

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 2-22-66
Operator NEW AMERICAN PETROLEUM CORP. Lease San American Natural "T" Well No. 1
Unit 2 Sec. 19 Twp. 36N Rge. 13E Pay Zone: From 4302 To 4312
Casing: OD 4-1/2 WT. 20.5 Set At 4430 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 4302
Produced Through: Casing Tubing 2 Gas Gravity: Measured .400 Estimated
Date of Flow Test: From 4-16-64 To 4-24-64 * Date S.I.P. Measured 2-6-66
Meter Run Size 4" Orifice Size 1.320 Type Chart Sp. B. 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 (1.30)² x sp. const. 30 = 200 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 200 psia (h)
P_t = (h) + (f) = 200 psia (i)
Wellhead casing shut-in pressure (Dwt) 2100 psig + 12 = 2112 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2000 psig + 12 = 2012 psia (k)
P_c = (j) or (k) whichever well flowed through = 2112 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1056 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \text{ } 646 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{2,147,200}{4,137,950} \right]^n \text{ } .4300 = \text{ } 302 \text{ MCF/da.}$$

SUMMARY

P_c = 2112 psia
Q = 646 Mcf/day
P_w = 302 psia
P_d = 1056 psia
D = 302 Mcf/day

Company NEW AMERICAN PETROLEUM CORPORATION
By F. L. Roberts
Title Manager Engineer
Witnessed by Byz
Company ORIGINAL SIGNED BY F. W. Ford

- * 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
<u>4470</u>	<u>0.267</u>	<u>36,000</u>	<u>9,630</u>	<u>206,960</u>	<u>206,960</u>	<u>302</u>



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