

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 "A" #5		
UNIT LETTER E	SECTION 17	TOWNSHIP 26N	RANGE 3 W	PURCHASING PIPELINE EPNG Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES	SET AT DEPTH - FEET 8220'	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 8121'
GAS PAY ZONE FROM 7980' TO 8154'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 5506'
DATE OF FLOW TEST FROM 12/11/69 TO 12/19/69			DATE SHUT-IN PRESSURE MEASURED 10/18/69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 708	(b) Flowing Tubing Pressure (DWt) 470	(c) Flowing Meter Pressure (DWt) 464	(d) Flow Chart Static Reading $\frac{6.8}{462}$	(e) Meter Error (Item c - Item d) + 2	(f) Friction Loss (a - c) or (b - c) + 6	(g) Average Meter Pressure (Integr.) 498
(h) Corrected Meter Pressure (g + e) 500	(i) Avg. Wellhead Press. $P_t = (h + f)$ 506	(j) Shut-in Casing Pressure (DWt) 2382	(k) Shut-in Tubing Pressure (DWt) 2218	(l) P_c = higher value of (j) or (k) 2382	(m) Del. Pressure $P_d = \frac{50}{1192} \% P_c$ 1192	(n) Separator or Dehydrator Pr. (DWt) for critical flow only ---

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 433	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0043	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0021	Corrected Volume $Q = 434$ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.330	$(F_c Q_m)^2 (1000)$ 114,170	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 37,676	P_t^2 256,036	$P_w^2 = P_t^2 + R^2$ 293,712	$P_w = \sqrt{P_w^2}$ 542
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 434	$\left[\frac{4,257,825}{5,384,977} \right]^n =$.8386	$\left(\frac{.7907}{.75} \right)^n =$.364 MCF/D
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REMARKS:

SUMMARY

Item h **500** Psia
 P_c **2383** Psia
 Q **434** MCF/D
 P_w **542** Psia
 P_d **1192** Psia
 D **364** MCF/D

Company **Jerome P. McHugh**
 By **Jim L. J...**
 Title **Agent**
 Witnessed By _____
 Company _____

