

APPENDIX 2.3-20.1

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-01R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3026	SHOB-01	55-60	55	60	D	37.45	21.34	34.12	5103	8158	4	1.71	2.73
06-C3027	SHOB-01	60-65	60	65	D	48.37	9.82	19.02	5027	9737	6.9	0.4	0.77
06-C3028	SHOB-01	65-70	65	70	D	44.57	7.09	12.79	5850	10554	9.1	0.6	1.08
06-C3029	SHOB-01	70-75	70	75	D	42.61	34.26	59.7	2509	4372	1.8	0.42	0.73

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.2

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-03R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3084	SHOB-03	60-65	60	65	D	44.64	11.18	20.2	5339	9644	6.7	0.55	0.99
06-C3085	SHOB-03	65-70	65	70	D	42.3	9	15.6	5922	10263	8.9	0.76	1.32
06-C3086	SHOB-03	70-75	70	75	D	41.47	11.33	19.36	5801	9912	7.5	1.5	2.56

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.3

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-04R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3107	SHOB-04	40-45	40	45	D	40.69	11.95	20.15	5647	9520	5.3	0.59	0.99
06-C3024	SHOB-04	45-50	45	50	D	42.49	9.68	16.83	5825	10128	6.8	0.76	1.32
06-C3025	SHOB-04	50-55	50	55	D	43.23	7.84	13.81	5958	10495	8.7	0.8	1.41

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.4

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-05R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3030	SHOB-05	45-50	45	50	D	39.74	16.01	26.57	5337	8857	5.1	0.58	0.96
06-C3031	SHOB-05	50-55	50	55	D	38.87	16	26.17	5384	8807	5.4	0.49	0.8
06-C3032	SHOB-05	55-60	55	60	D	40.7	17.04	28.74	5139	8666	5.1	0.63	1.06
06-C3033	SHOB-05	60-65	60	65	D	47.85	17.53	33.61	4133	7925	4.6	0.88	1.69

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.5

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-06B

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3047	SHOB-06B	50-55	50	55	D	35.41	44.95	69.59	1942	3007	2	0.91	1.41
06-C3048	SHOB-06B	55-60	55	60	D	42.07	29.2	50.41	3539	6109	2.5	1.2	2.07
06-C3049	SHOB-06B	60-65	60	65	D	40.09	38.79	64.75	1892	3158	2.1	1.21	2.02

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.6

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-07R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3034	SHOB-07	45-50	45	50	D	43.23	14.74	25.96	5047	8891	4.2	0.45	0.79
06-C3035	SHOB-07	50-55	50	55	D	41.23	13.71	23.33	5416	9216	4.9	0.53	0.9
06-C3036	SHOB-07	55-60	55	60	D	44.45	8.39	15.1	5785	10414	7.1	0.72	1.3
06-C3037	SHOB-07	60-65	60	65	D	48.29	24.32	47.03	3272	6328	2.5	0.45	0.87

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.7

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-08R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3079	SHOB-08	70-75	70	75	D	38.08	19.08	30.81	5281	8529	4.4	1.27	2.05
06-C3080	SHOB-08	75-80	75	80	D	36.29	29.94	46.99	3868	6072	3.2	0.49	0.77
06-C3081	SHOB-08	80-85	80	85	D	39.38	19.82	32.7	4862	8020	3.8	1.33	2.19
06-C3082	SHOB-08	250-255	250	255	D	46.75	28.26	53.07	2986	5608	3	1.48	2.78
06-C3083	SHOB-08	255-260	255	260	D	38.69	43.98	71.73	1804	2942	2	1.04	1.7

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.8

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-09R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3104	SHOB-09	80-85	80	85	D	51.4	12.75	26.23	4356	8963	4.5	1.39	2.86
06-C3105	SHOB-09	85-90	85	90	D	50.95	9.13	18.61	4860	9908	6.7	0.9	1.83
06-C3106	SHOB-09	90-95	90	95	D	45.17	30.63	55.86	2729	4977	1.8	0.39	0.71

