ANADARKO PETROLEUM
FLOWER A–1
STEVENS COUNTY, KANSAS

CORE ANALYSIS

RESERVOIRS
INC.

RESERVOIRS, INC.

CONVENTIONAL AND SPECIAL CORE ANALYSIS
GAS & LIQUID ANALYSIS • OIL FINGERPRINTING
GEOLOGICAL ANSLYSIS • CLASTICS/CARBONATES
SINGLE WELL/FIELD/REGIONAL STUDIES
WELL COMPLETION/STIMULATION STUDIES
ENVIRONMENTAL SERVICES

2057 COMMERCE DRIVE MIDLAND, TEXAS 79703 (915) 699-2468 FAX: (915) 699-2464

January 16, 1995

ANADARKO PETROLEUM
17001 Northchase Drive
Houston, Texas 77060

Attn: Mr. Todd Montgomery

Re: Flower A-1
Stevens County, Kansas

Dear Mr. Montgomery:

Our data for the above referenced well is on the following pages in tabular and graphical form for correlation convenience.

We will retain our data and results in our files for future reference. We hope these results will be useful in your evaluation. If you have any questions regarding our data or procedures, please do not hesitate to contact us.

We appreciate the opportunity of serving your core analysis needs and look forward to working with you and Anadarko Petroleum again.

Thank you.

Sincerely,

David K. Floyd
Core Analysis Manager
Geologist

PROCEDURES

Re: Flower A–1
Stevens County, Kansas

* The core was transported to Reservoirs, Inc. in Midland, Texas from the wellsite.

* A surface Gamma Ray Log of the core was recorded for downhole correlation.

* Redbed samples were trimmed using oil as the coolant.

* Horizontal and Vertical Permeability to air was measured using a Hassler Sleeve Permeameter on the redbed samples prior to extraction.

* Salts were removed with a Methanol Extraction process prior to the analysis.

* Porosities were determined using Boyle's Law Principle.

* Horizontal and Vertical Permeability to air was measured using the Hassler Sleeve Permeameter on all samples after the Methanol Extraction process.

* The Core has been shipped to Reservoirs, Inc. – Houston.

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
1	2441	2442	0.17	0.10	<0.01	1.0	2.94	94.3	0.0	ANHY SL–MOD SHLY DNS
2	2442	2443	0.04	0.04	<0.01	0.6	2.95	86.6	0.0	ANHY SL–MOD SHLY DNS
3	2443	2444	0.03	0.03	<0.01	10.1	2.81	97.2	0.0	DOL MOD SLTY SL ANHY TR FOS SCT–TR PPP
4	2444	2445	7.90	PLUG	N/A	10.4	2.72	95.4	0.0	DOL SLTY SL SHLY SLTY LAM SCT PPP
5	2445	2446	0.05	0.03	<0.01	0.6	2.94	66.8	0.0	ANHY SL–MOD SLTY SL SHLY DNS
6	2446	2447	0.03	0.03	<0.01	1.0	2.93	78.5	0.0	ANHY SL–MOD SLTY SL SHLY DNS
7	2447	2448	0.02	0.02	<0.01	1.4	2.90	68.9	0.0	ANHY SL–MOD SLTY SL SHLY DNS
8	2448	2449	8.41	0.06	<0.01	4.6	2.84	95.6	0.0	DOL SL–MOD SLTY ANHY INCL FRAC TR PPP
9	2449	2450	1.61	Kplug	0.02	11.5	2.80	94.3	0.0	SS VFGR SLTY SHLY SL ANHY/DOL FRAC INTGR POR
10	2450	2451	TBFA	TBFA	0.02	13.6	2.75	92.8	0.0	SS VFGR SLTY SH PTG TR ANHY INTGR POR
11	2451	2452	TBFA	TBFA	0.02	11.8	2.78	97.8	0.0	SS VFGR SLTY SH PTG TR ANHY INTGR POR
12	2452	2453	20.35	6.11	0.06	13.2	2.79	96.6	0.0	SS VFGR SLTY SL SHLY FRAC INTGR POR
13	2453	2454	0.06	0.06	0.02	7.5	2.83	48.3	0.0	SS VFGR SLTY LG ANHY INCL SH PTG TR INTGR POR
14	2454	2455	0.02	Kplug	0.02	7.7	2.81	96.3	0.0	SS VFGR SLTY LG ANHY INCL SH PTG TR INTGR POR
15	2455	2456	TBFA	TBFA	0.23	11.9	2.76	91.6	0.0	SH GY–GYBLK MOD SLTY SL SDY FRAC
16	2456	2457	0.10	0.09	0.06	9.4	2.85	48.6	0.0	DOL SL SLTY SL ANHY TR FOS TR–SCT PPP
17	2457	2458	0.08	0.05	0.02	7.4	2.84	68.6	0.0	DOL SL SLTY ANHY INCL SL SDY TR PPP
18	2458	2459	0.15	0.08	0.02	5.5	2.87	71.0	0.0	DOL SL SLTY LG ANHY INCL TR SH TR PPP
19	2459	2460	0.15	0.10	0.10	7.4	2.87	56.9	0.0	DOL SL SLTY LG ANHY INCL TR SH TR PPP
20	2460	2461	0.46	0.34	0.55	10.1	2.82	69.7	0.0	SS VFGR SL DOL LG ANHY INCL INTGR POR
21	2461	2462	6.05	2.12	0.56	15.9	2.71	75.4	0.0	SS VFGR SL DOL ANHY INCL INTGR POR
22	2462	2463	0.16	PLUG	N/A	15.9	2.75	90.7	0.0	SS VFGR SLTY SL ANHY DOL FRAC INTGR POR
23	2463	2464	5.61	4.31	0.04	12.3	2.80	84.3	0.0	DOL MOD SLTY SL SDY SL ANHY SCT PPP
24	2464	2465	1.86	Kplug	4.42	14.6	2.72	96.4	0.0	SS VFGR SL–MOD SLTY INTGR POR
25	2465	2466	12.967	0.097	15.295	9.9	2.74	87.4	0.0	SH RDBRN–GYBRN SL SLTY FRAC
26	2466	2467	0.079	PLUG	N/A	14.5	2.73	91.5	0.0	RDBD SLTY MOD SDY NON CALC
27	2467	2468	0.264	0.089	0.104	7.5	2.81	92.2	0.0	RDBD SLTY MOD SDY NON CALC
28	2468	2469	TBFA	Kplug	TBFA	6.1	2.82	91.3	0.0	RDBD SLTY MOD SDY NON CALC
29	2469	2470	TBFA	Kplug	TBFA	2.8	2.77	93.8	0.0	SS VFGR SLTY SH PTG FRAC INTGR POR
30	2470	2471	0.48	0.43	0.52	11.0	2.81	31.5	0.0	DOL SL SLTY TR ANHY SCT PPP
31	2471	2472	0.53	0.50	0.25	8.1	2.83	21.8	0.0	DOL SL SLTY TR ANHY SCT PPP
32	2472	2473	1.69	1.56	0.21	11.2	2.79	23.7	0.0	DOL SL SLTY SLTY LAM TR ANHY SCT PPP
33	2473	2474	2.08	1.51	0.71	11.1	2.80	23.5	0.0	DOL SL SLTY SLTY LAM TR ANHY SCT PPP

RESERVOIRS Inc.

ANADARKO PETROLEUM

Well: FLOWER A-1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
34	2474	2475	0.97	0.97	0.12	13.0	2.80	24.7	0.0	DOL SL SLTY SLTY LAM TR ANHY SCT PPP
35	2475	2476	2.74	2.54	1.51	13.0	2.80	21.0	0.0	DOL SL SLTY SLTY LAM TR ANHY SCT PPP
36	2476	2477	1.82	1.68	0.12	12.1	2.75	43.0	0.0	SS VFGR SLTY SL ANHY INTGR POR
37	2477	2478	TBFA	Kplug	0.48	9.3	2.74	96.3	0.0	SS VFGR SLTY SL ANHY SHLY INTGR POR
38	2478	2479	15.80	6.47	0.36	15.4	2.69	93.2	0.0	SS VFGR SLTY SL ANHY INTGR POR
39	2479	2480	TBFA	Kplug	0.12	12.3	2.70	97.8	0.0	SS VFGR SLTY SL ANHY INTGR POR
40	2480	2481	0.44	0.39	0.08	14.0	2.75	54.3	0.0	SS VFGR SLTY SLTY LAM INTGR POR
41	2481	2482	3.79	3.68	2.02	16.4	2.75	47.5	0.0	SS VFGR SLTY SLTY LAM INTGR POR
42	2482	2483	6.70	6.44	0.26	19.6	2.69	69.4	0.0	SS VFGR SLTY SLTY LAM INTGR POR
43	2483	2484	0.92	0.36	0.17	6.9	2.83	66.9	0.0	SS VFGR SLTY LG ANHY INCL TR INTGR POR
44	2484	2485	79.72	64.59	78.30	24.9	2.69	55.9	0.0	SS VFGR SL-MOD SLTY INTGR POR
45	2485	2486	36.09	35.65	8.74	21.0	2.72	47.6	0.0	SS VFGR SL-MOD SLTY INTGR POR
46	2486	2487	16.54	14.72	7.21	20.7	2.73	48.8	0.0	SS VFGR SL-MOD SLTY INTGR POR
47	2487	2488	0.05	Kplug	0.02	12.2	2.73	96.0	0.0	SH LTGY-GY SLTY SDY FRAC
			CORE # 1	2441 - 2488	HOLLENBERG / HERRINGTON					
48	2488	2489	TBFA	Kplug	TBFA	6.1	2.80	98.0	0.0	SH LTGY-GY SLTY SDY FRAC
49	2489	2490	TBFA	Kplug	TBFA	12.0	2.82	92.8	0.0	DOL MOD SLTY SHLY FRAC TR PPP
50	2490	2491	24.07	0.10	0.07	12.4	2.83	81.9	0.0	DOL SLTY SL SDY SLTY LAM SCT PPP
51	2491	2492	0.77	0.30	0.13	9.8	2.81	53.8	0.0	SS VFGR SLTY LG ANHY INCL TR INTGR POR
52	2492	2493	0.07	0.07	<0.01	8.8	2.80	87.1	0.0	SS VFGR SLTY LG ANHY INCL TR INTGR POR
53	2493	2494	0.17	0.14	0.01	8.3	2.80	69.8	0.0	SS VFGR SLTY LG ANHY INCL TR INTGR POR
54	2494	2495	0.12	0.10	0.01	10.0	2.76	70.6	0.0	SS VFGR SLTY ANHY INCL INTGR POR
55	2495	2496	0.05	0.05	0.02	9.8	2.79	68.0	0.0	SS VFGR SLTY ANHY INCL INTGR POR
56	2496	2497	0.38	0.36	0.09	12.7	2.84	46.4	0.0	DOL MOD SLTY ANHY INCL SLTY LAM SCT PPP
57	2497	2498	0.28	0.15	0.05	11.8	2.84	47.6	0.0	DOL MOD SLTY ANHY INCL SLTY LAM SCT PPP
58	2498	2499	0.64	0.63	0.10	14.3	2.84	41.8	0.0	DOL SLTY SL SHLY SL ANHY SCT PPP
59	2499	2500	7.13	6.56	6.70	20.4	2.85	32.1	0.0	DOL SL SLTY SL FOS SCT-ABNT PPP
60	2500	2501	20.32	19.69	26.26	20.6	2.86	29.4	0.0	DOL SL SLTY SL FOS SCT-ABNT PPP
61	2501	2502	2.12	1.23	1.31	6.6	2.91	41.1	0.0	DOL SL SLTY SL FOS LG ANHY INCL SCT-TR PPP
62	2502	2503	83.75	76.61	196.55	21.6	2.84	43.4	0.0	DOL SL SLTY SL FOS SCT-ABNT PPP
63	2503	2504	287.80	220.51	422.01	22.6	2.85	38.0	0.0	DOL SL SLTY SL FOS SCT-ABNT PPP
64	2504	2505	310.73	299.26	140.08	23.0	2.85	33.9	0.0	DOL SL SLTY SL FOS SCT-ABNT PPP
65	2505	2506	130.07	127.95	106.77	21.8	2.84	36.4	0.0	DOL SL SLTY SL FOS SCT-ABNT PPP

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
66	2506	2507	17.93	17.78	6.42	14.6	2.84	39.3	0.0	DOL SL SLTY SL FOS SCT PPP
67	2507	2508	403.39	401.87	464.65	24.6	2.84	38.7	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
68	2508	2509	120.80	119.89	107.87	21.6	2.84	41.3	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
69	2509	2510	43.31	41.97	18.63	20.4	2.84	29.1	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
70	2510	2511	44.29	42.12	23.36	19.8	2.84	35.3	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
71	2511	2512	142.22	133.04	137.95	23.2	2.85	38.4	0.0	DOL SL SLTY SL FOS SL ANHY SCT–ABNT PPP
72	2512	2513	70.25	69.34	60.48	22.5	2.84	28.8	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
73	2513	2514	126.84	119.76	120.03	23.3	2.85	37.9	0.0	DOL SL SLTY SL FOS ANHY INCL SCT–ABNT PPP
74	2514	2515	170.07	164.04	128.10	23.9	2.84	39.6	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
75	2515	2516	347.70	346.46	402.28	24.2	2.85	36.0	0.0	DOL SL SLTY SL FOS SL ANHY SCT–ABNT PPP
76	2516	2517	270.10	231.59	131.13	22.7	2.85	41.0	0.0	DOL SL SLTY SL FOS SL ANHY SCT–ABNT PPP
77	2517	2518	276.72	267.09	168.54	22.9	2.86	35.3	0.0	DOL SL SLTY SL FOS SL ANHY SCT–ABNT PPP
78	2518	2519	120.98	99.00	26.39	21.1	2.85	37.6	0.0	DOL SL SLTY SL FOS SL ANHY SCT–ABNT PPP
79	2519	2520	114.37	102.63	109.71	22.8	2.84	38.4	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
80	2520	2521	39.99	34.28	33.69	18.4	2.84	35.0	0.0	DOL SL SLTY TR–SL FOS SCT PPP
81	2521	2522	52.69	47.16	58.21	19.0	2.85	31.1	0.0	DOL SL SLTY TR–SL FOS SCT PPP
82	2522	2523	57.15	54.81	55.14	23.2	2.85	28.3	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
83	2523	2524	92.49	87.22	81.58	24.3	2.84	33.8	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
84	2524	2525	111.85	111.58	69.42	25.6	2.84	38.8	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
85	2525	2526	94.52	94.08	84.72	24.1	2.85	35.9	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
86	2526	2527	93.05	87.96	8.47	21.8	2.85	28.7	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
87	2527	2528	94.31	90.39	8.41	23.7	2.84	36.9	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
88	2528	2529	81.98	81.79	49.98	25.1	2.83	42.2	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
89	2529	2530	64.44	61.04	30.18	24.5	2.83	40.0	0.0	DOL SL SLTY SL FOS SCT–ABNT PPP
90	2530	2531	1.08	0.92	0.33	16.6	2.81	35.6	0.0	DOL MOD SLTY SL FOS SCT PPP
91	2531	2532	2.44	2.41	1.62	20.5	2.81	35.8	0.0	SS VFGR SLTY SL DOL ANHY INCL INTGR POR
92	2532	2533	0.10	0.10	0.05	9.7	2.79	77.4	0.0	DOL MOD SLTY SL CALC TR FOS TR–SCT PPP
				CORE # 2	2488 – 2533		KRIDER			
93	2533	2534	0.07	Kplug	0.03	12.0	2.79	99.0	0.0	SH LTGY–GY SLTY TR DISM PYR
94	2534	2535	TBFA	Kplug	TBFA	10.1	2.78	96.5	0.0	SH LTGY–GY SLTY TR DISM PYR
95	2535	2536	TBFA	Kplug	TBFA	13.2	2.77	96.1	0.0	SH LTGY–GY SLTY TR DISM PYR
96	2536	2537	11.49	0.07	0.02	8.1	2.73	98.2	0.0	SS VFGR SLTY SL–MOD CALC TR INTGR POR
97	2537	2538	0.055	Kplug	0.015	8.0	2.72	98.6	0.0	RDBD MOD SLTY TR SDY MOD CALC TR ANHY

