

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 Gallup County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 6-30-58
Operator Skelly Oil Company Lease Navajo "H" Well No. 1
Unit A Sec. 13 Twp. 26N Rge. 13W Pay Zone: From 4843 To 4974
Casing: OD 5 1/2 WT. 14 Set At 5173 Tubing: OD 2" WT. 4.7 T. Perf. 4843
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .710 Estimated _____
Date of Flow Test: From 5-16-58 To 5-23-58 * Date S.I.P. Measured 2-10-58
Meter Run Size 4" Orifice Size 1,500 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 (7.15) ² x sp. const. 10.00 _____ = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1150 psig + 12 = 1162 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1162 psia (l)
Flowing Temp. (Meter Run) 84 °F + 460 _____ = 544 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 581 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 1626 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1,012,683}{1,037,427}^{.9760 \times .75} = \text{_____} = \text{1597 MCF/da.}$

SUMMARY

P_c = 1162 psia
Q = 1626 Mcf/day
P_w = 559 psia
P_d = 581 psia
D = 1597 Mcf/day

Company Skelly Oil Company
By G. H. Kasper
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 R ²	(1-e ^{-s})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3439</u>	<u>.221</u>	<u>233.8</u>	<u>51.7</u>		<u>261,121</u>	<u>312,821</u>	<u>559</u>

