

## K E R O G E N   A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL X-9

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
80	2.090	33.7	33.7					
81	2.090	33.7	67.5					
82	2.060	36.5	104.0					
83	2.035	38.9	142.9					
84	2.040	38.4	181.3					
85	2.070	35.6	216.9					
86	2.095	33.3	250.2					
87	2.080	34.7	284.8					
88	2.045	37.9	322.8					
89	2.050	37.5	360.2					
90	2.060	36.5	396.7					
91	2.075	35.1	431.9					
92	2.080	34.7	466.5					
93	2.065	36.1	502.6					
94	2.105	32.4	535.0					
95	2.125	30.6	565.5					
96	2.120	31.0	596.6					
97	2.115	31.5	628.0					
98	2.105	32.4	660.4					
99	2.110	31.9	692.3					
100	2.130	30.1	722.5					
101	2.120	31.0	753.5					
102	2.120	31.0	784.5					
103	2.110	31.9	816.5					
104	2.100	32.8	849.3					
105	2.080	34.7	883.9					
106	2.065	36.1	920.0					
107	2.040	38.4	958.4					
108	2.010	41.3	999.7					
109	2.005	41.8	1041.5					
110	2.005	41.8	1083.3					
111	1.985	43.8	1127.0					
112	1.980	44.3	1171.3					
113	1.980	44.3	1215.5					
114	1.980	44.3	1259.8					
115	1.985	43.8	1303.6					
116	2.010	41.3	1344.9					
117	2.055	37.0	1381.9					
118	2.065	36.1	1417.5					
119	2.065	36.1	1454.0					
120	2.035	38.9	1492.8					
121	1.990	43.3	1536.1					
122	1.990	43.3	1579.4					
123	2.005	41.8	1621.2					
124	2.005	41.8	1663.0					
125	2.005	41.8	1704.7					
126	2.005	41.8	1746.5					
127	2.005	41.8	1788.3					

# KEROGEN ANALYSIS

## FOR

THE CLEVELAND CLIFFS IRON COMPANY-BELL X-9

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
130	2.045	37.9	1912.3					
131	1.995	42.8	1955.0					
132	1.970	45.3	2000.3					
133	2.010	41.3	2041.6					
134	2.050	37.5	2079.1					
135	2.075	35.1	2114.2					
136	2.090	33.7	2147.9					
137	2.110	31.9	2179.8					
138	2.145	28.8	2208.7					
139	2.095	33.3	2241.9					
140	2.045	37.9	2279.9					
141	2.020	40.3	2320.2					
142	2.015	40.8	2361.0					
143	2.020	40.3	2401.3					
144	2.015	40.8	2442.2					
145	2.010	41.3	2483.4					
146	2.020	40.3	2523.8					
147	2.035	38.9	2562.7					
148	2.035	38.9	2601.5					
149	2.025	39.8	2641.4					
150	2.020	40.3	2681.7					
151	2.010	41.3	2723.0					
152	1.990	43.3	2766.3					
153	1.990	43.3	2809.5					
154	2.010	41.3	2850.8					
155	2.040	38.4	2889.3					
156	2.050	37.5	2926.7					
157	2.050	37.5	2964.2					
158	2.045	37.9	3002.1					
159	2.040	38.4	3040.5					
160	2.035	38.9	3079.4					
161	2.025	39.8	3119.2					
162	2.015	40.8	3160.1					
163	2.000	42.3	3202.3					
164	2.000	42.3	3244.6					
165	2.000	42.3	3286.9					
166	2.000	42.3	3329.2					
167	2.000	42.3	3371.4					
168	2.005	41.8	3413.2					
169	2.010	41.3	3454.5					
170	2.005	36.1	3490.6					
171	2.005	37.0	3527.6					
172	2.000	42.3	3569.8					
173	1.970	45.3	3615.1					
174	1.950	47.3	3662.4					
175	1.912	41.8	3700.2					
176	1.912	41.8	3742.0					
177	1.912	41.8	3783.8					
178	1.912	41.8	3825.6					
179	1.912	41.8	3867.4					

