

3-New Mexico Oil Conservation Commission -Astec  
1-Bill Cutler  
1-L. D. Galloway  
2-File

Form C-122-A  
Revised April 20, 1955

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 Blanco Formation Mesa Verde County Rio Arriba  
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 3-12-58  
Operator PACIFIC NORTHWEST PIPELINE Lease Rosa Well No. 24-32  
Unit M Sec. 32 Twp. 31N Rge. 5W Pay Zone: From \_\_\_\_\_ To \_\_\_\_\_  
Casing: OD 5-1/2" WT. 14.0 Set At 5947' Tubing: OD 2-3/8" WT. 4.7 T. Perf. 5874'  
Produced Through: Casing \_\_\_\_\_ Tubing x x Gas Gravity: Measured .595 Estimated \_\_\_\_\_  
Date of Flow Test: From 12-23-57 To 12-31-57 \* Date S.I.P. Measured 2-28-57  
Meter Run Size \_\_\_\_\_ Orifice Size \_\_\_\_\_ Type Chart \_\_\_\_\_ Type Taps \_\_\_\_\_

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 (7.4) <sup>2</sup> x sp. const. 10 = 548 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 548 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1195 psig + 12 = 1207 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1207 psia (l)  
Flowing Temp. (Meter Run) 51 °F + 460 \_\_\_\_\_ = 511 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 603.5 psia (n)

Q = 379 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) =$  \_\_\_\_\_ MCF/day  
(integrated)

DELIVERABILITY CALCULATION

D = Q 379  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(0.9471)^{.75}}{0.9601} =$  364 MCF/day.

SUMMARY

P<sub>c</sub> = 1207 psia Company PACIFIC NORTHWEST PIPELINE CORP.  
Q = 379 Mcf/day By Original signed by G. H. Pepp'n  
P<sub>w</sub> = 551 psia Title District Production Engineer  
P<sub>d</sub> = 603.5 psia Witnessed by \_\_\_\_\_  
D = 364 Mcf/day 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>3495</u>	<u>0.224</u>	<u>12.695</u>	<u>2.844</u>	<u>300.301</u>	<u>303.148</u>	<u>551</u>

F<sub>c</sub> 9.402

OK



