

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 DAKOTA Formation DAKOTA County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 2-20-61

Operator TURNER & WKEB Lease TURNER-McADAMS Well No. 2-20
Unit D Sec. 20 Twp. 27N Rge. 9W Pay Zone: From 6804 To 6904
Casing: OD 5-1/2" WT. 15.5# Set At 6963 Tubing: OD 20 WT. 4.7# T. Perf. 6830
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.693 Estimated _____
Date of Flow Test: From 1-7-61 To 1-15-61 Date S.I.P. Measured 9-4-60
Meter Run Size 4" Orifice Size 1.750 Type Chart Sq. 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) _____ ± _____ = _____ 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 (7.05) ² x sp. const. 10 _____ = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 497 psia (h)
P_t = (h) + (f) _____ = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) 2000 psig + 12 = 2012 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1992 psig + 12 = 2004 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2004 psia (l)
Flowing Temp. (Meter Run) 94 °F + 460 _____ = 554 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 1002 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right) =$
(Integrated)



DELIVERABILITY CALCULATION

D = Q 1.077 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{3,012,000}{3,739,100} \times 0.85 = 915$ MCF/da.

SUMMARY

P_c = 2004 psia
Q = 1077 Mcf/day
P_w = 526 psia
P_d = 1002 psia
D = 915 Mcf/day

Company TURNER & WKEB
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	$\frac{(F_c Q)^2 (1-e^{-S})}{R^2}$	P _t ² (Column i)	P _t ² + R ²	P _w
4733	0.291	102,600	29,856	247,009	276,865	526

OK

