

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 Otero-Dakota Formation Dakota County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4/21/58
Operator SKELLY OIL COMPANY Lease Jicarilla "C" Well No. 14
Unit A Sec. 27 Twp. 25N Rge. 5W Pay Zone: From 7026 To 7054
Casing: OD 5 1/2" WT. 17# Set At 7355 Tubing: OD 2 1/2" WT. 6.5 T. Perf. 7024
Produced Through: Casing _____ Tubing x Gas Gravity: Measured .715 Estimated _____
Date of Flow Test: From 1-16-58 To 1-23-58* Date S.I.P. Measured 4-5-57
Meter Run Size 4" Orifice Size 1.250 Type Chart Sq. Ft. 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 (5.45) ² x sp. const. 10.00 _____ = 297 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 297 psia (i)
Wellhead casing shut-in pressure (Dwt) 2542 psig + 12 = 2554 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2534 psig + 12 = 2546 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2546 psia (l)
Flowing Temp. (Meter Run) 50 °F + 460 _____ = 510 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 1273 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 488 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75} = \frac{4,861,587}{6,392,907}^{.75} = .8142 = 397 \text{ MCF/da.}$

SUMMARY

P _c =	<u>2546</u>	psia	Company	<u>SKELLY OIL COMPANY</u>
Q =	<u>488</u>	Mcf/day	By	<u>Lee R. King L.R.K.</u>
P _w =	<u>297</u>	psia	Title	<u>Engineer</u>
P _d =	<u>1273</u>	psia	Witnessed by	_____
D =	<u>397</u>	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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w



