

K E R O G E N A N A L Y S I S

v.48 v

FOR

WHITE RIVER OIL SHALE PROJECT WELL X-14

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
56	2.419	7.0	7.0	76.7	9.5	9.5	8.3	8.3
57	2.452	4.6	11.6	73.7	6.9	16.4	5.7	14.0
58	2.495	1.6	13.2	71.6	5.0	21.4	3.3	17.3
59	2.515	0.2	13.4	67.0	1.2	22.6	0.7	18.0
60	2.503	1.0	14.4	67.4	1.5	24.1	1.3	19.3
61	2.466	4.6	18.1	68.7	2.6	26.7	3.1	22.4
62	2.454	4.5	22.5	67.4	1.5	28.2	3.0	25.4
63	2.477	2.8	25.3	63.6	0.0	28.2	1.4	26.8
64	2.491	1.9	27.2	62.4	0.0	28.2	0.9	27.7
65	2.497	1.4	28.6	62.8	0.0	28.2	0.7	28.4
66	2.521	0.0	28.6	60.2	0.0	28.2	0.0	28.4
67	2.572	0.0	28.6	57.3	0.0	28.2	0.0	28.4
68	2.601	0.0	28.6	57.7	0.0	28.2	0.0	28.4
69	2.589	0.0	28.6	59.8	0.0	28.2	0.0	28.4
70	2.572	0.0	28.6	61.9	0.0	28.2	0.0	28.4
71	2.550	0.0	28.6	63.6	0.0	28.2	0.0	28.4
72	2.538	0.0	28.6	64.9	0.0	28.2	0.0	28.4
73	2.523	0.0	28.6	66.2	0.5	28.8	0.3	28.7
74	2.479	2.7	31.3	72.5	5.8	34.6	4.2	32.9
75	2.405	8.0	39.3	81.3	13.8	48.4	10.9	43.8
76	2.327	13.9	53.2	88.9	21.3	69.7	17.6	61.4
77	2.319	14.5	67.6	87.7	20.1	89.8	17.3	78.7
78	2.364	11.0	78.7	79.2	11.8	101.7	11.4	90.2
79	2.450	4.7	83.4	75.9	8.8	110.5	6.8	97.0
80	2.499	1.3	84.7	73.3	6.5	117.0	3.9	100.9
81	2.524	0.0	84.7	72.9	6.2	123.2	3.1	103.9
82	2.521	0.0	84.7	73.3	6.5	129.7	3.3	107.2
83	2.513	0.4	85.1	72.9	6.2	135.8	3.3	110.5
84	2.491	1.9	87.0	73.3	6.5	142.4	4.2	114.7
85	2.450	4.7	91.7	78.8	11.5	153.8	8.1	122.8
86	2.374	10.3	102.0	79.2	11.8	165.7	11.1	133.8
87	2.297	16.2	118.2	78.4	11.1	176.8	13.6	147.5
88	2.338	13.0	131.1	75.9	8.8	185.6	10.9	158.4
89	2.428	6.3	137.4	73.3	6.5	192.1	6.4	164.8
90	2.533	0.0	137.4	72.1	5.5	197.6	2.7	167.5
91	2.532	0.0	137.4	77.5	10.3	207.8	5.1	172.6
92	2.501	1.2	138.6	81.3	13.8	221.7	7.5	180.1
93	2.474	3.1	141.7	81.3	13.8	235.5	8.5	188.6
94	2.458	4.2	145.8	81.8	14.3	249.8	9.2	197.8
95	2.462	3.9	149.7	80.9	13.4	263.2	8.7	206.5
96	2.456	4.3	154.1	81.3	13.8	277.1	9.1	215.6
97	2.434	5.9	159.9	82.6	15.1	292.1	10.5	226.0
98	2.399	8.4	168.3	88.1	20.5	312.7	14.5	240.5
99	2.383	9.6	177.9	87.3	19.7	332.4	14.6	255.1
100	2.362	11.2	189.1	89.8	22.3	354.6	16.7	271.9
101	2.321	14.3	203.4	94.4	27.1	381.7	20.7	292.6
102	2.274	18.0	221.5	92.3	24.9	406.6	21.4	314.0
103	2.291	16.6	238.1	91.5	24.0	430.6	20.3	334.3
104	2.350	12.1	250.2	86.0	18.4	449.0	15.2	349.6
105	2.407	7.8	258.0	83.5	15.9	464.9	11.9	361.5

