

3 OCC 1 NWP (Farm) 1 NWP (El Paso) 1 McHugh 1 El Paso 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 #7		
UNIT LETTER D	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 7724'	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 7649'
GAS PAY ZONE FROM 7497' TO 7666'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 5186'
DATE OF FLOW TEST FROM 3/31/69 TO 4/8/69			DATE SHUT-IN PRESSURE MEASURED 10/22/68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 711	(b) Flowing Tubing Pressure (DWt) 505	(c) Flowing Meter Pressure (DWt) 484	(d) Flow Chart Static Reading $\frac{6.95}{483}$	(e) Meter Error (Item c - Item d) +1	(f) Friction Loss (a - c) or (b - c) +21	(g) Average Meter Pressure (Integr.) 490
(h) Corrected Meter Pressure (g + e) 491	(i) Avg. Wellhead Press. $P_t = (h + f)$ 512	(j) Shut-in Casing Pressure (DWt) 2434	(k) Shut-in Tubing Pressure (DWt) 2382	(l) $P_c =$ higher value of (j) or (k) 2434	(m) Del. Pressure $P_d = 50$ % P_c 1217	(n) Separator or Dehydrator Pr. (DWt) for critical flow only ----

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 807	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0021	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0010	Corrected Volume Q = 808 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.314	$(F_c Q_m)^2 (1000)$ 395,729	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 124,259	P_t^2 262,144	$P_w^2 = P_t^2 + R^2$ 386,403	$P_w = \sqrt{P_w^2}$ 622
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 808	$\left[\frac{4,443,267}{5,537,953} \right]^n =$.8023	$\left[\frac{4,443,267}{5,537,953} \right]^n =$.8477	685 MCF/D
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REMARKS:

Well first delivered 3/5/69

SUMMARY

Item h **491** Psia
P_c **2434** Psia
Q **808** MCF/D
P_w **622** Psia
P_d **1217** Psia
D **685** MCF/D

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

