

# WOODSIDE ENERGY LIMITED

## THYLACINE- 2

### CORE # 1

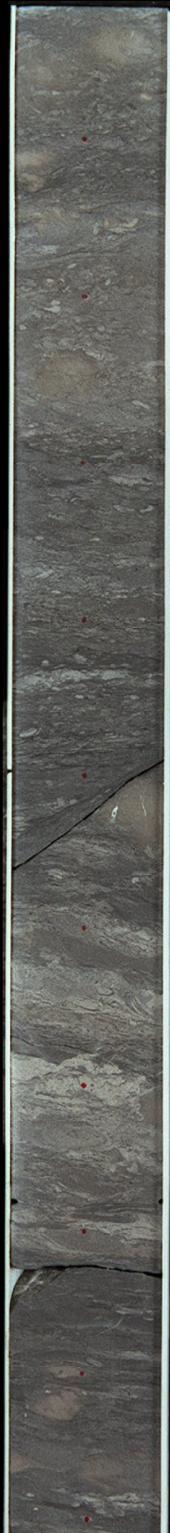
2154.00m

2155.00m

00

2156.00m

2157.00m



50

100

# WOODSIDE ENERGY LIMITED

## THYLACINE- 2

### CORE # 1

2158.00m

2159.00m

00

2160.00m

2161.00m



50

100



WOODSIDE ENERGY LIMITED

THYLACINE- 2

CORE # 1

2162.00m



2163.00m



00

2164.00m



2165.00m



50

100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 1

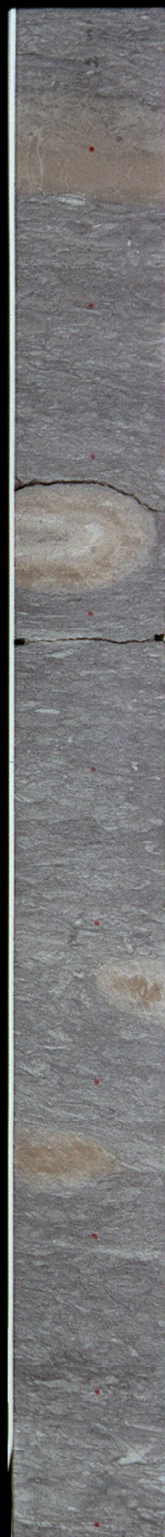
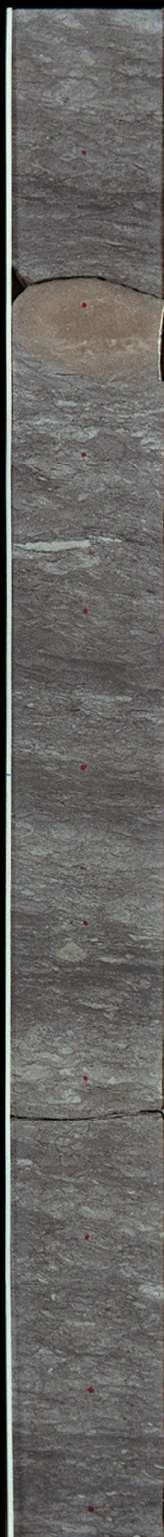
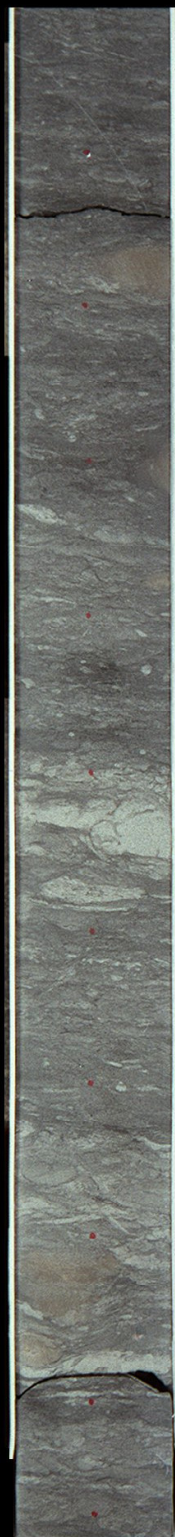
2166.00m

2167.00m

00

2168.00m

2169.00m



50

100



# WOODSIDE ENERGY LIMITED

## THYLACINE- 2

### CORE # 1

2170.00m

2171.00m

00

2172.00m

2173.00m



50

100

# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 1

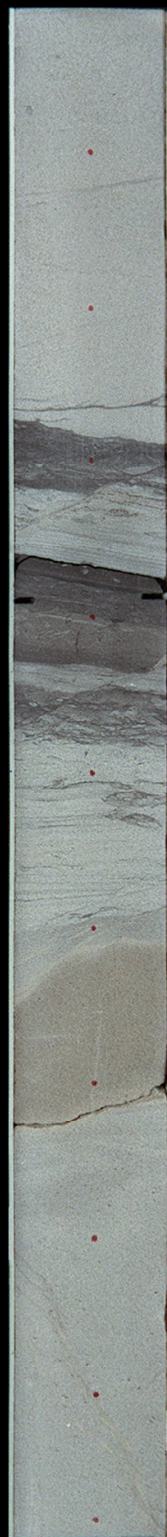
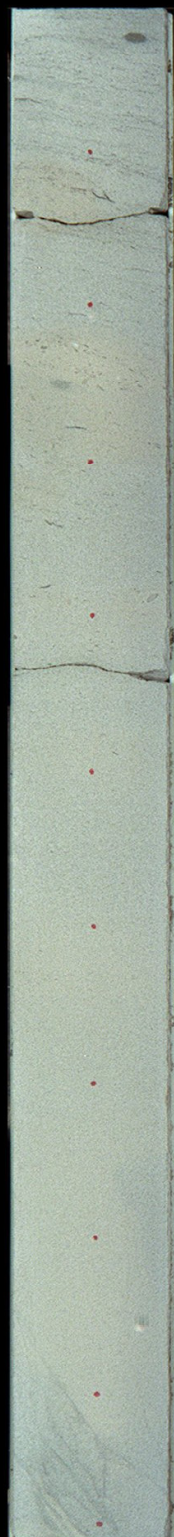
2174.00m

2175.00m

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2176.00m

2177.00m



50

100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 1

2178.00m

2179.00m

00

2180.00m

2181.00m



50

100

# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 1

2182.00m

2183.00m

00

2184.00m

2185.00m



50

100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 1

2186.00m

2187.00m

00

2188.00m

2189.00m



50

100



# WOODSIDE ENERGY LIMITED

## THYLACINE- 2

### CORE # 1

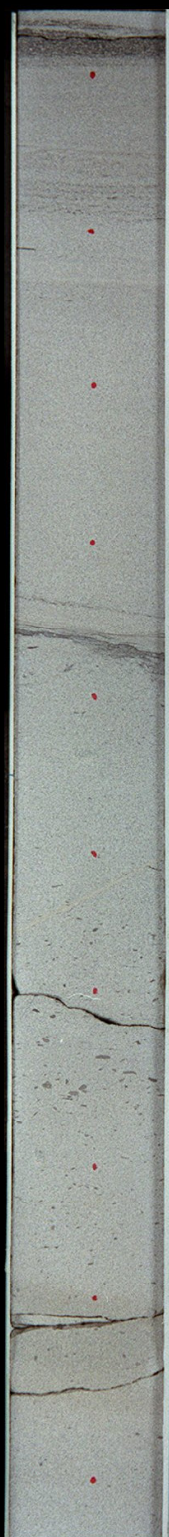
2190.00m

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2192.00m

2193.00m



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# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 1

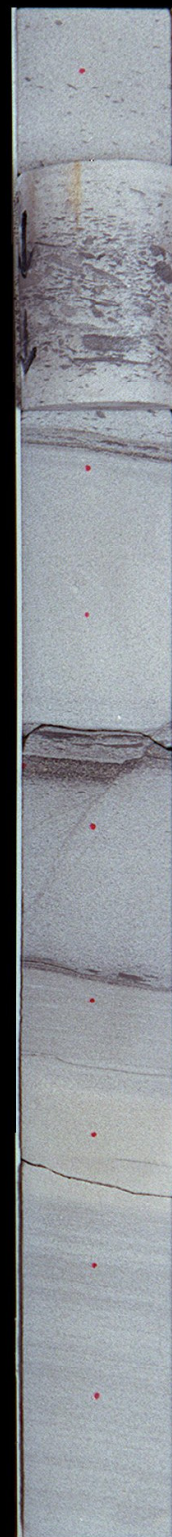
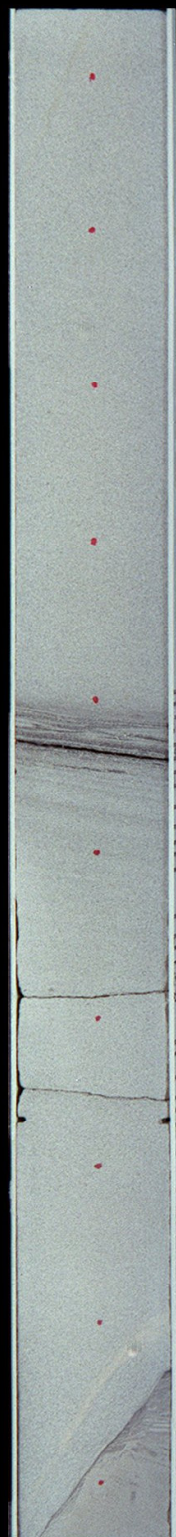
2194.00m

2195.00m

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2196.00m

2197.00m



50

100

# WOODSIDE ENERGY LIMITED

## THYLACINE- 2

### CORE # 1

2198.00m

2199.00m

00

50

100





# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 2

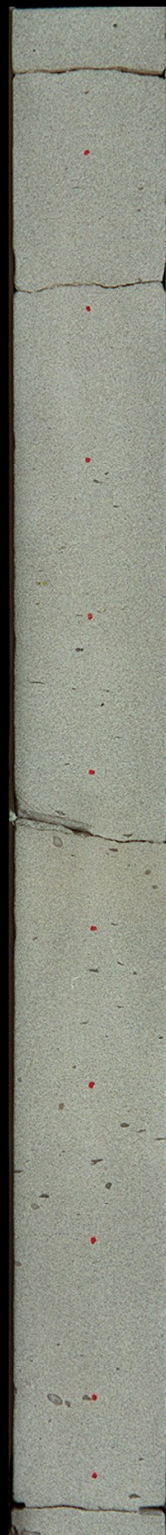
2203.50m

2204.00m

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2205.00m

2206.00m



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100

**WOODSIDE ENERGY LIMITED**  
**THYLACINE- 2**

**CORE # 2**

2207.00m

2208.00m

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2209.00m

2210.00m



50

100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 2

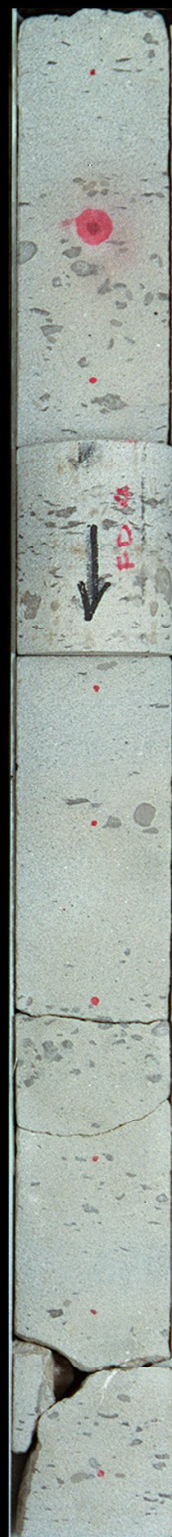
2211.00m

2212.00m

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2213.00m

2214.00m



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100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 2

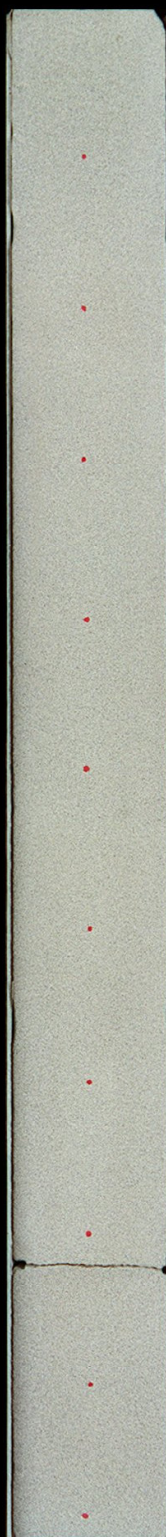
2215.00m

2216.00m

00

2217.00m

2218.00m



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100



**WOODSIDE ENERGY LIMITED**  
**THYLACINE- 2**

**CORE # 2**

2219.00m

2220.00m

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2221.00m

2222.00m



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100

# WOODSIDE ENERGY LIMITED

## THYLACINE- 2

### CORE # 2

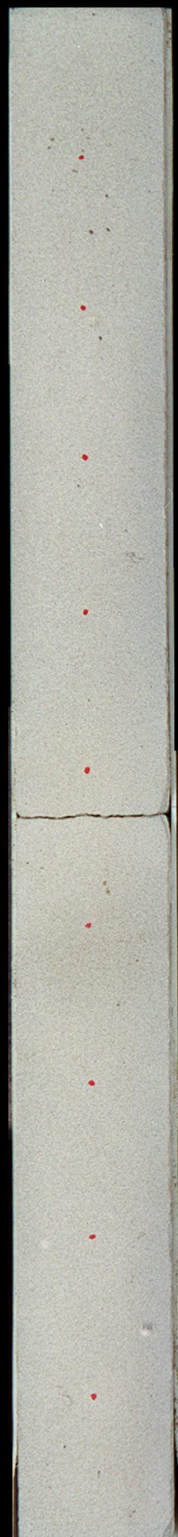
2223.00m

2224.00m

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2225.00m

2226.00m



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100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 2

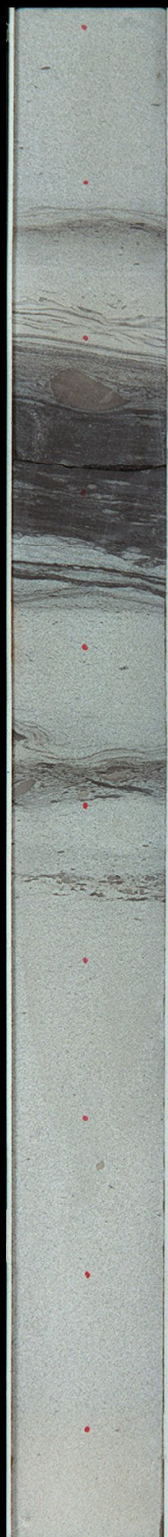
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2228.00m

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2229.00m

2230.00m



# WOODSIDE ENERGY LIMITED

## THYLACINE- 2

### CORE # 2

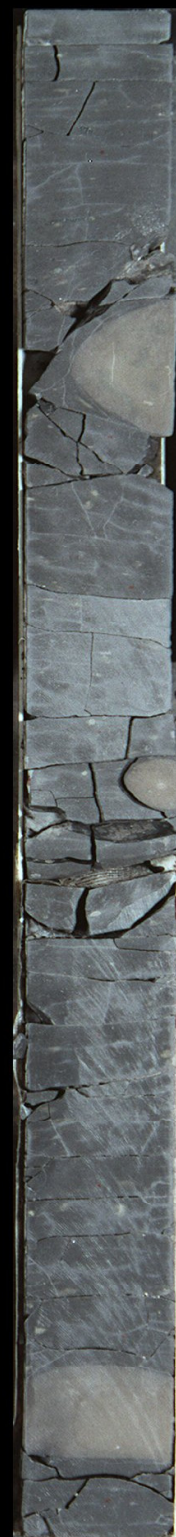
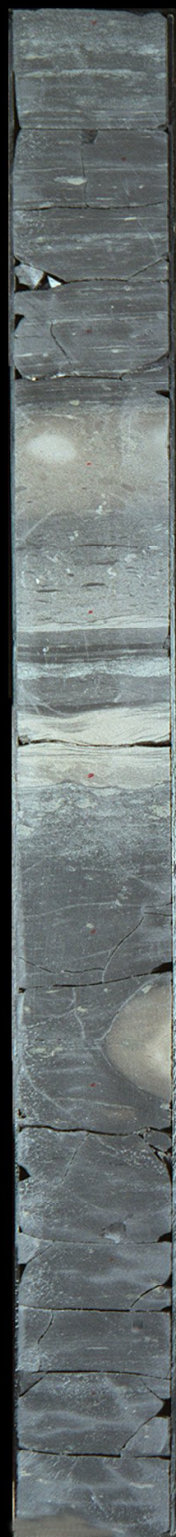
2231.00m

2232.00m

00

2233.00m

2234.00m



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100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 2

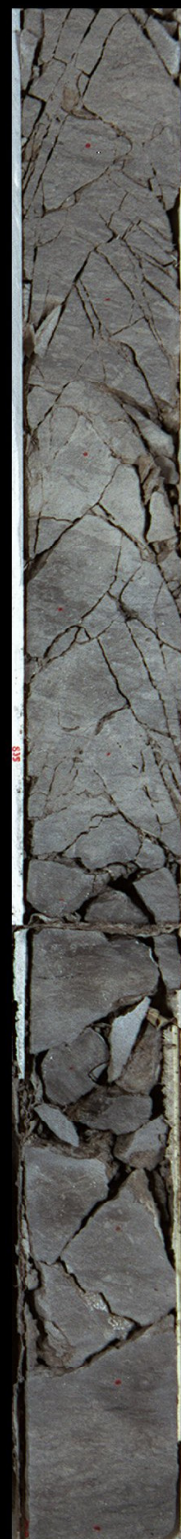
2235.00m

2236.00m

00

2237.00m

2238.00m



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100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 2