ANADARKO PETROLEUM

Well: FLOWER A-1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
98	2538	2539	12.481	11.069	0.321	9.6	2.73	98.7	0.0	RDBD MOD SLTY TR SDY MOD CALC TR ANHY
99	2539	2540	2.988	2.012	0.134	6.2	2.69	98.1	0.0	RDBD SL SLTY TR SDY MOD CALC
100	2540	2541	23.550	1.847	0.019	4.7	2.67	97.4	0.0	RDBD SL SLTY TR SDY MOD CALC
101	2541	2542	0.313	0.150	0.022	7.2	2.69	98.6	0.0	RDBD SL SLTY TR SDY MOD CALC
102	2542	2543	0.202	Kplug	0.013	7.5	2.72	97.6	0.0	RDBD SL SLTY TR SDY MOD CALC
103	2543	2544	0.016	PLUG	N/A	7.2	2.72	91.9	0.0	RDBD SL SLTY TR SDY MOD CALC
104	2544	2545	0.157	0.119	0.010	3.7	2.68	97.8	0.0	RDBD TR SLTY TR SDY MOD CALC
105	2545	2546	TBFA	Kplug	0.021	11.4	2.69	96.9	0.0	RDBD TR SLTY TR SDY MOD CALC
106	2546	2547	0.06	0.06	0.01	9.8	2.75	88.0	0.0	SS VFGR MOD SLTY ANHY INCL MOD DOL TR POR
107	2547	2548	92.05	89.83	91.97	17.3	2.68	41.4	0.0	SS VFGR SL SLTY MOD CALC INTGR POR
108	2548	2549	78.31	55.52	107.90	19.2	2.67	48.0	0.0	SS VFGR SL SLTY MOD CALC INTGR POR
				CORE # 3	2533 – 2549	WINFIELD SS				
109	2549	2550	97.63	PLUG	N/A	21.6	2.68	29.0	0.0	SS VFGR SL SLTY MOD CALC INTGR POR
110	2550	2551	68.390	68.081	61.211	19.8	2.65	53.9	0.0	RDBD MOD SLTY SL-MOD SDY TR CALC
111	2551	2552	0.257	0.224	0.064	10.6	2.73	87.4	0.0	RDBD MOD SLTY SL-MOD SDY TR CALC
112	2552	2553	0.10	0.10	0.04	8.4	2.69	56.2	0.0	LS SL SLTY TR FOS TR-SCT PPP
113	2553	2554	0.15	0.14	0.03	8.9	2.69	68.1	0.0	LS SL SLTY TR FOS TR-SCT PPP
114	2554	2555	0.03	0.03	<0.01	4.4	2.69	92.5	0.0	LS SL SLTY TR FOS TR ANHY SH PTG TR PPP
115	2555	2556	0.05	0.05	0.03	8.1	2.71	55.3	0.0	LS SL SLTY TR FOS TR ANHY STYL TR-SCT PPP
116	2556	2557	0.18	0.17	0.12	9.6	2.76	45.2	0.0	LS SL SLTY TR FOS SL ANHY STYL TR-SCT PPP
117	2557	2558	1.03	0.96	0.09	14.0	2.72	72.3	0.0	SS VFGR SL-MOD DOL TR CALC SL SLTY INTGR POR
118	2558	2559	0.45	0.43	0.23	13.6	2.75	63.5	0.0	SS VFGR SL DOL SL SLTY ANHY INCL INTGR POR
119	2559	2560	1.46	1.43	0.24	11.2	2.72	47.5	0.0	LS SL SLTY TR FOS TR-SL ANHY SCT PPP
120	2560	2561	1.64	0.91	0.18	11.9	2.74	58.2	0.0	LS SL SLTY TR FOS TR-SL ANHY SCT PPP
121	2561	2562	14.84	14.50	3.28	18.3	2.73	48.5	0.0	LS SL SLTY TR FOS TR-SL ANHY SCT PPP
122	2562	2563	15.26	14.67	2.97	16.8	2.71	58.7	0.0	LS SL SLTY TR FOS TR-SL ANHY SCT PPP
123	2563	2564	28.42	28.04	6.26	17.6	2.69	57.0	0.0	LS SL-MOD SLTY SL-TR FOS SL ANHY SCT PPP
124	2564	2565	7.05	6.91	0.89	15.1	2.70	58.0	0.0	LS SL-MOD SLTY SL-TR FOS SL ANHY SCT PPP
125	2565	2566	0.25	0.17	0.05	10.4	2.72	74.2	0.0	LS SL-MOD SLTY SL-TR FOS SL ANHY SCT PPP
126	2566	2567	0.68	0.65	0.13	9.0	2.70	46.7	0.0	LS SL-MOD SLTY SL-TR FOS SL ANHY SCT PPP
127	2567	2568	0.81	0.81	0.35	9.6	2.71	45.7	0.0	LS SL-MOD SLTY SL-TR FOS SL ANHY SCT PPP
128	2568	2569	0.16	0.16	0.07	6.7	2.69	45.1	0.0	LS SL-MOD SLTY SL-TR FOS SL ANHY SCT PPP
129	2569	2570	0.26	0.24	0.12	13.1	2.75	54.8	0.0	LS SL-MOD SLTY TR FOS SL SDY SL DOL SCT PPP

ANADARKO PETROLEUM

Well: FLOWER A-1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
130	2570	2571	0.78	0.74	0.51	17.1	2.78	51.9	0.0	LS SL SLTY TR FOS MOD DOL SCT PPP
131	2571	2572	0.64	0.62	0.41	17.0	2.81	54.9	0.0	DOL SL SLTY TR FOS MOD CALC SCT PPP
132	2572	2573	0.05	0.05	0.03	7.3	2.71	42.9	0.0	LS SL-TR SLTY TR FOS TR PPP
133	2573	2574	0.16	0.16	0.14	9.3	2.71	44.2	0.0	LS SL-TR SLTY TR FOS TR-SCT PPP
134	2574	2575	1.18	1.17	0.90	12.2	2.70	47.3	0.0	LS SL SLTY SL FOS SCT PPP
135	2575	2576	0.20	0.18	0.14	11.1	2.73	51.1	0.0	LS SL SLTY SL FOS SCT PPP
136	2576	2577	2.33	2.11	1.80	14.1	2.71	46.5	0.0	LS SL SLTY SL FOS SCT PPP
137	2577	2578	8.34	8.30	10.87	17.5	2.71	60.4	0.0	LS SL-TR SLTY SL FOS SCT-ABNT PPP
138	2578	2579	5.76	5.50	8.46	16.5	2.71	64.5	0.0	LS SL-TR SLTY SL FOS SCT-ABNT PPP
139	2579	2580	6.28	6.28	7.19	16.4	2.73	60.5	0.0	LS SL-TR SLTY SL FOS SCT-ABNT PPP
140	2580	2581	0.10	0.09	0.08	11.6	2.76	62.8	0.0	LS SL SLTY SL FOS SL DOL SCT PPP
			CORE # 4	2549 - 2581	WINFIELD DOL					
141	2581	2582	0.09	0.08	0.04	9.7	2.73	52.4	0.0	LS SL SLTY SL FOS SL DOL SCT PPP
142	2582	2583	1.81	1.66	1.19	9.0	2.80	53.6	0.0	LS SL SLTY MOD DOL SL FOS SL ANHY TR-SCT PPP
143	2583	2584	0.05	0.05	0.02	8.1	2.74	73.1	0.0	LS SL-MOD SLTY TR DOL SL FOS TR ANHY TR PPP
144	2584	2585	1.27	1.22	0.15	14.2	2.72	59.8	0.0	SS VFGR SL-MOD SLTY TR-SL DOL INTGR POR
145	2585	2586	0.39	0.23	0.02	8.7	2.71	86.6	0.0	SS VFGR MOD SLTY SL DOL SL CALC TR INTGR POR
146	2586	2587	0.14	0.07	0.03	7.1	2.70	85.9	0.0	LS SL-MOD SLTY MOD SDY TR PPP
147	2587	2588	0.09	0.08	0.05	11.7	2.70	86.0	0.0	SS VFGR SL SLTY TR CALC INTGR POR
148	2588	2589	0.05	0.05	0.02	8.2	2.70	85.0	0.0	SS VFGR SL SLTY SL-MOD CALC TR INTGR POR
149	2589	2590	0.06	0.04	0.04	9.2	2.68	92.0	0.0	SS VFGR SL SLTY SL-MOD CALC TR INTGR POR
150	2590	2591	0.04	0.04	0.01	9.2	2.68	88.0	0.0	SS VFGR SL SLTY SL-MOD CALC TR INTGR POR
	2591	2592			NO ANALYSIS					SH GYGN GN SL SLTY SL CALC FRAC
151	2592	2593	5.837	1.008	10.031	6.8	2.69	95.7	0.0	RDBD MOD SLTY SHLY SL CALC FRAC
152	2593	2594	100.032	Kplug	0.010	7.1	2.70	96.4	0.0	RDBD MOD SLTY SHLY SL CALC FRAC
	2594	2595			NO ANALYSIS					RDBD MOD SLTY SHLY SL CALC FRAC
153	2595	2596	14.060	4.531	8.753	9.1	2.72	97.6	0.0	RDBD MOD SLTY SHLY SL CALC FRAC
154	2596	2597	*4.200	*0.801	*0.645	10.3	2.69	95.4	0.0	RDBD SLTY TR SDY SHLY SL CALC FRAC
155	2597	2598	25.138	24.915	7.165	9.7	2.75	95.5	0.0	RDBD SLTY TR SDY SHLY SL CALC FRAC
156	2598	2599	23.828	14.995	2.086	11.0	2.71	93.9	0.0	RDBD SLTY TR SDY SHLY SL CALC FRAC
	2599	2600			NO ANALYSIS					RDBD SLTY TR SDY SHLY SL CALC FRAC
157	2600	2601	0.888	Kplug	0.786	9.5	2.73	94.1	0.0	RDBD SHLY SLTY SME LS MOD SLTY FRAC
158	2601	2602	30.909	11.083	0.020	5.9	2.67	94.9	0.0	RDBD SLTY MOD SHLY MOD CALC TR SDY

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
159	2602	2603	11.538	7.361	0.071	6.5	2.71	97.7	0.0	RDBD SHLY SLTY MOD CALC TR SDY
160	2603	2604	8.857	8.106	2.579	6.7	2.71	95.9	0.0	RDBD SHLY SLTY MOD CALC TR SDY
161	2604	2605	8.217	4.720	10.566	9.6	2.73	96.8	0.0	RDBD SLTY SL SDY MOD CALC SL SHLY
162	2605	2606	5.936	3.406	0.071	8.8	2.72	95.4	0.0	RDBD SLTY SL SDY MOD CALC SL SHLY
163	2606	2607	3.750	3.628	0.025	5.3	2.67	97.6	0.0	RDBD GNGY SH SLTY TR–SL SDY MOD CALC
164	2607	2608	8.002	1.613	0.006	7.0	2.69	96.1	0.0	RDBD GNGY SH SLTY TR–SL SDY MOD CALC
165	2608	2609	0.064	0.054	0.017	11.7	2.69	94.4	0.0	RDBD SLTY SDY TR SHLY TR–NON CALC
166	2609	2610	0.127	0.125	0.056	12.5	2.69	95.4	0.0	RDBD SLTY SDY TR SHLY TR–NON CALC
167	2610	2611	0.086	0.063	0.010	9.6	2.70	97.6	0.0	RDBD SLTY MOD SDY MOD–SL CALC
			CORE # 5 2581 – 2611 GAGE							
168	2611	2612	0.433	0.415	0.254	17.5	2.71	60.5	0.0	RDBD MOD SLTY MOD SDY TR–NON CALC
169	2612	2613	0.483	0.467	0.296	16.2	2.71	58.6	0.0	RDBD MOD SLTY MOD SDY TR–NON CALC
170	2613	2614	TBFA	Kplug	0.09	8.4	2.72	80.0	0.0	SH GN–GYGN MOD SLTY TR SDY FRAC
171	2614	2615	70.18	0.08	78.33	8.1	2.70	85.7	0.0	SS VFGR SL SLTY SL–MOD CALC FRAC TR INTGR POR
172	2615	2616	0.16	0.15	0.05	12.3	2.70	77.2	0.0	SS VFGR SL SLTY SL–TR CALC INTGR POR
173	2616	2617	0.09	Kplug	0.48	11.9	2.62	87.4	0.0	SS VFGR SL SLTY TR CALC SH PTG INTGR POR
174	2617	2618	1.87	1.85	1.51	14.1	2.69	34.8	0.0	LS SL SLTY SL SDY TR FOS SCT PPP
175	2618	2619	1.85	1.84	1.98	15.4	2.69	38.1	0.0	LS SL SLTY SL SDY TR FOS SCT PPP
176	2619	2620	1.86	1.83	1.51	17.5	2.68	50.6	0.0	LS SL SLTY SL SDY TR FOS SCT PPP
177	2620	2621	0.87	0.85	0.66	14.0	2.68	42.1	0.0	LS SL SLTY SL SDY TR FOS SCT PPP
178	2621	2622	1.01	0.96	0.26	16.5	2.68	52.3	0.0	LS SL SLTY SL SDY TR FOS SCT PPP
179	2622	2623	0.22	0.22	0.12	8.3	2.70	78.5	0.0	LS SL SLTY TR FOS SHLY PTG TR–SCT PPP
180	2623	2624	0.06	0.05	0.05	8.6	2.71	76.4	0.0	LS SL SLTY TR FOS SHLY PTG TR–SCT PPP
181	2624	2625	1.55	0.95	0.59	17.4	2.68	62.9	0.0	LS SL SLTY TR SDY SL FOS SCT PPP
182	2625	2626	0.63	0.63	0.46	12.6	2.70	41.4	0.0	LS SL SLTY TR SDY SL FOS SCT PPP
183	2626	2627	2.18	2.14	2.10	14.4	2.71	41.4	0.0	LS SL SLTY TR SDY SL FOS SCT PPP
184	2627	2628	1.16	1.11	1.12	13.3	2.70	47.0	0.0	LS SL SLTY TR SDY SL FOS SCT PPP
185	2628	2629	0.34	0.33	0.10	11.7	2.71	44.6	0.0	LS SL SLTY TR SDY SL FOS SCT PPP
186	2629	2630	0.12	0.12	0.07	11.2	2.72	46.0	0.0	LS SL SLTY TR SDY SL FOS SCT PPP
187	2630	2631	0.07	0.07	0.04	9.7	2.72	65.8	0.0	LS SL–MOD SLTY TR FOS TR–SCT PPP
188	2631	2632	0.16	0.15	0.07	11.6	2.72	46.3	0.0	LS SL–MOD SLTY SL–TR FOS TR–SCT PPP
189	2632	2633	3.77	3.61	4.46	13.8	2.72	49.2	0.0	LS SL–MOD SLTY SL FOS TR–SCT PPP
190	2633	2634	5.26	5.21	6.34	13.4	2.72	50.8	0.0	LS SL–MOD SLTY SL FOS TR–SCT PPP

