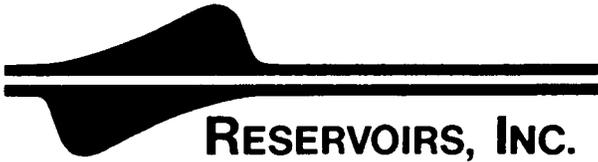


15-189-21756

4-33-38w

ANADARKO PETROLEUM
YOUNGREN 'J' 1-H
STEVENS COUNTY, KANSAS
FULL DIAMETER CORE ANALYSIS



RESERVOIRS, INC.

2057 COMMERCE DRIVE

MIDLAND, TEXAS 79703

4-30-2000
15-129-21756
CONVENTIONAL AND SPECIAL CORE ANALYSIS
GAS & LIQUID ANALYSIS • OIL FINGERPRINTING
GEOLOGICAL ANALYSIS • CLASTICS/CARBONATES
SINGLE WELL/FIELD/REGIONAL STUDIES
WELL COMPLETION/STIMULATION STUDIES
ENVIRONMENTAL SERVICES

(915) 699-2468

FAX: (915) 699-2464

August 19, 1994

ANADARKO PETROLEUM
17001 Northchase Drive
Houston, Texas 77060

Attn: Mr. Todd Montgomery

Re: Youngren 'J' 1-H
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: Youngren 'J' 1-H
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.

DISTRIBUTION

5 cc ANADARKO PETROLEUM
17001 Northchase Drive
Houston, Texas 77060

Attn: Mr. Todd Montgomery

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H
 County: STEVENS COUNTY, KANSAS
 FULL DIAMETER CORE ANALYSIS

Formation: CHASE - PANOMA COUNCIL GROVE
 Location: 1390 FSL 1390 FWL SEC 4 T33S R38W
 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY
			Kmax	K90	Kvert			H2O	OIL	
	2470	2471	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA	SH SL SLTY FRAC
2	2471	2472	0.20	0.15	0.12	6.6	2.78	89.0	0.0	SH SL SLTY SL SDY TR ANHY
3	2472	2473	0.17	0.17	0.02	0.7	2.96	96.5	0.0	ANHY SH PTG DNS
	2473	2474	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA	SH SL SLTY SL SDY
	2474	2475	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA	SH SL SLTY SL SDY
5	2475	2476	8.29	7.55	0.52	3.3	2.93	93.4	0.0	ANHY MOD SHLY SL SLTY
6	2476	2477	0.11	0.06	0.02	1.0	2.93	82.8	0.0	ANHY SH PTG DNS
7	2477	2478	5.78	5.37	0.32	6.4	2.80	87.6	0.0	SH SLTY LAM ANHY INCL
8	2478	2479	4.29	2.16	0.73	13.7	2.73	27.4	0.0	SS VFGR SL DOL SL SLTY INTGR POR
9	2479	2480	3.10	3.02	0.63	13.8	2.75	23.9	0.0	SS VFGR SL DOL SL SLTY INTGR POR
10	2480	2481	13.52	11.83	12.85	17.3	2.70	28.8	0.0	SS VFGR SL DOL TR SLTY INTGR POR
11	2481	2482	11.20	10.60	8.24	17.1	2.71	28.6	0.0	SS VFGR SL DOL TR SLTY INTGR POR
12	2482	2483	4.94	4.85	1.87	15.9	2.69	37.9	0.0	SS VFGR SL DOL TR SLTY INTGR POR
13	2483	2484	4.36	2.91	0.89	14.5	2.69	34.0	0.0	SS VFGR SL DOL TR SLTY INTGR POR
14	2484	2485	3.46	3.09	0.19	11.7	2.72	49.0	0.0	SS VFGR SL DOL TR SLTY INTGR POR
15	2485	2486	6.28	3.55	0.13	15.4	2.67	49.8	0.0	SH SL SLTY TR SDY
16	2486	2487	16.98	12.08	0.39	14.5	2.71	43.5	0.0	SH ANHY INCL SL SLTY TR SDY
17	2487	2488	6.71	5.90	0.31	14.2	2.74	31.9	0.0	SS VFGR SH LAM SL SLTY INTGR POR
18	2488	2489	4.60	2.29	0.15	11.5	2.73	51.3	0.0	SH SL SDY SL SLTY
19	2489	2490	2.93	2.60	0.13	9.4	2.74	38.9	0.0	SS VFGR SH PTG SLTY INTGR POR
20	2490	2491	1.97	1.42	0.23	11.1	2.74	38.2	0.0	SS VFGR SL - MOD SHLY INTGR POR
21	2491	2492	4.56	4.36	0.32	9.7	2.77	36.7	0.0	SS VFGR SL - MOD SHLY INTGR POR
22	2492	2493	0.92	0.65	0.21	12.2	2.75	35.5	0.0	SS VFGR SL DOL SL SLTY INTGR POR
23	2493	2494	0.19	0.14	0.09	8.9	2.82	74.1	0.0	SS VFGR SHLY SL SLTY TR INTGR POR
24	2494	2495	15.58	14.84	2.49	5.4	2.75	90.8	0.0	SH TR SLTY TR SDY FRAC
25	2495	2496	17.70	5.85	0.47	6.3	2.83	60.2	0.0	SH LG ANHY INCL SL SLTY FRAC
26	2502	2502	32.19	0.93	0.06	6.7	2.76	62.9	0.0	SH TR SLTY TR SDY FRAC
27	2502	2503	0.05	PLUG	N/A	9.1	2.83	69.8	0.0	SH ANHY INCL SLTY
28	2503	2504	0.15	0.12	0.06	5.5	2.80	92.7	0.0	SH ANHY INCL SLTY
29	2504	2505	0.11	0.11	0.08	7.0	2.84	52.4	0.0	DOL ANHY INCL MOD SLTY TR PPP
30	2505	2506	0.33	0.29	0.28	11.5	2.84	27.5	0.0	DOL SL ANHY SL SLTY SCT PPP
31	2506	2507	2.23	1.83	3.54	14.8	2.85	23.5	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
32	2507	2508	0.95	0.90	0.90	12.9	2.84	24.0	0.0	DOL SL ANHY SL SLTY TR FOS SCT PPP

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H
 County: STEVENS COUNTY, KANSAS
 FULL DIAMETER CORE ANALYSIS

Formation: CHASE - PANOMA COUNCIL GROVE
 Location: 1390 FSL 1390 FWL SEC 4 T33S R38W
 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH	PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY	
		Kmax	K90	Kvert			H2O	OIL		
33	2508	2509	2.48	2.37	1.23	14.5	2.84	33.0	0.0	DOL ANHY INCL SL SLTY SH PTG SCT PPP
34	2509	2510	7.41	7.26	7.56	16.7	2.85	23.3	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
35	2510	2511	5.48	5.34	5.88	15.1	2.84	24.5	0.0	DOL SL ANHY SL SLTY TR FOS SCT PPP
36	2511	2512	0.19	0.17	0.15	10.6	2.85	29.4	0.0	DOL SL ANHY SL SLTY TR FOS SCT PPP
37	2512	2513	5.29	4.80	2.36	13.8	2.85	22.3	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
38	2513	2514	21.20	7.18	35.74	13.5	2.84	24.4	0.0	DOL SL ANHY SL SLTY FRAC SCT PPP
39	2514	2515	11.47	11.18	8.70	16.0	2.84	23.5	0.0	DOL SL ANHY SL SLTY TR FOS SCT PPP
40	2515	2516	2.68	2.30	1.29	12.8	2.84	25.6	0.0	DOL SL ANHY SL SLTY TR FOS SCT PPP
41	2516	2517	3.75	3.51	3.30	13.3	2.84	23.0	0.0	DOL SL SLTY TR ANHY TR FOS SCT PPP
42	2517	2518	3.10	2.87	0.57	14.2	2.84	27.5	0.0	DOL SL SLTY TR ANHY TR FOS SCT PPP
43	2518	2519	29.50	29.00	23.89	15.4	2.85	17.0	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
44	2519	2520	6.17	3.52	4.12	13.4	2.84	20.4	0.0	DOL SL ANHY SL SLTY TR FOS SCT PPP
45	2520	2521	0.55	0.45	0.30	11.8	2.85	20.5	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
46	2521	2522	1.06	0.44	1.25	8.4	2.85	23.8	0.0	DOL ANHY INCL SL - MOD SLTY TR PPP
47	2522	2523	38.31	12.80	43.56	14.0	2.85	17.7	0.0	DOL ANHY INCL SL SLTY FOS FRAC SCT PPP
48	2523	2524	15.23	11.77	6.37	11.6	2.85	20.8	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
49	2524	2525	88.50	83.80	5.16	17.6	2.84	27.5	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
50	2525	2526	17.19	15.19	11.49	13.5	2.85	19.5	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
51	2526	2527	85.58	85.05	15.98	17.1	2.84	21.0	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
52	2527	2528	17.36	15.44	0.18	7.0	2.85	30.1	0.0	DOL SL SLTY ANHY INCL TR PPP
53	2528	2529	0.12	0.11	0.08	8.3	2.86	31.2	0.0	DOL SL SLTY ANHY INCL TR PPP
54	2529	2530	33.34	31.88	22.40	14.5	2.85	18.7	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
55	2530	2531	24.14	22.76	19.25	15.5	2.84	21.2	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
56	2531	2532	25.59	24.11	12.44	15.3	2.85	15.3	0.0	DOL ANHY INCL SL SLTY TR FOS SCT PPP
57	2532	2533	9.86	9.83	4.05	15.5	2.82	24.7	0.0	DOL SL SLTY SL ANHY TR FOS SCT PPP
58	2533	2534	5.36	4.82	1.08	12.8	2.84	25.4	0.0	DOL SL SLTY SL ANHY TR FOS SCT PPP
59	2534	2535	10.93	9.33	0.29	11.7	2.84	26.4	0.0	DOL SL SLTY SL ANHY TR FOS SCT PPP
60	2535	2536	2.28	1.18	0.61	12.1	2.84	32.2	0.0	DOL SL SLTY SL ANHY TR FOS SCT PPP
61	2536	2537	0.16	0.12	0.11	9.1	2.83	72.2	0.0	DOL SL - MOD SLTY TR ANHY TR PPP
62	2537	2538	0.05	Kplug	N/A	8.7	2.83	65.4	0.0	DOL SL - MOD SLTY TR ANHY TR PPP
63	2538	2539	0.26	0.14	0.11	10.5	2.81	95.4	0.0	SS MOD SLTY SL DOL SL ANHY INTGR POR
64	2539	2540	0.33	0.19	5.32	8.7	2.80	97.7	0.0	SS SL - MOD SLTY SL DOL SL ANHY TR POR
65	2540	2541	4.13	2.69	0.28	7.5	2.70	97.1	0.0	SS SL - MOD SLTY SL DOL SL SHLY TR POR