K E R O G E N A N A L Y S I S

F O R

W H I T E R I V E R O I L S H A L E P R O J E C T W E L L X - 1 4

DEPTH	D E N S I T Y L O G			V E L O C I T Y L O G			D E N S I T Y A N D V E L O C I T Y	
	R H O - B	G A L / T O N	A C C U M . Y I E L D	R H O - B	G A L / T O N	A C C U M . Y I E L D	G A L / T O N	A C C U M . Y I E L D
106	2.423	6.7	264.7	78.8	11.5	476.4	9.1	370.5
107	2.423	6.7	271.4	80.5	13.1	489.5	9.9	380.4
108	2.393	8.8	280.2	80.1	12.7	502.1	10.8	391.2
109	2.381	9.7	290.0	80.1	12.7	514.8	11.2	402.4
110	2.393	8.8	298.8	75.0	8.0	522.8	8.4	410.8
111	2.434	5.9	304.7	72.9	6.2	529.0	6.0	416.8
112	2.436	5.7	310.4	73.7	6.9	535.9	6.3	423.1
113	2.385	9.4	319.8	78.8	11.5	547.3	10.5	433.6
114	2.348	12.2	332.0	79.2	11.8	559.2	12.0	445.6
115	2.372	10.4	342.5	73.7	6.9	566.0	8.7	454.3
116	2.440	5.4	347.9	68.3	2.2	568.3	3.8	458.1
117	2.491	1.9	349.8	69.5	3.3	571.5	2.6	460.7
118	2.495	1.6	351.4	70.4	4.0	575.6	2.8	463.5
119	2.479	2.7	354.0	70.4	4.0	579.6	3.3	466.8
120	2.456	4.3	358.3	72.1	5.5	585.0	4.9	471.7
121	2.436	5.7	364.1	75.0	8.0	593.0	6.9	478.6
122	2.425	6.6	370.6	75.0	8.0	601.1	7.3	485.8
123	2.383	9.6	380.2	75.9	8.8	609.9	9.2	495.0
124	2.307	15.4	395.6	77.1	9.9	619.8	12.7	507.7
125	2.201	24.7	419.6	78.4	11.1	630.9	17.5	525.2
126	2.199	24.2	443.7	77.1	9.9	640.8	17.0	542.3
127	2.285	17.1	460.8	75.9	8.8	649.6	13.0	555.2
128	2.405	8.0	468.8	74.2	7.3	656.9	7.6	562.9
129	2.464	3.8	472.6	72.9	6.2	663.1	5.0	567.8
130	2.474	3.1	475.6	70.8	4.4	667.4	3.7	571.5
131	2.481	2.5	478.2	69.5	3.3	670.7	2.9	574.4
132	2.483	2.4	480.6	68.7	2.6	673.3	2.5	576.9
133	2.481	2.5	483.1	68.7	2.6	675.9	2.6	579.5
134	2.483	2.4	485.5	69.1	2.9	678.8	2.7	582.1
135	2.483	2.4	487.9	69.1	2.9	681.7	2.7	584.8
136	2.474	3.1	491.0	69.1	2.9	684.6	3.0	587.8
137	2.454	4.5	495.4	71.2	4.7	689.3	4.6	592.4
138	2.438	5.6	501.0	74.6	7.7	697.0	6.6	599.0
139	2.444	5.2	506.2	73.3	6.5	703.5	5.8	604.8
140	2.459	4.2	510.3	71.2	4.7	708.2	4.4	609.2
141	2.468	3.5	513.8	71.2	4.7	712.8	4.1	613.3
142	2.464	3.8	517.6	70.4	4.0	716.9	3.9	617.2
143	2.448	4.9	522.5	70.8	4.4	721.2	4.6	621.8
144	2.413	7.4	529.9	76.7	9.5	730.8	8.5	630.3
145	2.346	12.4	542.3	80.1	12.7	743.4	12.5	642.8
146	2.266	18.7	560.9	80.1	12.7	756.1	15.7	658.5
147	2.262	19.0	579.9	73.3	6.5	762.6	12.7	671.3
148	2.268	18.5	598.4	71.6	5.0	767.7	11.8	683.0
149	2.332	13.4	611.8	70.4	4.0	771.7	8.7	691.7
150	2.356	11.6	623.4	71.2	4.7	776.4	8.2	699.9
151	2.374	10.3	633.7	71.2	4.7	781.1	7.5	707.4
152	2.313	14.9	648.7	71.2	4.7	785.8	9.8	717.2
153	2.281	17.4	666.1	71.2	4.7	790.5	11.0	728.3
154	2.307	15.4	681.5	71.6	5.0	795.5	10.2	738.5
155	2.387	9.3	690.8	72.1	5.5	801.0	7.4	745.9

KEROGEN ANALYSIS

FOR

WHITE RIVER OIL SHALE PROJECT WELL X-14

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
156	2.421	6.8	697.6	74.2	7.3	808.3	7.1	752.9
157	2.383	9.6	707.2	75.4	8.4	816.6	9.0	761.9
158	2.325	14.0	721.2	77.1	9.9	826.5	12.0	773.9
159	2.287	16.9	738.1	77.1	9.9	836.4	13.4	787.3
160	2.325	14.0	752.2	77.5	10.3	846.7	12.1	799.4
161	2.389	9.1	761.3	75.4	8.4	855.1	8.8	808.2
162	2.444	5.2	766.5	74.6	7.7	862.8	6.4	814.6
163	2.466	3.6	770.1	72.9	6.2	868.9	4.9	819.5
164	2.472	3.2	773.3	72.1	5.5	874.4	4.3	823.8
165	2.474	3.1	776.4	70.4	4.0	878.4	3.5	827.4
166	2.481	2.5	778.9	70.0	3.7	882.1	3.1	830.5
167	2.483	2.4	781.3	70.0	3.7	885.7	3.0	833.5
168	2.479	2.7	784.0	69.5	3.3	889.0	3.0	836.5
169	2.464	3.8	787.8	68.7	2.6	891.6	3.2	839.7
170	2.454	4.5	792.2	71.2	4.7	896.3	4.6	844.2
171	2.436	5.7	797.9	75.9	8.8	905.1	7.3	851.5
172	2.415	7.3	805.2	80.5	13.1	918.1	10.2	861.7
173	2.391	9.0	814.2	76.3	9.2	927.3	9.1	870.8
174	2.417	7.1	821.3	70.8	4.4	931.7	5.7	876.5
175	2.462	3.9	825.2	69.1	2.9	934.6	3.4	879.9
176	2.499	1.3	826.5	70.0	3.7	938.3	2.5	882.4
177	2.501	1.2	827.7	71.2	4.7	943.0	2.9	885.3
178	2.489	2.0	829.7	71.2	4.7	947.6	3.3	888.7
179	2.481	2.5	832.2	71.2	4.7	952.3	3.6	892.3
180	2.481	2.5	834.8	71.6	5.0	957.4	3.8	896.1
181	2.487	2.1	836.9	71.6	5.0	962.4	3.6	899.6
182	2.493	1.7	838.6	71.2	4.7	967.1	3.2	902.8
183	2.493	1.7	840.3	71.6	5.0	972.1	3.4	906.2
184	2.493	1.7	842.0	71.6	5.0	977.2	3.4	909.6
185	2.493	1.7	843.8	71.6	5.0	982.2	3.4	913.0
186	2.483	2.4	846.1	71.2	4.7	986.9	3.5	916.5
187	2.474	3.1	849.2	71.2	4.7	991.6	3.9	920.4
188	2.466	3.6	852.9	73.7	6.9	998.5	5.2	925.7
189	2.458	4.2	857.0	77.1	9.9	1008.4	7.0	932.7
190	2.434	5.9	862.9	76.3	9.2	1017.5	7.5	940.2
191	2.425	6.6	869.5	73.7	6.9	1024.4	6.7	946.9
192	2.448	4.9	874.3	71.6	5.0	1029.4	5.0	951.9
193	2.485	2.3	876.6	69.1	2.9	1032.4	2.6	954.5
194	2.505	0.9	877.5	69.5	3.3	1035.6	2.1	956.5
195	2.505	0.9	878.4	69.5	3.3	1038.9	2.1	958.6
196	2.509	0.6	879.0	69.5	3.3	1042.1	1.9	960.6
197	2.507	0.8	879.8	70.0	3.7	1045.8	2.2	962.8
198	2.507	0.8	880.6	70.0	3.7	1049.5	2.2	965.0
199	2.505	0.9	881.5	70.4	4.0	1053.5	2.5	967.5
200	2.507	0.8	882.3	72.1	5.5	1058.9	3.1	970.6
201	2.507	0.8	883.1	72.1	5.5	1064.4	3.1	973.7
202	2.507	0.8	883.8	71.6	5.0	1069.4	2.9	976.6
203	2.505	0.9	884.7	72.1	5.5	1074.9	3.2	979.8
204	2.505	0.9	885.6	69.1	2.9	1077.8	1.9	981.7
205	2.505	0.9	886.6	69.1	2.9	1080.7	1.9	983.6

