

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 BALLARD Formation PICTURED CLIFFS County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 3-19-56
Operator REYNOLDS-NORTH Lease STATE Well No. 2
Unit 6 Sec. 32 Twp. 24N Rge. 8W Pay Zone: From 2123 To 2200
Casing: OD 5-1/2" WT. 14# Set At 2128 Tubing: OD 1" WT. 1.7# T. Perf. 2150-55
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.660 Estimated _____
Date of Flow Test: From 2-21-56 To 2-29-56 * Date S.I.P. Measured 12-30-55
Meter Run Size 4.026 Orifice Size 1.000 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 237 psig + 12 = 249 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = 249 psia (h)
P_t = (h) + (f) _____ = 249 psia (i)
Wellhead casing shut-in pressure (Dwt) 609 psig + 12 = 621 psia (j)
Wellhead tubing shut-in pressure (Dwt) 609 psig + 12 = 621 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 621 psia (l)
Flowing Temp. (Meter Run) 50 °F + 460 _____ = 510 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 311 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 370 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/day}$
0.909

SUMMARY

P_c = 621 psia
Q = 370 Mcf/day
P_w = 249 psia
P_d = 311 psia
D = 355 Mcf/day

Company REYNOLDS-NORTH
By August J. Grobe
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	(F _c Q) ² (1-e ^{-s})	P _t ² (Column i)	P _t ² + R ²	P _w
			<u>R²</u>			
			Friction negligible			

From EPMS Chart #74-306-Q1 Q = (3056) 24
(100)



OIL CONSERVATION COMMISSION		
ATTEC DISTRICT OFFICE		
No. Oils to be tested: <u>3</u>		
INSTRUCTIONS		
1. Test all oils.		
1. Test all oils.		✓
2. Test all oils.		
3. Test all oils.		✓
4. Test all oils.		✓
5. Test all oils.		
6. Test all oils.		
7. Test all oils.		
8. Test all oils.		
9. Test all oils.		
10. Test all oils.		

X