
Flowing Temp. (Meter Run) 86 °F + 460 _____ = 546 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 991 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) =$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 460 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.75} = \frac{2,946,243}{(.8054)^{.75}} = 191$

SUMMARY

P_c = 1982 psia
Q = 460 Mcf/day
P_w = 520 psia
P_d = 991 psia
D = 191 Mcf/day

Company Pioneer Production Corp.
By Original signed by F. J. Rogers
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
4710	.290	128,360	37.195	233,289	270,484	520

