

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 Basin Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 2-14-64
Operator SAN AMERICAN PETROLEUM CORP. Lease Carson Gas Unit Well No. 1
Unit E Sec. 28 Twp. 30N Rge. 12W Pay Zone: From 6040 To 6072
Casing: OD 4-1/2 WT. 10.5 Set At 6146 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6053
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .657 Estimated _____
Date of Flow Test: From 1-9-64 To 1-17-64 * Date S.I.P. Measured 3-14-63
Meter Run Size 4 Orifice Size 1.500 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 (7.00) ² x sp. const. 10 _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 2023 psig + 12 = 2035 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2023 psig + 12 = 2041 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 903 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 763 MCF/day
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{3,123,240}{3,907,400}$ n 0.8453

SUMMARY

P_c = 2041 psia
Q = 903 Mcf/day
P_w = 200 psia
P_d = 2021 psia
D = 763 Mcf/day

Company SAN AMERICAN PETROLEUM CORP.
By FL HADEN
Title District Engineer
Witnessed by By J. W. Felt
Company F. W. Felt

- * 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
<u>3077</u>	<u>.251</u>	<u>72,400</u>	<u>18,172</u>	<u>240,100</u>	<u>258,272</u>	<u>200</u>

CORRECTED
COPY

OK



