

# CORRECTION ANALYSIS

-F08-

-B- CLEVELAND OIL FOS 1075 COMPANY WELLS 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	2.650	0.0	0.0	2.603	0.0	0.0	0.0	0.0
510	2.650	0.0	0.0	2.603	0.0	0.0	0.0	0.0
511	2.650	0.0	0.0	2.603	0.0	0.0	0.0	0.0
512	2.620	0.0	0.0	2.624	0.0	0.0	0.0	0.0
513	2.600	0.0	0.0	2.615	0.0	0.0	0.0	0.0
514	2.600	0.0	0.0	2.605	0.0	0.0	0.0	0.0
515	2.600	0.0	0.0	2.607	0.0	0.0	0.0	0.0
516	2.600	0.0	0.0	2.603	0.0	0.0	0.0	0.0
517	2.600	2.7	2.7	2.603	0.0	0.0	1.4	1.4
518	2.600	0.0	2.7	2.600	0.0	0.0	0.0	1.4
519	2.640	0.0	2.7	2.606	0.0	0.0	0.0	1.4
520	2.640	0.0	2.7	2.609	0.0	0.0	0.0	1.4
521	2.615	0.0	2.7	2.608	0.0	0.0	0.0	1.4
522	2.620	0.0	2.7	2.604	0.0	0.0	0.0	1.4
523	2.640	0.0	2.7	2.603	0.0	0.0	0.0	1.4
524	2.640	0.0	2.7	2.608	0.0	0.0	0.0	1.4
525	2.650	0.0	2.7	2.608	0.0	0.0	0.0	1.4
526	2.680	0.0	2.7	2.595	0.0	0.0	0.0	1.4
527	2.685	0.0	2.7		0.0	0.0	0.0	1.4
528	2.665	0.0	2.7		0.0	0.0	0.0	1.4
529	2.640	0.0	2.7		0.0	0.0	0.0	1.4
530	2.635	0.0	2.7	2.555	0.0	0.0	0.0	1.4
531	2.595	0.0	2.7		0.0	0.0	0.0	1.4
532	2.550	0.4	3.2		0.0	0.0	0.2	1.6
533	2.620	0.0	3.2		0.0	0.0	0.0	1.6
534	2.660	0.0	3.2	2.590	0.0	0.0	0.0	1.6
535	2.670	0.0	3.2	2.607	0.0	0.0	0.0	1.6
536	2.680	0.0	3.2	2.620	0.0	0.0	0.0	1.6
537	2.680	0.0	3.2	2.616	0.0	0.0	0.0	1.6
538	2.685	0.0	3.2	2.607	0.0	0.0	0.0	1.6
539	2.695	0.0	3.2	2.607	0.0	0.0	0.0	1.6
540	2.710	0.0	3.2	2.607	0.0	0.0	0.0	1.6
541	2.710	0.0	3.2	2.594	0.0	0.0	0.0	1.6
542	2.700	0.0	3.2	2.581	0.0	0.0	0.0	1.6
543	2.695	0.0	3.2	2.581	0.0	0.0	0.0	1.6
544	2.695	0.0	3.2	2.590	0.0	0.0	0.0	1.6
545	2.680	0.0	3.2	2.586	0.0	0.0	0.0	1.6
546	2.680	0.0	3.2	2.586	0.0	0.0	0.0	1.6
547	2.680	0.0	3.2	2.608	0.0	0.0	0.0	1.6
548	2.680	0.0	3.2	2.608	0.0	0.0	0.0	1.6
549	2.680	0.0	3.2	2.647	0.0	0.0	0.4	2.0
550	2.680	0.0	3.2	2.666	4.3	5.1	2.1	7.1
551	2.680	0.0	3.2	2.666	4.3	5.1	2.1	9.2
552	2.680	0.0	3.2	2.666	4.3	5.1	2.1	11.3
553	2.680	0.0	3.2	2.666	4.3	5.1	2.1	13.4
554	2.680	0.0	3.2	2.666	4.3	5.1	2.1	15.5
555	2.680	0.0	3.2	2.666	4.3	5.1	2.1	17.6
556	2.680	0.0	3.2	2.666	4.3	5.1	2.1	19.7
557	2.680	0.0	3.2	2.666	4.3	5.1	2.1	21.8
558	2.680	0.0	3.2	2.666	4.3	5.1	2.1	23.9