# PERFORM ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON COMPANY-MELL X-9

DEPTH		DENSITY LOG		VELOCITY LOG		DENSITY AND VELOCITY	
		GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON
180	2.055	37.0	3916.5				
181	2.055	37.0	3953.5				
182	2.065	26.1	3989.5				
183	2.110	31.9	4021.5				
184	2.160	27.5	4049.0				
185	2.200	24.1	4073.0				
186	2.225	22.0	4095.0				
187	2.250	19.9	4115.0				
188	2.255	19.5	4134.5				
189	2.285	17.1	4151.6				
190	2.285	17.1	4168.7				
191	2.315	14.8	4183.5				
192	2.380	9.8	4193.3				
193	2.425	6.5	4199.8				
194	2.500	1.2	4201.1				
195	2.590	0.0	4201.1				
196	2.615	0.0	4201.1				
197	2.640	0.0	4201.1				
198	2.645	0.0	4201.1				
199	2.645	0.0	4201.1				
200	2.635	0.0	4201.1				
201	2.605	0.0	4201.1				
202	2.580	0.0	4201.1				
203	2.560	0.0	4201.1				
204	2.510	0.6	4201.6				
205	2.460	4.0	4205.7				
206	2.385	9.5	4215.1				
207	2.340	12.8	4227.9				
208	2.310	15.2	4243.1				
209	2.310	15.2	4258.3				
210	2.295	16.3	4274.6				
211	2.305	15.5	4290.1				
212	2.315	14.8	4304.9				
213	2.310	15.2	4320.0				
214	2.300	15.9	4336.0				
215	2.310	15.2	4351.1				
216	2.325	14.0	4365.1				
217	2.325	14.0	4379.1				
218	2.335	13.2	4392.3				
219	2.350	12.1	4404.4				
220	2.340	11.3	4415.7				
221	2.345	12.5	4428.2				
222	2.335	13.2	4441.4				
223	2.325	13.2	4454.6				
224	2.315	13.5	4467.2				
225	2.305	13.5	4479.7				
226	2.295	13.5	4492.2				
227	2.285	13.5	4504.7				
228	2.275	13.5	4517.2				
229	2.265	13.5	4529.7				

## K E R O G E N   A N A L Y S I S

F O R

THE CLEVELAND CLIFFS IRON COMPANY-WELL X-9

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
230	2.330	13.6	4548.3					
231	2.335	13.2	4561.5					
232	2.315	14.8	4576.3					
233	2.320	14.4	4590.6					
234	2.320	14.4	4605.0					
235	2.330	13.6	4618.6					
236	2.340	12.8	4631.5					
237	2.350	12.1	4643.5					
238	2.365	10.9	4654.5					
239	2.365	10.9	4665.4					
240	2.360	11.3	4676.7					
241	2.360	11.3	4688.1					
242	2.345	12.5	4700.5					
243	2.335	13.2	4713.7					
244	2.335	13.2	4726.9					
245	2.345	12.5	4739.4					
246	2.350	12.1	4751.5					
247	2.355	11.7	4763.2					
248	2.360	11.3	4774.5					
249	2.360	11.3	4785.8					
250	2.365	10.9	4796.8					
251	2.365	10.9	4807.7					
252	2.375	10.2	4817.9					
253	2.380	9.8	4827.7					
254	2.365	10.9	4838.7					
255	2.375	10.2	4848.8					
256	2.380	9.8	4858.7					
257	2.360	11.3	4870.0					
258	2.360	11.3	4881.3					
259	2.365	10.9	4892.3					
260	2.330	13.6	4905.9					
261	2.325	14.0	4919.8					
262	2.325	14.0	4933.8					
263	2.300	15.9	4949.8					
264	2.285	17.1	4966.9					
265	2.280	17.5	4984.4					
266	2.260	19.1	5002.5					
267	2.260	19.1	5022.6					
268	2.290	16.7	5039.4					
269	2.305	15.5	5054.9					
270	2.310	15.2	5070.1					
271	2.325	14.0	5084.0					
272	2.345	12.5	5096.5					
273	2.330	13.6	5110.1					
274	2.295	15.3	5124.4					
275	2.305	15.5	5142.0					
276	2.305	15.5	5156.5					
277	2.305	15.5	5171.0					
278	2.305	15.5	5185.5					
279	2.340	12.8	5196.5					