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.9

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-11R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3094	SHOB-11	65-70	65	70	D	50.58	11.25	22.76	4631	9372	6.4	0.74	1.5
06-C3095	SHOB-11	70-75	70	75	D	47.46	8.77	16.69	5305	10096	7.7	0.56	1.07
06-C3096	SHOB-11	75-80	75	80	D	45.19	13	23.72	5065	9241	5.1	0.61	1.11

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.10

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-13R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3102	SHOB-13	35-40	35	40	D	40.64	12.62	21.26	5537	9327	4.9	0.73	1.23
06-C3103	SHOB-13	40-45	40	45	D	40.65	11.92	20.08	5814	9796	5.1	0.41	0.69

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.11

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-17R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3087	SHOB-17	105-110	105	110	D	48.11	18.49	35.63	4149	7996	3.2	0.81	1.56
06-C3088	SHOB-17	110-115	110	115	D	52.33	11.48	24.08	4432	9296	4.3	0.6	1.26
06-C3089	SHOB-17	115-120	115	120	D	52.2	14.01	29.31	4104	8586	4.4	0.58	1.21

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.12

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-18R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3090	SHOB-18	95-100	95	100	D	57.04	25.4	59.12	2066	4810	3.8	0.92	2.14
06-C3091	SHOB-18	100-105	100	105	D	47.55	25.19	48.03	3114	5937	3.4	0.62	1.18
06-C3092	SHOB-18	105-110	105	110	D	56.68	8.25	19.04	4280	9881	8.4	0.79	1.82
06-C3093	SHOB-18	110-115	110	115	D	55.16	10	22.3	4327	9650	7.2	1.3	2.9

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.13

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-19R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3097	SHOB-19	45-50	45	50	D	40.21	12.93	21.63	5731	9586	6.4	0.68	1.14
06-C3098	SHOB-19	50-55	50	55	D	42.64	9.03	15.74	5926	10331	8.9	0.81	1.41

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.14

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-20R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3099	SHOB-20	40-45	40	45	D	35.24	25.3	39.07	4741	7321	3.5	1.89	2.92
06-C3100	SHOB-20	45-50	45	50	D	41.12	12.94	21.98	5639	9578	6.1	1	1.7
06-C3101	SHOB-20	50-55	50	55	D	42.64	9.23	16.09	5904	10293	7.2	0.86	1.5

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.15

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-22R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3038	SHOB-22	40-45	40	45	D	37.7	20.03	32.15	5117	8214	1.9	0.95	1.52
06-C3039	SHOB-22	45-50	45	50	D	42.93	10.41	18.24	5589	9793	3.9	0.46	0.81
06-C3040	SHOB-22	50-55	50	55	D	40	13.72	22.87	5539	9231	2.9	0.61	1.02

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.16

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-23R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3041	SHOB-23	75-80	75	80	D	42.22	17	29.42	4889	8461	3.1	0.75	1.3
06-C3042	SHOB-23	80-85	80	85	D	52.53	11.45	24.12	4441	9355	4	1.8	3.79
06-C3043	SHOB-23	85-90	85	90	D	55.85	10.82	24.51	4055	9186	3.8	1.02	2.31

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.17

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-24R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3044	SHOB-24	65-70	65	70	D	37.44	17.78	28.42	5515	8816	2.3	0.79	1.26
06-C3045	SHOB-24	70-75	70	75	D	57.54	11.27	26.54	3782	8907	2.8	0.76	1.79
06-C3046	SHOB-24	75-80	75	80	D	57.41	8.41	19.75	4174	9801	3.5	0.61	1.43

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.18

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-26R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3119	SHOB-26	60-65	60	65	D	31.35	36.31	52.89	3717	5414	1.5	1.73	2.52
06-C3120	SHOB-26	65-70	65	70	D	34.57	27.05	41.34	4464	6823	1.8	0.7	1.07
06-C3121	SHOB-26	70-75	70	75	D	36.76	20.94	33.11	5058	7998	3.9	0.49	0.77

