

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

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
509	2.630	0.0	0.0	63.7	0.0	0.0	0.0	0.0
510	2.630	0.0	0.0	63.7	0.0	0.0	0.0	0.0
511	2.635	0.0	0.0	62.0	0.0	0.0	0.0	0.0
512	2.620	0.0	0.0	61.6	0.0	0.0	0.0	0.0
513	2.600	0.0	0.0	62.4	0.0	0.0	0.0	0.0
514	2.600	0.0	0.0	65.4	0.0	0.0	0.0	0.0
515	2.600	0.0	0.0	66.3	0.6	0.6	0.3	0.3
516	2.575	0.0	0.0	63.7	0.0	0.6	0.0	0.3
517	2.530	0.0	0.0	63.7	0.0	0.6	0.0	0.3
518	2.630	0.0	0.0	65.0	0.0	0.6	0.0	0.3
519	2.640	0.0	0.0	65.4	0.0	0.6	0.0	0.3
520	2.640	0.0	0.0	64.1	0.0	0.6	0.0	0.3
521	2.615	0.0	0.0	64.2	0.0	0.6	0.0	0.3
522	2.620	0.0	0.0	64.6	0.0	0.6	0.0	0.3
523	2.640	0.0	0.0	63.7	0.0	0.6	0.0	0.3
524	2.640	0.0	0.0	63.2	0.0	0.6	0.0	0.3
525	2.650	0.0	0.0	63.2	0.0	0.6	0.0	0.3
526	2.680	0.0	0.0	64.1	0.0	0.6	0.0	0.3
527	2.685	0.0	0.0	64.1	0.0	0.6	0.0	0.3
528	2.665	0.0	0.0	64.1	0.0	0.6	0.0	0.3
529	2.640	0.0	0.0	66.3	0.6	1.2	0.3	0.6
530	2.635	0.0	0.0	68.5	2.4	3.6	1.2	1.8
531	2.595	0.0	0.0	68.5	2.4	6.1	1.2	3.0
532	2.550	0.0	0.0	68.5	2.4	8.5	1.2	4.2
533	2.620	0.0	0.0	67.2	1.3	9.8	0.7	4.9
534	2.660	0.0	0.0	65.0	0.0	9.8	0.0	4.9
535	2.670	0.0	0.0	63.3	0.0	9.8	0.0	4.9
536	2.680	0.0	0.0	62.0	0.0	9.8	0.0	4.9
537	2.680	0.0	0.0	62.4	0.0	9.8	0.0	4.9
538	2.685	0.0	0.0	63.3	0.0	9.8	0.0	4.9
539	2.695	0.0	0.0	63.3	0.0	9.8	0.0	4.9
540	2.710	0.0	0.0	63.3	0.0	9.8	0.0	4.9
541	2.710	0.0	0.0	64.6	0.0	9.8	0.0	4.9
542	2.700	0.0	0.0	65.9	0.3	10.1	0.1	5.1
543	2.695	0.0	0.0	65.9	0.3	10.4	0.1	5.2
544	2.695	0.0	0.0	65.0	0.0	10.4	0.0	5.2
545	2.680	0.0	0.0	65.4	0.0	10.4	0.0	5.2
546	2.680	0.0	0.0	65.4	0.0	10.4	0.0	5.2
547	2.680	0.0	0.0	63.2	0.0	10.4	0.0	5.2
548	2.665	0.0	0.0	63.2	0.0	10.4	0.0	5.2
549	2.635	0.0	0.0	66.3	3.1	13.5	1.5	6.7
550	2.630	0.0	0.0	72.4	5.7	19.2	2.9	9.6
551	2.580	0.0	0.0	70.2	3.8	23.0	1.9	11.5
552	2.640	0.0	0.0	71.1	4.6	27.7	2.3	13.8
553	2.665	0.0	0.0	70.6	4.2	31.8	2.1	15.9
554	2.645	0.0	0.0	66.3	0.6	32.4	0.3	16.2
555	2.630	0.0	0.0	69.4	3.2	35.6	1.6	17.8
556	2.630	0.0	0.0	70.4	4.0	39.6	2.0	19.8
557	2.630	0.0	0.0	70.4	4.0	43.6	2.0	21.8
558	2.570	0.0	0.0	69.1	2.9	46.6	1.5	23.3

