

EXHIBIT NO. 8

COMPANY: Amoco Production Company
Well: Jicarilla 358 No. 6

SW/NE, Section 6, Township 22 North, Range 2 West
Sandoval County, New Mexico

Pictured Cliffs Formation Core Data

Pictured Cliffs perforated interval 2833-39, 2855-61

Depth (ft)	Sample Footage (ft)	Horizontal Permeability (md)
2833-2834	1	2.30
2834-2835	1	1.20
2835-2836	1	0.45
2836-2837	1	0.75
2837-2838	1	4.10
2838-2839	1	1.00
2855-2856	1	4.50
2856-2857	1	1.00
2857-2858	1	12.00
2858-2859	1	0.71
2859-2860	1	0.70
2860-2861	1	0.84
	<u>12</u>	<u>29.55</u>

$$\text{Average Laboratory permeability} = \frac{29.55}{12} = \underline{2.46} \text{ md}$$

CORE ANALYSIS RESULTS

Company AMOCO PRODUCTION COMPANY Formation FRUITLAND File RP-3-2588
Well JICARILLA TRIBAL 358 NO. 6 Core Type DIAMOND 4" Date Report 6-10-73
Field BALLARD PICTURED CLIFFS Drilling Fluid WATER BASE MUD Analysts RG
County SANDOVAL State NEW MEX. Elev. 7357' KB Location 1830' FNL 1490' FEL SEC 6-T22N-R2W
(EST.)

Lithological Abbreviations

SAND-SO SHALE-SH LIME-LM DOLOMITE-DOL CHERT-CH GYPSUM-GYP ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS SANDY-SBY SHALY-SHY LIMY-LMY FINE-FN MEDIUM-MED COARSE-CSE CRYSTALLINE-XLN GRAIN-GRN GRANULAR-GRNL BROWN-BRN GRAY-GY VUGGY-VGY FRACTURED-FRAC LAMINATION-LAM STYLOLITIC-STY SLIGHTLY-VERY-V/ WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS HOR. (K _A) VERT.	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	

(CONVENTIONAL ANALYSIS)

1	2696-97	1.24	0.83	12.5	0.0	71.2	Sd Gy Fn Grn Clay
2	97-98	*	56	9.9	0.0	77.8	Sd Gy-Wh Med Grn V/Clay
3	98-99	4.2	2.1	12.3	0.0	78.1	Sd Gy-Wh Med Grn V/Clay
4	2699-00	2.5	1.7	8.6	0.0	66.3	Sd Wh Fn Grn V/Clay
5	2700-01	2.1	1.2	12.3	0.8	73.8	Sd Wh Fn Grn V/Clay
6	01-02	2.3	1.5	11.0	0.9	89.0	Sd Wh Fn Grn V/Clay
7	02-03	0.62	0.41	13.7	0.0	73.9	Sd Wh Fn Grn V/Clay
8	03-04	0.83	0.41	11.2	0.0	81.1	Sd Gy-Wh Fn Grn V/Clay
9	04-05	6.6	4.5	15.1	0.7	67.0	Sd Gy Med Grn V/Clay
10	05-06	4.1	3.3	13.1	0.0	69.3	Sd Wh Med Grn V/Clay
11	06-07	5.0	2.2	11.2	0.0	77.6	Sd Wh Fn Grn V/Clay
12	07-08	1.9	1.5	15.7	0.0	63.8	Sd Wh Fn Grn V/Clay
13	08-09	6.6	4.8	14.9	0.0	70.5	Sd Wh Med Grn V/Clay
14	09-10	3.9	3.3	14.2	0.0	59.9	Sd Wh Med Grn V/Clay
15	10-11	150	85	15.7	0.0	66.3	Sd Wh Med Grn V/Clay
16	11-12	6.6	8.2	16.8	0.0	68.6	Sd Wh Med Grn V/Clay
17	12-13	27	*	15.4	0.0	63.6	Sd Wh Med Grn V/Clay
18	13-14	*	*	15.9	0.0	65.4	Sd Wh Med Grn V/Clay
19	14-15	60	42	13.6	0.0	65.5	Sd Wh Med Grn V/Clay
20	15-16	2.5	1.2	12.8	0.0	66.5	Sd Wh Med Grn V/Clay
21	16-17	1.0	0.41	14.7	0.0	52.2	Sd Wh Fn Grn V/Clay
22	17-18	1.0	0.20	14.8	0.0	52.7	Sd Wh Fn Grn V/Clay
23	18-19	0.10	0.10	10.2	0.0	72.5	Sd Wh Fn Grn V/Clay
24	19-20	0.05	0.05	8.3	1.2	80.7	Sd Wh Fn Grn V/Clay
25	20-21	2.7	0.62	15.6	0.0	44.1	Sd Wh Fn Grn V/Clay
26	21-22	32	21	18.2	0.0	25.8	Sd Wh Med Grn V/Clay
27	22-23	4.1	3.3	15.2	0.0	36.2	Sd Wh Med Grn V/Clay
28	23-24	3.9	2.5	18.3	0.0	19.7	Sd Wh Med Grn Clay
29	24-25	55	48	21.0	0.0	35.3	Sd Wh Med Grn Clay
30	25-26	27	19	21.1	0.0	36.0	Sd Wh Med Grn Clay
31	26-27	220	205	20.3	0.0	29.6	Sd Wh Med Grn Clay
32	27-28	18	17	18.4	0.0	33.7	Sd Wh Med Grn Clay
33	28-29	53	22	8.4	0.0	85.6	Sd Gy Med Grn V/Clay

