

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 \_\_\_\_\_ Formation Dakota County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-4-66

Operator Pan American Petroleum Corp. Lease Ulibarri Gas Com Well No. 3  
Unit N Sec. 35 Twp. 30 Rge. 9 Pay Zone: From 6632 To 6760  
Casing: OD 4 1/2 WT. 10.5 Set At 6866 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6592  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .610 Estimated \_\_\_\_\_  
Date of Flow Test: From 11-28-65 To 12-6-65 \* Date S.I.P. Measured 8-20-65  
Meter Run Size 4" Orifice Size \_\_\_\_\_ Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

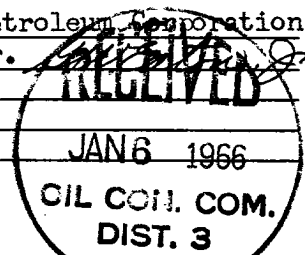
Flowing casing pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (a)  
Flowing tubing pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (b)  
Flowing meter pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken):  
Normal 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 ( 7.3 )<sup>2</sup> x sp. const. \_\_\_\_\_ = 533 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 533 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 533 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1754 psig + 12 = 1766 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1627 psig + 12 = 1639 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1766 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 883 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^{.8675} = \text{_____} \text{ MCF/da}$   
(integrated)

DELIVERABILITY CALCULATION  
D = Q 585  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.8675} = \frac{2,339,067}{2,827,013}^{.8675} = \frac{507}{\text{_____}} \text{ MCF/da.}$

SUMMARY  
P<sub>c</sub> = 1766 psia  
Q = 585 Mcf/day  
P<sub>w</sub> = 540 psia  
P<sub>d</sub> = 883 psia  
D = 507 Mcf/day

Company Pan American Petroleum Corporation  
By G. W. Eaton, Jr.  
Title Area 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>
<u>4021</u>	<u>.253</u>	<u>30.252</u>	<u>7.654</u>	<u>284.089</u>	<u>291,743</u>	<u>540</u>

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