

Initial Deliverability
Test

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 Dakota Formation Dakota County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 8-23-61
Operator Kay Kimbell Oil Operator Lease Jicarilla Well No. 1-20
Unit M Sec. 20 Twp. 25N Rge. 5W Pay Zone: From 6954 To 7054
Casing: OD 5½ WT. 17 Set At 7064 Tubing: OD 2" WT. 4.70 T. Perf. 7004
Produced Through: Casing _____ Tubing x Gas Gravity: Measured .687 Estimated _____
Date of Flow Test: From 7-14-61 To 7-21-61 * Date S.I.P. Measured 8-19-61
Meter Run Size 4.026 Orifice Size 1.500 Type Chart S.R. Type Taps Flg.

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 (7.10) ² x sp. const. 1 _____ = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 504 psia (h)
P_t = (h) + (f) _____ = 504 psia (i)
Wellhead casing shut-in pressure (Dwt) 1708 psig + 12 = 1720 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1708 psig + 12 = 1720 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1720 psia (l)
Flowing Temp. (Meter Run) 104 °F + 460 _____ = 564 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 860 psia (n)

Q = 768 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) = \underline{768} MCF/day
(integrated)$

DELIVERABILITY CALCULATION

D = Q 768 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{2.218.800}{2.689.039} \cdot .8251 \cdot .75 \cdot .8656 = \underline{665} MCF/day.$

SUMMARY

P_c = 1720 psia
Q = 768 Mcf/day
P_w = 519 psia
P_d = 860 psia
D = 665 Mcf/day

Company Kay Kimbell Oil Operator
By Original Signed By John Catothers
Title Production Superintendent
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)	DIST. 3 P _t ² + R ²	P _w
4812	0.295	52.139	15.381	254.016	269.397	519

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