## K E R O G E N   A N A L Y S I S

F O R

T H E C L E V E L A N D C L I F F S I R O N C O M P A N Y - W E L L X - 9

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
280	2.340	12.8	5207.3					
281	2.330	13.6	5220.9					
282	2.355	11.7	5232.6					
283	2.355	11.7	5244.3					
284	2.355	11.7	5256.0					
285	2.355	11.7	5267.7					
286	2.360	11.3	5279.0					
287	2.350	12.1	5291.1					
288	2.345	12.5	5303.5					
289	2.345	12.5	5316.0					
290	2.340	12.8	5328.8					
291	2.320	14.4	5343.2					
292	2.320	14.4	5357.6					
293	2.330	13.6	5371.2					
294	2.335	13.2	5384.4					
295	2.330	13.6	5398.0					
296	2.350	12.1	5410.1					
297	2.350	12.1	5422.1					
298	2.315	14.8	5436.9					
299	2.315	14.8	5451.7					
300	2.335	13.2	5464.9					
301	2.340	12.8	5477.7					
302	2.305	15.5	5493.3					
303	2.280	17.5	5510.8					
304	2.275	17.9	5528.7					
305	2.250	19.9	5548.6					
306	2.255	19.5	5568.2					
307	2.255	19.5	5587.7					
308	2.235	21.2	5608.8					
309	2.235	21.2	5630.0					
310	2.235	21.2	5651.2					
311	2.235	21.2	5672.3					
312	2.235	21.2	5693.5					
313	2.235	21.2	5714.6					
314	2.230	21.6	5736.2					
315	2.230	21.6	5757.8					
316	2.230	21.6	5779.4					
317	2.250	19.9	5799.3					
318	2.250	19.9	5819.2					
319	2.245	20.3	5839.6					
320	2.250	19.9	5859.5					
321	2.250	19.9	5879.4					
322	2.235	21.2	5900.6					
323	2.215	22.8	5923.4					
324	2.190	24.9	5948.3					
325	2.170	24.6	5975.0					
326	2.175	24.0	5999.9					
327	2.175	24.0	6024.9					
328	2.175	24.0	6049.9					
329	2.120	31.0	6091.5					

## K E R O G E N   A N A L Y S I S

F O R

T H E   C L E V E L A N D   C L I F F S   I R O N   C O M P A N Y - W E L L   X - 9

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
330	2.125	30.6	6122.1					
331	2.120	31.0	6153.1					
332	2.115	31.5	6184.6					
333	2.090	33.7	6218.3					
334	2.090	33.7	6252.1					
335	2.095	33.3	6285.4					
336	2.110	31.9	6317.3					
337	2.140	29.2	6346.5					
338	2.155	27.9	6374.5					
339	2.165	27.1	6401.5					
340	2.165	27.1	6428.6					
341	2.165	27.1	6455.7					
342	2.155	27.9	6483.6					
343	2.160	27.5	6511.1					
344	2.165	27.1	6538.1					
345	2.175	26.2	6564.4					
346	2.170	26.6	6591.0					
347	2.175	26.2	6617.2					
348	2.200	24.1	6641.3					
349	2.220	22.4	6663.7					
350	2.235	21.2	6684.8					
351	2.230	21.6	6706.4					
352	2.225	22.0	6728.4					
353	2.220	22.4	6750.8					
354	2.230	21.6	6772.3					
355	2.235	21.2	6793.5					
356	2.255	19.5	6813.0					
357	2.270	18.3	6831.3					
358	2.285	17.1	6848.5					
359	2.305	15.5	6864.0					
360	2.320	14.4	6878.4					
361	2.325	14.0	6892.4					
362	2.325	14.0	6906.4					
363	2.325	14.0	6920.4					
364	2.350	12.1	6932.4					
365	2.380	9.8	6942.2					
366	2.360	11.3	6953.6					
367	2.325	14.0	6967.6					
368	2.330	13.6	6981.2					
369	2.340	12.8	6994.0					
370	2.335	13.2	7007.2					
371	2.330	13.6	7020.8					
372	2.335	13.2	7034.0					
373	2.335	13.2	7047.3					
374	2.330	13.6	7060.9					
375	2.330	13.6	7074.5					
376	2.345	12.5	7084.9					
377	2.325	14.0	7098.0					
378	2.325	14.0	7112.0					
379	2.320	14.4	7129.6					

