

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 Undesignated Formation Pictured Cliffs County Rio Arriba  
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 7-18-58  
Operator Northwest Production Corp. Lease "B" Well No. 11-15  
Unit 6 Sec. 13 Twp. 25N Rge. 3W Pay Zone: From 3726 To 3792  
Casing: OD 7-5/8 WT. 21.4 Set At 3992 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 3721  
Produced Through: Casing    Tubing X Gas Gravity: Measured 0.680 Estimated     
Date of Flow Test: From 6-21-58 To 6-25-58 \* Date S.I.P. Measured 2-12-58  
Meter Run Size 4.026 Orifice Size 0.373 Type Chart 1-10 Type Taps 71.4

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 463 psig + 12 = 475 psia (g)  
Square root chart average reading (    ) <sup>2</sup> x sp. const.    =    psia (g)  
Corrected seven day ave. meter press. (p<sub>f</sub>) (g) + (e)    = 475 psia (h)  
P<sub>t</sub> = (h) + (f)    = 475 psia (i)  
Wellhead casing shut-in pressure (Dwt) 637 psig + 12 = 639 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 637 psig + 12 = 639 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through    = 639 psia (l)  
Flowing Temp. (Meter Run) 73 °F + 460    = 535 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l)    = 320 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 30  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{303,921}{102,547} \right]^n \frac{1,5500}{(1,6750)^n} = \text{  }$  MCF/day.

SUMMARY

P<sub>c</sub> = 639 psia  
Q = 30 Mcf/day  
P<sub>w</sub> = 475 psia  
P<sub>d</sub> = 320 psia  
D = 30 Mcf/day

Company Northwest Production Corp.  
By Ray Phillips RAY PHILLIPS  
Title Manager, Prod Operations  
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>
2340	0.170	0.076	140	203,875	223,774	475.2

Fe = 24.62

OK



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1904-1905

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2166-2167

2168-2169

2170-2171

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2178-2179

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2196-2197

2198-2199

2200-2201

2202-2203

2204-2205

2206-2207

2208-2209

2210-2211

2212-2213

2214-2215

2216-2217

2218-2219

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2222-2223

2224-2225

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2236-2237

2238-2239

2240-2241

2242-2243

2244-2245

2246-2247

2248-2249

2250-2251

2252-2253

2254-2255

2256-2257

2258-2259

2260-2261

2262-2263

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