

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 South Blanco Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed 6/24/58
Operator SKELLY OIL COMPANY Lease C. W. Roberts Well No. 2
Unit L Sec. 18 Twp. 25N Rge. 3W Pay Zone: From 3564' To 3588'
Casing: OD 5 1/2" WT. 14 1/2 Set At 3641' Tubing: OD 2" WT. 4.70 T. Perf. 3567'
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .677 Estimated _____
Date of Flow Test: From 5/22/58 To 5/30/58 * Date S.I.P. Measured 12/30/57
Meter Run Size 4" Orifice Size 1.00 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 537 psig + 12 = 549 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) _____ = 549 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 960 psig + 12 = 972 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 972 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 _____ = 540 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 486 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 643 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/da.}$
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{708,588}{643,383}$ $n = 1.0852$

SUMMARY

P_c = 972 psia
Q = 643 Mcf/day
P_w = 549 psia
P_d = 486 psia
D = 698 Mcf/day

Company SKELLY OIL COMPANY
By Lee R. King
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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
			<u>Negligible</u>			



