

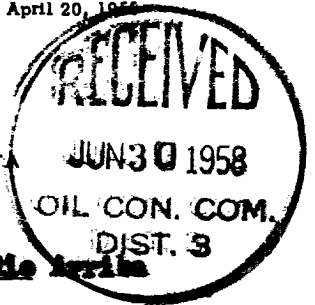
3-3400C
1-W.C. Hummick
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Form C-122-A
Revised April 20, 1955

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 _____ Formation Pic Cliffs County El Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed June 26, 1958

Operator U.S. Smelting Refining & Mining Lease Jicarilla Well No. 1-33
Unit N Sec. 33 Twp. 24N Rge. 4W Pay Zone: From 2728 To 2740
Casing: OD 7" WT. 20# Set At 2845 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 2738
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .698 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured 7-13-56
Meter Run Size 4" Orifice Size .750 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 (6.30) ² x sp. const. 5 _____ = 198 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 198 psia (h)
P_t = (h) + (f) _____ = 198 psia (i)
Wellhead casing shut-in pressure (Dwt) 646 psig + 12 = 658 psia (j)
Wellhead tubing shut-in pressure (Dwt) 646 psig + 12 = 658 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 658 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 _____ = 528 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 329 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85} = \text{_____ MCF/da.}$$

SUMMARY

P_c = 658 psia
Q = 101 Mcf/day
P_w = 198 psia
P_d = 329 psia
D = 86 Mcf/day

Company U.S. Smelting Refining & Mining Co.
By Original signed by T A Dugan
Title Consulting Engineer
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