

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 76

Form C122-A
 Revised 1-1-66

POOL NAME Gavilan	POOL SLOPE n: .85	FORMATION Pictured Cliffs	COUNTY Rio Arriba
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86867

COMPANY Northwest Pipeline Corporation			WELL NAME AND NUMBER Jicarilla 93 #5		
UNIT LETTER A	SECTION 34	TOWNSHIP 27	RANGE 3	PURCHASING PIPELINE Northwest Pipeline Corp.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 4016	TUBING O.D. - INCHES None	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3922 TO 3943		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .688	GRAVITY X LENGTH 2698
DATE OF FLOW TEST FROM Feb. 17 TO Feb. 25, 1976			DATE SHUT-IN PRESSURE MEASURED March 3, 1976		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 176	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt) 175	(d) Flow Chart Static Reading 172	(e) Meter Error (Item c - Item d) 3	(f) Friction Loss (a - c) or (b - c) 1	(g) Average Meter Pressure (Integr.) 178
(h) Corrected Meter Pressure (g + e) 181	(i) Avg. Wellhead Press. $P_t = (h + f)$ 182	(j) Shut-in Casing Pressure (DWt) 695	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k) 695	(m) Del. Pressure $P_d = \frac{80}{556} \% P_c$ 556	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 425	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0174	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0087	Corrected Volume Q = 429 MCF/D
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WORKING PRESSURE CALCULATION

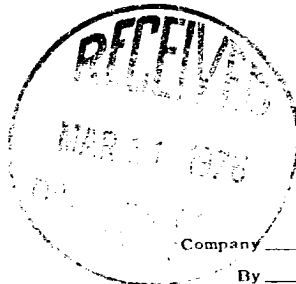
$(1 - e^{-s})$.178	$(F_c Q_m)^2 (1000)$ 5671	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 1009	P_t^2 33124	$P_w^2 = P_t^2 + R^2$ 34133	$P_w = \sqrt{P_w^2}$ 185
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 429	$\left[\frac{173889}{448892} \right]^n =$.3874	$\left[\frac{173889}{448892} \right]^n =$.4466	$=$ 192 MCF/D
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REMARKS:

Initial and annual
 First delivered 1-20-76



SUMMARY

Item h **181** Psia
 P_c **695** Psia
 Q **429** MCF/D
 P_w **185** Psia
 P_d **556** Psia
 D **192** MCF/D

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