

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 12-24-64  
Operator THE AMERICAN PETROLEUM CORP. Lease O. L. Bondi Well No. 5  
Unit 8 Sec. 10 Twp. 24N Rge. 12W Pay Zone: From 6377 To 6399  
Casing: OD 4-1/2 WT. 10.5 Set At 6438 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6391  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .703 Estimated \_\_\_\_\_  
Date of Flow Test: From 11-21-64 To 11-25-64 \* Date S.I.P. Measured 7-20-64  
Meter Run Size 4" Orifice Size 1.500 Type Chart Sp. R. 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 (\_\_\_\_\_) <sup>2</sup> 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 (7.03) <sup>2</sup> x sp. const. 10 \_\_\_\_\_ = \_\_\_\_\_ psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = \_\_\_\_\_ psia (i)  
Wellhead casing shut-in pressure (Dwt) 1611 psig + 12 = 1623 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1611 psig + 12 = 1623 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1623 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 812 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{P_c}}{\sqrt{P_d}}} = \frac{\sqrt{P_c}}{\sqrt{P_d}} \right)^* = \text{_____ MCF/da}$   
(integrated)

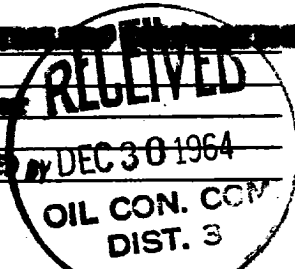
DELIVERABILITY CALCULATION

D = Q 1,436  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1,974,785}{2,313,183} \right]^n \frac{0.0001}{1} = \text{_____ MCF/da.}$

SUMMARY

P<sub>c</sub> = 1623 psia  
Q = 1436 Mcf/day  
P<sub>w</sub> = 812 psia  
P<sub>d</sub> = 812 psia  
D = 1471 Mcf/day

Company THE AMERICAN PETROLEUM CORPORATION  
By E. L. Bondi  
Title Director Engineer  
Witnessed by W. F. Pool ORIGINAL SIGNED BY DEC 30 1964  
Company E. W. Pool



- \* This is date of completion test.
- \* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e <sup>-S</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> ) R <sup>2</sup>	P <sub>t</sub> <sup>2</sup> (Column i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
<u>3004</u>	<u>0.305</u>	<u>242,435</u>	<u>73,937</u>	<u>247,009</u>	<u>230,946</u>	<u>812</u>

OLC