## K E R O G E N   A N A L Y S I S

F O R

T H E C L E V E L A N D C L I F F S I R O N C O M P A N Y - W E L L X - 9

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
380	2.325	14.0	7143.6					
381	2.350	12.1	7155.7					
382	2.360	11.3	7167.0					
383	2.370	10.6	7177.6					
384	2.395	8.7	7186.3					
385	2.400	8.3	7194.6					
386	2.400	8.3	7203.0					
387	2.395	8.7	7211.7					
388	2.420	6.9	7218.6					
389	2.425	6.5	7225.1					
390	2.400	8.3	7233.5					
391	2.390	9.1	7242.5					
392	2.385	9.5	7252.0					
393	2.370	10.6	7262.6					
394	2.375	10.2	7272.7					
395	2.385	9.5	7282.2					
396	2.390	9.1	7291.3					
397	2.390	9.1	7300.4					
398	2.380	9.8	7310.2					
399	2.370	10.6	7320.7					
400	2.355	11.7	7332.4					
401	2.350	12.1	7344.5					
402	2.360	11.3	7355.8					
403	2.365	10.9	7366.8					
404	2.365	10.9	7377.7					
405	2.375	10.2	7387.9					
406	2.375	10.2	7398.1					
407	2.380	9.8	7407.9					
408	2.380	9.8	7417.7					
409	2.390	9.1	7426.8					
410	2.410	7.6	7434.4					
411	2.440	5.4	7439.9					
412	2.525	0.0	7439.9					
413	2.560	0.0	7439.9					
414	2.565	0.0	7439.9					
415	2.575	0.0	7439.9					
416	2.570	0.0	7439.9					
417	2.555	0.0	7439.9					
418	2.550	0.0	7439.9					
419	2.555	0.0	7439.9					
420	2.540	0.0	7439.9					
421	2.525	0.0	7439.9					
422	2.525	0.0	7439.9					
423	2.525	0.0	7439.9					
424	2.540	0.0	7439.9					
425	2.545	0.0	7439.9					
426	2.565	0.0	7439.9					
427	2.565	0.0	7439.9					
428	2.565	0.0	7439.9					
429	2.560	0.0	7439.9					

## K E R O G E N   A N A L Y S I S

F O R

T H E   C L E V E L A N D   C L I F F S   I R O N   C O M P A N Y - W E L L   X - 9

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
430	2.535	0.0	7439.5					
431	2.510	0.6	7440.4					
432	2.540	0.0	7440.4					
433	2.565	0.0	7440.4					
434	2.555	0.0	7440.4					
435	2.560	0.0	7440.4					
436	2.580	0.0	7440.4					
437	2.590	0.0	7440.4					
438	2.585	0.0	7440.4					
439	2.590	0.0	7440.4					
440	2.595	0.0	7440.4					
441	2.570	0.0	7440.4					
442	2.570	0.0	7440.4					
443	2.540	0.0	7440.4					
444	2.530	0.0	7440.4					
445	2.485	2.3	7442.7					
446	2.465	3.7	7446.4					
447	2.450	4.7	7451.1					
448	2.435	5.8	7456.9					
449	2.460	4.0	7461.0					
450	2.460	4.0	7465.0					
451	2.470	3.3	7468.3					
452	2.495	1.6	7469.9					
453	2.495	1.6	7471.5					
454	2.495	1.6	7473.1					
455	2.535	0.0	7473.1					
456	2.555	0.0	7473.1					
457	2.570	0.0	7473.1					
458	2.590	0.0	7473.1					
459	2.610	0.0	7473.1					
460	2.605	0.0	7473.1					
461	2.605	0.0	7473.1					
462	2.615	0.0	7473.1					
463	2.620	0.0	7473.1					
464	2.625	0.0	7473.1					
465	2.655	0.0	7473.1					
466	2.655	0.0	7473.1					
467	2.655	0.0	7473.1					
468	2.645	0.0	7473.1					
469	2.640	0.0	7473.1					
470	2.645	0.0	7473.1					
471	2.635	0.0	7473.1					
472	2.635	0.0	7473.1					
473	2.640	0.0	7473.1					
474	2.635	0.0	7473.1					
475	2.640	0.0	7473.1					
476	2.640	0.0	7473.1					
477	2.640	0.0	7473.1					
478	2.640	0.0	7473.1					
479	2.640	0.0	7473.1					
480	2.640	0.0	7473.1					



