

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 SOVER BLANCO P.C. Formation PICTURED CLIFFS County RIO ARriba
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 4-7-58
Operator KIM-100 PETROLEUM CO. Well No. 3-10
Unit D Sec. 7 Twp. 26N Rge. 7E Pay Zone: From 2182 To 2242
Casing: OD 5-1/2" WT. Set At 2168 Tubing: OD 2" WT. T. Perf. 2230
Produced Through: Casing X Tubing Gas Gravity: Measured 0.675 Estimated Estimated
Date of Flow Test: From 1-21-58 To 1-31-58 Date S.I.P. Measured 5-15-56
Meter Run Size 4" Orifice Size 0.750 Type Chart Eq. Rt. 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) ± = psig (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = psig (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = psia (g)
Square root chart average reading (7.00)² x sp. const. 5 = 245 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 245 psia (h)
P_t = (h) + (f) = 245 psia (i)
Wellhead casing shut-in pressure (Dwt) 544 psig + 12 = 556 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = psia (k)
P_c = (j) or (k) whichever well flowed through = 556 psia (l)
Flowing Temp. (Meter Run) 44 °F + 460 = 504 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 278 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 166 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ 0.941 = 156 MCF/da.

SUMMARY

P_c = 556 psia
Q = 166 Mcf/day
P_w = 245 psia
P_d = 278 psia
D = 156 Mcf/day

Company KIM-100 PETROLEUM CO.
By [Signature]
Title 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
			Friction negligible			



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OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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