

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 S. ~~BLANCO PC EXP.~~ Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 3-31-59
Operator BENSON-MONTIN-GREEK DRILLING CORP. Lease HILL Well No. 6
Unit B C Sec. 23 Twp. 25N Rge. 3W Pay Zone: From 3666 To 3757
Casing: OD 5-1/2" WT. 15.5# Set At 3757 Tubing: OD 1-1/4" WT. 2.4# T. Perf. 3696
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.643 Estimated _____
Date of Flow Test: From 2-15-59 To 2-23-59 * Date S.I.P. Measured 12-18-58
Meter Run Size 4" Orifice Size 1.750 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: _____ = _____ psi (f)
(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 (10) ² x sp. const. 5 _____ = 500 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 500 psia (h)
_____ = 500 psia (i)
P_t = (h) + (f) _____ = 1053 psia (j)
Wellhead casing shut-in pressure (Dwt) 1041 psig + 12 = 1053 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1041 psig + 12 = 1053 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1053 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 527 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \text{ } 3782 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \text{ } 0.974 = 3684 \text{ MCF/da.}$$

SUMMARY

P_c = 1053 psia
Q = 3782 Mcf/day
P_w = 502 psia
P_d = 527 psia
D = 3684 Mcf/day

Company BENSON-MONTIN-GREEK 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
2357	0.158	10,772	1702	250,000	251,700	502



