

NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 78

Form C122-A
Revised 1-1-66

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY Rio Arriba
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85112

COMPANY Northwest Pipeline Corporation			WELL NAME AND NUMBER San Juan 29-6 Unit #20A		
UNIT LETTER D	SECTION 8	TOWNSHIP 29	RANGE 6	PURCHASING PIPELINE Northwest Pipeline Corp.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6065	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5975
GAS PAY ZONE FROM 5552 TO 6000		WELL PRODUCING THRU CASING XX TUBING XX		GAS GRAVITY .673	GRAVITY X LENGTH 4021 ✓
DATE OF FLOW TEST FROM Dec. 22 TO Dec. 30			DATE SHUT-IN PRESSURE MEASURED Oct. 4, 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.)
						182
(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 $P_d = \text{ } \%$ P_c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
182 ✓	182	751	751	751 ✓	601 ✓	

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
641	1.0000	1.0000	Q = 641 ✓ MCF/D

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 1.253 254	$(F_c Q_m)^2 (1000)$ 36321 ✓	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 9189 9226	P_t^2 33124 ✓	$P_w^2 = P_t^2 + R^2$ 112313 42350	$P_w = \sqrt{P_w^2}$ 206 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	641	$\left[\frac{202800}{521652} \right]^n =$	.3888 ✓	$=$	.4924 ✓	$=$	316 ✓	MCF/D
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REMARKS: Initial Test - 1st Delivered 11/16/78

SUMMARY

Item h **182** ✓ Psia
 P_c **751** ✓ Psia
 Q **641** ✓ MCF/D
 P_w **206** ✓ Psia
 P_d **601** ✓ Psia
 D **316** ✓ MCF/D

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



OK