2239.00m

2240.00m

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2241.00m

2242.00m



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100



**WOODSIDE ENERGY LIMITED**  
**THYLACINE- 2**

**CORE # 2**

2243.00m

2244.00m

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2245.00m

2246.00m





# WOODSIDE ENERGY LIMITED

## THYLACINE- 2

### CORE # 2

2247.00m

2248.00m

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2249.00m

2250.00m



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100



WOODSIDE ENERGY LIMITED  
THYLACINE- 2

CORE # 2

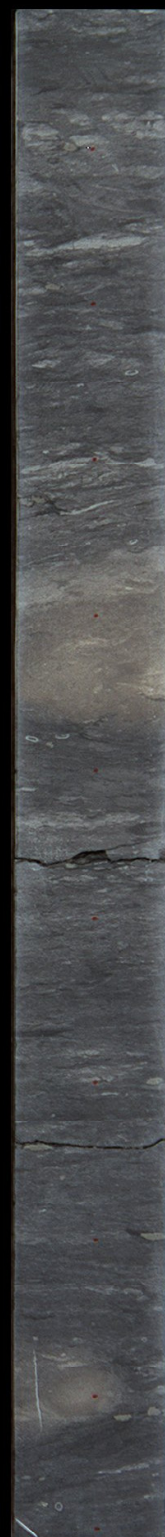
2251.00m

2252.00m

00

2253.00m

2254.00m



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100

# WOODSIDE ENERGY LIMITED THYLACINE- 2

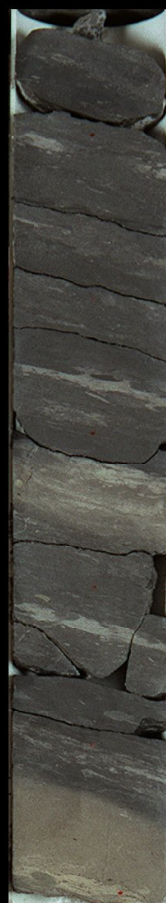
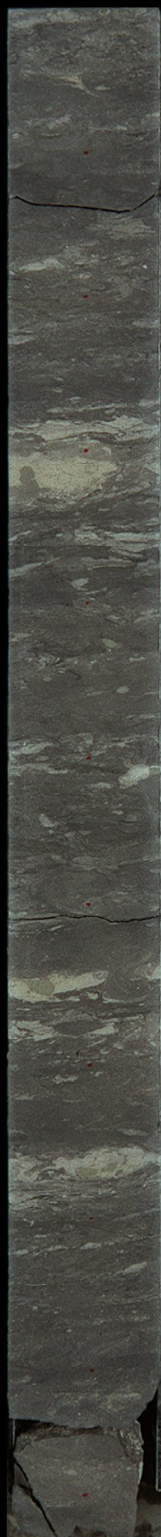
## CORE # 2

2255.00m

2256.00m

00

2257.60m



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100



**WOODSIDE ENERGY LIMITED**  
**THYLACINE- 2**

**CORE # 3**

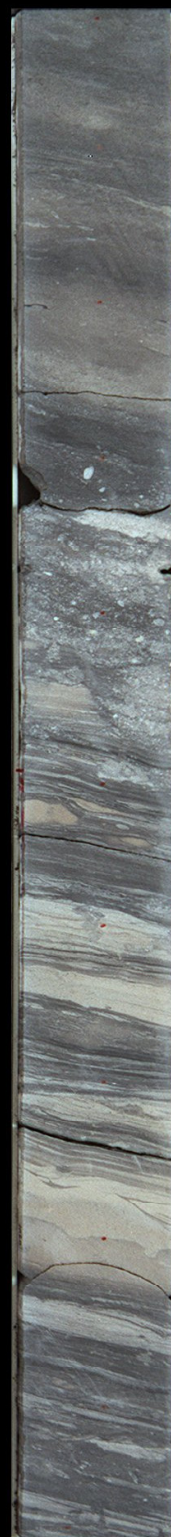
2258.50m

2259.00m

00

2260.00m

2261.00m



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100

# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 3

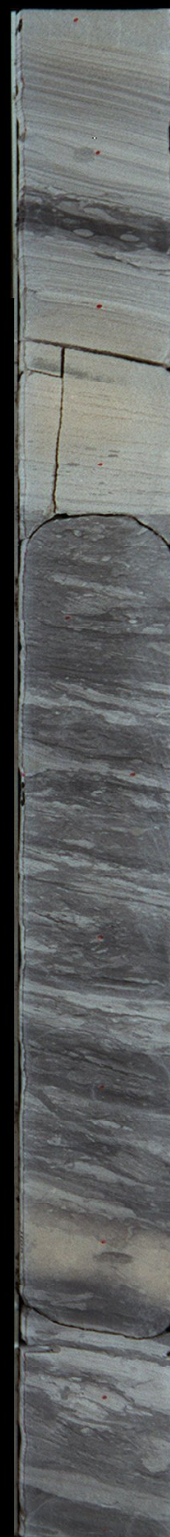
2262.00m

2263.00m

00

2264.00m

2265.00m



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100



**WOODSIDE ENERGY LIMITED**  
**THYLACINE- 2**

**CORE # 3**

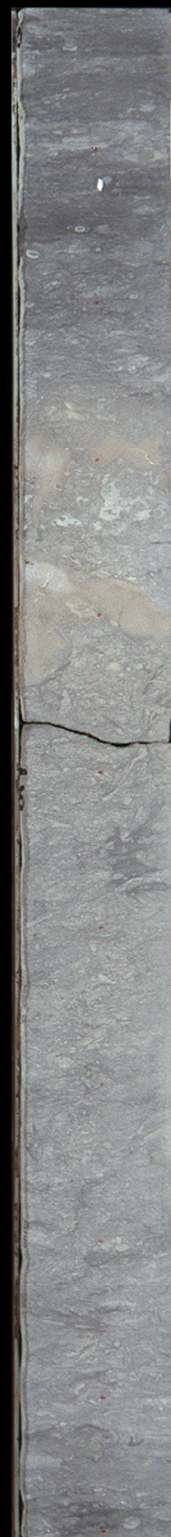
2266.00m

2267.00m

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2268.00m

2269.00m

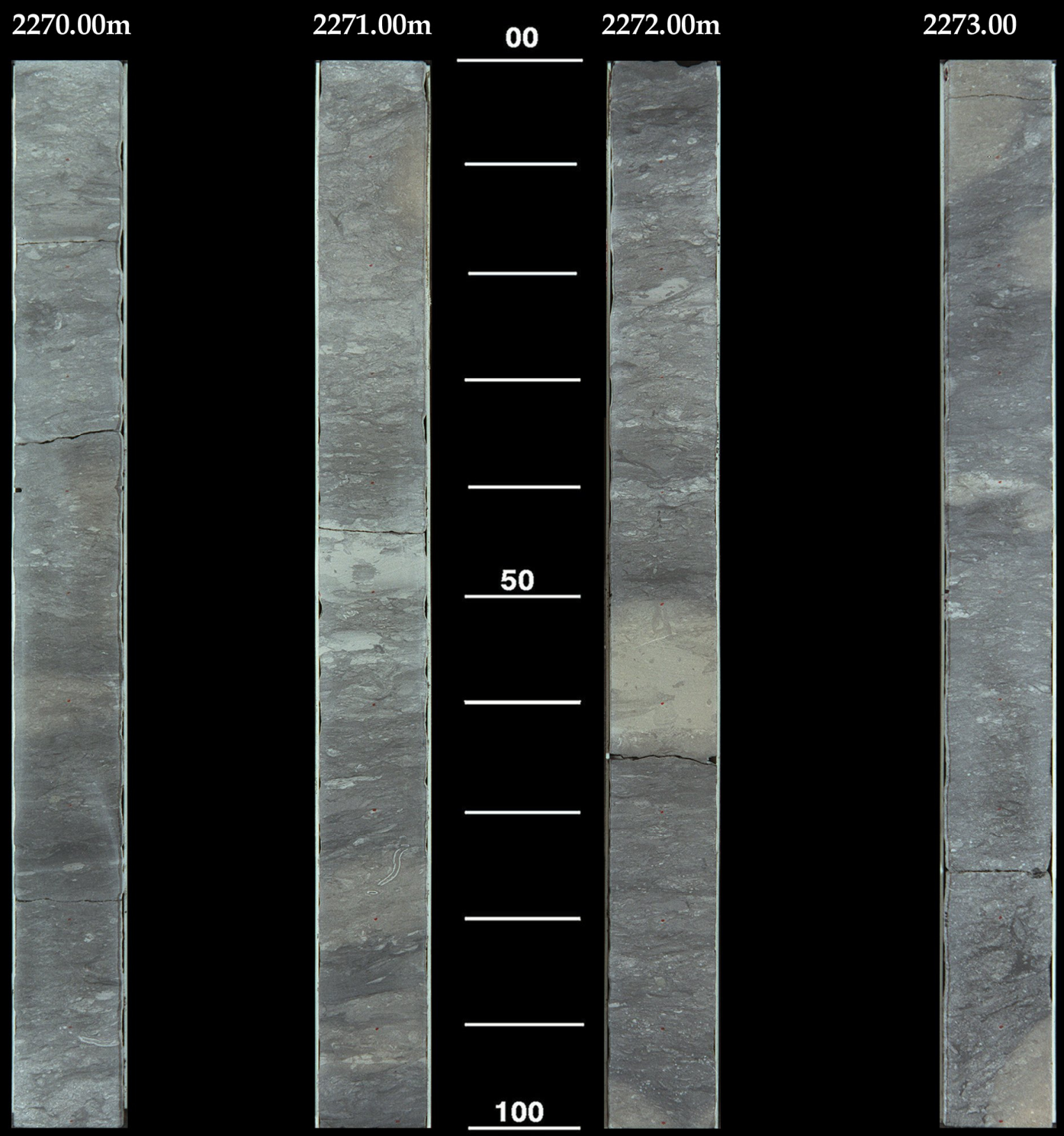


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100

WOODSIDE ENERGY LIMITED  
THYLACINE- 2

CORE # 3





**WOODSIDE ENERGY LIMITED**  
**THYLACINE- 2**

**CORE # 3**

2274.00m

2275.00m

00

2276.00m

2277.00m



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100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 3

2278.00m

2279.00m

00

2280.00m

2281.00m



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100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 3

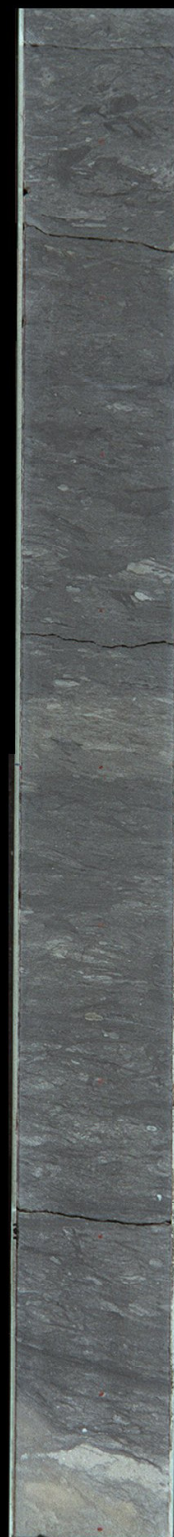
2282.00m

2283.00m

00

2284.00m

2285.00m



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100

**WOODSIDE ENERGY LIMITED**  
**THYLACINE- 2**

**CORE # 3**

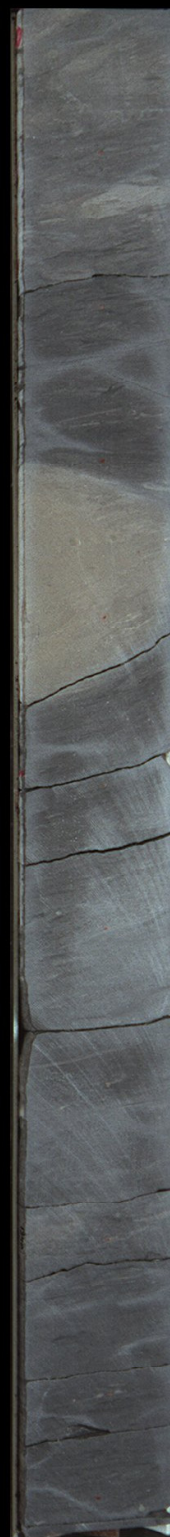
2286.00m

2287.00m

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2288.00m

2289.00m



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100



# WOODSIDE ENERGY LIMITED

## THYLACINE- 2

### CORE # 3

2290.00m

2291.00m

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2292.00m

2293.00m



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100

# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 3

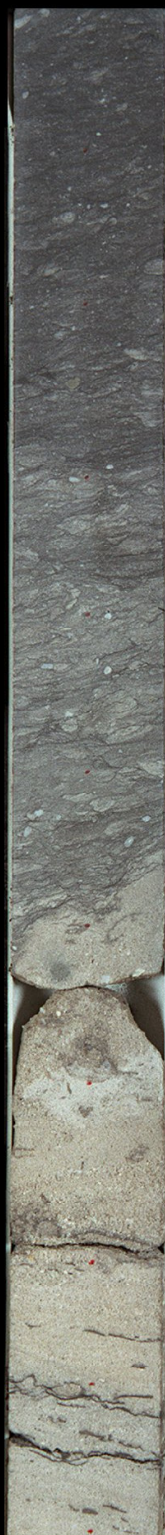
2294.00m

2295.00m

00

2296.00m

2297.00m



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100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 3

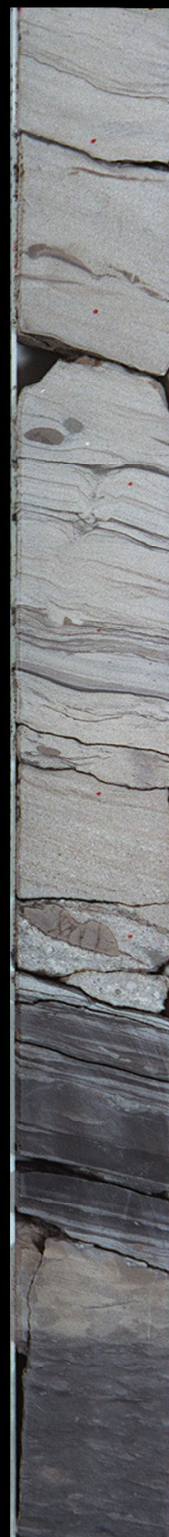
2298.00m

2299.00m

00

2300.00m

2301.00m



50

100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 3

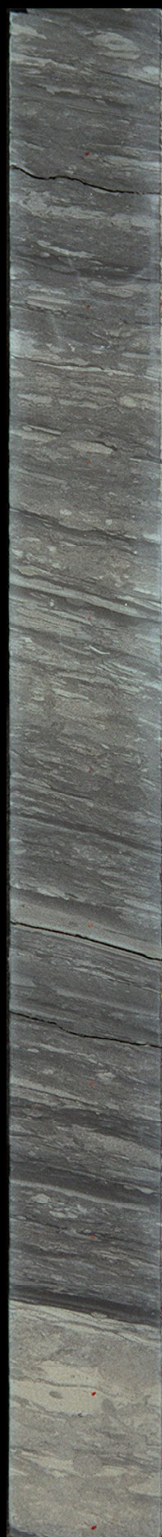
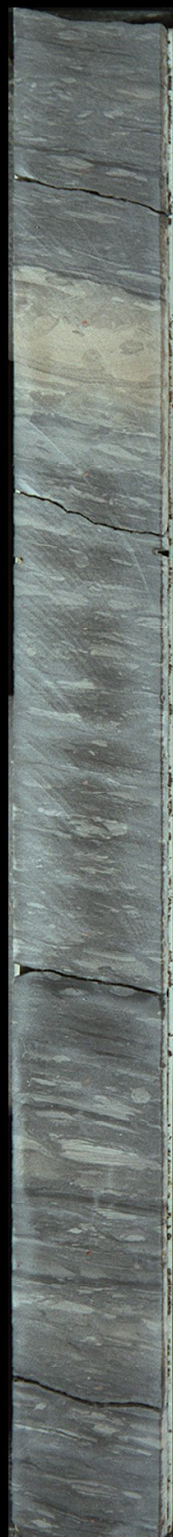
2302.00m

2303.00m

00

2304.00m

2305.00m



50

100



# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 3

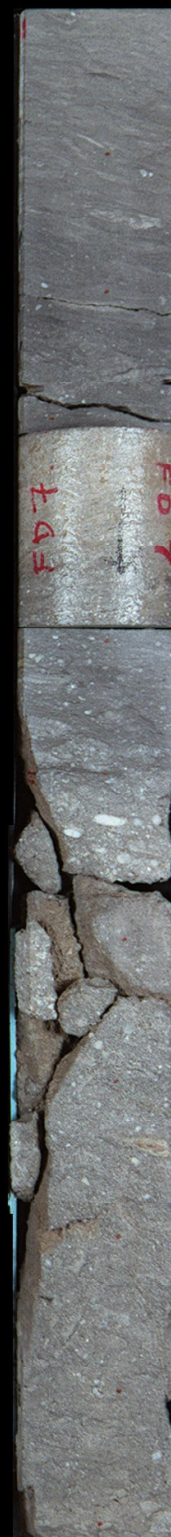
2306.00m

2307.00m

00

2308.00m

2309.00m



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100

# WOODSIDE ENERGY LIMITED THYLACINE- 2

## CORE # 3

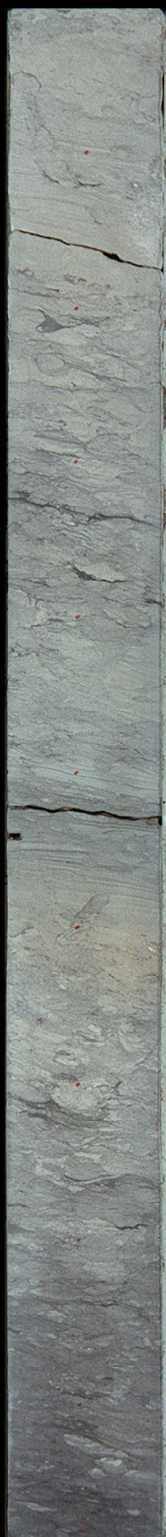
2310.00m

2311.00m

00

2312.00m

2313.00m



50

100



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	

### Core 1

1	2150.09	0.340	0.536
2	2150.19	0.231	0.383
3	2150.29	0.019	0.050
4	2150.40	0.045	0.100
5	2150.50	0.011	0.033
6	2150.61	0.076	0.151
7	2150.71	0.009	0.029
8	2150.81	0.005	0.020
9	2150.90	0.105	0.198
10	2150.98	0.220	0.368
11	2151.09	0.225	0.376
12	2151.20	0.070	0.141
13	2151.30	0.081	0.160
14	2151.40	0.020	0.053
15	2151.50	0.068	0.139
16	2151.60	0.027	0.066
17	2151.70	0.021	0.055
18	2151.80	0.009	0.028
19	2151.90	0.032	0.077
20	2151.97	0.002	0.008
21	2152.11	0.015	0.043
22	2152.20	0.073	0.146
23	2152.30	0.055	0.117
24	2152.40	0.004	0.015
25	2152.50	0.021	0.055
26	2152.60	0.030	0.072
27	2152.70	0.028	0.069
28	2152.82	0.596	0.876
29	2152.90	0.285	0.461
30	2152.97	0.024	0.061
31	2153.10	0.423	0.649
32	2153.21	0.105	0.198
33	2153.30	0.024	0.061
34	2153.40	0.037	0.084
35	2153.50	0.009	0.029
36	2153.60	0.053	0.114
37	2153.70	0.019	0.051
38	2153.80	0.340	0.537
39	2153.91	1.50	2.02
40	2153.98	0.021	0.054
41	2154.10	0.015	0.042
42	2154.20	0.133	0.241

