

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 Formation Dakota County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed Feb. 18, 1964
Operator Consolidated Oil & Gas Lease Champion # Well No. 6-25
Unit F Sec. 25 Twp. 27N Rge. 4W Pay Zone: From 8260 To 8320
Casing: OD 4 1/2" WT. 1160 Set At 8270 Tubing: OD 1 1/2" WT. 2.75 T. Perf. 8303
Produced Through: Casing _____ Tubing XX Gas Gravity: Measured .687 Estimated _____
Date of Flow Test: From 1-14-64 To 1-22-64 * Date S.I.P. Measured 9-23-63
Meter Run Size 4.026 Orifice Size .635 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 (7.00) ² x sp. const. 10 _____ = 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) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 2260 psig + 12 = 2272 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2272 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 1136 psia (n)

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

DELIVERABILITY CALCULATION
D = Q 123 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{3871.489}{4.920.489} = \frac{.8354}{.7968} = \text{103} \text{ MCF/day}$

SUMMARY
P_c = 2272 psia
Q = 123 Mcf/day
P_w = 491 psia
P_d = 1136 psia
D = 103 Mcf/day
Company Consolidated Oil & Gas Inc.
By Ralph Abbott
Title _____
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
<u>3677</u>	<u>.338</u>	<u>4.101</u>	<u>1.386</u>	<u>240.100</u>	<u>241.486</u>	<u>491</u>

OK

