

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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86958

COMPANY Northwest Pipeline Corporation			WELL NAME AND NUMBER San Juan 30-5 Unit #39		
UNIT LETTER G	SECTION 7	TOWNSHIP 30	RANGE 5	PURCHASING PIPELINE Northwest Pipeline Corp.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7860	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7817
GAS PAY ZONE FROM 7697 TO 7822		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .580	GRAVITY X LENGTH 4534
DATE OF FLOW TEST FROM Sept. 7 TO Sept. 14			DATE SHUT-IN PRESSURE MEASURED Sept. 21, 1977		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 206	(b) Flowing Tubing Pressure (DWt) 206	(c) Flowing Meter Pressure (DWt) 1585	(d) Flow Chart Static Reading 1402	(e) Meter Error (Item c - Item d) 1585	(f) Friction Loss (a - c) or (b - c) 793	(g) Average Meter Pressure (Integr.) 206
(h) Corrected Meter Pressure (g + e) 206	(i) Avg. Wellhead Press. $P_t = (h + f)$ 206	(j) Shut-in Casing Pressure (DWt) 1585	(k) Shut-in Tubing Pressure (DWt) 1402	(l) $P_c =$ higher value of (j) or (k) 1585	(m) Del. Pressure $P_d =$ <u>50</u> % P_c 793	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 200	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 200 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.281	$(F_c Q_m)^2 (1000)$ 3536	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 994	P_t^2 42436	$P_w^2 = P_t^2 + R^2$ 43430	$P_w = \sqrt{P_w^2}$ 208
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 200	$\left[\frac{1883376}{2468795} \right]^n =$.7629	$\left[\frac{1883376}{2468795} \right]^n =$.8163	$=$ 163 MCF/D
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REMARKS:

Initial Test
First delivered 7-13-77



SUMMARY

Item h **206** Psia
 P_c **1585** Psia
 Q **200** MCF/D
 P_w **208** Psia
 P_d **793** Psia
 D **163** MCF/D

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