

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Blanco Formation Mesaverde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator Union Texas Petroleum Lease Johnston-Federal Well No. 9
Unit F Sec. 35 Twp. 31N Rge. 9W Pay Zone: From 4450 To 5153
Casing: OD 4 1/2 WT. 9.5 Set At 5242 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 4665
Produced Through: Casing _____ Tubing x Gas Gravity: Measured .678 Estimated _____
Date of Flow Test: From 12-19-63 To 12-27-63 Date S.I.P. Measured 11-25-63
Meter Run Size 4 Orifice Size 1.50 Type Chart SR Type Taps F

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 (7.45) ² x sp. const. 10 _____ = 555 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 555 psia (h)
P_t = (h) + (f) _____ = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) 770 psig + 12 = 732 psia (j)
Wellhead tubing shut-in pressure (Dwt) 750 psig + 12 = 762 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 782 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 80% ac _____ = 626 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 853 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{.8112}{(.7365) .75} = \text{_____ MCF/da.}$
219648
290314

SUMMARY

P_c = 732 psia
Q = 853 Mcf/day
P_w = 567 psia
P_d = 626 psia
D = 692 Mcf/day

Company Union Texas Petroleum Corp.
By Frank O. Hallman
Title Switcher
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
<u>3163</u>	<u>.205</u>	<u>64.320</u>	<u>13.185</u>	<u>308.025</u>	<u>321210</u>	<u>567</u>

