

3 OCC 1 NWP (Farm) 1 NWP (El Paso) 1 McHugh 1 EPNG 1 File
NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-66

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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COMPANY Jerome P. McHugh			WELL NAME AND NUMBER Jicarilla #8		
UNIT LETTER L	SECTION 32	TOWNSHIP 26N	RANGE 4W	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500"	CASING I.D. - INCHES 4.092"	SET AT DEPTH - FEET 7730'	TUBING O.D. - INCHES 2.375"	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7642'
GAS PAY ZONE FROM 7501' TO 7672'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 5181' ✓
DATE OF FLOW TEST FROM 3/3/69 TO 4/8/69			DATE SHUT-IN PRESSURE MEASURED 10/22/68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 647	(b) Flowing Tubing Pressure (DWt) 521	(c) Flowing Meter Pressure (DWt) 485	(d) Flow Chart Static Reading 7.1 504	(e) Meter Error (Item c - Item d) -19 ✓	(f) Friction Loss (a - c) or (b - c) +36 ✓	(g) Average Meter Pressure (Integr.) 512
(h) Corrected Meter Pressure (g + e) 493 ✓	(i) Avg. Wellhead Press. $P_t = (h + f)$ 529 ✓	(j) Shut-in Casing Pressure (DWt) 2434	(k) Shut-in Tubing Pressure (DWt) 2152	(l) P_c = higher value of (j) or (k) 2434 ✓	(m) Del. Pressure $P_d = \frac{50}{\%P_c}$ 1217 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only ---

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 978	Quotient of $\frac{\text{Item c}}{\text{Item d}}$.9623 ✓	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$.9810 ✓	Corrected Volume Q = 959 ✓ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.314 ✓	$(F_c Q_m)^2 (1000)$ 81,297 ✓	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 25,527 ✓	P_t^2 279,841 ✓	$P_w^2 = P_t^2 + R^2$ 305,368 ✓	$P_w = \sqrt{P_w^2}$ 553 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 959 ✓	$\left[\frac{4,443,267}{5,618,988} \right]^n (.7908) ^n .75 =$.8386 ✓	804 ✓ MCF/D
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REMARKS:

Well first delivered 3/5/69

SUMMARY

Item h	493 ✓	Psia
P_c	2434 ✓	Psia
Q	959 ✓	MCF/D
P_w	553 ✓	Psia
P_d	1217 ✓	Psia
D	804 ✓	MCF/D

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



