

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 4-14-64

Operator SAN AMERICAN PETROLEUM CORP. Lease McGrady Gas Unit Well No. 1
Unit D Sec. 19 Twp. 27N Rge. 12 Pay Zone: From 6128 To 6138
Casing: OD 4-1/2 WT. 10.5 Set At 6277 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6133
Produced Through: Casing Tubing X Gas Gravity: Measured .642 Estimated
Date of Flow Test: From 3-14-64 To 3-24-64 * Date S.I.P. Measured 9-23-63
Meter Run Size 4" Orifice Size 1.250 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 = 488 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) = 488 psia (h)
P_t = (h) + (f) = 488 psia (i)
Wellhead casing shut-in pressure (Dwt) 1943 psig + 12 = 1957 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1941 psig + 12 = 1953 psia (k)
P_c = (j) or (k) whichever well flowed through = 1957 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 979 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \times .8477 = 300 \text{ MCF/da.}$$

SUMMARY

P_c = 1957 psia
Q = 301 Mcf/day
P_w = 301 psia
P_d = 979 psia
D = 300 Mcf/day

Company SAN AMERICAN PETROLEUM CORPORATION
By F. L. Hubers
Title District Engineer
Witnessed by W. W. Fucili
Company W. W. Fucili



- * 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 + P _d ²	P _w ²
			R ²	(Column i)		
4873	.256	61,357	18,567	340,100	250,467	301