# 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		4.2	2.544	1.1		19.6	0.6		11.4
560	2.665	0.0		4.2	2.544	0.0		19.6	0.0		11.4
561	2.665	0.0		4.2	2.544	0.0		19.6	0.0		11.4
562	2.665	0.0		4.2	2.544	0.0		19.6	0.0		11.4
563	2.675	0.0		4.2	2.544	0.0		19.6	0.0		11.4
564	2.675	0.0		4.2	2.544	0.0		19.6	0.0		11.4
565	2.645	0.0		4.2	2.544	0.0		19.6	0.0		11.4
566	2.670	0.0		4.2	2.544	0.0		19.6	0.0		11.4
567	2.695	0.0		4.2	2.544	0.0		19.6	0.0		11.4
568	2.700	0.0		4.2	2.544	0.0		19.6	0.0		11.4
569	2.695	0.0		4.2	2.544	0.0		19.6	0.0		11.4
570	2.700	0.0		4.2	2.544	0.0		19.6	0.0		11.4
571	2.685	0.0		4.2	2.544	0.0		19.6	0.0		11.4
572	2.645	0.0		4.2	2.544	0.7		19.3	0.3		11.7
573	2.625	0.0		4.2	2.549	1.7		21.0	0.8		12.6
574	2.605	0.0		4.2	2.543	1.2		22.2	0.6		12.2
575	2.625	0.0		4.2	2.543	1.2		23.5	0.6		12.8
576	2.680	0.0		4.2	2.543	1.8		25.3	0.9		14.7
577	2.685	0.0		4.2	2.543	0.0		25.3	0.0		14.7
578	2.660	0.0		4.2	2.543	0.0		25.3	0.0		14.7
579	2.630	0.0		4.2	2.543	0.3		25.6	0.2		14.9
580	2.620	0.0		4.2	2.543	0.4		28.0	1.2		16.1
581	2.595	0.0		4.2	2.543	0.5		32.3	2.1		19.2
582	2.555	0.0		4.2	2.543	0.5		38.0	2.9		21.1
583	2.595	0.0		4.2	2.506	5.4		43.4	2.7		23.8
584	2.620	0.0		4.2	2.520	3.8		47.2	1.9		25.7
585	2.610	0.0		4.2	2.455	11.0		56.2	5.5		31.2
586	2.570	0.0		4.2	2.447	11.9		70.1	5.9		37.1
587	2.495	6.6	10.8	2.489	7.3		77.4	6.9	6.9		44.1
588	2.445	12.1	22.9	2.480	8.3		85.7	10.2	10.2		54.3
589	2.625	0.0	22.9	2.485	7.7		93.4	3.9	3.9		58.1
590	2.650	0.0	22.9	2.519	3.9		97.3	2.0	2.0		60.1
591	2.640	0.0	22.9	2.562	0.0		97.3	0.0	0.0		60.1
592	2.630	0.0	22.9	2.541	1.5		98.8	0.7	0.7		60.9
593	2.615	0.0	22.9	2.524	3.4		102.2	1.7	1.7		62.5
594	2.580	0.0	22.9	2.519	3.9		106.1	2.0	2.0		64.5
595	2.535	2.1	25.0	2.511	4.8		111.0	3.5	3.5		68.0
596	2.585	0.0	25.0	2.516	3.9		114.9	2.0	2.0		70.0
597	2.600	0.0	25.0	2.515	4.4		119.3	2.2	2.2		71.2
598	2.600	0.0	25.0	2.472	9.2		128.5	5.6	5.6		76.8
599	2.600	0.0	25.0	2.472	9.2		137.6	5.9	5.9		82.7
600	2.475	8.8	36.6	2.493	6.8		144.5	7.8	7.8		89.5
601	2.600	0.0	41.0	2.489	7.3		151.7	9.4	9.4		96.9
602	2.600	0.0	41.0	2.528	2.9		161.5	1.5	1.5		100.0
603	2.600	0.0	41.0	2.528	2.9		161.5	0.0	0.0		100.0
604	2.600	0.0	41.0	2.528	2.9		161.5	0.0	0.0		100.0
605	2.600	0.0	41.0	2.528	2.9		161.5	0.0	0.0		100.0
606	2.600	0.0	41.0	2.528	2.9		161.5	0.0	0.0		100.0
607	2.600	0.0	41.0	2.528	2.9		161.5	0.0	0.0		100.0
608	2.600	0.0	41.0	2.528	2.9		161.5	0.0	0.0		100.0

## KEROGEN ANALYSIS

## THE CLEVELAND CLIFFS IRON COMPANY-WELL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHC-B	GAL/TON	ACCUM. YIELD	RHC-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
609	2.515	4.4	49.6	2.424	7.8	182.6	6.1	116.1
610	2.555	0.0	49.6	2.484	7.8	190.4	3.9	120.0
611	2.565	0.0	49.6	2.510	4.9	195.4	2.5	122.5
612	2.565	0.0	49.6	2.548	0.7	196.1	0.3	122.9
613	2.590	0.0	49.6	2.544	1.1	197.2	0.6	123.4
614	2.595	0.0	49.6	2.553	0.1	197.3	0.1	123.5
615	2.600	0.0	49.6	2.553	0.1	197.4	0.1	123.5
616	2.565	0.0	49.6	2.561	0.0	197.4	0.0	123.5
617	2.565	0.0	49.6	2.535	2.1	199.6	1.1	124.6
618	2.575	0.0	49.6	2.501	6.0	205.5	3.0	127.6
619	2.575	0.0	49.6	2.471	9.3	214.8	4.6	132.2
620	2.570	0.0	49.6	2.445	12.1	226.9	6.1	138.3
621	2.555	0.0	49.6	2.432	13.5	240.4	6.8	145.0
622	2.550	0.4	50.1	2.432	13.5	253.9	7.0	152.0
623	2.555	0.0	50.1	2.462	10.3	264.2	5.1	157.1
624	2.565	0.0	50.1	2.458	10.7	274.9	5.3	162.5
625	2.555	0.0	50.1	2.441	12.5	287.4	6.3	168.7
626	2.540	1.6	51.7			299.5	6.8	175.6
627	2.510	4.9	56.2			312.1	8.7	184.3
628	2.495	8.3	62.2			325.1	9.9	194.2
629	2.480	8.3	71.5			347.4	15.3	209.4
630	2.430	13.7	85.2			370.1	18.2	227.7
631	2.400	17.0	102.2			396.5	21.7	249.4
632	2.415	15.3	117.5			425.5	22.1	271.5
633	2.415	15.3	132.9	2.289	28.9	454.4	22.1	293.7
634	2.420	14.8	147.7	2.330	24.3	478.7	19.5	313.2
635	2.510	4.9	152.7	2.371	20.0	498.7	12.5	325.7
636	2.575	0.0	152.7	2.406	16.3	515.0	8.2	333.8
637	2.615	0.0	152.7	2.432	13.5	528.5	6.8	340.6
638	2.625	0.0	152.7	2.462	10.3	538.8	5.1	345.7
639	2.630	0.0	152.7	2.484	7.8	546.6	3.9	349.6
640	2.605	0.0	152.7	2.501	6.0	552.6	3.0	352.6
641	2.625	0.0	152.7	2.510	4.9	557.5	2.5	355.1
642	2.590	0.0	152.7	2.453	11.2	568.8	5.6	360.7
643	2.565	0.0	152.7	2.440	12.7	581.4	6.3	367.0
644	2.465	9.9	162.6	2.449	11.7	593.1	10.8	377.8
645	2.445	12.1	174.7	2.444	12.2	605.3	12.2	390.0
646	2.560	0.0	174.7	2.436	13.1	618.4	6.5	396.5
647	2.650	0.0	174.7	2.435	13.2	631.6	6.6	403.1
648	2.670	0.0	174.7	2.474	8.9	640.5	4.5	407.6
649	2.670	0.0	174.7	2.495	6.2	646.7	3.1	410.7
650	2.635	0.0	174.7	2.507	5.3	652.0	2.6	413.3
651	2.605	0.0	174.7	2.510	4.9	656.9	2.5	415.8
652	2.650	0.0	174.7	2.488	7.4	664.3	3.7	419.5
653	2.660	0.0	174.7	2.483	7.9	672.3	4.0	423.5
654	2.610	0.0	174.7	2.500	6.1	678.3	3.0	426.5
655	2.595	0.0	174.7	2.482	8.1	686.4	4.0	429.5
656	2.590	0.0	174.7	2.447	11.9	698.3	5.9	437.5
657	2.550	0.4	175.1	2.450	11.6	709.8	6.0	441.5
658	2.490	7.2	182.3	2.454	11.1	720.9	6.1	444.6

