

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 1968

Form C122-A
Revised 1-1-66

POOL NAME Basin Dakota	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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COMPANY Jerome P. McHugh			WELL NAME AND NUMBER Jicarilla #1		
UNIT LETTER D	SECTION 30	TOWNSHIP 26N	RANGE 4W	PURCHASING PIPELINE El Paso Nat. Gas Co.	
CASING O.D. - INCHES 4 1/2"	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7630'	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.992	TOP - TUBING PERF. - FEET 7506'
GAS PAY ZONE FROM 7382' TO 7546'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 5089
DATE OF FLOW TEST FROM 5/24/68 TO 6/1/68			DATE SHUT-IN PRESSURE MEASURED 12/12/67		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) ---	(b) Flowing Tubing Pressure (DWt) 568	(c) Flowing Meter Pressure (DWt) 516	(d) Flow Chart Static Reading 7.12 507	(e) Meter Error (Item c - Item d) + 9	(f) Friction Loss (a - c) or (b - c) + 52	(g) Average Meter Pressure (Integr.) 519
(h) Corrected Meter Pressure (g - e) 528	(i) Avg. Wellhead Press. $P_t = (h + f)$ 580	(j) Shut-in Casing Pressure (DWt) ---	(k) Shut-in Tubing Pressure (DWt) 2478	(l) P_c = higher value of (j) or (k) 2478	(m) Del. Pressure $P_d =$ 50 % P_c 1239	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1438	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0178	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0089	Corrected Volume Q = 1451 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.309	$(F_c Q_m)^2 (1000)$ 186,112	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 57,509	P_t^2 336,400	$P_w^2 = P_t^2 + R^2$ 393,909	$P_w = \sqrt{P_w^2}$ 628
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_t^2}{P_c^2 - P_w^2} \right]^n =$ 1451	$\left[\frac{4,605,363}{5,746,575} \right]^n =$.8014	$\left[\frac{4,605,363}{5,746,575} \right]^n =$.8470	$=$ 1229 MCF/D
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REMARKS:

SUMMARY

Item h **528** Psia
 P_c **2478** Psia
 Q **1451** MCF/D
 P_w **628** Psia
 P_d **1239** Psia
 D **1229** MCF/D

Company **Jerome P. McHugh**
 By **Thomas A. McHugh**
 Title **Consulting Engineer**
 Witnessed By _____
 Company _____

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