

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 Sabota Formation Sabota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 5-25-64

Operator THE AMERICAN PETROLEUM CORP. Lease Gallegos Canyon Unit Well No. 137
Unit 3 Sec. 36 Twp. 20N Rge. 13E Pay Zone: From 2976 To 2980
Casing: OD 4-1/2 WT. 30.5 Set At 6100 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 2962
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .652 Estimated _____
Date of Flow Test: From 4-14-64 To 4-22-64 * Date S.I.P. Measured 5-13-63
Meter Run Size 4" Orifice Size 2.130 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 (7.85) ² x sp. const. 20 _____ = _____ 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) 2983 psig + 12 = 3095 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2983 psig + 12 = 3095 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 3095 psia (l)
Flowing Temp. (Meter Run) _____ °F + 450 _____ = _____ ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 1547 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \text{_____ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 3991 $\left[\frac{(P_c^2 - P_d^2) = \underline{3,104,901}}{(P_c^2 - P_w^2) = \underline{3,612,600}} \right]^n \cdot \underline{.2036} = \underline{3895} \text{ MCF/day.}$

SUMMARY

P_c = 3095 psia
Q = 3991 Mcf/day
P_w = 727 psia
P_d = 1547 psia
D = 3895 Mcf/day

Company THE AMERICAN PETROLEUM CORPORATION
By F. L. Hubert
Title District Engineer
Witnessed by Dye ORIGINAL SIGNED BY
Company E. W. Fuel

* 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>3095</u>	<u>.047</u>	<u>1,130,912</u>	<u>201,530</u>	<u>247,000</u>	<u>328,507</u>	<u>727</u>