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
191	2634	2635	2.43	2.39	2.70	12.1	2.70	47.1	0.0	LS SL–MOD SLTY SL FOS TR–SCT PPP
192	2635	2636	0.10	0.09	0.05	10.6	2.72	61.0	0.0	LS SL–MOD SLTY TR FOS STYL SCT PPP
193	2636	2637	0.09	0.08	0.04	10.2	2.71	65.5	0.0	LS SL–MOD SLTY TR FOS STYL SCT PPP
194	2637	2638	0.07	0.07	0.03	9.5	2.71	77.6	0.0	LS SL–MOD SLTY TR FOS STYL SCT PPP
195	2638	2639	2.65	2.61	2.65	15.0	2.71	48.2	0.0	LS SL SLTY SL FOS TR ANHY SCT PPP
196	2639	2640	3.63	3.61	3.63	15.1	2.70	51.3	0.0	LS SL SLTY SL FOS TR ANHY SCT PPP
197	2640	2641	8.15	7.83	9.80	17.6	2.70	56.1	0.0	LS SL SLTY SL FOS TR ANHY SCT–ABNT PPP
198	2641	2642	13.07	12.98	17.15	18.3	2.70	57.0	0.0	LS SL SLTY SL FOS TR ANHY SCT–ABNT PPP
199	2642	2643	9.75	9.66	12.39	18.1	2.70	60.4	0.0	LS SL SLTY SL FOS TR ANHY SCT–ABNT PPP
200	2643	2644	4.93	4.91	5.65	17.4	2.70	58.1	0.0	LS SL SLTY SL FOS TR ANHY SCT–ABNT PPP
201	2644	2645	1.77	1.76	1.54	16.1	2.70	50.3	0.0	LS SL SLTY SL FOS TR ANHY SCT–ABNT PPP
202	2645	2646	2.41	2.27	1.81	15.1	2.71	52.1	0.0	LS SL SLTY SL FOS TR ANHY SCT PPP
203	2646	2647	0.26	0.25	0.12	11.1	2.72	43.3	0.0	LS MOD SLTY SL FOS TR ANHY STYL SCT PPP
204	2647	2648	4.15	3.75	3.45	14.1	2.72	53.0	0.0	LS MOD–SL SLTY TR ANHY SL FOS SCT PPP
205	2648	2649	4.57	4.12	3.56	14.3	2.73	42.7	0.0	LS MOD–SL SLTY SL ANHY SL FOS SCT PPP
206	2649	2650	0.37	0.33	0.16	12.0	2.70	35.8	0.0	LS MOD–SL SLTY TR ANHY SL FOS SCT PPP
207	2650	2651	0.47	0.44	0.15	11.9	2.71	44.6	0.0	LS MOD SLTY TR ANHY TR FOS SCT PPP
208	2651	2652	0.89	0.85	0.36	10.3	2.76	35.7	0.0	LS SL–MOD SLTY ANHY INCL SL FOS SCT PPP
209	2652	2653	0.69	0.67	0.54	11.1	2.73	32.5	0.0	LS SL–MOD SLTY SL ANHY SL FOS SCT PPP
210	2653	2654	0.56	0.56	0.41	15.9	2.75	38.3	0.0	LS SL–MOD SLTY SL ANHY SL FOS SCT PPP
211	2654	2655	0.08	PLUG	N/A	9.9	2.74	63.6	0.0	LS SL–MOD SLTY SL ANHY SL FOS SCT PPP
212	2655	2656	0.11	0.09	0.03	10.5	2.74	68.5	0.0	LS MOD SLTY SL SHLY TR ANHY TR FOS SCT PPP
			CORE # 6 2611 – 2656 TOWANDA							
213	2656	2657	1.40	1.38	0.59	16.7	2.71	57.8	0.0	SS VFGR MOD SLTY TR ANHY INTGR POR
214	2657	2658	0.43	0.43	0.10	15.0	2.71	70.2	0.0	SS VFGR MOD SLTY TR ANHY INTGR POR
215	2658	2659	1.03	1.00	0.24	16.2	2.71	64.5	0.0	SS VFGR MOD SLTY TR ANHY INTGR POR
216	2659	2660	1.31	1.30	0.11	16.8	2.71	64.4	0.0	SS VFGR MOD SLTY TR ANHY INTGR POR
217	2660	2661	0.41	Kplug	0.06	15.0	2.72	64.8	0.0	SH GY–GYBLK SLTY SL SDY NON CALC
218	2661	2662	0.04	Kplug	0.06	10.1	2.70	80.0	0.0	SH GY–GYBLK SLTY SL SDY SL–MOD CALC
219	2662	2663	TBFA	Kplug	TBFA	4.9	2.73	92.4	0.0	SH GY–GYBLK SLTY SL SDY SL–MOD CALC
220	2663	2664	0.13	0.11	0.07	13.0	2.72	90.6	0.0	SS VFGR SLTY TR DOL TR PYR INTGR POR
221	2664	2665	0.13	0.10	0.04	12.7	2.72	84.0	0.0	SS VFGR SLTY TR DOL TR PYR INTGR POR
222	2665	2666	1.34	0.50	0.06	11.4	2.70	90.6	0.0	SS VFGR SLTY TR DOL INTGR POR

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
223	2666	2667	28.04	8.05	0.54	20.3	2.79	98.1	0.0	DOL SLTY SL CLY TR SDY SCT PPP
224	2667	2668	TBFA	Kplug	TBFA	15.4	2.72	86.9	0.0	SH GN–GYGN MOD SLTY SL SDY NON CALC
225	2668	2669	3.48	1.62	0.13	13.7	2.70	94.8	0.0	SS VFGR SLTY TR CALC INTGR POR
226	2669	2670	0.81	0.21	0.03	10.0	2.73	90.7	0.0	SS VFGR SLTY TR CALC INTGR POR
227	2670	2671	0.71	Kplug	0.03	9.0	2.73	87.8	0.0	SS VFGR SLTY SLTY LAM TR CALC INTGR POR
228	2671	2672	1.87	0.95	0.09	13.5	2.75	69.0	0.0	SS VFGR MOD SLTY LAM TR CALC FRAC INTGR POR
229	2672	2673	0.09	Kplug	0.12	15.1	2.70	88.4	0.0	SS VFGR MOD SLTY TR CALC INTGR POR
230	2673	2674	0.33	0.32	0.09	18.1	2.82	59.9	0.0	SS VFGR SLTY ANHY INCL SL–MOD CALC INTGR POR
231	2674	2675	0.53	0.52	0.40	14.0	2.75	47.3	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
232	2675	2676	5.89	5.59	4.14	19.0	2.79	45.6	0.0	LS SL SLTY LG ANHY INCL TR FOS SCT PPP
233	2676	2677	1.36	1.35	1.51	11.0	2.75	53.9	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
234	2677	2678	2.09	2.06	1.40	16.4	2.72	46.2	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
235	2678	2679	1.83	1.06	1.52	13.4	2.72	51.4	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
236	2679	2680	1.99	1.36	0.21	12.5	2.74	53.3	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
237	2680	2681	0.74	0.69	0.68	16.0	2.76	39.4	0.0	LS SL–MOD SLTY LG ANHY INCL TR FOS SCT PPP
238	2681	2682	1.28	1.17	0.96	16.1	2.72	50.4	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
239	2682	2683	2.28	2.21	2.23	17.6	2.73	58.2	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
240	2683	2684	2.67	2.67	2.52	17.1	2.74	62.9	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
241	2684	2685	2.83	2.70	2.99	14.9	2.73	71.5	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
242	2685	2686	1.13	1.08	0.87	14.7	2.73	53.2	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
243	2686	2687	1.41	1.40	1.36	16.2	2.72	52.7	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
244	2687	2688	1.53	1.51	1.27	16.9	2.72	44.7	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
245	2688	2689	1.31	1.30	1.33	17.2	2.74	44.1	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
246	2689	2690	1.57	1.53	1.42	17.2	2.73	43.9	0.0	LS SL SLTY ANHY INCL TR FOS SCT PPP
247	2690	2691	2.41	2.20	2.61	15.1	2.76	47.9	0.0	LS SL–MOD SLTY LG ANHY INCL SCT PPP
248	2691	2692	2.31	2.26	2.68	15.8	2.75	46.8	0.0	LS SL–MOD SLTY ANHY INCL SCT PPP
249	2692	2693	1.61	1.53	0.87	12.5	2.78	40.6	0.0	LS SL–MOD SLTY LG ANHY INCL SCT PPP
250	2693	2694	1.38	1.33	1.24	14.5	2.75	37.0	0.0	LS SL–MOD SLTY ANHY INCL SCT PPP
251	2694	2695	0.92	0.90	0.65	14.8	2.73	35.5	0.0	LS SL–MOD SLTY ANHY INCL SCT PPP
252	2695	2696	0.49	0.48	0.40	14.4	2.75	34.3	0.0	LS SL–MOD SLTY ANHY INCL SCT PPP
253	2696	2697	0.48	0.46	0.25	14.6	2.76	34.1	0.0	LS SL–MOD SLTY LG ANHY INCL SCT PPP
254	2697	2698	0.08	0.06	0.02	4.8	2.84	42.9	0.0	LS MOD SLTY V LG ANHY INCL SL FOS TR PPP
255	2698	2699	0.30	0.24	0.10	6.1	2.82	38.6	0.0	LS MOD DOL MOD SLTY LG ANHY INCL TR PPP

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
256	2699	2700	0.33	0.32	0.17	12.6	2.74	36.8	0.0	LS SL–MOD SLTY ANHY INCL TR FOS SCT PPP
257	2700	2701	0.50	0.50	0.40	13.9	2.76	37.1	0.0	LS SL–MOD SLTY ANHY INCL TR FOS SCT PPP
			CORE # 7	2656 – 2701	FT. RILEY					
258	2701	2702	0.47	0.47	0.35	14.4	2.74	45.1	0.0	LS SL–MOD SLTY ANHY INCL TR FOS SCT PPP
259	2702	2703	0.39	0.37	0.25	13.3	2.72	46.5	0.0	LS SL–MOD SLTY ANHY INCL TR FOS SCT PPP
260	2703	2704	0.27	0.25	0.24	12.3	2.72	48.1	0.0	LS SL–MOD SLTY ANHY INCL TR FOS SCT PPP
261	2704	2705	0.18	0.18	0.10	11.6	2.73	49.5	0.0	LS MOD–SL SLTY ANHY INCL TR FOS SCT PPP
262	2705	2706	0.10	0.09	0.11	9.8	2.73	66.3	0.0	LS MOD–SL SLTY ANHY INCL TR FOS SCT PPP
263	2706	2707	0.12	0.11	0.07	11.8	2.75	64.8	0.0	LS MOD–SL SLTY ANHY INCL TR FOS SCT PPP
264	2707	2708	0.08	0.08	0.04	9.9	2.73	60.2	0.0	LS MOD–SL SLTY ANHY INCL TR FOS SCT PPP
265	2708	2709	0.08	0.08	0.12	10.4	2.71	63.3	0.0	LS MOD–SL SLTY ANHY INCL TR FOS SCT PPP
266	2709	2710	0.09	0.08	0.06	9.6	2.72	77.6	0.0	LS SL–MOD SLTY SL ANHY TR FOS SCT PPP
267	2710	2711	0.32	0.27	0.17	13.9	2.74	74.2	0.0	LS MOD SLTY TR DOL ANHY INCL TR FOS SCT PPP
268	2711	2712	0.10	0.09	0.01	12.4	2.72	80.0	0.0	LS MOD SLTY SL DOL SL ANHY TR FOS SCT PPP
269	2712	2713	0.07	0.06	0.03	8.4	2.72	72.8	0.0	LS MOD SLTY SL DOL SL ANHY TR FOS SCT PPP
270	2713	2714	0.12	Kplug	0.28	10.5	2.82	75.0	0.0	DOL MOD SLTY SL FOS SL ANHY SCT PPP
271	2714	2715	2.83	Kplug	0.81	12.5	2.88	60.6	0.0	DOL MOD SLTY SL FOS ANHY INCL SCT PPP
272	2715	2716	7.73	2.65	0.04	9.2	2.72	76.9	0.0	SH GY–GYBLK SLTY SL SDY TR ANHY
273	2716	2717	4.39	1.47	<0.01	8.9	2.69	72.0	0.0	SS VFGR SLTY SL SHLY SL–MOD CALC TR INTGR POR
274	2717	2718	0.36	0.11	0.01	8.5	2.68	62.2	0.0	SS VFGR SLTY SL SHLY SL–MOD CALC TR INTGR POR
275	2718	2719	0.17	0.08	0.01	9.9	2.70	63.8	0.0	SS VFGR SLTY SL SHLY SL–MOD CALC TR INTGR POR
276	2719	2720	0.01	Kplug	0.01	7.0	2.64	82.0	0.0	SS VFGR SLTY SH PTG MOD CALC MOD ANHY TR POR
277	2720	2721	1.07	0.79	<0.01	6.9	2.67	74.6	0.0	SS VFGR SLTY SHLY LAM SL ANHY TR INTGR POR
278	2721	2722	11.88	5.25	<0.01	8.3	2.68	79.0	0.0	SS VFGR SLTY SHLY LAM SL ANHY TR INTGR POR
279	2722	2723	0.31	0.25	0.01	7.2	2.66	79.4	0.0	SS VFGR SLTY TR SH SLTY LAM MOD CALC TR POR
280	2723	2724	2.93	1.83	<0.01	7.7	2.66	82.4	0.0	SS VFGR SLTY TR SH SLTY LAM MOD CALC TR POR
281	2724	2725	0.28	0.15	<0.01	8.5	2.66	73.8	0.0	SS VFGR SLTY TR SH SLTY LAM MOD CALC TR POR
282	2725	2726	0.04	Kplug	<0.01	7.3	2.65	83.0	0.0	SS VFGR SLTY TR SH SLTY LAM MOD CALC TR POR
			CORE # 8	2701 – 2726	LOWER FT. RILEY					
283	2726	2727	0.02	0.02	0.04	7.0	2.66	86.8	0.0	SS VFGR SLTY TR SH SLTY LAM MOD CALC TR POR
284	2727	2728	0.77	0.53	0.03	7.1	2.66	83.5	0.0	SS VFGR SLTY TR SH SLTY LAM MOD CALC TR POR
285	2728	2729	TBFA	Kplug	1.13	9.1	2.71	83.4	0.0	SH GY–GYLK SL CALC SL SLTY TR FOS FRAC
286	2729	2730	0.45	0.10	0.07	4.1	2.66	95.5	0.0	LS SLTY MOD–V SHLY TR ANHY SL FOS TR PPP

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
287	2730	2731	2.45	1.56	0.15	6.2	2.70	88.8	0.0	LS SLTY–MOD SLTY TR ANHY SL FOS TR PPP
288	2731	2732	0.21	Kplug	0.01	6.0	2.71	89.7	0.0	LS SLTY–MOD SLTY TR ANHY SL FOS TR PPP
289	2732	2733	0.02	Kplug	0.09	6.0	2.69	74.0	0.0	LS SLTY–MOD SLTY TR ANHY SL FOS TR PPP
290	2733	2734	0.07	0.07	0.10	6.4	2.69	63.2	0.0	LS SLTY–MOD SLTY TR ANHY SL FOS TR PPP
291	2734	2735	0.14	0.14	0.09	9.4	2.72	44.9	0.0	LS SL–MOD SLTY TR ANHY FOS SCT PPP
292	2735	2736	0.24	0.24	0.24	8.9	2.74	32.6	0.0	LS SL SLTY ANHY INCL SL FOS SCT PPP
293	2736	2737	0.06	0.05	<0.01	7.0	2.70	63.3	0.0	LS SL SLTY TR ANHY SL FOS TR PPP
294	2737	2738	0.05	0.04	0.02	7.0	2.70	64.0	0.0	LS SL SLTY TR ANHY SL FOS TR PPP
295	2738	2739	0.23	0.05	0.08	10.6	2.68	62.0	0.0	SS VFGR SLTY MOD CALC INTGR POR
296	2739	2740	0.30	0.22	0.21	10.8	2.68	53.9	0.0	SS VFGR SLTY MOD CALC INTGR POR
297	2740	2741	0.18	Kplug	0.04	9.7	2.69	69.1	0.0	SS VFGR SLTY MOD CALC SHLY LAM INTGR POR
298	2741	2742	0.07	0.06	0.04	9.3	2.70	84.9	0.0	SS VFGR MOD SLTY MOD CALC INTGR POR
299	2742	2743	0.07	0.07	0.08	8.9	2.67	87.3	0.0	SS VFGR MOD SLTY MOD CALC INTGR POR
300	2743	2744	0.08	0.08	0.05	7.9	2.68	79.6	0.0	SS VFGR MOD SLTY MOD CALC TR INTGR POR
301	2744	2745	0.03	0.02	0.01	7.7	2.68	99.2	0.0	SS VFGR MOD SLTY MOD CALC TR INTGR POR
302	2745	2746	1.56	0.05	0.01	8.5	2.67	75.7	0.0	SS VFGR MOD SLTY MOD CALC TR INTGR POR
303	2746	2747	5.613	5.364	11.400	6.7	2.69	99.2	0.0	RDBD SLTY MOD CALC SL SHLY TR SDY
304	2747	2748	12.495	6.395	5.598	8.9	2.77	89.1	0.0	RDBD MOD SLTY MOD CALC TR SDY TR ANHY
305	2748	2749	0.132	0.128	0.008	8.3	2.73	97.0	0.0	RDBD MOD SLTY MOD CALC TR SDY TR ANHY
306	2749	2750	1.975	PLUG	N/A	8.9	2.76	92.5	0.0	RDBD MOD SLTY MOD CALC TR SDY TR ANHY
307	2750	2751	0.131	PLUG	N/A	8.4	2.76	90.2	0.0	RDBD MOD SLTY MOD CALC TR SDY TR ANHY
			CORE # 9 2726 – 2751 FLORENCE							
308	2751	2752	NO ANALYSIS – TBFA							RDBD MOD SLTY MOD CALC TR SDY
309	2752	2753	1.285	0.130	0.001	4.9	2.69	96.8	0.0	RDBD MOD SLTY MOD CALC TR SDY
310	2753	2754	0.348	0.171	0.001	4.9	2.67	98.4	0.0	RDBD MOD SLTY MOD CALC TR SDY
311	2754	2755	0.026	Kplug	0.015	7.4	2.71	98.3	0.0	RDBD MOD SLTY MOD CALC TR SDY
312	2755	2756	3.114	2.893	0.005	6.5	2.71	94.5	0.0	RDBD MOD SLTY MOD CALC TR SDY
313	2756	2757	1.355	0.996	0.001	7.4	2.69	96.4	0.0	RDBD MOD SLTY MOD CALC TR SDY
314	2757	2758	0.078	Kplug	0.076	9.3	2.72	96.2	0.0	RDBD MOD SLTY MOD CALC TR SDY
315	2758	2759	2.558	0.546	0.001	7.8	2.72	94.3	0.0	RDBD MOD SLTY MOD CALC TR SDY
316	2759	2760	15.818	15.654	28.832	10.7	2.78	94.8	0.0	RDBD MOD SLTY MOD CALC TR SDY
317	2760	2761	16.450	11.643	5.221	7.2	2.71	98.8	0.0	RDBD MOD SLTY MOD CALC TR SDY
318	2761	2762	0.501	0.092	0.021	11.2	2.68	97.6	0.0	RDBD MOD SLTY MOD CALC TR SDY

RESERVOIRS INC.

