

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-66

POOL NAME Basin	POOL SLOPE $n = .75$	FORMATION Dakota	COUNTY San Juan
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COMPANY Jerome P. McHugh			WELL NAME AND NUMBER Nassau #2		
UNIT LETTER C	SECTION 24	TOWNSHIP 27N	RANGE 13W	PURCHASING PIPELINE El Paso Nat. Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6095'	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 5990'
GAS PAY ZONE FROM 5480' TO 5996'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 657	GRAVITY X LENGTH 3935'
DATE OF FLOW TEST FROM 5/20/71 TO 5/28/71			DATE SHUT-IN PRESSURE MEASURED 6/12/71		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 726	(b) Flowing Tubing Pressure (DWt) 336	(c) Flowing Meter Pressure (DWt) 333	(d) Flow Chart Static Reading 5.8 336	(e) Meter Error (Item c - Item d) -3	(f) Friction Loss (a - c) or (b - c) +3	(g) Average Meter Pressure (Integr.) 354
(h) Corrected Meter Pressure (g + e) 351	(i) Avg. Wellhead Press. $P_t = (h + f)$ 354	(j) Shut-in Casing Pressure (DWt) 1410	(k) Shut-in Tubing Pressure (DWt) 1408	(l) P_c = higher value of (j) or (k) 1410	(m) Del. Pressure $P_d = .50 \% P_c$ 705	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 490	Quotient of $\frac{\text{Item c}}{\text{Item d}}$.9911	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$.9955	Corrected Volume Q = 488 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.249	$(F_c Q_m)^2 (1000)$ 144,349	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 35,943	P_t^2 125,316	$P_w^2 = P_t^2 + R^2$ 161,259	$P_w = \sqrt{P_w^2}$ 402
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 488	$\left[\frac{1,491,075}{1,826,841} \right]^n =$.8162	$\left[\frac{1,491,075}{1,826,841} \right]^n =$.8587	$\left[\frac{1,491,075}{1,826,841} \right]^n =$ 419 MCF/D
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REMARKS:

Initial & Annual Test

SUMMARY

Item h	351	Psia
P_c	1410	Psia
Q	488	MCF/D
P_w	402	Psia
P_d	705	Psia
D	419	MCF/D

RECEIVED
JUN 22 1971
OIL CON. COM.

Company **Jerome P. McHugh**
By **Maxine Wheeler**
Title **Agent**
Witnessed By _____
Company _____

