

Initial Deliverability
 Test

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 April 19, 1961

Operator Kay Kimbell Oil Operator Lease Coral Unit Well No. 2-27
 Unit M Sec. 27 Twp. 25N Rge. 6W Pay Zone: From 6447 To 6671
 Casing: OD 5 1/2 WT. 15.5 Set At 6691 Tubing: OD 2" WT. 4.7 T. Perf. 6431
 Produced Through: Casing _____ Tubing x Gas Gravity: Measured .663 Estimated _____
 Date of Flow Test: From 3-22-61 To 3-29-61 * Date S.I.P. Measured 1-30-61
 Meter Run Size 4.026 Orifice Size 1.250 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 (7.10)² x sp. const. 1000 = 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) 2050 psig + 12 = 2062 psia (j)
 Wellhead tubing shut-in pressure (Dwt) 2050 psig + 12 = 2062 psia (k)
 P_c = (j) or (k) whichever well flowed through = 2062 psia (l)
 Flowing Temp. (Meter Run) 71 °F + 460 = 531 °Abs (m)
 P_d = 1/2 P_c = 1/2 (l) = 1031 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/day
 (integrated)

DELIVERABILITY CALCULATION

D = Q 445 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{7987.75}{.8453} =$ 376 MCF/day

SUMMARY

P_c = 2062 psia
 Q = 445 Mcf/day
 P_w = 509 psia
 P_d = 1031 psia
 D = 376 Mcf/day
 Company Kay Kimbell Oil Operator
 By Original Signed By John Carothers
 Title Production Supt.
 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>4264</u>	<u>0.267</u>	<u>17.50</u>	<u>4.67</u>		<u>254.016</u>	<u>258.7</u>	<u>509</u>

M