ANADARKO PETROLEUM

Well: FLOWER A-1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
319	2762	2763		NO ANALYSIS - TBFA						RDBD MOD SLTY MOD CALC TR SDY
320	2763	2764	0.07	0.06	<0.01	9.9	2.74	85.0	0.0	LS MOD SLTY SHLY SL ANHY SL SDY TR PPP
321	2764	2765	0.33	0.04	0.02	4.2	2.69	72.7	0.0	LS SL SLTY SL ANHY TR SDY TR ANHY SCT PPP
322	2765	2766	0.17	0.16	0.11	10.4	2.73	49.8	0.0	LS SL SLTY SL ANHY TR SDY SCT PPP
323	2766	2767	0.27	0.27	0.18	11.5	2.74	49.7	0.0	LS SL SLTY SL ANHY TR SDY SCT PPP
324	2767	2768	0.05	0.05	0.04	7.9	2.72	76.0	0.0	LS SL SLTY TR ANHY STYL TR-SCT PPP
325	2768	2769	0.05	0.04	0.02	6.7	2.70	66.5	0.0	LS SL SLTY TR ANHY STYL TR-SCT PPP
326	2769	2770	0.07	0.07	0.06	9.2	2.72	58.3	0.0	LS SL SLTY TR FOS SCT PPP
327	2770	2771	0.16	0.16	0.11	9.5	2.72	48.5	0.0	LS SL SLTY TR FOS SCT PPP
328	2771	2772	0.34	0.31	0.30	9.3	2.74	46.0	0.0	LS SL SLTY TR FOS SCT PPP
329	2772	2773	14.55	14.53	14.82	14.2	2.78	31.3	0.0	LS V FRI SL SLTY SL ANHY FOS SCT PPP
330	2773	2774	0.07	Kplug	0.02	7.5	2.71	69.3	0.0	LS SL-MOD SLTY STYL SL FOS TR-SCT PPP
331	2774	2775	0.38	Kplug	1.86	13.7	2.72	27.5	0.0	LS MOD SLTY FOS FRAC TR PPP
332	2775	2776	0.10	0.09	0.03	10.4	2.68	73.1	0.0	LS SL-MOD SLTY SHLY LAM TR FOS SCT PPP
333	2776	2777	0.10	0.10	0.07	9.9	2.70	57.8	0.0	LS MOD-SL SLTY ANHY INCL TR FOS SCT PPP
334	2777	2778	0.12	0.09	0.06	10.3	2.70	82.5	0.0	LS MOD-SL SLTY SHLY LAM TR FOS SCT PPP
335	2778	2779	0.38	0.34	0.16	11.7	2.67	79.2	0.0	LS MOD SLTY SL SDY SLTY LAM SCT PPP
336	2779	2780	0.51	0.51	0.17	14.1	2.67	74.0	0.0	LS MOD SLTY SL SDY SLTY LAM SCT PPP
337	2780	2781	5.08	4.92	1.20	19.3	2.76	25.8	0.0	LS MOD-SL SLTY SL ANHY TR DOL SL FOS SCT PPP
338	2781	2782	8.39	5.89	4.26	12.6	2.79	36.2	0.0	LS MOD-SL SLTY ANHY INCL TR DOL SL FOS SCT PPP
339	2782	2783	1.34	1.30	0.71	13.6	2.73	35.0	0.0	LS MOD-SL SLTY SL ANHY TR DOL SL FOS SCT PPP
340	2783	2784	0.33	0.07	0.05	6.4	2.70	67.1	0.0	LS SL-MOD SLTY TR ANHY SL FOS TR PPP
341	2784	2785	0.11	0.11	0.09	8.7	2.72	55.0	0.0	LS SL-MOD SLTY TR ANHY SL FOS TR PPP
342	2785	2786	0.10	0.09	0.08	7.9	2.73	53.5	0.0	LS SL-MOD SLTY TR ANHY SL FOS TR PPP
343	2786	2787	9.96	5.78	0.12	7.9	2.73	76.7	0.0	LS SL-MOD SLTY TR ANHY SL FOS TR PPP
344	2787	2788	0.68	Kplug	0.25	5.7	2.73	62.3	0.0	LS SL-MOD SLTY TR ANHY SL FOS TR PPP
345	2788	2789	2.02	0.41	3.31	6.6	2.73	42.9	0.0	LS SL-MOD SLTY TR ANHY SL FOS FRAC TR PPP
346	2789	2790	TBFA	Kplug	TBFA	6.5	2.70	85.3	0.0	LS MOD SLTY-SLTY GRDG TO SH FRAC TR PPP
347	2790	2791		NO ANALYSIS - TBFA						LS SLTY SHLY GRDG TO SH FRAC TR PPP
				CORE # 10 2751 - 2791 WREFORD						
348	2791	2792	TBFA	Kplug	TBFA	9.9	2.76	92.3	0.0	SH BRN-BRNGY SL SLTY SL CALC
349	2792	2793	TBFA	Kplug	TBFA	8.2	2.75	85.7	0.0	SH BRN-BRNGY SL SLTY SL CALC
350	2793	2794	TBFA	Kplug	TBFA	8.8	2.74	87.3	0.0	SH BRN-BRNGY SL SLTY SL CALC

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
351	2794	2795	13.858	4.029	0.011	6.4	2.73	95.9	0.0	RDBDRDBD MOD SLTY SL–MOD CALC TR ANHY
352	2795	2796	4.703	2.474	0.121	8.0	2.74	98.3	0.0	RDBDRDBD MOD SLTY SL–MOD CALC TR ANHY
353	2796	2797	TBFA	Kplug	TBFA	11.8	2.81	87.2	0.0	SH GYBRN BRNRD SL SLTY SL CALC
354	2797	2798	0.052	0.034	0.010	5.7	2.69	98.1	0.0	RDBD MOD SLTY SL SDY MOD CALC
355	2798	2799	0.016	0.014	0.004	6.6	2.69	96.7	0.0	RDBD MOD SLTY SL SDY MOD CALC
356	2799	2800	0.019	0.018	0.008	7.8	2.68	88.3	0.0	RDBD MOD SLTY SL SDY MOD CALC
357	2800	2801	0.021	0.013	0.007	6.9	2.70	96.5	0.0	RDBD MOD SLTY SL SDY MOD CALC
358	2801	2802	0.021	0.017	0.014	8.7	2.70	86.3	0.0	RDBD MOD SLTY SL SDY MOD CALC
359	2802	2803	0.024	0.021	0.005	8.7	2.69	83.4	0.0	RDBD MOD SLTY SL SDY MOD CALC
360	2803	2804	TBFA	Kplug	TBFA	9.6	2.76	97.0	0.0	RDBD MOD SLTY TR SDY MOD–V SHLY TR CALC
361	2804	2805	0.645	0.411	0.010	6.3	2.68	98.1	0.0	RDBD MOD SLTY SL SDY MOD CALC
362	2805	2806	0.013	0.012	0.009	7.9	2.71	86.6	0.0	RDBD MOD SLTY SL SDY SL CALC
363	2806	2807	0.031	0.030	0.012	9.4	2.74	91.1	0.0	RDBD MOD SLTY SL SDY SL CALC
364	2807	2808	0.052	0.041	0.017	12.8	2.73	91.2	0.0	RDBD MOD SLTY SL SDY TR CALC
365	2808	2809	0.531	0.103	0.021	11.6	2.79	92.3	0.0	RDBD MOD SLTY SL SDY TR–NON CALC INTBD GY SH
366	2809	2810	0.042	0.040	0.005	12.5	2.73	98.3	0.0	RDBD MOD SLTY SL SDY SL ANHY NON CALC
367	2810	2811	1.11	0.16	0.01	4.3	2.74	88.5	0.0	DOL SLTY MOD SHLY SL ANHY SL CALC FRAC TR PPP
368	2811	2812	0.05	0.05	0.04	4.7	2.80	87.3	0.0	DOL SL SLTY TR CALC TR ANHY TR PPP
369	2812	2813	0.03	0.03	0.01	1.3	2.80	96.5	0.0	DOL SL SLTY TR CALC TR ANHY TR PPP
370	2813	2814	0.05	0.03	0.01	2.9	2.79	89.3	0.0	DOL SL SLTY TR CALC TR ANHY TR PPP
371	2814	2815	0.16	0.15	0.09	12.3	2.83	87.1	0.0	DOL MOD SLTY ANHY INCL GRDG TO SH SCT POR
372	2815	2816	9.91	6.29	0.01	9.4	2.79	86.7	0.0	SH GYGN–LTGY SL DOL ANHY INCL
373	2816	2817	7.03	3.58	0.06	9.8	2.78	77.4	0.0	SH GYGN–LTGY SL DOL ANHY INCL
374	2817	2818	21.63	18.62	1.23	8.7	2.77	92.0	0.0	SH GY–GYGN SLTY ANHY INCL NON CALC
375	2818	2819	TBFA	Kplug	TBFA	12.4	2.77	92.3	0.0	SH GY–GYGN SLTY ANHY INCL NON CALC
376	2819	2820	TBFA	Kplug	TBFA	11.6	2.74	86.3	0.0	SH GY–GYGN SLTY ANHY INCL NON CALC
377	2820	2821	0.03	0.03	0.01	2.8	2.67	94.7	0.0	LS SLTY TR SDY GRDG TO SH V SIL TR PPP
378	2821	2822	11.03	1.34	0.06	1.6	2.66	93.9	0.0	LS SLTY TR SDY SL SHLY V SIL TR PPP
379	2822	2823	7.65	4.26	0.01	5.8	2.69	94.2	0.0	LS MOD SLTY TR SDY SL SHLY MOD SIL TR PPP
380	2823	2824	40.28	28.03	0.37	7.8	2.73	91.7	0.0	LS MOD SLTY TR ANHY SL SHLY SL SIL TR PPP
381	2824	2825	0.03	0.03	0.01	2.2	2.62	93.1	0.0	LS MOD SLTY TR FOS SH PTG TR ANHY V SIL TR PPP
382	2825	2826	0.03	0.02	0.01	0.7	2.66	96.9	0.0	LS MOD SLTY TR FOS V SIL TR PPP
383	2826	2827	9.04	5.78	0.02	6.1	2.69	97.0	0.0	LS MOD SLTY SL SHLY SL SIL TR PPP

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
384	2827	2828	0.11	Kplug	3.05	8.7	2.71	87.9	0.0	SH GY–GYBLK SME BLK SLTY TR SDY SL CALC
385	2828	2829	TBFA	Kplug	TBFA	9.9	2.70	92.9	0.0	SH GY–GYBLK SME BLK SLTY TR SDY SL CALC
386	2829	2830	TBFA	Kplug	16.10	10.9	2.69	88.2	0.0	SH GY–GYBLK SLTY TR SDY SL CALC
387	2830	2831	TBFA	Kplug	TBFA	12.4	2.68	76.2	0.0	SH GY–GYBLK SLTY TR SDY SL CALC
388	2831	2832	TBFA	Kplug	TBFA	9.9	2.68	90.7	0.0	SH GY–GYBLK SLTY TR SDY SL CALC
389	2832	2833	TBFA	Kplug	TBFA	11.9	2.67	83.6	0.0	SH GY–GYBLK SME BLK SLTY TR SDY SL CALC
390	2833	2834	TBFA	Kplug	TBFA	9.4	2.69	95.8	0.0	SH GY–GYBLK SME BLK SLTY TR SDY SL CALC
391	2834	2835	TBFA	Kplug	TBFA	11.5	2.68	74.3	0.0	SH GY–GYBLK SME BLK SLTY TR SDY SL CALC
392	2835	2836	TBFA	Kplug	0.03	7.9	2.67	81.2	0.0	SH GY–GYBLK SME BLK SLTY TR SDY SL CALC
393	2836	2837	0.94	Kplug	0.02	8.5	2.65	92.3	0.0	SH GY–GYBLK SLTY TR SDY SL CALC
394	2837	2838	0.03	0.02	0.01	8.5	2.65	81.7	0.0	LS MOD SLTY SME SLTY LAM SH PTG TR PPP
395	2838	2839	4.25	1.13	0.02	7.2	2.67	93.9	0.0	LS MOD SLTY SME SLTY LAM SH PTG TR PPP
396	2839	2840	2.25	1.54	0.02	6.4	2.65	96.4	0.0	LS MOD SLTY SME SLTY LAM SH PTG TR PPP
397	2840	2841	0.02	Kplug	0.01	11.1	2.64	86.1	0.0	SH GYBLK MOD SLTY SDY GRDG TO SS MOD CALC
398	2841	2842	0.02	Kplug	<0.01	11.0	2.66	83.1	0.0	SH GYBLK MOD SLTY SDY GRDG TO SS MOD CALC
399	2842	2843	0.02	Kplug	<0.01	10.2	2.66	85.0	0.0	SH GYBLK MOD SLTY SDY GRDG TO SS MOD CALC
400	2843	2844	0.03	Kplug	<0.01	10.5	2.65	85.3	0.0	SH GYBLK MOD SLTY SDY GRDG TO SS MOD CALC
401	2844	2845	1.96	Kplug	<0.01	10.8	2.66	83.7	0.0	SH GYBLK MOD SLTY SDY GRDG TO SS MOD CALC
402	2845	2846	1.05	0.97	0.08	5.2	2.68	98.1	0.0	LS SLTY SHLY GRDG TO SH SL SDY TR FOS TR PPP
403	2846	2847	0.02	Kplug	0.01	3.9	2.66	97.6	0.0	LS SLTY SHLY GRDG TO SH SL SDY TR FOS TR PPP
404	2847	2848	0.95	0.58	<0.01	3.2	2.66	96.7	0.0	LS SLTY SHLY GRDG TO SH SL SDY TR FOS TR PPP
405	2848	2849	0.01	0.01	0.01	1.1	2.66	98.7	0.0	LS SLTY SHLY GRDG TO SH SL SDY TR FOS TR PPP
406	2849	2850	0.03	0.03	<0.01	1.8	2.67	98.8	0.0	LS SLTY SHLY GRDG TO SH SL SDY TR FOS TR PPP
			CORE # 11	2791 – 2850	COUNCIL GROVE "A"					
407	2850	2851	0.64	0.07	0.02	10.1	2.75	82.9	0.0	SH GY–LTGYBRN SLTY TR SDY ANHY INCL MOD CALC
408	2851	2852	2.27	0.24	0.01	12.4	2.78	66.1	0.0	SH GY–LTGYBRN SLTY TR SDY ANHY INCL MOD CALC
409	2852	2853	0.05	0.04	0.02	13.8	2.79	88.7	0.0	SH BRNGY–LTBRN SLTY MOD SDY NON CALC
410	2853	2854	0.04	0.04	0.01	9.1	2.82	86.5	0.0	SH BRNGY–LTBRN SLTY SL SDY ANHY INCL NON CALC
411	2854	2855	0.06	0.03	0.02	9.5	2.77	84.2	0.0	SH BRNGY–LTBRN SLTY SL SDY ANHY INCL NON CALC
412	2855	2856	0.140	0.078	0.007	7.6	2.78	96.3	0.0	RDBD SLTY TR SDY ANHY INCL NON CALC
413	2856	2857	7.894	PLUG	0.017	10.2	2.78	90.5	0.0	RDBD SLTY MOD SDY ANHY INCL NON CALC
414	2857	2858	0.26	0.17	0.21	10.0	2.71	86.4	0.0	SS VFGR SLTY ANHY INCL NON CALC INTGR POR
415	2858	2859	0.13	0.12	0.08	13.7	2.68	73.3	0.0	SS VFGR SLTY ANHY INCL NON CALC INTGR POR