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FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
559	2.645	0.0	0.0	69.6	3.3	49.9	1.7	24.9
560	2.665	0.0	0.0	65.8	0.2	50.1	0.1	25.0
561	2.665	0.0	0.0	63.8	0.0	50.1	0.0	25.0
562	2.665	0.0	0.0	64.2	0.0	50.1	0.0	25.0
563	2.675	0.0	0.0	66.3	0.6	50.7	0.3	25.4
564	2.675	0.0	0.0	66.3	0.6	51.3	0.3	25.7
565	2.645	0.0	0.0	65.9	0.3	51.6	0.1	25.8
566	2.670	0.0	0.0	65.0	0.0	51.6	0.0	25.8
567	2.695	0.0	0.0	65.4	0.0	51.6	0.0	25.8
568	2.700	0.0	0.0	65.4	0.0	51.6	0.0	25.8
569	2.695	0.0	0.0	65.4	0.0	51.6	0.0	25.8
570	2.700	0.0	0.0	66.2	0.5	52.1	0.3	26.1
571	2.685	0.0	0.0	68.0	2.0	54.1	1.0	27.1
572	2.645	0.0	0.0	69.2	3.0	57.1	1.5	28.6
573	2.625	0.0	0.0	70.1	3.8	60.9	1.9	30.5
574	2.605	0.0	0.0	69.7	3.4	64.3	1.7	32.2
575	2.625	0.0	0.0	69.7	3.4	67.7	1.7	33.9
576	2.680	0.0	0.0	70.2	3.8	71.6	1.9	35.8
577	2.685	0.0	0.0	67.6	1.7	73.3	0.8	36.6
578	2.660	0.0	0.0	66.7	0.9	74.2	0.5	37.1
579	2.630	0.0	0.0	68.9	2.7	76.9	1.4	38.5
580	2.620	0.0	0.0	70.7	4.3	81.2	2.1	40.6
581	2.595	0.0	0.0	72.4	5.7	86.9	2.9	43.5
582	2.555	0.0	0.0	73.7	6.9	93.8	3.4	46.9
583	2.595	0.0	0.0	73.4	6.6	100.4	3.3	50.2
584	2.620	0.0	0.0	72.0	5.4	105.8	2.7	52.9
585	2.610	0.0	0.0	78.5	11.2	117.0	5.6	58.5
586	2.570	0.0	0.0	79.3	11.9	128.9	6.0	64.5
587	2.495	1.6	1.6	75.1	8.1	137.0	4.8	69.3
588	2.445	5.1	6.7	76.0	8.9	145.9	7.0	76.3
589	2.625	0.0	6.7	75.5	8.5	154.4	4.2	80.5
590	2.650	0.0	6.7	72.1	5.5	159.9	2.7	83.3
591	2.640	0.0	6.7	67.8	1.8	161.7	0.9	84.2
592	2.630	0.0	6.7	69.9	3.6	165.3	1.8	86.0
593	2.615	0.0	6.7	71.6	5.0	170.3	2.5	88.5
594	2.580	0.0	6.7	72.1	5.5	175.8	2.7	91.2
595	2.535	0.0	6.7	72.9	6.2	181.9	3.1	94.3
596	2.585	0.0	6.7	72.1	5.5	187.4	2.7	97.0
597	2.600	0.0	6.7	72.5	5.8	193.2	2.9	99.9
598	2.570	0.0	6.7	76.8	9.6	202.9	4.8	104.8
599	2.530	0.0	6.7	76.8	9.6	212.5	4.8	109.6
600	2.475	3.0	9.7	74.7	7.7	220.2	5.4	114.9
601	2.515	0.2	9.9	75.1	8.1	228.3	4.2	119.1
602	2.625	0.0	9.9	74.7	7.7	236.1	3.9	123.0
603	2.620	0.0	9.9	71.2	4.7	240.8	2.3	125.3
604	2.600	0.0	9.9	67.3	1.4	242.2	0.7	126.0
605	2.590	0.0	9.9	67.8	1.8	244.0	0.9	127.0
606	2.575	0.0	9.9	70.8	4.4	248.4	2.2	129.1
607	2.550	0.0	9.9	73.0	6.2	254.6	3.1	133.3
608	2.520	0.0	9.9	73.8	7.0	261.6	3.5	136.7

