

Initial
deliverability

NEW MEXICO OIL CONSERVATION COMMISSION **WELL DELIVERABILITY TEST REPORT FOR 1973**

Form C122-A
Revised 1-1-68

POOL NAME Ballard P. C.	POOL SLOPE $n = 0.85$	FORMATION Pictured Cliffs	COUNTY Rio Arriba
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COMPANY Chace Oil Company, Inc.			WELL NAME AND NUMBER Jicarilla No. 71-5		
UNIT LETTER I	SECTION 9	TOWNSHIP 23N	RANGE 4W	PURCHASING PIPELINE E.P.N.G.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.090	SET AT DEPTH - FEET 3005	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 2797
GAS PAY ZONE FROM 2798 TO 2812		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.711	GRAVITY X LENGTH
DATE OF FLOW TEST FROM 2-4-73 TO 2-12-73			DATE SHUT-IN PRESSURE MEASURED 10-31-72		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 108	(b) Flowing Tubing Pressure (DWt) 108	(c) Flowing Meter Pressure (DWt) 108	(d) Flow Chart Static Reading 108	(e) Meter Error (Item c - Item d) -0-	(f) Friction Loss (a-c) or (b-c) -0-	(g) Average Meter Pressure (Integr.) 108
(h) Corrected Meter Pressure (g+e) 108	(i) Avg. Wellhead Press. $P_i = (h+f)$ 108	(j) Shut-in Casing Pressure (DWt) 384	(k) Shut-in Tubing Pressure (DWt) 384	(l) P_c = higher value of (i) or (k) 384	(m) Del. Pressure $P_d = \frac{80}{307} P_c$ 104	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 231	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = \frac{231}{232}$ 232 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$ Use P_t
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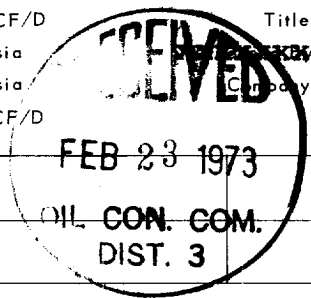
DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{231}{232} \left[\frac{53,207}{135,792} \right]^n = \frac{0.3918}{0.4509} = \frac{104}{105}$ MCF/D
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REMARKS:

SUMMARY

Item h	108	Psia	Company	Chace Oil Company, Inc.
P_c	384	Psia	By	<i>W. Walsh</i>
Q	231	MCF/D	Title	President
P_w	108	Psia	For	Walsh Engineering & Production Corporation
P_d	307	Psia	Company	
D	104	MCF/D		



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