

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 Blanco Formation MV County BJ
Purchasing Pipeline El Paso Natural Gas Date Test Filed January 30, 1958
Operator Blackwood Nichols Lease NE Blanco Unit Well No. 49-30
Unit II Sec. 30 Twp. 31N Rge. 7W Pay Zone: From 5229 To 5788
Casing: OD 5 1/2 WT. Set At 5817 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5639
Produced Through: Casing Tubing I Gas Gravity: Measured .590 Estimated
Date of Flow Test: From 1/1/58 To 1/8/58 * Date S.I.P. Measured 11/21/57
Meter Run Size 4" Orifice Size 1.750 Type Chart SR 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 (7.70) ² x sp. const. 10 = 593 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 593 psia (h)
P_t = (h) + (f) = 593 psia (i)
Wellhead casing shut-in pressure (Dwt) 1110 psig + 12 = 1122 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1110 psig + 12 = 1122 psia (k)
P_c = (j) or (k) whichever well flowed through = 1122 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 561 psia (n)

Q = 865 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 865 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{921,823}{871,071} \right]^n \cdot 1.044 = 903$ MCF/da.

SUMMARY

P_c = 1122 psia
Q = 865 Mcf/day
P_w = 605 psia
P_d = 561 psia
D = 903 Mcf/day

Company Geolastic, Inc.
By
Title Agent
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
3227	.209	66.146	13.824	351.649	365.473	605

OK