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FOR

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DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
609	2.515	0.2	10.1	75.6	8.6	270.1	4.4	140.1
610	2.555	0.0	10.1	75.6	8.6	278.7	4.3	144.4
611	2.565	0.0	10.1	73.0	6.2	284.9	3.1	147.5
612	2.565	0.0	10.1	69.2	3.0	287.9	1.5	149.0
613	2.590	0.0	10.1	69.6	3.3	291.3	1.7	150.7
614	2.595	0.0	10.1	68.7	2.6	293.9	1.3	152.0
615	2.600	0.0	10.1	68.7	2.6	296.4	1.3	153.3
616	2.565	0.0	10.1	67.9	1.9	298.4	1.0	154.2
617	2.565	0.0	10.1	70.5	4.1	302.5	2.0	156.3
618	2.575	0.0	10.1	73.9	7.0	309.5	3.5	159.8
619	2.575	0.0	10.1	76.9	9.7	319.2	4.9	164.7
620	2.570	0.0	10.1	79.5	12.1	331.3	6.1	170.7
621	2.555	0.0	10.1	80.8	13.3	344.7	6.7	177.4
622	2.550	0.0	10.1	80.8	13.3	358.0	6.7	184.1
623	2.555	0.0	10.1	77.8	10.6	368.6	5.3	189.3
624	2.565	0.0	10.1	78.2	10.9	379.5	5.5	194.8
625	2.555	0.0	10.1	79.9	12.5	392.0	6.3	201.1
626	2.540	0.0	10.1	79.5	12.1	404.1	6.1	207.1
627	2.510	0.6	10.6	79.9	12.5	416.6	6.5	213.6
628	2.495	1.6	12.2	80.4	13.0	429.6	7.3	220.9
629	2.480	2.6	14.9	89.0	21.4	451.0	12.0	233.0
630	2.430	6.2	21.0	89.5	21.9	473.0	14.1	247.0
631	2.400	8.3	29.4	92.5	25.1	498.1	16.7	263.7
632	2.415	7.3	36.6	94.6	27.3	525.4	17.3	281.0
633	2.415	7.3	43.9	94.6	27.3	552.7	17.3	298.3
634	2.420	6.9	50.8	90.8	23.3	576.0	15.1	313.4
635	2.510	0.6	51.3	86.9	19.3	595.3	9.9	323.3
636	2.575	0.0	51.3	83.4	15.8	611.1	7.9	331.2
637	2.615	0.0	51.3	80.8	13.3	624.4	6.7	337.9
638	2.625	0.0	51.3	77.8	10.6	635.0	5.3	343.2
639	2.630	0.0	51.3	75.6	8.6	643.5	4.3	347.4
640	2.605	0.0	51.3	73.9	7.0	650.6	3.5	351.0
641	2.625	0.0	51.3	73.0	6.2	656.8	3.1	354.1
642	2.590	0.0	51.3	78.7	11.4	668.2	5.7	359.8
643	2.565	0.0	51.3	80.0	12.6	680.8	6.3	366.1
644	2.465	3.7	55.0	79.1	11.8	692.6	7.7	373.8
645	2.445	5.1	60.1	79.6	12.2	704.8	8.7	382.4
646	2.560	0.0	60.1	80.4	13.0	717.8	6.5	388.9
647	2.650	0.0	60.1	80.5	13.1	730.8	6.5	395.5
648	2.670	0.0	60.1	76.6	9.5	740.3	4.7	400.2
649	2.670	0.0	60.1	74.1	7.2	747.5	3.6	403.8
650	2.635	0.0	60.1	73.3	6.5	754.0	3.3	407.0
651	2.605	0.0	60.1	73.0	6.2	760.2	3.1	410.2
652	2.650	0.0	60.1	75.2	8.2	768.4	4.1	414.3
653	2.660	0.0	60.1	75.7	8.6	777.1	4.3	418.6
654	2.610	0.0	60.1	74.0	7.1	784.2	3.6	422.1
655	2.600	0.0	60.1	73.8	6.7	792.9	4.4	426.5
656	2.600	0.0	60.1	79.3	11.9	804.9	6.0	432.5
657	2.600	0.0	60.1	79.0	11.7	816.5	5.8	438.3
658	2.600	1.9	62.0	76.6	11.3	827.8	6.6	444.9