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
43	2154.30	0.010	0.033	
44	2154.40	0.019	0.051	
45	2154.50	0.038	0.088	
46	2154.60	0.039	0.089	
47	2154.70	0.277	0.451	
48	2154.80	0.006	0.023	
49	2154.88	0.015	0.043	
50	2154.97	0.015	0.042	
51	2155.09	0.012	0.037	
52	2155.19	0.005	0.018	
53	2155.30	0.058	0.124	
54	2155.40	20.9	23.8	
55	2155.50	0.004	0.016	
56	2155.60	0.008	0.026	
57	2155.70	0.017	0.046	
58	2155.79	0.009	0.030	
59	2155.89	0.701	1.02	
60	2155.98	0.006	0.022	
61	2156.10	0.010	0.033	
62	2156.20	0.021	0.055	
63	2156.30	0.015	0.042	
64	2156.40	0.020	0.054	
65	2156.50	0.048	0.107	
66	2156.60	0.008	0.028	
67	2156.70	0.011	0.035	
68	2156.80	0.074	0.150	
69	2156.90	0.096	0.186	
70	2156.98	0.015	0.043	
71	2157.10	0.011	0.035	
72	2157.20	0.021	0.057	
73	2157.30	0.031	0.075	
74	2157.40	0.017	0.048	
75	2157.50	0.022	0.057	
76	2157.60	0.042	0.096	
77	2157.70	0.060	0.127	
78	2157.80	0.059	0.125	
79	2157.90	0.050	0.109	
80	2157.98	0.380	0.596	
81	2158.10	0.015	0.042	
82	2158.20	0.011	0.034	
83	2158.30	0.032	0.076	
84	2158.40	0.008	0.028	
85	2158.50	0.017	0.047	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
86	2158.60	0.009	0.031	
87	2158.70	0.968	1.36	
88	2158.80	0.024	0.062	
89	2158.89	0.041	0.094	
90	2158.97	0.034	0.081	
91	2159.10	0.005	0.020	
92	2159.20	0.012	0.035	
93	2159.30	0.008	0.028	
94	2159.41	0.013	0.040	
95	2159.51	0.517	0.781	
96	2159.60	0.130	0.239	
97	2159.70	0.126	0.232	
98	2159.80	0.020	0.054	
99	2159.90	0.023	0.059	
100	2159.98	0.028	0.069	
101	2160.10	0.017	0.048	
102	2160.20	0.001	0.005	
103	2160.31	0.012	0.037	
104	2160.41	0.010	0.033	
105	2160.50	0.048	0.107	
106	2160.60	0.006	0.022	
107	2160.70	0.003	0.013	
108	2160.80	0.093	0.181	
109	2160.90	0.030	0.074	
110	2160.97	0.018	0.049	
111	2161.10	3.57	4.50	
112	2161.20	0.013	0.039	
113	2161.30	1.39	1.89	
114	2161.40	0.024	0.062	
115	2161.50	0.064	0.133	
116	2161.60	0.009	0.029	
117	2161.70	0.004	0.015	
118	2161.80	0.064	0.134	
119	2161.90	0.011	0.034	
120	2161.98	0.004	0.018	
121	2162.10	0.004	0.016	
122	2162.20	0.002	0.011	
123	2162.30	0.008	0.026	
124	2162.40	0.017	0.047	
125	2162.50	3.38	4.28	
126	2162.60	0.027	0.067	
127	2162.70	0.026	0.065	
128	2162.80	0.004	0.017	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
129	2162.90	0.005	0.019	
130	2162.98	0.014	0.042	
131	2163.11	0.037	0.086	
132	2163.20	0.009	0.030	
133	2163.29	0.007	0.024	
134	2163.40	0.062	0.130	
135	2163.50	0.016	0.044	
136	2163.60	0.051	0.112	
137	2163.70	0.004	0.017	
138	2163.80	0.006	0.021	
139	2163.90	0.016	0.046	
140	2163.98	0.011	0.034	
141	2164.10	0.001	0.006	
142	2164.20	0.025	0.064	
143	2164.30	0.003	0.014	
144	2164.40	0.007	0.025	
145	2164.50	0.194	0.335	
146	2164.60	0.026	0.065	
147	2164.70	19.1	21.8	
148	2164.80	0.157	0.275	
149	2164.89	0.003	0.014	
150	2164.96	<0.001	0.003	
151	2165.10	0.007	0.023	
152	2165.20	0.114	0.212	
153	2165.30	0.285	0.461	
154	2165.40	0.013	0.039	
155	2165.50	0.001	0.008	
156	2165.61	0.001	0.006	
157	2165.70	0.009	0.029	
158	2165.80	0.001	0.008	
159	2165.90	10.0	11.9	
160	2165.98	0.005	0.020	
161	2166.10	0.005	0.020	
162	2166.20	0.012	0.036	
163	2166.30	0.011	0.035	
164	2166.40	0.006	0.023	
165	2166.50	150	160	
166	2166.60	0.007	0.024	
167	2166.70	0.010	0.031	
168	2166.80	0.016	0.045	
169	2166.90	0.018	0.049	
170	2166.98	0.015	0.042	
171	2167.10	0.014	0.040	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
172	2167.20	3.23	4.08	
173	2167.30	0.011	0.033	
174	2167.40	0.525	0.783	
175	2167.50	0.019	0.051	
176	2167.60	0.036	0.083	
177	2167.70	0.031	0.075	
178	2167.80	0.017	0.047	
179	2167.89	0.005	0.020	
180	2167.98	0.017	0.047	
181	2168.10	0.014	0.040	
182	2168.21	0.001	0.005	
183	2168.30	0.020	0.053	
184	2168.40	0.047	0.104	
185	2168.50	0.005	0.019	
186	2168.60	0.012	0.036	
187	2168.70	0.120	0.222	
188	2168.80	0.015	0.042	
189	2168.90	0.014	0.040	
190	2168.98	0.012	0.035	
191	2169.10	0.004	0.015	
192	2169.20	0.014	0.040	
193	2169.30	0.019	0.051	
194	2169.40	0.019	0.051	
195	2169.50	0.016	0.044	
196	2169.60	0.022	0.058	
197	2169.70	0.017	0.047	
198	2169.80	0.021	0.054	
199	2169.90	0.031	0.074	
200	2169.98	0.048	0.105	
201	2170.10	0.019	0.050	
202	2170.20	0.019	0.052	
203	2170.30	0.026	0.065	
204	2170.40	0.011	0.033	
205	2170.50	0.009	0.028	
206	2170.60	0.053	0.115	
207	2170.70	0.022	0.058	
208	2170.80	0.012	0.037	
209	2170.90	0.020	0.053	
210	2170.98	0.014	0.040	
211	2171.10	0.545	0.812	
212	2171.20	0.372	0.582	
213	2171.30	1.00	1.40	
214	2171.40	0.007	0.023	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
215	2171.48	0.022	0.057	
216	2171.60	0.003	0.012	
217	2171.70	0.015	0.043	
218	2171.80	0.009	0.030	
219	2171.90	0.015	0.043	
220	2171.98	0.007	0.024	
221	2172.10	0.021	0.054	
222	2172.20	0.008	0.028	
223	2172.30	0.444	0.679	
224	2172.40	0.011	0.035	
225	2172.50	0.475	0.720	
226	2172.60	0.022	0.057	
227	2172.70	0.013	0.038	
228	2172.80	0.016	0.045	
229	2172.90	0.025	0.063	
230	2172.98	0.036	0.084	
231	2173.10	0.006	0.022	
232	2173.20	0.088	0.171	
233	2173.29	0.020	0.052	
234	2173.40	0.008	0.026	
235	2173.50	0.005	0.020	
236	2173.60	0.010	0.033	
237	2173.70	0.008	0.026	
238	2173.80	0.009	0.030	
239	2173.90	0.241	0.399	
240	2173.98	1.26	1.72	
241	2174.10	1.22	1.68	
242	2174.20	1.77	2.35	
243	2174.30	3.52	4.43	
244	2174.40	2.47	3.19	
245	2174.50	3.72	4.67	
246	2174.60	2.81	3.60	
247	2174.70	1.40	1.91	
248	2174.80	1.47	1.99	
249	2174.90	1.41	1.90	
250	2174.98	0.143	0.257	
251	2175.10	0.645	0.941	
252	2175.20	0.648	0.945	
253	2175.30	0.379	0.626	
254	2175.40	10.2	12.1	
255	2175.50	12.7	14.9	
256	2175.60	19.5	22.3	
257	2175.70	16.0	18.5	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
258	2175.80	0.008	0.027	
259	2175.90	1.63	2.18	
260	2175.98	0.864	1.23	
261	2176.10	1.46	1.97	
262	2176.20	1.38	1.87	
263	2176.30	0.012	0.037	
264	2176.40	1.67	2.23	
265	2176.50	0.402	0.623	
266	2176.60	0.048	0.105	
267	2176.70	1.71	2.27	
268	2176.80	0.461	0.740	
269	2176.90	0.328	0.523	
270	2176.98	0.891	1.26	
271	2177.09	0.033	0.078	
272	2177.20	1.53	2.06	
273	2177.30	1.36	1.85	
274	2177.40	0.992	1.39	
275	2177.50	1.45	1.96	
276	2177.60	6.71	8.14	
277	2177.70	2.70	3.47	
278	2177.80	5.04	6.21	
279	2177.90	4.19	5.21	
280	2177.98	4.29	5.35	
281	2178.10	3.12	3.96	
282	2178.20	2.64	3.39	
283	2178.30	2.49	3.22	
284	2178.40	3.01	3.83	
285	2178.50	2.27	2.96	
286	2178.60	2.61	3.36	
287	2178.70	3.29	4.16	
288	2178.80	3.38	4.27	
289	2178.90	3.19	4.05	
290	2178.98	2.74	3.52	
291	2179.10	3.49	4.40	
292	2179.20	4.03	5.03	
293	2179.30	3.55	4.47	
294	2179.40	2.88	3.68	
295	2179.50	4.31	5.37	
296	2179.60	5.76	7.05	
297	2179.70	0.045	0.100	
298	2179.80	0.049	0.107	
299	2179.90	0.094	0.180	
300	2179.98	0.156	0.276	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
301	2180.09	0.233	0.392	
302	2180.20	0.486	0.732	
303	2180.30	0.645	0.940	
304	2180.40	0.999	1.40	
305	2180.50	1.26	1.72	
306	2180.60	1.38	1.88	
307	2180.70	0.955	1.34	
308	2180.80	1.08	1.50	
309	2180.90	0.246	0.406	
310	2181.15	2.45	3.17	
311	2181.25	0.877	1.24	
312	2181.34	0.516	0.774	
313	2181.45	2.80	3.59	fractured section
314	2181.54	0.326	0.519	fractured section
315	2181.67	4.51	5.59	
316	2181.74	1.40	1.89	
317	2181.84	1.03	1.44	
318	2181.94	0.816	1.17	
319	2182.05	0.462	0.695	
320	2182.15	0.170	0.294	
321	2182.25	0.321	0.506	
322	2182.35	0.496	0.740	
323	2182.44	0.205	0.343	
324	2182.55	0.343	0.538	
325	2182.64	0.419	0.640	
326	2182.74	0.722	1.04	
327	2182.84	1.15	1.57	
328	2182.95	2.22	2.87	
329	2183.05	1.38	1.86	
330	2183.15	1.85	2.44	
331	2183.25	3.23	4.07	
332	2183.35	1.44	1.93	
333	2183.45	1.12	1.54	
334	2183.55	5.71	6.96	
335	2183.65	1.10	1.51	
336	2183.75	2.05	2.67	
337	2183.85	1.32	1.78	
338	2183.94	1.45	1.95	
339	2184.05	0.892	1.25	
340	2184.15	1.46	1.95	
341	2184.25	3.06	3.88	
342	2184.35	2.25	2.90	
343	2184.45	2.08	2.71	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
344	2184.55	1.69	2.24	
345	2184.65	1.48	1.98	
346	2184.75	1.35	1.81	
347	2184.85	1.61	2.14	
348	2184.95	1.18	1.61	
349	2185.05	0.875	1.23	
350	2185.15	1.36	1.84	
351	2185.25	1.23	1.67	
352	2185.35	0.908	1.27	
353	2185.45	0.984	1.37	
354	2185.55	1.62	2.15	
355	2185.65	3.53	4.42	
356	2185.75	2.66	3.41	
357	2185.85	2.42	3.12	
358	2185.95	4.18	5.20	
359	2186.05	1.72	2.27	
360	2186.15	1.68	2.22	
361	2186.25	1.36	1.84	
362	2186.35	1.67	2.22	
363	2186.60	2.33	3.00	
364	2186.69	1.95	2.55	
365	2186.80	2.49	3.20	
366	2186.90	2.85	3.62	
367	2186.98	4.76	5.86	
368	2187.10	0.952	1.32	
369	2187.20	1.35	1.83	
370	2187.30	3.22	4.06	
371	2187.40	3.09	3.90	
372	2187.50	1.23	1.68	
373	2187.60	0.019	0.050	
374	2187.70	0.089	0.171	
375	2187.80	0.018	0.048	
376	2187.90	1.53	2.04	
377	2187.98	0.113	0.208	
378	2188.10	0.243	0.399	
379	2188.20	1.38	1.86	
380	2188.30	3.84	4.79	
381	2188.40	3.44	4.32	
382	2188.50	0.537	0.795	
383	2188.60	0.895	1.25	
384	2188.70	0.644	0.936	
385	2188.80	0.484	0.725	
386	2188.90	0.366	0.568	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
387	2188.95	1.05	1.45	
388	2189.05	0.668	0.967	
389	2189.15	0.052	0.110	
390	2189.25	0.421	0.642	
391	2189.35	0.085	0.164	
392	2189.45	0.309	0.491	
393	2189.56	5.90	7.19	
394	2189.65	3.08	3.90	
395	2189.75	1.53	2.04	
396	2189.85	0.136	0.243	
397	2189.95	0.187	0.318	
398	2190.05	0.201	0.339	
399	2190.15	0.076	0.150	
400	2190.25	0.600	0.876	
401	2190.35	0.041	0.091	
402	2190.45	0.027	0.066	
403	2190.55	0.034	0.078	
404	2190.65	0.062	0.128	
405	2190.75	0.104	0.194	
406	2190.85	0.137	0.246	
407	2190.95	0.440	0.668	
408	2191.05	0.044	0.098	
409	2191.15	0.606	0.885	
410	2191.25	4.08	5.06	
411	2191.35	3.18	4.02	
412	2191.45	2.30	2.97	
413	2191.55	1.52	2.03	
414	2191.64	1.85	2.44	
415	2191.75	1.18	1.61	
416	2191.83	1.07	1.48	
417	2191.95	1.75	2.32	
418	2192.05	1.93	2.53	
419	2192.15	2.52	3.24	
420	2192.25	0.944	1.31	
421	2192.35	0.029	0.070	
422	2192.45	0.064	0.145	
423	2192.55	0.118	0.216	
424	2192.65	0.240	0.394	
425	2192.75	0.330	0.520	
426	2192.85	0.725	1.04	
427	2192.95	0.027	0.067	
428	2193.05	0.134	0.240	
429	2193.15	5.60	6.84	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
430	2193.25	8.70	10.4	
431	2193.35	7.51	9.03	
432	2193.45	5.42	6.64	
433	2193.55	4.54	5.61	
434	2193.65	0.065	0.133	
435	2193.75	3.14	3.97	
436	2193.85	1.92	2.52	
437	2193.95	3.23	4.08	
438	2194.05	2.82	3.59	
439	2194.15	3.30	4.15	
440	2194.25	3.52	4.41	
441	2194.35	3.52	4.41	
442	2194.45	0.186	0.318	
443	2194.55	0.408	0.625	
444	2194.66	2.15	2.80	
445	2194.75	2.02	2.64	
446	2194.85	1.33	1.80	
447	2194.95	0.366	0.569	
448	2195.05	0.048	0.105	
449	2195.15	0.079	0.155	
450	2195.25	0.196	0.332	
451	2195.35	2.71	3.46	
452	2195.45	1.78	2.34	
453	2195.55	0.646	0.939	
454	2195.65	0.385	0.595	
455	2195.75	0.018	0.047	
456	2195.85	0.018	0.049	
457	2195.96	0.021	0.054	
458	2196.05	0.031	0.074	
459	2196.15	3.53	4.43	
460	2196.25	3.32	4.18	
461	2196.35	4.48	5.55	
462	2196.45	5.18	6.37	
463	2196.55	11.1	13.1	
464	2196.65	15.2	17.6	
465	2196.75	13.5	15.7	
466	2196.85	13.0	15.2	
467	2196.95	10.6	12.5	
468	2197.05	8.72	10.4	
469	2197.31	0.271	0.439	
470	2197.40	1.49	2.00	
471	2197.54	0.068	0.138	
472	2197.65	0.043	0.095	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
473	2197.73	0.173	0.300	
474	2197.81	0.159	0.278	
475	2197.90	0.280	0.453	
476	2198.02	0.859	1.21	
477	2198.10	2.47	3.18	
478	2198.20	1.88	2.48	
479	2198.30	2.79	3.57	
480	2198.40	5.06	6.21	
481	2198.50	6.24	7.59	
482	2198.69	0.770	1.10	fractured section
483	2198.82	1.50	2.01	fractured section
484	2198.91	1.31	1.79	fractured section
485	2198.97	3.93	4.90	fractured section
486	2199.09	0.013	0.037	
487	2199.20	0.013	0.037	
488	2199.28	2.95	3.75	fractured section
489	2199.40	0.369	0.576	fractured section
490	2199.49	3.32	4.19	fractured section
491	2199.62	0.569	0.841	
492	2199.70	0.664	0.963	
493	2199.80	2.48	3.20	
494	2199.88	0.761	1.09	
Core 2				
495	2203.60	10.3	12.1	
496	2203.70	10.2	12.1	
497	2203.80	10.1	12.0	
498	2203.90	6.35	7.72	
499	2203.97	6.64	8.05	
500	2204.10	7.06	8.54	
501	2204.20	5.42	6.63	
502	2204.30	6.58	7.99	
503	2204.40	7.68	9.25	
504	2204.50	7.65	9.19	
505	2204.60	8.16	9.78	
506	2204.70	5.99	7.31	
507	2204.80	5.46	6.69	
508	2204.90	6.69	8.11	
509	2204.98	6.10	7.44	
510	2205.10	4.58	5.68	
511	2205.20	5.23	6.42	
512	2205.30	4.14	5.15	
513	2205.40	4.81	5.94	
514	2205.50	3.08	3.91	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
515	2205.60	5.00	6.16	
516	2205.70	3.51	4.41	
517	2205.80	3.38	4.26	
518	2205.90	4.95	6.10	
519	2205.95	2.72	3.49	
520	2206.05	3.23	4.14	
521	2206.16	2.72	3.48	
522	2206.25	3.11	3.95	
523	2206.35	5.38	6.59	
524	2206.45	7.66	9.23	
525	2206.55	10.0	11.9	
526	2206.65	4.79	5.92	
527	2206.75	4.17	5.18	
528	2206.85	3.51	4.42	
529	2206.95	3.77	4.71	
530	2207.05	3.72	4.67	
531	2207.14	3.95	4.92	
532	2207.25	8.13	9.76	
533	2207.35	5.67	6.92	
534	2207.45	7.28	8.78	
535	2207.55	5.38	6.59	
536	2207.65	1.49	2.00	
537	2207.75	2.44	3.15	
538	2207.84	18.6	21.3	
539	2207.95	1.32	1.80	
540	2208.05	1.59	2.13	
541	2208.15	1.85	2.44	
542	2208.25	1.94	2.56	
543	2208.35	1.53	2.06	
544	2208.46	15.3	17.6	
545	2208.55	9.19	10.9	
546	2208.65	5.91	7.22	
547	2208.75	5.78	7.07	
548	2208.85	11.0	12.9	
549	2208.95	8.68	10.3	
550	2209.04	5.20	6.39	
551	2209.15	5.81	7.11	
552	2209.25	5.84	7.14	
553	2209.35	4.47	5.53	
554	2209.45	9.87	11.7	
555	2209.55	7.49	9.02	
556	2209.65	4.91	6.06	
557	2209.75	6.66	8.08	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
558	2209.85	5.94	7.25	
559	2209.95	5.19	6.38	
560	2210.05	3.46	4.36	
561	2210.15	3.26	4.12	
562	2210.26	11.2	13.2	
563	2210.35	4.03	5.02	
564	2210.45	3.80	4.76	
565	2210.55	4.45	5.51	
566	2210.65	5.10	6.28	
567	2210.75	4.40	5.45	
568	2210.85	3.46	4.36	
569	2210.95	2.88	3.68	
570	2211.10	7.44	8.96	
571	2211.20	2.91	3.71	
572	2211.30	5.12	6.29	
573	2211.40	4.64	5.74	
574	2211.50	27.0	30.3	
575	2211.60	1.83	2.42	
576	2211.70	19.0	21.8	
577	2211.80	3.80	4.76	
578	2211.90	5.34	6.55	
579	2211.95	6.07	7.41	
580	2212.05	10.8	12.7	
581	2212.15	4.27	5.30	
582	2212.25	5.45	6.68	
583	2212.35	2.88	3.69	
584	2212.45	3.84	4.81	
585	2212.55	2.91	3.72	
586	2212.65	4.49	5.56	
587	2212.75	5.77	7.04	
588	2212.85	22.6	25.7	
589	2212.96	4.56	5.64	
590	2213.05	5.33	6.54	
591	2213.15	10.3	12.2	
592	2213.25	12.8	14.9	
593	2213.35	8.78	10.5	
594	2213.45	4.42	5.47	
595	2213.67	8.34	9.97	
596	2213.75	11.9	13.9	
597	2213.85	9.67	11.5	
598	2213.95	7.91	9.50	
599	2214.05	7.47	8.99	
600	2214.15	30.2	33.8	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
601	2214.25	34.7	38.6	
602	2214.45	12.9	15.1	
603	2214.55	36.4	40.5	
604	2214.65	0.124	0.228	
605	2214.75	1.73	2.30	
606	2214.85	9.18	10.9	
607	2214.95	77.0	83.4	
608	2215.05	3.88	4.85	
609	2215.15	4.49	5.56	
610	2215.25	1.75	2.32	
611	2215.35	2.62	3.36	
612	2215.45	5.88	7.17	
613	2215.55	5.47	6.70	
614	2215.65	2.69	3.44	
615	2215.75	6.45	7.82	
616	2215.85	2.66	3.41	
617	2216.10	4.90	6.04	
618	2216.20	4.49	5.56	
619	2216.30	1.46	1.97	
620	2216.40	7.07	8.56	
621	2216.50	27.3	30.7	
622	2216.60	5.65	6.90	
623	2216.70	3.65	4.64	
624	2216.80	17.9	20.5	
625	2216.90	26.1	29.3	
626	2216.98	8.95	10.7	
627	2217.10	3.24	4.10	
628	2217.20	3.61	4.54	
629	2217.30	3.35	4.23	
630	2217.40	4.85	6.00	
631	2217.50	7.56	9.10	
632	2217.60	12.3	14.3	
633	2217.70	7.63	9.18	
634	2217.80	5.10	6.29	
635	2217.89	8.25	9.88	
636	2217.98	5.82	7.11	
637	2218.10	4.45	5.52	
638	2218.20	1.75	2.33	
639	2218.30	3.70	4.66	
640	2218.40	0.452	0.694	
641	2218.52	0.169	0.296	
642	2218.60	2.32	3.02	
643	2218.69	0.428	0.661	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
644	2218.80	0.272	0.446	
645	2218.89	5.46	6.70	
646	2218.99	0.233	0.390	
647	2219.09	5.05	6.22	
648	2219.20	13.8	16.1	
649	2219.29	2.62	3.37	
650	2219.39	0.474	0.723	
651	2219.50	1.60	2.15	
652	2219.60	0.396	0.617	
653	2219.70	2.67	3.43	
654	2219.78	2.56	3.30	
655	2219.89	1.01	1.41	
656	2220.39	0.185	0.321	fractured section
657	2220.50	0.564	0.841	fractured section
658	2220.60	0.287	0.464	fractured section
659	2220.69	1.52	2.05	fractured section
660	2220.79	0.600	0.884	
661	2220.90	4.94	6.09	
662	2220.98	0.008	0.026	
663	2221.10	1.72	2.29	
664	2221.20	3.24	4.10	
665	2221.30	2.28	2.97	
666	2221.40	0.409	0.635	
667	2221.46	0.318	0.510	
668	2221.57	1.37	1.86	
669	2221.67	23.9	27.1	
670	2221.79	21.2	24.1	
671	2221.89	5.10	6.28	
672	2221.97	1.36	1.86	
673	2222.10	1.66	2.22	
674	2222.21	1.96	2.58	
675	2222.30	6.58	7.99	
676	2222.40	16.8	19.3	
677	2222.49	18.0	20.7	
678	2222.60	10.3	12.1	
679	2222.70	6.91	8.38	
680	2222.79	9.44	11.2	
681	2222.89	12.6	14.7	
682	2222.98	4.61	5.70	
683	2223.11	3.70	4.65	
684	2223.20	3.17	4.03	
685	2223.30	3.24	4.11	
686	2223.40	2.41	3.13	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
687	2223.50	7.11	8.59	
688	2223.60	10.4	12.3	
689	2223.70	5.76	7.04	
690	2223.80	4.54	5.62	
691	2223.90	7.00	8.47	
692	2224.02	4.98	6.15	
693	2224.12	3.89	4.88	
694	2224.22	8.38	10.0	
695	2224.32	5.82	7.11	
696	2224.42	4.92	6.08	
697	2224.52	3.43	4.33	
698	2224.62	7.06	8.54	
699	2224.72	8.14	9.75	
700	2224.82	6.99	8.46	
701	2224.92	5.41	6.65	
702	2225.02	5.38	6.61	
703	2225.12	2.44	3.16	
704	2225.22	2.22	2.90	
705	2225.32	5.88	7.18	
706	2225.42	4.08	5.09	
707	2225.52	4.42	5.49	
708	2225.62	4.91	6.07	
709	2225.72	5.20	6.40	
710	2225.82	5.29	6.51	
711	2225.92	6.37	7.75	
712	2226.02	6.40	7.79	
713	2226.12	6.30	7.68	
714	2226.22	5.06	6.24	
715	2226.32	3.98	4.97	
716	2226.42	2.56	3.31	
717	2226.52	2.66	3.43	
718	2226.62	1.03	1.44	
719	2226.72	0.176	0.307	
720	2226.82	0.113	0.213	
721	2226.92	1.99	2.62	
722	2227.02	3.35	4.24	
723	2227.12	4.11	5.12	
724	2227.22	2.35	3.06	
725	2227.32	2.39	3.10	
726	2227.42	2.06	2.70	
727	2227.52	2.04	2.68	
728	2227.62	1.61	2.16	
729	2227.72	2.77	3.56	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
730	2227.82	2.53	3.26	
731	2227.92	1.49	2.01	
732	2228.02	2.28	2.97	
733	2228.12	0.431	0.666	
734	2228.22	0.071	0.146	
735	2228.32	0.145	0.261	
736	2228.42	0.743	1.07	
737	2228.52	0.341	0.542	
738	2228.62	2.27	2.96	
739	2228.72	4.63	5.73	
740	2228.82	5.94	7.25	
741	2228.92	8.53	10.2	
742	2229.04	2.62	3.35	
743	2229.23	0.013	0.037	fractured section
744	2229.31	0.127	0.228	fractured section
745	2229.40	0.260	0.420	fractured section
746	2229.53	0.209	0.349	
747	2229.62	0.078	0.152	
748	2229.70	0.111	0.204	
749	2229.80	0.156	0.272	
750	2229.90	0.126	0.228	
751	2230.09	0.834	1.18	
752	2230.20	1.54	2.07	
753	2230.31	0.144	0.258	
754	2230.37	3.93	4.91	
755	2230.50	7.61	9.17	
756	2230.60	7.70	9.27	
757	2230.70	4.81	5.95	
758	2230.80	1.54	2.07	
759	2230.90	1.49	2.01	
760	2231.01	0.002	0.011	
761	2231.10	0.852	1.20	
762	2231.21	0.022	0.057	
763	2231.30	0.507	0.759	
764	2231.40	1.24	1.69	
765	2231.50	1.01	1.41	
766	2231.60	0.427	0.654	
767	2231.70	0.015	0.042	
768	2231.81	0.389	0.604	
769	2231.90	0.356	0.560	
770	2232.01	0.364	0.571	
771	2232.10	0.282	0.457	
772	2232.20	0.226	0.378	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
773	2232.31	0.180	0.312	
774	2232.41	0.152	0.270	
775	2232.51	2.93	3.75	
776	2232.60	0.124	0.230	
777	2232.70	0.403	0.627	
778	2232.80	0.125	0.231	
779	2232.89	0.123	0.228	
780	2233.00	0.062	0.130	
781	2233.00	0.189	0.327	
782	2233.10	0.090	0.176	
783	2233.21	0.049	0.108	
784	2233.30	0.501	0.757	
785	2233.40	0.076	0.153	
786	2233.50	0.069	0.142	
787	2233.59	0.198	0.340	
788	2233.72	0.068	0.139	
789	2233.80	0.073	0.148	
790	2233.90	0.154	0.275	
791	2234.12	0.081	0.158	
792	2234.20	10.1	12.0	possible fractures
793	2234.31	0.162	0.287	
794	2234.41	0.089	0.174	
795	2234.51	0.186	0.321	
796	2234.61	0.349	0.551	
797	2234.70	0.152	0.271	
798	2234.80	0.044	0.099	
799	2234.90	0.425	0.656	
800	2235.01	0.363	0.572	
801	2235.10	0.206	0.350	
802	2235.20	0.068	0.139	
803	2235.31	0.146	0.262	
804	2235.40	0.310	0.498	
805	2235.49	0.113	0.212	
806	2235.60	1.45	1.96	
807	2235.70	0.061	0.128	
808	2235.80	1.49	2.01	
809	2235.90	0.725	1.05	
810	2235.99	0.640	0.939	
811	2236.10	77.2	83.7	
812	2236.20	37.0	41.2	
813	2236.30	7.36	8.89	
814	2236.40	766	793	fractured
815	2236.50	1.86	2.46	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
816	2236.60	3.45	4.35	
817	2236.70	3.32	4.19	
818	2236.80	1.70	2.27	
819	2236.90	113	121	
820	2237.00	101	108	
821	2237.10	4.62	5.71	
822	2237.20	1200	1240	
823	2237.30	3530	3600	
824	2237.42	3.75	4.71	
825	2237.50	0.003	0.014	
826	2237.60	1.33	1.82	
827	2237.71	3.34	4.23	fractured section
828	2237.83	40.3	44.7	fractured section
829	2237.90	42.4	46.8	fractured section
830	2237.97	40.7	45.1	fractured section
831	2238.10	3.70	4.65	fractured section
832	2238.20	2.03	2.67	fractured section
833	2238.30	0.637	0.936	fractured section
834	2238.40	0.573	0.852	fractured section
835	2238.49	1.04	1.44	fractured section
836	2238.59	1.54	2.07	fractured section
837	2238.70	1.95	2.57	fractured section
838	2238.80	1.09	1.52	fractured section
839	2238.90	0.896	1.27	fractured section
840	2239.00	1.13	1.57	
841	2239.10	0.147	0.261	
842	2239.20	0.205	0.347	
843	2239.30	0.488	0.736	
844	2239.40	0.676	0.983	
845	2239.50	1.22	1.67	
846	2239.60	2.90	3.69	
847	2239.70	7.90	9.50	
848	2239.80	1.57	2.11	
849	2239.90	1.41	1.91	
850	2240.01	0.815	1.16	
851	2240.10	0.782	1.12	
852	2240.21	0.856	1.22	
853	2240.30	0.764	1.10	
854	2240.40	0.400	0.621	
855	2240.50	1.20	1.66	
856	2240.60	0.477	0.726	
857	2240.70	0.167	0.293	
858	2240.80	0.137	0.249	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
859	2240.90	0.192	0.331	
860	2240.98	0.076	0.153	
861	2241.10	0.063	0.132	
862	2241.20	0.053	0.114	
863	2241.30	0.065	0.135	
864	2241.40	0.119	0.221	
865	2241.49	0.046	0.103	
866	2241.60	0.085	0.168	
867	2241.70	0.061	0.128	
868	2241.80	0.291	0.473	
869	2241.90	0.037	0.086	
870	2241.99	0.063	0.131	
871	2242.10	0.126	0.229	
872	2242.20	0.827	1.17	
873	2242.30	0.072	0.145	
874	2242.40	0.074	0.148	
875	2242.51	0.073	0.146	
876	2242.60	0.045	0.099	
877	2242.70	0.152	0.268	
878	2242.80	0.102	0.193	
879	2242.90	0.054	0.115	
880	2242.99	0.054	0.115	
881	2243.10	0.009	0.028	
882	2243.20	0.009	0.030	
883	2243.30	0.007	0.025	
884	2243.40	0.013	0.039	
885	2243.50	0.026	0.065	
886	2243.60	0.010	0.032	
887	2243.70	0.008	0.026	
888	2243.80	0.015	0.043	
889	2243.89	0.022	0.057	
890	2243.98	0.013	0.040	
891	2244.10	0.005	0.019	
892	2244.20	0.007	0.025	
893	2244.30	0.763	1.10	possible fractures
894	2244.40	0.007	0.024	
895	2244.50	0.011	0.034	
896	2244.61	0.011	0.034	
897	2244.70	0.014	0.042	
898	2244.81	0.039	0.090	
899	2244.90	0.067	0.139	
900	2244.98	0.011	0.035	
901	2245.10	0.010	0.031	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
902	2245.20	0.010	0.031	
903	2245.30	0.010	0.032	
904	2245.41	0.008	0.027	
905	2245.50	0.010	0.031	
906	2245.60	0.011	0.034	
907	2245.70	0.045	0.099	
908	2245.80	0.075	0.150	
909	2245.90	21.4	24.4	possible fractures
910	2245.99	0.050	0.109	
911	2246.10	0.043	0.097	
912	2246.20	0.046	0.101	
913	2246.30	0.036	0.084	
914	2246.40	0.511	0.770	
915	2246.50	0.029	0.070	
916	2246.60	27.3	30.8	
917	2246.70	11.4	13.4	
918	2246.80	1.04	1.45	
919	2246.90	12.0	14.1	
920	2246.99	15.0	17.4	
921	2247.09	2.19	2.86	
922	2247.20	0.887	1.26	
923	2247.30	1.50	2.02	
924	2247.40	0.043	0.096	
925	2247.50	0.079	0.159	
926	2247.60	0.195	0.336	
927	2247.70	0.348	0.552	
928	2247.81	5.71	7.01	possible fractures
929	2247.90	0.113	0.213	
930	2247.99	0.493	0.747	
931	2248.11	0.224	0.374	
932	2248.20	0.119	0.220	
933	2248.30	0.263	0.430	
934	2248.40	0.703	1.02	
935	2248.50	0.194	0.331	
936	2248.60	0.474	0.718	
937	2248.70	0.048	0.106	
938	2248.80	0.047	0.103	
939	2248.90	0.072	0.145	
940	2248.99	0.066	0.136	
941	2249.10	0.201	0.342	
942	2249.20	0.045	0.101	
943	2249.31	0.034	0.081	
944	2249.40	0.677	0.984	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
945	2249.50	0.814	1.16	
946	2249.60	6.26	7.64	
947	2249.70	15.1	17.4	
948	2249.83	9.17	10.9	
949	2249.90	17.3	19.9	
950	2249.99	24.6	27.9	
951	2250.10	18.7	21.5	
952	2250.20	15.0	17.4	
953	2250.30	9.20	10.9	
954	2250.40	4.89	6.05	
955	2250.49	4.56	5.68	
956	2250.60	3.92	4.91	
957	2250.70	6.34	7.73	
958	2250.80	2.98	3.81	
959	2250.90	1.83	2.43	
960	2250.99	5.32	6.55	
961	2251.10	1.68	2.24	
962	2251.20	2.06	2.69	
963	2251.30	2.04	2.68	
964	2251.40	1.73	2.30	
965	2251.51	2.34	3.04	
966	2251.60	2.12	2.78	
967	2251.70	1.37	1.86	
968	2251.80	3.67	4.62	
969	2251.90	2.04	2.68	
970	2251.99	2.48	3.20	
971	2252.10	1.11	1.54	
972	2252.20	0.808	1.16	
973	2252.30	1.08	1.51	
974	2252.40	0.626	0.921	
975	2252.50	0.709	1.03	
976	2252.60	0.403	0.628	
977	2252.70	0.446	0.685	
978	2252.80	0.443	0.682	
979	2252.90	0.417	0.647	
980	2252.98	0.428	0.662	
981	2253.10	0.348	0.553	
982	2253.20	0.337	0.537	
983	2253.30	0.234	0.393	
984	2253.40	0.195	0.336	
985	2253.50	0.254	0.420	
986	2253.60	0.334	0.533	
987	2253.70	0.109	0.207	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
988	2253.80	0.166	0.293	
989	2253.90	0.187	0.324	
990	2253.98	0.274	0.450	
991	2254.10	0.158	0.281	
992	2254.20	0.136	0.248	
993	2254.30	0.257	0.424	
994	2254.40	0.073	0.148	
995	2254.50	0.344	0.547	
996	2254.59	0.130	0.238	
997	2254.70	0.383	0.600	
998	2254.80	0.127	0.235	
999	2254.90	0.063	0.131	
1000	2254.98	0.129	0.238	
1001	2255.11	0.079	0.159	
1002	2255.21	0.086	0.169	
1003	2255.30	0.123	0.227	
1004	2255.40	0.126	0.231	
1005	2255.50	0.400	0.621	
1006	2255.60	0.068	0.140	
1007	2255.70	0.158	0.280	
1008	2255.80	0.101	0.193	
1009	2255.90	0.082	0.163	
1010	2255.99	0.098	0.188	
1011	2256.11	0.157	0.279	
1012	2256.20	0.060	0.126	
1013	2256.30	0.079	0.158	
1014	2256.40	0.085	0.169	
1015	2256.50	0.073	0.149	
1016	2256.60	0.067	0.139	
1017	2256.70	0.060	0.126	
1018	2256.80	0.081	0.161	
1019	2256.90	0.056	0.120	
1020	2257.00	0.388	0.601	
1021	2257.11	0.022	0.057	
1022	2257.21	0.030	0.072	
1023	2257.30	0.052	0.111	
1024	2257.40	0.024	0.062	
1025	2257.50	0.025	0.063	
1026	2257.59	0.065	0.134	
Core 3				
1027	2258.53	0.001	0.004	
1028	2258.60	0.001	0.008	
1029	2258.70	0.006	0.021	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1030	2258.80	0.001	0.008	
1031	2258.90	0.113	0.211	
1032	2258.99	0.008	0.026	
1033	2259.10	0.002	0.011	
1034	2259.20	0.003	0.014	
1035	2259.30	0.120	0.221	
1036	2259.41	0.004	0.016	
1037	2259.50	0.638	0.932	possible fractures
1038	2259.61	0.010	0.031	
1039	2259.70	0.008	0.026	
1040	2259.80	0.006	0.021	
1041	2259.90	0.005	0.018	
1042	2260.01	0.005	0.019	
1043	2260.10	0.007	0.025	
1044	2260.20	0.016	0.044	
1045	2260.30	0.009	0.029	
1046	2260.40	0.006	0.023	
1047	2260.50	0.015	0.042	
1048	2260.60	0.009	0.028	
1049	2260.70	0.006	0.022	
1050	2260.80	0.005	0.020	
1051	2260.90	0.008	0.027	
1052	2261.02	0.902	1.27	possible fractures
1053	2261.10	0.008	0.026	
1054	2261.20	0.007	0.023	
1055	2261.30	0.010	0.032	
1056	2261.40	0.018	0.050	
1057	2261.51	0.112	0.210	
1058	2261.60	0.013	0.038	
1059	2261.70	0.193	0.331	possible fractures
1060	2261.80	0.237	0.394	
1061	2261.91	0.014	0.041	
1062	2261.98	0.018	0.050	
1063	2262.10	0.013	0.039	
1064	2262.19	0.286	0.462	possible fractures
1065	2262.30	0.129	0.235	
1066	2262.40	0.008	0.026	
1067	2262.50	0.008	0.028	
1068	2262.60	0.105	0.199	
1069	2262.70	0.067	0.137	
1070	2262.80	0.034	0.081	
1071	2262.90	0.065	0.134	
1072	2263.01	0.029	0.071	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1073	2263.13	0.410	0.629	
1074	2263.21	0.172	0.298	
1075	2263.29	2.38	3.08	
1076	2263.41	216	229	
1077	2263.51	6.30	7.66	
1078	2263.59	37.3	41.4	
1079	2263.70	11.7	13.8	
1080	2263.80	6.01	7.33	
1081	2263.89	6.14	7.48	
1082	2263.99	1.37	1.86	
1083	2264.10	5.19	6.37	
1084	2264.19	4.47	5.55	
1085	2264.31	0.027	0.066	
1086	2264.40	0.334	0.531	
1087	2264.51	0.477	0.723	
1088	2264.60	0.196	0.336	
1089	2264.70	0.014	0.040	
1090	2264.80	0.026	0.065	
1091	2264.90	0.021	0.056	
1092	2265.01	0.014	0.041	
1093	2265.10	0.122	0.225	
1094	2265.20	0.083	0.164	
1095	2265.30	0.203	0.346	
1096	2265.40	1.14	1.56	possible micro-fractures
1097	2265.50	0.252	0.415	
1098	2265.60	0.366	0.575	
1099	2265.70	0.012	0.037	
1100	2265.80	0.007	0.026	
1101	2265.90	0.053	0.114	
1102	2265.98	0.020	0.053	
1103	2266.10	0.015	0.041	
1104	2266.21	0.008	0.026	
1105	2266.30	0.007	0.024	
1106	2266.40	0.006	0.022	
1107	2266.51	0.009	0.030	
1108	2266.60	0.007	0.025	
1109	2266.70	0.007	0.024	
1110	2266.80	0.006	0.022	
1111	2266.89	0.007	0.023	
1112	2267.00	0.342	0.538	possible micro-fractures
1113	2267.10	0.006	0.021	
1114	2267.20	0.065	0.133	
1115	2267.30	0.009	0.030	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1116	2267.40	0.010	0.032	
1117	2267.50	0.017	0.047	
1118	2267.60	0.063	0.131	
1119	2267.70	0.054	0.114	
1120	2267.80	0.024	0.061	
1121	2267.90	0.015	0.044	
1122	2267.99	0.040	0.092	
1123	2268.10	0.015	0.042	
1124	2268.20	0.011	0.035	
1125	2268.30	0.011	0.034	
1126	2268.41	0.016	0.044	
1127	2268.50	0.018	0.048	
1128	2268.60	0.438	0.673	
1129	2268.70	0.051	0.111	possible micro-fractures
1130	2268.80	0.272	0.445	
1131	2268.90	0.239	0.397	
1132	2268.99	0.062	0.128	
1133	2269.10	0.053	0.113	
1134	2269.20	0.007	0.023	
1135	2269.30	0.005	0.018	
1136	2269.40	0.051	0.110	
1137	2269.50	0.187	0.320	
1138	2269.60	0.128	0.233	
1139	2269.70	0.084	0.164	
1140	2269.80	0.229	0.380	
1141	2269.90	0.063	0.130	
1142	2269.98	0.012	0.036	
1143	2270.10	0.057	0.120	
1144	2270.20	0.030	0.072	
1145	2270.30	0.030	0.073	
1146	2270.41	0.021	0.055	
1147	2270.50	0.101	0.192	
1148	2270.60	0.130	0.238	
1149	2270.70	0.065	0.135	
1150	2270.80	0.011	0.033	
1151	2270.90	0.028	0.070	
1152	2270.98	0.121	0.224	
1153	2271.10	0.115	0.214	
1154	2271.20	0.253	0.418	
1155	2271.30	0.083	0.164	
1156	2271.40	0.027	0.067	
1157	2271.50	0.060	0.126	
1158	2271.60	0.217	0.366	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1159	2271.70	0.014	0.041	
1160	2271.80	0.013	0.038	
1161	2271.90	0.010	0.031	
1162	2271.99	0.019	0.051	
1163	2272.10	0.032	0.077	
1164	2272.20	0.033	0.078	
1165	2272.30	0.067	0.137	
1166	2272.41	0.046	0.101	
1167	2272.51	0.008	0.027	
1168	2272.60	0.009	0.029	
1169	2272.70	0.034	0.079	
1170	2272.80	0.020	0.052	
1171	2272.90	0.023	0.060	
1172	2272.99	0.016	0.045	
1173	2273.10	0.016	0.044	
1174	2273.20	0.015	0.043	
1175	2273.30	0.013	0.038	
1176	2273.40	0.041	0.092	
1177	2273.50	0.027	0.067	
1178	2273.60	0.025	0.064	
1179	2273.70	0.056	0.119	
1180	2273.80	0.054	0.116	
1181	2273.90	0.080	0.159	
1182	2273.99	0.020	0.054	
1183	2274.10	0.185	0.320	
1184	2274.20	0.555	0.827	
1185	2274.30	0.304	0.490	
1186	2274.40	2.03	2.67	
1187	2274.51	1.57	2.10	
1188	2274.60	1.50	2.03	
1189	2274.70	1.93	2.60	
1190	2274.80	1.61	2.16	
1191	2274.90	0.592	0.876	
1192	2274.99	181	192	
1193	2275.10	293	308	
1194	2275.20	167	177	
1195	2275.30	28.1	31.5	
1196	2275.40	156	166	
1197	2275.50	17.8	20.4	
1198	2275.60	315	331	
1199	2275.70	291	305	
1200	2275.80	824	852	
1201	2275.90	20.1	22.9	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1202	2275.98	7.97	9.56	
1203	2276.10	0.759	1.09	
1204	2276.20	0.158	0.279	
1205	2276.30	0.404	0.626	
1206	2276.40	1.04	1.45	
1207	2276.50	1.33	1.81	
1208	2276.60	0.311	0.499	
1209	2276.70	15.2	17.6	
1210	2276.80	8.83	10.5	
1211	2276.90	17.8	20.4	
1212	2276.99	4.70	5.81	
1213	2277.10	203	215	
1214	2277.20	3.64	4.56	
1215	2277.30	0.896	1.26	
1216	2277.40	7.93	9.53	
1217	2277.50	4.46	5.54	
1218	2277.60	1.27	1.73	
1219	2277.70	1.56	2.09	
1220	2277.80	0.326	0.519	
1221	2277.90	0.280	0.455	
1222	2277.99	0.193	0.331	
1223	2278.10	0.602	0.886	
1224	2278.20	0.154	0.273	
1225	2278.30	0.183	0.317	
1226	2278.40	0.048	0.106	
1227	2278.50	0.076	0.152	
1228	2278.60	0.052	0.112	
1229	2278.70	0.062	0.130	
1230	2278.80	0.435	0.667	
1231	2278.90	0.190	0.327	
1232	2278.98	0.080	0.160	
1233	2279.10	0.002	0.011	
1234	2279.20	0.006	0.022	
1235	2279.30	0.233	0.388	
1236	2279.40	0.014	0.040	
1237	2279.50	0.013	0.038	
1238	2279.60	0.046	0.102	
1239	2279.70	0.147	0.263	
1240	2279.80	1.07	1.49	
1241	2279.90	1.47	1.97	
1242	2279.98	2.33	3.02	
1243	2280.10	5.42	6.63	
1244	2280.20	3.64	4.57	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1245	2280.31	10.3	12.2	
1246	2280.40	9.96	11.8	
1247	2280.50	8.97	10.7	
1248	2280.60	11.8	13.8	
1249	2280.70	10.6	12.5	
1250	2280.80	11.6	13.6	
1251	2280.90	4.63	5.74	
1252	2280.98	136	145	
1253	2281.10	0.827	1.17	
1254	2281.20	0.347	0.545	
1255	2281.30	0.335	0.529	
1256	2281.41	0.114	0.212	
1257	2281.50	0.116	0.215	
1258	2281.60	0.152	0.270	
1259	2281.70	0.071	0.144	
1260	2281.81	0.068	0.139	
1261	2281.90	0.060	0.126	
1262	2281.99	0.107	0.202	
1263	2282.10	0.137	0.248	
1264	2282.21	0.529	0.792	
1265	2282.30	0.651	0.950	
1266	2282.40	0.374	0.585	
1267	2282.50	0.399	0.620	
1268	2282.60	0.342	0.542	
1269	2282.70	0.130	0.238	
1270	2282.80	0.091	0.177	
1271	2282.90	0.078	0.156	
1272	2282.99	0.083	0.164	
1273	2283.10	0.064	0.132	
1274	2283.20	0.049	0.107	
1275	2283.30	0.062	0.129	
1276	2283.40	0.038	0.089	
1277	2283.50	0.042	0.096	
1278	2283.60	0.038	0.087	
1279	2283.70	0.035	0.083	
1280	2283.80	0.040	0.091	
1281	2283.90	0.074	0.150	
1282	2283.99	0.033	0.078	
1283	2284.10	0.032	0.076	
1284	2284.20	0.027	0.066	
1285	2284.30	0.022	0.057	
1286	2284.40	0.022	0.058	
1287	2284.50	0.214	0.361	possible micro-fractures