ANADARKO PETROLEUM
Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
416	2859	2860	0.12	0.12	0.02	13.7	2.71	68.6	0.0	SS VFGR SLTY ANHY INCL NON CALC INTGR POR
417	2860	2861	0.04	0.04	0.01	7.7	2.71	75.0	0.0	SS VFGR SLTY ANHY INCL NON CALC INTGR POR
418	2861	2862	0.07	0.05	0.01	8.0	2.70	80.2	0.0	SS VFGR SLTY ANHY INCL NON CALC INTGR POR
419	2862	2863	10.156	8.451	0.230	7.6	2.74	97.4	0.0	RDBD SLTY TR SDY SL ANHY SL CALC
420	2863	2864	17.944	2.273	0.482	10.7	2.73	96.1	0.0	RDBD SLTY SL SDY TR ANHY NON CALC
421	2864	2865	0.04	0.03	0.01	2.7	2.66	98.5	0.0	LS SL SLTY SL–MOD SIL TR FOS TR PPP
422	2865	2866	0.94	0.42	0.04	7.2	2.71	54.3	0.0	LS SL SLTY SL–TR SIL SL SHLY TR FOS TR PPP
423	2866	2867	2.29	2.24	0.24	11.2	2.74	37.8	0.0	LS SL SLTY SL DOL SL SIL SL ANHY TR FOS SCT PPP
424	2867	2868	0.06	0.05	0.02	4.6	2.71	50.0	0.0	LS SL SLTY SL–TR SIL TR FOS TR PPP
425	2868	2869	0.09	0.09	0.06	6.1	2.72	36.9	0.0	LS SL SLTY SL–TR SIL TR FOS TR PPP
426	2869	2870	0.11	0.06	0.06	3.7	2.75	60.3	0.0	LS SL SLTY SL–TR SIL TR FOS TR PPP
427	2870	2871	0.05	0.04	0.01	3.3	2.70	77.5	0.0	LS SL SLTY SL–TR SIL TR FOS TR PPP
428	2871	2872	0.05	0.05	0.01	6.6	2.76	86.4	0.0	LS MOD SLTY TR SIL ANHY INCL TR PPP
429	2872	2873	0.07	0.06	0.01	5.8	2.71	86.6	0.0	LS SL–MOD SLTY TR SIL TR ANHY TR PPP
430	2873	2874	0.11	0.09	0.04	6.1	2.73	59.1	0.0	LS SL SLTY TR SIL TR ANHY TR PPP
431	2874	2875	0.39	0.15	0.04	8.1	2.69	84.3	0.0	LS SL SLTY TR SIL TR ANHY TR PPP
432	2875	2876	0.12	0.05	0.06	7.1	2.71	62.3	0.0	LS SL SLTY TR SIL TR ANHY TR PPP
433	2876	2877	1.07	0.53	0.99	11.1	2.70	54.2	0.0	LS SL SLTY TR SIL TR ANHY FRAC SCT PPP
434	2877	2878	0.76	0.74	0.58	11.2	2.73	47.4	0.0	LS SL SLTY TR SIL TR ANHY SCT PPP
435	2878	2879	0.66	0.63	0.26	11.4	2.71	54.9	0.0	LS SL SLTY TR SIL TR ANHY SCT PPP
436	2879	2880	0.07	0.07	0.04	7.9	2.71	79.9	0.0	LS SL SLTY TR SIL TR ANHY TR PPP
437	2880	2881	0.06	Kplug	0.10	12.9	2.69	80.3	0.0	SH GNGY–GN SLTY NON CALC
438	2881	2882	0.28	PLUG	N/A	7.4	2.71	82.0	0.0	SH GY–GYBLK SLTY TR SDY NON CALC
439	2882	2883	0.07	Kplug	0.09	12.2	2.80	97.4	0.0	SH GYBRN–BRNGN MOD SLTY SL SDY NON CALC
			CORE # 12	2850 – 2882.5		COUNCIL GROVE "B–1"				
440	2883	2884	TBFA	TBFA	*11.519	8.1	2.74	97.4	0.0	RDBD SL SLTY TR SDY SHLY SL CALC
441	2884	2885	0.317	PLUG	N/A	8.1	2.72	93.3	0.0	RDBD SL SLTY TR SDY SHLY SL CALC
	2885	2886			NO ANALYSIS – TBFA					RDBD SL SLTY TR SDY SHLY SL CALC
442	2886	2887	4.290	0.347	0.015	8.4	2.71	95.5	0.0	RDBD MOD SLTY SL SDY TR SHLY SL CALC
443	2887	2888	0.957	0.571	0.014	6.0	2.70	97.4	0.0	RDBD MOD SLTY SL SDY TR SHLY SL CALC
444	2888	2889	5.84	5.62	5.76	6.6	2.73	97.5	0.0	LS MOD SLTY SL SDY ANHY INCL FRAC TR PPP
445	2889	2890	329.68	Kplug	11.20	11.9	2.75	92.8	0.0	LS MOD SLTY SL SDY LG ANHY INCL FRAC SCT PPP
446	2890	2891	4.54	3.76	3.65	14.3	2.70	53.0	0.0	LS SL SLTY TR SDY SL ANHY TR FOS SCT PPP

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
447	2891	2892	25.59	23.36	8.16	11.7	2.72	44.4	0.0	LS SL SLTY TR–SL SDY SL ANHY TR FOS SCT PPP
448	2892	2893	67.46	Kplug	126.21	11.1	2.72	83.5	0.0	LS SL SLTY TR–SL SDY SL ANHY TR FOS SCT PPP
449	2893	2894	13.31	13.26	14.74	9.9	2.72	45.1	0.0	LS SL SLTY TR SDY TR ANHY SL FOS SCT PPP
450	2894	2895	2.56	2.11	1.03	8.8	2.72	43.7	0.0	LS SL SLTY TR SDY TR ANHY SL FOS SCT–TR PPP
451	2895	2896	0.13	0.07	0.07	9.5	2.72	63.7	0.0	LS SL SLTY TR SDY TR ANHY SL FOS SCT–TR PPP
452	2896	2897	2.40	0.53	4.33	13.9	2.71	77.9	0.0	LS SL SLTY TR SDY SL ANHY TR FOS SCT PPP
453	2897	2898	0.49	0.39	0.46	12.3	2.70	72.1	0.0	LS SL SLTY TR SDY SL ANHY TR FOS SCT PPP
454	2898	2899	0.32	0.19	0.10	10.4	2.71	86.1	0.0	LS SL SLTY TR SDY SL ANHY TR FOS STYL SCT PPP
	2899	2900	NO ANALYSIS – TBFA							LS SL SLTY TR SDY SL ANHY TR FOS CLY SCT PPP
456	2900	2901	0.04	0.01	0.01	2.2	2.69	62.7	0.0	LS SL–MOD SLTY TR ANHY TR PPP–DNS
	2901	2902	NO ANALYSIS – TBFA							LS SL SLTY TR SDY SL ANHY TR FOS CLY SCT PPP
			CORE # 13 2882.5 – 2902 COUNCIL GROVE "B–2"							
458	2902	2903	1.456	Kplug	0.013	8.7	2.76	96.1	0.0	RDBD SL SLTY TR SDY SHLY SL CALC
459	2903	2904	1.349	0.102	0.012	6.0	2.69	95.9	0.0	RDBD SL SLTY TR SDY SHLY TR ANHY SL CALC
460	2904	2905	30.433	2.106	2.036	6.7	2.74	95.0	0.0	RDBD SL–MOD SLTY TR SDY MOD SHLY SL CALC
461	2905	2906	78.847	4.019	0.040	8.1	2.74	99.0	0.0	RDBD SL–MOD SLTY TR SDY MOD SHLY SL CALC
462	2906	2907	0.036	0.036	0.029	5.8	2.69	97.5	0.0	RDBD SL–MOD SLTY TR SDY MOD SHLY SL CALC
463	2907	2908	0.186	0.173	0.088	12.4	2.76	92.8	0.0	RDBD MOD SLTY SL SDY TR SHLY NON CALC
464	2908	2909	0.068	0.050	0.006	8.2	2.66	97.2	0.0	SS VFGR RDBD MOD SLTY MOD CALC TR INTGR POR
465	2909	2910	0.044	0.039	0.021	7.2	2.66	92.8	0.0	SS VFGR RDBD MOD SLTY MOD CALC TR INTGR POR
466	2910	2911	0.156	0.125	0.083	9.5	2.71	94.9	0.0	RDBD MOD SLTY SL SDY TR SHLY SL CALC
467	2911	2912	0.069	0.068	0.066	8.6	2.71	95.1	0.0	RDBD MOD SLTY SL SDY TR SHLY SL CALC
468	2912	2913	0.033	0.033	0.008	8.1	2.70	98.1	0.0	RDBD MOD SLTY SL SDY TR SHLY SL CALC
469	2913	2914	32.48	15.11	6.94	14.9	2.75	63.2	0.0	LS SL SLTY MOD CLY TR ANHY FRAC SCT POR
470	2914	2915	3.96	Kplug	2.47	13.1	2.76	58.1	0.0	LS SL SLTY SL–MOD CLY SL ANHY SCT POR
471	2915	2916	0.51	0.37	0.29	8.8	2.73	62.2	0.0	LS SL SLTY SL ANHY TR FOS SCT–TR PPP
472	2916	2917	0.06	0.06	0.07	6.8	2.72	57.3	0.0	LS SL SLTY SL ANHY TR FOS SCT–TR PPP
473	2917	2918	0.80	0.14	0.02	7.1	2.72	60.9	0.0	LS SL SLTY SL ANHY TR FOS STYL SCT–TR PPP
474	2918	2919	15.086	PLUG	N/A	15.4	2.78	98.6	0.0	RDBD SL SLTY TR SDY SL SHLY SL CALC
475	2919	2920	4.436	PLUG	N/A	12.8	2.73	97.0	0.0	RDBD SL SLTY TR SDY SL SHLY SL CALC
476	2920	2921	0.318	PLUG	N/A	12.1	2.72	97.4	0.0	RDBD SL SLTY TR SDY SL SHLY SL CALC
			CORE # 14 2902 – 2921 COUNCIL GROVE "B–3"							
477	2921	2922	2.638	2.534	1.052	17.6	2.69	88.9	0.0	RDBD SL–MOD SLTY SDY GRDG TO SS NON CALC

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
478	2922	2923	1.434	1.246	0.635	15.8	2.71	96.0	0.0	RDBD SL–MOD SLTY SDY GRDG TO SS NON CALC
479	2923	2924	8.919	Kplug	0.011	10.6	2.70	97.3	0.0	RDBD MOD SLTY MOD SDY SHLY NON CALC
480	2924	2925	0.041	0.034	0.007	7.0	2.71	90.8	0.0	RDBD MOD SLTY MOD SDY MOD SHLY NON CALC
481	2925	2926	0.05	0.03	<0.01	4.8	2.68	68.2	0.0	SS VFGR MOD SLTY MOD–V CALC TR INTGR POR
482	2926	2927	0.024	0.015	0.014	5.0	2.67	86.2	0.0	RDBD SL SLTY TR SDY MOD SHLY SL–MOD CALC
483	2927	2928	0.026	0.025	0.014	5.6	2.67	91.8	0.0	RDBD SL SLTY TR SDY MOD SHLY SL–MOD CALC
484	2928	2929	0.080	0.050	0.008	7.5	2.69	88.1	0.0	RDBD SL SLTY TR SDY MOD SHLY SL–MOD CALC
485	2929	2930	TBFA	PLUG	N/A	12.9	2.75	94.3	0.0	RDBD SL SLTY TR SDY MOD SHLY SL–MOD CALC
486	2930	2931	5.54	4.30	6.96	12.9	2.71	82.7	0.0	LS MOD SLTY SL–MOD SDY SL CLY TR FOS SCT POR
487	2931	2932	71.48	Kplug	12.06	13.7	2.71	93.6	0.0	LS SL–MOD SLTY SL SDY SL CLY TR FOS SCT POR
488	2932	2933	17.32	16.26	0.98	11.6	2.70	40.8	0.0	LS SL SLTY SLTY LAM SL FOS SCT PPP
489	2933	2934	14.31	13.41	17.20	13.3	2.72	45.9	0.0	LS SL SLTY SL ANHY SL FOS SCT PPP
490	2934	2935	27.61	5.05	36.94	13.3	2.68	49.9	0.0	LS SL SLTY SL ANHY SL FOS TR CLY SCT PPP
491	2935	2936	5.31	1.29	5.84	10.9	2.68	72.5	0.0	LS SL SLTY SL ANHY SL FOS TR CLY SCT PPP
492	2936	2937	0.92	0.48	0.01	3.0	2.69	65.4	0.0	LS SL SLTY STYL SH PTG TR FOS TR PPP–DNS
493	2937	2938	0.11	Kplug	0.02	13.8	2.71	95.7	0.0	LS MOD SLTY MOD SHLY SL CLY SCT POR
	2938	2939	NO ANALYSIS – TBFA							RDBD SL SLTY TR SDY SHLY SL CALC
CORE # 15 2921 – 2939 COUNCIL GROVE "B–4"										
494	2939	2940	TBFA	PLUG	N/A	15.7	2.73	97.3	0.0	RDBD SL SLTY TR SDY SHLY SL CALC
495	2940	2941	TBFA	PLUG	N/A	13.0	2.74	93.5	0.0	RDBD SL SLTY TR SDY SHLY SL CALC
496	2941	2942	TBFA	PLUG	N/A	14.8	2.81	93.0	0.0	RDBD SL SLTY TR SDY SHLY SL CALC
497	2942	2943	41.74	11.47	35.96	5.8	2.72	65.4	0.0	LS MOD SLTY MOD SHLY SL CLY SCT POR
498	2943	2944	TBFA	TBFA	TBFA	10.9	2.72	93.1	0.0	LS MOD SLTY SHLY MOD FOS SL CLY SCT POR
499	2944	2945	252.74	248.91	95.69	5.2	2.70	96.2	0.0	LS MOD SLTY SHLY TR FOS SL CLY TR POR
500	2945	2946	0.13	Kplug	TBFA	9.5	2.69	92.4	0.0	LS MOD SLTY SHLY SL CLY SL FOS SCT POR
501	2946	2947	74.72	74.50	11.84	7.0	2.70	94.4	0.0	LS MOD SLTY SHLY SL CLY SL FOS TR POR
502	2947	2948	8.96	7.96	1.38	3.7	2.72	97.0	0.0	LS MOD SLTY SHLY SL CLY SL FOS TR POR
503	2948	2949	2.97	2.58	1.02	11.6	2.70	75.5	0.0	LS SL SLTY STYL TR FOS TR ANHY SCT PPP
504	2949	2950	65.24	64.26	42.53	14.1	2.70	55.1	0.0	LS SL SLTY STYL TR FOS TR ANHY SCT PPP
505	2950	2951	70.42	53.77	2389.44	11.4	2.71	78.7	0.0	LS SL–MOD SLTY SL CLY SL FOS SCT POR
506	2951	2952	2568.40	1494.05	2250.64	16.0	2.71	94.8	0.0	LS SL–MOD SLTY SL CLY SL FOS SCT POR
507	2952	2953	232.99	184.53	18.02	9.8	2.78	78.7	0.0	LS SL SLTY ANHY INCL FOS SCT PPP
508	2953	2954	TBFA	TBFA	TBFA	10.8	2.75	86.2	0.0	LS SL SLTY ANHY INCL FOS SCT PPP

