

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 RA
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed March 13, 1959
Operator Skelly Oil Company Lease Anderson "B" Well No. 1
Unit M Sec. 33 Twp. 25N Rge. 3W Pay Zone: From 3396 To 3471
Casing: OD 5 1/2" WT. 14# Set At 3528 Tubing: OD 2" WT. 4.70 T. Perf. 3467
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .669 Estimated _____
Date of Flow Test: From 2-19-59 To 2-27-59 * Date S.I.P. Measured 11-11-58
Meter Run Size 4" Orifice Size .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: _____ = _____ psi (f)
(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 549 psig + 12 = 561 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 561 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1000 psig + 12 = 1012 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1012 psia (l)
Flowing Temp. (Meter Run) 48 °F + 460 _____ = 508 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 506 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$ _____ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 364 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = 1.0827^{.85} = 1.0699 =$ 389 MCF/da.

SUMMARY

P_c = 1012 psia
Q = 364 Mcf/day
P_w = 561 psia
P_d = 506 psia
D = 389 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	P _w
			Negligible			



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