K E R O G E N A N A L Y S I S

F O R

W H I T E R I V E R O I L S H A L E P R O J E C T W E L L X - 1 4

DEPTH	D E N S I T Y L O G			V E L O C I T Y L O G			D E N S I T Y A N D V E L O C I T Y	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
206	2.513	0.4	886.9	69.5	3.3	1084.0	1.8	985.4
207	2.513	0.4	887.3	70.4	4.0	1088.0	2.2	987.6
208	2.505	0.9	888.2	71.6	5.0	1093.0	3.0	990.6
209	2.493	1.7	889.9	72.1	5.5	1098.5	3.6	994.2
210	2.475	2.9	892.9	74.6	7.7	1106.1	5.3	999.5
211	2.459	4.7	897.6	78.8	11.5	1117.6	8.1	1007.6
212	2.409	7.7	905.3	80.9	13.4	1131.1	10.6	1018.2
213	2.407	7.8	913.1	77.5	10.3	1141.3	9.1	1027.2
214	2.428	6.3	919.4	73.7	6.9	1148.2	6.6	1033.8
215	2.464	3.8	923.2	72.1	5.5	1153.7	4.6	1038.4
216	2.470	3.4	926.5	72.9	6.2	1159.8	4.8	1043.2
217	2.460	4.0	930.6	72.5	5.8	1165.6	4.9	1048.1
218	2.440	5.4	936.0	72.9	6.2	1171.8	5.8	1053.9
219	2.399	8.4	944.4	79.2	11.8	1183.6	10.1	1064.0
220	2.385	9.4	953.9	78.4	11.1	1194.8	10.3	1074.3
221	2.409	7.7	961.6	73.7	6.9	1201.6	7.3	1081.6
222	2.468	3.5	965.0	69.1	2.9	1204.5	3.2	1084.8
223	2.507	0.8	965.8	69.1	2.9	1207.4	1.8	1086.6
224	2.519	0.0	965.8	69.5	3.3	1210.7	1.6	1088.3
225	2.513	0.4	966.2	70.0	3.7	1214.4	2.0	1090.3
226	2.503	1.0	967.2	70.8	4.4	1218.7	2.7	1093.0
227	2.491	1.9	969.1	70.4	4.0	1222.7	2.9	1095.9
228	2.477	2.8	971.9	70.4	4.0	1226.7	3.4	1099.3
229	2.479	2.7	974.6	70.4	4.0	1230.7	3.3	1102.6
230	2.489	2.0	976.6	70.8	4.4	1235.1	3.2	1105.8
231	2.501	1.2	977.7	70.4	4.0	1239.1	2.6	1108.4
232	2.497	1.4	979.2	70.8	4.4	1243.5	2.9	1111.3
233	2.491	1.9	981.0	70.4	4.0	1247.5	2.9	1114.2
234	2.483	2.4	983.4	70.4	4.0	1251.5	3.2	1117.4
235	2.470	3.4	986.8	70.0	3.7	1255.2	3.5	1121.0
236	2.452	4.6	991.4	68.7	2.6	1257.7	3.6	1124.5
237	2.432	6.0	997.4	69.5	3.3	1261.0	4.6	1129.2
238	2.411	7.6	1004.9	73.7	6.9	1267.8	7.2	1136.4
239	2.393	8.8	1013.8	78.4	11.1	1278.9	10.0	1146.4
240	2.425	6.6	1020.3	75.0	8.0	1287.0	7.3	1153.6
241	2.466	3.6	1024.0	69.1	2.9	1289.9	3.3	1156.9
242	2.503	1.0	1025.0	69.5	3.3	1293.1	2.1	1159.1
243	2.495	1.6	1026.6	70.0	3.7	1296.8	2.6	1161.7
244	2.479	2.7	1029.3	70.0	3.7	1300.5	3.2	1164.9
245	2.468	3.5	1032.8	70.4	4.0	1304.5	3.8	1168.6
246	2.452	4.6	1037.3	74.6	7.7	1312.1	6.1	1174.7
247	2.430	6.1	1043.5	78.4	11.1	1323.2	8.6	1183.4
248	2.421	6.8	1050.3	82.2	14.7	1337.9	10.8	1194.1
249	2.426	6.4	1056.7	81.3	13.8	1351.8	10.1	1204.2
250	2.450	4.7	1061.5	77.1	9.9	1361.7	7.3	1211.6
251	2.456	4.3	1065.8	73.3	6.5	1368.2	5.4	1217.0
252	2.436	5.7	1071.5	73.3	6.5	1374.7	6.1	1223.1
253	2.389	9.1	1080.7	83.5	15.9	1390.6	12.5	1235.6
254	2.348	12.2	1092.9	88.1	20.5	1411.1	16.4	1252.0
255	2.346	12.4	1105.3	84.3	16.7	1427.9	14.5	1266.5

