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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 PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed 1-21-58

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 32-7 Well No. 18-5  
 Unit I Sec. 5 Twp. 31N Rge. 7W Pay Zone: From 5574' To 6070'  
 Casing: OD 5" WT. \_\_\_\_\_ Set At 6100' Tubing: OD 1-1/4" WT. \_\_\_\_\_ T. Perf. 6042'  
 Produced Through: Casing \_\_\_\_\_ Tubing x x Gas Gravity: Measured .578 Estimated \_\_\_\_\_  
 Date of Flow Test: From 12-31-57 To 1-8-58 \* Date S.I.P. Measured 10-16-57  
 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 491 psig + 12 = 503 psia (g)  
 Square root chart average reading (\_\_\_\_\_) <sup>2</sup> x sp. const. \_\_\_\_\_ = \_\_\_\_\_ psia (g)  
 Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 503 psia (h)  
 P<sub>t</sub> = (h) + (f) = 503 psia (i)  
 Wellhead casing shut-in pressure (Dwt) 1188 psig + 12 = 1200 psia (j)  
 Wellhead tubing shut-in pressure (Dwt) 450 psig + 12 = 462 psia (k)  
 P<sub>c</sub> = (j) or (k) whichever well flowed through = 1200 psia (l)  
 Flowing Temp. (Meter Run) 62 °F + 460 = 522 ° Abs (m)  
 P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 600 psia (n)

FLOW RATE CALCULATION

Q = 669 (integrated) X  $\left( \frac{\sqrt{P_c} - \sqrt{P_d}}{\sqrt{P_c} - \sqrt{P_w}} \right)^2 =$  \_\_\_\_\_ MCF/day

DELIVERABILITY CALCULATION

D = Q 669  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.75} = \frac{1,080,000}{1,125,950}^{0.75} =$  648 MCF/day

SUMMARY

P<sub>c</sub> = 1200 psia  
 Q = 669 Mcf/day  
 P<sub>w</sub> = 560 psia  
 P<sub>d</sub> = 600 psia  
 D = 648 Mcf/day  
 Company PACIFIC NORTHWEST PIPELINE  
 By Original signed by G. H. Peppin  
 Title District Production 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>
3508	0.225	271.294	61.041	253.009	314.050	560



*Handwritten initials*

