

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 Tanito (PC) Formation Pictured Cliffs County RA
Purchasing Pipeline Southern Union Gas Co. Date Test Filed 11/13/59
Operator Skelly Oil Company Lease W. F. Hurt Well No. 3
Unit 3 Sec. 14 Twp. 25N Rge. 3E Pay Zone: From 3904 To 3934
Casing: OD 5 1/2" WT. 14.4 Set At 3909 Tubing: OD 2" WT. 4.70 T. Perf. 3908
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .651 Estimated _____
Date of Flow Test: From 10/7/59 To 10/15/59 * Date S.I.P. Measured 6/25/59
Meter Run Size 4" Orifice Size 2.875 Type Chart SR 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 550 psig + 12 = 962 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 962 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 997 psig + 12 = 1009 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1009 psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 _____ = 536 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 504 psia (n)

FLOW RATE CALCULATION

$$Q = \text{_____} \times \left(\frac{\frac{V(c)}{V(d)}}{\text{_____}} \right)^{1/2} = \text{_____} \text{ MCF/da}$$

(Integrated)

DELIVERABILITY CALCULATION

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

2875 764065 578512 1.3207⁻⁸⁵ 1.2667 3642

SUMMARY

P_c = 1009 psia Company Skelly Oil Company
Q = 2875 Mcf/day By P. E. Cosper (Signed) P. E. Cosper
P_w = 443 psia Title District Superintendent
P_d = 504 psia Witnessed by _____
D = 3642 Mcf/day 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>2844</u>	<u>0.169</u>	<u>730.6</u>	<u>123.5</u>	<u>915.8</u>	<u>139.5</u>	<u>443</u>