## K E R O G E N   A N A L Y S I S

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL X-9

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
480	2.635	0.0	7473.1					
481	2.630	0.0	7473.1					
482	2.635	0.0	7473.1					
483	2.625	0.0	7473.1					
484	2.625	0.0	7473.1					
485	2.630	0.0	7473.1					
486	2.635	0.0	7473.1					
487	2.635	0.0	7473.1					
488	2.635	0.0	7473.1					
489	2.630	0.0	7473.1					
490	2.630	0.0	7473.1					
491	2.625	0.0	7473.1					
492	2.635	0.0	7473.1					
493	2.635	0.0	7473.1					
494	2.635	0.0	7473.1					
495	2.655	0.0	7473.1					
496	2.665	0.0	7473.1					
497	2.645	0.0	7473.1					
498	2.635	0.0	7473.1					
499	2.655	0.0	7473.1					
500	2.665	0.0	7473.1					
501	2.650	0.0	7473.1					
502	2.635	0.0	7473.1					
503	2.610	0.0	7473.1					
504	2.585	0.0	7473.1					
505	2.545	0.0	7473.1					
506	2.470	3.3	7476.4					
507	2.530	0.0	7476.4					
508	2.625	0.0	7476.4					
509	2.620	0.0	7476.4					
510	2.615	0.0	7476.4					
511	2.595	0.0	7476.4					
512	2.570	0.0	7476.4					
513	2.515	0.2	7476.6					
514	2.450	4.7	7481.3					
515	2.420	6.9	7488.2					
516	2.405	8.0	7496.2					
517	2.450	4.7	7500.9					
518	2.580	0.0	7500.9					
519	2.605	0.0	7500.9					
520	2.620	0.0	7500.9					
521	2.635	0.0	7500.9					
522	2.625	0.0	7500.9					
523	2.555	0.0	7500.9					
524	2.500	1.2	7502.2					
525	2.440	5.4	7517.5					
526	2.350	11.3	7521.6					
527	2.250	11.0	7521.6					
528	2.271							
529	2.645	0.0	7520.9					

## K E R O G E N   A N A L Y S I S

F O R

T H E   C L E V E L A N D   C L I F F S   I R O N   C O M P A N Y - W E L L   X - 9

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
530	2.650	0.0	7520.9					
531	2.650	0.0	7520.9					
532	2.660	0.0	7520.9					
533	2.675	0.0	7520.9					
534	2.665	0.0	7520.9					
535	2.645	0.0	7520.9					
536	2.650	0.0	7520.9					
537	2.605	0.0	7520.9					
538	2.600	0.0	7520.9					
539	2.580	0.0	7520.9					
540	2.555	0.0	7520.9					
541	2.520	0.0	7520.9					
542	2.465	3.7	7524.5					
543	2.390	9.1	7533.6					
544	2.295	16.3	7550.0					
545	2.240	20.8	7570.7					
546	2.235	21.2	7591.9					
547	2.210	23.2	7615.1					
548	2.190	24.9	7640.0					
549	2.130	30.1	7670.2					
550	2.055	37.0	7707.1					
551	1.980	44.3	7751.4					
552	1.845	58.5	7809.9					
553	1.740	70.8	7880.7					
554	1.855	57.4	7938.1					
555	2.295	16.3	7954.4					
556	2.345	12.5	7966.9					
557	2.395	8.7	7975.6					
558	2.505	0.9	7976.5					
559	2.540	0.0	7976.5					
560	2.545	0.0	7976.5					
561	2.460	4.0	7980.5					
562	2.360	11.3	7991.9					
563	2.280	17.5	8009.4					
564	2.270	18.3	8027.7					
565	2.160	27.5	8055.2					
566	2.065	36.1	8091.2					
567	2.220	22.4	8113.6					
568	2.540	0.0	8113.6					
569	2.670	0.0	8113.6					
570	2.685	0.0	8113.6					
571	2.690	0.0	8113.6					
572	2.670	0.0	8113.6					
573	2.630	0.0	8113.6					
574	2.540	0.0	8113.6					
575	2.450	6.7	8118.4					
576	2.350	12.1	8120.4					
577	2.175	23.2	8122.4					
578	1.960	46.3	8241.3					
579	1.960	46.3	8241.3					

