

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 FULCHER KUTZ Formation P C County SAN JUAN
Purchasing Pipeline SOUTHERN UNION GAS Co. Date Test Filed MAY 1, 1961

Operator EPROG ASSOCIATES Lease BIMSON-FEDERAL Well No. 1
Unit C Sec. 17 Twp. 28 Rge. 10 Pay Zone: From 1951 To 1995
Casing: OD 5 1/2 WT. Set At 2035 Tubing: OD 1 1/2 WT. T. Perf. 2032
Produced Through: Casing Tubing X Gas Gravity: Measured .650 Estimated
Date of Flow Test: From 3/23/61 To 4/1/61 * Date S.I.P. Measured 1/25/60
Meter Run Size Orifice Size Type Chart Type Taps

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 (4.40)² x sp. const. 1000 = 194 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 194 psia (i)
Wellhead casing shut-in pressure (Dwt) 450 psig + 12 = 462 psia (j)
Wellhead tubing shut-in pressure (Dwt) 450 psig + 12 = 462 psia (k)
P_c = (j) or (k) whichever well flowed through = 462 psia (l)
Flowing Temp. (Meter Run) 50 °F + 460 = 510 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 231 psia (n)

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

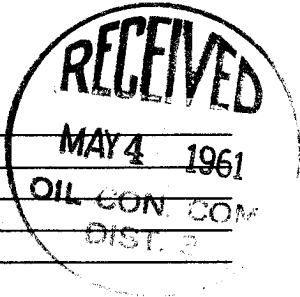
DELIVERABILITY CALCULATION

D = Q 111 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{160,083}{175,121} \right]^n \cdot .9266 = 103$ MCF/da.

SUMMARY

P_c = 462 psia
Q = 111 Mcf/day
P_w = 196 psia
P_d = 231 psia
D = 103 Mcf/day

Company GEOLLECTRIA, INC.
By B. H. [Signature]
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
1321	.092	7.469	.687	37,636	38,323	196

