

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 Dakota County RA
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 7-28-60
Operator Skelly Oil Company Lease Jicarilla "B" Well No. 21
Unit D Sec. 32 Twp. 25N Rge. 5W Pay Zone: From 6999' To 7072'
Casing: OD 5 1/2" WT. 15.5 & 17 1/2 Set At 7249 Tubing: OD 2" WT. 4.7 1/2 T. Perf. 7038
Produced Through: Casing Tubing X Gas Gravity: Measured 0.658 Estimated
Date of Flow Test: From 5-31-60 To 6-7-60 * Date S.I.P. Measured 3-14-60
Meter Run Size 4" Orifice Size 1.000 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 (6.95)² x sp. const. 10.00 = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 483 psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) 2155 psig + 12 = 2167 psia (k)
P_c = (j) or (k) whichever well flowed through = 2167 psia (l)
Flowing Temp. (Meter Run) 84 °F + 460 = 544 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1084 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 157 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_{v,r}^2} \right]^n$ 0.7891^{.75} = 0.8373 131 MCF/da.

SUMMARY

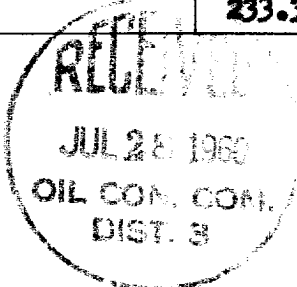
P_c = 2167 psia
Q = 157 Mcf/day
P_w = 484 psia
P_d = 1084 psia
D = 131 Mcf/day

Company Skelly Oil Company
By (Signed) P. E. Cooper
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	P _t ² (Column i)	P _t ² + R ²	P _w
4631	0.286	2.2	0.63	233.3	233.3	484	



[illegible]