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

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOC	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
659	2.550	0.0	62.0	79.9	12.5	840.3	6.3	451.2
660	2.605	0.0	62.0	80.7	13.3	853.6	6.6	457.8
661	2.605	0.0	62.0	76.9	9.7	863.3	4.9	462.7
662	2.605	0.0	62.0	75.6	8.6	871.9	4.3	466.9
663	2.595	0.0	62.0	80.3	12.9	884.7	6.4	473.4
664	2.570	0.0	62.0	80.3	12.9	897.6	6.4	479.8
665	2.515	0.2	62.2	79.4	12.0	909.6	6.1	485.9
666	2.450	4.7	67.0	77.7	10.5	920.1	7.6	493.5
667	2.555	0.0	67.0	77.3	10.1	930.2	5.0	498.6
668	2.585	0.0	67.0	76.9	9.7	939.9	4.9	503.4
669	2.585	0.0	67.0	75.1	8.1	948.0	4.1	507.5
670	2.570	0.0	67.0	78.2	10.9	958.9	5.5	513.0
671	2.520	0.0	67.0	78.2	10.9	969.9	5.5	518.4
672	2.415	7.3	74.2	76.4	9.3	979.1	8.3	526.7
673	2.475	3.0	77.2	79.4	12.0	991.2	7.5	534.2
674	2.565	0.0	77.2	82.0	14.5	1005.7	7.2	541.4
675	2.540	0.0	77.2	79.0	11.7	1017.3	5.8	547.3
676	2.495	1.6	78.8	85.0	17.4	1034.7	9.5	556.8
677	2.435	5.8	84.6	86.3	18.7	1053.4	12.3	569.0
678	2.345	12.5	97.0	84.2	16.6	1070.1	14.5	583.6
679	2.360	11.3	108.4	82.5	15.0	1085.0	13.1	596.7
680	2.565	0.0	108.4	77.7	10.5	1095.5	5.2	601.9
681	2.625	0.0	108.4	72.1	5.5	1101.0	2.7	604.7
682	2.630	0.0	108.4	68.7	2.6	1103.5	1.3	606.0
683	2.640	0.0	108.4	69.5	3.3	1106.8	1.6	607.6
684	2.630	0.0	108.4	69.5	3.3	1110.0	1.6	609.2
685	2.575	0.0	108.4	71.7	5.1	1115.2	2.6	611.8
686	2.540	0.0	108.4	71.7	5.1	1120.3	2.6	614.3
687	2.535	0.0	108.4	71.3	4.8	1125.1	2.4	616.7
688	2.535	0.0	108.4	73.4	6.6	1131.7	3.3	620.0
689	2.535	0.0	108.4	78.2	10.9	1142.6	5.5	625.5
690	2.500	1.2	109.6	81.6	14.1	1156.7	7.7	633.1
691	2.390	9.1	118.7	82.5	15.0	1171.7	12.0	645.3
692	2.350	12.1	130.8	83.8	16.2	1187.9	14.2	659.5
693	2.530	0.0	130.8	83.8	16.2	1204.1	8.1	667.7
694	2.600	0.0	130.8	78.6	11.3	1215.4	5.6	673.3
695	2.615	0.0	130.8	73.0	6.2	1221.7	3.1	676.6
696	2.615	0.0	130.8	77.3	10.1	1231.8	5.0	681.1
697	2.565	0.0	130.8	77.7	10.5	1242.2	5.2	686.6
698	2.455	4.4	135.2	76.0	8.9	1251.1	6.6	693.3
699	2.470	3.3	138.5	76.0	8.9	1260.0	6.1	699.9
700	2.550	0.0	138.5	76.0	8.9	1268.9	4.5	703.3
701	2.535	0.0	138.5	71.7	5.1	1274.1	2.6	706.6
702	2.530	0.0	138.5	73.8	7.0	1281.0	3.5	709.9
703	2.505	0.9	139.4	73.8	7.0	1288.0	3.9	713.3
704	2.485	2.3	141.7	72.1	5.5	1293.4	3.9	717.7
705	2.520	0.0	141.7	71.7	5.1	1298.6	2.6	720.0
706	2.560	0.0	141.7	71.7	5.1	1303.7	2.6	722.2
707	2.585	0.0	141.7	70.0	3.7	1307.3	1.8	724.4
708	2.585	0.0	141.7	66.5	0.8	1308.1	0.4	726.6