ANADARKO PETROLEUM

Well: FLOWER A–1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
509	2954	2955	383.11	350.05	175.42	11.3	2.72	60.4	0.0	LS SL SLTY SL ANHY FOS SCT PPP
510	2955	2956	TBFA	PLUG	N/A	13.4	2.71	51.2	0.0	LS SL SLTY SL ANHY SL CLY SL FOS FRAC SCT PPP
511	2956	2957	0.04	PLUG	N/A	6.8	2.72	70.9	0.0	LS SL SLTY SL ANHY SL CLY SL FOS FRAC TR PPP
512	2957	2958	0.02	PLUG	N/A	5.8	2.70	82.8	0.0	LS SL SLTY SL ANHY SL CLY SL FOS FRAC TR PPP
			CORE # 16 2939 – 2958 COUNCIL GROVE "B–5"							
	2958	2959		LOST CORE						NOT RECOVERED
	2959	2960		LOST CORE						NOT RECOVERED
	2960	2961		LOST CORE						NOT RECOVERED
	2961	2962		LOST CORE						NOT RECOVERED
	2962	2963		LOST CORE						NOT RECOVERED
	2963	2964		LOST CORE						NOT RECOVERED
	2964	2965		LOST CORE						NOT RECOVERED
	2965	2966		LOST CORE						NOT RECOVERED
	2966	2967		LOST CORE						NOT RECOVERED
	2967	2968		LOST CORE						NOT RECOVERED
513	2968	2969	0.157	PLUG	N/A	10.8	2.75	85.2	0.0	RDBD SLTY SL SDY TR SHLY TR CALC
514	2969	2970	TBFA	PLUG	N/A	10.6	2.73	96.0	0.0	RDBD SLTY SL SDY TR SHLY TR CALC
515	2970	2971	TBFA	PLUG	N/A	10.8	2.75	96.4	0.0	RDBD SLTY SL SDY TR SHLY TR CALC
516	2971	2972	TBFA	TBFA	TBFA	12.2	2.78	97.8	0.0	RDBD SLTY SL SDY TR SHLY TR CALC
517	2972	2973	14.563	7.241	5.838	12.1	2.77	98.0	0.0	RDBD SLTY SL SDY TR SHLY TR CALC
518	2973	2974	TBFA	TBFA	TBFA	8.7	2.70	97.2	0.0	RDBD SL–MOD SLTY TR SDY SHLY SL CALC
519	2974	2975	26.026	1.682	1.510	7.1	2.72	95.1	0.0	RDBD SL–MOD SLTY TR SDY SHLY SL–MOD CALC
520	2975	2976	4.363	Kplug	*0.165	9.9	2.74	94.4	0.0	RDBD SL–MOD SLTY TR SDY SHLY SL CALC
521	2976	2977	56.426	27.245	44.996	11.3	2.76	96.6	0.0	RDBD SL–MOD SLTY TR SDY SHLY SL CALC
522	2977	2978	84.191	48.539	34.968	13.9	2.76	96.0	0.0	RDBD SL–MOD SLTY TR SDY SHLY SL CALC
			CORE # 17 2958 – 2978 COUNCIL GROVE "B–5 SHALE"							
523	2978	2979	0.630	0.449	0.008	7.3	2.68	98.6	0.0	RDBD SL SLTY SL SDY SME LS TR SHLY
524	2979	2980	14.873	0.988	0.002	8.1	2.70	96.7	0.0	RDBD SL–MOD SLTY TR SDY SHLY TR CALC
525	2980	2981	15.290	2.723	0.082	9.2	2.71	93.7	0.0	RDBD SL–MOD SLTY TR SDY SHLY TR CALC
526	2981	2982	0.158	Kplug	0.008	6.2	2.71	98.3	0.0	RDBD SL–MOD SLTY TR SDY SHLY TR CALC
527	2982	2983	0.113	PLUG	N/A	13.4	2.77	99.6	0.0	RDBD SL–MOD SLTY TR SDY SHLY TR CALC
528	2983	2984	2.916	PLUG	N/A	9.0	2.73	99.3	0.0	RDBD SL–MOD SLTY TR SDY SHLY TR CALC
529	2984	2985	TBFA	PLUG	N/A	11.2	2.75	99.3	0.0	RDBD SL–MOD SLTY TR SDY SHLY TR CALC

ANADARKO PETROLEUM

Well: FLOWER A-1
County: STEVENS CO., KANSAS
FULL DIAMETER CORE ANALYSIS

Date: DECEMBER 16, 1994
Location: 1320 FSL, 1250 FWL, SEC. 25, T31S, R38W
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD) Kmax	K90	Kvert	POR %	GRAIN DENS	% FLUIDS H2O	OIL	LITHOLOGY
530	2985	2986	0.05	0.04	0.03	3.8	2.75	75.5	0.0	LS SL SLTY SL SHLY SL SIL TR FOS TR PPP
531	2986	2987	0.24	0.12	0.03	6.0	2.71	85.3	0.0	LS SL SLTY TR SIL TR FOS TR PPP
532	2987	2988	0.17	0.16	0.10	9.3	2.75	83.7	0.0	LS SL SLTY TR SIL TR FOS TR-SCT PPP
533	2988	2989	0.03	0.03	0.03	4.1	2.73	58.3	0.0	LS SL SLTY SL SHLY SL SIL SL FOS TR PPP
534	2989	2990	0.50	0.04	<0.01	2.4	2.70	96.9	0.0	LS SL SLTY SL SHLY SL SIL SL FOS TR PPP
535	2990	2991	0.01	0.01	<0.01	1.0	2.69	98.5	0.0	LS SL SLTY SL SHLY SL SIL FOS TR PPP
536	2991	2992	0.02	0.02	0.01	2.3	2.68	77.9	0.0	LS SL SLTY SL SHLY SL SIL FOS TR PPP
537	2992	2993	TBFA	TBFA	TBFA	7.3	2.76	95.1	0.0	LS SL-MOD SLTY SL SHLY SL SIL SL FOS TR PPP
538	2993	2994	0.30	0.20	<0.01	1.4	2.66	90.6	0.0	LS SL SLTY SL SHLY SL-MOD SIL FOS TR PPP
539	2994	2995	0.20	0.19	<0.01	3.2	2.70	96.5	0.0	LS SL SLTY STYL SLTY LAM TR FOS TR PPP
540	2995	2996	0.27	0.02	<0.01	4.1	2.70	91.1	0.0	LS SL SLTY TR SLTY LAM SL FOS SL SIL TR PPP
541	2996	2997	0.17	0.10	<0.01	1.4	2.68	95.3	0.0	LS SL SLTY SL SHLY SL-MOD SIL FOS TR PPP
542	2997	2998	0.08	0.03	<0.01	2.3	2.66	95.7	0.0	LS SL SLTY SL SHLY SL-MOD SIL FOS TR PPP
543	2998	2999	0.19	0.18	<0.01	3.3	2.69	98.6	0.0	LS SL SLTY SL SHLY SL SIL FOS TR PPP
544	2999	3000	1.25	0.34	<0.01	4.0	2.69	91.5	0.0	LS SL SLTY SL SHLY SL SIL FOS TR PPP
545	3000	3001	0.11	0.03	<0.01	4.0	2.70	92.0	0.0	LS SL SLTY SL SHLY SL SIL FOS TR PPP
546	3001	3002	0.36	0.13	<0.01	2.4	2.67	82.4	0.0	LS SL SLTY SL SHLY SL-MOD SIL FOS TR PPP
547	3002	3003	0.09	0.03	0.01	2.1	2.69	58.6	0.0	LS SL SLTY SL SHLY SL SIL FOS TR PPP
548	3003	3004	0.14	0.05	0.01	2.1	2.69	88.3	0.0	LS SL SLTY SL SHLY SL SIL FOS TR PPP
549	3004	3005	0.02	0.01	<0.01	2.4	2.68	99.6	0.0	LS SL SLTY SL SHLY SL-MOD SIL FOS TR PPP

CORE # 18 2978 - 3005 COUNCIL GROVE "C"

* - PERMEABILITY PRIOR TO EXTRACTION

ANADARKO PETROLEUM

Well: FLOWER A–1

REDBED PERMEABILITY ANALYSIS

SAMPLE NO.	DEPTH		Before Drying			After Drying		
			Kmax	K90	Kvert	Kmax	K90	Kvert
25	2465	2466	0.173	0.084	0.650	12.967	0.097	15.295
27	2467	2468	0.175	0.021	<0.001	0.264	0.089	0.104
28	2468	2469	TBFA	TBFA	TBFA	TBFA	Kplug	TBFA
97	2537	2538	0.011	0.010	0.003	0.055	Kplug	0.015
98	2538	2539	0.085	0.076	0.014	12.481	11.069	0.321
99	2539	2540	0.197	0.191	0.014	2.988	2.012	0.134
100	2540	2541	0.026	0.018	0.002	23.550	1.847	0.019
101	2541	2542	0.156	0.114	0.003	0.313	0.150	0.022
102	2542	2543	0.117	0.107	0.019	0.201	Kplug	0.013
103	2543	2544	N/A	PLUG	N/A	0.016	PLUG	N/A
104	2544	2545	0.009	0.007	0.005	0.157	0.119	0.010
105	2545	2546	TBFA	TBFA	TBFA	TBFA	Kplug	0.021
110	2550	2551	55.439	52.647	53.718	68.390	68.081	61.211
111	2551	2552	0.101	0.055	0.018	0.257	0.224	0.064
151	2592	2593	0.105	0.061	0.533	5.837	1.008	10.031
152	2593	2594	46.259	0.038	TBFA	100.032	Kplug	0.010
153	2595	2596	0.480	0.377	0.197	14.060	4.531	8.753
154	2596	2597	4.200	0.801	0.645	TBFA	Kplug	TBFA
155	2597	2598	1.420	1.091	0.272	25.138	24.915	7.165
156	2598	2599	0.647	0.616	0.123	23.828	14.995	2.086
157	2600	2601	11.307	1.088	3.215	0.888	Kplug	0.786
158	2601	2602	0.043	0.035	0.005	30.909	11.083	0.020
159	2602	2603	0.411	0.353	0.009	11.538	7.361	0.071
160	2603	2604	0.659	0.654	0.111	8.857	8.106	2.579
161	2604	2605	0.807	0.558	1.126	8.217	4.720	10.566
162	2605	2606	0.049	0.045	0.005	5.936	3.406	0.071
163	2606	2607	0.055	0.033	0.019	3.750	3.628	0.025
164	2607	2608	0.044	0.042	0.005	8.002	1.613	0.006
165	2608	2609	0.049	0.032	0.009	0.064	0.054	0.017
166	2609	2610	0.137	0.084	0.034	0.127	0.125	0.056
167	2610	2611	0.050	0.033	0.004	0.086	0.063	0.010
168	2611	2612	0.222	0.206	0.222	0.433	0.415	0.254
169	2612	2613	0.229	0.221	0.163	0.483	0.467	0.296
303	2746	2747	1.7246	0.434	0.449	5.613	5.364	11.400
304	2747	2748	6.638	4.536	0.894	12.495	6.395	5.598
305	2748	2749	0.034	0.022	0.004	0.132	0.128	0.008
306	2749	2750	N/A	PLUG	N/A	1.975	PLUG	N/A
307	2750	2751	N/A	PLUG	N/A	0.131	PLUG	N/A
309	2752	2753	0.025	0.025	0.008	1.285	0.130	0.001
310	2753	2754	0.032	0.024	0.035	0.348	0.171	0.001
311	2754	2755	0.340	0.052	0.013	0.026	Kplug	0.015
312	2755	2756	0.710	0.236	0.006	3.114	2.893	0.005

ANADARKO PETROLEUM
Well: FLOWER A–1
REDBED PERMEABILITY ANALYSIS

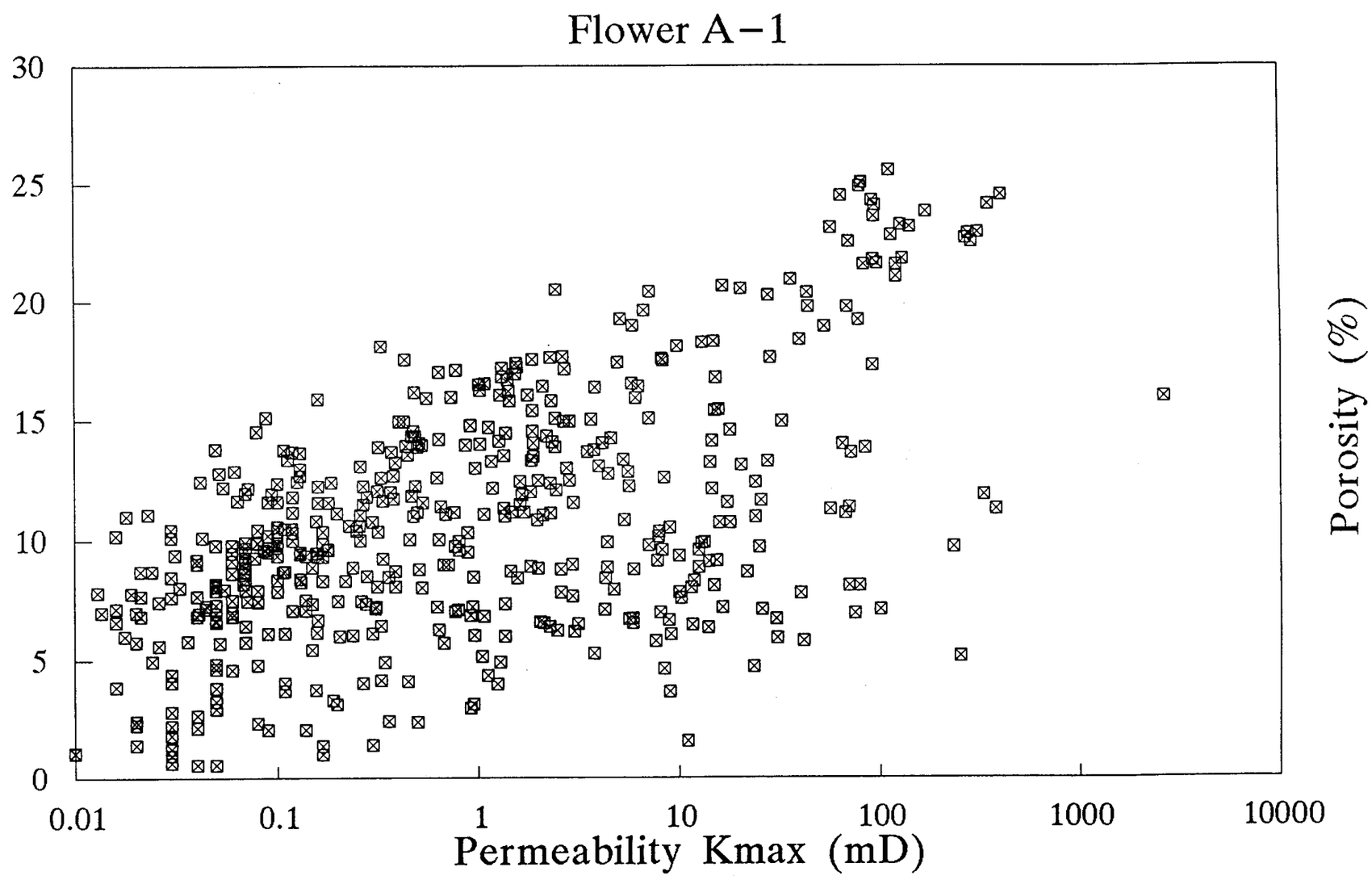
SAMPLE NO.	DEPTH		Before Drying Kmax	K90	Kvert	After Drying Kmax	K90	Kvert
313	2756	2757	0.009	0.008	0.088	1.355	0.996	0.001
314	2757	2758	TBFA	TBFA	0.020	0.078	Kplug	0.076
315	2758	2759	0.009	0.009	0.003	2.558	0.546	0.001
316	2759	2760	2.506	2.195	2.044	15.818	15.654	28.832
317	2760	2761	7.443	3.494	0.502	16.450	11.643	5.221
318	2761	2762	0.027	0.022	0.004	0.501	0.092	0.021
351	2794	2795	0.183	0.076	0.016	13.858	4.029	0.011
352	2795	2796	0.161	0.114	0.005	4.703	2.474	0.121
353	2796	2797	TBFA	TBFA	TBFA	TBFA	Kplug	TBFA
354	2797	2798	0.010	0.009	0.007	0.052	0.034	0.010
355	2798	2799	0.014	0.013	0.006	0.016	0.014	0.004
356	2799	2800	0.016	0.015	0.012	0.019	0.018	0.008
357	2800	2801	0.025	0.024	0.009	0.021	0.013	0.007
358	2801	2802	0.015	0.014	0.016	0.021	0.017	0.014
359	2802	2803	0.020	0.020	0.006	0.024	0.021	0.005
360	2803	2804	0.083	0.076	0.013	TBFA	Kplug	TBFA
361	2804	2805	0.033	0.027	0.011	0.645	0.411	0.010
362	2805	2806	0.014	0.012	0.009	0.013	0.012	0.009
363	2806	2807	0.013	0.012	0.012	0.031	0.030	0.012
364	2807	2808	0.027	0.025	0.015	0.052	0.041	0.017
365	2808	2809	0.146	0.056	0.021	0.531	0.103	0.021
366	2809	2810	0.009	0.008	0.012	0.042	0.040	0.005
412	2855	2856	0.085	0.034	0.011	0.140	0.078	0.007
413	2856	2857	N/A	PLUG	N/A	7.894	PLUG	0.017
419	2862	2863	0.902	0.529	0.022	10.156	8.451	0.230
420	2863	2864	2.668	0.628	0.023	17.944	2.273	0.482
440	2883	2884	TBFA	TBFA	11.519	TBFA	TBFA	TBFA
441	2884	2885	TBFA	PLUG	N/A	0.317	PLUG	N/A
442	2886	2887	0.052	0.053	0.005	4.290	0.347	0.015
443	2887	2888	0.250	0.153	0.005	0.597	0.571	0.014
458	2902	2903	0.909	0.718	0.005	1.456	Kplug	0.013
459	2903	2904	0.034	0.026	0.004	1.349	0.102	0.012
460	2904	2905	3.604	0.676	0.111	30.433	2.106	2.036
461	2905	2906	0.865	0.174	0.016	78.847	4.019	0.040
462	2906	2907	0.016	0.012	0.005	0.036	0.036	0.029
463	2907	2908	0.017	0.013	0.002	0.186	0.173	0.088
464	2908	2909	0.032	0.030	0.001	0.068	0.050	0.006
465	2909	2910	0.012	0.010	0.004	0.044	0.039	0.021
466	2910	2911	0.034	0.019	0.002	0.160	0.130	0.083
467	2911	2912	0.020	0.013	0.003	0.069	0.068	0.066
468	2912	2913	0.031	0.019	0.002	0.033	0.033	0.008
474	2918	2919	N/A	PLUG	N/A	15.086	PLUG	N/A

