

3 OCC ✓ 1 El Paso
1 McHugh
1 File

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 70

Form 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 "A" 4		
UNIT LETTER L	SECTION 19	TOWNSHIP 26N	RANGE 3W	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 5 1/2"	CASING I.D. - INCHES	SET AT DEPTH - FEET 8278'	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 7960'
GAS PAY ZONE FROM 8020' TO 8201'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 5397'
DATE OF FLOW TEST FROM 1/21/70 TO 1/29/70			DATE SHUT-IN PRESSURE MEASURED 10/25/69		

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.) 361
(h) Corrected Meter Pressure (g + e) 361	(i) Avg. Wellhead Press. $P_t = (h + f)$ 361	(j) Shut-in Casing Pressure (DWt) ---	(k) Shut-in Tubing Pressure (DWt) 1360	(l) P_c = higher value of (j) or (k) 1360	(m) Del. Pressure $P_d = \underline{50} \% P_c$ 680	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 52	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume Q = 52 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 0.325	$(F_c Q_m)^2 (1000)$ 1,639	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 533	P_t^2 130,321	$P_w^2 = P_t^2 + R^2$ 130,854	$P_w = \sqrt{P_w^2}$ 362
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{52}$	$\left[\frac{1,387,200}{1,715,046} \right]^n = \underline{.8071}$	$\left(\frac{.75}{.8525} \right)^n = \underline{.8515}$	44 MCF/D
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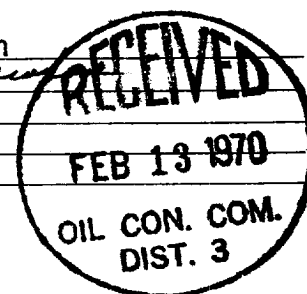
REMARKS:

1718746

SUMMARY

Item h **361** Psia
P_c **1360** Psia
Q **52** MCF/D
P_w **362** Psia
P_d **680** Psia
D **44** MCF/D

Company **Jerome P. McHugh**
By **John D. Jam**
Title **Agent**
Witnessed By
Company



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