## KEROSENE ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON COMPANY-CELL 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
659	2.550	0.4	182.8	2.441	12.5	733.5	6.5	458.1
660	2.605	0.0	182.8	2.433	13.4	746.9	6.7	464.8
661	2.605	0.0	182.8	2.471	9.3	756.2	4.6	469.5
662	2.605	0.0	182.8	2.484	7.8	764.0	3.9	473.4
663	2.595	0.0	182.8	2.437	13.0	777.0	6.5	479.9
664	2.570	0.0	182.8	2.437	13.0	790.0	6.5	486.4
665	2.515	4.4	187.1	2.446	12.0	802.0	8.2	494.5
666	2.450	11.6	198.7	2.463	10.1	812.1	10.9	505.4
667	2.555	0.0	198.7	2.467	9.7	821.8	4.9	510.3
668	2.585	0.0	198.7	2.471	9.3	831.1	4.6	514.9
669	2.585	0.0	198.7	2.489	7.3	838.3	3.6	518.5
670	2.570	0.0	198.7	2.458	10.7	849.0	5.3	523.9
671	2.520	3.8	202.5	2.458	10.7	859.7	7.3	531.1
672	2.415	15.3	217.9	2.476	8.7	868.4	12.0	543.2
673	2.475	8.8	226.7	2.446	12.0	880.4	10.4	553.6
674	2.565	0.0	226.7	2.420	14.8	895.3	7.4	561.0
675	2.540	1.6	228.3	2.450	11.5	906.8	6.6	567.6
676	2.495	6.6	234.9	2.450	11.5	924.8	12.3	579.9
677	2.435	13.2	248.1	2.471	19.4	944.2	16.3	596.2
678	2.345	22.8	270.7	2.471	19.4	961.4	20.0	616.1
679	2.360	21.2	292.0	2.415	15.3	976.7	18.3	634.4
680	2.565	0.0	292.0	2.415	15.3	986.9	5.1	639.5
681	2.625	0.0	292.0	2.415	15.3	990.8	2.0	641.4
682	2.630	0.0	292.0	2.415	15.3	998.9	0.1	641.5
683	2.640	0.0	292.0	2.545	1.0	992.0	0.5	642.0
684	2.630	0.0	292.0	2.545	1.0	993.0	0.5	642.5
685	2.575	0.0	292.0	2.523	3.5	996.5	1.7	644.3
686	2.540	1.6	293.6	2.523	3.5	1000.0	2.5	646.8
687	2.535	2.1	295.8	2.527	3.0	1003.0	2.6	649.4
688	2.535	2.1	297.9	2.506	5.4	1008.4	3.8	653.2
689	2.535	2.1	300.1	2.458	10.7	1019.1	6.4	659.6
690	2.500	6.1	306.1	2.424	14.4	1033.5	10.2	669.8
691	2.390	18.0	324.1	2.415	15.3	1048.8	16.7	686.5
692	2.350	22.2	346.4	2.402	16.7	1065.6	19.5	706.0
693	2.530	2.7	349.1	2.402	16.7	1082.3	9.7	715.7
694	2.600	0.0	349.1	2.454	11.1	1093.4	5.6	721.3
695	2.615	0.0	349.1	2.510	4.9	1098.4	2.5	723.7
696	2.615	0.0	349.1	2.467	9.7	1108.1	4.9	728.6
697	2.565	0.0	349.1	2.463	10.1	1118.2	5.1	732.7
698	2.455	11.0	360.1	2.480	8.3	1126.5	9.6	743.3
699	2.470	9.4	369.5	2.480	8.3	1134.8	8.8	753.1
700	2.550	0.4	369.9	2.480	8.3	1143.1	4.4	759.5
701	2.525	2.1	372.1	2.523	3.5	1146.5	2.8	761.3
702	2.530	2.7	374.8	2.502	5.8	1152.4	4.3	769.6
703	2.505	5.5	380.3	2.502	5.8	1158.2	5.7	776.2
704	2.485	7.7	388.0	2.519	3.9	1162.2	5.8	777.1
705	2.520	3.8	391.8	2.523	3.5	1165.7	3.7	777.7
706	2.540	0.0	391.8	2.523	3.5	1169.2	1.7	777.7
707	2.540	0.0	391.8	2.540	1.6	1170.7	0.8	777.7
708	2.540	0.0	391.8	2.575	0.0	1170.7	0.0	777.7