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	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
709	2.590	0.0	141.7	69.5	3.3	1311.4	1.6	726.5
710	2.590	0.0	141.7	71.7	5.1	1316.5	2.6	729.1
711	2.560	0.0	141.7	71.3	4.8	1321.3	2.4	731.5
712	2.520	0.0	141.7	70.4	4.0	1325.3	2.0	733.5
713	2.530	0.0	141.7	70.8	4.4	1329.6	2.2	735.6
714	2.585	0.0	141.7	69.1	2.9	1332.5	1.5	737.1
715	2.600	0.0	141.7	67.4	1.5	1334.1	0.8	737.9
716	2.600	0.0	141.7	65.2	0.0	1334.1	0.0	737.9
717	2.600	0.0	141.7	64.8	0.0	1334.1	0.0	737.9
718	2.600	0.0	141.7	66.5	0.8	1334.8	0.4	738.2
719	2.600	0.0	141.7	66.5	0.8	1335.6	0.4	738.6
720	2.600	0.0	141.7	67.0	1.2	1336.8	0.6	739.2
721	2.595	0.0	141.7	66.5	0.8	1337.6	0.4	739.6
722	2.580	0.0	141.7	67.0	1.2	1338.7	0.6	740.2
723	2.585	0.0	141.7	67.4	1.5	1340.3	0.8	741.0
724	2.585	0.0	141.7	67.4	1.5	1341.8	0.8	741.7
725	2.585	0.0	141.7	68.7	2.6	1344.3	1.3	743.0
726	2.590	0.0	141.7	71.3	4.8	1349.1	2.4	745.4
727	2.580	0.0	141.7	70.8	4.4	1353.5	2.2	747.6
728	2.535	0.0	141.7	70.4	4.0	1357.5	2.0	749.6
729	2.545	0.0	141.7	69.5	3.3	1360.7	1.6	751.2
730	2.590	0.0	141.7	68.7	2.6	1363.3	1.3	752.5
731	2.610	0.0	141.7	68.2	2.2	1365.5	1.1	753.6
732	2.635	0.0	141.7	69.5	3.3	1368.7	1.6	755.2
733	2.635	0.0	141.7	69.5	3.3	1372.0	1.6	756.8
734	2.560	0.0	141.7	69.1	2.9	1374.9	1.5	758.3
735	2.530	0.0	141.7	69.5	3.3	1378.1	1.6	759.9
736	2.580	0.0	141.7	70.8	4.4	1382.5	2.2	762.1
737	2.585	0.0	141.7	70.4	4.0	1386.5	2.0	764.1
738	2.565	0.0	141.7	69.5	3.3	1389.8	1.6	765.7
739	2.535	0.0	141.7	68.7	2.6	1392.3	1.3	767.0
740	2.460	4.0	145.7	70.0	3.7	1396.0	3.9	770.8
741	2.395	8.7	154.4	70.4	4.0	1400.0	6.4	777.2
742	2.420	6.9	161.3	70.0	3.7	1403.7	5.3	782.5
743	2.510	0.6	161.8	67.8	1.8	1405.5	1.2	783.7
744	2.565	0.0	161.8	69.0	2.8	1408.4	1.4	785.1
745	2.580	0.0	161.8	72.1	5.5	1413.8	2.7	787.8
746	2.510	0.6	162.4	73.4	6.6	1420.4	3.6	791.4
747	2.515	0.2	162.6	75.5	8.5	1428.9	4.3	795.7
748	2.510	0.6	163.2	77.2	10.0	1438.9	5.3	801.0
749	2.510	0.6	163.7	75.0	8.0	1446.9	4.3	805.3
750	2.560	0.0	163.7	72.0	5.4	1452.3	2.7	808.0
751	2.605	0.0	163.7	70.3	3.9	1456.2	2.0	810.0
752	2.615	0.0	163.7	66.8	1.0	1457.2	0.5	810.5
753	2.615	0.0	163.7	67.3	1.4	1458.7	0.7	811.2
754	2.590	0.0	163.7	68.1	2.1	1460.7	1.0	812.2
755	2.575	0.0	163.7	67.3	1.4	1462.2	0.7	812.9
756	2.590	0.0	163.7	68.1	2.1	1464.3	1.0	814.0
757	2.590	0.0	163.7	68.6	2.5	1466.7	1.2	815.2
758	2.590	0.0	163.7	69.4	3.2	1469.9	1.6	816.8

