

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 Otero - Chacra Formation Chacra County RA
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed March 25, 1959
Operator Skelly Oil Company Lease Jicarilla "C" Well No. 19
Unit I Sec. 27 Twp. 25N Rge. 5W Pay Zone: From 3658 To 3784
Casing: OD 5 1/2" WT. 14# Set At 3849 Tubing: OD 2" WT. 4.70 T. Perf. 3628
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .653 Estimated _____
Date of Flow Test: From 2-27-59 To 3-7-59 * Date S.I.P. Measured 11-29-58
Meter Run Size 4" 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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.15) ² x sp. const. 10.00 _____ = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 875 psig + 12 = 887 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 887 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 _____ = 524 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 443 psia (n)

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

DELIVERABILITY CALCULATION

$$D = Q \text{ } \underline{279} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \text{ } \underline{590520} \text{ } \underline{524625} \text{ } \underline{1.1256 \cdot 75} \text{ } \underline{1.0927} = \underline{305} \text{ MCF/da.}$$

SUMMARY

P_c = 887 psia
Q = 279 Mcf/day
P_w = 512 psia
P_d = 443 psia
D = 305 Mcf/day

Company Skelly Oil Company
By P. E. Cosper (Signed) P. E. Cosper
Title District Superintendent
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	OIL CON. COM. DISTR. 3
2369	0.158	6.88	1.087	261.121	262.208	512

1. 1. 1. 1.

2. 2. 2. 2.

3. 3. 3. 3.

4. 4. 4. 4.

5. 5. 5. 5.

6. 6. 6. 6.

7. 7. 7. 7.

8. 8. 8. 8.

9. 9. 9. 9.

10. 10. 10. 10.

11. 11. 11. 11.

12. 12. 12. 12.

13. 13. 13. 13.

14. 14. 14. 14.
15. 15. 15. 15.
16. 16. 16. 16.