

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

Form C122-A
Revised 1-1-66

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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COMPANY Jerome P. McHugh			WELL NAME AND NUMBER Jicarilla #2		
UNIT LETTER L	SECTION 30	TOWNSHIP 26N	RANGE 4W	PURCHASING PIPELINE EPNG Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7589'	TUBING O.D. - INCHES 1.990	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET XXXX 7515
GAS PAY ZONE FROM 7375' TO 7544'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 5095'
DATE OF FLOW TEST FROM 11/16/68 TO 11/24/68			DATE SHUT-IN PRESSURE MEASURED 6/26/68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 727 747	(b) Flowing Tubing Pressure (DWt) 504	(c) Flowing Meter Pressure (DWt) 469	(d) Flow Chart Static Reading 7.6 578	(e) Meter Error (Item c - Item d) -109	(f) Friction Loss (a - c) or (b - c) +35	(g) Average Meter Pressure (Integr.) 574
(h) Corrected Meter Pressure (g + e) 465	(i) Avg. Wellhead Press. $P_t = (h + f)$ 500	(j) Shut-in Casing Pressure (DWt) 2539	(k) Shut-in Tubing Pressure (DWt) 2376	(l) P_c = higher value of (j) or (k) 2539	(m) Del. Pressure $P_d =$ 50 % P_c 1270	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1498	Quotient of $\frac{\text{Item c}}{\text{Item d}}$.8114	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$.9008	Corrected Volume Q = 1349 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.310	$(F_c Q_m)^2 (1000)$ 493,040	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 152,842	P_t^2 250,000	$P_w^2 = P_t^2 + R^2$ 402,842	$P_w = \sqrt{P_w^2}$ 635
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1349	$\left[\frac{4,833,621}{6,043,679} \right]^n (.7998)^n .75 =$.8457	$=$ 1141 MCF/D
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REMARKS:

~~XXX~~ $F_c = 16.46$

SUMMARY

Item h	465	Psia
P_c	2539	Psia
Q	1349	MCF/D
P_w	635	Psia
P_d	1270	Psia
D	1141	MCF/D

Company Jerome P. McHugh
 By *J. A. Dugan*
 Title Agent
 Witnessed By Charles Werner
 Company Northwest Production Corp.