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.19

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-27R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3111	SHOB-27	60-65	60	65	D	35.13	25.03	38.58	4734	7298	3	0.38	0.59
06-C3112	SHOB-27	65-70	65	70	D	38.47	16.65	27.06	5382	8747	3.5	0.44	0.72
06-C3113	SHOB-27	70-75	70	75	D	53.45	14.36	30.85	3877	8329	3.6	0.39	0.84

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.20

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-28R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3108	SHOB-28	75-80	75	80	D	46.23	22.86	42.51	3807	7080	1.3	0.76	1.41
06-C3109	SHOB-28	80-85	80	85	D	51.18	16.53	33.86	3771	7724	1.5	1.36	2.79
06-C3110	SHOB-28	85-90	85	90	D	57.2	7.78	18.18	4244	9917	2.9	0.45	1.05

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.21

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-29R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3076	SHOB-29	55-60	55	60	D	33.15	32.91	49.23	3969	5937	1.5	0.31	0.46
06-C3077	SHOB-29	60-65	60	65	D	47.33	5.55	10.54	5816	11042	3.4	0.48	0.91
06-C3078	SHOB-29	65-70	65	70	D	52.33	10.52	22.07	4594	9636	2.1	1.04	2.18

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.22

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-31R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3134	SHOB-31	120-125	120	125	D	33.74	19.01	28.69	5744	8669	3.8	0.78	1.18
06-C3135	SHOB-31	125-130	125	130	D	39.46	12.6	20.81	5735	9473	5.2	0.42	0.69
06-C3136	SHOB-31	130-135	130	135	D	39.53	12.58	20.8	5821	9627	5.3	0.95	1.57

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.23

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-32R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3122	SHOB-32	125-130	125	130	D	36.87	21.05	33.34	5053	8003	2.2	0.71	1.12
06-C3123	SHOB-32	130-135	130	135	D	38.2	21.17	34.26	4912	7949	4.1	0.4	0.65
06-C3124	SHOB-32	135-140	135	140	D	36.62	25.24	39.82	4543	7168	3.7	0.87	1.37
06-C3125	SHOB-32	140-145	140	145	D	34.46	41.99	64.07	2653	4048	1.7	0.53	0.81

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.24

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-33R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3114	SHOB-33	45-50	45	50	D	37.6	17.65	28.29	5479	8781	4.5	1.33	2.13
06-C3115	SHOB-33	50-55	50	55	D	40.97	11.67	19.77	5832	9880	6.1	0.49	0.83
06-C3116	SHOB-33	55-60	55	60	D	39.22	13.79	22.69	5864	9649	4.8	1.51	2.48

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.25

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-35R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3050	SHOB-35	45-50	45	50	D	46.44	27.68	51.68	2986	5575	3	1.42	2.65
06-C3051	SHOB-35	50-55	50	55	D	49.45	18.08	35.77	3836	7588	3.6	0.31	0.61
06-C3052	SHOB-35	55-60	55	60	D	48.94	21.53	42.17	3532	6917	2.5	0.39	0.76
06-C3053	SHOB-35	60-65	60	65	D	50.21	13.45	27.01	4477	8991	3.6	0.57	1.14
06-C3054	SHOB-35	65-70	65	70	D	57.2	6.9	16.12	4390	10257	5.5	0.4	0.93

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.26

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-36R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3129	SHOB-36	80-85	80	85	D	29.26	34.9	49.34	4147	5863	2.5	0.27	0.38
06-C3130	SHOB-36	85-90	85	90	D	33.57	26.4	39.74	4847	7297	3.1	0.91	1.37
06-C3131	SHOB-36	90-95	90	95	D	33.17	28.5	42.65	4509	6747	3.1	0.4	0.6

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.27

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-37R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3126	SHOB-37	65-70	65	70	D	35.71	22.77	35.42	4975	7739	4	0.36	0.56
06-C3127	SHOB-37	70-75	70	75	D	38.63	17.81	29.02	5242	8541	4.3	0.47	0.77
06-C3128	SHOB-37	75-80	75	80	D	38.59	16.33	26.59	5468	8905	4.4	0.52	0.85

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.28

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-38R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3117	SHOB-38	45-50	45	50	D	40.12	13.08	21.84	5551	9271	2.5	0.45	0.75
06-C3118	SHOB-38	50-55	50	55	D	41.16	11.29	19.19	5778	9820	2.6	1.11	1.89