# THE OIL FIELD LOG COMPANY-REEL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-P	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	CAL/TON	ACCUM. YIELD
709	2.590	0.0	398.4	2.595	1.0	1171.8	0.5	781.8
710	2.590	0.0	398.4	2.595	1.0	1171.8	1.7	783.5
711	2.590	0.0	398.4	2.595	1.0	1171.8	1.5	785.1
712	2.590	0.0	398.4	2.595	1.0	1171.8	2.9	786.0
713	2.590	2.7	398.4	2.595	1.0	1171.8	2.6	786.6
714	2.590	0.0	398.4	2.595	1.0	1171.8	0.3	790.9
715	2.590	0.0	398.4	2.595	1.0	1171.8	0.0	790.9
716	2.590	0.0	398.4	2.595	1.0	1171.8	0.0	790.9
717	2.590	0.0	398.4	2.595	1.0	1171.8	0.0	790.9
718	2.590	0.0	398.4	2.595	1.0	1171.8	0.0	790.9
719	2.590	0.0	398.4	2.595	1.0	1171.8	0.0	790.9
720	2.590	0.0	398.4	2.595	1.0	1171.8	0.0	790.9
721	2.595	0.0	398.4	2.595	1.0	1171.8	0.0	790.9
722	2.580	0.0	398.4	2.570	0.0	1183.4	0.0	790.9
723	2.585	0.0	398.4	2.566	0.0	1183.4	0.0	790.9
724	2.585	0.0	398.4	2.566	0.0	1183.4	0.0	790.9
725	2.585	0.0	398.4	2.553	0.1	1183.4	0.1	790.9
726	2.590	0.0	398.4	2.527	1.0	1183.4	1.5	792.4
727	2.580	0.0	398.4			1189.0	1.2	793.7
728	2.535	2.1	400.5		2.0	1191.0	2.1	795.8
729	2.545	2.0	401.5		2.0	1192.1	1.0	796.8
730	2.590	0.0	401.5	2.553	0.1	1192.2	0.1	796.8
731	2.610	0.0	401.5		0.0	1192.2	0.0	796.8
732	2.635	0.0	401.5		1.0	1193.2	0.5	797.4
733	2.635	0.0	401.5		1.0	1194.2	0.5	797.9
734	2.560	0.0	401.5	2.549	0.6	1194.8	0.3	799.1
735	2.530	2.7	404.2	2.545	1.0	1195.8	1.9	800.0
736	2.580	0.0	404.2	2.532	2.5	1198.3	1.2	801.2
737	2.585	0.0	404.2	2.536	2.0	1200.3	1.0	802.3
738	2.565	0.0	404.2	2.545	1.0	1201.3	0.5	802.8
739	2.535	2.1	406.4	2.553	0.1	1201.4	1.1	803.9
740	2.460	10.5	416.9	2.540	1.6	1203.0	6.0	809.9
741	2.395	17.5	434.4	2.536	2.0	1205.0	9.8	819.7
742	2.420	14.8	444.2	2.540	1.6	1206.6	8.2	827.9
743	2.510	4.9	454.1	2.562	0.0	1206.6	2.5	830.4
744	2.565	0.0	454.1	2.550	0.4	1207.1	0.2	830.6
745	2.580	0.0	454.1	2.519	3.9	1211.0	2.0	832.5
746	2.510	4.9	459.1	2.506	5.4	1216.4	5.2	837.7
747	2.515	4.4	463.4	2.485	7.7	1224.1	5.1	843.8
748	2.510	4.9	463.4	2.466	9.6	1233.7	7.3	851.0
749	2.510	4.9	473.3	2.460	7.2	1240.9	6.1	857.1
750	2.510	0.0	473.3	2.520	3.6	1244.7	1.9	860.0
751	2.505	0.0	473.3	2.537	1.9	1246.6	1.0	861.0
752	2.515	0.0	473.3	2.572	0.0	1246.6	0.0	861.0
753	2.515	0.0	473.3	2.577	0.0	1246.6	0.0	861.0
754	2.515	0.0	473.3	2.577	0.0	1246.6	0.0	861.0
755	2.515	0.0	473.3	2.577	0.0	1246.6	0.0	861.0
756	2.515	0.0	473.3	2.577	0.0	1246.6	0.0	861.0
757	2.515	0.0	473.3	2.577	0.0	1246.6	0.0	861.0
758	2.515	0.0	473.3	2.577	0.0	1246.6	0.0	861.0