## K E R O G E N   A N A L Y S I S

F O R

T H E   C I E V E L A N D   C L I F F S   I R O N   C O M P A N Y - W E L L   X - 9

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
580	1.900	52.5	8293.8					
581	2.010	41.3	8335.1					
582	2.255	19.5	8354.7					
583	2.410	7.6	8362.3					
584	2.540	0.0	8362.3					
585	2.520	0.0	8362.3					
586	2.530	0.0	8362.3					
587	2.545	0.0	8362.3					
588	2.470	3.3	8365.6					
589	2.450	4.7	8370.3					
590	2.430	6.2	8376.5					
591	2.465	3.7	8380.2					
592	2.500	1.2	8381.4					
593	2.455	4.4	8385.8					
594	2.400	8.3	8394.1					
595	2.530	0.0	8394.1					
596	2.585	0.0	8394.1					
597	2.510	0.6	8394.7					
598	2.465	3.7	8398.4					
599	2.395	8.7	8407.1					
600	2.315	14.8	8421.8					
601	2.425	6.5	8428.4					
602	2.480	2.6	8431.0					
603	2.510	0.6	8431.5					
604	2.550	0.0	8431.5					
605	2.565	0.0	8431.5					
606	2.560	0.0	8431.5					
607	2.570	0.0	8431.5					
608	2.570	0.0	8431.5					
609	2.560	0.0	8431.5					
610	2.520	0.0	8431.5					
611	2.590	0.0	8431.5					
612	2.635	0.0	8431.5					
613	2.625	0.0	8431.5					
614	2.575	0.0	8431.5					
615	2.555	0.0	8431.5					
616	2.540	0.0	8431.5					
617	2.550	0.0	8431.5					
618	2.545	0.0	8431.5					
619	2.495	1.6	8433.1					
620	2.570	0.0	8433.1					
621	2.630	0.0	8433.1					
622	2.660	0.0	8433.1					
623	2.640	0.0	8433.1					
624	2.625	0.0	8433.1					
625	2.600	0.0	8433.1					
626	2.570	0.0	8433.1					
627	2.550	0.0	8433.1					
628	2.530	0.0	8433.1					
629	2.325	14.0	8433.3					

## K E R O G E N   A N A L Y S I S

F O R

T H E   C L E V E L A N D   C L I F F S   I R O N   C O M P A N Y - W E L L   X - 9

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
630	2.305	15.5	8468.8					
631	2.470	3.3	8472.1					
632	2.520	0.0	8472.1					
633	2.410	7.6	8479.8					
634	2.260	19.1	8498.9					
635	2.150	28.4	8527.3					
636	2.035	38.9	8566.1					
637	2.145	28.8	8594.9					
638	2.275	17.9	8612.9					
639	2.490	1.9	8614.8					
640	2.405	8.0	8622.8					
641	2.310	15.2	8637.9					
642	2.300	15.9	8653.9					
643	2.395	8.7	8662.6					
644	2.490	1.9	8664.5					
645	2.450	4.7	8669.2					
646	2.410	7.6	8676.8					
647	2.400	8.3	8685.2					
648	2.380	9.8	8695.0					
649	2.460	4.0	8699.0					
650	2.510	0.6	8699.6					
651	2.570	0.0	8699.6					
652	2.635	0.0	8699.6					
653	2.660	0.0	8699.6					
654	2.670	0.0	8699.6					
655	2.665	0.0	8699.6					
656	2.645	0.0	8699.6					
657	2.630	0.0	8699.6					
658	2.605	0.0	8699.6					
659	2.580	0.0	8699.6					
660	2.615	0.0	8699.6					
661	2.670	0.0	8699.6					
662	2.675	0.0	8699.6					
663	2.680	0.0	8699.6					
664	2.670	0.0	8699.6					
665	2.660	0.0	8699.6					
666	2.655	0.0	8699.6					
667	2.670	0.0	8699.6					
668	2.680	0.0	8699.6					
669	2.680	0.0	8699.6					
670	2.655	0.0	8699.6					
671	2.655	0.0	8699.6					
672	2.640	0.0	8699.6					
673	2.630	0.0	8699.6					
674	2.610	0.0	8699.6					
675	2.590	0.0	8699.6					
676	2.570	0.0	8699.6					
677	2.555	0.0	8699.6					
678	2.540	0.0	8699.6					
679	2.500	0.0	8699.6					

