

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 Basin Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed January 16, 1961
Operator Skelly Oil Company Lease Mexico-Fed "C" Well No. 1
Unit G Sec. 15 Twp. 30N Rge. 13W Pay Zone: From 6330' To 6485'
Casing: OD 5 1/2" WT. 14# & 15 1/2# Set At 6592' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 6474
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .698 Estimated _____
Date of Flow Test: From 12-22-60 To 12-30-60 * Date S.I.P. Measured November 19, 1959
Meter Run Size 4" Orifice Size 1.500 Type Chart S.R. 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 (6.80) ² x sp. const. 10.00 = 462 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 462 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1652 psig + 12 = 1664 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1664 psia (l)
Flowing Temp. (Meter Run) 103 °F + 460 _____ = 563 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 832 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 818 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{2,076,672}{2,538,890} \right]^n \cdot .8179^{.75} = .8600 = \dots$ MCF/day.

SUMMARY

P_c = 1664 psia
Q = 818 Mcf/day
P_w = 480 psia
P_d = 832 psia
D = 703 Mcf/day

Company Skelly Oil Company
By (ORIGINAL) H. E. Aab
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
4519	0.280	59.149	16.562	213.444	230.006	480



OK