K E R O G E N A N A L Y S I S

F O R

W H I T E R I V E R O I L S H A L E P R O J E C T W E L L X - 1 4

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
256	2.389	9.1	1114.4	74.2	7.3	1435.2	8.2	1274.8
257	2.440	9.4	1119.8	70.8	4.4	1439.5	4.9	1279.7
258	2.468	3.5	1123.3	68.7	2.6	1442.1	3.0	1282.7
259	2.477	2.8	1126.1	68.7	2.6	1444.7	2.7	1285.4
260	2.468	3.5	1129.6	69.5	3.3	1447.9	3.4	1288.8
261	2.440	9.4	1135.0	74.2	7.3	1455.2	6.4	1295.1
262	2.403	8.1	1143.2	76.7	9.5	1464.8	8.8	1304.0
263	2.387	9.3	1152.5	77.5	10.3	1475.0	9.8	1313.7
264	2.395	8.7	1161.2	77.5	10.3	1485.3	9.5	1323.2
265	2.419	7.0	1168.1	77.5	10.3	1495.6	8.6	1331.9
266	2.425	6.6	1174.7	75.0	8.0	1503.6	7.3	1339.1
267	2.423	6.7	1181.4	78.0	10.7	1514.3	8.7	1347.9
268	2.401	8.3	1189.7	83.5	15.9	1530.3	12.1	1360.0
269	2.374	10.3	1200.0	83.9	16.3	1546.6	13.3	1373.3
270	2.374	10.3	1210.3	76.3	9.2	1555.8	9.7	1383.0
271	2.397	6.6	1218.8	69.5	3.3	1559.1	5.9	1388.9
272	2.428	6.3	1225.1	69.1	2.9	1562.0	4.6	1393.5
273	2.434	5.9	1231.0	70.0	3.7	1565.6	4.8	1398.3
274	2.432	6.0	1237.0	70.0	3.7	1569.3	4.8	1403.1
275	2.425	6.6	1243.5	71.2	4.7	1574.0	5.6	1408.8
276	2.415	7.3	1250.8	75.9	8.8	1582.8	8.0	1416.8
277	2.393	8.8	1259.7	81.3	13.8	1596.6	11.3	1428.1
278	2.383	9.6	1269.2	83.5	15.9	1612.6	12.8	1440.9
279	2.391	9.0	1278.2	78.8	11.5	1624.1	10.2	1451.1
280	2.417	7.1	1285.3	72.9	6.2	1630.2	6.6	1457.8
281	2.428	6.3	1291.6	72.9	6.2	1636.4	6.2	1464.0
282	2.425	6.6	1298.2	71.6	5.0	1641.4	5.8	1469.8
283	2.426	6.4	1304.6	71.2	4.7	1646.1	5.6	1475.3
284	2.434	5.9	1310.5	69.1	2.9	1649.0	4.4	1479.7
285	2.432	6.0	1316.5	72.1	5.5	1654.5	5.7	1485.5
286	2.421	6.8	1323.3	73.7	6.9	1661.4	6.9	1492.3
287	2.407	7.8	1331.1	73.7	6.9	1668.2	7.4	1499.7
288	2.397	8.6	1339.7	73.7	6.9	1675.1	7.7	1507.4
289	2.395	8.7	1348.4	73.7	6.9	1681.9	7.8	1515.2
290	2.395	8.7	1357.1	76.3	9.2	1691.1	8.9	1524.1
291	2.399	8.4	1365.5	81.3	13.8	1704.9	11.1	1535.2
292	2.393	8.8	1374.4	84.7	17.1	1722.1	13.0	1548.2
293	2.389	9.1	1383.5	84.7	17.1	1749.2	13.1	1561.3
294	2.387	9.3	1392.8	81.3	13.8	1753.0	11.6	1572.9
295	2.389	9.1	1401.9	79.7	12.3	1765.3	10.7	1583.6
296	2.387	9.3	1411.2	77.5	10.3	1775.6	9.8	1593.4
297	2.381	9.7	1420.9	78.4	11.1	1786.7	10.4	1603.8
298	2.379	9.9	1430.8	81.3	13.8	1800.5	11.8	1615.6
299	2.366	10.9	1441.7	85.6	18.0	1818.5	14.4	1630.1
300	2.346	12.4	1454.1	87.3	19.7	1838.2	16.0	1646.1
301	2.317	14.6	1468.7	86.8	19.2	1857.4	16.9	1663.0
302	2.293	16.5	1485.2	89.4	21.8	1879.3	19.2	1682.2
303	2.270	18.3	1503.5	94.0	26.7	1905.9	22.5	1704.7
304	2.254	19.6	1523.1	97.0	29.9	1935.8	24.8	1729.5
305	2.262	19.0	1542.1	96.5	29.4	1965.2	24.2	1753.6

