

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 Formation Mesaverde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____

Operator Consolidated Oil & Gas Lease Apache Well No. 2-16
Unit C Sec. 16 Twp. 26N Rge. 3W Pay Zone: From 5856 To 5958
Casing: OD 4 1/2" WT. 10.50# Set At 6005 Tubing: OD 1 1/2" WT. 2.75 T. Perf. 5856
Produced Through: Casing _____ Tubing XX Gas Gravity: Measured .662 Estimated _____
Date of Flow Test: From 11-19-63 To 11-27-63 * Date S.I.P. Measured 7-15-63
Meter Run Size 4.026 Orifice Size .5000 Type Chart L-10 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 (7.15) ² x sp. const. 10 _____ = 511 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 511 psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 1183 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 1183 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1183 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 946 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^2 =$ _____ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 25 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n =$ 14 MCF/day
504.573 .9432
1.138.368 (.4432)

SUMMARY

P_c = 1183 psia
Q = 25 Mcf/day
P_w = 511 psia
P_d = 946 psia
D = 14 Mcf/day

Company Consolidated Oil & Gas Inc.
By Ralph Abbott
Title _____
Witnessed by Ralph Abbott
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
			<u>F.L.N.</u>			

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