# THE CLEVELAND CLIFFS IRON COMPANY - WELL A-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-E	GAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
759	2.620	0.0	473.3	2.533	2.4	1249.9	1.2	86.1
760	2.675	0.0	473.3	2.533	2.4	1252.3	1.2	86.1
761	2.640	1.6	474.5	2.529	2.5	1253.1	2.2	86.1
762	2.615	4.4	479.3	2.537	1.9	1257.0	3.2	86.1
763	2.620	3.8	483.1	2.507	5.3	1262.3	4.6	86.1
764	2.630	2.7	485.5	2.464	10.0	1272.3	5.4	86.1
765	2.490	7.2	492.0	2.455	11.0	1283.3	6.1	86.1
766	2.385	18.5	511.6	2.447	11.9	1295.2	15.2	90.0
767	2.310	26.4	538.0	2.438	12.9	1308.1	19.6	93.0
768	2.445	12.1	550.1	2.438	12.9	1321.0	12.5	93.0
769	2.525	3.2	553.3	2.481	8.2	1329.1	5.7	94.1
770	2.530	2.7	556.0	2.498	6.3	1335.4	4.5	94.1
771	2.490	7.2	563.2	2.447	11.9	1347.3	9.5	95.1
772	2.445	12.1	575.3	2.434	13.3	1350.6	12.7	95.1
773	2.395	18.5	593.9	2.434	13.3	1373.9	15.9	95.1
774	2.370	20.1	614.0	2.395	17.5	1391.4	18.8	100.0
775	2.470	9.4	623.4			1410.7	14.3	101.7
776	2.435	13.2	630.2			1424.0	13.2	103.0
777	2.365	13.2	630.2			1433.6	15.1	104.5
778	2.510	4.9	662.2			1443.2	7.3	105.2
779	2.590	0.0	662.2			1449.9	3.4	105.6
780	2.570	0.0	662.2			1449.9	0.0	105.6
781	2.560	0.0	662.2			1449.9	0.0	105.6
782	2.565	0.0	662.2			1449.9	0.0	105.6
783	2.580	0.0	662.2			1449.9	0.0	105.6
784	2.645	0.0	662.2			1449.9	0.0	105.6
785	2.675	0.0	662.2			1449.9	0.0	105.6
786	2.635	0.0	662.2			1449.9	0.0	105.6
787	2.620	0.0	662.2			1449.9	0.0	105.6
788	2.610	0.0	662.2			1452.4	1.2	105.7
789	2.565	0.0	662.2			1459.7	3.6	106.0
790	2.500	6.1	668.2			1474.5	10.4	107.1
791	2.470	9.4	677.6			1493.5	14.2	108.5
792	2.395	17.5	695.1			1513.4	18.7	110.4
793	2.320	25.3	720.4			1531.4	21.7	112.5
794	2.355	11.0	731.5			1551.7	15.7	114.1
795	2.470	9.4	740.8			1568.9	13.3	116.4
796	2.435	13.2	754.0			1588.3	16.3	117.1
797	2.400	11.0	775.2			1607.4	20.1	119.1
798	2.365	11.0	804.2			1629.6	25.4	121.1
799	2.365	11.0	825.6			1658.6	30.7	123.1
800	2.365	11.0	846.6			1692.7	36.0	125.1
801	2.365	11.0	868.6			1730.9	41.8	127.1
802	2.365	11.0	891.6			1775.6	47.7	129.1
803	2.365	11.0	914.6			1826.4	53.6	131.1
804	2.365	11.0	937.6			1883.7	59.5	133.1
805	2.365	11.0	960.6			1947.4	65.4	135.1
806	2.365	11.0	983.6			2017.4	71.3	137.1
807	2.365	11.0	1006.6			2093.7	77.2	139.1
808	2.365	11.0	1029.6			2176.4	83.1	141.1
809	2.365	11.0	1052.6			2265.7	89.0	143.1
810	2.365	11.0	1075.6			2361.4	94.9	145.1
811	2.365	11.0	1098.6			2463.7	100.8	147.1
812	2.365	11.0	1121.6			2572.4	106.7	149.1
813	2.365	11.0	1144.6			2687.7	112.6	151.1
814	2.365	11.0	1167.6			2808.4	118.5	153.1
815	2.365	11.0	1190.6			2934.7	124.4	155.1
816	2.365	11.0	1213.6			3066.4	130.3	157.1
817	2.365	11.0	1236.6			3203.7	136.2	159.1
818	2.365	11.0	1259.6			3346.4	142.1	161.1
819	2.365	11.0	1282.6			3494.7	148.0	163.1
820	2.365	11.0	1305.6			3647.4	153.9	165.1
821	2.365	11.0	1328.6			3805.7	159.8	167.1
822	2.365	11.0	1351.6			3969.4	165.7	169.1
823	2.365	11.0	1374.6			4138.7	171.6	171.1
824	2.365	11.0	1397.6			4313.4	177.5	173.1
825	2.365	11.0	1420.6			4493.7	183.4	175.1
826	2.365	11.0	1443.6			4679.4	189.3	177.1
827	2.365	11.0	1466.6			4870.7	195.2	179.1
828	2.365	11.0	1489.6			5067.4	201.1	181.1
829	2.365	11.0	1512.6			5269.7	207.0	183.1
830	2.365	11.0	1535.6			5477.4	212.9	185.1
831	2.365	11.0	1558.6			5690.7	218.8	187.1
832	2.365	11.0	1581.6			5909.4	224.7	189.1
833	2.365	11.0	1604.6			6133.7	230.6	191.1
834	2.365	11.0	1627.6			6363.4	236.5	193.1
835	2.365	11.0	1650.6			6598.7	242.4	195.1
836	2.365	11.0	1673.6			6839.4	248.3	197.1
837	2.365	11.0	1696.6			7085.7	254.2	199.1
838	2.365	11.0	1719.6			7337.4	260.1	201.1
839	2.365	11.0	1742.6			7594.7	266.0	203.1
840	2.365	11.0	1765.6			7857.4	271.9	205.1
841	2.365	11.0	1788.6			8125.7	277.8	207.1
842	2.365	11.0	1811.6			8399.4	283.7	209.1
843	2.365	11.0	1834.6			8678.7	289.6	211.1
844	2.365	11.0	1857.6			8963.4	295.5	213.1
845	2.365	11.0	1880.6			9253.7	301.4	215.1
846	2.365	11.0	1903.6			9549.4	307.3	217.1
847	2.365	11.0	1926.6			9850.7	313.2	219.1
848	2.365	11.0	1949.6			10157.4	319.1	221.1
849	2.365	11.0	1972.6			10469.7	325.0	223.1
850	2.365	11.0	1995.6			10787.4	330.9	225.1
851	2.365	11.0	2018.6			11110.7	336.8	227.1
852	2.365	11.0	2041.6			11438.4	342.7	229.1
853	2.365	11.0	2064.6			11770.7	348.6	231.1
854	2.365	11.0	2087.6			12107.4	354.5	233.1
855	2.365	11.0	2110.6			12448.7	360.4	235.1
856	2.365	11.0	2133.6			12794.4	366.3	237.1
857	2.365	11.0	2156.6			13144.7	372.2	239.1
858	2.365	11.0	2179.6			13499.4	378.1	241.1
859	2.365	11.0	2202.6			13858.7	384.0	243.1
860	2.365	11.0	2225.6			14222.4	389.9	245.1
861	2.365	11.0	2248.6			14590.7	395.8	247.1
862	2.365	11.0	2271.6			14963.4	401.7	249.1
863	2.365	11.0	2294.6			15340.7	407.6	251.1
864	2.365	11.0	2317.6			15721.4	413.5	253.1
865	2.365	11.0	2340.6			16105.7	419.4	255.1
866	2.365	11.0	2363.6			16493.4	425.3	257.1
867	2.365	11.0	2386.6			16884.7	431.2	259.1
868	2.365	11.0	2409.6			17279.4	437.1	261.1
869	2.365	11.0	2432.6			17677.7	443.0	263.1
870	2.365	11.0	2455.6			18079.4	448.9	265.1
871	2.365	11.0	2478.6			18484.7	454.8	267.1
872	2.365	11.0	2501.6			18893.4	460.7	269.1
873	2.365	11.0	2524.6			19305.7	466.6	271.1
874	2.365	11.0	2547.6			19720.4	472.5	273.1
875	2.365	11.0	2570.6			20138.7	478.4	275.1
876	2.365	11.0	2593.6			20559.4	484.3	277.1
877	2.365	11.0	2616.6			20982.7	490.2	279.1
878	2.365	11.0	2639.6			21408.4	496.1	281.1
879	2.365	11.0	2662.6			21836.7	502.0	283.1
880	2.365	11.0	2685.6			22267.4	507.9	285.1
881	2.365	11.0	2708.6			22700.7	513.8	287.1
882	2.365	11.0	2731.6			23136.4	519.7	289.1
883	2.365	11.0	2754.6			23574.7	525.6	291.1
884	2.365	11.0	2777.6			24015.4	531.5	293.1
885	2.365	11.0	2800.6			24458.7	537.4	295.1
886	2.365	11.0	2823.6			24904.4	543.3	297.1
887	2.365	11.0	2846.6			25352.7	549.2	299.1
888	2.365	11.0	2869.6			25803.4	555.1	301.1
889	2.365	11.0	2892.6			26256.7	561.0	303.1
890	2.365	11.0	2915.6			26712.4	566.9	305.1
891	2.365	11.0	2938.6			27170.7	572.8	307.1
892	2.365	11.0	2961.6			27631.4	578.7	309.1
893	2.365	11.0	2984.6			28094.7	584.6	311.1
894	2.365	11.0	3007.6			28559.4	590.5	313.1
895	2.365	11.0	3030.6			29026.7	596.4	315.1
896	2.365	11.0	3053.6			29496.4	602.3	317.1
897	2.365	11.0	3076.6			29968.7	608.2	319.1
898	2.365	11.0	3099.6			30442.4	614.1	321.1
899	2.365	11.0	3122.6			30918.7	620.0	323.1
900	2.365	11.0	3145.6			31396.4	625.9	325.1
901	2.365	11.0	3168.6			31876.7	631.8	327.1
902	2.365	11.0	3191.6			32358.4	637.7	329.1
903	2.365	11.0	3214.6			32841.7	643.6	331.1
904	2.365	11.0	3237.6			33326.4	649.5	333.1
905	2.365	11.0	3260.6			33812.7	6	