K E R O G E N A N A L Y S I S

F U R

W H I T E R I V E R O I L S H A L E P R O J E C T W E L L X - 1 4

DEPTH	D E N S I T Y L O G			V E L O C I T Y L O G			D E N S I T Y A N D V E L O C I T Y	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
306	2.276	17.9	1560.0	97.4	30.3	1995.0	24.1	1777.7
307	2.293	16.5	1576.4	97.0	29.9	2025.5	23.2	1800.9
308	2.299	16.0	1592.4	92.7	25.3	2050.7	20.6	1821.6
309	2.317	14.6	1607.1	89.8	22.3	2073.0	18.4	1840.0
310	2.344	12.5	1619.6	82.6	15.1	2088.1	13.8	1853.8
311	2.379	9.9	1629.5	78.0	10.7	2098.8	10.3	1864.1
312	2.407	7.8	1637.3	76.3	9.2	2108.0	8.5	1872.6
313	2.415	7.3	1644.6	79.2	11.8	2119.8	9.6	1882.2
314	2.409	7.7	1652.3	80.5	13.1	2132.9	10.4	1892.6
315	2.413	7.4	1659.7	80.1	12.7	2145.6	10.1	1902.6
316	2.423	6.7	1666.4	75.9	8.8	2154.4	7.8	1910.4
317	2.430	6.1	1672.5	73.7	6.9	2161.3	6.5	1916.9
318	2.409	7.7	1680.2	83.0	15.5	2176.7	11.6	1928.5
319	2.366	10.9	1691.1	89.4	21.8	2198.6	16.4	1944.8
320	2.350	12.1	1703.2	88.5	20.9	2219.5	16.5	1961.3
321	2.374	10.3	1713.5	82.2	14.7	2234.2	12.5	1973.8
322	2.419	7.0	1720.5	78.8	11.5	2245.6	9.2	1983.0
323	2.446	5.0	1725.5	74.2	7.3	2252.9	6.2	1989.2
324	2.450	4.7	1730.2	74.2	7.3	2260.2	6.0	1995.2
325	2.450	4.7	1735.0	75.9	8.8	2269.1	6.8	2002.0
326	2.442	5.3	1740.3	78.8	11.5	2280.5	8.4	2010.4
327	2.438	5.6	1745.8	79.7	12.3	2292.9	8.9	2019.3
328	2.442	5.3	1751.1	77.1	9.9	2302.8	7.6	2026.9
329	2.444	5.2	1756.3	75.4	8.4	2311.1	6.8	2033.7
330	2.436	5.7	1762.0	78.8	11.5	2322.6	8.6	2042.3
331	2.423	6.7	1768.7	79.2	11.8	2334.5	9.3	2051.6
332	2.413	7.4	1776.1	77.5	10.3	2344.7	8.8	2060.4
333	2.413	7.4	1783.5	75.4	8.4	2353.1	7.9	2068.3
334	2.399	8.4	1791.9	80.9	13.4	2366.5	10.9	2079.2
335	2.381	9.7	1801.7	83.9	16.3	2382.9	13.0	2092.3
336	2.376	10.2	1811.8	80.9	13.4	2396.3	11.8	2104.1
337	2.393	8.8	1820.7	77.5	10.3	2406.6	9.6	2113.6
338	2.417	7.1	1827.8	78.4	11.1	2417.7	9.1	2122.7
339	2.425	6.6	1834.4	78.4	11.1	2428.8	8.8	2131.6
340	2.425	6.6	1840.9	77.5	10.3	2439.1	8.4	2140.0
341	2.423	6.7	1847.6	75.0	8.0	2447.1	7.4	2147.3
342	2.411	7.6	1855.2	78.0	10.7	2457.8	9.1	2156.5
343	2.376	10.2	1865.3	85.1	17.5	2475.3	13.8	2170.3
344	2.354	11.8	1877.1	85.1	17.5	2492.8	14.6	2185.0
345	2.362	11.2	1888.3	79.2	11.8	2504.7	11.5	2196.5
346	2.399	8.4	1896.7	75.0	8.0	2512.7	8.2	2204.7
347	2.426	6.4	1903.1	72.1	5.5	2518.2	5.9	2210.6
348	2.434	5.9	1909.0	71.2	4.7	2522.9	5.3	2215.9
349	2.428	6.3	1915.3	77.5	10.3	2533.1	8.3	2224.2
350	2.395	8.7	1924.0	87.7	20.1	2553.2	14.4	2238.6
351	2.342	12.7	1936.6	88.9	21.3	2574.6	17.0	2255.6
352	2.325	14.0	1950.7	79.2	11.8	2586.4	12.9	2268.5
353	2.344	12.5	1963.2	75.4	8.4	2594.8	10.4	2279.0
354	2.377	10.0	1973.2	80.9	13.4	2608.2	11.7	2290.7
355	2.374	10.3	1983.5	83.9	16.3	2624.6	13.3	2304.0

K E R U G E N A N A L Y S I S

F O R

W H I T E R I V E R O I L S H A L E P R O J E C T W E L L X - 1 4

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
356	2.340	12.8	1996.3	91.1	23.6	2648.2	18.2	2322.2
357	2.293	16.5	2012.8	97.8	30.8	2679.0	23.5	2345.8
358	2.262	19.0	2031.8	93.6	26.2	2705.2	22.6	2368.5
359	2.279	17.6	2049.3	83.9	16.3	2721.5	16.9	2385.4
360	2.348	12.2	2061.5	75.4	8.4	2729.9	10.3	2395.7
361	2.423	6.7	2068.2	72.9	6.2	2736.1	6.4	2402.1
362	2.464	3.8	2072.0	73.3	6.5	2742.6	5.1	2407.3
363	2.472	3.2	2075.2	73.3	6.5	2749.1	4.9	2412.1
364	2.454	4.5	2079.7	72.5	5.8	2754.9	5.1	2417.3
365	2.423	6.7	2086.4	71.6	5.0	2759.9	5.9	2423.1
366	2.393	8.8	2095.2	75.4	8.4	2768.3	8.6	2431.7
367	2.383	9.6	2104.8	76.7	9.5	2777.8	9.6	2441.3
368	2.385	9.4	2114.2	75.9	8.8	2786.7	9.1	2450.4
369	2.389	9.1	2123.4	73.3	6.5	2793.2	7.8	2458.3
370	2.381	9.7	2133.1	73.7	6.9	2800.0	8.3	2466.5
371	2.364	11.0	2144.1	80.1	12.7	2812.7	11.9	2478.4
372	2.332	13.4	2157.5	90.2	22.7	2835.4	18.0	2496.4
373	2.293	16.5	2174.0	94.4	27.1	2862.5	21.8	2518.2
374	2.327	13.9	2187.9	90.6	23.1	2885.6	18.5	2536.7
375	2.376	10.2	2198.0	80.9	13.4	2899.0	11.8	2548.5
376	2.442	5.3	2203.3	78.4	11.1	2910.1	8.2	2556.7
377	2.450	4.7	2208.1	75.4	8.4	2918.5	6.6	2563.3
378	2.438	5.6	2213.7	72.9	6.2	2924.6	5.9	2569.1
379	2.401	8.3	2221.9	76.7	9.5	2934.2	8.9	2578.0
380	2.354	11.8	2233.7	83.5	15.9	2950.1	13.9	2591.9
381	2.334	13.3	2247.0	82.2	14.7	2964.8	14.0	2605.9
382	2.348	12.2	2259.2	75.0	8.0	2972.8	10.1	2616.0
383	2.376	10.2	2269.4	71.6	5.0	2977.9	7.6	2623.6
384	2.395	8.7	2278.1	72.1	5.5	2983.3	7.1	2630.7
385	2.393	8.8	2286.9	74.2	7.3	2990.6	8.1	2638.7
386	2.377	10.0	2296.9	76.3	9.2	2999.8	9.6	2648.3
387	2.362	11.2	2308.1	75.9	8.8	3008.6	10.0	2658.3
388	2.370	10.6	2318.7	72.1	5.5	3014.1	8.0	2666.4
389	2.387	9.3	2328.0	71.6	5.0	3019.1	7.2	2673.5
390	2.407	7.8	2335.8	70.8	4.4	3023.5	6.1	2679.6
391	2.413	7.4	2343.2	70.4	4.0	3027.5	5.7	2685.3
392	2.421	6.8	2350.1	70.0	3.7	3031.2	5.3	2690.6
393	2.428	6.3	2356.4	69.1	2.9	3034.1	4.6	2695.2
394	2.421	6.8	2363.2	70.0	3.7	3037.7	5.3	2700.5
395	2.405	8.0	2371.2	72.9	6.2	3043.9	7.1	2707.5
396	2.385	9.4	2380.6	77.5	10.3	3054.2	9.9	2717.4
397	2.377	10.0	2390.6	77.1	9.9	3064.1	10.0	2727.3
398	2.393	8.8	2399.5	73.7	6.9	3071.0	7.9	2735.2
399	2.426	5.4	2405.9	71.6	5.0	3076.0	5.7	2740.9
400	2.450	4.7	2410.6	70.4	4.0	3080.0	4.4	2745.3
401	2.456	4.3	2414.9	69.5	3.3	3083.3	3.8	2749.1
402	2.450	4.7	2419.7	70.0	3.7	3086.9	4.2	2753.3
403	2.452	4.5	2424.3	69.5	3.3	3090.2	3.9	2757.2
404	2.448	4.9	2429.2	69.5	3.3	3093.4	4.1	2761.3
405	2.444	5.2	2434.3	69.5	3.3	3096.7	4.2	2765.5

