

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 Lease FOSTER-RIDDLE Well No. 6
Unit A Sec. 13 Twp. 25N Rge. 8W Pay Zone: From 2244 To 2330
Casing: OD 5-1/2" WT. 14# Set At 2250 Tubing: OD 1" WT. 1.7# T. Perf. 2310
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.655 Estimated _____
Date of Flow Test: From 2-20-57 To 2-28-57* Date S.I.P. Measured 10-18-56
Meter Run Size 4" Orifice Size 1" 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 (7.60)² x sp. const. 5 _____ = 289 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 289 psia (h)
P_t = (h) + (f) _____ = 289 psia (i)
Wellhead casing shut-in pressure (Dwt) 640 _____ psig + 12 = 652 psia (j)
Wellhead tubing shut-in pressure (Dwt) 640 _____ psig + 12 = 652 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 652 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 _____ = 513 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 326 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 370 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{318,800}{341,600} \cdot 0.943 = 349$ MCF/da.

SUMMARY

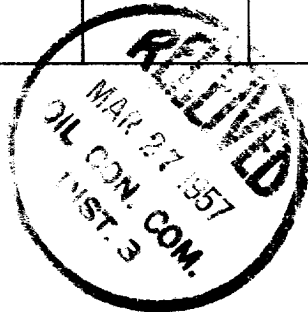
P_c = 652 psia
Q = 370 Mcf/day
P_w = 289 psia
P_d = 326 psia
D = 349 Mcf/day

Company BENSON-MONTIN-GREER DRILLING CORP.
By W. J. L. L. L.
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
			Friction negligible				



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