

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 Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipe Line Corp. Date Test Filed 5-17-57
Operator Magnolia Petroleum Co. Lease Jicarilla "H" Well No. 1 UT PC
Unit H Sec. 11 Twp. 26N Rge. 3W Pay Zone: From 3585' To 3676'
Casing: OD 7-5/8" WT. 24# Set At 3987' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3577'
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated 0.67
Date of Flow Test: From 4-17-57 To 4-25-57 * Date S.I.P. Measured 9-2-56
Meter Run Size 2.068" Orifice Size 1.250" Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) 522 psig + 12 = 534 psia (b)
Flowing meter pressure (Dwt) 518 psig + 12 = 530 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.28)² x spring constant 10 = 530 psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ = 0 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = 4 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.3)² x sp. const. 10 = 533 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 533 psia (h)
P_t = (h) + (f) _____ = 537 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1031 psig + 12 = 1043 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1043 psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 _____ = 517 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 521.5 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{1.431}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} \ 530}{\sqrt{(d)} \ 530} = \frac{1.000}{1} \right) = 1.431 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1.431}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85} \frac{1.0415}{1.490}} = 1.490 \text{ MCF/da.}$$

SUMMARY

P_c = 1,043 psia
Q = 1.431 Mcf/day
P_w = 556.7 psia
P_d = 521.5 psia
D = 1.490 Mcf/day

Company Magnolia Petroleum Co.
By Walter H. Rust
Title Gas 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})	P _t ² (Column i)	P _t ² + R ²	P _w
2397	0.160	134.54	21.53	288.37	309.9	556.7



