

Initial Deliverability
TestForm C-122-A
Revised April 20, 1955NEW 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 CO. Date Test Filed 12-31-62
Operator BRITISH AMERICAN OIL PROD. CO. Lease FULLERTON Well No. 11
Unit E Sec. 14 Twp. 27N Rge. 11W Pay Zone: From 6507 To 6541
Casing: OD 4 1/2 WT. 11.6 Set At 668.5 Tubing: OD NONE WT. T. Perf.
Produced Through: Casing ✓ Tubing Gas Gravity: Measured 0.689 Estimated
Date of Flow Test: From 11-28-62 To 12-6-62 * Date S.I.P. Measured 8-18-62
Meter Run Size 4" Orifice Size 1.250 Type Chart L-10 Type Taps FLANGE

OBSERVED DATA

Flowing casing pressure (Dwt) psig + 12 = psia (a)
Flowing tubing pressure (Dwt) TUBINGLESS COMPLETION 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 (7.25)² x sp. const. 10 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 526 psia (h)
P_t = (h) + (f) = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 186.0 psig + 12 = 187.2 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = psia (k)
P_c = (j) or (k) whichever well flowed through 187.2 psia (l)
Flowing Temp. (Meter Run) 75 °F + 46° = 535 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 93.6 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{823}{(\text{integrated})} \times \left(\frac{\sqrt{P_c} - \sqrt{P_d}}{\sqrt{P_c} - \sqrt{P_w}} \right)^{1.0} = 823 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$Q = 823 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.75} = \frac{2,628,388}{3,227,703}^{0.75} (0.8143) 0.8572 = 70.5 \text{ MCF/day}$$

SUMMARY

P_c = 187.2 psia
Q = 823 Mcf/day
P_w = 526 psia
P_d = 93.6 psia
D = 70.5 Mcf/day

Company BRITISH AMERICAN OIL PROD. CO.
By W. L. Stone / RN
Title FIELD SUPT
Witnessed by FRANK RENARD
Company BRITISH AMERICAN OIL PROD. CO.

- 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 1)	P _t ² + R ²	P _w
		FRICTION NEGLIGIBLE				

INITIAL DELIVERABILITY TEST

RECEIVED
JAN 1963

OIL CON. COMM.