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H

County: STEVENS COUNTY, KANSAS

FULL DIAMETER CORE ANALYSIS

Formation: CHASE - PANOMA COUNCIL GROVE

Location: 1390 FSL 1390 FWL SEC 4 T33S R38W

Date: 08-11-94

Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY
			Kmax	K90	Kvert			H2O	OIL	
66	2541	2542	0.15	0.13	0.08	6.4	2.69	95.3	0.0	SS SL-MOD SLTY SL DOL SL SHLY TR POR
67	2542	2543	0.076	0.073	0.245	11.1	2.76	92.0	0.0	RDBD SHLY SLTY TR SDY
68	2543	2544	0.170	0.131	0.080	8.3	2.73	96.3	0.0	RDBD SHLY SLTY TR SDY
69	2544	2545	0.077	0.065	0.037	9.7	2.75	98.8	0.0	RDBD SHLY SLTY TR SDY
70	2545	2546	0.108	0.105	0.096	10.8	2.78	96.8	0.0	RDBD SHLY SLTY TR SDY
71	2546	2547	0.278	0.117	0.026	10.8	2.79	95.4	0.0	RDBD SHLY SLTY TR SDY
72	2547	2548	2.418	0.111	0.156	11.1	2.75	93.4	0.0	RDBD SHLY SLTY TR SDY
73	2548	2549	*0.053	*0.046	0.043	11.9	2.75	96.7	0.0	RDBD SHLY SLTY TR SDY
74	2549	2550	0.102	0.082	0.116	12.4	2.70	95.0	0.0	RDBD SHLY SLTY TR SDY
75	2550	2551	0.40	0.28	0.15	13.0	2.73	61.9	0.0	SS VFGR SL DOL TR SLTY INTGR POR
76	2551	2552	28.38	27.38	24.02	22.8	2.67	48.2	0.0	SS VFGR TR SLTY INTGR POR
77	2552	2553	180.447	179.413	160.893	23.9	2.65	47.4	0.0	RDBD V SDY SLTY SHLY
78	2553	2554	164.387	161.764	102.630	18.8	2.64	66.8	0.0	RDBD V SDY SLTY SHLY
79	2554	2555	0.44	0.39	0.14	12.4	2.82	50.5	0.0	DOL ANHY INCL SL SLTY SCT PPP
80	2555	2556	0.105	0.080	0.055	10.6	2.74	83.8	0.0	SH TR RDBD SL SDY SLTY
81	2556	2557	0.376	0.359	0.216	16.5	2.77	67.5	0.0	SH RDBD LAM SL SDY SLTY
82	2557	2558	0.41	0.41	0.19	18.6	2.77	55.4	0.0	SH TR RDBD LAM SL SDY SLTY TR CALC
83	2558	2559	1.02	1.01	0.55	16.4	2.75	40.1	0.0	SS VFGR MOD SLTY SL CALC LAM INTGR POR
84	2559	2560	0.17	PLUG	N/A	12.8	2.69	78.6	0.0	SS VFGR SL CALC SL SLTY INTGR POR
85	2560	2561	48.15	47.65	13.93	20.3	2.66	36.1	0.0	SS VFGR TR CALC SL SLTY INTGR POR
86	2561	2562	17.54	15.86	1.56	19.3	2.65	55.2	0.0	SS VFGR TR CALC SL SLTY INTGR POR
87	2562	2563	2.73	2.69	0.41	15.7	2.68	54.1	0.0	SS VFGR TR CALC SL SLTY INTGR POR
88	2563	2564	1.59	1.50	0.30	14.5	2.68	58.1	0.0	SS VFGR TR CALC SL SLTY INTGR POR
89	2564	2565	1.03	0.49	0.26	10.9	2.71	74.8	0.0	SS VFGR SL CALC SL SLTY INTGR POR
90	2565	2566	1.08	1.01	0.38	14.5	2.77	45.4	0.0	LS SL SLTY TR SDY SL FOS SCT PPP
91	2566	2567	0.42	0.41	0.23	13.3	2.83	47.3	0.0	DOL SL SLTY SL ANHY TR FOS SCT PPP
92	2567	2568	0.94	0.90	0.22	11.2	2.76	41.3	0.0	LS SL DOL TR SDY SL FOS SCT PPP
93	2568	2569	2.83	2.80	2.53	15.8	2.74	35.9	0.0	LS SL SLTY TR SDY SL FOS SCT PPP
94	2569	2570	2.42	2.38	1.54	13.4	2.75	38.9	0.0	LS SL SLTY TR SDY SL FOS SCT PPP
95	2570	2571	1.51	1.45	0.79	13.5	2.73	33.2	0.0	LS SL SLTY TR SDY SL FOS SCT PPP
96	2571	2572	3.13	3.12	2.75	17.1	2.77	33.4	0.0	LS SL SLTY TR SDY SL ANHY SCT PPP
97	2572	2573	10.60	10.31	7.94	19.2	2.84	29.2	0.0	DOL SL SLTY SL ANHY TR FOS SCT PPP
98	2573	2574	8.02	7.36	5.94	19.1	2.83	30.5	0.0	DOL SL SLTY SL ANHY TR FOS SCT PPP

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H
 County: STEVENS COUNTY, KANSAS
 FULL DIAMETER CORE ANALYSIS

Formation: CHASE - PANOMA COUNCIL GROVE
 Location: 1390 FSL 1390 FWL SEC 4 T33S R38W
 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY
			Kmax	K90	Kvert			H2O	OIL	
99	2574	2575	3.62	0.38	0.39	14.5	2.81	55.0	0.0	DOL SL SLTY SL ANHY TR FOS SCT PPP
100	2575	2576	0.20	0.13	0.06	12.9	2.81	66.7	0.0	DOL SL SLTY SL ANHY TR FOS SCT PPP
101	2576	2577	1.82	1.64	0.88	10.7	2.70	38.1	0.0	LS TR SLTY TR STYL FOS SCT PPP
102	2577	2578	0.86	0.84	0.52	11.9	2.72	34.0	0.0	LS TR SLTY TR STYL FOS SCT PPP
103	2578	2579	1.13	1.11	1.05	12.6	2.71	36.8	0.0	LS TR SLTY FOS SCT PPP
104	2579	2580	12.82	5.10	13.87	11.2	2.75	32.7	0.0	LS TR SLTY TR ANHY FOS SCT PPP
105	2580	2581	0.37	0.36	0.21	11.5	2.77	30.7	0.0	LS TR SLTY ANHY INCL FOS SCT PPP
106	2581	2582	0.27	0.27	0.19	12.8	2.78	37.1	0.0	LS TR SLTY ANHY INCL FOS SCT PPP
107	2582	2583	1.06	1.01	0.13	9.5	2.74	28.8	0.0	LS SLTY SHLY SLTY LAM TR - SCT PPP
108	2583	2584	4.08	3.91	2.28	14.4	2.71	29.6	0.0	LS SL SLTY SL SDY TR FOS SCT PPP
109	2584	2585	1.52	1.33	0.27	10.7	2.69	33.8	0.0	LS SL SLTY SL SDY TR FOS SCT PPP
110	2585	2586	16.35	14.96	2.39	14.4	2.76	35.1	0.0	SS VFGR SL CALC SLTY LAM INTGR POR
111	2586	2587	3.16	3.12	0.60	15.2	2.73	32.7	0.0	SS VFGR SL CALC SLTY LAM INTGR POR
112	2587	2588	0.19	0.18	0.14	12.0	2.74	47.9	0.0	SS VFGR SL CALC SLTY LAM INTGR POR
113	2588	2589	0.47	0.44	0.29	14.4	2.69	46.4	0.0	LS SL SLTY SL SDY TR FOS SCT PPP
114	2589	2590	0.05	PLUG	N/A	9.1	2.69	76.8	0.0	LS SL SLTY SL SDY TR FOS TR - SCT PPP
115	2590	2591	20.98	13.34	0.41	5.7	2.70	88.8	0.0	SH DKGY SLTY SL CALC SL ANHY
116	2591	2592	*0.085	*0.070	TBFA	6.5	2.67	97.8	0.0	RDBD SLTY LAM SL SDY SH LAM
117	2592	2593	6.93	PLUG	N/A	11.4	2.74	86.8	0.0	RDBD SHLY SLTY TR SDY
118	2593	2594	0.39	PLUG	N/A	8.7	2.80	87.2	0.0	RDBD SHLY SLTY TR SDY
119	2594	2595	0.00	PLUG	N/A	11.4	2.77	85.3	0.0	RDBD SHLY SLTY TR SDY
120	2595	2596	3.48	PLUG	N/A	12.2	2.80	80.4	0.0	RDBD SHLY SLTY TR SDY
121	2596	2597	0.139	0.139	0.006	8.0	2.69	95.9	0.0	RDBD SHLY SLTY TR SDY
122	2597	2598	0.302	0.134	4.291	12.0	2.75	95.1	0.0	RDBD SHLY SLTY TR SDY FRAC
123	2598	2599	0.527	0.413	0.016	4.2	2.66	98.1	0.0	RDBD SHLY SLTY SL - MOD SDY
124	2599	2600	8.212	2.205	0.005	8.1	2.68	98.9	0.0	RDBD SHLY SLTY TR SDY
125	2600	2601	2.646	2.429	0.673	9.5	2.66	93.1	0.0	RDBD SHLY SLTY SL - MOD SDY
126	2601	2602	51.267	36.543	7.695	10.4	2.73	96.6	0.0	RDBD SHLY SLTY TR SDY FRAC
127	2602	2603	2.457	1.298	0.250	10.1	2.68	97.4	0.0	RDBD SHLY SLTY TR SDY
128	2603	2604	0.093	0.055	0.013	6.4	2.69	97.1	0.0	RDBD GY SH INCL SLTY TR SDY
129	2604	2605	39.423	15.252	12.432	9.7	2.71	97.4	0.0	RDBD SLTY SHLY GY SH INCL STYL FRAC
130	2605	2606	0.193	0.104	0.007	6.9	2.65	97.7	0.0	RDBD SHLY SLTY SL - MOD SDY
131	2606	2607	0.176	0.164	0.123	14.5	2.72	73.0	0.0	SS VFGR SL CALC RDBD LAM INTGR POR

ANADARKO PETROLEUM

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 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY
			Kmax	K90	Kvert			H2O	OIL	
132	2607	2608	0.348	0.331	0.149	14.3	2.72	63.8	0.0	SS VFGR SL CALC RDBD LAM INTGR POR
133	2608	2609	0.40	0.39	0.09	13.9	2.72	60.7	0.0	SS VFGR SL CALC SLTY LAM INTGR POR
134	2609	2610	0.12	0.10	0.10	11.6	2.70	69.3	0.0	SS VFGR SLTY SL CALC INTGR POR
135	2610	2611	19.03	10.05	N/A	10.2	2.69	73.8	0.0	SH SLTY SL SDY TR CALC
136	2611	2612	10.99	10.76	1.83	17.0	2.71	34.4	0.0	SS SL-MOD CALC SL SLTY INTGR POR
137	2612	2613	31.46	31.12	28.72	20.6	2.70	37.8	0.0	SS SL-MOD CALC SL SLTY INTGR POR
138	2613	2614	42.84	42.55	40.39	21.7	2.69	41.3	0.0	SS SL-MOD CALC SL SLTY INTGR POR
139	2614	2615	69.91	60.75	41.03	21.7	2.69	39.3	0.0	SS SL-MOD CALC SL SLTY INTGR POR
140	2615	2616	46.45	46.31	N/A	21.7	2.69	40.0	0.0	SS SL-MOD CALC SL SLTY INTGR POR
141	2616	2617	20.99	20.77	14.66	19.8	2.71	37.9	0.0	LS SL-MOD SDY SL SLTY SCT PPP
142	2617	2618	5.50	5.41	3.54	16.9	2.75	39.2	0.0	LS SL-MOD SDY SL SLTY SCT PPP
143	2618	2619	10.06	9.98	6.12	19.1	2.75	40.4	0.0	LS SL-MOD SDY SL SLTY SCT PPP
144	2619	2620	4.60	4.54	3.03	17.0	2.74	55.7	0.0	LS SL-MOD SDY SL SLTY SCT PPP
145	2620	2621	2.33	2.33	1.78	16.2	2.75	45.4	0.0	LS SL-MOD SDY SL SLTY SCT PPP
146	2621	2622	0.44	0.43	0.25	12.3	2.74	37.0	0.0	LS SL-MOD SDY SL SLTY SCT PPP
147	2622	2623	1.07	1.07	0.90	14.4	2.73	39.6	0.0	LS SL-MOD SDY SL SLTY SCT PPP
148	2623	2624	2.82	2.75	2.34	16.3	2.73	36.3	0.0	LS SL-MOD SDY SL SLTY SCT PPP
149	2624	2625	2.22	2.01	1.54	15.8	2.74	37.6	0.0	LS SL SLTY SL SDY SL FOS SCT PPP
150	2625	2626	1.61	1.58	1.57	14.3	2.71	33.2	0.0	LS SL SLTY SL SDY SL FOS SCT PPP
151	2626	2627	2.48	2.36	1.62	14.7	2.71	37.8	0.0	LS SL SLTY SL SDY SL FOS SCT PPP
152	2627	2628	4.06	4.01	4.54	17.1	2.71	45.0	0.0	LS SL SLTY SL SDY SL FOS SCT PPP
153	2628	2629	0.62	0.61	0.52	13.5	2.71	39.2	0.0	LS SL SLTY SL SDY SL FOS SCT PPP
154	2629	2630	0.60	0.60	0.52	13.7	2.71	39.8	0.0	LS SL SLTY SL SDY SL FOS SCT PPP
155	2630	2631	0.76	0.76	0.53	13.7	2.71	38.7	0.0	LS SL SLTY SL SDY SL FOS SCT PPP
156	2631	2632	1.25	1.18	0.46	14.9	2.74	40.8	0.0	LS SL-MOD SLTY SL FOS SCT PPP
157	2632	2633	3.66	3.65	3.63	18.8	2.78	34.9	0.0	LS SL SLTY SL ANHY SL FOS SCT PPP
158	2633	2634	3.73	3.70	2.84	16.4	2.82	30.0	0.0	LS SL SLTY ANHY INCL SL FOS SCT PPP
159	2634	2635	5.08	5.02	5.75	21.6	2.81	29.2	0.0	LS SL SLTY ANHY INCL SL FOS SCT PPP
160	2635	2636	3.83	3.38	2.41	19.9	2.80	30.3	0.0	LS SL SLTY ANHY INCL SL FOS SCT PPP
161	2636	2637	2.07	1.99	0.45	30.8	2.73	23.1	0.0	LS TR SLTY FOS V ABNT SCT PPP
162	2637	2638	4.92	4.41	2.87	24.6	2.70	26.0	0.0	LS TR SLTY FOS ABNT SCT PPP
163	2638	2639	7.48	6.08	1.01	18.0	2.71	31.7	0.0	LS TR SLTY FOS ABNT SCT PPP
164	2639	2640	3.18	3.11	1.40	15.0	2.71	33.9	0.0	LS SL SLTY SL FOS SCT PPP