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.29

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-39R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3055	SHOB-39	55-60	55	60	D	39.28	14.92	24.57	5600	9222	3.1	1.67	2.75
06-C3056	SHOB-39	60-65	60	65	D	51.19	16.93	34.69	3836	7859	3.2	0.62	1.27
06-C3057	SHOB-39	65-70	65	70	D	53.7	9.75	21.06	4457	9626	4.7	0.6	1.3

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.30

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-40R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3132	SHOB-40	25-30	25	30	D	43.26	10.76	18.96	5409	9533	4.1	0.87	1.53
06-C3133	SHOB-40	30-35	30	35	D	40.76	10.84	18.3	5891	9945	5.1	0.7	1.18

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.31

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-42R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3062	SHOB-42	35-40	35	40	D	45.17	29.81	54.37	2866	5226	2	2.25	4.1
06-C3063	SHOB-42	40-45	40	45	D	49.39	15.71	31.04	4262	8422	2	1.79	3.54
06-C3064	SHOB-42	45-50	45	50	D	52.76	4.48	9.48	5256	11126	6.3	0.4	0.85
06-C3065	SHOB-42	50-55	50	55	D	50.76	6.81	13.83	5234	10630	4.8	0.58	1.18

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.32

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-43R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3058	SHOB-43	70-75	70	75	D	41.69	35.21	60.38	2801	4803	2.5	2.22	3.81
06-C3059	SHOB-43	75-80	75	80	D	46.84	26.6	50.04	3195	6010	2.7	1.2	2.26
06-C3060	SHOB-43	80-85	80	85	D	40.82	33.13	55.98	3060	5171	2.6	1.09	1.84
06-C3061	SHOB-43	85-90	85	90	D	40.55	41.34	69.54	2088	3512	2	1.09	1.83

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.33

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-45R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3073	SHOB-45	40-45	40	45	D	33.95	31.01	46.95	4149	6282	1.8	1.29	1.95
06-C3074	SHOB-45	45-50	45	50	D	43.3	12.18	21.48	5519	9733	3.1	1.22	2.15
06-C3075	SHOB-45	50-55	50	55	D	53.79	10.82	23.41	4334	9380	3.3	1.39	3.01

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.34

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-46R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3066	SHOB-46	65-70	65	70	D	44.47	44.61	80.33	1094	1971	2.3	0.53	0.95
06-C3067	SHOB-46	70-75	70	75	D	48.47	22.85	44.34	3370	6539	2.7	1.35	2.62
06-C3068	SHOB-46	75-80	75	80	D	49.46	21.29	42.13	3440	6806	3.1	1.04	2.06
06-C3069	SHOB-46	80-85	80	85	D	44.21	33.52	60.08	2462	4414	2	0.7	1.25

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.35

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-48R

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
06-C3070	SHOB-48	120-125	120	125	D	51.37	13.87	28.52	4198	8632	4.1	0.32	0.66
06-C3071	SHOB-48	125-130	125	130	D	52.43	13.5	28.38	4133	8688	3.7	2.23	4.69
06-C3072	SHOB-48	130-135	130	135	D	54.11	12.55	27.35	4014	8747	3.9	0.79	1.72

MVTL = Minnesota Valley Testing Laboratories Inc.

Rec = Received

BTU/lb = British Thermal Unit per pound

wt. % = weight percent

APPENDIX 2.3-20.36

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-101

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3942	SHOB-101	80-85	80	85	D	55.89	12.64	27.41	4201	9111	4.79	1.88	4.08

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.37

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-102

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3956	SHOB-102	35-40	35	40	D	55.61	10.5	23.65	4237	9545	5.15	0.59	1.33
07-C3980	SHOB-102	40-45	40	45	D	57.57	7.23	17.04	4327	10198	6.75	0.88	2.07
07-C3971	SHOB-102	45-50	45	50	D	51.29	12.47	25.6	4446	9217	3.58	1.7	3.49

