

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 #1		
UNIT LETTER A	SECTION 36	TOWNSHIP 27N	RANGE 12W	PURCHASING PIPELINE El Paso Nat. Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6227'	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 6132'
GAS PAY ZONE FROM 6130' TO 6088'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 706	GRAVITY X LENGTH 4329'
DATE OF FLOW TEST FROM 5/14/71 TO 5/22/71			DATE SHUT-IN PRESSURE MEASURED 6/13/71		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 822	(b) Flowing Tubing Pressure (DWt) 414	(c) Flowing Meter Pressure (DWt) 376	(d) Flow Chart Static Reading 8.6 370	(e) Meter Error (Item c - Item d) +6 ✓	(f) Friction Loss (a - c) or (b - c) +38 ✓	(g) Average Meter Pressure (Integr.) 328
(h) Corrected Meter Pressure (g + e) 334 ✓	(i) Avg. Wellhead Press. $P_t = (h + f)$ 372 ✓	(j) Shut-in Casing Pressure (DWt) 1276	(k) Shut-in Tubing Pressure (DWt) 1275	(l) P_c = higher value of (j) or (k) 1276 ✓	(m) Del. Pressure $P_d =$.50 % P_c 638 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 726	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0162 ✓	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0081 ✓	Corrected Volume Q = 732 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.270 ✓	$(F_c Q_m)^2 (1000)$ 324,787 ✓	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 87,692 ✓	P_t^2 138,384 ✓	$P_w^2 = P_t^2 + R^2$ 226,076 ✓	$P_w = \sqrt{P_w^2}$ 475 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 732	$\left[\frac{1,221,132}{1,402,100} \right]^n =$.8709 ✓	$\left[\frac{.75}{.9015} \right]^n =$.660 ✓	MCF/D
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REMARKS:

Initial & Annual Test

SUMMARY

Item h **334** Psia
 P_c **1276** Psia
 Q **732** MCF/D
 P_w **475** Psia
 P_d **638** Psia
 D **660** MCF/D

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