K E R D G E N A N A L Y S I S

F O R

W H I T E R I V E R O I L S H A L E P R O J E C T W E L L X - 1 4

D E P T H	D E N S I T Y L O G			V E L O C I T Y L O G			D E N S I T Y A N D V E L O C I T Y	
	R H O - B	G A L / T O N	A C C U M . Y I E L D	R H O - B	G A L / T O N	A C C U M . Y I E L D	G A L / T O N	A C C U M . Y I E L D
406	2.436	5.7	2440.0	70.0	3.7	3100.3	4.7	2770.2
407	2.425	6.6	2446.6	70.0	3.7	3104.0	5.1	2775.3
408	2.417	7.1	2453.7	70.0	3.7	3107.7	5.4	2780.7
409	2.421	6.8	2460.6	71.2	4.7	3112.4	5.8	2786.4
410	2.432	6.0	2466.5	73.7	6.9	3119.2	6.4	2792.9
411	2.444	5.2	2471.7	73.7	6.9	3126.1	6.0	2798.9
412	2.450	4.7	2476.4	71.6	5.0	3131.1	4.9	2803.8
413	2.448	4.9	2481.3	75.0	8.0	3139.2	6.4	2810.2
414	2.430	5.1	2487.5	77.5	10.3	3149.4	8.2	2818.4
415	2.415	7.3	2494.7	79.7	12.3	3161.7	9.8	2828.2
416	2.415	7.3	2502.0	74.2	7.3	3169.0	7.3	2835.5
417	2.434	5.9	2507.8	70.4	4.0	3173.1	4.9	2840.4
418	2.458	4.2	2512.0	70.4	4.0	3177.1	4.1	2844.5
419	2.470	3.4	2515.4	70.8	4.4	3181.4	3.9	2848.4
420	2.460	4.0	2519.4	74.6	7.7	3189.1	5.9	2854.2
421	2.436	5.7	2525.1	78.0	10.7	3199.8	8.2	2862.5
422	2.411	7.6	2532.7	80.1	12.7	3212.5	10.1	2872.6
423	2.411	7.6	2540.1	77.5	10.3	3222.8	8.9	2881.5
424	2.425	6.6	2546.8	73.7	6.9	3229.6	6.7	2888.2
425	2.444	5.2	2552.0	71.2	4.7	3234.3	4.9	2893.1
426	2.434	5.9	2557.8	72.5	5.8	3240.1	5.8	2899.0
427	2.407	7.8	2565.7	76.3	9.2	3249.3	8.5	2907.5
428	2.372	10.4	2576.1	80.9	13.4	3262.8	11.9	2919.4
429	2.342	12.7	2588.8	77.5	10.3	3273.0	11.5	2930.9
430	2.328	13.7	2602.5	74.2	7.3	3280.3	10.5	2941.4
431	2.348	12.2	2614.7	72.5	5.8	3286.2	9.0	2950.4
432	2.389	9.1	2623.9	71.6	5.0	3291.2	7.1	2957.5
433	2.426	6.4	2630.3	73.3	6.5	3297.7	6.5	2964.0
434	2.425	6.6	2636.8	75.0	8.0	3305.7	7.3	2971.3
435	2.401	8.3	2645.1	78.8	11.5	3317.2	9.9	2981.1
436	2.385	9.4	2654.5	82.6	15.1	3332.3	12.2	2993.4
437	2.381	9.7	2664.3	83.5	15.9	3348.2	12.8	3006.2
438	2.383	9.6	2673.8	77.5	10.3	3358.5	9.9	3016.1
439	2.401	8.3	2682.1	72.9	6.2	3364.6	7.2	3023.4
440	2.430	6.1	2688.2	70.8	4.4	3369.0	5.2	3028.6
441	2.458	4.2	2692.4	72.9	6.2	3375.1	5.2	3033.8
442	2.464	3.8	2696.2	75.0	8.0	3383.2	5.9	3039.7
443	2.460	4.0	2700.2	74.6	7.7	3390.8	5.9	3045.5
444	2.456	4.3	2704.6	74.6	7.7	3398.5	6.0	3051.5
445	2.458	4.2	2708.7	74.2	7.3	3405.8	5.7	3057.2
446	2.466	3.6	2712.4	72.9	6.2	3411.9	4.9	3062.1
447	2.470	3.4	2715.7	72.5	5.8	3417.8	4.6	3066.7
448	2.468	3.5	2719.2	72.1	5.5	3423.2	4.5	3071.2
449	2.458	4.2	2723.4	72.5	5.8	3429.0	5.0	3076.2
450	2.454	4.5	2727.8	73.7	6.9	3435.9	5.7	3081.9
451	2.448	4.9	2732.7	78.4	11.1	3447.0	8.0	3089.8
452	2.432	6.0	2738.7	79.2	11.8	3458.8	8.9	3098.8
453	2.409	7.7	2746.4	78.0	10.7	3469.6	9.2	3108.0
454	2.395	8.7	2755.1	77.1	9.9	3479.5	9.3	3117.3
455	2.393	8.8	2764.0	75.4	8.4	3487.9	8.6	3125.9

