

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 Undesignated Formation Dakota County S.J.
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed August 24, 1960
Operator Skelly Oil Co. Lease P. L. Davis Well No. 1
Unit A Sec. 26 Twp. 26N Rge. 11W Pay Zone: From 6130 To 6268
Casing: OD 5 1/2" WT 14 & 15 1/2 Set At 6386 Tubing: OD 2 3/8" WT. 4.7 T. Perf. 5979
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .717 Estimated _____
Date of Flow Test: From 7-22-60 To 7-30-60 * Date S.I.P. Measured 12-27-57
Meter Run Size 4" Orifice Size 1.000 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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.00)² x sp. const. 10.00 = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1260 psig + 12 = 1272 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1272 psia (l)
Flowing Temp. (Meter Run) 93 °F + 460 _____ = 553 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 636 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 195 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \cdot .8813^{.75} = .9096 = \text{_____ MCF/da.}$
1,213,488
1,376,903

SUMMARY

P_c = 1272 psia Company Skelly Oil Company
Q = 195 Mcf/day By P. E. Cosper
P_w = 491 psia Title District Superintendent
P_d = 636 psia Witnessed by _____
D = 177 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>4287</u>	<u>.268</u>	<u>3.361</u>	<u>.901</u>	<u>240.100</u>	<u>241.001</u>	<u>491</u>

