

Scientific Drilling SDI Survey Report

Company: Scientific Drilling Co. Inc.	Job: 701089	Date: 10-31-99	Page: 1
Client: U.S. Army Corps of Engineers	Location: Fort Belvoir, Illinois	Survey: SDI Survey No. 1000000000	Scale: 1" = 100' (Horizontal) 1" = 10' (Vertical)
Project: OH Original	Survey: 701089	Survey: 10-31-99	Survey: 10-31-99

Survey: Survey #1
 Company: BHL-I
 Tool: 30-025-3453b
 Start Date: 5/31/1999
 Engineer: 1854/3 + 777/E
 1522/3 + 992/E

MB	MB	MB	MB	MB	MB	MB	MB	MB	MB
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0
100.0	0.83	211.90	100.0	-0.6	-0.4	0.83	0.7	211.80	0.7
200.0	1.06	201.36	200.0	-2.1	-1.1	0.29	2.4	207.80	2.4
300.0	1.21	181.77	300.0	-4.0	-1.7	0.24	4.3	202.54	4.3
400.0	1.25	182.62	399.9	-6.1	-2.1	0.04	6.4	199.11	6.4
500.0	1.35	197.87	499.9	-8.3	-2.7	0.18	8.6	198.13	8.7
600.0	1.27	202.60	599.9	-10.4	-3.5	0.13	10.9	198.55	11.0
700.0	1.30	209.94	699.9	-12.4	-4.5	0.17	13.1	199.87	13.2
800.0	1.11	217.07	799.8	-14.2	-5.6	0.24	15.2	201.69	15.3
900.0	1.12	229.96	899.8	-15.6	-7.0	0.25	17.0	204.10	17.1
1000.0	1.01	229.72	999.8	-16.8	-8.4	0.11	18.8	206.57	18.8
1100.0	0.91	234.86	1099.8	-17.8	-9.7	0.13	20.3	208.61	20.3
1200.0	0.81	237.86	1199.8	-18.8	-11.0	0.11	21.6	210.46	21.6
1300.0	0.61	230.83	1299.8	-19.3	-12.0	0.22	22.7	211.75	22.8
1400.0	0.54	237.84	1399.8	-19.9	-12.8	0.10	23.6	212.67	23.7
1500.0	0.42	248.45	1499.8	-20.3	-13.5	0.15	24.3	213.65	24.4
1600.0	0.36	240.33	1599.8	-20.6	-14.1	0.09	24.8	214.47	25.0
1700.0	0.43	222.88	1699.8	-21.0	-14.7	0.14	25.4	214.90	25.6
1800.0	0.43	224.91	1799.8	-21.6	-15.2	0.02	26.1	215.15	26.4
1900.0	0.41	237.36	1899.8	-22.0	-15.6	0.09	26.8	215.57	27.1
2000.0	0.41	260.56	1999.8	-22.3	-16.4	0.16	27.3	216.37	27.7
2100.0	0.15	270.55	2099.7	-22.3	-16.9	0.26	27.8	217.10	28.0
2200.0	0.38	347.59	2199.7	-22.0	-17.1	0.36	27.4	217.83	27.9
2300.0	0.84	346.95	2299.7	-21.0	-17.3	0.46	26.6	219.57	27.2
2400.0	0.66	347.73	2399.7	-19.7	-17.8	0.16	25.6	221.84	26.4
2500.0	0.78	342.36	2499.7	-18.5	-18.0	0.12	24.7	224.22	25.7
2600.0	1.18	338.08	2599.7	-16.8	-18.5	0.41	23.5	227.75	25.1
2700.0	1.39	340.40	2699.7	-14.8	-19.3	0.22	22.0	232.66	24.3
2800.0	1.60	348.55	2799.7	-12.2	-20.0	0.30	20.1	238.56	23.5
2900.0	1.83	349.05	2899.6	-8.3	-20.6	0.23	17.8	245.70	22.6
3000.0	1.78	351.02	2999.6	-6.2	-21.1	0.08	15.3	253.65	22.0
3100.0	1.69	348.02	3099.5	-3.2	-21.7	0.11	12.9	261.55	21.9
3200.0	1.45	344.59	3199.5	-0.6	-22.3	0.27	10.8	268.68	22.3
3300.0	1.36	348.66	3299.4	1.8	-22.8	0.15	8.9	274.59	22.9
3400.0	1.29	3.68	3399.4	4.1	-23.0	0.33	7.0	280.18	23.3
3500.0	1.38	1.54	3499.4	6.5	-22.9	0.10	4.8	285.75	23.8
3600.0	1.34	19.46	3599.4	8.8	-22.5	0.43	2.6	291.31	24.1
3700.0	1.34	28.10	3699.3	10.9	-21.5	0.20	0.3	296.85	24.1
3800.0	1.29	38.71	3799.3	12.8	-20.3	0.25	-2.0	302.29	24.0
3900.0	1.43	39.73	3899.3	14.6	-18.8	0.14	-4.3	307.97	23.8
4000.0	1.31	34.82	3999.3	16.5	-17.3	0.17	-6.7	313.70	23.8
4100.0	1.16	29.69	4099.2	18.4	-16.2	0.19	-8.8	318.65	24.4
4200.0	1.13	24.69	4199.2	20.1	-15.2	0.10	-10.8	322.87	25.2
4300.0	1.11	22.01	4299.2	21.9	-14.5	0.06	-12.8	326.59	26.3
4400.0	1.10	21.82	4399.2	23.7	-13.7	0.01	-14.7	329.80	27.4
4500.0	1.10	14.58	4499.2	25.5	-13.2	0.14	-16.6	332.75	28.7
4600.0	1.43	0.15	4599.1	27.7	-12.9	0.46	-18.6	335.03	30.6
4700.0	1.44	1.30	4699.1	30.2	-12.9	0.03	-20.9	336.92	32.8