## K E R O G E N   A N A L Y S I S

F O R

T H E   C L E V E L A N D   C L I F F S   I R O N   C O M P A N Y - W E L L   X - 9

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
680	2.700	0.0	8699.6					
681	2.690	0.0	8699.6					
682	2.690	0.0	8699.6					
683	2.690	0.0	8699.6					
684	2.680	0.0	8699.6					
685	2.695	0.0	8699.6					
686	2.690	0.0	8699.6					
687	2.680	0.0	8699.6					
688	2.690	0.0	8699.6					
689	2.685	0.0	8699.6					
690	2.660	0.0	8699.6					
691	2.635	0.0	8699.6					
692	2.590	0.0	8699.6					
693	2.535	0.0	8699.6					
694	2.640	0.0	8699.6					
695	2.660	0.0	8699.6					
696	2.660	0.0	8699.6					
697	2.640	0.0	8699.6					
698	2.620	0.0	8699.6					
699	2.570	0.0	8699.6					
700	2.615	0.0	8699.6					
701	2.680	0.0	8699.6					
702	2.705	0.0	8699.6					
703	2.705	0.0	8699.6					
704	2.690	0.0	8699.6					
705	2.660	0.0	8699.6					
706	2.650	0.0	8699.6					
707	2.670	0.0	8699.6					
708	2.680	0.0	8699.6					
709	2.705	0.0	8699.6					
710	2.690	0.0	8699.6					
711	2.670	0.0	8699.6					
712	2.660	0.0	8699.6					
713	2.640	0.0	8699.6					
714	2.610	0.0	8699.6					
715	2.570	0.0	8699.6					
716	2.660	0.0	8699.6					
717	2.655	0.0	8699.6					
718	2.655	0.0	8699.6					
719	2.645	0.0	8699.6					
720	2.630	0.0	8699.6					
721	2.615	0.0	8699.6					
722	2.605	0.0	8699.6					
723	2.575	0.0	8699.6					
724	2.600	0.0	8699.6					
725	2.610	0.0	8699.6					
726	2.610	0.0	8699.6					
727	2.610	0.0	8699.6					
728	2.610	0.0	8699.6					
729	2.610	0.0	8699.6					
730	2.610	0.0	8699.6					
731	2.610	0.0	8699.6					
732	2.610	0.0	8699.6					
733	2.610	0.0	8699.6					
734	2.610	0.0	8699.6					
735	2.610	0.0	8699.6					
736	2.610	0.0	8699.6					
737	2.610	0.0	8699.6					
738	2.610	0.0	8699.6					
739	2.610	0.0	8699.6					
740	2.610	0.0	8699.6					
741	2.610	0.0	8699.6					
742	2.610	0.0	8699.6					
743	2.610	0.0	8699.6					
744	2.610	0.0	8699.6					
745	2.610	0.0	8699.6					
746	2.610	0.0	8699.6					
747	2.610	0.0	8699.6					
748	2.610	0.0	8699.6					
749	2.610	0.0	8699.6					
750	2.610	0.0	8699.6					
751	2.610	0.0	8699.6					
752	2.610	0.0	8699.6					
753	2.610	0.0	8699.6					
754	2.610	0.0	8699.6					
755	2.610	0.0	8699.6					
756	2.610	0.0	8699.6					
757	2.610	0.0	8699.6					
758	2.610	0.0	8699.6					
759	2.610	0.0	8699.6					
760	2.610	0.0	8699.6					
761	2.610	0.0	8699.6					
762	2.610	0.0	8699.6					
763	2.610	0.0	8699.6					
764	2.610	0.0	8699.6					
765	2.610	0.0	8699.6					
766	2.610	0.0	8699.6					
767	2.610	0.0	8699.6					
768	2.610	0.0	8699.6					
769	2.610	0.0	8699.6					
770	2.610	0.0	8699.6					
771	2.610	0.0	8699.6					
772	2.610	0.0	8699.6					
773	2.610	0.0	8699.6					
774	2.610	0.0	8699.6					
775	2.610	0.0	8699.6					
776	2.610	0.0	8699.6					
777	2.610	0.0	8699.6					
778	2.610	0.0	8699.6					
779	2.610	0.0	8699.6					
780	2.610	0.0	8699.6					
781	2.610	0.0	8699.6					
782	2.610	0.0	8699.6					
783	2.610	0.0	8699.6					
784	2.610	0.0	8699.6					
785	2.610	0.0	8699.6					
786	2.610	0.0	8699.6					
