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Initial Deliverability  
Test

Form C-122-A  
Revised April 20, 1955

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 Manco Formation Mesa Verde County Rio Arriba  
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 2-12-58  
Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-5 Well No. 30-28  
Unit L Sec. 28 Twp. 29N Rge. 7W Pay Zone: From 5486' To 5994'  
Casing: OD 5-1/2" WT.  Set At 6030' Tubing: OD 1-1/4" WT. 2.4 T. Perf. 5931'  
Produced Through: Casing  Tubing X X Gas Gravity: Measured .690 Estimated   
Date of Flow Test: From 11-22-57 To 11-30-57 \* Date S.I.P. Measured 7-8-57  
Meter Run Size  Orifice Size 1.250 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 ( 7.70 ) <sup>2</sup> x sp. const. 10.00 = 593 psia (g)  
Corrected seven day avge. meter press. (P<sub>f</sub>) (g) + (e)  = 593 psia (h)  
P<sub>t</sub> = (h) + (f)  = 593 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1089 psig + 12 = 1101 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1092 psig + 12 = 1104 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through  = 1104 psia (l)  
Flowing Temp. (Meter Run) 50 °F + 460  = 510 ° Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l)  = 552 psia (n)

Q = 799 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}}} \right)^{.75}$  = 799 MCF/da  
(Integrated)

DELIVERABILITY CALCULATION

D = Q 799  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.191)^{.75}}{1.140}$  = 911 MCF/da.

SUMMARY

P<sub>c</sub> = 1104 psia  
Q = 799 Mcf/day  
P<sub>w</sub> = 672 psia  
P<sub>d</sub> = 552 psia  
D = 911 Mcf/day

PACIFIC NORTHWEST PIPELINE  
Company Original signed by G. H. Peppin  
By District Production Engineer  
Title   
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>4092</u>	<u>0.257</u>	<u>326.948</u>	<u>99.446</u>	<u>351.649</u>	<u>451.095</u>	<u>672</u>



