

EXHIBIT NO. 12

COMPANY: Conoco, Inc.

WELL: Jicarilla Apache AXI C No.1

SW/SW, Section 4, Township 23 North, Range 5 West
Rio Arriba County, New MexicoPictured Cliffs Formation Core Data

Pictured Cliffs Perforations 2080-2110

Depth (ft)	Sample Footage (ft)	Horizontal Permeability (md)
2086-2087	1	2.58
2087-2088	1	3.04
2088-2089	1	3.31
2089-2090	1	12.30
2090-2091	1	1.67
2091-2092	1	1.29
2092-2093	1	1.37
2093-2094	1	5.90
2094-2095	1	6.68
2095-2096	1	9.00
2096-2097	1	6.59
2097-2098	1	3.18
2098-2099	1	1.20
2099-2100	1	0.00✓
2100-2101	1	0.00✓
2101-2102	1	0.00✓
2102-2103	1	1.93
2103-2104	1	1.20
2104-2105	1	1.20OK
2105-2106	1	0.00✓
2106-2107	1	0.00✓
2107-2108	1	0.81
2108-2109	1	0.04
2109-2110	1	0.00✓
24		63.29

$$\text{Average laboratory permeability} = \frac{63.29}{24} = \underline{2.64} \text{ md}$$

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63.29

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

Company HUMBLE OIL & REFINING COMPANY Date Report APRIL 25, 1955 Page 1 of 2
 Well NO. 1 JICARILLA "C" Cores DIAMOND File RP-3-162
 Field WILCOAT Formation PICTURED CLIFFS Analysts VER
 County BIO ARriba State NEW MEXICO Elevation 6016' 27 Coregraph YES
 Location SW 1/4 NE 1/4 T23N R5W Remarks SERVICE NO. 8

Perforations 2080-2110

CORE ANALYSIS RESULTS
 (Figures in parentheses refer to footnote remarks)

PRELIMINARY REPORT

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY TO AIR	POROSITY PER CENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
				OIL % VOLUME	TOTAL WATER % PORE		
1	2086.5	2.58	23.5	0.0	54.5	GAS	
2	87.5	3.04	25.5	0.0	54.2	GAS	
3	88.5	3.11	24.6	0.0	45.2	GAS	
4	89.5	12.30	28.4	0.0	41.3	GAS	
5	90.5	1.67	19.9	0.0	43.2	GAS	
6	91.5	1.29	20.5	0.0	48.6	GAS	
7	92.5	1.37	22.2	0.0	53.2	GAS	
8	93.5	5.90	27.9	0.0	45.2	GAS	VF
9	94.5	6.68	23.4	0.0	43.6	GAS	
10	95.5	9.00	27.1	0.0	39.5	GAS	
11	96.5	6.59	26.0	0.0	41.3	GAS	VF
12	97.5	3.18	25.8	0.0	51.6	GAS	
13	98.5	1.20	17.1	0.0	58.5	GAS	
14	99.5	0.0	13.3	0.0	78.2		
15	2100.5	0.0	12.0	0.0	83.4		
16	01.5	0.0	13.5	0.0	74.2		
17	02.5	1.93	23.2	0.0	67.3	GAS	
18	03.5	1.20	23.5	0.0	62.1	GAS	
19	04.5	1.20	23.3	0.0	54.5	GAS	
20	05.5	0.0	15.9	0.0	74.9		
21	06.5	0.0	21.6	0.0	69.0		
22	07.5	0.81	21.3	0.0	57.7	GAS	
23	08.5	0.04	22.4	0.0	72.0		
24	09.5	0.0	14.9	0.0	64.4		
25	10.5	0.0	22.7	0.0	72.4		
26	11.5	0.0	26.7	0.0	66.6		
27	12.5	0.0	20.8	0.0	75.0		
28	13.5	0.0	21.8	0.0	73.9		
29	14.5	0.0	12.1	0.0	84.3		
30	15.5	0.0	18.9	0.0	67.8		
31	16.5	0.0	19.3	0.0	72.6		
32	2117.5	0.0	22.9	0.0	63.4		

NOTE:

(*) REFER TO ATTACHED LETTER.

(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.

(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESULTS.

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

Company MINERAL OIL & REFINING COMPANY Date Report APRIL 25, 1955 Page 2 of 2
 Well NO. 1 JICARILLA NCH Cores _____ File _____
 Field _____ Formation _____ Analysts _____
 County _____ State _____ Elevation _____ Coregraph _____
 Location _____ Remarks _____

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
				OIL % VOLUME	TOTAL WATER % PORE		
33	2118.5	0.0	24.6	0.0	61.6		
34	19.5	0.0	17.2	0.0	82.4		
35	20.5	0.0	17.9	0.0	61.3		
36	21.5	0.0	13.8	0.0	75.3		
37	22.5	0.81	23.9	0.0	60.7	GAS	
38	23.5	0.47	25.4	0.0	59.5	GAS	
39	24.5	1.63	23.9	0.0	47.6	GAS	
40	25.5	1.03	27.5	0.0	54.9	GAS	
41	26.5	0.81	26.6	0.0	53.3	GAS	
42	27.5	0.0	18.9	0.0	63.8		
43	28.5	0.0	21.1	0.0	72.1		
44	29.5	0.0	18.2	0.0	83.1		
45	30.5	0.0	18.2	0.0	86.9		
46	31.5	0.0	22.4	0.0	71.0		
47	32.5	0.0	23.3	0.0	67.1		
48	33.5	0.0	20.3	0.0	75.9		
49	34.5	0.0	22.5	0.0	65.9		
50	35.5	0.0	20.5	0.0	75.1		
51	36.5	0.0	14.8	0.0	73.8		
52	2137.5	0.0	11.0	0.0	89.1		

VF- VERTICAL FRACTURE

Those feet noted gas productive are low capacity gas productive.

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