ANADARKO PETROLEUM
Well: FLOWER A–1
REDBED PERMEABILITY ANALYSIS

SAMPLE NO.	DEPTH		Before Drying Kmax	K90	Kvert	After Drying Kmax	K90	Kvert
475	2919	2920	N/A	PLUG	N/A	4.436	PLUG	N/A
476	2920	2921	N/A	PLUG	N/A	0.318	PLUG	N/A
477	2921	2922	0.193	0.184	0.068	2.638	2.534	1.052
478	2922	2923	0.106	0.039	0.012	1.434	1.246	0.635
479	2923	2924	TBFA	TBFA	0.008	8.919	Kplug	0.011
480	2924	2925	0.019	0.014	0.002	0.041	0.034	0.007
482	2926	2927	0.011	0.011	0.003	0.024	0.015	0.014
483	2927	2928	0.011	0.006	0.002	0.026	0.025	0.014
484	2928	2929	0.016	0.014	0.002	0.080	0.050	0.008
485	2929	2930	N/A	PLUG	N/A	TBFA	PLUG	N/A
494	2939	2940	N/A	PLUG	N/A	TBFA	PLUG	N/A
495	2940	2941	N/A	PLUG	N/A	TBFA	PLUG	N/A
496	2941	2942	N/A	PLUG	N/A	TBFA	PLUG	N/A
513	2968	2969	N/A	PLUG	N/A	0.157	PLUG	N/A
514	2969	2970	N/A	PLUG	N/A	TBFA	PLUG	N/A
515	2970	2971	N/A	PLUG	N/A	TBFA	PLUG	N/A
516	2971	2972	3.270	2.523	0.069	TBFA	TBFA	TBFA
517	2972	2973	0.230	0.143	0.035	14.563	7.241	5.838
518	2973	2974	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA
519	2974	2975	0.029	0.017	0.010	26.026	1.682	1.510
520	2975	2976	TBFA	TBFA	0.165	4.363	Kplug	TBFA
521	2976	2977	1.209	0.229	0.237	56.426	27.245	44.996
522	2977	2978	0.833	0.637	1.460	84.191	48.539	34.968
523	2978	2979	0.022	0.015	0.009	0.630	0.449	0.008
524	2979	2980	0.024	0.015	0.003	14.873	0.988	0.002
525	2980	2981	0.019	0.018	0.010	15.290	2.723	0.082
526	2981	2982	0.049	0.030	0.005	0.158	Kplug	0.008
527	2982	2983	N/A	PLUG	N/A	0.113	PLUG	N/A
528	2983	2984	N/A	PLUG	N/A	2.916	PLUG	N/A
529	2984	2985	N/A	PLUG	N/A	TBFA	PLUG	N/A

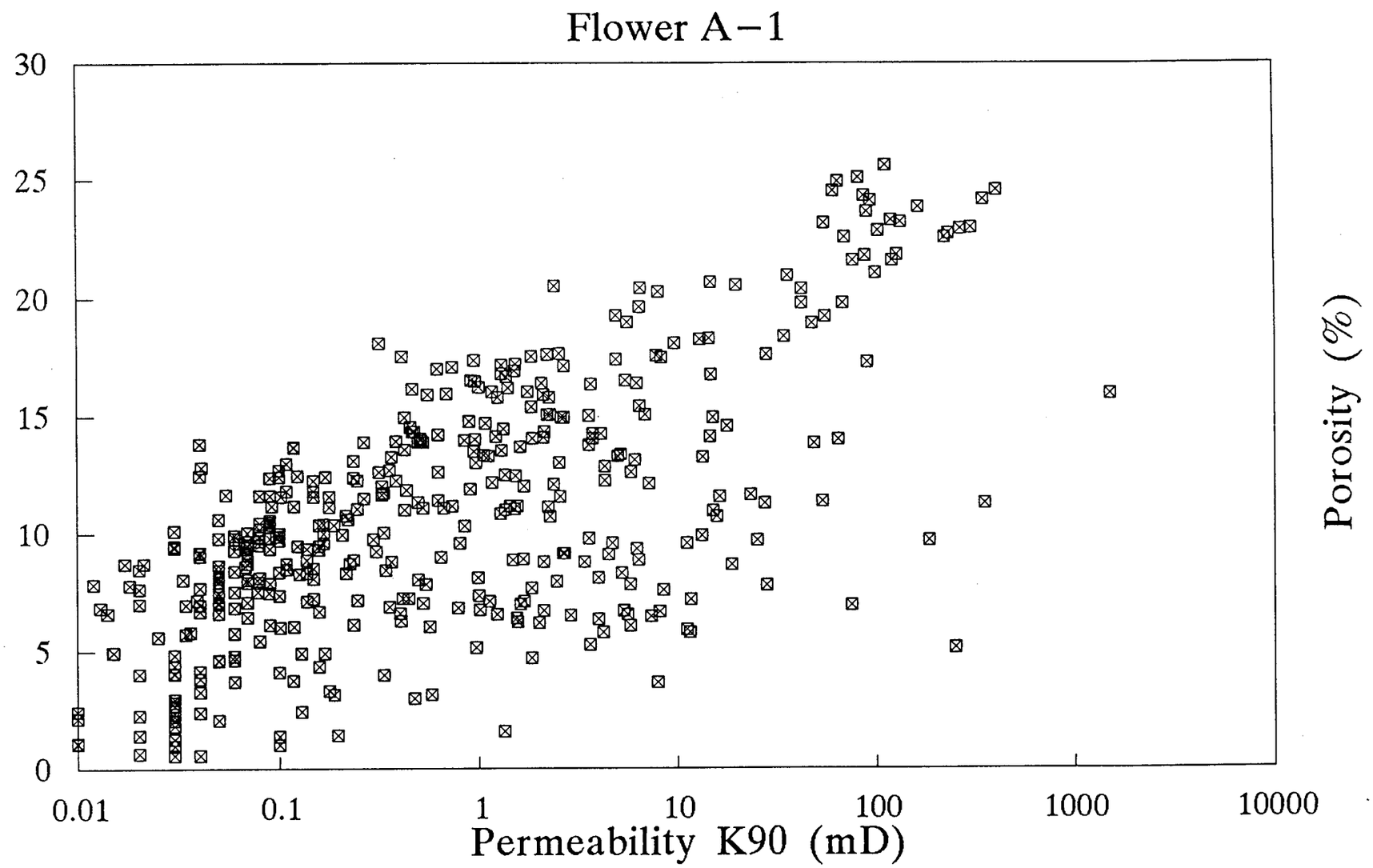
TBFA – TOO BROKEN FOR ANALYSIS

ANADARKO PETROLEUM



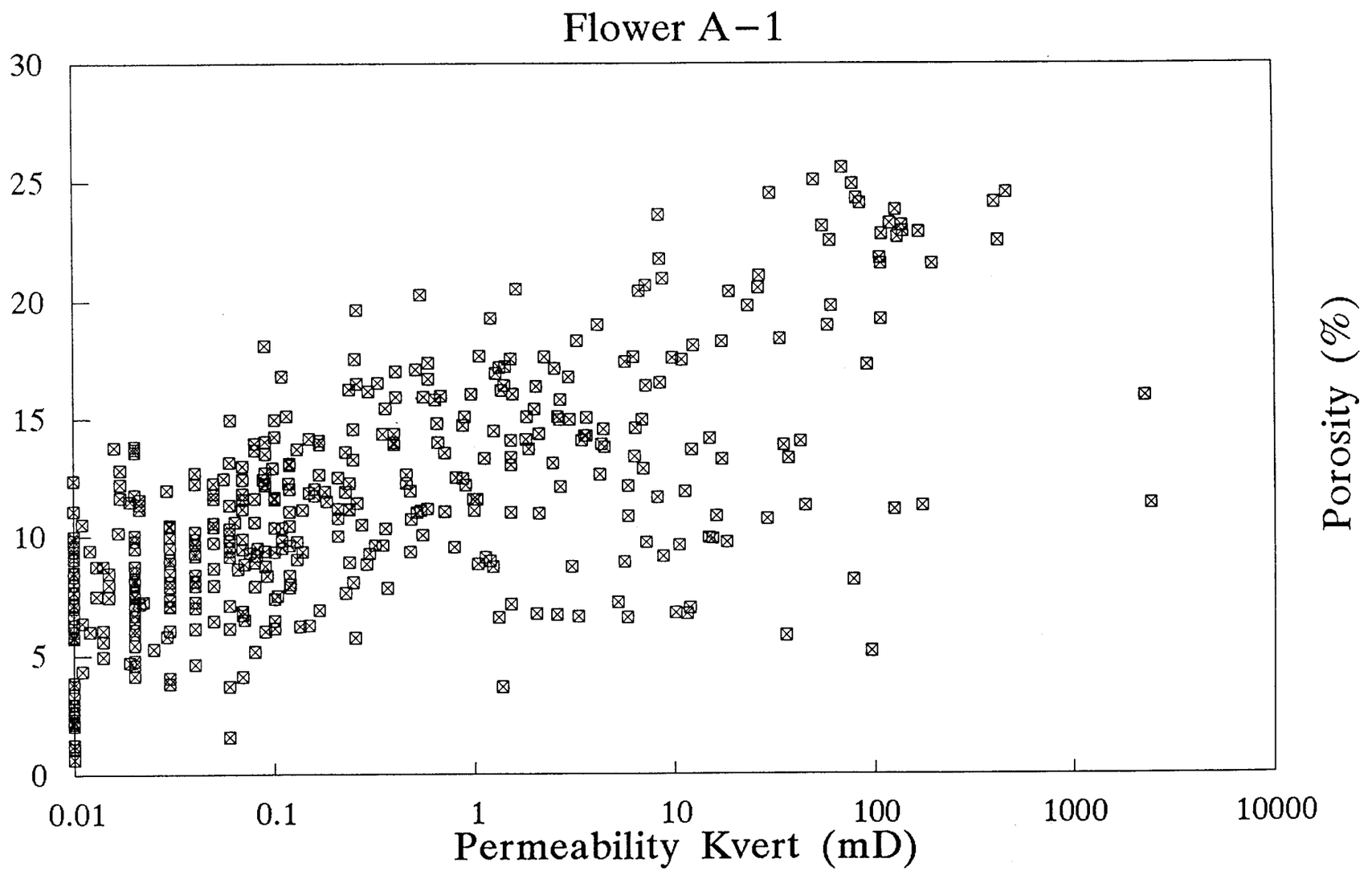
RESERVOIRS Inc.

ANADARKO PETROLEUM



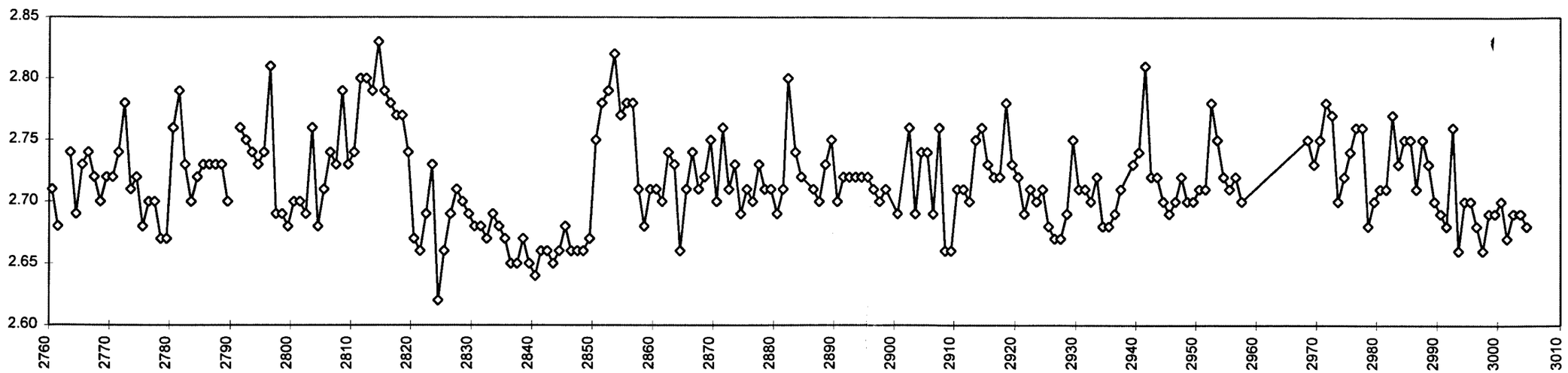
RESERVOIRS Inc.

ANADARKO PETROLEUM

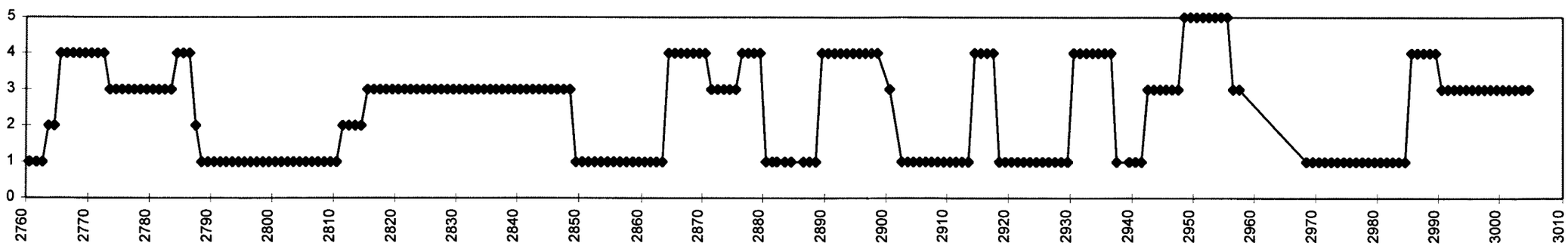


RESERVOIRS INC.