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H
 County: STEVENS COUNTY, KANSAS
 FULL DIAMETER CORE ANALYSIS

Formation: CHASE – PANOMA COUNCIL GROVE
 Location: 1390 FSL 1390 FWL SEC 4 T33S R38W
 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY
			Kmax	K90	Kvert			H2O	OIL	
165	2640	2641	2.69	2.67	2.37	15.5	2.70	32.3	0.0	LS SL SLTY SL FOS SCT PPP
166	2641	2642	1.91	1.89	1.70	15.3	2.70	33.7	0.0	LS SL SLTY SL FOS SCT PPP
167	2642	2643	1.71	1.71	1.09	15.1	2.71	34.7	0.0	LS SL SLTY SL FOS SCT PPP
168	2643	2644	3.14	3.03	3.56	18.1	2.74	33.0	0.0	LS SL SLTY SL FOS SCT PPP
169	2644	2645	3.97	3.82	3.33	16.8	2.73	34.9	0.0	LS SL SLTY SL FOS SCT PPP
170	2645	2646	1.83	1.81	0.87	16.5	2.75	32.8	0.0	LS SL SLTY SL FOS TR ANHY SCT PPP
171	2646	2647	2.55	2.49	2.18	17.3	2.74	31.6	0.0	LS SL SLTY SL FOS SCT PPP
172	2647	2648	3.48	3.45	3.62	18.0	2.74	27.3	0.0	LS SL SLTY SL FOS SCT PPP
173	2648	2649	2.77	2.70	2.83	18.4	2.76	24.4	0.0	LS SL SLTY SL FOS TR ANHY SCT PPP
174	2649	2650	0.81	0.79	0.47	13.4	2.74	29.0	0.0	LS SL SLTY SL FOS TR ANHY SCT PPP
175	2650	2651	3.79	3.68	1.64	14.8	2.75	27.2	0.0	LS SL SLTY SL FOS TR ANHY SCT PPP
176	2651	2652	1.00	0.98	0.79	14.5	2.73	25.5	0.0	LS SL SLTY SL FOS SCT PPP
177	2652	2653	1.35	1.20	0.94	13.1	2.74	27.6	0.0	LS SL SLTY SL FOS SCT PPP
178	2653	2654	0.46	0.45	0.17	10.6	2.75	27.7	0.0	LS SL SLTY SL FOS SL ANHY SCT PPP
179	2654	2655	0.35	0.35	0.17	14.4	2.76	36.2	0.0	LS SL SLTY SL FOS SL ANHY SCT PPP
180	2655	2656	0.57	0.55	0.41	14.1	2.75	34.8	0.0	LS MOD SLTY TR FOS SL ANHY SCT PPP
181	2656	2657	0.13	0.05	0.01	8.5	2.76	90.2	0.0	LS MOD SLTY TR FOS SL ANHY TR PPP
182	2657	2658	0.16	0.16	0.10	10.4	2.71	47.8	0.0	LS MOD SLTY TR FOS SL ANHY SCT PPP
183	2658	2659	0.12	0.07	0.04	6.9	2.70	85.8	0.0	LS MOD SLTY SL SHLY TR FOS TR PPP
184	2659	2660	0.61	0.12	0.05	6.5	2.70	88.5	0.0	LS MOD SLTY SL SHLY TR FOS TR PPP
185	2660	2661	0.10	0.07	0.10	6.8	2.71	74.2	0.0	LS MOD SLTY SL SHLY TR FOS TR PPP
186	2661	2662	60.32	1.50	0.12	8.7	2.71	78.0	0.0	LS MOD SLTY SL SHLY FRAC TR PPP
187	2662	2663	0.12	0.09	0.10	9.7	2.72	81.2	0.0	LS SL-MOD SLTY STYL SHLY SCT PPP
188	2663	2664	0.13	0.10	0.14	10.1	2.70	87.0	0.0	LS TR SLTY SL SDY SCT PPP
189	2664	2665	0.10	0.09	0.12	10.8	2.71	89.8	0.0	LS TR SLTY SL SDY SCT PPP
190	2665	2666	0.08	0.07	0.13	9.9	2.71	90.6	0.0	LS TR SLTY SL SDY SCT PPP
191	2666	2667	32.12	0.05	0.02	10.2	2.70	90.4	0.0	SH GYGN LTGY SLTY FRAC SL SDY
192	2667	2668	0.07	0.06	0.06	10.7	2.68	95.5	0.0	SH GYGN LTGY SLTY SL SDY
193	2668	2669	0.03	0.03	0.03	8.1	2.64	94.0	0.0	SH GYGN LTGY SLTY TR SDY
194	2669	2670	5.88	0.64	0.05	9.0	2.69	95.8	0.0	SH LTGY-GY SLTY SL SDY FRAC
195	2670	2671	5.571	0.120	0.535	12.3	2.70	92.6	0.0	SH LTGYGN TR RDBRN SLTY SL SDY FRAC
196	2671	2672	0.123	0.108	0.051	12.7	2.71	89.4	0.0	SH LT RDBRN-GYGN SLTY SL SDY
197	2672	2673	TBFA	TBFA	0.09	13.1	2.70	88.5	0.0	SS VFGR SHLY SLTY INTGR POR

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H
 County: STEVENS COUNTY, KANSAS
 FULL DIAMETER CORE ANALYSIS

Formation: CHASE - PANOMA COUNCIL GROVE
 Location: 1390 FSL 1390 FWL SEC 4 T33S R38W
 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY
			Kmax	K90	Kvert			H2O	OIL	
198	2673	2674	0.80	0.75	0.17	14.6	2.69	66.8	0.0	SS VFGR SLTY SHLY INTGR POR
199	2674	2675	0.54	0.53	N/A	12.2	2.69	94.3	0.0	SS VFGR SLTY SHLY INTGR POR
200	2675	2676	0.31	0.23	0.08	13.5	2.78	95.6	0.0	SS VFGR SLTY INTGR POR
201	2676	2677	1.38	1.22	0.82	16.8	2.80	36.1	0.0	LS SL DOL LG ANHY INCL SL SDY SCT POR
202	2677	2678	0.83	0.83	0.18	12.8	2.79	40.2	0.0	LS SL DOL LG ANHY INCL SL SDY SCT POR
203	2678	2679	0.96	0.79	0.19	10.7	2.72	39.4	0.0	LS SL-MOD SLTY TR ANHY TR SDY SCT POR
204	2679	2680	1.80	1.71	0.39	12.8	2.71	35.1	0.0	LS SL-MOD SLTY TR ANHY TR SDY SCT POR
205	2680	2681	1.08	1.07	0.68	13.1	2.72	36.8	0.0	LS SL-MOD SLTY TR ANHY TR SDY SCT POR
206	2681	2682	1.01	1.00	0.65	13.5	2.72	36.1	0.0	LS SL-MOD SLTY TR ANHY TR SDY SCT POR
207	2682	2683	0.73	0.72	0.56	15.0	2.74	36.8	0.0	LS SL-MOD SLTY TR ANHY TR SDY SCT POR
208	2683	2684	0.98	0.98	0.84	13.8	2.72	39.4	0.0	LS SL-MOD SLTY TR ANHY TR SDY SCT POR
209	2684	2685	1.31	1.30	1.30	14.6	2.73	38.2	0.0	LS SL-MOD SLTY TR ANHY TR SDY SCT POR
210	2685	2686	1.56	1.55	1.42	14.4	2.74	35.8	0.0	LS SL-MOD SLTY ANHY INCL SCT POR
211	2686	2687	0.94	0.93	0.87	14.9	2.72	33.4	0.0	LS SL-MOD SLTY TR ANHY SCT POR
212	2687	2688	0.82	0.81	0.58	13.8	2.72	35.0	0.0	LS SL-MOD SLTY TR ANHY SCT POR
213	2688	2689	2.36	2.32	2.32	17.0	2.74	37.5	0.0	LS SL-MOD SLTY TR ANHY SCT POR
214	2689	2690	2.31	2.29	2.15	15.5	2.74	43.0	0.0	LS SL-MOD SLTY TR ANHY SCT POR
215	2690	2691	2.47	2.46	2.25	15.6	2.74	39.2	0.0	LS SL-MOD SLTY TR ANHY SCT POR
216	2691	2692	1.32	1.31	0.56	12.1	2.77	37.9	0.0	LS SL-MOD SLTY ANHY INCL SCT POR
217	2692	2693	1.37	1.36	1.01	13.5	2.76	38.6	0.0	LS SL-MOD SLTY ANHY INCL SCT POR
218	2693	2694	1.67	1.60	0.98	16.0	2.77	34.6	0.0	LS SL-MOD SLTY ANHY INCL SCT POR
219	2694	2695	0.56	0.53	0.32	13.4	2.76	38.1	0.0	LS SL-MOD SLTY ANHY INCL SCT POR
220	2695	2696	0.61	0.60	0.55	15.6	2.76	34.6	0.0	LS SL-MOD SLTY ANHY INCL SCT POR
221	2696	2697	0.45	0.45	0.26	11.4	2.74	39.3	0.0	LS SL-MOD SLTY TR ANHY SCT POR
222	2697	2698	1.50	1.40	1.30	14.1	2.74	31.7	0.0	LS SL-MOD SLTY TR ANHY SCT POR
223	2698	2699	0.85	0.85	0.61	13.5	2.72	32.9	0.0	LS SL-MOD SLTY TR ANHY SCT POR
224	2699	2700	0.60	0.57	0.40	12.1	2.76	36.8	0.0	LS SL-MOD SLTY ANHY INCL SCT POR
225	2700	2701	1.26	1.21	0.97	14.1	2.75	35.0	0.0	LS SL-MOD SLTY TR ANHY SCT POR
226	2701	2702	1.32	1.31	1.04	14.3	2.75	33.3	0.0	LS SL-MOD SLTY TR ANHY SCT POR
227	2702	2703	1.09	0.96	0.84	13.9	2.72	34.5	0.0	LS SL-MOD SLTY TR ANHY SCT POR
228	2703	2704	0.45	0.39	0.32	12.3	2.74	37.6	0.0	LS SL-MOD SLTY TR ANHY SCT POR
229	2704	2705	0.36	0.27	0.25	11.4	2.72	39.2	0.0	LS SL-MOD SLTY TR ANHY SCT POR
230	2705	2706	0.53	0.52	0.43	13.5	2.74	35.5	0.0	LS SL-MOD SLTY TR ANHY SCT POR

