

NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 68Form C122-A
Revised 1-1-66

POOL NAME Basin Dakota	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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COMPANY Jerome P. McHugh			WELL NAME AND NUMBER Jicarilla #4		
UNIT LETTER L R	SECTION 31	TOWNSHIP 26N	RANGE 4W	PURCHASING PIPELINE EPNG Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7587'	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7530'
GAS PAY ZONE FROM 7361' TO 7543'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 5105
DATE OF FLOW TEST FROM 11/16/68 TO 11/24/68			DATE SHUT-IN PRESSURE MEASURED 6-26-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 607	(b) Flowing Tubing Pressure (DWt) 508	(c) Flowing Meter Pressure (DWt) 471	(d) Flow Chart Static Reading 7.05 497	(e) Meter Error (Item c - Item d) - 26	(f) Friction Loss (a - c) or (b - c) 37	(g) Average Meter Pressure (Integr.) 512
(h) Corrected Meter Pressure (g + e) 486	(i) Avg. Wellhead Press. $P_t = (h + f)$ 523	(j) Shut-in Casing Pressure (DWt) 2439	(k) Shut-in Tubing Pressure (DWt) 2414	(l) $P_c =$ higher value of (j) or (k) 2439	(m) Del. Pressure $P_d = 50\% P_c$ 1220	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1455	Quotient of $\frac{\text{Item c}}{\text{Item d}}$.9477	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$.9735	Corrected Volume Q = 1416 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.310	$(F_c Q_m)^2 (1000)$ 177,241	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 54,945	P_t^2 273,529	$P_w^2 = P_t^2 + R^2$ 328,474	$P_w = \sqrt{P_w^2}$ 573
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1416	$\left[\frac{4,460,321}{5,620,247} \right]^n =$.7936	$\left[\frac{4,460,321}{5,620,247} \right]^n =$.8408	$\left[\frac{4,460,321}{5,620,247} \right]^n =$.75	11 91 MCF/D
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REMARKS:

SUMMARY

Item h **486** Psia
 P_c **2439** Psia
 Q **1416** MCF/D
 P_w **573** Psia
 P_d **1220** Psia
 D **1191** MCF/D

Company **Jerome P. McHugh**
 By **Jim H. Jacobs**
 Title **Agent**
 Witnessed By _____
 Company _____



