

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 69

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 #6		
UNIT LETTER L	SECTION 29	TOWNSHIP 26N	RANGE 4W	PURCHASING PIPELINE EPNG Co.	
CASING O.D. - INCHES 4 1/2"	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7744'	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 7666'
GAS PAY ZONE FROM 7526' TO 7689'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .644	GRAVITY X LENGTH 4937'
DATE OF FLOW TEST FROM 2/30/69 TO 3/8/69			DATE SHUT-IN PRESSURE MEASURED 10/22/68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 784	(b) Flowing Tubing Pressure (DWt) 502	(c) Flowing Meter Pressure (DWt) 498	(d) Flow Chart Static Reading 7.1 504	(e) Meter Error (Item c - Item d) -6	(f) Friction Loss (a - c) or (b - c) + 4	(g) Average Meter Pressure (Integr.) 490
(h) Corrected Meter Pressure (g + e) 484	(i) Avg. Wellhead Press. P _t = (h + f) 488	(j) Shut-in Casing Pressure (DWt) 2383	(k) Shut-in Tubing Pressure (DWt) 2222	(l) P _c = higher value of (j) or (k) 2383	(m) Del. Pressure P _d = 50 %P _c 1192	(n) Separator or Dehydrator Pr. (DWt) for critical flow only ---

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 369	Quotient of $\frac{\text{Item c}}{\text{Item d}}$.9881	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$.9940	Corrected Volume Q = 367 MCF/D
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24.62

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.302	$(F_c Q_m)^2 (1000)$ 81,641	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 24,656	P_t^2 238,144	$P_w^2 = P_t^2 + R^2$ 262,800	$P_w = \sqrt{P_w^2}$ 513
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 367	$\left[\frac{4,257,825}{5,415,889} \right]^n \left(.7862 \right)^n =$.8350	$= \frac{.75}{.8350} =$ 306 MCF/D
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REMARKS:

SUMMARY

Item h	484	Psia
P _c	2383	Psia
Q	367	MCF/D
P _w	513	Psia
P _d	1192	Psia
D	306	MCF/D

OK

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