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

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
759	2.620	0.0	163.7	70.7	4.3	1474.2	2.1	819.0
760	2.575	0.0	163.7	70.7	4.3	1478.4	2.1	821.1
761	2.540	0.0	163.7	71.1	4.6	1483.1	2.3	823.4
762	2.515	0.2	164.0	70.3	3.9	1487.0	2.1	825.5
763	2.520	0.0	164.0	73.3	6.5	1493.5	3.3	828.7
764	2.530	0.0	164.0	77.6	10.4	1503.9	5.2	833.9
765	2.490	1.9	165.9	78.5	11.2	1515.1	6.6	840.5
766	2.385	9.5	175.3	79.3	11.9	1527.0	10.7	851.2
767	2.310	15.2	190.5	80.2	12.8	1539.8	14.0	865.1
768	2.445	5.1	195.6	80.2	12.8	1552.6	8.9	874.1
769	2.525	0.0	195.6	75.9	8.8	1561.4	4.4	878.5
770	2.530	0.0	195.6	74.2	7.3	1568.7	3.7	882.1
771	2.490	1.9	197.5	79.3	11.9	1580.6	6.9	889.1
772	2.445	5.1	202.6	80.6	13.2	1593.8	9.1	898.2
773	2.385	9.5	212.1	80.6	13.2	1606.9	11.3	909.5
774	2.370	10.6	222.6	84.5	16.9	1623.9	13.7	923.2
775	2.470	3.3	226.0	86.2	18.6	1642.5	11.0	934.2
776	2.435	5.8	231.8	80.6	13.2	1655.6	9.5	943.7
777	2.365	10.9	242.7	77.2	10.0	1665.6	10.5	954.2
778	2.510	0.6	243.3	77.2	10.0	1675.6	5.3	959.4
779	2.590	0.0	243.3	74.6	7.7	1683.3	3.8	963.3
780	2.570	0.0	243.3	67.7	1.8	1685.0	0.9	964.1
781	2.560	0.0	243.3	64.7	0.0	1685.0	0.0	964.1
782	2.565	0.0	243.3	62.6	0.0	1685.0	0.0	964.1
783	2.580	0.0	243.3	64.3	0.0	1685.0	0.0	964.1
784	2.645	0.0	243.3	63.9	0.0	1685.0	0.0	964.1
785	2.675	0.0	243.3	63.5	0.0	1685.0	0.0	964.1
786	2.635	0.0	243.3	62.2	0.0	1685.0	0.0	964.1
787	2.620	0.0	243.3	67.0	1.2	1686.2	0.6	964.7
788	2.610	0.0	243.3	70.8	4.4	1690.6	2.2	966.9
789	2.565	0.0	243.3	75.1	8.1	1698.7	4.1	971.0
790	2.500	1.2	244.5	82.0	14.5	1713.2	7.9	978.8
791	2.470	3.3	247.8	85.9	18.3	1731.5	10.8	989.6
792	2.395	8.7	256.5	86.8	19.2	1750.7	14.0	1003.6
793	2.320	14.4	270.9	85.0	17.4	1768.1	15.9	1019.5
794	2.455	4.4	275.3	87.2	19.6	1787.7	12.0	1031.5
795	2.470	3.3	278.6	84.2	16.6	1804.3	10.0	1041.5
796	2.435	5.8	284.4	86.3	18.7	1823.0	12.3	1053.7
797	2.360	11.3	295.8	86.0	18.4	1841.4	14.9	1068.6
798	2.285	17.1	312.9	89.0	21.4	1862.8	19.3	1087.8
799	2.250	19.9	332.8	94.6	27.3	1890.1	23.6	1111.5
800	2.255	19.5	352.3	98.9	32.0	1922.1	25.8	1137.2
801	2.205	23.7	376.0	102.0	35.5	1957.7	29.6	1166.8
802	2.155	27.9	403.9	100.3	33.6	1991.2	30.8	1197.6
803	2.205	23.7	427.6	97.7	30.7	2021.9	27.2	1224.7
804	2.290	9.1	436.7	88.2	20.6	2042.5	14.8	1239.6
805	2.470	3.3	440.0	82.1	14.6	2057.1	9.0	1248.5
806	2.490	1.9	441.6	80.0	12.6	2066.7	7.3	1255.8
807	2.510	0.6	443.5	78.3	11.0	2080.7	5.8	1261.6
808	2.480	2.6	445.1	77.8	10.6	2091.3	6.6	1268.2