K E R O G E N A N A L Y S I S

F O R

W H I T E R I V E R O I L S H A L E P R O J E C T W E L L X - 1 4

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
456	2.393	8.8	2772.8	75.4	8.4	3496.2	8.6	3134.5
457	2.368	10.7	2783.6	84.3	16.7	3513.0	13.7	3148.2
458	2.311	15.1	2798.7	91.9	24.4	3537.4	19.8	3168.0
459	2.279	17.6	2816.2	91.1	23.6	3561.0	20.6	3188.6
460	2.307	15.4	2831.6	83.9	16.3	3577.3	15.9	3204.4
461	2.364	11.0	2842.6	77.5	10.3	3587.6	10.7	3215.1
462	2.395	8.7	2851.3	78.0	10.7	3598.3	9.7	3224.8
463	2.381	9.7	2861.1	79.7	12.3	3610.6	11.0	3235.8
464	2.358	11.5	2872.5	80.5	13.1	3623.7	12.3	3248.1
465	2.328	13.7	2886.3	86.8	19.2	3642.9	16.5	3264.6
466	2.289	16.8	2903.1	92.3	24.9	3667.8	20.8	3285.4
467	2.262	19.0	2922.0	90.6	23.1	3690.8	21.0	3306.4
468	2.278	17.7	2939.7	83.5	15.9	3706.8	16.8	3323.2
469	2.301	15.9	2955.6	82.2	14.7	3721.5	15.3	3338.5
470	2.293	16.5	2972.1	94.4	27.1	3748.6	21.8	3360.3
471	2.315	14.8	2986.9	94.0	26.7	3775.2	20.7	3381.0
472	2.372	10.4	2997.3	78.8	11.5	3786.7	11.0	3392.0
473	2.448	4.9	3002.2	69.5	3.3	3789.9	4.1	3396.0
474	2.458	4.2	3006.4	68.3	2.2	3792.2	3.2	3399.3
475	2.444	5.2	3011.5	71.6	5.0	3797.2	5.1	3404.4
476	2.438	5.6	3017.1	72.1	5.5	3802.7	5.5	3409.9
477	2.438	5.6	3022.7	72.5	5.8	3808.5	5.7	3415.6
478	2.446	5.0	3027.7	70.0	3.7	3812.2	4.3	3419.9
479	2.466	3.6	3031.3	66.2	0.5	3812.7	2.1	3422.0
480	2.487	2.1	3033.4	65.3	0.0	3812.7	1.1	3423.1
481	2.499	1.3	3034.7	69.5	3.3	3816.0	2.3	3425.3
482	2.497	1.4	3036.2	72.9	6.2	3822.1	3.8	3429.1
483	2.483	2.4	3038.6	73.3	6.5	3828.6	4.5	3433.6
484	2.464	3.8	3042.4	74.6	7.7	3836.3	5.7	3439.3
485	2.425	6.6	3048.9	80.1	12.7	3849.0	9.6	3448.9
486	2.372	10.4	3059.4	85.6	18.0	3867.0	14.2	3463.2
487	2.305	15.5	3074.9	97.0	29.9	3896.9	22.7	3485.9
488	2.256	19.5	3094.4	100.8	34.1	3931.0	26.8	3512.7
489	2.240	20.7	3115.1	102.9	36.5	3967.6	28.6	3541.3
490	2.276	17.9	3133.0	86.4	18.8	3986.4	18.3	3559.6
491	2.321	14.3	3147.3	82.2	14.7	4001.1	14.5	3574.2
492	2.342	12.7	3160.0	80.1	12.7	4013.8	12.7	3586.8
493	2.309	15.2	3175.2	83.0	15.5	4029.2	15.3	3602.2
494	2.256	19.5	3194.7	86.4	18.8	4048.0	19.1	3621.3
495	2.205	23.7	3218.3	94.9	27.6	4075.6	25.6	3646.9
496	2.185	25.3	3243.6	97.4	30.3	4106.0	27.8	3674.8
497	2.183	25.5	3269.1	101.6	35.0	4141.0	30.3	3705.0
498	2.181	25.6	3294.8	106.2	40.4	4181.4	33.0	3738.1
499	2.166	27.0	3321.7	112.6	48.1	4229.5	37.5	3775.6
500	2.172	26.5	3348.2	111.3	46.5	4276.0	36.5	3812.1
501	2.221	22.3	3370.6	100.3	33.6	4309.6	28.0	3840.1
502	2.297	16.2	3386.7	89.8	22.3	4331.8	19.2	3859.3
503	2.352	11.9	3398.7	81.3	13.8	4345.7	12.9	3872.1
504	2.376	10.2	3408.8	77.5	10.3	4355.9	10.2	3882.4
505	2.383	9.6	3418.4	81.3	13.8	4369.8	11.7	3894.1