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H

County: STEVENS COUNTY, KANSAS

FULL DIAMETER CORE ANALYSIS

Formation: CHASE - PANOMA COUNCIL GROVE

Location: 1390 FSL 1390 FWL SEC 4 T33S R38W

Date: 08-11-94

Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY
			Kmax	K90	Kvert			H2O	OIL	
231	2706	2707	0.18	0.16	0.12	10.3	2.73	45.9	0.0	LS SL-MOD SLTY TR ANHY SCT POR
232	2707	2708	0.39	0.38	0.30	11.9	2.71	37.5	0.0	LS SL-MOD SLTY TR ANHY SCT POR
233	2708	2709	0.19	0.17	0.12	10.5	2.72	46.5	0.0	LS SL-MOD SLTY TR ANHY SCT POR
234	2709	2710	0.12	0.12	0.09	9.0	2.74	82.5	0.0	LS SL-MOD SLTY TR ANHY SCT POR
235	2710	2711	0.09	0.08	0.11	10.7	2.76	87.6	0.0	LS MOD SLTY TR-SL ANHY SCT POR
236	2711	2712	0.44	0.06	0.06	11.0	2.75	90.9	0.0	LS MOD SLTY TR-SL ANHY SCT POR
237	2712	2713	0.06	0.06	0.09	10.8	2.74	95.6	0.0	LS MOD SLTY TR ANHY SCT POR
238	2713	2714	0.12	0.10	0.10	9.7	2.70	98.3	0.0	LS SLTY SHLY TR ANHY SCT-TR POR
239	2714	2715	1.75	0.15	0.04	7.3	2.72	98.6	0.0	LS SLTY SHLY TR ANHY SCT-TR POR
240	2715	2716	0.16	0.08	0.04	7.5	2.67	94.8	0.0	LS SLTY SHLY TR ANHY SCT-TR POR
241	2716	2717	7.82	4.09	0.06	7.2	2.68	95.2	0.0	LS SLTY SHLY TR ANHY SCT-TR POR
242	2717	2718	0.65	0.58	0.03	8.5	2.66	94.4	0.0	LS SLTY SHLY TR ANHY SCT-TR POR
243	2718	2719	1.50	0.10	0.04	8.3	2.69	66.8	0.0	LS MOD SLTY TR SHLY TR-SCT POR
244	2719	2720	2.60	2.13	0.03	7.5	2.66	91.1	0.0	LS SLTY SL SHLY TR-SCT PPP
245	2720	2721	0.08	0.04	0.06	8.3	2.66	87.1	0.0	LS SLTY SL SHLY TR-SCT PPP
246	2721	2722	0.75	0.27	0.06	7.7	2.65	91.0	0.0	LS SLTY SL SHLY TR-SCT PPP
247	2722	2723	0.51	0.48	0.10	7.6	2.66	88.9	0.0	LS SLTY SL SHLY TR-SCT PPP
248	2723	2724	0.38	0.07	0.06	8.2	2.71	54.7	0.0	LS MOD SLTY TR SHLY TR-SCT POR
249	2724	2725	1.51	0.88	0.05	8.2	2.66	89.4	0.0	LS SLTY SL SHLY TR-SCT PPP
250	2725	2726	0.05	0.05	0.12	6.1	2.65	82.6	0.0	LS SLTY SL SHLY TR-SCT PPP
251	2726	2727	0.06	0.06	0.15	6.1	2.63	85.7	0.0	SH LTGY-GY SLTY TR SDY
252	2727	2728	1.26	0.77	0.06	6.2	2.65	84.6	0.0	LS SLTY SL SHLY TR-SCT PPP
253	2728	2729	23.16	15.30	0.15	6.2	2.68	86.5	0.0	LS SLTY SL SHLY TR-SCT PPP
254	2729	2730	42.50	27.90	1.25	6.8	2.69	98.3	0.0	LS MOD SLTY TR SHLY TR-SCT POR
255	2730	2731	0.04	0.03	0.03	4.5	2.66	93.8	0.0	LS SLTY SL SHLY TR-SCT PPP
256	2731	2732	7.65	6.61	0.17	5.9	2.68	91.8	0.0	LS MOD SLTY TR SHLY TR-SCT POR
257	2732	2733	0.09	0.06	0.08	4.3	2.68	91.4	0.0	LS MOD SLTY TR SHLY TR-SCT POR
258	2733	2734	2.42	2.11	0.03	3.6	2.67	98.7	0.0	LS MOD SLTY TR SHLY TR-SCT POR
259	2734	2735	0.71	0.39	0.12	5.0	2.70	97.8	0.0	LS MOD SLTY TR SHLY TR-SCT POR
260	2735	2736	0.14	0.13	0.12	8.7	2.72	45.1	0.0	LS MOD SLTY TR SHLY TR-SCT POR
261	2736	2737	0.21	0.20	0.23	8.1	2.73	30.5	0.0	LS MOD SLTY TR SHLY TR-SCT POR
262	2737	2738	0.08	0.07	0.10	5.1	2.69	92.0	0.0	LS MOD SLTY TR SHLY TR-SCT POR
263	2738	2739	0.13	0.06	0.12	6.3	2.70	93.6	0.0	LS MOD SLTY TR SHLY TR-SCT POR

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H

County: STEVENS COUNTY, KANSAS

FULL DIAMETER CORE ANALYSIS

Formation: CHASE - PANOMA COUNCIL GROVE

Location: 1390 FSL 1390 FWL SEC 4 T33S R38W

Date: 08-11-94

Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY	
			Kmax	K90	Kvert			H2O	OIL		
264	2739	2740	0.25	0.24	0.13	10.3	2.68	55.1	0.0	SS VFGR SLTY TR CALC INTGR POR	
265	2740	2741	0.34	0.34	0.12	10.1	2.68	48.0	0.0	SS VFGR SLTY TR CALC INTGR POR	
266	2741	2742	0.35	0.33	0.13	10.8	2.68	53.4	0.0	SS VFGR SLTY TR CALC INTGR POR	
267	2742	2743	0.11	0.09	0.09	9.0	2.69	94.7	0.0	SS VFGR SLTY TR CALC INTGR POR	
268	2743	2744	0.11	0.09	0.10	8.0	2.67	96.3	0.0	SS VFGR SLTY TR CALC TR INTGR POR	
269	2744	2745	0.08	0.08	0.12	8.5	2.67	94.3	0.0	SS VFGR SLTY TR CALC TR INTGR POR	
270	2745	2746	0.07	0.06	0.05	8.4	2.67	99.0	0.0	SS VFGR SLTY TR CALC TR INTGR POR	
271	2746	2747	16.40	8.69	0.07	8.1	2.67	89.5	0.0	SS VFGR SLTY TR CALC TR INTGR POR	
272	2747	2748	0.076	0.031	0.024	2.1	2.62	95.0	0.0	RDBD SLTY SL SDY SL CALC	
273	2748	2749	3.902	0.126	0.083	3.6	2.62	92.0	0.0	RDBD SLTY SL SDY SL CALC	
274	2749	2750	75.397	PLUG	N/A	10.2	2.77	90.1	0.0	RDBD SLTY TR SDY SHLY	
275	2750	2751	49.681	35.321	1.005	6.7	2.69	95.6	0.0	RDBD SLTY TR SDY SHLY	
276	2751	2752	*0.037	*0.035	15.116	6.9	2.70	95.6	0.0	RDBD SLTY TR SDY SHLY	
277	2752	2753	8.814	7.563	0.096	6.9	2.71	93.6	0.0	RDBD SLTY TR SDY SHLY	
278	2753	2754	0.024	0.023	0.011	1.9	2.62	97.1	0.0	RDBD SLTY TR SDY SHLY	
279	2754	2755	0.274	0.041	0.048	5.7	2.69	93.6	0.0	RDBD SLTY TR SDY SHLY	
280	2755	2756	121.044	74.737	43.214	10.3	2.72	89.3	0.0	RDBD SLTY TR SDY SHLY	
281	2756	2757	0.079	0.037	0.020	2.7	2.64	98.6	0.0	RDBD SLTY TR SDY SHLY	
	2757	2758	NO ANALYSIS								RDBD SLTY TR SDY SHLY
282	2758	2759	0.028	0.014	2.331	5.0	2.67	94.3	0.0	RDBD SLTY TR SDY SHLY	
283	2759	2760	11.332	4.272	0.060	4.2	2.66	95.9	0.0	RDBD SLTY TR SDY SHLY	
284	2760	2761	12.551	TBFA	46.051	5.1	2.74	88.0	0.0	RDBD SLTY TR SDY SHLY	
285	2761	2762	0.02	0.02	0.01	6.8	2.64	92.8	0.0	SH GY-LTGY SLTY TR SDY	
286	2762	2763	23.848	12.841	3.288	16.2	2.81	74.9	0.0	RDBD SLTY TR SDY SHLY	
287	2763	2764	2.26	0.92	0.41	14.9	2.80	56.2	0.0	LS SL-MOD SLTY TR ANHY SCT POR	
288	2764	2765	0.14	0.14	0.14	9.5	2.73	39.2	0.0	LS SL-MOD SLTY TR ANHY SCT POR	
289	2765	2766	0.10	0.10	0.14	9.2	2.72	46.1	0.0	LS SL SLTY TR ANHY SCT POR	
290	2766	2767	0.08	0.07	0.09	9.1	2.71	48.6	0.0	LS SL SLTY TR ANHY SCT POR	
291	2767	2768	0.19	0.09	0.11	6.8	2.70	77.0	0.0	LS SL SLTY TR ANHY SCT POR	
292	2768	2769	0.08	0.07	0.09	7.3	2.70	80.6	0.0	LS SL SLTY TR ANHY SCT POR	
293	2769	2770	0.14	0.07	0.10	7.3	2.72	80.6	0.0	LS SL SLTY TR ANHY SCT POR	
294	2770	2771	0.14	0.12	0.10	8.8	2.70	68.2	0.0	LS SL SLTY TR ANHY SCT POR	
295	2771	2772	0.04	0.03	0.03	4.1	2.70	92.9	0.0	LS SL SLTY TR ANHY SCT POR	

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H
 County: STEVENS COUNTY, KANSAS
 FULL DIAMETER CORE ANALYSIS

Formation: CHASE - PANOMA COUNCIL GROVE
 Location: 1390 FSL 1390 FWL SEC 4 T33S R38W
 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY
			Kmax	K90	Kvert			H2O	OIL	
296	2772	2773	0.11	0.04	0.10	5.4	2.69	89.3	0.0	LS SL SLTY TR ANHY SCT POR
297	2773	2774	0.26	0.15	0.05	9.7	2.67	81.1	0.0	LS SL SLTY SL SHLY TR POR
298	2774	2775	0.18	0.16	0.07	5.8	2.70	83.7	0.0	LS SL SLTY TR ANHY SCT POR
299	2775	2776	0.12	0.12	0.09	12.2	2.68	80.5	0.0	LS SL SLTY TR ANHY SCT POR
300	2776	2777	0.01	<0.01	0.02	6.0	2.56	97.6	0.0	LS SL SLTY TR ANHY SCT POR
301	2777	2778	0.09	0.08	0.08	9.8	2.70	78.0	0.0	LS SL SLTY TR ANHY SCT POR
302	2778	2779	0.09	0.06	0.10	7.2	2.70	84.7	0.0	LS SL SLTY TR ANHY TR-SCT POR
303	2779	2780	0.06	0.05	0.04	6.0	2.69	84.8	0.0	LS SL SLTY TR ANHY TR POR
304	2780	2781	0.07	0.05	0.06	6.1	2.70	88.4	0.0	LS SL SLTY TR ANHY TR POR
305	2781	2782	0.05	0.05	0.03	5.0	2.69	77.7	0.0	LS SL SLTY TR ANHY TR POR
306	2782	2783	0.03	0.03	0.03	4.8	2.72	79.5	0.0	LS SL SLTY TR ANHY TR POR
307	2783	2784	0.03	0.02	0.02	2.0	2.67	96.1	0.0	LS SL SLTY SL SHLY TR POR
309	2784	2785	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA	SH GY SL SLTY BRITTLE
	2785	2786	0.443	PLUG	N/A	7.3	2.73	98.4	0.0	RDBD SLTY SL SDY SL CALC
	2786	2787								RDBD SLTY SL SDY SHLY SL CALC
	2787	2788								RDBD SLTY SL SDY SHLY SL CALC
310	2788	2789	0.046	0.037	0.009	2.3	2.57	97.0	0.0	RDBD SLTY SL SDY SHLY SL CALC
311	2789	2790	0.050	0.045	0.018	3.5	2.59	93.6	0.0	RDBD SLTY SL SDY SHLY SL CALC
312	2790	2791	0.305	0.208	0.146	6.6	2.60	55.3	0.0	RDBD SLTY SL SDY SHLY SL CALC
313	2791	2792	0.649	0.597	0.165	8.9	2.60	47.9	0.0	RDBD SLTY SL SDY SHLY SL CALC
314	2792	2793	4.027	3.831	1.151	11.4	2.71	45.2	0.0	RDBD SLTY SL SDY MOD CALC
315	2793	2794	3.891	3.886	0.349	7.2	2.66	44.7	0.0	RDBD SLTY SL SDY SHLY SL CALC
316	2794	2795	1.606	1.371	0.324	6.7	2.70	55.5	0.0	RDBD SLTY SL SDY MOD CALC
317	2795	2796	1.185	1.184	0.237	5.7	2.68	53.6	0.0	RDBD SLTY SL SDY MOD CALC
318	2796	2797	0.076	0.075	0.012	2.3	2.54	84.8	0.0	RDBD SLTY SL SDY SHLY SL CALC
319	2797	2798	0.196	0.178	0.144	7.0	2.62	58.5	0.0	RDBD SLTY SL SDY SHLY SL CALC
320	2798	2799	0.756	0.684	0.023	5.1	2.64	73.9	0.0	RDBD SLTY SL SDY SHLY SL CALC
321	2799	2800	0.059	0.057	0.036	2.5	2.63	76.5	0.0	RDBD SLTY SL SDY SHLY SL CALC
	2800	2801								RDBD SLTY SL SDY SHLY SL CALC
322	2801	2802	0.029	0.027	0.060	2.7	2.57	81.4	0.0	RDBD SLTY SL SDY SHLY SL CALC
323	2802	2803	0.045	0.043	0.063	4.0	2.60	65.5	0.0	RDBD SLTY SL SDY SHLY SL CALC
324	2803	2804	0.043	0.038	0.070	4.8	2.61	76.9	0.0	RDBD SLTY SL SDY SHLY SL CALC
325	2804	2805	0.056	0.054	0.006	3.9	2.64	84.6	0.0	RDBD SLTY SL SDY SHLY SL CALC

