

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 77

Form C122-A
 Revised 1-1-66

POOL NAME Basin	POOL SLOPE n= .75	FORMATION Dakota	COUNTY Rio Arriba
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89655

COMPANY Northwest Pipeline Corporation			WELL NAME AND NUMBER San Juan 29-5 Unit #77		
UNIT LETTER L	SECTION 26	TOWNSHIP 29	RANGE 5	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8555	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 8498
GAS PAY ZONE FROM 8448 TO 8514		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .604	GRAVITY X LENGTH 5133 ✓
DATE OF FLOW TEST FROM Aug. 6 TO Aug. 14			DATE SHUT-IN PRESSURE MEASURED July 18, 1975		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 256 ✓	(b) Flowing Tubing Pressure (DWt) 256 ✓	(c) Flowing Meter Pressure (DWt) 2603	(d) Flow Chart Static Reading 2029	(e) Meter Error (Item c - Item d) 2603 ✓	(f) Friction Loss (a - c) or (b - c) 1302 ✓	(g) Average Meter Pressure (Integr.) 256
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d =$ 50 % P_c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 690	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 690 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.312 ✓	$(F_c Q_m)^2 (1000)$ 42086 ✓	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 13131 ✓	P_t^2 65536 ✓	$P_w^2 = P_t^2 + R^2$ 78667 ✓	$P_w = \sqrt{P_w^2}$ 280 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 690 ✓	$\left[\frac{5080405}{6696942} \right]^n =$.7586 ✓	$\left[\frac{5080405}{6696942} \right]^n =$.8128 ✓	$=$ 561 ✓ MCF/D
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REMARKS: **Initial Test**

First Delivered 7-19-77



SUMMARY

Item h **256** ✓ Psia
 P_c **2603** ✓ Psia
 Q **690** ✓ MCF/D
 P_w **280** ✓ Psia
 P_d **1302** ✓ Psia
 D **561** ✓ MCF/D

Company **Northwest Pipeline Corporation**
 By **B.J. Broughton**
 Title **Well Test Foreman**
 Witnessed By _____
 Company _____