

EXHIBIT NO. 14

COMPANY: Humble Oil and Refining Company
WELL: Jicarilla D #1

NW/NW, Section 17, Township 24 North, Range 4 West
Rio Arriba County, New Mexico

Pictured Cliffs Formation Core Data

Well not completed in Pictured Cliffs
Interval chosen - 2653-2724

Depth (ft)	Sample Footage (ft)	Horizontal Permeability (md)
2653-2654	1	0.00
2654-2655	1	0.00
2655-2656	1	0.00
2656-2657	1	0.00
2657-2658	1	0.00
2658-2659	1	0.00
2659-2660	1	0.00
2660-2661	1	0.00
2661-2662	1	0.00
2662-2663	1	0.00
2663-2664	1	0.00
2664-2665	1	0.00
2665-2666	1	0.00
2667-2668	1	0.00
2668-2669	1	0.00
2669-2670	1	0.00
2670-2671	1	0.00
2671-2672	1	0.00
2672-2673	1	0.00
2673-2674	1	0.00
2674-2675	1	0.00
2675-2676	1	0.00
2676-2677	1	0.00
2677-2678	1	0.00
2678-2679	1	0.00
2679-2680	1	0.00
2680-2681	1	0.00
2684-2685	1	0.00
2685-2686	1	0.00
2686-2687	1	0.00
2687-2688	1	0.00
2688-2689	1	0.00
2689-2690	1	0.00
2690-2691	1	0.00
2691-2692	1	0.00
2692-2693	1	0.00
2693-2694	1	0.00
2694-2695	1	0.00
2695-2696	1	0.00
2696-2697	1	0.00
2697-2698	1	0.00
2698-2699	1	0.00
2699-2700	1	0.00

EXHIBIT NO. 14
(continued)

Depth (ft)	Sample Footage (ft)	Horizontal Permeability (md)
2700-2701	1	0.00
2701-2702	1	0.00
2702-2703	1	0.00
2703-2704	1	0.00
2704-2705	1	0.04
2705-2706	1	0.21
2706-2707	1	0.00
2707-2708	1	0.00
2708-2709	1	0.00
2709-2710	1	0.00
2710-2711	1	0.00
2716-2717	1	0.00
2717-2718	1	0.00
2718-2719	1	0.00
2719-2720	1	0.00
2722-2723	1	0.00
2723-2724	1	0.00
	60	0.25

Average laboratory permeability = $\frac{0.25}{60}$ = 0.00 md

or $\frac{0.25}{2}$

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering
DALLAS, TEXAS

Company HUMBLE OIL & REFINING COMPANY Formation PICTURED CLIFFS Page 1 of 2
 Well JICARILLA "D" NO. 1 Cores _____ File RP-3-173
 Field WILDCAT Drilling Fluid _____ Date Report 6-14-55
 County RIO ARriba State NEW MEXICO Elevation _____ Analysts WER
 Location SW NE NE Sec. 17-24N-4W Remarks SERVICE NO. 8

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

P.C. @ 2652'

