

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 Alamogordo-Pictured Cliffs Formation Pictured Cliffs County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 11-20-58

Operator PAN AMERICAN PETROLEUM CORP. Lease A. L. Elliott "D" Well No. 4  
Unit I Sec. 11 Twp. 29N Rge. 9W Pay Zone: From 2553 To 2595  
Casing: OD 5-1/2 WT. 14 Set At 2616 Tubing: OD 1.66 WT. 2.3 T. Perf. 2563  
Produced Through: Casing I Tubing \_\_\_\_\_ Gas Gravity: Measured 0.650 Estimated \_\_\_\_\_  
Date of Flow Test: From 10-7-58 To 10-13-58 \* Date S.I.P. Measured 7-21-58  
Meter Run Size 4 Orifice Size 1.2500 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 ( \_\_\_\_\_ ) <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 ( 6.70 ) <sup>2</sup> x sp. const. 5 \_\_\_\_\_ = \_\_\_\_\_ 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) 1064 psig + 12 = 1076 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1064 psig + 12 = 1076 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1076 psia (l)  
Flowing Temp. (Meter Run) 63 °F + 460 \_\_\_\_\_ = 523 ° Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 538 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 311  $\left[ \frac{(P_c^2 - P_d^2) = \underline{866,332}}{(P_c^2 - P_w^2) = \underline{1,107,600}} \right]^n \underline{0.813} = \underline{233}$  MCF/da.

SUMMARY

\* P<sub>c</sub> = 1076 psia  
Q = 311 Mcf/day  
P<sub>w</sub> = 226 psia  
P<sub>d</sub> = 538 psia  
D = 233 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION  
By E. M. Bauer, Jr.  
Title Field Engineer  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

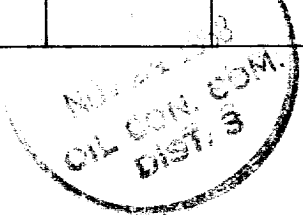
\* This is date of completion test.  
\* Meter error correction factor

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>

Friction loss negligible

\*furnished by pipeline company



OK