ANADARKO PETROLEUM

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 Location: 1390 FSL 1390 FWL SEC 4 T33S R38W
 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH	PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY	
		Kmax	K90	Kvert			H2O	OIL		
326	2805	2806	0.185	0.077	0.017	5.7	2.67	64.2	0.0	RDBD SLTY SL SDY SHLY MOD CALC
	2806	2807	NO ANALYSIS							RDBD SLTY SL SDY SHLY MOD CALC
327	2807	2808	0.065	0.064	0.031	1.3	2.57	94.4	0.0	RDBD SLTY SL SDY SHLY SL CALC
328	2808	2809	0.04	PLUG	N/A	7.8	2.73	83.9	0.0	RDBD SDY SLTY SHLY SL CALC
329	2809	2810	0.05	PLUG	N/A	8.8	2.78	88.8	0.0	RDBD SDY SL SLTY SL CALC SL ANHY
330	2810	2811	0.03	PLUG	N/A	12.7	2.79	90.0	0.0	SS VFGR SLTY ANHY INCL SHLY INTGR POR
331	2811	2812	44.48	0.68	1.45	12.3	2.81	92.9	0.0	SS VFGR SLTY ANHY INCL SHLY INTGR POR
332	2812	2813	7.71	6.29	0.13	6.1	2.76	92.7	0.0	LS SL SDY SL SLTY ANHY INCL TR POR
333	2813	2814	0.10	0.03	0.01	2.3	2.78	90.3	0.0	LS SL SDY SL SLTY ANHY INCL TR POR
334	2814	2815	0.08	0.07	0.07	4.5	2.80	88.6	0.0	LS SL SDY SL SLTY ANHY INCL TR POR
335	2815	2816	0.12	0.11	0.11	10.9	2.81	91.1	0.0	SLTST SL SDY SL SHLY ANHY INCL
336	2816	2817	0.22	0.08	0.05	8.0	2.78	87.7	0.0	SH GYGN-LTGY SLTY TR SDY ANHY INCL
337	2817	2818	0.41	0.38	0.05	7.9	2.76	88.7	0.0	SH GYGN-LTGY SLTY TR SDY ANHY INCL
338	2818	2819	52.15	34.94	0.03	8.4	2.76	91.3	0.0	SH GYGN-LTGY SLTY TR SDY ANHY INCL
339	2819	2820	TBFA	Kplug	0.26	7.5	2.68	85.8	0.0	SH GYGN-LTGY SLTY TR SDY ANHY INCL
340	2820	2821	0.45	0.28	<0.01	3.6	2.69	87.9	0.0	LS SL SLTY TR SDY TR FOS TR SH TR POR
341	2821	2822	0.05	0.03	4.00	0.8	2.68	96.2	0.0	LS TR SLTY TR SDY TR FOS TR POR-DNS
342	2822	2823	0.77	0.05	0.05	1.4	2.70	94.2	0.0	LS TR SLTY TR SDY TR FOS TR POR-DNS
343	2823	2824	39.46	9.64	0.01	3.5	2.66	92.3	0.0	LS SL SLTY TR SDY SL SHLY TR POR
344	2824	2825	59.82	52.45	0.10	6.8	2.73	87.0	0.0	LS SLTY SL SHLY TR FOS TR POR
345	2825	2826	14.96	2.45	0.02	4.5	2.69	92.3	0.0	LS SL SLTY TR SDY TR ANHY FRAC TR POR
346	2826	2827	0.02	0.02	0.02	0.5	2.67	97.8	0.0	LS SL SLTY TR SDY TR ANHY TR FOS TR POR
347	2827	2828	0.02	0.02	<0.01	1.1	2.69	93.0	0.0	LS SL SLTY TR SDY TR ANHY TR FOS TR POR
348	2828	2829	2.38	0.11	0.02	0.9	2.66	95.1	0.0	LS SL SLTY TR SDY TR SH FRAC TR POR
	2829	2830	NO ANALYSIS							SH DKGY-GY SL SLTY SL CALC
	2830	2831	NO ANALYSIS							SH DKGY-GY SL SLTY SL CALC
	2831	2832	NO ANALYSIS							SH DKGY-GY SL SLTY SL CALC
	2832	2833	NO ANALYSIS							SH DKGY-GY SL SLTY SL CALC
	2833	2834	NO ANALYSIS							SH DKGY-GY SL SLTY SL CALC
349	2834	2835	3.78	2.91	0.03	5.9	2.66	84.9	0.0	SS VFGR SLTY TR SH SL CALC TR INTGR POR
350	2835	2836	2.58	1.11	0.02	5.1	2.65	85.6	0.0	SS VFGR SLTY TR SH SL CALC TR INTGR POR
351	2836	2837	2.14	1.72	0.12	6.9	2.65	84.6	0.0	SS VFGR SLTY TR SH SL CALC TR INTGR POR
352	2837	2838	0.09	0.05	0.02	5.5	2.59	85.5	0.0	SS VFGR SLTY SHLY SL CALC TR INTGR POR

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H
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 Location: 1390 FSL 1390 FWL SEC 4 T33S R38W
 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH	PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY	
		Kmax	K90	Kvert			H2O	OIL		
353	2838	2839	0.04	0.03	0.02	4.5	2.62	90.4	0.0	SS VFGR SLTY SHLY SL CALC TR INTGR POR
354	2839	2840	7.06	Kplug	0.01	5.9	2.67	86.2	0.0	LS MOD SDY SLTY SHLY TR POR
355	2840	2841	0.01	Kplug	0.01	5.9	2.66	85.7	0.0	SS VFGR SLTY SL - MOD CALC SHLY TR POR
356	2841	2842	10.16	8.94	0.06	7.9	2.64	86.7	0.0	SS VFGR SLTY SL SHLY SL CALC INTGR POR
357	2842	2843	3.80	2.57	0.05	8.7	2.65	90.1	0.0	SS VFGR SLTY SL SHLY SL CALC INTGR POR
	2843	2844	NO ANALYSIS							SH DKGY - GY SL SLTY SL CALC
	2844	2845	NO ANALYSIS							SH DKGY - GY SL SLTY SL CALC
358	2845	2846	85.93	38.01	4.01	6.8	2.71	86.0	0.0	SS VFGR SLTY SL SHLY ANHY INCL INTGR POR
359	2846	2847	TBFA	Kplug	0.02	5.8	2.68	86.3	0.0	SS VFGR SLTY SHLY MOD CALC TR POR
360	2847	2848	0.15	0.14	0.01	1.8	2.65	86.8	0.0	SS VFGR MOD SLTY SL CALC TR POR - DNS
361	2848	2849	0.01	0.01	<0.01	1.7	2.68	92.1	0.0	LS SL SDY SL SLTY TR POR
362	2849	2850	0.06	0.02	<0.01	1.6	2.68	92.0	0.0	LS SL SDY SL SLTY TR POR
363	2850	2851	TBFA	Kplug	TBFA	9.0	2.68	90.3	0.0	SH GY - LTGY SLTY CALC
364	2851	2852	8.96	Kplug	4.01	7.8	2.75	94.8	0.0	SH GY - LTGY SLTY CALC
	2852	2853	NO ANALYSIS							RDBD SLTY SL SDY SHLY
	2853	2854	NO ANALYSIS							RDBD SLTY SL SDY SHLY
365	2854	2855	2.156	0.614	2.228	2.1	2.62	95.2	0.0	RDBD SLTY SL SDY SHLY
366	2855	2856	TBFA	Kplug	TBFA	3.0	2.62	96.4	0.0	RDBD SLTY SL SDY SHLY
367	2856	2857	1.427	0.241	0.290	3.4	2.58	91.4	0.0	RDBD SLTY SL SDY SHLY
368	2857	2858	0.087	Kplug	TBFA	2.3	2.57	96.5	0.0	RDBD SLTY SL SDY SHLY
369	2858	2859	0.654	0.368	TBFA	2.5	2.66	94.6	0.0	RDBD SLTY SL SDY SHLY
370	2859	2860	3.68	0.85	0.14	6.4	2.71	98.2	0.0	SH GY - LTGY SL SDY SL ANHY
371	2860	2861	0.025	0.013	0.025	1.2	2.61	94.6	0.0	RDBD SL SDY SLTY SL CALC SL SHLY
372	2861	2862	0.025	0.022	0.011	1.9	2.64	96.0	0.0	RDBD SLTY SL SDY SL SHLY SL CALC
373	2862	2863	0.031	0.028	0.099	3.4	2.61	50.3	0.0	RDBD SLTY SL SDY SL SHLY SL CALC
374	2863	2864	0.029	0.027	0.021	3.3	2.57	71.2	0.0	RDBD SLTY SL SDY SHLY SL CALC
375	2864	2865	0.059	Kplug	0.027	3.0	2.56	91.7	0.0	RDBD SLTY SL SDY SHLY SL CALC
376	2865	2866	*1.268	*0.47	0.020	1.8	2.60	94.9	0.0	RDBD SLTY SL SDY SHLY SL CALC
377	2866	2867	4.102	0.921	0.060	1.4	2.61	96.0	0.0	RDBD SHLY SLTY TR SDY TR - SL CALC
378	2867	2868	8.49	1.70	0.01	2.5	2.69	93.4	0.0	LS SL SLTY SH PTG TR POR
379	2868	2869	0.05	0.05	0.04	7.5	2.70	73.8	0.0	LS SL SLTY SH PTG TR POR
380	2869	2870	1.77	1.75	0.88	8.5	2.71	41.7	0.0	LS SL SLTY TR FOS SCT - TR POR
381	2870	2871	11.93	11.29	12.38	11.8	2.72	38.0	0.0	LS SL SLTY TR FOS SCT POR

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H
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 FULL DIAMETER CORE ANALYSIS

Formation: CHASE - PANOMA COUNCIL GROVE
 Location: 1390 FSL 1390 FWL SEC 4 T33S R38W
 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY
			Kmax	K90	Kvert			H2O	OIL	
382	2871	2872	5.87	5.87	5.38	10.8	2.73	39.3	0.0	LS SL SLTY TR FOS SCT POR
383	2872	2873	0.04	0.03	0.04	2.1	2.71	71.8	0.0	LS TR SLTY TR FOS TR POR
384	2873	2874	4.21	2.64	0.05	3.7	2.70	81.1	0.0	LS TR SLTY TR FOS TR POR
385	2874	2875	0.07	0.05	0.02	2.9	2.70	85.2	0.0	LS TR SLTY TR FOS TR POR
386	2875	2876	1.47	0.90	0.71	14.8	2.67	72.3	0.0	LS TR SLTY TR CLY TR FOS SCT POR
387	2876	2877	0.59	0.57	0.28	14.2	2.71	54.7	0.0	LS TR SLTY TR FOS SCT POR
388	2877	2878	6.42	5.64	0.47	8.7	2.79	45.3	0.0	LS SL SLTY TR FOS ANHY INCL SCT-TR POR
389	2878	2879	1.29	1.03	0.37	8.3	2.72	55.3	0.0	LS TR SLTY TR FOS TR POR
390	2879	2880	3.06	2.73	0.12	4.5	2.80	56.2	0.0	LS SL SLTY TR FOS ANHY INCL SCT-TR POR
391	2880	2881	0.21	0.20	9.70	8.6	2.71	55.3	0.0	LS TR SLTY TR FOS TR POR
392	2881	2882	0.67	0.38	0.93	9.7	2.72	50.3	0.0	LS TR SLTY TR FOS TR POR
393	2882	2883	0.24	0.18	0.28	10.3	2.72	71.0	0.0	LS TR SLTY TR FOS TR POR
394	2883	2884	0.09	0.06	0.10	6.7	2.71	77.7	0.0	LS TR SLTY TR FOS TR POR
395	2884	2885	0.06	0.06	0.04	4.6	2.72	77.8	0.0	LS TR SLTY TR FOS TR POR
396	2885	2886	0.08	0.05	0.09	3.2	2.70	84.9	0.0	LS TR SLTY TR FOS TR POR
397	2886	2887	0.03	PLUG	N/A	6.0	2.71	90.8	0.0	LS SL SLTY TR FOS TR POR
398	2887	2888	0.04	PLUG	N/A	7.3	2.73	92.3	0.0	LS SL-MOD SLTY TR FOS TR POR
399	2888	2889	0.036	PLUG	N/A	6.9	2.73	80.1	0.0	RDBD SL-MOD CALC SLTY
400	2889	2890	0.375	PLUG	N/A	12.8	2.73	86.8	0.0	RDBD SLTY TR SDY SHLY
401	2890	2891	8.424	2.849	0.065	6.3	2.65	96.9	0.0	RDBD SLTY TR SDY TR CALC SHLY
	2891	2892								RDBD SLTY TR SDY TR CALC SHLY
402	2892	2893	7.80	6.33	0.11	2.4	2.79	76.7	0.0	LS SHLY ANHY INCL TR SLTY TR POR
403	2893	2894	1.76	1.72	0.04	3.7	2.75	79.4	0.0	LS SL ANHY SL SHLY SL SLTY TR POR
404	2894	2895	5.14	5.03	2.19	11.7	2.74	42.1	0.0	LS SL ANHY TR FOS SL SHLY SCT POR
405	2895	2896	0.07	0.07	0.08	2.6	2.75	75.8	0.0	LS SL ANHY TR SLTY TR FOS TR POR
406	2896	2897	0.05	0.05	0.06	6.6	2.69	87.5	0.0	LS TR SLTY TR FOS SCT-TR POR
407	2897	2898	0.14	0.13	0.13	8.8	2.70	90.5	0.0	LS TR SLTY TR FOS SCT POR
408	2898	2899	0.14	0.13	0.11	8.3	2.72	87.2	0.0	LS TR SLTY TR FOS SCT POR
409	2899	2900	0.30	0.23	0.10	7.0	2.70	86.3	0.0	LS TR SLTY TR FOS SCT-TR POR
410	2900	2901	0.80	0.54	1.15	9.9	2.69	82.4	0.0	LS TR SLTY TR FOS SCT POR
411	2901	2902	0.04	0.04	0.02	2.6	2.69	86.9	0.0	LS TR SLTY TR FOS TR POR
412	2902	2903	0.24	0.05	0.02	2.1	2.66	96.0	0.0	LS SLTY SHLY TR FOS TR POR
413	2903	2904	20.28	0.15	0.02	5.5	2.68	94.0	0.0	LS SLTY SHLY FRAC TR POR

