

EXHIBIT NO. 11

COMPANY: Amerada Petroleum Corporation
WELL: Jicarilla F No. 5

NW/SE, Section 16, Township 25 North, Range 5 West
Rio Arriba County, New Mexico

Pictured Cliffs Formation Core Data

Pictured Cliffs Perforations at 2906-2948

Depths (ft)	Sample Footage (ft)	Horizontal Permeability (md)
2907-2908	1	0.07
2908-2909	1	0.09
2909-2910	1	0.01
2910-2911	1	0.01
2911-2912	1	0.02
2912-2913	1	0.06
2913-2914	1	0.02
2914-2915	1	0.04
2915-2916	1	0.05
2916-2917	1	0.02
2917-2918	1	0.02
2918-2919	1	0.21
2919-2920	1	0.13
2920-2921	1	0.05
2921-2922	1	0.03
2922-2923	1	0.02
2923-2924	1	0.01
2924-2925	1	0.02
2925-2926	1	0.02
2926-2927	1	0.01
2927-2928	1	0.06
2928-2929	1	0.07
2929-2930	1	0.28
2930-2931	1	0.01
2931-2932	1	0.08
2932-2933	1	<0.01
2933-2934	1	<0.01
2934-2935	1	0.01
2935-2936	1	0.04
2936-2937	1	0.05
2937-2938	1	0.03
2938-2939	1	0.06
2939-2940	1	0.01
2940-2941	1	0.01
2941-2942	1	0.05
2942-2943	1	0.05
2943-2944	1	0.03
2944-2945	1	0.04
2945-2946	1	0.03
2946-2947	1	0.02
2947-2948	1	0.02
	<u>41</u>	<u>1.88</u>

$$\text{Average Laboratory permeability} = \frac{1.88}{41} = \underline{0.05} \text{ md}$$

AMERADA PETROLEUM CORPORATION

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JUTH 25, 1957

T25N R5W Sec 16.

J. APACHE "F"⁵ - ANALYSIS - CORE NO. 1 FROM 2907 TO 2958 FT.

 PERF 2906-48

DEPTH	PERMEABILITY	POROSITY	OIL SATURATION	WATER SATURATION
2907-2908 FT	0.07	14.5	1.4	49.7
09 FT	.09	13.6	0	55.6
10 FT	.01	8.8	0	75.0
11 FT	.01	8.2	0	77.0
12 FT	.02	9.6	0	75.0
13 FT	.06	12.3	0	73.0
14 FT	.02	14.0	1.4	49.3
15 FT	.04	12.6	0	77.7
16 FT	.05	15.0	0	58.8
17 FT	.02	10.1	0	70.3
18 FT	.02	7.9	0	74.8
19 FT	.21	8.8	0	75.1
20 FT	.13	11.4	0	79.0
21 FT	.05	12.1	0	74.3
22 FT	.03	12.4	0	72.5
23 FT	.02	11.5	0	71.3
24 FT	.01	9.5	0	80.0
25 FT	.02	12.4	0	75.7
26 FT	.02	11.0	0	75.3
27 FT	.01	11.3	0	76.1
28 FT	.06	16.9	0	44.9
29 FT	.07	15.0	0	51.3
30 FT	.28	15.7	0	55.4
31 FT	.01	16.9	0	53.3
32 FT	.08	15.9	0	53.4
33 FT	LESS .01	10.9	0	80.6
34 FT	LESS .01	9.3	0	85.0
35 FT	.01	8.3	0	78.4
36 FT	.04	8.9	0	30.4
37 FT	.05	16.3	0	52.3
38 FT	.03	12.8	0	64.9
39 FT	.06	16.2	0	56.6
40 FT	.01	9.2	0	89.0
41 FT	.01	10.3	0	83.5
42 FT	.05	13.5	0	56.3
43 FT	.05	17.9	0	49.7
44 FT	.03	16.0	0	57.5
45 FT	.04	17.3	0	57.4
46 FT	.03	15.4	0	53.9
47 FT	.02	9.5	0	84.3
48 FT	.02	13.3	0	75.2

CONTINUED
 MON 1 7-25-57

VVCORE NO. 1 FROM 2907 TO 2958 FT - CONTINUED

DEPTH	PERMEABILITY	POROSITY	OIL SATURATION	WATER SATURATION
2907-2949 FT	.03	14.4	0	71.0
50 FT	.08	14.7	0	73.6
51 FT	.05	16.5	0	69.9
52 FT	.04	14.3	0	79.9
53 FT	.05	15.7	0	72.6
54 FT	.04	13.4	0	83.6
55 FT	.02	14.1	0	78.0
56 FT	.03	13.4	0	83.7
57 FT	.05	13.6	0	83.8
58 FT	.07	17.2	0	55.7

NOTE - POROSITY FAIR, 12.7 PCT, AVERAGE PERMEABILITY LOW 0.05 MILLI-DARCYS PER FT. AVERAGE SATURATION RESIDUAL OIL 0.05, AVERAGE AND TOTAL WATER 68.3. THIS INTERVAL TO HAVE NO COMMERCIAL VALUE, THE ERRATIC NATURE OF WATER SATURATION ASSOCIATED WITH HIGH POROSITY SEEMS TO INDICATE THAT SOME GAS IS PRESENT, BUT IT IS DOUBTFUL THAT A SUCCESSFUL COMPLETION CAN BE MADE FROM THIS INTERVAL. CORE ANALYSIS FROM 2927 TO 2946 FT SHOWS ASSOCIATION OF LOW TOTAL WATER SATURATION WITH HIGH POROSITY. FORMATION TREATMENT WOULD BE NECESSARY TO INCREASE PERMEABILITY.

MON 2 7-25-57
END - PLS ACK
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