# KEROGEN ANALYSIS

FOR

THE CLEVELAND CLIFFS IRON COMPANY-DEPT. 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
809	2.510	4.9	1036.9	2.488	7.4	1876.8	6.2	1456.9
810	2.530	2.7	1039.6	2.492	6.9	1883.8	4.8	1461.7
811	2.520	3.8	1043.4	2.518	4.1	1887.8	3.9	1465.6
812	2.490	7.2	1050.6	2.552	0.2	1889.1	3.7	1469.3
813	2.505	5.5	1056.1	2.548	0.7	1889.7	3.1	1472.4
814	2.510	4.9	1061.1	2.491	7.1	1895.8	6.0	1478.4
815	2.420	14.8	1075.9	2.422	14.6	1910.4	14.7	1493.1
816	2.325	24.8	1100.7	2.388	18.2	1928.6	21.5	1514.7
817	2.195	37.9	1138.6	2.353	21.9	1950.6	29.9	1544.6
818	2.205	36.9	1175.5	2.294	28.0	1978.5	32.4	1577.0
819	2.345	22.8	1198.3	2.252	32.2	2010.7	27.5	1604.5
820	2.315	25.9	1224.1	2.279	29.6	2040.3	27.7	1632.2
821	2.215	35.9	1260.1	2.191	38.3	2078.6	37.1	1669.3
822	2.140	43.2	1303.2	2.069	49.9	2128.5	46.5	1715.9
823	2.045	52.0	1355.3	1.938	61.5	2190.0	56.8	1772.6
824	1.955	60.0	1415.3	1.800	72.9	2263.0	66.5	1839.1
825	1.875	66.8	1482.1	1.652	84.3	2347.3	75.6	1914.7
826	1.805	72.6	1554.7	1.627	86.1	2433.4	79.3	1994.0
827	1.745	77.3	1632.8			2518.3	81.1	2075.1
828	1.795	73.4	1705.4			2597.6	76.4	2151.5
829	1.955	66.0	1767.4			2655.5	59.0	2210.5
830	2.020	54.3	1819.7	2.150	42.2	2697.8	48.3	2258.7
831	2.015	54.7	1874.4			2734.2	45.6	2304.3
832	2.150	42.2	1916.7			2765.8	36.9	2341.2
833	2.375	19.6	1936.3			2792.1	23.0	2364.2
834	2.325	24.8	1961.1	2.371	20.0	2812.2	22.4	2386.6
835	2.305	26.9	1988.0	2.384	18.7	2830.8	22.8	2409.4
836	2.265	31.0	2019.0	2.315	25.9	2856.7	28.4	2437.8
837	2.315	25.9	2044.8	2.205	37.0	2893.7	31.4	2469.2
838	2.250	32.5	2077.3	2.179	39.4	2933.1	35.9	2505.2
839	2.125	44.6	2121.9	2.174	40.0	2973.0	42.3	2547.5
840	2.040	52.5	2174.4	2.137	43.4	3016.5	48.0	2595.4
841	2.125	44.6	2219.0	2.125	44.6	3061.1	44.6	2640.0
842	2.200	37.4	2256.4	2.216	35.9	3096.9	36.6	2676.7
843	2.295	27.9	2284.3	2.304	27.0	3123.9	27.5	2704.1
844	2.270	30.4	2314.8	2.362	21.0	3144.9	25.7	2729.8
845	2.270	30.4	2345.2	2.353	21.9	3166.8	26.2	2756.0
846	2.395	17.5	2362.7	2.310	26.4	3193.2	21.9	2777.9
847	2.400	17.0	2379.6	2.336	23.6	3216.9	20.3	2798.2
848	2.365	20.7	2400.3	2.350	22.2	3239.1	21.4	2819.7
849	2.285	28.9	2429.2	2.349	22.3	3261.4	25.6	2845.3
850	2.255	32.0	2461.2	2.353	21.9	3283.3	26.9	2872.3
851	2.410	15.9	2477.1	2.371	20.0	3303.4	18.0	2890.2
852	2.400	10.5	2487.5	2.401	16.8	3320.2	13.7	2903.9
853	2.445	12.1	2499.7	2.423	14.5	3334.7	13.3	2917.2
854	2.400	17.0	2516.6	2.388	18.2	3352.9	17.6	2934.8
855	2.390	24.3	2540.9	2.354	21.8	3374.8	23.1	2957.8
856	2.290	34.4	2575.4	2.321	25.3	3400.0	29.9	2987.7
857	2.270	30.4	2605.8	2.279	29.6	3429.6	30.0	3017.7
858	2.215	33.0	2631.7	2.242	33.3	3452.9	29.0	3047.3

