

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Santa Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 6-10-64
Operator THE AMERICAN PETROLEUM CORP. Lease Colleges Canyon Unit Well No. 120
Unit P Sec. 10 Twp. 20N Rge. 13W Pay Zone: From _____ To _____
Casing: OD 4-1/2 WT. 10.5 Set At 6130 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6051
Produced Through: Casing _____ Tubing 2 Gas Gravity: Measured .674 Estimated _____
Date of Flow Test: From 4-27-64 To 5-4-64 * Date S.I.P. Measured 10-10-64
Meter Run Size 4" Orifice Size 1.250 Type Chart Sq. In. 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 (7.45) ² x sp. const. _____ = _____ psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 1714 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right] = \frac{3,042,300}{3,777,000} \times .6344 =$ 3444 MCF/day.

SUMMARY

P_c = 3001 psia
Q = 1714 Mcf/day
P_w = 300 psia
P_d = 3001 psia
D = 3444 Mcf/day

Company THE AMERICAN PETROLEUM CORP.
By F. L. HARRIS
Title MANAGER ENGINEER
Witnessed by WFS ORIGINAL SIGNED BY F. W. Felt
Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁶)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁶) R ²	P _t ² (Column 1)	P _t ² + R ²	P _w
4070	.237	230,094	66,741	240,300	240,301	300

