

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 Blance Formation Pictured Cliffs County RA
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed March 25, 1959
Operator Skelly Oil Co. Lease Jicarilla "C" Well No. 19
Unit I Sec. 27 Twp. 25N Rge. 5W Pay Zone: From 2799 To 2847
Casing: OD 5 1/2" WT. 14# Set At 3849 Tubing: OD 2" WT. 4.70 T. Perf. 3784
Produced Through: Casing I Tubing _____ Gas Gravity: Measured .695 Estimated _____
Date of Flow Test: From 2-27-59 To 3-7-59 * Date S.I.P. Measured 11-29-59
Meter Run Size 4" Orifice Size 1.000" 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 (7.00) ² x sp. const. 5.00 _____ = 245 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 245 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 950 psig + 12 = 962 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 962 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 _____ = 513 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 481 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 357 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \cdot \frac{.8020^{.85} - .8290}{.8290} = \text{_____ MCF/da.}$
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{694083}{865419}$

SUMMARY

P_c = 962 psia
Q = 357 Mcf/day
P_w = 245 psia
P_d = 481 psia
D = 296 Mcf/day

Company Skelly Oil Company
By P. E. Cosper (Signed) P. E. Cosper
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
			Negligible			

MAR 26 1959
OIL CON. COM.
DIST. 3

