

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 BLANCO MESA VERDE Formation MESA VERDE County SJ
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filled APRIL 9, 1958
Operator BLACKWOOD-NICHOLS Lease N E BLANCO UNIT Well No. 41-25
Unit D Sec. 25 Twp. 31N Rge. 8W Pay Zone: From 5270 To 5754
Casing: OD 5 1/2 WT. 15.5 Set At 5802 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5649
Produced Through: Casing Tubing X Gas Gravity: Measured .584 Estimated
Date of Flow Test: From To * Date S.I.P. Measured 9-23-57
Meter Run Size 4" Orifice Size 1.500 Type Chart 3R 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) = psia (h)
P_t = (h) + (f) = 504 psia (i)
Wellhead casing shut-in pressure (Dwt) 1087 psig + 12 = 1099 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = 1099 psia (k)
P_c = (j) or (k) whichever well flowed through = 1099 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 549 psia (n)

Q = X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{ } = \text{ }} \right)^* = \text{ }$ MCF/da
(Integrated) $\sqrt{(d)} = \text{ }$

DELIVERABILITY CALCULATION

D = Q 1106 $\left[\frac{(P_c^2 - P_d^2) = \text{906,400}}{(P_c^2 - P_w^2) = \text{931,125}} \right]^n \cdot \text{.9800} = \text{1084}$ MCF/da.

SUMMARY

P_c = 1099 psia Company Geological, Inc
Q = 1106 Mcf/day By B. H. King
P_w = 526 psia Title AGENT
P_d = 549 psia Witnessed by
D = 1084 Mcf/day 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
3299	.213	108 131	23 032	254 016	277 048	526



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