

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 San Juan
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed 11-15-1965
Operator Tenneco Oil Co. Lease Newberry Well No. 1
Unit A Sec. 17 Twp. 31N Rge. 12W Pay Zone: From 7008 To 7204
Casing: OD 4.5 WT. Set At 7205 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 6995
Produced Through: Casing Tubing X Gas Gravity: Measured .691 Estimated
Date of Flow Test: From 9-6 To 9-14 * Date S.I.P. Measured 9-21-65
Meter Run Size Orifice Size Type Chart Type Taps

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 ()² x sp. const. = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) 1719 psig + 12 = 1731 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1660 psig + 12 = 1672 psia (k)
P_c = (j) or (k) whichever well flowed through = 1731 psia (l)
Flowing Temp. (Meter Run) °F + 460 = ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 866 psia (n)

FLOW RATE CALCULATION

Q = 2548 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \text{ } \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 2548 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{ } \text{ MCF/day}$
2246405 .8997 = 2292
2586390 .8685

SUMMARY

P_c = 1731 psia
Q = 2548 Mcf/day
P_w = 640 psia
P_d = 866 psia
D = 2292 Mcf/day

Company Tethteller, Inc.
By Neil Tethteller
Title agent
Witnessed by
Company



- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(FcQ) ²	(FcQ) ² (1-e ^{-S})	P _t ²	P _t ² + R ²	P _w
		23.956	R ²	(Column i)		
4834	0.296	573.890	169.871	240.100	409.971	640

OK BLUE TEST

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