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.38

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-103

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3955	SHOB-103	10-12.5	10	12.5	Stringer	53.41	12.42	26.66	3202	6873	4.14	1.48	3.18
07-C3967	SHOB-103	75-80	75	80	D	54.21	13.31	29.07	4037	8817	4	0.94	2.05
07-C3966	SHOB-103	80-85	80	85	D	55.19	10.08	22.49	4147	9255	5.89	0.34	0.76
07-C3972	SHOB-103	85-90	85	90	D	56.46	8.83	20.28	4235	9728	7.4	0.84	1.93

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.39

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-104

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3989	SHOB-104	10-12.5	10	12.5	Stringer	44.44	12.63	22.73	4459	8025	3.64	1.19	2.14
07-C3990	SHOB-104	12.5-15	12.5	15	Stringer	46.15	7.96	14.78	4592	8527	5.84	0.93	1.73
07-C3973	SHOB-104	90-95	90	95	D	55.82	9.27	20.98	4259	9640	3.6	0.39	0.88
07-C3962	SHOB-104	95-100	95	100	D	55.94	12.45	28.26	3919	8894	3.47	0.56	1.27

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.40

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-105

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3991	SHOB-105	7.5-10	7.5	10	Stringer	57.25	10.37	24.26	3013	7048	2.23	1.17	2.74
07-C3987	SHOB-105	80-85	80	85	D	54.7	12.86	28.39	4010	8853	4.31	0.88	1.94
07-C3941	SHOB-105	85-90	85	90	D	56.19	9.53	21.75	4273	9754	6.41	0.57	1.3
07-C3946	SHOB-105	90-95	90	95	D	58.99	7.79	19	4084	9959	6.47	0.83	2.02

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.41

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-106

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3951	SHOB-106	75-80	75	80	D	54.08	11.09	24.15	4309	9384	5.52	0.51	1.11
07-C3950	SHOB-106	80-85	80	85	D	57.3	10.72	25.11	4018	9409	4.13	0.97	2.27
07-C3957	SHOB-106	85-90	85	90	D	58.46	7.77	18.7	4144	9975	6.75	0.39	0.94

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.42

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-107

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3954	SHOB-107	12.5-15	12.5	15	Stringer	43.76	34.59	61.5	1843	3277	2.86	1.05	1.87
07-C3988	SHOB-107	15-17.5	15	17.5	Stringer	50.15	8.98	18.01	3960	7944	3.63	0.57	1.14
07-C3982	SHOB-107	90-95	90	95	D	53.13	8.26	17.62	4687	10000	7.6	0.46	0.98
07-C3981	SHOB-107	95-100	95	100	D	57.92	7.92	18.82	4174	9920	6.7	0.65	1.54
07-C3947	SHOB-107	100-105	100	105	D	59.23	7.3	17.91	4151	10181	6.95	0.51	1.25

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.43

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-108

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3943	SHOB-108	65-70	65	70	D	49.86	28.03	55.9	2687	5360	2.55	2.53	5.05
07-C3986	SHOB-108	70-75	70	75	D	55.24	10.4	23.24	4250	9495	5.11	0.48	1.07
07-C3984	SHOB-108	75-80	75	80	D	57.38	7.34	17.22	4343	10191	6.45	0.68	1.6
07-C3944.	SHOB-108	80-85	80	85	D	59.21	6.98	17.11	4037	9898	6.65	0.33	0.81

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.44

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-109

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3979	SHOB-109	70-75	70	75	D	49.22	29.53	58.15	2520	4963	1.93	0.38	0.75
07-C3974	SHOB-109	75-80	75	80	D	44.77	28.47	51.55	3137	5681	1.18	1.74	3.15
07-C3964	SHOB-109	80-85	80	85	D	51.13	19.17	39.23	3632	7433	1.62	0.51	1.04

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.45

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-110

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3985	SHOB-110	75-80	75	80	D	53.59	11.85	25.53	4167	8979	5.4	0.38	0.82
07-C3959	SHOB-110	80-85	80	85	D	58.71	9.54	23.1	3910	9469	6.02	0.64	1.55
07-C3958	SHOB-110	85-90	85	90	D	55.99	9.67	21.97	4246	9648	5.96	0.45	1.02