THE OCEAN LIFTING IRON COMPANY-WELL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	PHO-B	GAL/TON	ACCUM. YIELD	PHO-B	GAL/TON	ACCUM. YIELD	GAL/TON	ACCUM. YIELD
869	2.243	12.3	3474.2	29.3	3077.6		29.3	3077.6
870	2.279	20.6	3513.7	29.2	3103.8		29.2	3103.8
871	2.304	27.0	3532.7	29.2	3135.1		29.2	3135.1
872	2.330	24.3	3577.0	21.9	3153.0		21.9	3153.0
873	2.371	20.0	3597.0	15.3	3172.3		15.3	3172.3
874	2.414	15.5	3612.5	11.3	3187.6		11.3	3187.6
875	2.414	15.5	3627.9	11.0	3198.6		11.0	3198.6
876	2.431	13.6	3641.6	10.4	3209.0		10.4	3209.0
877	2.457	10.8	3652.4	11.2	3217.2		11.2	3217.2
878	2.475	8.8	3661.2	9.6	3225.8		9.6	3225.8
879	2.496	6.5	3667.7	4.3	3230.2		4.3	3230.2
880	2.505	5.5	3673.2	2.8	3232.9		2.8	3232.9
881	2.543	1.2	3674.4	2.0	3234.9		2.0	3234.9
882	2.556	0.0	3674.4	1.4	3236.2		1.4	3236.2
883	2.539	1.7	3676.1	2.8	3239.0		2.8	3239.0
884	2.535	2.1	3678.3	4.7	3243.7		4.7	3243.7
885			3680.0	4.2	3247.8		4.2	3247.8
886			3686.0	7.2	3253.0		7.2	3253.0
887			3695.4	12.4	3267.3		12.4	3267.3
888			3702.4	14.1	3281.4		14.1	3281.4
889			3708.9	7.4	3288.8		7.4	3288.8
890			3721.5	9.6	3299.4		9.6	3299.4
891			3736.4	15.1	3313.6		15.1	3313.6
892			3748.7	19.3	3332.9		19.3	3332.9
893			3760.8	16.7	3349.5		16.7	3349.5
894			3773.4	8.5	3358.0		8.5	3358.0
895			3781.9	4.8	3362.8		4.8	3362.8
896			3783.6	1.4	3364.1		1.4	3364.1
897			3783.6	1.6	3366.5		1.6	3366.5
898			3786.8	5.2	3370.9		5.2	3370.9
899			3789.5	8.5	3379.4		8.5	3379.4
900			3795.1	12.6	3392.0		12.6	3392.0
901			3802.7	7.4	3399.4		7.4	3399.4
902			3808.0	2.6	3402.1		2.6	3402.1
903			3811.8	1.9	3404.0		1.9	3404.0
904			3812.7	0.5	3404.4		0.5	3404.4
905			3812.7	0.0	3404.4		0.0	3404.4
906			3812.7	0.0	3404.4		0.0	3404.4
907			3812.7	0.0	3404.4		0.0	3404.4
908			3812.7	0.0	3404.4		0.0	3404.4
909			3812.7	0.0	3404.4		0.0	3404.4
910			3812.7	0.0	3404.4		0.0	3404.4
911			3812.7	0.0	3404.4		0.0	3404.4
912			3812.7	0.0	3404.4		0.0	3404.4
913			3812.7	0.0	3404.4		0.0	3404.4
914			3812.7	0.0	3404.4		0.0	3404.4
915			3812.7	0.0	3404.4		0.0	3404.4
916			3812.7	0.0	3404.4		0.0	3404.4
917			3812.7	0.0	3404.4		0.0	3404.4
918			3812.7	0.0	3404.4		0.0	3404.4
919			3812.7	0.0	3404.4		0.0	3404.4
920			3812.7	0.0	3404.4		0.0	3404.4
921			3812.7	0.0	3404.4		0.0	3404.4
922			3812.7	0.0	3404.4		0.0	3404.4
923			3812.7	0.0	3404.4		0.0	3404.4
924			3812.7	0.0	3404.4		0.0	3404.4
925			3812.7	0.0	3404.4		0.0	3404.4
926			3812.7	0.0	3404.4		0.0	3404.4
927			3812.7	0.0	3404.4		0.0	3404.4
928			3812.7	0.0	3404.4		0.0	3404.4
929			3812.7	0.0	3404.4		0.0	3404.4
930			3812.7	0.0	3404.4		0.0	3404.4
931			3812.7	0.0	3404.4		0.0	3404.4
932			3812.7	0.0	3404.4		0.0	3404.4
933			3812.7	0.0	3404.4		0.0	3404.4
934			3812.7	0.0	3404.4		0.0	3404.4
935			3812.7	0.0	3404.4		0.0	3404.4
936			3812.7	0.0	3404.4		0.0	3404.4
937			3812.7	0.0	3404.4		0.0	3404.4
938			3812.7	0.0	3404.4		0.0	3404.4
939			3812.7	0.0	3404.4		0.0	3404.4
940			3812.7	0.0	3404.4		0.0	3404.4
941			3812.7	0.0	3404.4		0.0	3404.4
942			3812.7	0.0	3404.4		0.0	3404.4
943			3812.7	0.0	3404.4		0.0	3404.4
944			3812.7	0.0	3404.4		0.0	3404.4
945			3812.7	0.0	3404.4		0.0	3404.4
946			3812.7	0.0	3404.4		0.0	3404.4
947			3812.7	0.0	3404.4		0.0	3404.4
948			3812.7	0.0	3404.4		0.0	3404.4
949			3812.7	0.0	3404.4		0.0	3404.4
950			3812.7	0.0	3404.4		0.0	3404.4
951			3812.7	0.0	3404.4		0.0	3404.4
952			3812.7	0.0	3404.4		0.0	3404.4
953			3812.7	0.0	3404.4		0.0	3404.4
954			3812.7	0.0	3404.4		0.0	3404.4
955			3812.7	0.0	3404.4		0.0	3404.4
956			3812.7	0.0	3404.4		0.0	3404.4
957			3812.7	0.0	3404.4		0.0	3404.4
958			3812.7	0.0	3404.4		0.0	3404.4
959			3812.7	0.0	3404.4		0.0	3404.4
960			3812.7	0.0	3404.4		0.0	3404.4
961			3812.7	0.0	3404.4		0.0	3404.4
962			3812.7	0.0	3404.4		0.0	3404.4
963			3812.7	0.0	3404.4		0.0	3404.4
964			3812.7	0.0	3404.4		0.0	3404.4
965			3812.7	0.0	3404.4		0.0	3404.4
966			3812.7	0.0	3404.4		0.0	3404.4
967			3812.7	0.0	3404.4		0.0	3404.4
968			3812.7	0.0	3404.4		0.0	3404.4
969			3812.7	0.0	3404.4		0.0	3404.4
970			3812.7	0.0	3404.4		0.0	3404.4
971			3812.7	0.0	3404.4		0.0	3404.4
972			3812.7	0.0	3404.4		0.0	3404.4
973			3812.7	0.0	3404.4		0.0	3404.4
974			3812.7	0.0	3404.4		0.0	3404.4
975			3812.7	0.0	3404.4		0.0	3404.4
976			3812.7	0.0	3404.4		0.0	3404.4
977			3812.7	0.0	3404.4		0.0	3404.4
978			3812.7	0.0	3404.4		0.0	3404.4
979			3812.7	0.0	3404.4		0.0	3404.4
980			3812.7	0.0	3404.4		0.0	3404.4
981			3812.7	0.0	3404.4		0.0	3404.4
982			3812.7	0.0	3404.4		0.0	3404.4
983			3812.7	0.0	3404.4		0.0	3404.4
984			3812.7	0.0	3404.4		0.0	3404.4
985			3812.7	0.0	3404.4		0.0	3404.4
986			3812.7	0.0	3404.4		0.0	3404.4
987			3812.7	0.0	3404.4		0.0	3404.4
988			3812.7	0.0	3404.4		0.0	3404.4
989			3812.7	0.0	3404.4		0.0	3404.4
990			3812.7	0.0	3404.4		0.0	3404.4
991			3812.7	0.0	3404.4		0.0	3404.4
992			3812.7	0.0	3404.4		0.0	3404.4
993			3812.7	0.0	3404.4		0.0	3404.4
994			3812.7	0.0	3404.4		0.0	3404.4
995			3812.7	0.0	3404.4		0.0	3404.4
996			3812.7	0.0	3404.4		0.0	3404.4
997			3812.7	0.0	3404.4		0.0	3404.4
998			3812.7	0.0	3404.4		0.0	3404.4
999			3812.7	0.0	3404.4		0.0	3404.4
1000			3812.7	0.0	3404.4		0.0	3404.4