787	2.610	0.0	8699.6					
788	2.610	0.0	8699.6					
789	2.610	0.0	8699.6					
790	2.610	0.0	8699.6					
791	2.610	0.0	8699.6					
792	2.610	0.0	8699.6					
793	2.610	0.0	8699.6					
794	2.610	0.0	8699.6					
795	2.610	0.0	8699.6					
796	2.610	0.0	8699.6					
797	2.610	0.0	8699.6					
798	2.610	0.0	8699.6					
799	2.610	0.0	8699.6					
800	2.610	0.0	8699.6					
801	2.610	0.0	8699.6					
802	2.610	0.0	8699.6					
803	2.610	0.0	8699.6					
804	2.610	0.0	8699.6					
805	2.610	0.0	8699.6					
806	2.610	0.0	8699.6					
807	2.610	0.0	8699.6					
808	2.610	0.0	8699.6					
809	2.610	0.0	8699.6					
810	2.610	0.0	8699.6					
811	2.610	0.0	8699.6					
812	2.610	0.0	8699.6					
813	2.610	0.0	8699.6					
814	2.610	0.0	8699.6					
815	2.610	0.0	8699.6					
816	2.610	0.0	8699.6					
817	2.610	0.0	8699.6					
818	2.610	0.0	8699.6					
819	2.610	0.0	8699.6					
820	2.610	0.0	8699.6					
821	2.610	0.0	8699.6					
822	2.610	0.0	8699.6					
823	2.610	0.0	8699.6					
824	2.610	0.0	8699.6					
825	2.610	0.0	8699.6					
826	2.610	0.0	8699.6					
827	2.610	0.0	8699.6					
828	2.610	0.0	8699.6					
829	2.610	0.0	8699.6					
830	2.610	0.0	8699.6					
831	2.610	0.0	8699.6					
832	2.610	0.0	8699.6					
833	2.610	0.0	8699.6					
834	2.610	0.0	8699.6					
835	2.610	0.0	8699.6					
836	2.610	0.0	8699.6					
837	2.610	0.0	8699.6					
838	2.610	0.0	8699.6					
839	2.610	0.0	8699.6					
840	2.610	0.0	8699.6					
841	2.610	0.0	8699.6					
842	2.610	0.0	8699.6					
843	2.610	0.0	8699.6					
844	2.610	0.0	8699.6					
845	2.610	0.0	8699.6					
846	2.610	0.0	8699.6					
847	2.610	0.0	8699.6					
848	2.610	0.0	8699.6					
849	2.610	0.0	8699.6					
850	2.610	0.0	8699.6					
851	2.610	0.0	8699.6					
852	2.610	0.0	8699.6					
853	2.610	0.0	8699.6					
854	2.610	0.0	8699.6					
855	2.610	0.0	8699.6					
856	2.610	0.0	8699.6					
857	2.610	0.0	8699.6					
858	2.610	0.0	8699.6					
859	2.610	0.0	8699.6					
860	2.610	0.0	8699.6					
861	2.610	0.0	8699.6					
862	2.610	0.0	8699.6					
863	2.610	0.0	8699.6					
864	2.610	0.0	8699.6					
865	2.610	0.0	8699.6					
866	2.610	0.0	8699.6					
867	2.610	0.0	8699.6					
868	2.610	0.0	8699.6					
869	2.610	0.0	8699.6					
870	2.610	0.0	8699.6					
871	2.610	0.0	8699.6					
872	2.610	0.0	8699.6					
8								

## K E R O G E N   A N A L Y S I S

F O R

T H E   C L E V E L A N D   C L I F F S   I R O N   C O M P A N Y - W E L L   X - 9

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
730	2.655	0.0	8700.5					
731	2.670	0.0	8700.5					
732	2.645	0.0	8700.5					
733	2.610	0.0	8700.5					
734	2.580	0.0	8700.5					
735	2.550	0.0	8700.5					
736	2.595	0.0	8700.5					
737	2.605	0.0	8700.5					
738	2.590	0.0	8700.5					
739	2.550	0.0	8700.5					
740	2.500	1.2	8701.7					
741	2.570	0.0	8701.7					
742	2.620	0.0	8701.7					
743	2.605	0.0	8701.7					
744	2.575	0.0	8701.7					
745	2.565	0.0	8701.7					
746	2.545	0.0	8701.7					
747	2.540	0.0	8701.7					
748	2.525	0.0	8701.7					
749	2.565	0.0	8701.7					
750	2.580	0.0	8701.7					