

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 68

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 Price #1		
UNIT LETTER M	SECTION 12	TOWNSHIP 28N	RANGE 8W	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7444	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 7312
GAS PAY ZONE FROM 7189 TO 7407		WELL PRODUCING THRU CASING _____ TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 4958
DATE OF FLOW TEST FROM 3/21/68 TO 3/29/68			DATE SHUT-IN PRESSURE MEASURED 11/14/67		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (Dwt) 682	(b) Flowing Tubing Pressure (Dwt) 497	(c) Flowing Meter Pressure (Dwt) 496	(d) Flow Chart Static Reading $\frac{7.0}{490}$	(e) Meter Error (Item c - Item d) + 6	(f) Friction Loss (a - c) or (b - c) +1	(g) Average Meter Pressure (Integr.) 490
(h) Corrected Meter Pressure (g + e) 496	(i) Avg. Wellhead Press. $P_t = (h + f)$ 497	(j) Shut-in Casing Pressure (Dwt) 2224	(k) Shut-in Tubing Pressure (Dwt) 2222	(l) $P_c =$ higher value of (j) or (k) 2224	(m) Del. Pressure $P_d =$ 50 % P_c 1112	(n) Separator or Dehydrator Pr. (Dwt) for critical flow only -----

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 476	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0122	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0061	Corrected Volume Q = 479 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.303	$(F_c Q_m)^2 (1000)$ 139,074	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 42,139	P_t^2 247,009	$P_w^2 = P_t^2 + R^2$ 289,148	$P_w = \sqrt{P_w^2}$ 538
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 479	$\left[\frac{3,709,632}{4,657,028} \right]^n (0.7966)^n (0.75)$	$=$.8432	$=$ 404 MCF/D
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REMARKS:

This well was first delivered 2/23/68, but, due to mechanical difficulties the well did not go on for initial deliverability until 3/1/68.

SUMMARY

Item h	496	Psia
P_c	2224	Psia
Q	479	MCF/D
P_w	538	Psia
P_d	1112	Psia
D	404	MCF/D

Handwritten initials

Company Jerome P. McHugh
By J. A. [Signature]
Title Agent
Witnessed By _____
Company _____