K E R O G E N A N A L Y S I S

FUR

WHITE RIVER OIL SHALE PROJECT WELL X-14

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
506	2.379	9.9	3428.3	82.6	15.1	4384.8	12.5	3906.5
507	2.385	9.4	3437.7	81.8	14.3	4399.1	11.9	3918.4
508	2.335	9.4	3447.1	77.1	9.9	4409.0	9.7	3928.1
509	2.379	9.9	3457.0	74.6	7.7	4416.7	8.8	3936.8
510	2.362	11.2	3468.2	74.2	7.3	4424.0	9.2	3946.1
511	2.358	11.5	3479.6	73.3	6.5	4430.5	9.0	3955.1
512	2.356	11.6	3491.3	72.1	5.5	4436.0	8.5	3963.6
513	2.334	13.3	3504.5	71.2	4.7	4440.6	9.0	3972.6
514	2.281	17.4	3522.0	73.7	6.9	4447.5	12.1	3984.7
515	2.215	22.8	3544.8	88.5	20.9	4468.4	21.9	4006.6
516	2.142	29.0	3573.8	98.6	31.7	4500.1	30.4	4037.0
517	2.142	29.0	3602.9	103.7	37.5	4537.6	33.3	4070.2
518	2.176	26.2	3629.0	98.2	31.2	4568.8	28.7	4098.9
519	2.230	21.5	3650.6	93.2	25.8	4594.6	23.7	4122.6
520	2.199	24.2	3674.7	98.6	31.7	4626.3	27.9	4150.5
521	2.142	29.0	3703.8	101.2	34.6	4660.9	31.8	4182.3
522	2.076	35.1	3738.8	104.1	37.9	4698.8	36.5	4218.8
523	2.054	37.1	3775.9	104.6	38.5	4737.3	37.8	4256.6
524	2.017	40.6	3816.5	114.3	50.2	4787.5	45.4	4302.0
525	1.962	46.1	3862.6	125.7	65.0	4852.5	55.6	4357.5
526	1.891	53.4	3916.0	135.8	79.1	4931.6	66.3	4423.8
527	1.837	59.5	3975.5	140.4	85.8	5017.4	72.6	4496.4
528	1.866	56.2	4031.7	137.1	81.0	5098.3	68.6	4565.0
529	1.935	48.9	4080.6	126.1	65.6	5163.9	57.2	4622.2
530	2.013	41.0	4121.6	118.5	55.5	5219.4	48.3	4670.5
531	2.046	37.8	4159.4	110.9	46.0	5265.5	41.9	4712.4
532	2.091	33.6	4193.0	99.5	32.7	5298.1	33.1	4745.6
533	2.158	26.8	4219.9	85.1	17.5	5315.6	22.2	4767.7
534	2.221	22.3	4242.2	86.4	18.8	5334.4	20.6	4788.3
535	2.217	22.7	4264.9	97.4	30.3	5364.8	26.5	4814.8
536	2.170	26.7	4291.5	102.9	36.5	5401.3	31.6	4846.4
537	2.160	27.5	4319.0	98.6	31.7	5433.0	29.6	4876.0
538	2.199	24.2	4343.2	88.9	21.3	5454.3	22.7	4898.7
539	2.243	20.1	4363.3	83.9	16.3	5470.6	18.2	4916.9
540	2.240	20.7	4384.0	98.2	31.2	5501.9	26.0	4942.9
541	2.162	27.3	4411.3	113.4	49.1	5551.0	38.2	4981.1
542	2.093	33.4	4444.8	124.0	62.7	5613.7	48.1	5029.2
543	2.058	36.7	4481.5	121.4	59.3	5673.0	48.0	5077.2
544	2.082	34.5	4516.0	113.0	48.6	5721.6	41.6	5118.8
545	2.107	32.2	4548.2	113.0	48.6	5770.2	40.4	5159.2
546	2.134	29.7	4577.9	108.8	43.5	5813.7	36.6	5195.8
547	2.174	26.3	4604.3	98.6	31.7	5845.3	29.0	5224.8
548	2.236	21.0	4625.3	87.7	20.1	5865.5	20.6	5245.4
549	2.287	16.9	4642.2	88.1	20.5	5886.0	18.7	5264.1
550	2.301	15.9	4658.1	91.9	24.4	5910.4	20.1	5284.2
551	2.268	18.5	4676.6	98.2	31.2	5941.6	24.9	5309.1
552	2.234	21.2	4697.8	100.3	33.6	5975.2	27.4	5336.5
553	2.244	20.4	4718.2	95.3	28.1	6003.3	24.2	5360.7
554	2.283	17.2	4735.5	87.3	19.7	6023.0	18.5	5379.2
555	2.328	13.7	4749.2	83.0	15.5	6038.4	14.6	5393.8

K E R O G E N A N A L Y S I S

F O R

W H I T E R I V E R O I L S H A L E P R O J E C T W E L L X - 1 4

DEPTH	D E N S I T Y L O G			V E L O C I T Y L O G			D E N S I T Y A N D V E L O C I T Y	
	R H O - B	G A L / T O N	A C C U M . Y I E L D	R H O - B	G A L / T O N	A C C U M . Y I E L D	G A L / T O N	A C C U M . Y I E L D
556	2.334	13.3	4762.4	82.6	15.1	6053.5	14.2	5407.9
557	2.311	15.1	4777.5	87.3	19.7	6073.2	17.4	5425.3
558	2.272	18.2	4795.7	93.2	25.8	6099.0	22.0	5447.3
559	2.223	22.2	4817.9	99.9	33.1	6132.1	27.7	5475.0
560	2.193	24.6	4842.5	107.5	41.9	6174.0	33.3	5508.3
561	2.191	24.8	4867.3	108.8	43.5	6217.5	34.1	5542.4
562	2.219	22.5	4889.9	97.8	30.8	6248.3	26.6	5569.1
563	2.242	20.7	4910.6	94.9	27.6	6275.9	24.2	5593.2
564	2.248	20.1	4930.7	103.3	37.0	6312.9	28.5	5621.8
565	2.242	20.6	4951.2	104.6	38.5	6351.4	29.5	5651.3
566	2.270	18.3	4969.6	96.1	28.9	6380.3	23.6	5674.9
567	2.311	15.1	4984.7	92.3	24.9	6405.2	20.0	5694.9
568	2.356	11.6	4996.3	88.1	20.5	6425.7	16.1	5711.0
569	2.360	11.3	5007.6	83.9	16.3	6442.0	13.8	5724.8
570	2.346	12.4	5020.0	84.7	17.1	6459.1	14.7	5739.5
571	2.330	13.6	5033.6	89.8	22.3	6481.4	17.9	5757.5
572	2.328	13.7	5047.3	88.1	20.5	6501.9	17.1	5774.6
573	2.356	11.6	5058.9	74.2	7.3	6509.2	9.5	5784.0
574	2.389	9.1	5068.0	75.0	8.0	6517.2	8.6	5792.6