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SAMPLE NO.	DEPTH	PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY		
		Kmax	K90	Kvert			H2O	OIL			
414	2904	2905	2.223	0.275	0.133	10.4	2.74	87.5	0.0	RDBD MOD CALC SLTY TR SDY	
415	2905	2906	0.204	0.064	0.028	4.1	2.66	94.3	0.0	RDBD SLTY TR SDY SL CALC	
416	2906	2907	0.043	0.035	0.016	4.5	2.67	93.8	0.0	RDBD SLTY TR SDY SL CALC	
		2907 2908	NO ANALYSIS								RDBD SLTY SL SDY TR CALC SHLY
417	2908	2909	0.587	0.314	0.650	9.4	2.63	89.9	0.0	RDBD SLTY SL SDY TR CALC SHLY	
418	2909	2910	0.233	0.135	0.223	10.1	2.65	84.7	0.0	RDBD SLTY SL SDY TR CALC SHLY	
419	2910	2911	1.162	Kplug	103.379	12.1	2.69	87.6	0.0	RDBD SLTY SL SDY TR CALC SHLY	
420	2911	2912	0.174	0.146	0.151	10.6	2.65	91.9	0.0	RDBD SLTY TR - SL SDY SL CALC	
421	2912	2913	0.024	0.017	0.053	3.8	2.61	94.4	0.0	RDBD SLTY SL SDY SHLY SL CALC	
422	2913	2914	0.009	0.007	0.008	2.4	2.58	96.9	0.0	RDBD SLTY SL SDY SHLY SL CALC	
423	2914	2915	0.067	Kplug	0.021	6.7	2.65	98.8	0.0	RDBD SLTY SL SDY SHLY SL CALC	
424	2915	2916	TBFA	PLUG	N/A	8.2	2.72	84.5	0.0	RDBD SLTY SL SDY SHLY SL CALC FRAC	
425	2916	2917	0.32	0.31	0.08	6.6	2.71	56.3	0.0	LS TR SLTY TR ANHY TR FOS TR - SCT POR	
426	2917	2918	6.04	5.21	2.88	14.6	2.71	36.5	0.0	LS TR SLTY TR ANHY TR FOS SCT POR	
427	2918	2919	0.38	0.32	0.29	7.6	2.76	52.0	0.0	LS TR SLTY SL ANHY SL SHLY TR FOS TR POR	
428	2919	2920	0.07	0.07	0.09	6.8	2.73	79.3	0.0	LS TR SLTY SL ANHY SL SHLY TR FOS TR POR	
429	2920	2921	0.04	0.04	0.04	5.6	2.73	88.5	0.0	LS TR SLTY SL ANHY SL SHLY TR FOS TR POR	
430	2921	2922	0.378	0.258	0.309	15.1	2.76	85.9	0.0	RDBD SLTY SL SDY TR SHLY	
431	2922	2923	0.337	0.025	0.002	3.4	2.62	92.7	0.0	RDBD SLTY SL SDY SHLY SL CALC	
432	2923	2924	5.407	3.839	0.014	5.0	2.67	93.6	0.0	RDBD SLTY SL SDY SHLY SL CALC	
433	2924	2925	14.138	9.212	0.358	4.9	2.65	95.5	0.0	RDBD SLTY SL SDY SHLY SL CALC	
434	2925	2926	7.302	5.991	7.186	6.4	2.63	94.8	0.0	RDBD SLTY SL SDY SHLY SL CALC	
435	2926	2927	0.047	0.044	0.038	6.6	2.63	96.5	0.0	RDBD SLTY SL SDY SHLY SL CALC	
436	2927	2928	0.078	0.076	0.207	10.9	2.69	85.0	0.0	RDBD SHLY SLTY TR SDY SL CALC	
437	2928	2929	0.016	0.015	0.008	6.2	2.65	88.7	0.0	RDBD SHLY SLTY TR SDY SL CALC	
438	2929	2930	8.223	2.871	0.060	4.9	2.61	95.0	0.0	RDBD SHLY SLTY TR SDY SL CALC	
439	2930	2931	0.028	0.025	1.063	6.1	2.59	91.4	0.0	RDBD SHLY SLTY TR SDY SL CALC	
440	2931	2932	0.65	0.49	0.33	12.0	2.79	78.9	0.0	DOL SL - MOD CALC SL ANHY SCT POR	
441	2932	2933	0.22	0.21	0.41	6.9	2.74	65.4	0.0	LS TR DOL TR ANHY TR - SCT POR	
442	2933	2934	0.06	0.06	0.05	6.6	2.71	79.9	0.0	LS SLTY TR SHLY TR FOS TR POR	
443	2934	2935	0.22	0.02	0.01	3.1	2.73	91.0	0.0	LS SLTY TR SHLY TR FOS TR POR	
444	2935	2936	0.31	0.02	0.02	4.9	2.74	97.4	0.0	RDBD SLTY SHLY SL CALC	
445	2936	2937	0.235	0.08	0.289	11.6	2.73	89.2	0.0	RDBD SLTY SHLY SL CALC	

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H
 County: STEVENS COUNTY, KANSAS
 FULL DIAMETER CORE ANALYSIS

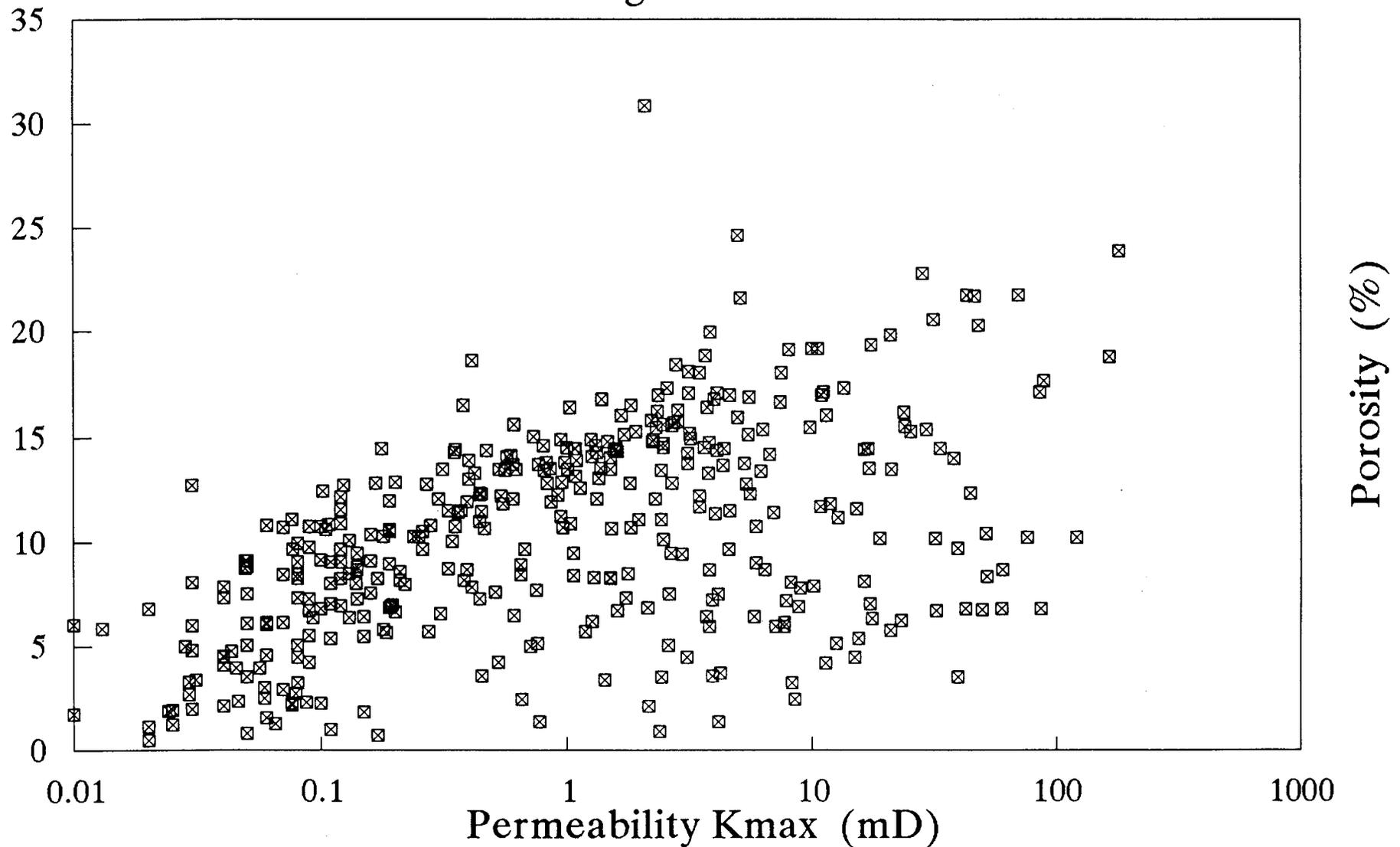
Formation: CHASE - PANOMA COUNCIL GROVE
 Location: 1390 FSL 1390 FWL SEC 4 T33S R38W
 Date: 08-11-94
 Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH		PERMEABILITY (mD)			POR %	GRAIN DENS	% FLUIDS		LITHOLOGY
			Kmax	K90	Kvert			H2O	OIL	
	2937	2938	NO ANALYSIS							RDBD SLTY SHLY SL CALC
	2938	2939	NO ANALYSIS							RDBD SLTY SHLY SL CALC
	2939	2940	NO ANALYSIS							RDBD SLTY SHLY SL CALC
446	2940	2941	1.571	PLUG	N/A	8.6	2.76	93.8	0.0	RDBD SLTY SHLY SL CALC
447	2941	2942	TBFA	TBFA	TBFA	11.1	2.76	94.1	0.0	RDBD SLTY SHLY SL CALC
448	2942	2943	54.786	43.978	42.350	11.4	2.77	93.3	0.0	RDBD SLTY SHLY SL CALC
449	2943	2944	15.537	10.618	3.491	7.1	2.81	96.8	0.0	RDBD SHLY SL CALC FRAC SL SLTY
450	2944	2945	2.20	1.68	2.82	11.4	2.72	54.4	0.0	LS SL SLTY TR FOS SCT POR
451	2945	2946	13.18	8.02	3.95	14.0	2.72	51.7	0.0	LS SL SLTY TR FOS SCT POR
452	2946	2947	19.59	4.38	31.29	14.0	2.75	50.7	0.0	LS SL SLTY TR FOS SCT POR
453	2947	2948	3.86	Kplug	22.25	14.0	2.72	91.3	0.0	LS SLTY SL SHLY SL FOS SCT POR
454	2948	2949	0.87	0.31	0.42	11.5	2.80	82.6	0.0	LS SL SLTY TR SHLY SL FOS SCT POR
455	2949	2950	0.27	0.24	0.36	10.5	2.89	87.1	0.0	LS LG ANHY INCL SL SLTY SL FOS SCT POR
456	2950	2951	0.72	0.67	0.47	14.1	2.82	88.6	0.0	LS ANHY INCL SL SLTY SL FOS SCT POR
457	2951	2952	0.44	0.43	0.17	12.1	2.76	89.3	0.0	LS SL ANHY SL SLTY SL FOS SCT POR
458	2952	2953	1.63	1.37	0.60	13.5	2.77	89.1	0.0	LS SL ANHY SL SLTY SL FOS SCT POR
459	2953	2954	1.33	1.31	0.83	14.1	2.74	89.9	0.0	LS SL ANHY SL SLTY SL FOS SCT POR
460	2954	2955	0.66	0.64	0.40	11.5	2.72	86.8	0.0	LS TR SLTY STYL TR FOS SCT POR
461	2955	2956	0.50	0.07	0.03	3.6	2.70	88.8	0.0	LS TR SLTY STYL TR FOS TR POR
462	2956	2957	0.04	0.04	0.03	3.7	2.71	66.5	0.0	LS TR SLTY STYL TR FOS TR POR
463	2957	2958	0.19	0.08	0.24	3.3	2.67	92.1	0.0	LS MOD SLTY SL SHLY TR FOS TR POR
464	2958	2959	3.57	1.52	<0.01	2.4	2.68	94.0	0.0	LS SLTY SL SHLY FOS TR POR
465	2959	2960	39.01	37.27	1.39	5.9	2.72	91.0	0.0	LS SLTY SL SHLY SL FOS TR POR

