

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 Date Test Filed 2-19-59
Operator Magnolia Petroleum Co. Lease Jicarilla "G" Well No. 6 UT-PC
Unit M Sec. 36 Twp. 27N Rge. 3W Pay Zone: From 3712' To 3791'
Casing: OD 7-5/8" WT. 25.4# Set At 3996' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3782'
Produced Through: Casing - Tubing X Gas Gravity: Measured 0.670 Estimated -
Date of Flow Test: From 12-30-58 To 1-7-59 * Date S.I.P. Measured 9-1-58
Meter Run Size 4.026" Orifice Size 1.250 Type Chart 6-10-8 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 (-)² x sp. const. 10 = 549 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 549 psia (h)
P_t = (h) + (f) = 549 psia (i)
Wellhead casing shut-in pressure (Dwt) 957 psig + 12 = 969 psia (j)
Wellhead tubing shut-in pressure (Dwt) 910 psig + 12 = 922 psia (k)
P_c = (j) or (k) whichever well flowed through = 922 psia (l)
Flowing Temp. (Meter Run) 75 °F + 460 = 535 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 461 psia (n)

FLOW RATE CALCULATION

Q = 888 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1.000}{1.000} \right)^* = \underline{888}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 888 $\left[\frac{(P_c^2 - P_d^2) = 637,563}{(P_c^2 - P_w^2) = 536,903} \right]^{0.85} \frac{1.1568}{1.1568} = \underline{1027}$ MCF/da.

SUMMARY

P_c = 922 psia
Q = 888 Mcf/day
P_w = 560 psia
P_d = 461 psia
D = 1027 Mcf/day

Company Magnolia Petroleum Company
By C. V. Mosley
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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
2534	0.169	69.706	11.780	301.401	313.181	560

OK