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.46

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-111

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3940	SHOB-111	40-45	40	45	D	55.65	13.57	30.6	3749	8454	4.79	0.74	1.67
07-C3983	SHOB-111	45-50	45	50	D	58.11	7.03	16.78	4234	10106	8.02	0.45	1.07
07-C3969	SHOB-111	50-55	50	55	D	58.18	7.96	19.03	4176	9986	7.25	0.53	1.27

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.47

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-112

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3968	SHOB-112	90-95	90	95	D	55.95	14.64	33.23	3587	8144	1.1	2.04	4.63
07-C3970	SHOB-112	95-100	95	100	D	50.21	14.97	30.07	4387	8810	1.16	1.15	2.31
07-C3961	SHOB-112	100-105	100	105	D	56.72	11.33	26.18	3985	9208	1.68	0.38	0.88
07-C3975	SHOB-112	105-110	105	110	D	54.91	15.6	34.6	3593	7968	1.48	0.65	1.44

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.48

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-113

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3948	SHOB-113	12.5-15	12.5	15	Stringer	55.29	11.12	24.87	3631	8120	6.76	0.99	2.21
07-C3953	SHOB-113	95-100	95	100	D	56.53	9.52	21.9	4118	9474	6.06	0.48	1.1
07-C3952	SHOB-113	100-105	100	105	D	59.15	9.02	22.08	3955	9681	6.28	0.38	0.93
07-C3949	SHOB-113	105-110	105	110	D	56.9	11.95	27.73	3850	8933	4.95	0.71	1.65

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.49

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-114

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4052	SHOB-114	45-50	45	50	D	56.23	15.93	36.39	2799	6395	2.04	1.11	2.54
07-C4053	SHOB-114	50-55	50	55	D	53.86	10.34	22.41	4367	9464	4.58	0.4	0.87
07-C4047	SHOB-114	55-60	55	60	D	55.12	10.92	24.33	4194	9345	2.32	0.8	1.78

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.50

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-115

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3965	SHOB-115	60-65	60	65	D	52.29	21.67	45.42	3100	6497	1.77	0.6	1.26
07-C3977	SHOB-115	65-70	65	70	D	55.18	7.9	17.63	4480	9996	2.83	0.39	0.87
07-C3976	SHOB-115	70-75	70	75	D	56.61	8.69	20.03	4300	9911	2.97	0.7	1.61

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.51

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-116

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4026	SHOB-116	40-45	40	45	D	31.36	63.35	92.29	475	692	0.98	<0.01	<0.01
07-C4024	SHOB-116	45-50	45	50	D	31.95	57.59	84.63	1060	1558	1.11	0.13	0.19
07-C4025	SHOB-116	50-55	50	55	D	34.78	52.83	81	1280	1962	1.02	0.2	0.31

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.52

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-117

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4034	SHOB-117	50-55	50	55	D	51.45	12.58	25.91	4183	8616	2.73	0.42	0.87
07-C3993	SHOB-117	55-60	55	60	D	55.72	14.61	32.99	3710	8378	2.56	0.46	1.04
07-C3992	SHOB-117	60-65	60	65	D	52.7	18.21	38.5	3634	7683	2.26	0.84	1.78

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.53

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-118

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4015	SHOB-118	50-55	50	55	D	55.12	13.48	30.04	3910	8711	2.9	2.49	5.55
07-C4049	SHOB-118	55-60	55	60	D	53.53	17.5	37.66	3533	7604	6.49	0.4	0.86
07-C4041	SHOB-118	60-65	60	65	D	48.98	20	39.2	3713	7278	2.8	0.46	0.9
07-C4042	SHOB-118	65-70	65	70	D	55.81	9.93	22.47	4217	9544	4.67	0.42	0.95

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.54

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-119

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4039	SHOB-119	110-115	110	115	D	51.78	15.89	32.95	3982	8257	3.66	0.92	1.91
07-C4054	SHOB-119	115-120	115	120	D	54.56	10.85	23.88	4192	9226	6.25	0.63	1.39