* - Permeability prior to extraction
 TBFA - Too Broken For Analysis
 Kplug - Permeability from plug sample
 PLUG - Plug Analysis
 N/A - No Analysis

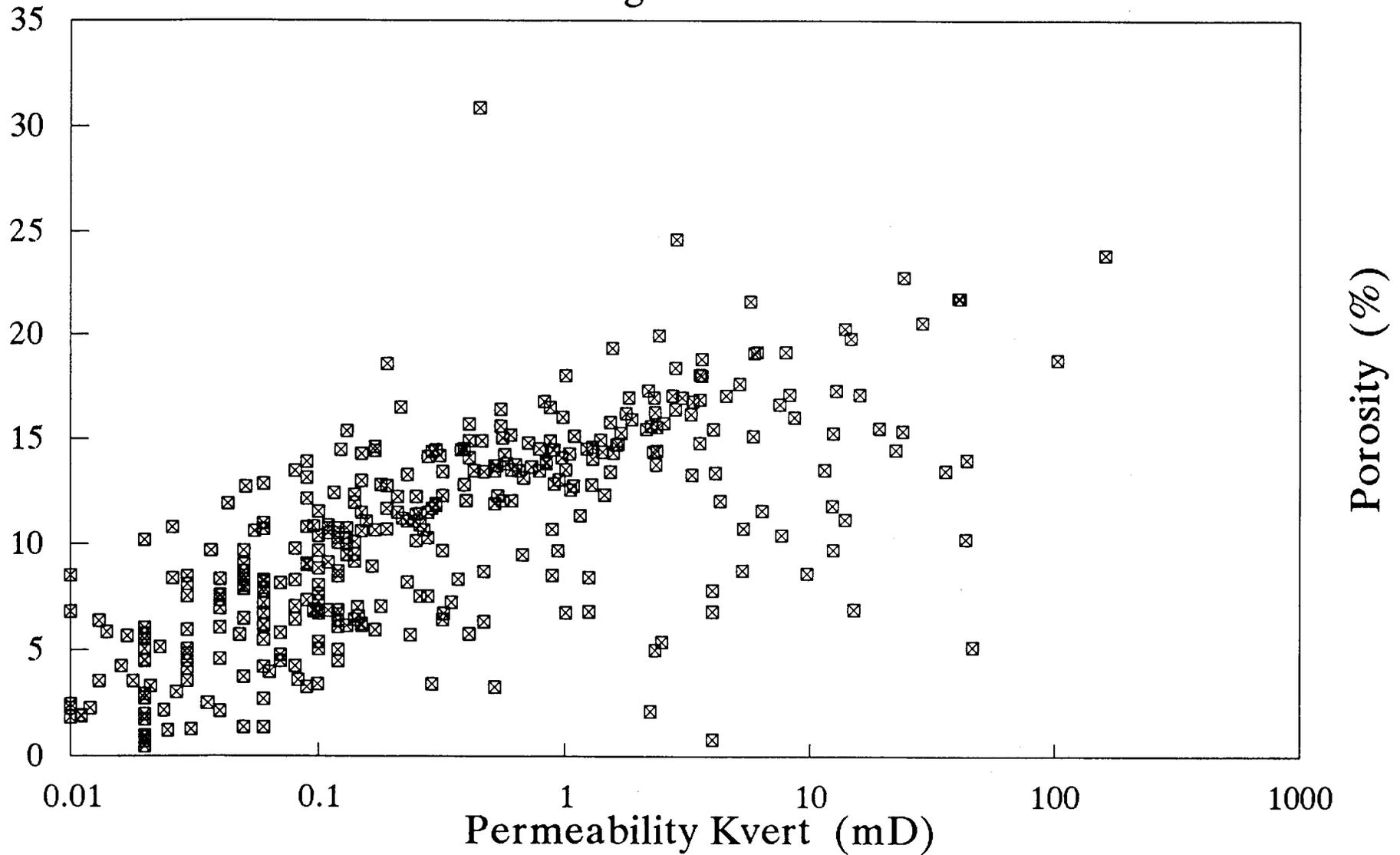
ANADARKO PETROLEUM

Youngren 'J' 1-H



ANADARKO PETROLEUM

Youngren 'J' 1-H



ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H

REDBED PERMEABILITY ANALYSIS

SAMPLE NO.	DEPTH		Before Extraction			After Extraction		
			Kmax	K90	Kvert	Kmax	K90	Kvert
67	2542	2543	0.048	0.043	0.128	0.076	0.073	0.245
68	2543	2544	0.070	0.063	0.036	0.170	0.131	0.080
69	2544	2545	0.734	0.035	0.105	0.077	0.065	0.037
70	2545	2546	0.048	0.026	0.066	0.108	0.105	0.096
71	2546	2547	0.428	0.042	0.024	0.278	0.117	0.026
72	2547	2548	0.060	0.040	0.051	2.418	0.111	0.156
73	2548	2549	0.053	0.046	0.017	TBFA	TBFA	0.043
74	2549	2550	0.045	0.031	0.062	0.102	0.082	0.116
77	2552	2553	47.806	46.498	95.743	180.447	179.413	160.893
78	2553	2554	39.471	36.497	50.878	164.387	161.764	102.630
80	2555	2556	0.063	0.053	0.039	0.105	0.080	0.055
81	2556	2557	0.065	0.064	0.058	0.376	0.359	0.216
116	2591	2592	0.085	0.070	**	TBFA	TBFA	TBFA
121	2596	2597	0.017	0.012	0.041	0.139	0.139	0.006
122	2597	2598	0.052	0.034	0.015	0.302	0.134	4.291
123	2598	2599	0.039	0.027	0.003	0.527	0.413	0.016
124	2599	2600	0.026	0.020	0.010	8.212	2.205	0.005
125	2600	2601	0.039	0.026	0.040	2.646	2.429	0.673
126	2601	2602	0.309	0.249	0.050	51.267	36.543	7.695
127	2602	2603	0.038	0.026	0.029	2.457	1.298	0.250
128	2603	2604	0.019	0.012	0.003	0.093	0.055	0.013
129	2604	2605	0.265	0.099	**	39.423	15.252	12.432
130	2605	2606	0.037	0.032	0.010	0.193	0.104	0.007
131	2606	2607	0.043	0.037	0.017	0.176	0.164	0.123
132	2607	2608	0.123	0.078	0.011	0.348	0.331	0.149
195	2670	2671	0.017	0.012	0.007	5.571	0.120	0.535
196	2671	2672	0.024	0.021	0.008	0.123	0.108	0.051
272	2747	2748	0.383	0.040	0.028	0.076	0.031	0.029
273	2748	2749	0.048	0.046	0.012	3.902	0.126	0.083
274	2749	2750	TBFA	TBFA	TBFA	75.397	PLUG	N/A
275	2750	2751	0.636	0.316	0.031	49.681	35.321	1.005
276	2751	2752	0.744	0.692	0.028	TBFA	TBFA	15.116
277	2752	2753	0.037	0.035	0.009	8.814	7.563	0.096
278	2753	2754	0.022	0.020	0.011	0.024	0.023	0.011
279	2754	2755	0.022	0.019	0.007	0.274	0.041	0.048
280	2755	2756	1.941	1.301	0.743	121.044	74.737	43.214
281	2756	2757	0.037	0.021	0.008	0.079	0.037	0.020
282	2758	2759	0.014	0.009	0.024	0.028	0.014	2.331
283	2759	2760	0.043	0.041	0.017	11.332	4.272	0.060
286	2762	2763	0.028	0.019	0.026	23.848	12.841	3.288
309	2785	2786	TBFA	TBFA	TBFA	0.443	PLUG	N/A
310	2788	2789	0.041	0.036	0.006	0.046	0.037	0.009
311	2789	2790	0.041	0.037	0.019	0.050	0.045	0.018
312	2790	2791	0.078	0.072	0.115	0.305	0.208	0.146
313	2791	2792	0.408	0.374	0.130	0.649	0.597	0.165
314	2792	2793	0.120	0.103	0.487	4.027	3.831	1.151
315	2793	2794	3.659	3.601	0.079	3.891	3.886	0.349
316	2794	2795	1.364	1.173	0.216	1.606	1.371	0.324
317	2795	2796	0.132	0.089	0.185	1.185	1.184	0.237

ANADARKO PETROLEUM

Well: YOUNGREN 'J' 1-H

REDBED PERMEABILITY ANALYSIS

SAMPLE NO.	DEPTH		Before Extraction			After Extraction		
			Kmax	K90	Kvert	Kmax	K90	Kvert
318	2796	2797	0.072	0.057	0.010	0.076	0.075	0.012
319	2797	2798	0.125	0.113	0.117	0.196	0.178	0.144
320	2798	2799	0.534	0.313	0.019	0.756	0.684	0.023
321	2799	2800	0.043	0.042	0.034	0.059	0.057	0.036
322	2801	2802	0.021	0.019	0.058	0.029	0.027	0.060
323	2802	2803	0.033	0.032	0.042	0.045	0.043	0.063
324	2803	2804	0.036	0.021	0.030	0.043	0.038	0.070
325	2804	2805	0.046	0.041	0.008	0.056	0.054	0.006
326	2805	2806	0.105	0.047	**	0.185	0.077	0.017
327	2807	2808	0.062	0.046	**	0.065	0.064	0.031
365	2854	2855	1.432	0.504	0.642	2.156	0.614	2.228
366	2855	2856	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA
367	2856	2857	0.696	0.228	0.219	1.427	0.241	0.290
368	2857	2858	TBFA	TBFA	TBFA	TBFA	TBFA	TBFA
369	2858	2859	0.154	0.089	**	0.654	0.368	TBFA
371	2860	2861	0.019	0.016	0.017	0.025	0.013	0.025
372	2861	2862	0.020	0.019	0.009	0.025	0.022	0.011
373	2862	2863	0.030	0.021	0.033	0.031	0.028	0.099
374	2863	2864	0.028	0.026	0.011	0.029	0.027	0.021
375	2864	2865	TBFA	TBFA	TBFA	0.059	Kplug	0.027
376	2865	2866	1.268	0.470	0.015	TBFA	TBFA	0.020
377	2866	2867	3.724	0.838	0.023	4.102	0.921	0.060
401	2890	2891	0.118	0.077	0.051	8.424	2.849	0.065
414	2904	2905	0.028	0.028	0.038	2.223	0.275	0.133
415	2905	2906	0.077	0.030	0.019	0.204	0.064	0.028
416	2906	2907	0.030	0.028	0.008	0.043	0.035	0.016
417	2908	2909	0.046	0.045	0.056	0.587	0.314	0.650
418	2909	2910	0.041	0.031	0.094	0.233	0.135	0.223
419	2910	2911	0.241	0.090	0.102	1.162	Kplug	103.379
420	2911	2912	0.047	0.035	0.138	0.174	0.146	0.151
421	2912	2913	0.013	0.009	0.031	0.024	0.017	0.053
422	2913	2914	0.024	0.023	0.045	0.009	0.007	0.008
423	2914	2915	TBFA	TBFA	TBFA	0.067	Kplug	0.021
430	2921	2922	0.085	0.045	0.115	0.378	0.258	0.309
431	2922	2923	0.039	0.017	0.004	0.337	0.025	0.002
432	2923	2924	0.402	0.046	0.050	5.407	3.839	0.014
433	2924	2925	1.250	1.121	0.059	14.138	9.212	0.358
434	2925	2926	1.166	0.571	0.174	7.302	5.991	7.186
435	2926	2927	0.018	0.018	0.046	0.047	0.044	0.038
436	2927	2928	0.030	0.028	0.092	0.078	0.076	0.207
437	2928	2929	0.014	0.014	0.004	0.016	0.015	0.008
438	2929	2930	0.027	0.012	0.003	8.223	2.871	0.06
439	2930	2931	0.030	0.017	0.005	0.028	0.025	1.063
445	2936	2937	0.040	0.037	0.034	0.235	0.08	0.289
447	2941	2942	1.459	1.274	0.893	TBFA	TBFA	TBFA
448	2942	2943	3.163	1.568	0.262	54.786	43.978	42.350
449	2943	2944	8.400	5.603	0.814	15.537	10.618	3.491

