

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 BALLARD Formation PICTURED CLIFFS County SAN JUAN
 Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 3-26-57
 Operator BENSON-MONTIN-GREER DRILLING CORP. Lease HOSPER-RIDDLE Well No. 7
 Unit P Sec. 13 Twp. 25N Rge. 6W Pay Zone: From 2235 To 2357
 Casing: OD 5-1/2" WT. 14# Set At 2357 Tubing: OD 1" WT. 1.7# T. Perf. 2275
 Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.660 Estimated _____
 Date of Flow Test: From 2-20-57 To 2-28-57 * Date S.I.P. Measured 10-29-56
 Meter Run Size 4" Orifice Size 2" Type Chart Sq. 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 (8.05)² x sp. const. 5 = 324 psia (g)
 Corrected seven day avge. meter press. (p_f) (g) + (e) = 324 psia (h)
 P_t = (h) + (f) = 324 psia (i)
 Wellhead casing shut-in pressure (Dwt) 661 psig + 12 = 673 psia (j)
 Wellhead tubing shut-in pressure (Dwt) 663 psig + 12 = 675 psia (k)
 P_c = (j) or (k) whichever well flowed through = 673 psia (l)
 Flowing Temp. (Meter Run) 59 °F + 460 = 519 °Abs (m)
 P_d = 1/2 P_c = 1/2 (l) = 337 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right)^*$ _____ MCF/da
 (integrated)

DELIVERABILITY CALCULATION

D = Q 1.707 $\left[\frac{(P_c^2 - P_d^2) = 339,300}{(P_c^2 - P_w^2) = 347,800} \right]^n$ 0.9793 = 1,672 MCF/da.

SUMMARY

P_c = 673 psia
 Q = 1,707 Mcf/day
 P_w = 324 psia
 P_d = 337 psia
 D = 1,672 Mcf/day

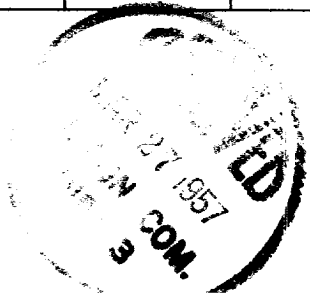
Company BENSON-MONTIN-GREER DRILLING CORP.
 By [Signature]
 Title Engineer
 Witnessed by _____
 Company _____

* 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
1502	0.103	1454	150	104,976	105,126	324

OK



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