KEROGEN ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOC	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YI
809	2.510	0.6	445.7	75.2	8.2	2099.5	4.4	1272.4
810	2.530	0.0	445.7	74.8	7.8	2107.3	3.9	1276.4
811	2.520	0.0	445.7	72.2	5.6	2112.8	2.8	1279.4
812	2.490	1.9	447.6	68.8	2.7	2115.5	2.3	1281.4
813	2.505	0.9	448.5	69.2	3.0	2118.5	1.9	1283.4
814	2.510	0.6	449.1	74.9	7.9	2126.4	4.2	1287.4
815	2.420	6.9	455.9	81.8	14.3	2140.7	10.6	1298.4
816	2.325	14.0	469.9	85.2	17.6	2158.3	15.8	1314.4
817	2.195	24.5	494.4	88.7	21.1	2179.5	22.8	1336.4
818	2.205	23.7	518.1	93.8	26.4	2205.9	25.1	1362.4
819	2.345	12.5	530.5	97.3	30.2	2236.2	21.3	1383.4
820	2.315	14.8	545.3	95.1	27.8	2264.0	21.3	1404.4
821	2.215	22.8	568.1	102.1	35.6	2299.6	29.2	1433.4
822	2.140	29.2	597.4	110.7	45.8	2345.4	37.5	1471.4
823	2.045	37.9	635.3	118.9	56.1	2401.4	47.0	1518.4
824	1.955	46.8	682.1	126.3	65.8	2467.3	56.3	1574.4
825	1.875	55.2	737.3	134.1	76.7	2544.0	65.9	1640.4
826	1.805	63.1	800.4	133.4	78.5	2622.5	70.8	1711.4
827	1.745	70.2	870.6	134.5	77.2	2699.7	73.7	1785.4
828	1.795	64.2	934.8	130.6	71.7	2771.4	68.0	1853.4
829	1.955	46.8	981.6	116.3	52.7	2824.2	49.8	1902.4
830	2.020	40.3	1021.9	103.0	39.0	2863.1	39.6	1942.4
831	2.015	40.8	1062.7	100.7	34.0	2897.2	37.4	1979.4
832	2.150	28.4	1091.1	96.8	29.7	2926.9	29.0	2009.4
833	2.375	10.2	1101.3	92.5	25.1	2951.9	17.6	2026.4
834	2.325	14.0	1115.3	86.9	19.3	2971.2	16.6	2043.4
835	2.305	15.5	1130.8	85.6	18.0	2989.2	16.8	2060.4
836	2.265	18.7	1149.5	92.1	24.6	3013.9	21.7	2081.4
837	2.315	14.8	1164.3	101.1	34.5	3048.4	24.6	2106.4
838	2.250	19.9	1184.2	102.9	36.5	3084.9	28.2	2134.4
839	2.125	30.6	1214.8	103.3	37.0	3121.9	33.8	2168.4
840	2.040	38.4	1253.2	105.6	40.0	3161.9	39.2	2207.4
841	2.125	30.6	1283.8	106.8	41.1	3203.0	35.8	2243.4
842	2.200	24.1	1307.9	100.3	33.6	3236.6	28.8	2272.4
843	2.295	16.3	1324.2	93.0	25.6	3262.2	21.0	2293.4
844	2.270	18.3	1342.5	87.8	20.2	3282.4	19.3	2312.4
845	2.270	18.3	1360.8	88.7	21.1	3303.5	19.7	2332.4
846	2.395	8.7	1369.6	92.5	25.1	3328.6	16.9	2349.4
847	2.400	8.2	1377.9	90.3	22.8	3351.3	15.6	2364.4
848	2.365	10.9	1388.8	89.0	21.4	3372.8	16.2	2380.4
849	2.285	17.1	1406.0	89.1	21.5	3394.3	19.3	2400.4
850	2.295	19.5	1423.5	88.7	21.1	3415.4	20.3	2420.4
851	2.410	7.6	1433.1	86.9	19.3	3434.7	13.5	2433.4
852	2.460	4.0	1437.7	83.9	16.3	3451.1	10.2	2444.4
853	2.450	4.1	1442.2	81.7	14.2	3465.3	9.6	2453.4
854	2.450	4.1	1443.0	80.2	13.6	3482.4	13.0	2466.4
855	2.450	4.1	1443.0	80.6	13.0	3503.9	17.3	2484.4
856	2.450	4.1	1443.0	80.6	13.0	3503.9	22.8	2506.4
857	2.450	4.1	1443.0	80.6	13.0	3503.9	23.1	2530.4
858	2.450	4.1	1443.0	80.6	13.0	3503.9	23.0	2550.4

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

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
909	2.510	0.6	1682.5	61.8	0.0	3960.7	0.3	2821.6
910	2.530	0.0	1682.5	61.4	0.0	3960.7	0.0	2821.6
911	2.545	0.0	1682.5	61.4	0.0	3960.7	0.0	2821.6
912	2.575	0.0	1682.5	60.5	0.0	3960.7	0.0	2821.6
913	2.555	0.0	1682.5	59.6	0.0	3960.7	0.0	2821.6
914	2.565	0.0	1682.5	60.0	0.0	3960.7	0.0	2821.6
915	2.585	0.0	1682.5	60.5	0.0	3960.7	0.0	2821.6
916	2.610	0.0	1682.5	60.0	0.0	3960.7	0.0	2821.6
917	2.615	0.0	1682.5	59.6	0.0	3960.7	0.0	2821.6
918	2.625	0.0	1682.5	59.6	0.0	3960.7	0.0	2821.6
919	2.625	0.0	1682.5	59.2	0.0	3960.7	0.0	2821.6
920	2.625	0.0	1682.5	59.2	0.0	3960.7	0.0	2821.6
921	2.630	0.0	1682.5	59.2	0.0	3960.7	0.0	2821.6
922	2.635	0.0	1682.5	59.2	0.0	3960.7	0.0	2821.6
923	2.610	0.0	1682.5	59.2	0.0	3960.7	0.0	2821.6
924	2.585	0.0	1682.5	59.2	0.0	3960.7	0.0	2821.6
925	2.590	0.0	1682.5	59.6	0.0	3960.7	0.0	2821.6
926	2.615	0.0	1682.5	59.6	0.0	3960.7	0.0	2821.6
927	2.610	0.0	1682.5	60.0	0.0	3960.7	0.0	2821.6
928	2.600	0.0	1682.5	60.0	0.0	3960.7	0.0	2821.6
929	2.595	0.0	1682.5	59.6	0.0	3960.7	0.0	2821.6