** - Irregular Shape

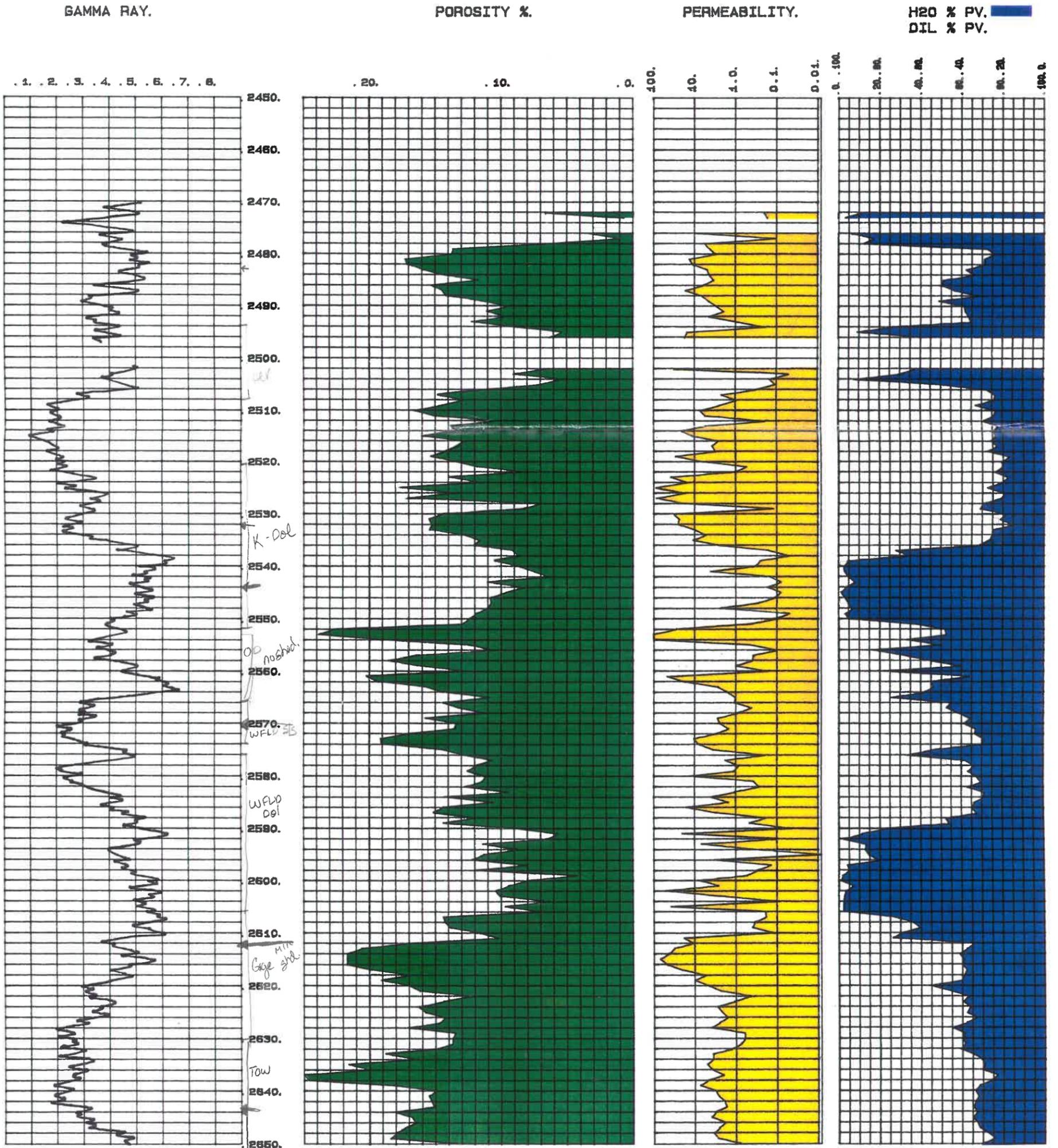
TBFA - Too Broken For Analysis

RESERVOIRS, INCORPORATED.

COMPANY: ANADARKO PETROLEUM
 WELL: YOUNGREN 'J' 1-H
 FIELD: HUGOTON
 COUNTY: STEVENS STATE: KANSAS
 LOCATION: 1390 FSL 1390 FWL SEC 4 T33S R38W
 API NO.:

FORMATION: CHASE - COUNCIL GROVE
 CORING FLUID: FOAM

FILE NO.: RMC119
 DATE: 08-11-94
 ELEV.: KB 1385.2
 CORED BY: WEATHERFORD
 ANALYST: DAVID FLOYD

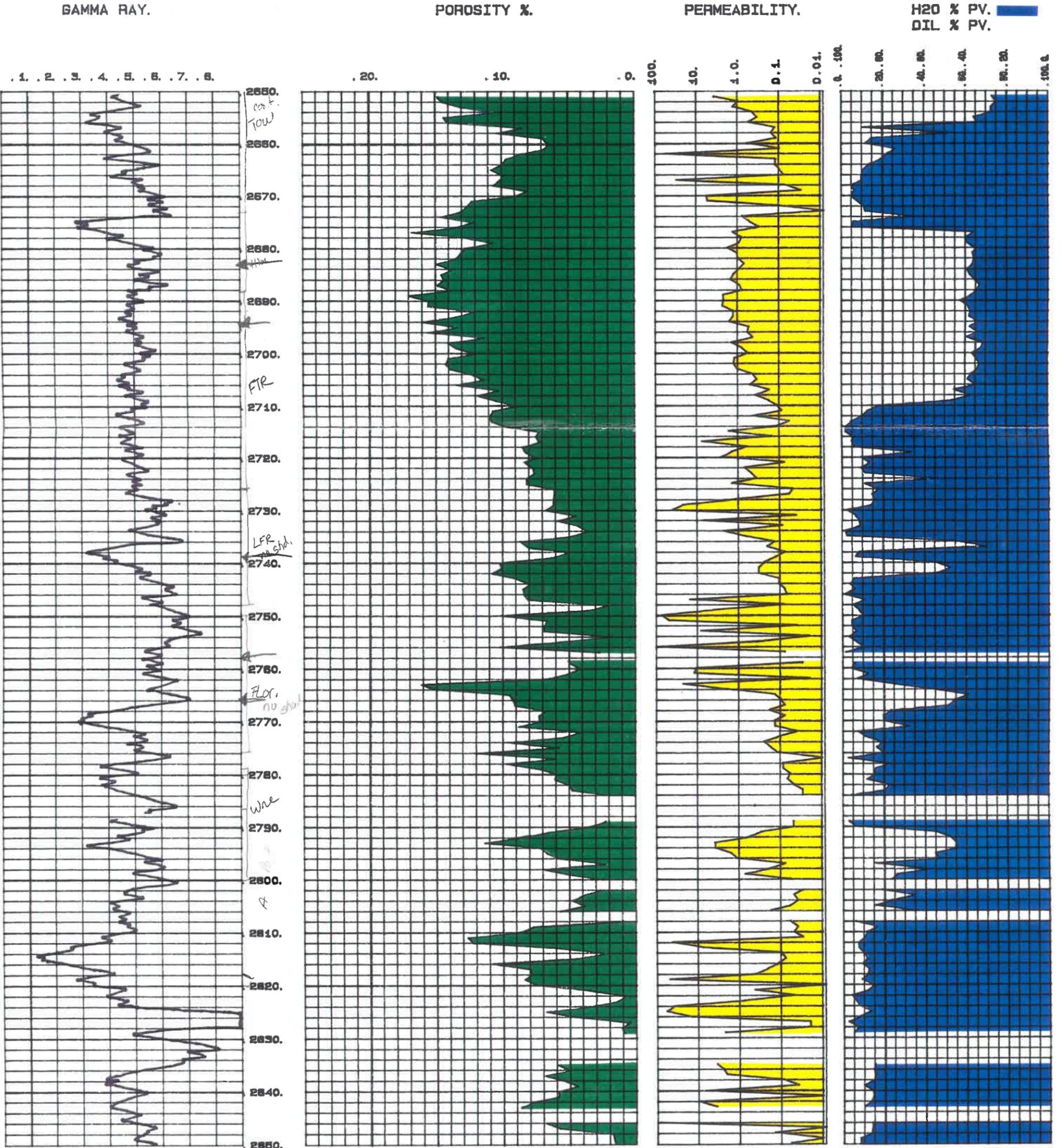


RESERVOIRS, INCORPORATED.

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 WELL: YOUNGREN 'J' 1-H
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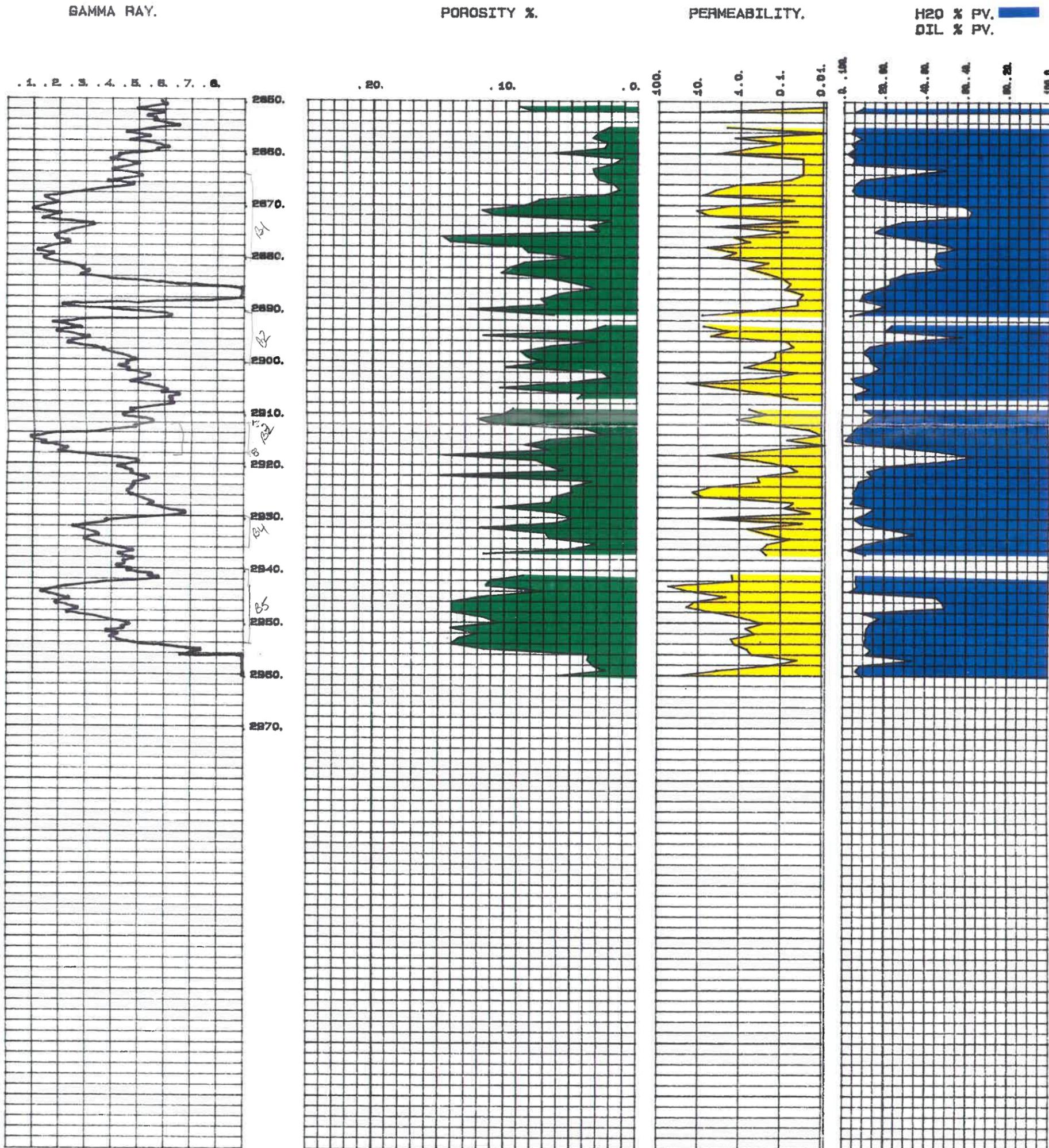


RESERVOIRS, INCORPORATED.

COMPANY: ANADARKO PETROLEUM
 WELL: YOUNGREN 'J' 1-H
 FIELD: HUGOTON
 COUNTY: STEVENS
 LOCATION: 1390 FSL 1390 FWL SEC 4 T33S R38W
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FORMATION: CHASE - COUNCIL GROVE
 CORING FLUID: FOAM

FILE NO.: FMC119
 DATE: 08-11-94
 ELEV.: KB 1985.2
 CORED BY: WEATHERFORD
 ANALYST: DAVID FLOYD



NOMENCLATURE

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

O	Oil	tex	Texture
ool	Oolitic	tr	Trace
opq	Opaque	transl	Translucent
orng	Orange	Transp	Transparent
		trip	Tripolitic
ptg	Parting		
plty	Platey	uncons	Unconsolidated
p	Poor	up	Upper
por	Porosity		
pos	Possible	vert	Vertical
pur	Purple	vis	Visible
pred	Predominant(ly)	v	Very
pyr	Pyrite	vit	Vitreous
		vug	Vug(gy)
qtz	Quartz		
		wxy	Waxy
rr	Rare(ly)	w/	With
rexl	Recrystallized	w/o	With Out
rd	Red	wh	White
res	Residual	wk	Weak
rnd	Round(ed)		
ROP	Rate of Penetration	yel	Yellow
		zn	Zone
sdv	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)		