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS AIR	POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
				OIL % VOLUME	TOTAL WATER % PORE		
1	2653.5	0.0	1.1			(2)	SS, gray, f.g., silty
2	2654.5	0.0	2.2			(2)	SS, gray, f.g., silty
3	2655.5	0.0	1.2			(2)	SS, gray, very f.g., silty
4	2656.5	0.0	0.9			(2)	SS, gray, very f.g., silty
5	2657.5	0.0	1.6			(2)	SS, gray, very f.g., silty
6	2658.5	0.0	2.0			(2)	SS, gray, coaly
7	2659.5	0.0	1.6			(2)	SS, gray, very f.g.
8	2660.5	0.0	2.1			(2)	SS, gray, very f.g.
9	2661.5	0.0	2.5			(2)	SS, gray, very f.g.
10	2662.5	0.0	2.8			(2)	SS, gray, coaly
11	2663.5	0.0	3.0			(2)	SS, gray, very f.g.
12	2664.5	0.0	2.5			(2)	SS, gray, very f.g.
13	2665.5	0.0	3.8			(2)	SS, gray, very f.g.
14	2667.5	0.0	0.9			(2)	SS, gray, very f.g.
15	2668.5	0.0	1.1			(2)	SS, gray, very f.g.
16	2669.5	0.0	1.1			(2)	SS, gray, very f.g.
17	2670.5	0.0	1.1			(2)	SS, gray, very f.g.
18	2671.5	0.0	1.6			(2)	SS, gray, very f.g.
19	2672.5	0.0	3.6			(2)	SS, gray, very f.g.
20	2673.5	0.0	2.9			(2)	SS, gray, very f.g.
21	2674.5	0.0	1.8			(2)	SS, gray, very f.g.
22	2675.5	0.0	3.2			(2)	SS, gray, very f.g.
23	2676.5	0.0	3.8			(2)	SS, gray, very f.g.
24	2677.5	0.0	4.7			(2)	SS, gray, very f.g.
25	2678.5	0.0	3.9			(2)	SS, gray, very f.g.
26	2679.5	0.0	5.0			(2)	SS, gray, very f.g.
27	2680.5	0.0	4.5			(2)	SS, gray, very f.g.
28	2684.5	0.0	3.7			(2)	SS, gray, very f.g.
29	2685.5	0.0	4.6			(2)	SS, gray, very f.g.
30	2686.5	0.0	4.0			(2)	SS, gray, very f.g.

- CONTINUED -

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 HUMBLE OIL & REFINING COMPANY Formation PICTURED CLIFFS Page 2 of 2
 Well JICARILLA "D" NO. 1 Cores _____ File RP-3-173
 Field WILDCAT Drilling Fluid _____ Date Report 6-14-55
 County RIO ARriba State NEW MEXICO Elevation _____ Analysts WER
 Location SW NE NE Sec. 17-24N-4W Remarks SERVICE NO. 8

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS AIR	POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
				OIL % VOLUME	% PORE	TOTAL WATER % PORE	
31	2687.5	0.0	2.4			(2)	SS, very f.g., gray
32	2688.5	0.0	6.3			(2)	SS, very f.g., gray
33	2689.5	0.0	4.0			(2)	SS, very f.g., gray
34	2690.5	0.0	3.8			(2)	SS, very f.g., gray
35	2691.5	0.0	4.8			(2)	SS, very f.g., gray
36	2692.5	0.0	3.4			(2)	SS, very f.g., gray
37	2693.5	0.0	4.6			(2)	SS, very f.g., gray
38	2694.5	0.0	5.0			(2)	SS, very f.g., gray
39	2695.5	0.0	3.6			(2)	SS, very f.g., gray
40	2696.5	0.0	3.3			(2)	SS, very f.g., gray
41	2697.5	0.0	3.9			(2)	SS, very f.g., gray
42	2698.5	0.0	4.1			(2)	SS, very f.g., gray
43	2699.5	0.0	1.5			(2)	SS, very f.g., gray
44	2700.5	0.0	5.5			(2)	SS, very f.g., gray
45	2701.5	0.0	5.2			(2)	SS, very f.g., gray
46	2702.5	0.0	5.4			(2)	SS, very f.g., gray
47	2703.5	0.0	4.6			(2)	SS, very f.g., gray
48	2704.5	.04	6.1			(2)	SS, very f.g., gray
49	2705.5	.21	7.3			(2)	SS, very f.g., gray
50	2706.5	0.0	5.7			(2)	SS, very f.g., gray
51	2707.5	0.0	3.0			(2)	SS, very f.g., gray
52	2708.5	0.0	4.3			(2)	SS, very f.g., gray
53	2709.5	0.0	4.4			(2)	SS, very f.g., gray
54	2710.5	0.0	4.8			(2)	SS, very f.g., gray
55	2716.5	0.0	4.9			(2)	SS, very f.g., gray
56	2717.5	0.0	4.7			(2)	SS, very f.g., gray
57	2718.5	0.0	3.3			(2)	SS, very f.g., gray
58	2719.5	0.0	2.5			(2)	SS, very f.g., gray
59	2722.5	0.0	3.7			(2)	SS, very f.g., gray
60	2723.5	0.0	2.1			(2)	SS, very f.g., gray

SS - SANDSTONE

f.g. - fine grain

NOTE:

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