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

FOR

THE CLEVELAND CLIFFS IRON COMPANY-WELL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
859	2.320	14.4	1533.2	98.2	31.2	3618.3	22.8	2575.8
860	2.285	17.1	1550.3	95.1	27.8	3646.2	22.5	2598.2
861	2.260	19.1	1569.5	93.0	25.6	3671.8	22.4	2620.6
862	2.375	10.2	1579.7	90.8	23.3	3695.1	16.7	2637.3
863	2.460	4.0	1583.7	86.9	19.3	3714.4	11.7	2649.0
864	2.490	1.9	1585.6	82.6	15.1	3729.4	8.5	2657.5
865	2.495	1.6	1587.2	82.6	15.1	3744.5	8.3	2665.8
866	2.490	1.9	1589.1	80.9	13.4	3757.9	7.7	2673.5
867	2.450	4.7	1593.9	78.3	11.0	3768.9	7.9	2681.4
868	2.460	4.0	1597.9	76.5	9.4	3778.3	6.7	2688.1
869	2.535	0.0	1597.9	74.4	7.5	3785.8	3.7	2691.8
870	2.555	0.0	1597.9	73.5	6.7	3792.5	3.3	2695.2
871	2.530	0.0	1597.9	69.7	3.4	3795.9	1.7	2696.9
872	2.530	0.0	1597.9	68.4	2.3	3798.2	1.2	2698.1
873	2.520	0.0	1597.9	70.1	3.8	3802.0	1.9	2699.9
874	2.490	1.9	1599.8	70.5	4.1	3806.1	3.0	2702.9
875	2.495	1.6	1601.4	70.1	3.8	3809.8	2.7	2705.6
876	2.480	2.6	1604.0	70.0	3.7	3817.0	4.9	2710.5
877	2.415	7.3	1611.3	77.0	9.8	3826.8	8.5	2719.0
878	2.360	11.3	1622.6	74.8	7.8	3834.6	9.6	2728.6
879	2.480	2.6	1625.2	74.4	7.5	3842.1	5.1	2733.7
880	2.495	1.6	1626.8	80.0	12.6	3854.7	7.1	2740.8
881	2.415	7.3	1634.1	82.1	14.6	3869.3	10.9	2751.7
882	2.305	15.5	1649.6	79.1	11.8	3881.0	13.6	2765.3
883	2.365	10.9	1660.6	80.0	12.6	3893.6	11.8	2777.1
884	2.515	0.2	1660.8	80.0	12.6	3906.2	6.4	2783.5
885	2.545	0.0	1660.8	76.2	9.1	3915.3	4.5	2788.0
886	2.545	0.0	1660.8	70.1	3.8	3919.1	1.9	2789.9
887	2.525	0.0	1660.8	67.6	1.7	3920.7	0.8	2790.8
888	2.490	1.9	1662.7	71.4	4.9	3925.6	3.4	2794.2
889	2.425	6.5	1669.2	71.0	4.5	3930.1	5.5	2799.7
890	2.375	10.2	1679.4	73.6	6.8	3936.9	8.5	2808.2
891	2.490	1.9	1681.4	75.4	8.4	3945.3	5.2	2813.3
892	2.560	0.0	1681.4	73.3	6.5	3951.8	3.3	2816.6
893	2.610	0.0	1681.4	72.0	5.4	3957.2	2.7	2819.3
894	2.630	0.0	1681.4	69.4	3.2	3960.3	1.6	2820.8
895	2.630	0.0	1681.4	66.0	0.4	3960.7	0.2	2821.0
896	2.670	0.0	1681.4	63.1	0.0	3960.7	0.0	2821.0
897	2.680	0.0	1681.4	62.6	0.0	3960.7	0.0	2821.0
898	2.650	0.0	1681.4	62.6	0.0	3960.7	0.0	2821.0
899	2.640	0.0	1681.4	62.6	0.0	3960.7	0.0	2821.0
900	2.640	0.0	1681.4	63.5	0.0	3960.7	0.0	2821.0
901	2.635	0.0	1681.4	64.4	0.0	3960.7	0.0	2821.0
902	2.630	0.0	1681.4	64.0	0.0	3960.7	0.0	2821.0
903	2.625	0.0	1681.4	63.5	0.0	3960.7	0.0	2821.0
904	2.610	0.0	1681.4	63.9	0.0	3960.7	0.0	2821.0
905	2.585	0.0	1681.4	63.5	0.0	3960.7	0.0	2821.0
906	2.550	0.0	1681.4	61.4	0.0	3960.7	0.0	2821.0
907	2.530	0.0	1681.4	61.8	0.0	3960.7	0.0	2821.0
908	2.510	0.6	1681.5	61.8	0.0	3960.7	0.3	2821.3