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1288	2284.60	0.020	0.053	
1289	2284.70	0.027	0.067	
1290	2284.80	0.031	0.074	
1291	2284.90	0.034	0.081	
1292	2284.99	0.055	0.117	
1293	2285.10	0.088	0.172	
1294	2285.20	0.130	0.237	
1295	2285.30	1.54	2.07	
1296	2285.40	1.85	2.45	
1297	2285.50	13.6	15.8	
1298	2285.60	0.792	1.14	
1299	2285.70	90.7	97.9	
1300	2285.80	0.040	0.090	
1301	2285.90	112	120	
1302	2285.98	130	139	
1303	2286.10	153	163	
1304	2286.20	0.131	0.237	
1305	2286.30	0.051	0.110	
1306	2286.40	0.047	0.103	
1307	2286.49	0.101	0.192	
1308	2286.60	1.31	1.78	
1309	2286.70	0.984	1.37	
1310	2286.80	0.405	0.625	
1311	2286.90	0.280	0.454	
1312	2286.99	0.345	0.545	
1313	2287.10	0.111	0.207	
1314	2287.20	0.115	0.214	
1315	2287.30	0.089	0.173	
1316	2287.40	0.095	0.183	
1317	2287.50	0.048	0.105	
1318	2287.60	0.046	0.101	
1319	2287.70	0.033	0.079	
1320	2287.80	0.207	0.352	
1321	2287.90	0.210	0.356	
1322	2287.99	0.138	0.249	
1323	2288.10	0.024	0.060	
1324	2288.20	0.019	0.052	
1325	2288.30	0.036	0.084	
1326	2288.40	0.049	0.107	
1327	2288.50	0.024	0.059	
1328	2288.60	0.027	0.066	
1329	2288.70	0.024	0.060	
1330	2288.80	0.021	0.054	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1331	2288.89	0.026	0.064	
1332	2288.99	0.016	0.044	
1333	2289.10	0.017	0.046	
1334	2289.20	0.026	0.065	
1335	2289.30	0.015	0.042	
1336	2289.40	<0.001	0.001	
1337	2289.51	0.007	0.024	
1338	2289.60	0.009	0.028	
1339	2289.70	0.009	0.028	
1340	2289.80	0.010	0.032	
1341	2289.90	0.010	0.031	
1342	2289.97	0.013	0.038	
1343	2290.10	0.011	0.034	
1344	2290.20	0.017	0.046	
1345	2290.30	0.007	0.023	
1346	2290.40	0.053	0.114	
1347	2290.51	0.314	0.501	
1348	2290.60	0.290	0.467	
1349	2290.70	0.271	0.441	
1350	2290.80	0.013	0.038	
1351	2290.90	0.144	0.258	
1352	2290.99	0.083	0.163	
1353	2291.10	0.021	0.054	
1354	2291.20	0.024	0.060	
1355	2291.30	0.021	0.055	
1356	2291.40	0.099	0.188	
1357	2291.50	0.057	0.120	
1358	2291.60	0.055	0.118	
1359	2291.70	0.110	0.205	
1360	2291.80	0.025	0.063	
1361	2291.90	0.032	0.077	
1362	2291.98	0.036	0.083	
1363	2292.10	0.028	0.069	
1364	2292.20	0.028	0.068	
1365	2292.30	0.016	0.044	
1366	2292.40	0.027	0.067	
1367	2292.50	0.043	0.095	
1368	2292.60	0.071	0.144	
1369	2292.70	0.161	0.283	
1370	2292.80	0.067	0.137	
1371	2292.90	0.044	0.099	
1372	2292.98	0.145	0.260	
1373	2293.10	0.030	0.073	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1374	2293.20	0.017	0.046	
1375	2293.29	0.015	0.043	
1376	2293.40	0.151	0.269	
1377	2293.51	0.016	0.045	
1378	2293.60	0.023	0.059	
1379	2293.70	0.046	0.101	
1380	2293.80	0.030	0.072	
1381	2293.89	0.018	0.048	
1382	2293.99	0.015	0.042	
1383	2294.09	0.075	0.150	
1384	2294.21	0.029	0.071	
1385	2294.30	0.233	0.388	possible micro-fractures
1386	2294.40	0.018	0.050	
1387	2294.51	0.010	0.032	
1388	2294.60	0.014	0.040	
1389	2294.70	0.028	0.069	
1390	2294.80	0.020	0.053	
1391	2294.90	0.019	0.050	
1392	2294.98	0.024	0.060	
1393	2295.10	0.031	0.074	
1394	2295.20	0.117	0.216	
1395	2295.31	0.103	0.195	
1396	2295.40	0.212	0.356	
1397	2295.50	0.089	0.173	
1398	2295.60	22.4	25.4	
1399	2295.70	4.96	6.11	
1400	2295.82	7260	7370	
1401	2295.89	622	645	
1402	2295.99	3210	3280	
1403	2296.10	9140	9270	
1404	2296.20	2570	2630	
1405	2296.30	3320	3390	
1406	2296.40	5020	5110	
1407	2296.50	3080	3150	
1408	2296.60	4180	4250	
1409	2296.70	1780	1830	
1410	2296.80	2870	2930	
1411	2296.90	2240	2290	
1412	2296.98	1510	1550	
1413	2297.10	2240	2290	
1414	2297.20	1410	1450	
1415	2297.30	298	313	
1416	2297.40	444	463	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1417	2297.50	456	475	
1418	2297.60	215	227	
1419	2297.70	610	633	
1420	2297.80	1870	1920	
1421	2297.90	17.6	20.2	
1422	2297.98	3270	3330	
1423	2298.10	828	856	
1424	2298.20	973	1000	
1425	2298.30	1320	1350	
1426	2298.40	204	216	
1427	2298.50	482	502	
1428	2298.60	585	607	
1429	2298.70	913	943	
1430	2298.80	40.9	45.3	
1431	2298.90	1310	1350	
1432	2298.98	2480	2540	
1433	2299.10	348	364	
1434	2299.19	1870	1920	
1435	2299.40	5970	6060	
1436	2299.50	231	243	
1437	2299.60	2130	2180	
1438	2299.70	6680	6780	
1439	2299.80	1250	1290	
1440	2299.90	1920	1970	
1441	2299.98	5410	5500	
1442	2300.10	88.0	95.0	
1443	2300.20	0.565	0.831	
1444	2300.30	93.2	101	
1445	2300.40	3.27	4.12	
1446	2300.50	34.1	38.0	
1447	2300.60	53.0	58.1	
1448	2300.70	0.105	0.196	
1449	2300.80	10.1	11.9	
1450	2300.90	130	139	
1451	2300.99	50.8	55.8	
1452	2301.09	37.7	41.9	
1453	2301.20	74.1	80.3	
1454	2301.31	4.65	5.75	
1455	2301.40	0.241	0.397	
1456	2301.51	23.9	27.0	
1457	2301.60	73.0	79.2	
1458	2301.70	0.111	0.207	
1459	2301.80	0.145	0.258	



## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1460	2301.90	0.176	0.304	
1461	2301.99	0.161	0.283	
1462	2302.10	0.045	0.099	
1463	2302.20	0.019	0.050	
1464	2302.30	0.031	0.075	
1465	2302.40	0.210	0.355	micro-fractures
1466	2302.50	0.027	0.067	
1467	2302.60	0.028	0.069	
1468	2302.69	0.055	0.118	
1469	2302.81	0.030	0.073	
1470	2302.89	0.194	0.331	possible micro-fractures
1471	2302.98	0.048	0.104	
1472	2303.10	0.182	0.314	
1473	2303.20	0.067	0.138	
1474	2303.30	0.145	0.259	
1475	2303.40	0.025	0.063	
1476	2303.50	0.067	0.137	
1477	2303.60	0.020	0.052	
1478	2303.70	0.019	0.051	
1479	2303.80	0.014	0.041	
1480	2303.90	0.012	0.037	
1481	2303.99	0.011	0.035	
1482	2304.10	0.017	0.046	
1483	2304.20	0.016	0.046	
1484	2304.30	0.019	0.051	
1485	2304.40	0.015	0.043	
1486	2304.51	0.015	0.042	
1487	2304.61	0.020	0.054	
1488	2304.71	0.017	0.046	
1489	2304.81	0.016	0.046	
1490	2304.90	0.016	0.045	
1491	2304.97	0.098	0.187	
1492	2305.11	0.057	0.121	
1493	2305.20	0.020	0.053	
1494	2305.30	0.027	0.066	
1495	2305.40	0.036	0.083	
1496	2305.50	0.018	0.049	
1497	2305.60	0.018	0.049	
1498	2305.70	0.031	0.073	
1499	2305.80	0.048	0.104	
1500	2305.90	0.044	0.098	
1501	2305.98	0.072	0.146	
1502	2306.10	0.210	0.354	