THE FLAVELAND CLIFFS LIME COMPANY-CELL X-5

DEPTH	DENSITY LOG			VELOCITY LOG			DENSITY AND VELOCITY	
	RHO-B	CAL/TON	ACCUM. YIELD	RHO-B	GAL/TON	ACCUM. YIELD	CAL/TON	ACCUM. YIELD
909	2.510	4.9	3009.2	2.622	0.0	3812.7	2.5	3411.0
910	2.530	2.7	3011.9	2.626	0.0	3812.7	1.4	3412.3
911	2.545	1.0	3013.0	2.626	0.0	3812.7	0.5	3412.8
912	2.575	0.0	3013.0	2.635	0.0	3812.7	0.0	3412.8
913	2.555	0.0	3013.0	2.644	0.0	3812.7	0.0	3412.8
914	2.565	0.0	3013.0	2.640	0.0	3812.7	0.0	3412.8
915	2.585	0.0	3013.0	2.635	0.0	3812.7	0.0	3412.8
916	2.610	0.0	3013.0	2.640	0.0	3812.7	0.0	3412.8
917	2.615	0.0	3013.0	2.644	0.0	3812.7	0.0	3412.8
918	2.625	0.0	3013.0	2.644	0.0	3812.7	0.0	3412.8
919	2.625	0.0	3013.0	2.648	0.0	3812.7	0.0	3412.8
920	2.625	0.0	3013.0	2.648	0.0	3812.7	0.0	3412.8
921	2.630	0.0	3013.0	2.648	0.0	3812.7	0.0	3412.8
922	2.635	0.0	3013.0	2.648	0.0	3812.7	0.0	3412.8
923	2.610	0.0	3013.0	2.648	0.0	3812.7	0.0	3412.8
924	2.585	0.0	3013.0	2.648	0.0	3812.7	0.0	3412.8
925	2.590	0.0	3013.0	2.644	0.0	3812.7	0.0	3412.8
926	2.615	0.0	3013.0	2.644	0.0	3812.7	0.0	3412.8
927	2.610	0.0	3013.0	2.644	0.0	3812.7	0.0	3412.8
928	2.600	0.0	3013.0	2.644	0.0	3812.7	0.0	3412.9
929	2.595	0.0	3013.0	2.644	0.0	3812.7	0.0	3412.8