

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 Blanco Pictured Cliffs Formation Pictured Cliffs County RA
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed January 26, 1959
Operator Skelly Oil Company Lease Paul Williams Well No. 2
Unit E Sec. 35 Twp. 26N Rge. 6W Pay Zone: From 2538 To 2592
Casing: OD 5 1/2 WT. 14 Set At 2651 Tubing: OD 2" WT. 4.70 T. Perf. 2593
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .692 Estimated _____
Date of Flow Test: From 12-30-58 To 1-7-59 * Date S.I.P. Measured 10-20-58
Meter Run Size 4" Orifice Size 1.250" 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 (7.50) ² x sp. const. 5.00 = 281 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 281 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 925 psig + 12 = 937 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 937 psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 _____ = 517 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 469 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 690 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \cdot .3289^{.35} = .8526 = \text{_____ MCF/da.}$
658,008
793,869

SUMMARY

P_c = 937 psia Company Skelly Oil Company
Q = 690 Mcf/day By P. E. Gosper
P_w = 290 psia Title District Superintendent
P_d = 469 psia Witnessed by _____
D = 588 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
1794	.122	42.12	5.14	78.96	84.10	290

JAN 28 1959
OIL CON. COM.
DIST. 3