## PROFILE PERMEAMETRY

SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1503	2306.20	0.292	0.471	
1504	2306.30	0.287	0.464	
1505	2306.40	0.288	0.466	
1506	2306.50	0.264	0.432	
1507	2306.60	0.312	0.499	
1508	2306.70	0.185	0.318	
1509	2306.80	0.138	0.249	
1510	2306.90	0.073	0.148	
1511	2306.99	0.068	0.139	
1512	2307.10	0.050	0.108	
1513	2307.20	0.056	0.119	
1514	2307.30	0.054	0.115	
1515	2307.40	0.042	0.094	
1516	2307.50	0.026	0.065	
1517	2307.60	0.025	0.062	
1518	2307.71	0.025	0.063	
1519	2307.80	0.029	0.069	
1520	2307.90	0.050	0.107	
1521	2307.99	0.091	0.175	
1522	2308.10	0.069	0.139	
1523	2308.20	0.121	0.220	
1524	2308.30	0.259	0.422	
1525	2308.40	0.185	0.316	
1526	2308.50	0.197	0.334	
1527	2308.60	0.124	0.227	
1528	2308.70	0.127	0.231	
1529	2308.80	0.070	0.142	
1530	2308.90	0.053	0.113	
1531	2308.99	0.041	0.093	
1532	2309.10	0.033	0.079	
1533	2309.19	0.029	0.069	
1534	2309.27	0.362	0.566	possible micro-fractures
1535	2309.42	0.055	0.117	
1536	2309.50	0.168	0.293	
1537	2309.61	3.80	4.76	
1538	2309.70	841	869	
1539	2309.80	52.2	57.2	
1540	2309.90	6.17	7.51	
1541	2309.98	28.2	31.6	
1542	2310.11	1.48	2.00	
1543	2310.20	0.345	0.544	
1544	2310.30	0.190	0.326	
1545	2310.40	0.116	0.214	

## PROFILE PERMEAMETRY

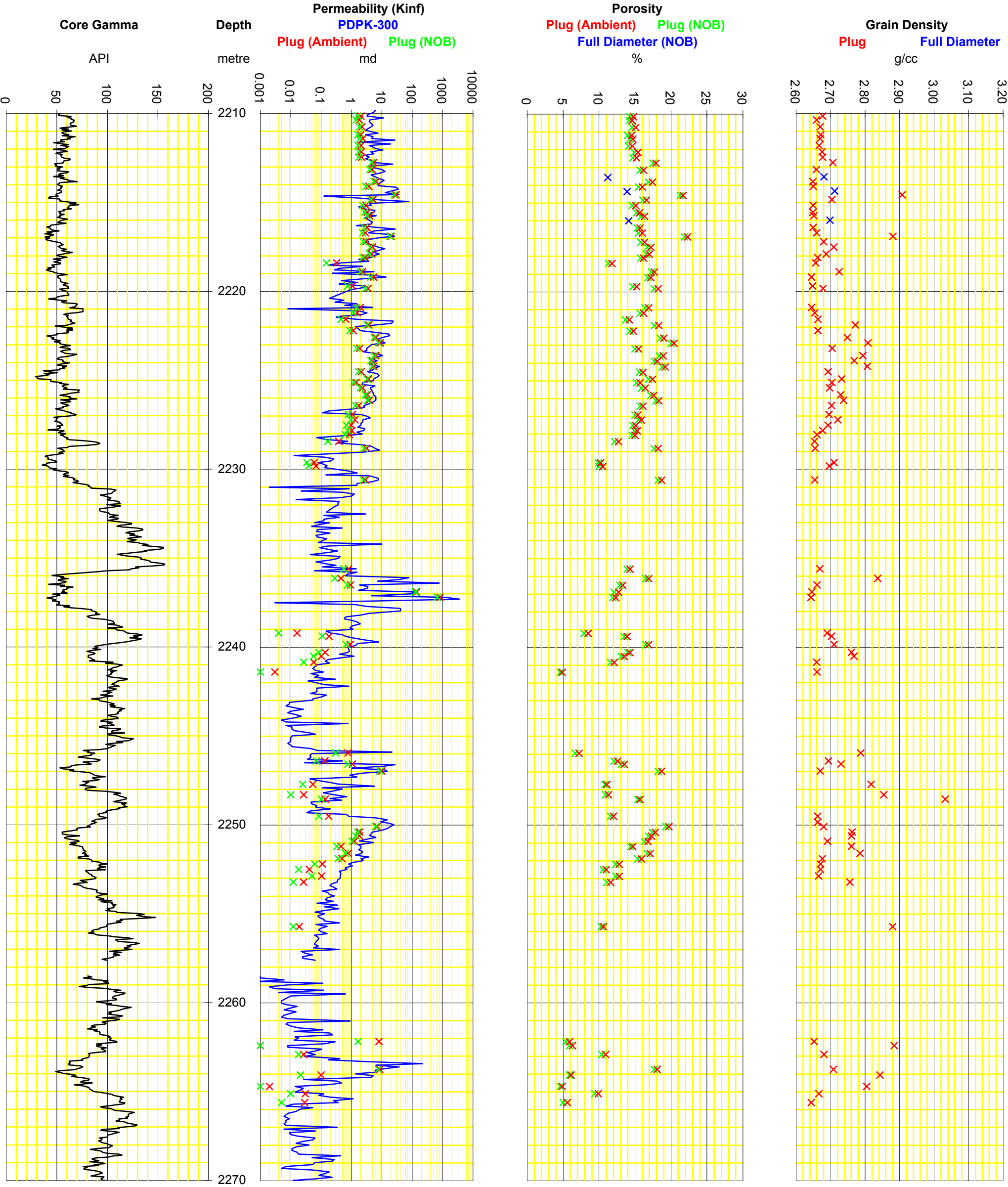
SAMPLE POINT	DEPTH (m)	PERMEABILITY		COMMENTS
		Kinf (md)	Ka (md)	
1546	2310.50	1.06	1.47	
1547	2310.60	4.31	5.36	
1548	2310.70	0.331	0.526	
1549	2310.80	0.073	0.147	
1550	2310.91	8.65	10.3	
1551	2310.99	2.85	3.63	
1552	2311.10	0.863	1.22	
1553	2311.20	2.59	3.33	
1554	2311.30	1.04	1.45	
1555	2311.40	1.03	1.44	
1556	2311.50	0.329	0.522	
1557	2311.60	0.107	0.202	
1558	2311.70	0.576	0.850	
1559	2311.80	0.283	0.458	
1560	2311.91	0.182	0.315	
1561	2311.99	0.100	0.190	
1562	2312.10	0.150	0.265	
1563	2312.20	0.075	0.150	
1564	2312.30	0.085	0.166	
1565	2312.40	0.110	0.205	
1566	2312.50	0.114	0.211	
1567	2312.60	0.103	0.194	
1568	2312.70	0.085	0.167	
1569	2312.80	0.105	0.198	
1570	2312.90	0.069	0.140	
1571	2312.99	0.089	0.173	
1572	2313.10	0.082	0.161	
1573	2313.20	0.065	0.134	
1574	2313.30	0.269	0.438	
1575	2313.40	0.050	0.108	
1576	2313.50	0.058	0.122	
1577	2313.59	0.215	0.362	
1578	2313.70	0.513	0.769	
1579	2313.80	1.27	1.73	
1580	2313.90	1.68	2.23	





INTEGRATED CORELOG

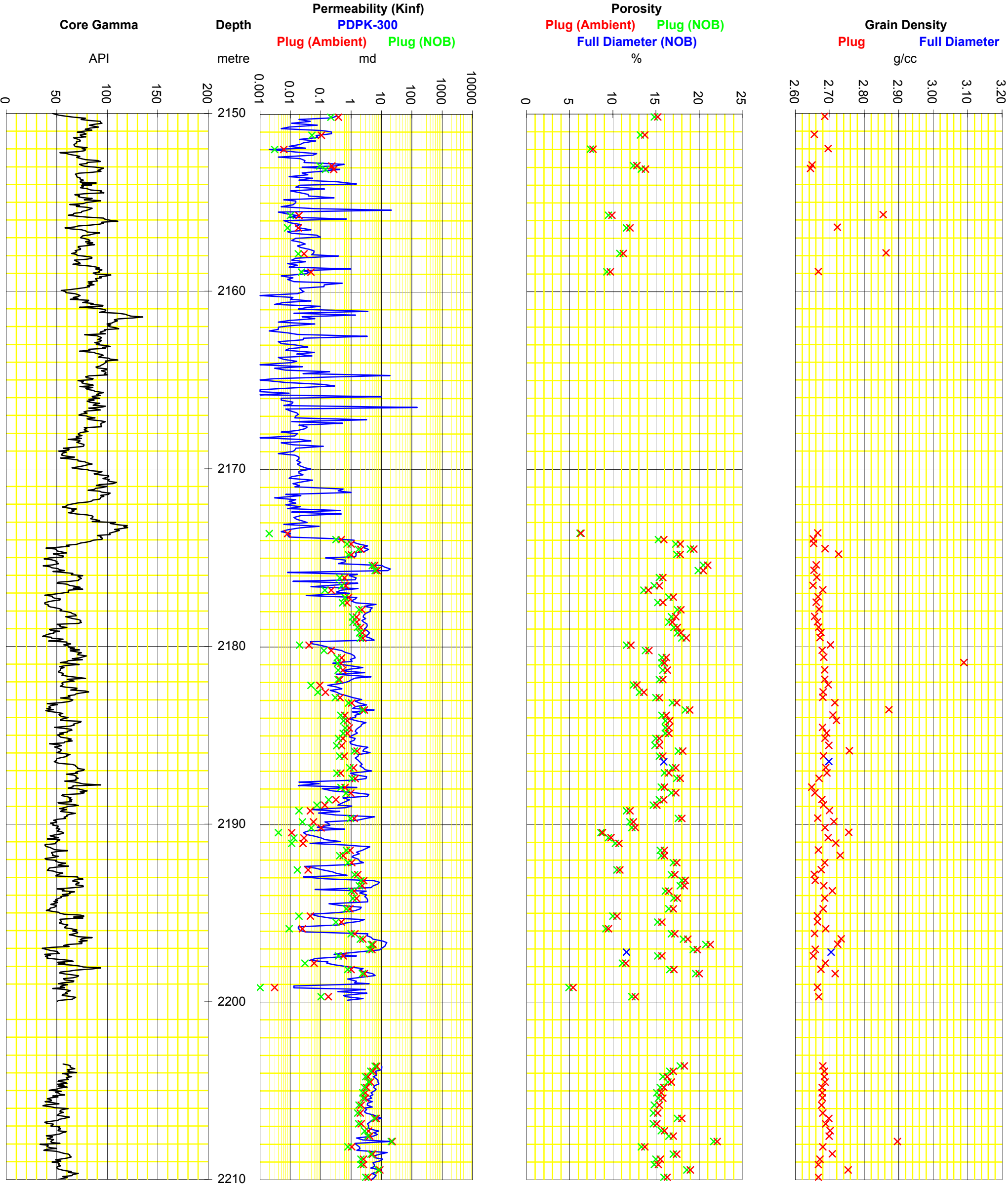
VERTICAL SCALE  
1 : 200





INTEGRATED CORELOG

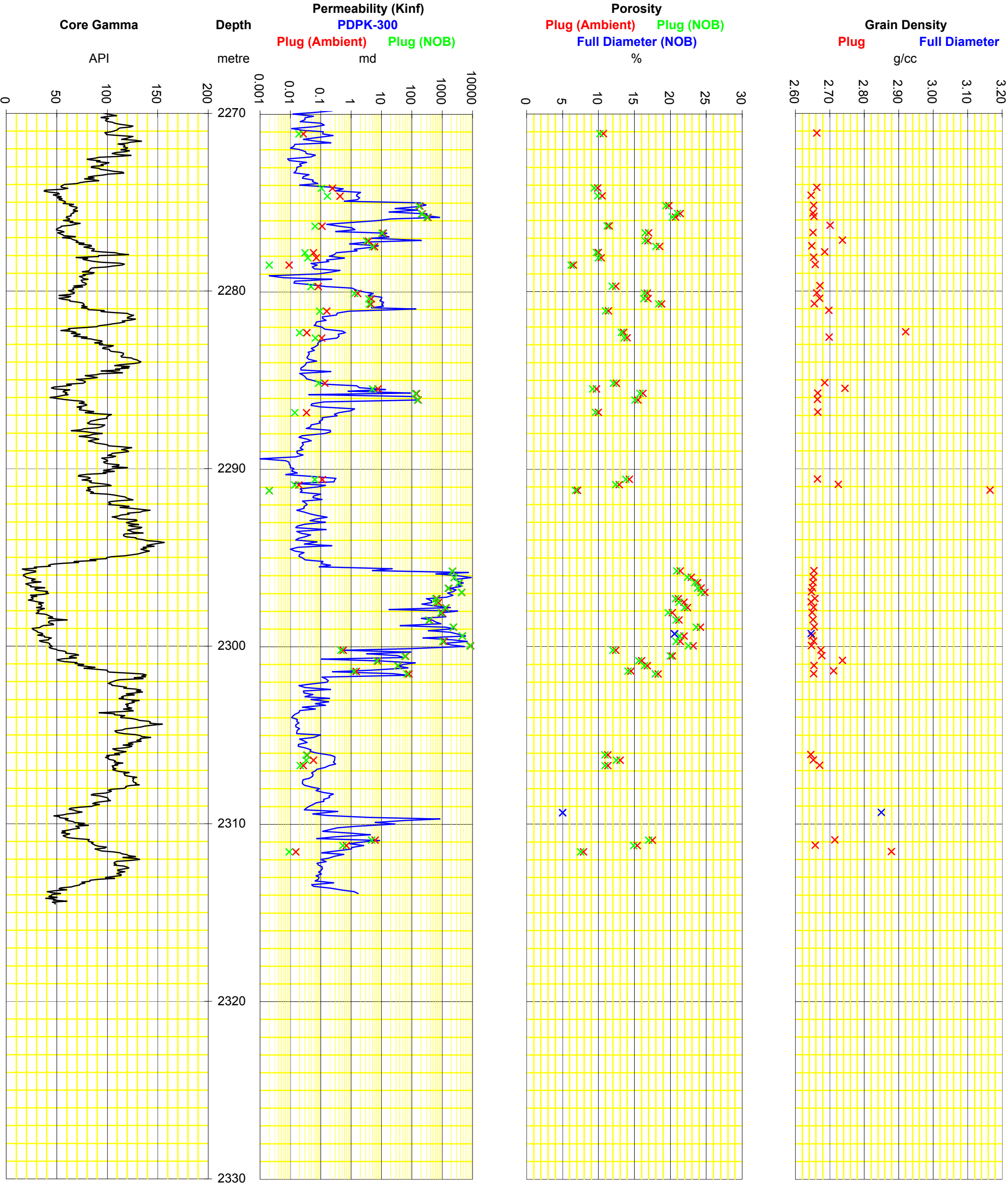
VERTICAL SCALE  
1 : 200





INTEGRATED CORELOG

VERTICAL SCALE  
1 : 200





## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			

### Core 1 - 1900psig NOB pressure

1	2150.16	0.380	0.558	15.2	0.213	0.334	14.8	2.685	
2	2151.18	0.106	0.179	13.7	0.051	0.098	13.2	2.655	
3	2151.97	0.006	0.013	7.7	0.003	0.006	7.4	2.695	
4	2152.90	0.231	0.327	12.8	0.094	0.155	12.4	2.649	
5	2153.10	0.267	0.409	13.8	0.142	0.237	13.3	2.644	
6	2155.70	0.019	0.040	9.9	0.010	0.023	9.5	2.855	
7	2156.40	0.018	0.039	12.0	0.008	0.021	11.6	2.722	
8	2157.85	0.028	0.056	11.2	0.018	0.036	10.8	2.863	
9	2158.89	0.048	0.098	9.7	0.023	0.052	9.3	2.667	
10	2173.60	0.008	0.017	6.3	0.002	0.006	6.2	2.665	
11	2173.95	0.475	0.711	15.9	0.319	0.497	15.3	2.652	
12	2174.20	0.992	1.40	17.8	0.726	1.06	17.3	2.653	
1V	2174.40	1.31	1.78	19.2	1.06	1.46	18.7	2.682	
13	2174.50	2.12	2.80	19.4	1.74	2.31	19.0	2.686	
14	2174.80	1.02	1.43	17.8	0.833	1.18	17.4	2.726	
15	2175.40	5.91	7.28	21.0	5.04	6.26	20.5	2.661	
2V	2175.60	8.12	9.69	20.1	6.99	8.39	19.7	2.656	
16	2175.70	7.22	8.75	20.5	6.19	7.54	19.9	2.654	pyrite nodules
17	2176.10	0.598	0.886	15.8	0.422	0.645	15.4	2.662	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
18	2176.55	0.666	0.972	15.4	0.484	0.724	14.8	2.651	
19	2176.80	0.221	0.349	14.1	0.135	0.230	13.6	2.680	
3V	2177.15	1.17	1.60	18.7	0.950	1.31	18.2	2.708	
20	2177.20	0.833	1.20	17.0	0.631	0.930	16.5	2.666	
21	2177.50	0.740	1.06	15.8	0.528	0.780	15.2	2.661	
22	2177.90	2.26	2.94	17.9	1.82	2.39	17.5	2.669	
4V	2178.05	2.15	2.81	18.7	1.77	2.33	18.3	2.659	
23	2178.30	1.50	2.04	17.3	1.14	1.57	16.8	2.656	
24	2178.60	1.53	2.06	16.9	1.16	1.59	16.5	2.664	
25	2178.90	2.06	2.72	17.5	1.63	2.17	17.1	2.668	
5V	2178.95	1.21	1.64	17.3	0.926	1.28	16.8	2.680	
26	2179.20	2.38	3.10	17.9	1.90	2.50	17.5	2.674	
27	2179.50	2.44	3.19	18.5	1.99	2.62	18.0	2.672	
28	2179.90	0.041	0.085	12.1	0.020	0.050	11.6	2.702	
6V	2179.95	0.038	0.078	12.3	0.017	0.042	11.9	2.696	
29	2180.20	0.220	0.354	14.2	0.127	0.225	13.8	2.678	
30	2180.60	0.492	0.735	16.2	0.349	0.540	15.7	2.683	
7V	2180.83	0.334	0.469	15.4	0.174	0.293	15.0	2.734	
31	2180.90	0.464	0.655	16.0	0.354	0.519	15.7	3.089	
32	2181.30	0.541	0.805	16.3	0.376	0.582	15.8	2.685	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
33	2181.84	0.418	0.640	15.8	0.373	0.509	15.4	2.685	
8V	2181.97	0.207	0.325	15.0	0.127	0.216	14.6	2.684	
34	2182.15	0.093	0.166	12.8	0.047	0.097	12.4	2.695	
35	2182.55	0.145	0.247	13.6	0.081	0.153	13.1	2.681	
36	2182.85	0.432	0.660	15.4	0.305	0.482	15.0	2.680	
9V	2182.90	0.368	0.499	15.5	0.188	0.307	15.1	2.687	
37	2183.15	1.05	1.46	17.4	0.832	1.18	16.9	2.715	
38	2183.55	2.76	3.52	18.9	2.35	2.99	18.4	2.872	
39	2183.85	0.614	0.907	16.2	0.452	0.684	15.7	2.709	
10V	2183.90	0.391	0.591	15.8	0.321	0.454	15.3	2.690	
40	2184.15	0.744	1.07	16.6	0.557	0.820	16.1	2.719	
41	2184.55	0.860	1.23	16.5	0.637	0.932	16.1	2.679	
11V	2184.80	0.666	0.955	17.2	0.496	0.729	16.7	2.703	
42	2184.86	0.741	1.08	16.5	0.548	0.815	16.1	2.691	
43	2185.15	0.536	0.798	15.4	0.382	0.587	15.0	2.686	
44	2185.55	0.484	0.728	15.4	0.330	0.517	14.9	2.697	
45	2185.86	1.59	2.15	18.1	1.28	1.74	17.6	2.757	
12V	2185.97	1.19	1.63	18.5	0.967	1.33	18.1	2.734	
46	2186.15	0.593	0.873	15.8	0.418	0.636	15.4	2.682	
47	2186.80	1.21	1.67	17.3	0.917	1.29	16.9	2.688	



## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
13V	2187.05	0.343	0.535	16.6	0.253	0.402	16.1	2.697	
48	2187.10	0.453	0.687	16.5	0.339	0.527	16.0	2.692	
49	2187.40	1.38	1.89	17.8	1.07	1.50	17.4	2.669	
50	2187.90	0.638	0.927	16.0	0.460	0.683	15.6	2.648	
51	2188.22	0.984	1.38	17.3	0.687	1.00	16.8	2.657	
14V	2188.30	1.46	1.97	18.7	1.12	1.55	18.3	2.665	
52	2188.60	0.319	0.501	15.9	0.184	0.314	15.4	2.677	
53	2188.90	0.138	0.240	15.1	0.075	0.147	14.7	2.682	
54	2189.23	0.045	0.093	12.0	0.019	0.048	11.6	2.699	
55	2189.65	1.28	1.78	18.0	0.950	1.35	17.6	2.665	
15V	2189.75	0.522	0.774	17.1	0.375	0.573	16.7	2.673	
56	2189.85	0.057	0.110	12.4	0.025	0.058	12.0	2.712	
57	2190.18	0.102	0.175	12.6	0.049	0.099	12.2	2.686	
58	2190.45	0.011	0.021	8.8	0.004	0.011	8.6	2.755	
16V	2190.50	0.009	0.017	8.8	0.003	0.008	8.5	2.732	
59	2190.75	0.028	0.061	9.8	0.013	0.034	9.5	2.695	
60	2191.06	0.026	0.057	10.7	0.011	0.029	10.3	2.717	
61	2191.45	0.929	1.29	16.0	0.696	0.996	15.5	2.667	
17V	2191.50	0.552	0.816	15.4	0.401	0.611	15.0	2.670	
62	2191.75	0.553	0.823	16.0	0.417	0.636	15.6	2.730	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
63	2192.15	1.04	1.46	17.4	0.796	1.15	17.0	2.685	
64	2192.55	0.038	0.081	10.8	0.017	0.043	10.5	2.675	
18V	2192.65	0.031	0.065	11.7	0.014	0.035	11.3	2.677	
65	2192.82	1.65	2.22	17.2	1.31	1.79	16.8	2.655	
66	2193.15	2.60	3.41	18.4	2.10	2.78	18.0	2.658	
19V	2193.24	3.01	3.87	19.5	2.61	3.36	19.0	2.667	
67	2193.45	2.29	3.03	18.3	1.87	2.50	17.8	2.683	
68	2193.75	1.27	1.76	16.5	1.02	1.44	16.1	2.707	
69	2194.15	1.51	2.05	17.5	1.16	1.61	17.1	2.685	
20V	2194.22	0.731	1.05	17.2	0.554	0.817	16.7	2.685	
70	2194.75	0.915	1.31	17.0	0.694	1.02	16.5	2.681	
71	2195.15	0.045	0.089	10.5	0.019	0.046	10.0	2.664	
72	2195.49	0.475	0.722	15.7	0.315	0.504	15.2	2.664	
21V	2195.55	0.154	0.257	14.4	0.092	0.169	14.0	2.667	
73	2195.87	0.025	0.050	9.5	0.009	0.023	9.2	2.688	
74	2196.15	1.33	1.83	17.2	0.991	1.40	16.8	2.656	
22V	2196.20	1.03	1.44	17.7	0.798	1.13	17.2	2.662	
75	2196.45	2.42	3.19	18.7	2.02	2.67	18.2	2.733	
76	2196.75	5.25	6.51	21.3	4.60	5.72	20.8	2.723	
77	2197.04	4.83	6.00	19.8	4.13	5.16	19.3	2.658	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY (%)	PERMEABILITY		POROSITY (%)		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
23V	2197.08	3.02	3.90	19.3	2.71	3.45	18.9	2.656	
78	2197.40	0.552	0.824	15.7	0.384	0.594	15.2	2.652	
79	2197.81	0.061	0.120	11.5	0.030	0.067	11.1	2.687	
80	2198.16	1.01	1.42	17.1	0.766	1.10	16.6	2.674	
24V	2198.25	0.762	1.09	17.5	0.607	0.880	17.1	2.699	
81	2198.40	2.77	3.61	20.0	2.37	3.09	19.6	2.716	
82	2199.17	0.003	0.007	5.4	0.001	0.002	4.9	2.664	
25V	2199.66	0.464	0.606	16.9	0.254	0.410	16.5	2.740	
83	2199.70	0.176	0.276	12.6	0.103	0.177	12.2	2.668	
Core 2 - 1960psig NOB pressure									
84	2203.60	6.94	8.27	18.3	6.12	7.31	17.8	2.680	
85	2203.90	5.25	6.37	17.0	4.46	5.44	16.6	2.684	
26V	2203.95	2.88	3.64	16.6	2.48	3.12	16.1	2.687	
86	2204.20	3.55	4.43	16.3	3.00	3.77	15.8	2.684	
87	2204.50	4.32	5.31	16.8	3.72	4.59	16.4	2.686	
88	2204.80	3.24	4.06	15.9	2.73	3.44	15.5	2.678	
27V	2204.89	2.30	2.94	16.2	1.92	2.46	15.8	2.694	
89	2205.10	2.94	3.73	15.6	2.44	3.12	15.1	2.678	
90	2205.40	2.91	3.69	15.8	2.46	3.14	15.3	2.679	
91	2205.80	2.14	2.78	15.4	1.80	2.35	14.8	2.676	



## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
28V	2205.95	1.34	1.79	15.4	1.09	1.46	14.9	2.676	
92	2206.25	1.99	2.61	15.2	1.65	2.16	14.7	2.680	
93	2206.55	6.72	8.01	18.0	5.97	7.13	17.5	2.697	
94	2206.85	2.17	2.79	15.1	1.78	2.31	14.7	2.688	
29V	2206.96	1.51	1.98	15.6	1.25	1.64	15.1	2.704	
95	2207.25	3.71	4.57	16.0	2.81	3.54	15.6	2.701	
96	2207.55	4.12	5.08	17.0	3.56	4.40	16.5	2.698	
97	2207.84	22.4	25.1	22.1	20.9	23.4	21.7	2.896	
30V	2208.05	0.450	0.651	13.0	0.307	0.461	12.6	2.691	
98	2208.15	1.04	1.43	13.7	0.788	1.10	13.3	2.680	
99	2208.55	5.16	6.27	17.4	4.51	5.49	17.0	2.707	
100	2208.85	2.55	3.27	15.5	2.12	2.74	15.0	2.672	
101	2209.15	2.56	3.29	15.3	2.12	2.74	14.8	2.667	
31V	2209.20	1.95	2.52	15.6	1.51	1.98	15.2	2.675	
102	2209.45	8.79	10.3	19.0	7.85	9.25	18.6	2.753	
103	2209.85	3.65	4.58	16.3	3.04	3.84	15.9	2.667	
32V	2210.05	1.41	1.87	15.2	1.10	1.48	14.7	2.667	
104	2210.15	2.06	2.68	14.8	1.60	2.12	14.3	2.677	
105	2210.35	1.84	2.43	14.6	1.45	1.93	14.2	2.660	
106	2210.75	2.23	2.89	15.1	1.83	2.38	14.6	2.670	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
33V	2211.12	1.26	1.69	14.7	0.997	1.35	14.2	2.716	
107	2211.20	2.00	2.61	14.5	1.60	2.11	14.0	2.672	
108	2211.40	2.35	3.04	14.7	1.86	2.43	14.3	2.670	
109	2211.80	2.07	2.71	14.6	1.65	2.18	14.1	2.667	
34V	2212.05	5.34	6.44	18.1	4.58	5.54	17.7	2.726	
110	2212.15	2.11	2.75	15.4	1.72	2.26	14.9	2.675	
111	2212.45	2.16	2.80	15.2	1.73	2.27	14.7	2.677	
112	2212.75	5.35	6.52	17.9	4.59	5.63	17.5	2.706	
113	2213.15	4.80	5.91	16.2	3.98	4.93	15.7	2.659	
35V	2213.20	3.36	4.23	16.7	2.83	3.56	16.2	2.661	
114	2213.82	6.57	7.96	17.4	5.53	6.75	16.9	2.649	
115	2214.09	3.71	4.67	16.0	3.04	3.87	15.5	2.650	
116	2214.58	29.2	33.2	21.7	25.5	28.9	21.3	2.907	
36V	2214.64	0.040	0.073	12.1	0.020	0.044	11.7	3.111	
117	2214.84	5.16	6.30	16.6	4.32	5.31	16.1	2.704	
118	2215.15	2.91	3.71	15.1	2.34	3.02	14.6	2.650	
37V	2215.45	2.70	3.46	16.6	2.24	2.88	16.1	2.653	
119	2215.55	3.35	4.24	15.6	2.72	3.48	15.2	2.649	
120	2215.75	3.96	4.97	16.3	3.24	4.12	15.9	2.651	
121	2216.40	3.24	4.16	15.7	2.67	3.46	15.3	2.650	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
38V	2216.66	1.90	2.47	15.8	1.51	1.99	15.3	2.661	
122	2216.70	2.90	3.72	16.0	2.32	3.03	15.5	2.660	
123	2216.90	20.2	22.8	22.3	18.7	21.1	21.9	2.881	
124	2217.20	3.01	3.82	16.3	2.49	3.19	15.8	2.680	
125	2217.50	4.87	5.98	17.2	4.15	5.12	16.7	2.709	
39V	2217.55	7.89	9.35	18.8	7.05	8.36	18.3	2.743	
126	2217.89	4.65	5.74	17.0	4.03	4.99	16.6	2.687	
127	2218.10	2.80	3.62	16.2	2.36	3.04	15.8	2.662	
128	2218.40	0.322	0.445	11.8	0.149	0.258	11.3	2.657	
40V	2218.46	0.193	0.310	12.1	0.109	0.193	11.6	2.662	
129	2218.89	2.29	3.02	17.7	1.94	2.56	17.3	2.725	
130	2219.20	5.34	6.58	17.2	4.36	5.42	16.8	2.645	
41V	2219.65	0.710	1.05	16.3	0.441	0.708	15.8	2.647	
131	2219.70	1.07	1.48	15.2	0.752	1.07	14.7	2.648	
132	2219.83	3.54	4.52	18.2	2.89	3.74	17.7	2.678	
42V	2220.86	3.54	4.52	18.6	2.93	3.80	18.1	2.646	
133	2220.90	1.96	2.59	16.9	1.46	1.98	16.4	2.645	
134	2221.20	1.53	2.07	16.2	1.19	1.64	15.7	2.654	
135	2221.57	0.653	0.958	14.2	0.457	0.694	13.7	2.663	
136	2221.89	3.76	4.78	18.3	3.27	4.17	17.7	2.772	



## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
43V	2221.95	1.08	1.49	16.8	0.861	1.21	16.4	2.752	
137	2222.21	1.15	1.60	14.8	0.892	1.26	14.3	2.663	
138	2222.60	6.37	7.74	19.0	5.67	6.89	18.5	2.749	
139	2222.89	8.77	10.4	20.4	7.92	9.43	20.0	2.808	
44V	2222.96	3.33	4.23	18.1	2.90	3.69	17.7	2.749	
140	2223.20	1.86	2.47	15.5	1.50	2.01	15.0	2.705	
141	2223.60	6.33	7.69	18.9	5.64	6.86	18.4	2.794	
142	2223.90	4.90	6.05	18.1	4.28	5.29	17.7	2.769	
45V	2223.96	3.93	4.88	18.8	3.54	4.39	18.4	2.772	
143	2224.22	5.37	6.59	19.2	4.83	5.93	18.8	2.806	
144	2224.52	2.12	2.78	16.1	1.75	2.32	15.6	2.693	
145	2224.92	3.69	4.65	17.4	3.23	4.08	16.9	2.732	
46V	2225.04	1.42	1.90	16.5	1.18	1.58	16.0	2.708	
146	2225.12	1.45	1.96	15.7	1.21	1.64	15.2	2.704	
147	2225.42	2.29	2.98	16.4	1.94	2.54	15.9	2.697	
148	2225.82	3.34	4.26	17.6	2.87	3.68	17.2	2.729	
47V	2225.96	2.91	3.70	18.1	2.49	3.19	17.7	2.715	
149	2226.12	3.87	4.90	18.3	3.38	4.28	17.9	2.738	
150	2226.42	1.73	2.32	16.1	1.37	1.86	15.7	2.703	
151	2226.92	1.08	1.52	15.4	0.791	1.15	15.0	2.695	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
48V	2227.04	1.58	2.13	17.1	1.26	1.72	16.7	2.710	
152	2227.22	1.29	1.80	15.9	0.964	1.37	15.5	2.721	
153	2227.52	0.965	1.38	15.1	0.686	1.01	14.7	2.693	
154	2227.82	1.03	1.47	15.3	0.749	1.10	14.9	2.677	
49V	2227.92	0.484	0.716	14.5	0.309	0.485	14.0	2.662	
155	2228.06	0.867	1.24	15.0	0.622	0.921	14.6	2.661	
156	2228.42	0.380	0.507	12.7	0.167	0.283	12.2	2.653	
157	2228.82	3.17	4.14	18.2	2.60	3.44	17.7	2.655	
50V	2228.88	2.81	3.64	18.5	2.26	2.96	18.0	2.651	
158	2229.62	0.061	0.117	10.2	0.034	0.071	9.9	2.710	
159	2229.82	0.068	0.129	10.5	0.039	0.080	10.0	2.696	
51V	2230.52	2.92	3.79	19.0	2.27	3.02	18.5	2.659	
160	2230.60	2.87	3.82	18.7	2.41	3.22	18.2	2.654	
161	2235.60	0.797	1.10	14.3	0.557	0.799	13.9	2.669	
162	2236.13	0.453	0.689	16.9	0.279	0.472	16.5	2.837	
163	2236.50	0.934	1.31	13.3	0.727	1.03	12.9	2.661	
164	2236.90	141	185	12.7	128	170	12.1	2.646	
165	2237.19	834	923	12.3	668	877	11.9	2.643	
52V	2237.25	125	146	11.8	114	135	11.3	2.645	
166	2239.20	0.016	0.027	8.5	0.004	0.011	7.9	2.690	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
167	2239.39	0.182	0.307	13.9	0.109	0.207	13.5	2.703	
53V	2239.73	0.406	0.631	16.2	0.329	0.476	15.8	2.692	
168	2239.84	0.899	1.29	16.9	0.662	0.988	16.5	2.710	
169	2240.30	0.135	0.242	14.3	0.084	0.166	14.0	2.761	
170	2240.50	0.102	0.190	13.5	0.056	0.121	13.1	2.768	
54V	2240.55	0.112	0.208	14.3	0.058	0.127	13.8	2.664	
171	2240.84	0.058	0.114	12.1	0.027	0.065	11.6	2.660	
172	2241.39	0.003	0.006	4.9	0.001	0.002	4.6	2.661	
173	2245.95	0.766	0.938	7.2	0.305	0.404	6.7	2.787	
174	2246.40	0.133	0.234	12.6	0.070	0.143	12.1	2.694	
175	2246.58	1.08	1.53	13.5	0.771	1.14	13.1	2.730	
176	2246.96	9.99	11.9	18.7	8.62	10.4	18.2	2.670	
177	2247.72	0.053	0.103	11.1	0.025	0.055	10.8	2.817	
178	2248.29	0.027	0.056	11.3	0.010	0.030	10.9	2.854	
179	2248.55	0.138	0.231	15.7	0.102	0.177	15.4	3.032	pyrite nodule
180	2249.50	0.179	0.288	12.0	0.085	0.164	11.6	2.662	
181	2249.85	7.50	9.21	19.7	6.74	8.31	19.3	2.662	
55V	2249.96	4.15	5.40	19.8	3.64	4.77	19.3	2.652	
182	2250.09	7.02	8.71	19.7	6.27	7.82	19.3	2.680	
183	2250.40	1.86	2.49	17.8	1.60	2.17	17.4	2.762	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
184	2250.61	1.80	2.42	17.3	1.41	1.94	16.9	2.761	
56V	2250.68	2.08	2.78	17.8	1.75	2.37	17.4	2.739	
185	2250.92	1.23	1.74	16.8	1.04	1.48	16.3	2.691	
186	2251.20	0.450	0.692	14.7	0.335	0.534	14.4	2.761	
57V	2251.54	0.596	0.881	15.5	0.466	0.710	15.1	2.757	
187	2251.59	0.791	1.16	17.1	0.634	0.947	16.7	2.785	
188	2251.90	0.484	0.761	15.9	0.365	0.593	15.4	2.676	
189	2252.20	0.111	0.207	12.8	0.062	0.130	12.3	2.671	
190	2252.50	0.041	0.091	11.0	0.018	0.051	10.6	2.671	
58V	2252.55	0.019	0.038	9.9	0.018	0.029	9.6	2.656	
191	2252.87	0.104	0.191	12.8	0.050	0.111	12.3	2.665	
192	2253.21	0.027	0.064	11.6	0.012	0.037	11.1	2.756	
193	2255.71	0.019	0.039	10.6	0.012	0.026	10.3	2.880	
Core 3 - 2030psig NOB pressure									
194	2262.18	8.01	8.21	5.9	1.65	1.89	5.4	2.652	
195	2262.40	0.001	0.003	6.3	0.001	0.003	5.9	2.884	
196	2262.90	0.027	0.058	10.9	0.018	0.035	10.4	2.681	
197	2263.73	8.38	10.3	18.1	7.67	9.47	17.7	2.708	
59V	2263.83	4.46	5.64	17.0	3.93	5.00	16.7	2.720	
198	2264.05	0.100	0.156	6.1	0.021	0.041	5.9	2.843	



## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
199	2264.70	0.002	0.006	4.9	0.001	0.003	4.6	2.805	
60V	2264.96	0.001	0.003	5.0	0.001	0.002	4.7	2.823	
200	2265.10	0.030	0.068	9.9	0.010	0.033	9.4	2.666	
201	2265.61	0.029	0.042	5.6	0.005	0.010	5.0	2.644	
202	2271.10	0.027	0.060	10.7	0.019	0.037	10.2	2.662	
203	2274.16	0.241	0.363	9.9	0.104	0.182	9.4	2.662	
204	2274.61	0.427	0.588	10.5	0.165	0.265	9.9	2.646	fracture
205	2275.17	183	199	19.8	168	184	19.4	2.653	
61V	2275.50	20.2	25.1	20.3	15.0	19.2	19.8	2.647	
206	2275.60	223	240	21.4	208	226	21.0	2.651	
207	2275.80	342	365	20.7	315	339	20.3	2.654	
208	2276.30	0.111	0.189	11.5	0.065	0.122	11.2	2.701	
209	2276.70	11.5	13.6	17.0	10.4	12.4	16.5	2.651	
62V	2276.77	1.07	1.52	21.2	0.911	1.31	20.5	2.910	
210	2277.14	3.76	4.84	16.9	3.21	4.18	16.5	2.737	
211	2277.46	5.85	7.27	18.5	5.05	6.34	18.0	2.648	
63V	2277.55	0.743	1.10	15.4	0.531	0.826	15.0	2.645	
212	2277.80	0.058	0.115	10.0	0.030	0.067	9.7	2.685	
213	2278.09	0.071	0.137	10.4	0.037	0.082	10.0	2.653	
214	2278.50	0.009	0.015	6.5	0.002	0.005	6.2	2.658	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
215	2279.70	0.083	0.158	12.4	0.047	0.102	11.9	2.672	
216	2280.10	1.66	2.29	16.8	1.30	1.84	16.4	2.662	
217	2280.40	4.69	5.87	16.9	3.82	4.88	16.3	2.671	
64V	2280.56	7.61	9.36	18.2	6.65	8.27	17.6	2.650	
218	2280.70	4.58	5.90	18.8	4.04	5.26	18.4	2.655	
219	2281.09	0.159	0.279	11.4	0.094	0.181	11.0	2.697	
220	2282.30	0.035	0.074	13.5	0.020	0.051	13.2	2.920	
221	2282.60	0.107	0.205	14.0	0.066	0.142	13.6	2.698	
222	2285.16	0.138	0.245	12.5	0.085	0.168	12.1	2.685	
223	2285.48	7.61	13.1	9.7	5.09	9.05	9.2	2.744	
224	2285.74	142	154	16.2	134	146	15.8	2.665	
65V	2286.04	7.11	10.3	20.8	6.57	9.53	20.5	2.785	
225	2286.10	161	172	15.5	153	163	15.1	2.664	
226	2286.81	0.034	0.072	10.0	0.014	0.041	9.6	2.665	
227	2290.58	0.112	0.215	14.3	0.064	0.143	13.8	2.664	
228	2290.88	0.019	0.060	12.9	0.014	0.042	12.4	2.725	
66V	2290.96	0.031	0.048	11.0	0.025	0.040	10.5	2.726	
229	2291.20	0.002	0.004	7.1	0.002	0.003	6.8	3.165	
230	2295.74	2230	2640	21.4	2130	2540	20.9	2.654	
67V	2295.85	684	747	21.6	652	712	21.1	2.640	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
231	2296.10	2510	3040	22.9	2460	2970	22.4	2.652	
232	2296.40	3640	3770	23.8	3590	3700	23.4	2.651	
233	2296.70	1640	1940	24.3	1560	1850	23.8	2.650	
68V	2296.76	1390	1520	24.7	1290	1420	24.2	2.641	
234	2296.94	4470	5260	24.8	4340	5080	24.3	2.647	
235	2297.30	663	803	21.1	620	740	20.7	2.657	
69V	2297.38	67.2	91.0	21.6	58.9	81.0	21.1	2.646	
236	2297.50	744	902	21.9	640	790	21.2	2.646	
237	2297.81	1330	1460	22.4	1280	1400	22.0	2.653	
238	2298.09	992	1520	20.3	900	1380	19.7	2.649	
70V	2298.27	61.3	76.1	19.5	52.8	65.0	19.1	2.635	
239	2298.50	386	414	21.2	365	392	20.8	2.651	
240	2298.90	2390	2710	24.2	2300	2600	23.6	2.655	
71V	2299.16	1130	1250	22.7	1070	1180	22.2	2.646	
241	2299.40	4610	5960	21.9	4600	5790	21.3	2.649	
242	2299.70	1160	1750	21.4	1060	1600	20.8	2.653	
243*	2299.95	-	8570	23.2	-	8330	22.5	2.647	
244	2300.20	0.546	0.840	12.4	0.465	0.723	12.0	2.674	
72V	2300.32	35.0	40.3	20.0	32.9	38.1	19.7	2.656	
245	2300.53	62.5	70.4	20.3	59.7	67.4	20.0	2.677	

## POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient & Overburden)

SAMPLE NUMBER	DEPTH (m)	AMBIENT			OVERBURDEN			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY	PERMEABILITY		POROSITY		
		Kinf (md)	Kair (md)		Kinf (md)	Kair (md)			
246	2300.80	7.75	9.64	16.0	7.13	8.90	15.6	2.737	
247	2301.07	36.0	40.8	16.8	33.9	38.6	16.4	2.654	
73V	2301.14	201	217	19.5	191	207	19.2	2.657	
248	2301.38	1.47	2.10	14.5	1.23	1.78	14.1	2.711	
249	2301.54	79.8	91.2	18.3	70.4	81.1	17.9	2.653	
250	2306.10	0.036	0.083	11.3	0.034	0.064	10.9	2.645	
74V	2306.21	0.047	0.104	12.1	0.024	0.065	12.0	2.637	
251	2306.40	0.058	0.133	13.0	0.033	0.086	12.5	2.652	
252	2306.70	0.027	0.060	11.3	0.021	0.049	10.9	2.671	
253	2310.90	6.25	7.88	17.5	4.79	6.17	17.0	2.715	
75V	2311.12	0.168	0.320	14.5	0.113	0.234	14.1	2.676	
254	2311.20	0.691	1.05	15.4	0.533	0.838	14.9	2.658	
255	2311.56	0.015	0.029	7.9	0.009	0.017	7.5	2.879	

Note : \* permeability measured by steady-state



**POROSITY, PERMEABILITY AND GRAIN DENSITY  
FULL DIAMETER SAMPLES  
(Ambient & Overburden)**

SAMPLE NUMBER	DEPTH RANGE (m)	AMBIENT		OVERBURDEN		GRAIN DENSITY (g/cc)	COMMENTS
		VERTICAL	POROSITY	VERTICAL	POROSITY		
		PERMEABILITY Kair (md)	(%)	PERMEABILITY Kair (md)	(%)		

**Core 1 - 1900psig NOB pressure**

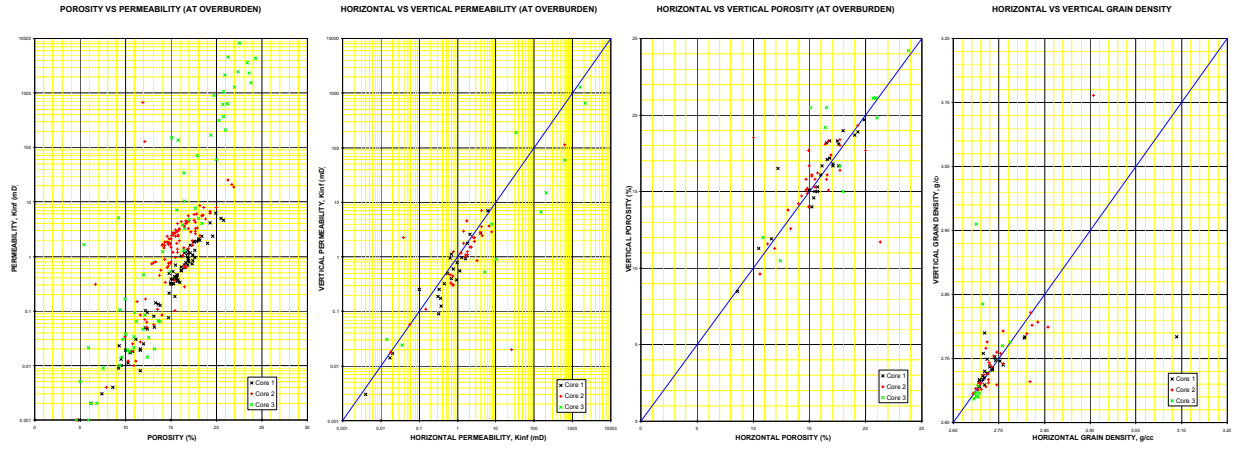
FD1	2186.38 - 2186.56	0.615	16.4	0.443	15.9	2.697	
FD2	2197.11 - 2197.27	0.073	11.9	0.037	11.6	2.704	

**Core 2 - 1960psig NOB pressure**

FD3	2213.48 - 2213.65	0.363	12.4	0.228	11.2	2.681	
FD4	2214.29 - 2214.43	1.02	14.3	0.717	13.9	2.712	
FD5	2215.92 - 2216.08	1.40	14.7	0.966	14.1	2.698	

**Core 3 - 2030psig NOB pressure**

FD6	2299.20 - 2299.35	982	20.8	946	20.6	2.646	
FD7	2309.28 - 2309.41	0.006	6.0	0.003	5.0	2.850	



***Routine Core Analysis***  
***Well Thylacine #2***  
***Offshore***  
***Otway Basin***  
***Australia***

Prepared for  
**Woodside Energy Ltd.**

January 2002

File: PRP-01042

Rock Properties  
Core Laboratories  
Perth  
Australia

8<sup>th</sup> January 2002

**Woodside Energy Ltd**

1 Adelaide Tce  
PERTH WA 6000

**Attention : Mr. J. Kelly**

Subject : Routine Core Analysis  
Well : Thylacine #2  
File : PRP-01042

Dear Sir,

Presented herein is the final report of a routine core analysis study conducted on three cores from the above well that arrived at our laboratory in mid September 2001.

We appreciate the opportunity to present this service to Woodside Energy Ltd. Please contact us should you require any further information or assistance.

Yours sincerely,

**Core Laboratories Australia Pty Ltd**

Darryl Beer  
Senior Core Analyst



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## **SUMMARY**

Core Laboratories Australia Pty Ltd (Core Lab) conducted a routine core analysis study on three cores from Thylacine #2 on behalf of Woodside Energy Ltd. (Woodside). A total of 255 horizontal and seventy-five vertical plugs were taken from the cores, the porosities and permeabilities for which were measured at ambient and overburden pressures. Horizontal plug sample porosities, at overburden, range from 4.6 to 24.3%, whilst overburden Klinkenberg permeabilities ( $K_{inf}$ ) range from 0.001 to 4610mD. Sample 243, which does not have a Klinkenberg permeability since it was measured by steady-state, has an air permeability of 8330mD. The mean arithmetic values are 14.9% and 111mD, respectively. Grain density values range from 2.643 to 3.165g/cc, with a mean value of 2.699g/cc. The high grain density values are largely attributed to the presence of siderite and occasional pyrite.

The porosity and permeability cross-plot shows good trends of permeability increasing with porosity. The majority of data points in cores 1 and 2 are fairly tightly packed, whilst those in core 3 are quite spread out. Core 2 samples generally have slightly higher permeabilities than core 1, whilst core 3 sample permeabilities are up to three orders of magnitude higher. The bulk of core 1 and 2 samples have permeabilities between 0.1 and 10mD, whilst core 3 sample permeabilities are fairly evenly spread between 0.001mD and 10,000mD.

Cross-plots were made using data generated from horizontal versus corresponding vertical plugs. Deviation from the 1:1 line in the porosity and grain density plots generally indicates lithology variation between the horizontal plugs and their vertical counterparts. When studying the permeability plot, and eliminating the lithological variations indicated by the porosity and grain density data, deviations from the 1:1 line will generally reflect structural features such as bedding and laminations – that is, genuine barriers to vertical flow in the reservoir.

On the Integrated Corelog the surface core gamma compares fairly well with the profile permeametry and plug data. The plug permeability data compares very well with the profile permeametry data.

## **INTRODUCTION**

The aluminium core barrels were delivered to Core Lab's premises on the 14<sup>th</sup> September in two steel core baskets.

A preliminary core analysis program was received from Woodside on the 18<sup>th</sup> September. Services performed and presented in the report include:

- Total surface gamma
- Profile permeametry on slabbed core
- Core photography on slabbed core and MSCT samples - white light (prints and CD-Rom)
- Permeability, porosity (at ambient and overburden) and grain density measurements on plugs and full diameter samples

The reported data for the above services are presented digitally on a diskette, whilst the digital core photographs are on the CD-Roms, all of which are included with this report.

## **INVENTORY**

Core No.	Depth Range (m)	Core Length (m)
1	2150.00 – 2199.99	49.99
2	2203.50 – 2257.60	54.10
3	2258.50 – 2314.55	56.05
Total		160.14

## **LABORATORY PROCEDURES**

### **Initial Inventory**

The core barrels, the majority of which were approximately nine metres in length, arrived in two steel core baskets. All barrels were unloaded from the basket and laid out in order. The barrel depths were recorded on an in-house inventory and checked against the supplied manifest. All barrels that were three metres in length, or longer, were then marked and cut into shorter lengths for easier handling. Once cut, end caps were placed on the open ends.

### **Surface Core Gamma**

The core was logged while still in the core barrels. A zero base-line was established, and a standard calibration tube logged prior to running the core.

During the logging of the core, one observer verified that each barrel passing the detector was in its correct sequence and orientation, whilst two people loaded, and two people offloaded the barrels. As each barrel cleared the detector it was replaced in sequence on the lay out benches ready for the core to be unloaded. The preliminary digitised gamma trace was sent by e-mail to Woodside once each core had been run.

The complete core gamma log sequence is presented in this report on the Integrated Corelog.

### **Laying Out and Marking**

The core was unloaded from the barrels by removing the top cap and sliding the core out onto the lay-out trays. After the core was laid out, the pieces were fitted together and cleaned of drilling fluids. Several core sections were crushed or jammed and required the barrels to be cut open to remove the core. Core depths, a continuous slabbing line, and orientation arrows pointing to the base were marked on the core.

### **Full Diameter Sampling**

Seven sections of core were selected in conglomerate zones for full diameter sampling to undergo porosity, permeability and grain density measurements. These sections were trimmed using a brine solution, and marked with sample number, direction arrows and depths, before going for cleaning and analysis as per the *Sample Preparation, Grain Volume and Grain Density*, and *Permeability and Porosity* sections below.

### **Core Slabbing**

The request for core slabbing required the core to be cut into one-third, two-third sections. The one-third section was then to be cut in half for the state and federal government storage agencies.

The core was slabbed, using a KCl brine solution as lubricant, to show the maximum dip of any bedding features. After slabbing, the cut faces of both sections were washed free of fines using the solution, and the depths and orientation arrows were remarked on all core sections. The two-third section was left to surface dry for profile permeametry.

### **Profile Permeametry**

Profile permeametry was conducted on the cut face of the two-third core section using the PDPK™300 profile permeameter. Measurements were made approximately every ten centimetres. A total of 1580 point measurements were made, and the preliminary results sent to Woodside as each core was completed. Profile permeametry was not conducted on sections of core that were solely shale. The final permeametry data is presented in tabular form on pages 6 to 44, and graphically on the Integrated Corelog.

### **Core Photography**

#### **i) Ultra-violet (UV) Light**

Ultra-violet light photography was not conducted, as the core exhibited no fluorescence.

#### **ii) White Light**

White light photography was performed in both large (four metres per frame) and small (25cm per frame) formats. The core was surface wet in both formats to give better detail.

A CD-Rom with preliminary large format photographs was sent to Woodside and Origin Energy (Origin) on the 22<sup>nd</sup> October. A final set of A4 prints and a CD-Rom containing the large format photographs are scheduled for despatch to Woodside. The large format white light prints and final images also contain the grain density, and ambient porosity and permeability data for the plug samples. A set of CD-Roms containing the small format images was sent to Woodside on the 4 December.



## **Core Description**

Duncan Barr of Core Lab conducted a core description on the slabbed core, the results of which are presented in a separate report.

## **Sample Preparation**

Horizontal plug sample points were marked at approximately every thirty centimetres, and vertical plug sample points were selected at approximately every third horizontal plug point.

Once identified, 1½ inch diameter core plugs were drilled using the KCl brine solution. After drilling, the core plugs were trimmed and the ends placed in labelled snap-lock plastic bags for possible future analysis. The samples were washed of fines (using the same brine solution), numbered, and their respective plug holes in the core identified with numbered markers. A total of 255 horizontal and seventy-five vertical plugs were drilled from the core.

The plugs and full diameter samples were placed in hot refluxing methanol to remove the salt residue in the pore spaces. Complete salt removal was indicated by the methanol, in which the samples were immersed, producing a negative reaction to silver nitrate.

When cleaned of salts the samples were removed from the soxhlet, air-dried to expel the excess methanol and hot oven dried at 90°C overnight. The samples were then removed from the oven, and placed in desiccators to cool to room temperature.

## **Grain Volume and Grain Density**

The weight, diameter and length of all plug samples were measured before they were processed through the Ultrapore™ porosimeter to determine grain volume. As a standard quality control measure, a calibration check plug was run after every ten samples. Grain volumes were measured on the full diameter samples using a Heise gauge helium porosimeter. Grain density data is calculated from grain volume and sample weight data.

## **Permeability and Porosity**

Permeability and pore volume measurements were made on all plug samples at ambient and overburden pressure in the CMS<sup>TM</sup>300 automated core measurement system. The overburden pressures for each core were calculated by Woodside. A standard check plug was run with every five plug samples.

Klinkenberg permeability ( $K_{inf}$ ) values are obtained directly from the CMS-300, since it operates by unsteady-state principles. Porosity data was obtained by combining pore volumes from the CMS-300 data with grain volumes from the Ultrapore porosimeter. Due to its permeability being outside the range of the CMS-300, sample 243's permeabilities were measured by steady-state method.

The full diameter samples were individually placed in a hydrostatic core holder for pore volume and permeability measurements, at both ambient and overburden pressures. Pore volumes were measured directly by a Heise gauge helium porosimeter, then combined with their grain volumes to obtain porosity data. Permeabilities were measured using a steady-state permeameter.

Preliminary data for the majority of the samples were sent to Woodside as they became available. Porosity, permeability and grain density data for the plug and full diameter samples are tabulated on pages 45 to 64. Plug data is presented graphically on the Integrated Corelog. A cross-plot of overburden porosity versus permeability for the plug samples is on page 65. Cross-plots of horizontal versus vertical plug data are presented on pages 66 to 68.