

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 Formation Pictured Cliffs County San Jun
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator Skelly Oil Company Lease Farming "D" Well No. 1
Unit M Sec. 2 Twp. 27N Rge. 9W Pay Zone: From 2320 To 2360
Casing: OD 5 1/2" WT. 14# Set At 2441' Tubing: OD 1" WT. _____ T. Perf. _____
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .641 Estimated _____
Date of Flow Test: From 3/24/58 To 4/1/58 * Date S.I.P. Measured _____
Meter Run Size _____ 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:
(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 (7.05) ² x sp. const. 5.00 = 249 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 780 psig + 12 = 792 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 792 psia (l)
Flowing Temp. (Meter Run) _____ 49 °F + 460 = 509 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 396 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{P_c}}{\sqrt{P_d}} \right)^n$ = _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 153 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$.85 .8323 = .8556 = 131 MCF/da.

SUMMARY

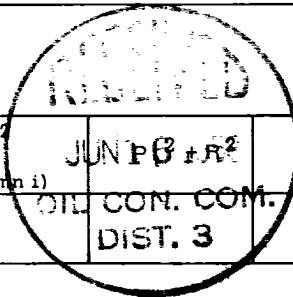
✓ P_c = 792 psia
✓ Q = 153 Mcf/day
P_w = 249 psia
P_d = 396 psia
D = 131 Mcf/day

Company Skelly Oil Company
By Lee P. 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 (Column i)	P _w



OK