

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 #2		
UNIT LETTER M	SECTION 14	TOWNSHIP 28N	RANGE 8W	PURCHASING PIPELINE E.P.N.G. Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES	SET AT DEPTH - FEET 7326'	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 7326'
GAS PAY ZONE FROM 7196' TO 7344'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 4967
DATE OF FLOW TEST FROM 3/13/68 TO 3/21/68			DATE SHUT-IN PRESSURE MEASURED 12/2/67		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 666	(b) Flowing Tubing Pressure (DWt) 491	(c) Flowing Meter Pressure (DWt) 488	(d) Flow Chart Static Reading $\frac{6.9}{476}$	(e) Meter Error (Item c - Item d) + 12	(f) Friction Loss (a - c) or (b - c) + 3	(g) Average Meter Pressure (Integr.) 483
(h) Corrected Meter Pressure (g + e) 495	(i) Avg. Wellhead Press. $P_t = (h + f)$ 498	(j) Shut-in Casing Pressure (DWt) 2167	(k) Shut-in Tubing Pressure (DWt) 2167	(l) P_c = higher value of (j) or (k) 2167	(m) Del. Pressure $P_d = \frac{5}{100} P_c$ 1084	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 230	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0252	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0125	Corrected Volume $Q = \frac{230}{1.0125} = \mathbf{233}$ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.303	$(F_c Q_m)^2 (1000)$ 32,907	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 9,971	P_t^2 248,004	$P_w^2 = P_t^2 + R^2$ 257,975	$P_w = \sqrt{P_w^2}$ 508
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{233}{\left[\frac{3,520,833}{4,437,914} \right]^{.75}} = \frac{233}{.8406} = \mathbf{196}$ MCF/D
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REMARKS:

Well first delivered 2/23/68

SUMMARY

Item h	495	Psia
P_c	2167	Psia
Q	233	MCF/D
P_w	508	Psia
P_d	1084	Psia
D	196	MCF/D

Company **Jerome P. McHugh**By **J. P. McHugh (J.P.)**Title **Consulting Engineer**

Witnessed By _____

Company _____



