

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 Tapacito Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Co. Date Test Filed -

Operator Magnolia Petroleum Company Lease Jicarilla "B" Well No. 6 PC-UT
Unit A Sec. 17 Twp. 26N Rge. 3W Pay Zone: From 3773' To 3809'
Casing: OD 7 5/8" WT. 24# Set At 4020' Tubing: OD 2 3/8" WT. 4.7# T. Perf. 3766'
Produced Through: Casing - Tubing x Gas Gravity: Measured 0.659 Estimated -
Date of Flow Test: From 10-7-58 To 10-15-58 * Date S.I.P. Measured 12-15-57
Meter Run Size 4.026" Orifice Size 1.000" Type Chart Sqr. Rt. 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 (6.7) ² x sp. const. 10 _____ = 449 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 449 psia (h)
P_t = (h) + (f) _____ = 449 psia (i)
Wellhead casing shut-in pressure (Dwt) 941 _____ psig + 12 = 953 psia (j)
Wellhead tubing shut-in pressure (Dwt) 941 _____ psig + 12 = 953 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 953 psia (l)
Flowing Temp. (Meter Run) 59 °F + 460 _____ = 519 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 476 psia (n)

Q = 665 (integrated) x $\left(\frac{\sqrt{(c)} \frac{1}{1} = \frac{1}{1} = \frac{1}{1}}{\sqrt{(d)} \frac{1}{1} = \frac{1}{1} = \frac{1}{1}} \right) = \underline{665}$

DELIVERABILITY CALCULATION
D = Q 665 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85} = \frac{681,633}{700,209}^{0.85} = 0.973 = 0.9770 = \underline{650}$

SUMMARY
P_c = 953 psia
Q = 665 Mcf/day
P_w = 456 psia
P_d = 476 psia
D = 650 Mcf/day

Company MAGNOLIA PETROLEUM COMPANY
By William A. Zarga
Title Jr. 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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
2482	0.165	39.1	6.45	201.6	208.0	456

OK