

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 Formation CHACRA County RA
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed Oct. 25, 1957
Operator SKELLY OIL CO. Lease JIBARILLA "C" Well No. 12
Unit C Sec. 33 Twp. 25N Rge. 5W Pay Zone: From 3550 To 3680
Casing: OD 5 1/2 WT. Set At 3735 Tubing: OD WT. T. Perf.
Produced Through: Casing Tubing X Gas Gravity: Measured .660 Estimated
Date of Flow Test: From To * Date S.I.P. Measured 1 - 16 - 57
Meter Run Size 4" Orifice Size .750 Type Chart SA 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 (7.15) ² x sp. const. 500 = 256 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 256 psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) 825 psig + 12 = 837 psia (k)
P_c = (j) or (k) whichever well flowed through = 837 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 = 521 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 418 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{V(c)}{V(d)} \times \left(\frac{V(c)}{V(d)} \right)^{.8680} = \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.8680} = 136 \text{ MCF/da.}$$

SUMMARY

P_c = 837 psia Company GELECTRIC, Inc
Q = 157 Mcf/day By B H KEYS
P_w = 256 psia Title AGENT
P_d = 418 psia Witnessed by
D = 136 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



OK