

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 78

Form C122-A
 Revised 1-1-66

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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85108

COMPANY Northwest Pipeline Corporation			WELL NAME AND NUMBER Carson Rosa Unit #1		
UNIT LETTER D	SECTION 10	TOWNSHIP 31	RANGE 5	PURCHASING PIPELINE Northwest Pipeline Corp.	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 4.950	SET AT DEPTH - FEET 8195	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 8166
GAS PAY ZONE FROM 8166 TO 8178		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .590	GRAVITY X LENGTH 4818 ✓
DATE OF FLOW TEST FROM Dec. 21 TO Dec. 29			DATE SHUT-IN PRESSURE MEASURED Nov. 3, 1978		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.)
						324
(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 $P_d = \frac{50.80}{1394} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
324 ✓	324 ✓	2787	2712	2787 ✓	1394	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
563	1.0000	1.0000	Q = 563 MCF/D

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.296 ✓	28019 ✓	8294 ✓	104976 ✓	113270 ✓	337 ✓

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	563	$\left[\frac{5824133}{7654099} \right]^n =$	.7609	$=$	.8147	$=$	459 MCF/D
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REMARKS: Initial Test - 1st Delivered 11/3/78



SUMMARY

Item h **324** ✓ Psia
 P_c **2787** ✓ Psia
 Q **563** ✓ MCF/D
 P_w **337** ✓ Psia
 P_d **1394** ✓ Psia
 D **459** ✓ MCF/D

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