Grain Density, Council Grove, Flower A-1



Depo. Facies, Council Grove, Flower A-1



NOMENCLATURE

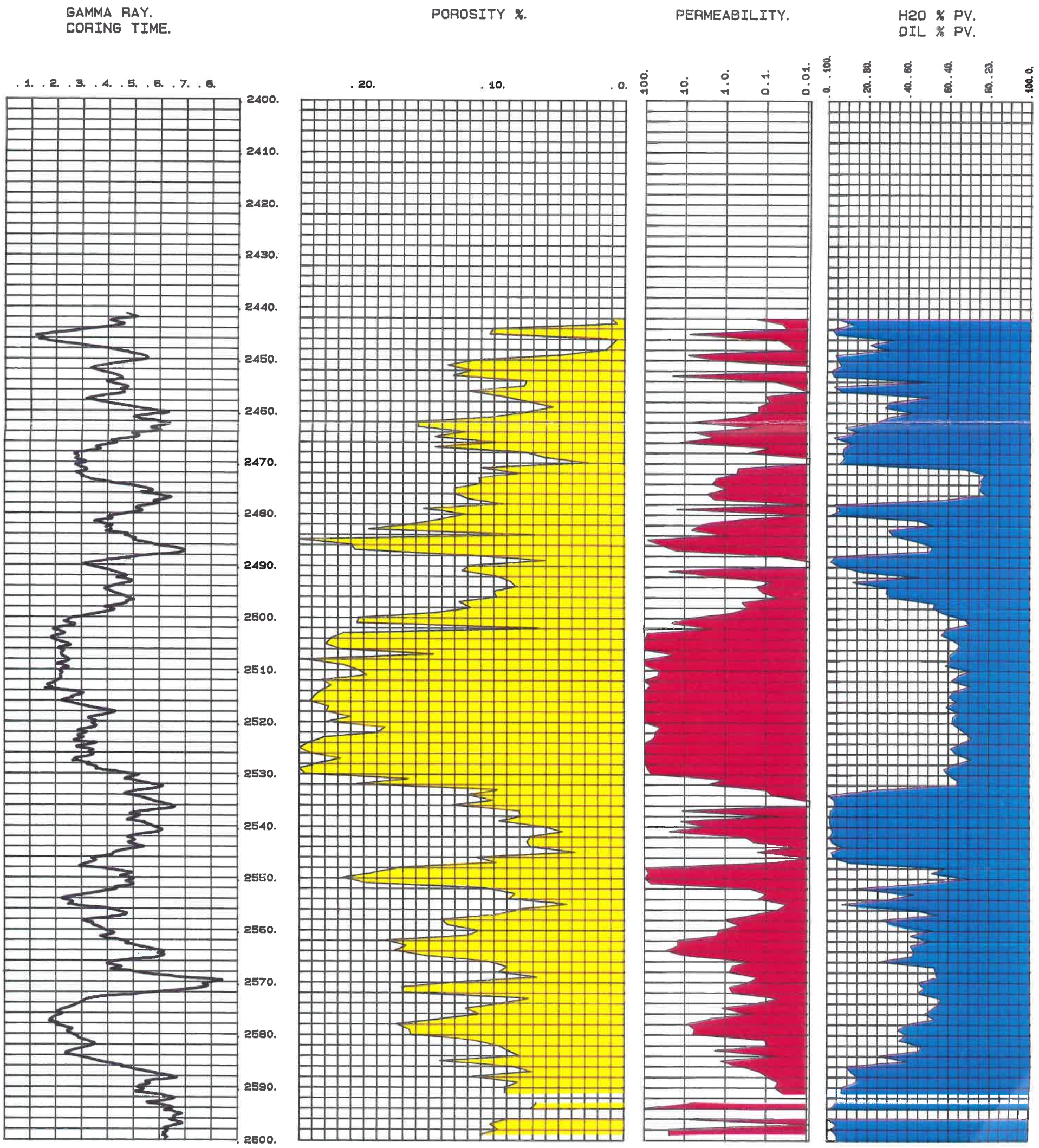
a/a	As Above
abnt	Abundant
ang	Angular
anhy	Anhydrite(ic)
aren	Arenaceous
arg	Argillaceous
bcm	Becoming
bit	Bitumenious
blk	Black
blky	Blocky
bn	Brown
bl	Blue
bri	Bright
buf	Buff
bur	Burrowed
calc	Calcareous
carb	Carbonaceous
cmt	Cement
chlky	Chalky
cht	Chert(y)
cly	Clay(ey)
cln	Clean
clr	Clear
c	coarse
conch	Chonchoidial
cons	Consolidated
crp	Crypto
xl(n)	Crystal(line)
dk	Dark
dd	Dead
dns	Dense
dia	Diameter
dism	Disseminated
dol	Dolomite(ic)
erthy	Earthy
embd	Embedded
evap	Evaporite
fnt	Faint
fr	Fair
f	Fine
fis	Fissle
flu	Fluorescence
fos	Fossil(iferous)
frac	Fracture
fri	Friable
glau	Glauconite
g	Good
grdg	Grading
gr	Grain
gy	Gray(ish)
gn	Green
gyp	Gypsum
gld	Gold
hal	Halite
hd	Hard
hvy	Heavy
hz	Horizontal
ip	In Part
incl	Inclusion
incr	Increasing
intbd	Interbedded
intxl	Intercrystalline
intgr	Intergranular
lam	Laminated
lg	Large
lt	Light(er)
lig	Lignite
ls	Limestone
lse	Loose
m	Medium
mic	Mica
micxl	Microcrystalline
mlky	Milky
mnrl	Mineral
mod	Moderate
mott	Mottled
mdst	Mudstone
n/s	No Show
nvp	No Visible Porosity
nod	Nodules
occ	Occasional
od	Odor

O	Oil
ool	Oolitic
opq	Opaque
orng	Orange
ptg	Parting
plty	Platey
p	Poor
por	Porosity
pos	Possible
pur	Purple
pred	Predominant(ly)
pyr	Pyrite
qtz	Quartz
rr	Rare(ly)
rexl	Recrystalized
rd	Red
res	Residual
rnd	Round(ed)
ROP	Rate of Penetration
sdy	Sand(y)
ss	Sandstone
sat	Saturated
sct	Scattered
sh	Shale
shly	Shaley
sil	Silica(iceous)
slty	Silty
sltst	Siltstone
sl	Slight(ly)
srt	Sorted(ing)
sb	Sub
suc	Sucrosic
S	Sulfur(ous)
tex	Texture
tr	Trace
transl	Translucent
Transp	Transparent
trip	Tripolitic
uncons	Unconsolidated
up	Upper
vert	Vertical
vis	Visible
v	Very
vit	Vitreous
vug	Vug(gy)
wxy	Waxey
w/	With
w/o	With Out
wh	White
wk	Weak
yel	Yellow
zn	Zone

RESERVOIRS, INCORPORATED.

COMPANY: ANADARKO PETROLEUM
WELL: FLOWER A-1
FIELD: HUGOTON
COUNTY: STEVENS STATE: KANSAS
LOCATION: 1320 FSL 1250 FWL SEC 25 T31S R38W
API NO.:
FORMATION: HOLLNBG/COUNCIL GRVE
CORING FLUID:

FILE NO.: RMC156
DATE: 12-16-94
ELEV.:
CORED BY: WEATHERFORD
ANALYST: DAVID FLOYD

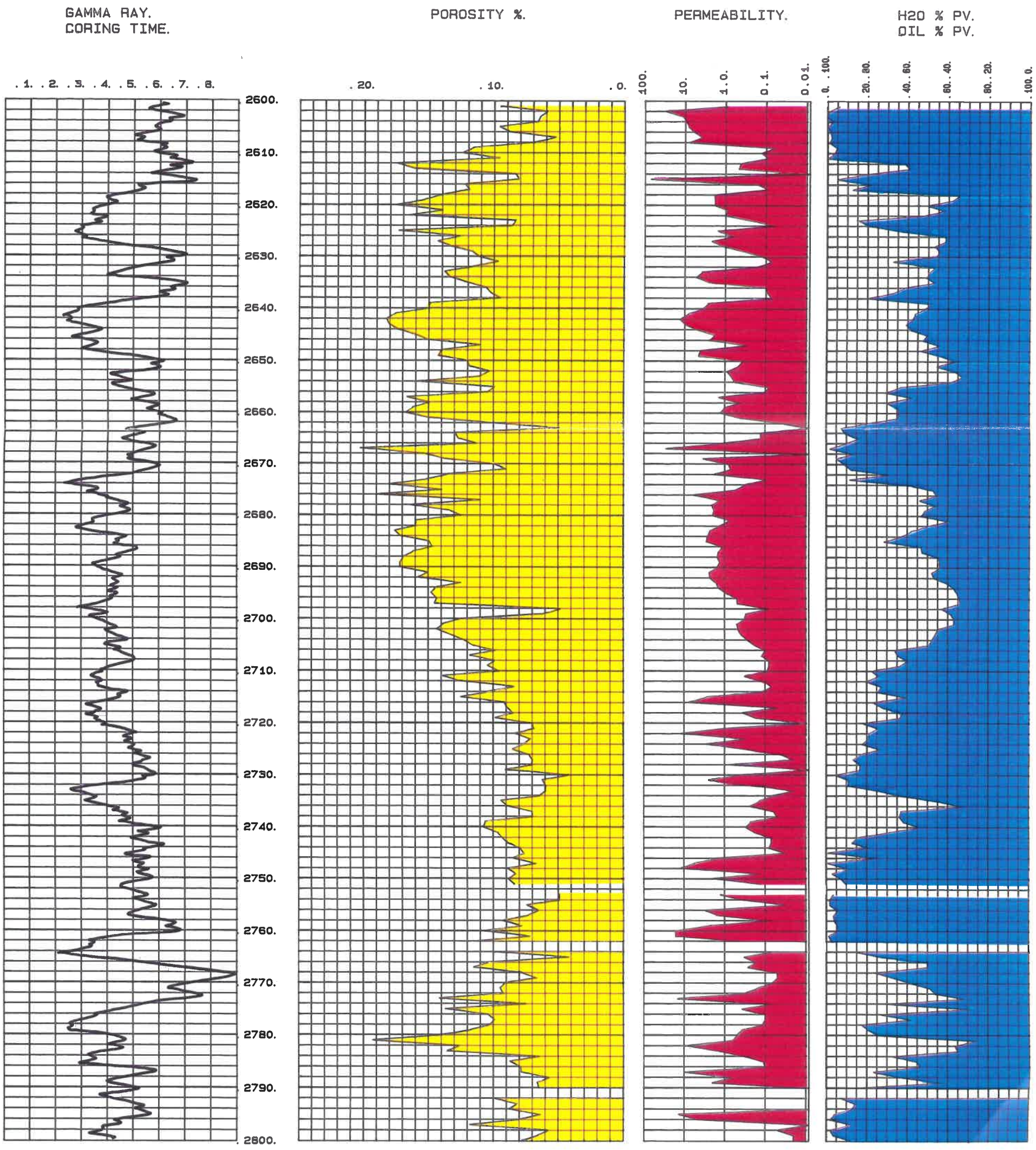


RESERVOIRS, INCORPORATED.

COMPANY: ANADARKO PETROLEUM
WELL: FLOWER A-1
FIELD: HUGOTON
COUNTY: STEVENS STATE: KANSAS
LOCATION: 1320 FSL 1250 FWL SEC 25 T31S R38W
API NO.:

FORMATION: HOLLNBG/COUNCIL GRVE
CORING FLUID:

FILE NO.: RMC156
DATE: 12-16-94
ELEV.:
CORED BY: WEATHERFORD
ANALYST: DAVID FLOYD



RESERVOIRS, INCORPORATED.

COMPANY: ANADARKO PETROLEUM
WELL: FLOWER A-1
FIELD: HUGOTON
COUNTY: STEVENS STATE: KANSAS
LOCATION: 1320 FSL 1250 FWL SEC 25 T31S R38W
API NO.:

FORMATION: HOLLNBG/COUNCIL GRVE
CORING FLUID:

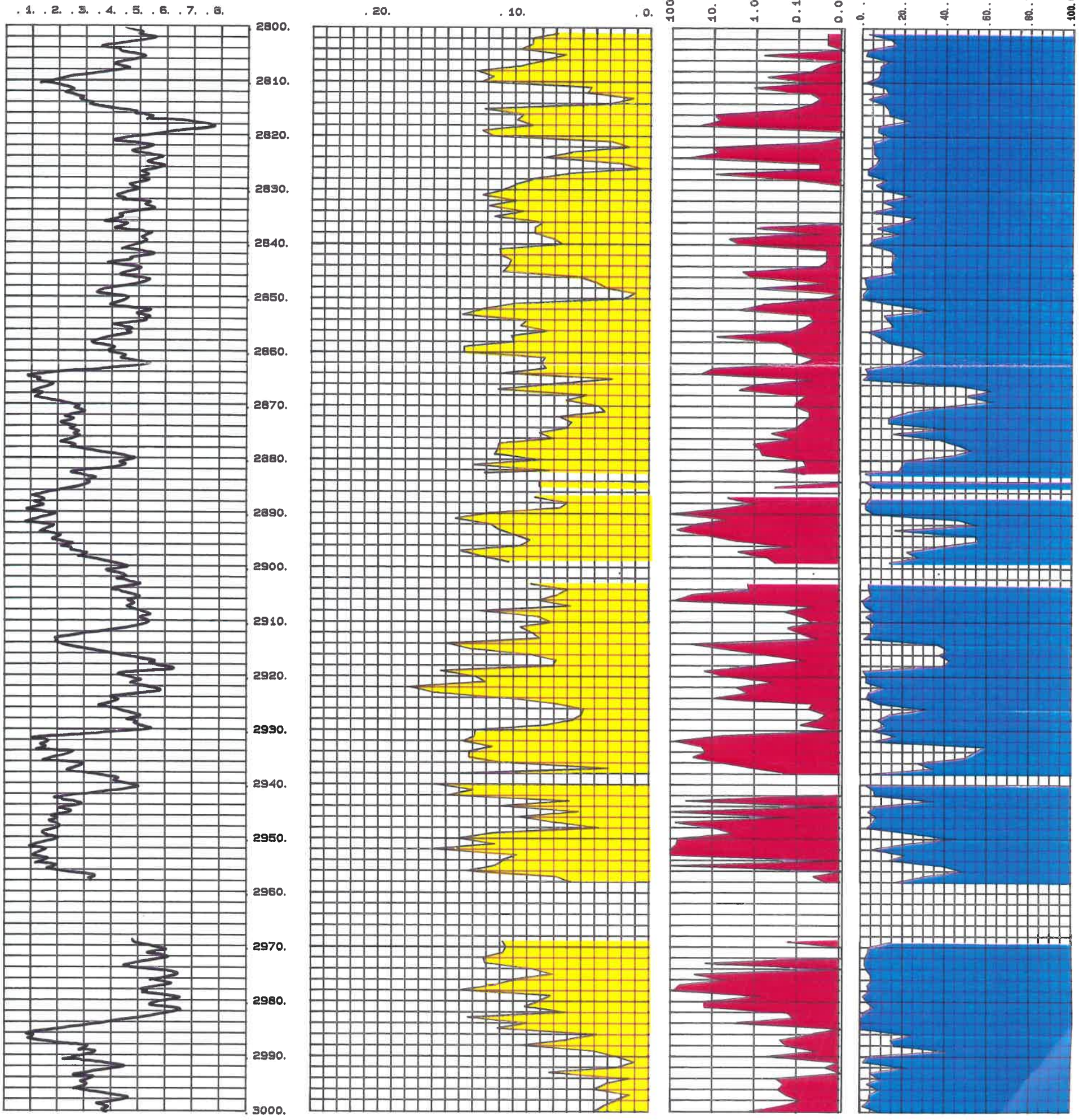
FILE NO.: RMC156
DATE: 12-16-94
ELEV.:
CORED BY: WEATHERFORD
ANALYST: DAVID FLOYD

GAMMA RAY.
CORING TIME.

POROSITY %.

PERMEABILITY.

H20 % PV.
OIL % PV.



RESERVOIRS, INCORPORATED.

COMPANY: ANADARKO PETROLEUM
WELL: FLOWER A-1
FIELD: HUGOTON
COUNTY: STEVENS STATE: KANSAS
LOCATION: 1320 FSL 1250 FWL SEC 25 T31S R38W
API NO.:

FORMATION: HOLLNBG/COUNCIL GRVE
CORING FLUID:

FILE NO.: RMC156
DATE: 12-16-94
ELEV.:
CORED BY: WEATHERFORD
ANALYST: DAVID FLOYD

GAMMA RAY.
CORING TIME.

POROSITY %.

PERMEABILITY.

H2O % PV.
OIL % PV.