* Unsuitable for permeability measurement

Service No. 5-A

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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY HOR. VERT.	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS			

(KA)

(CONVENTIONAL ANALYSIS)

34	2830-31	0.07	0.06	13.0	0.8	53.1	Sd Drk Gy Fn Grn Clay	
35	31-32	0.29	0.18	12.6	0.0	58.7	Sd Tan & Gy Fn-Med Grn Clay	
36	32-33	1.9	1.0	11.1	0.0	65.6	Sd Tan & Gy Fn-Med Grn Clay	
37	33-34	2.3	0.62	15.1	0.0	62.8	Sd Tan & Gy Fn-Med Grn Clay	
38	34-35	1.2	0.41	15.0	0.0	65.3	Sd Tan & Gy Fn-Med Grn Clay	
39	35-36	0.45	0.41	12.2	0.0	77.0	Sd Gy Fn Grn S&P Clay	
40	36-37	0.75	0.44	12.2	0.0	82.0	Sd Gy Fn Grn S&P Clay	
41	37-38	4.1	4.3	13.1	0.0	81.6	Sd Gy Fn Grn S&P Clay	
42	38-39	1.0	0.45	12.3	0.0	77.1	Sd Gy Fn Grn S&P Clay	
43	39-40	0.83	0.41	13.8	0.0	76.1	Sd Gy Fn Grn S&P Clay	
44	40-41	0.47	0.13	11.0	0.0	80.9	Sd Gy Fn Grn S&P Clay	
45	41-42	1.2	0.35	10.5	0.9	89.5	Sd Gy Fn Grn S&P Clay	Shy
46	42-43	0.73	0.12	11.2	0.0	78.3	Sd Gy Fn Grn S&P Clay	
47	43-44	0.93	0.80	11.3	0.0	81.4	Sd Gy Fn Grn S&P Clay	
48	44-45	0.50	0.18	10.8	0.0	85.1	Sd Gy Fn Grn S&P Clay	
49	45-46	0.21	0.19	12.6	0.0	81.0	Sd Gy Fn Grn S&P Clay	
50	46-47	0.98	0.26	11.2	0.0	84.8	Sd Gy Fn Grn S&P Clay	
51	47-48	1.6	0.84	16.2	0.0	75.4	Sd Gy Fn Grn S&P Clay	
52	48-49	0.51	0.37	12.8	0.0	71.8	Sd Gy Fn Grn S&P Clay	
53	49-50	6.0	4.1	17.7	0.0	72.9	Sd Gy Fn Grn S&P Clay	
54	50-51	3.1	0.41	17.0	0.0	74.1	Sd Gy Fn Grn S&P Clay	
55	51-52	2.1	1.5	14.9	0.0	75.9	Sd Gy Fn Grn S&P Clay	
56	52-53	0.73	0.07	8.0	0.0	87.6	Sd Gy Fn Grn S&P Clay	
57	53-54	0.02	0.01	6.5	0.0	84.5	Sd Gy Fn Grn S&P Clay	
58	54-55	0.19	0.04	6.3	0.0	88.9	Sd Gy Fn Grn S&P Clay	
59	55-56	4.5	0.41	15.5	0.0	52.9	Sd Gy Fn Grn S&P Clay	
60	56-57	1.0	0.22	7.1	0.0	83.1	Sd Gy Fn Grn S&P Clay	
61	57-58	12	4.3	17.2	0.0	48.7	Sd Gy Fn Grn S&P Clay	
62	58-59	0.71	0.50	9.7	0.0	83.5	Sd Gy Fn Grn S&P Clay	
63	59-60	0.70	0.47	13.9	0.0	69.0	Sd Gy Fn Grn S&P Clay	
64	60-61	0.84	0.47	11.1	0.0	90.1	Sd Gy Fn Grn S&P Clay	
65	61-62	0.62	0.37	13.3	0.0	86.6	Sd Gy Fn Grn S&P Clay	
66	62-63	2.9	0.41	13.7	0.0	88.4	Sd Gy Fn Grn S&P Clay	
67	2865-66	2.7	1.2	14.2	0.0	93.0	Sd Gy Fn Grn S&P Clay	
68	2872-73	1.5	0.73	14.6	0.0	87.1	Sd Gy Fn Grn S&P Clay	

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