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.55

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-120

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4028	SHOB-120	65-70	65	70	D	31.65	33.02	48.31	4156	6081	1.85	0.33	0.48
07-C3997	SHOB-120	70-75	70	75	D	39.79	25.57	42.47	4244	7049	2	0.86	1.43
07-C3998	SHOB-120	75-80	75	80	D	56.74	20.27	46.86	2803	6479	1.73	1.91	4.42

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.56

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-121

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4006	SHOB-121	50-55	50	55	D	44.94	47.44	86.16	779	1416	1.4	0.7	1.27
07-C4038	SHOB-121	55-60	55	60	D	41.4	52.46	89.52	599	1023	1.61	0.66	1.13
07-C4017	SHOB-121	60-65	60	65	D	45.36	44.68	81.77	1100	2013	1.21	0.79	1.45
07-C4009	SHOB-121	65-70	65	70	D	42.02	45.81	79.01	1525	2630	0.88	1.33	2.29

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.57

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-122

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4020	SHOB-122	30-35	30	35	D	44.13	33.13	59.3	2642	4730	1.39	0.22	0.39
07-C4023	SHOB-122	35-40	35	40	D	45.57	28.95	53.19	2970	5457	1.24	0.53	0.97
07-C4022	SHOB-122	40-45	40	45	D	49.79	23.67	47.14	3296	6564	1.11	0.8	1.59
07-C4029	SHOB-122	45-50	45	50	D	39.68	41.6	68.97	2299	3811	0.94	0.36	0.6

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.58

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-123

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4044	SHOB-123	50-55	50	55	D	52.72	16.97	35.89	3595	7603	2.77	0.34	0.72
07-C4037	SHOB-123	55-60	55	60	D	55.03	13.09	29.11	3852	8566	3.3	0.59	1.31
07-C4005	SHOB-123	60-65	60	65	D	59.17	8.74	21.41	3785	9271	3.7	0.77	1.89

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.59

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-124

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4043	SHOB-124	45-50	45	50	D	51.75	19.99	41.43	3668	7603	2.92	1.57	3.25
07-C4002	SHOB-124	50-55	50	55	D	52.6	16.84	35.53	3704	7815	2.7	0.39	0.82
07-C4001	SHOB-124	55-60	55	60	D	53.91	13.23	28.7	4064	8818	3.21	1.04	2.26
07-C4035	SHOB-124	60-65	60	65	D	57.28	8.06	18.87	4426	10361	3.92	1.35	3.16

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.60

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-125

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4013	SHOB-125	105-110	105	110	D	45.94	38.02	70.33	1919	3549	2.4	1.04	1.92
07-C4016	SHOB-125	110-115	110	115	D	53.93	12.13	26.33	4248	9221	3.64	0.5	1.09
07-C4045	SHOB-125	115-120	115	120	D	54.11	10.59	23.08	4302	9375	4.19	0.45	0.98

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.61

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-126

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4040	SHOB-126	120-125	120	125	D	47.97	29.2	56.12	2914	5601	1.92	1.43	2.75
07-C3995	SHOB-126	125-130	125	130	D	54.53	11.78	25.91	4045	8895	4.29	0.38	0.84

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.62

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-130

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C3994	SHOB-130	25-30	25	30	D	32.68	53.44	79.38	1471	2184	1.1	0.32	0.48
07-C4046	SHOB-130	30-35	30	35	D	29.07	58.34	82.25	1399	1972	0.97	2.14	3.02
07-C4012	SHOB-130	35-40	35	40	D	26.61	64.65	88.09	824	1123	0.98	0.46	0.63

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.63

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-132

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4050	SHOB-132	60-65	60	65	D	56.04	15.07	34.28	3411	7759	1.8	0.28	0.64
07-C4011	SHOB-132	65-70	65	70	D	51.09	17.38	35.53	3539	7235	2.97	0.91	1.86
07-C3996	SHOB-132	70-75	70	75	D	56.23	9.38	21.43	4273	9763	4.61	0.47	1.07

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.64

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-133

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4004	SHOB-133	45-50	45	50	D	45.56	36.1	66.31	1737	3191	1.53	0.29	0.53
07-C4031	SHOB-133	50-55	50	55	D	50.48	26.89	54.3	2824	5703	1.22	0.39	0.79
07-C4030	SHOB-133	55-60	55	60	D	56.63	16.72	38.55	3204	7388	1.48	0.53	1.22
07-C4027	SHOB-133	60-65	60	65	D	57.63	16.43	38.78	3091	7294	1.29	0.44	1.04

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.65

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-135

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4010	SHOB-135	25-30	25	30	D	25.15	69.39	92.71	250	334	1.1	1.1	1.47
07-C4032	SHOB-135	30-35	30	35	D	25.47	64.34	86.33	583	783	1.14	0.15	0.2
07-C4036	SHOB-135	35-40	35	40	D	26.09	63.43	85.82	835	1130	1.19	0.22	0.3

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.66

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-136

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4033	SHOB-136	40-45	40	45	D	55.65	28.85	65.05	1762	3973	2.17	0.65	1.47
07-C4003	SHOB-136	45-50	45	50	D	60.6	23.16	58.78	1849	4692	1.8	0.22	0.56
07-C3999	SHOB-136	50-55	50	55	D	54.68	17.23	38.02	3382	7463	2.71	0.36	0.79
07-C4000	SHOB-136	55-60	55	60	D	47.09	34.07	64.39	2261	4273	1.32	0.23	0.43

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.67

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-137

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4018	SHOB-137	35-40	35	40	D	57.45	15.09	35.46	3253	7644	1.04	0.5	1.18
07-C4021	SHOB-137	40-45	40	45	D	63	11.94	32.27	3085	8338	0.87	0.43	1.16
07-C4019	SHOB-137	45-50	45	50	D	64.55	9.55	26.94	3146	8876	1.07	0.36	1.02

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.68

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-141

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4008	SHOB-141	85-90	85	90	D	49.73	25.08	49.89	3107	6180	2.14	1.07	2.13
07-C4007	SHOB-141	90-95	90	95	D	56.81	13.2	30.56	3647	8444	2.78	1.1	2.55

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.69

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-143

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
07-C4048	SHOB-143	65-70	65	70	D	51.59	16.12	33.3	3830	7912	3.24	0.22	0.45
07-C4051	SHOB-143	70-75	70	75	D	52.75	11.78	24.93	4246	8987	3.36	0.53	1.12
07-C4014	SHOB-143	75-80	75	80	D	50	20.68	41.36	3548	7096	2.61	0.62	1.24

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.70

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-201

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
10-C990	SHOB-201	60-65	60	65	E	47.03	30.46	57.5	2588	4887	2.15	4.52	8.53
10-C991	SHOB-201	130-135	130	135	D	47.11	28.82	54.49	2972	5619	2.94	3	5.67
10-C992	SHOB-201	135-140	135	140	D	47.61	27.94	53.33	2768	5284	2.66	4.06	7.75
10-C993	SHOB-201	140-145	140	145	D	48.53	30.03	58.34	2524	4903	2.51	2.82	5.48

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent

APPENDIX 2.3-20.71

DETAILED INCREMENTAL ANALYSES FOR THE ROTARY HOLES

SHOB-202

MVTL Lab Number	Hole Number	Sample Interval	From Depth (feet)	To Depth (feet)	Seam	Total Moisture (wt. %)	Ash As Rec (wt. %)	Ash Dry (wt. %)	BTU/lb As Rec	BTU/lb Dry	Sodium Oxide (wt. %)	Sulfur As Rec (wt. %)	Sulfur Dry (wt. %)
10-C987	SHOB-202	80-85	80	85	D	47.29	27.74	52.63	2992	5676	3.51	0.94	1.78
10-C988	SHOB-202	85-90	85	90	D	51.15	19.57	40.06	3515	7196	3.62	1.98	4.05
10-C989	SHOB-202	90-95	90	95	D	54.53	10.51	23.11	4217	9275	5.74	0.47	1.03

MVTL: Minnesota Valley Testing Laboratories Inc.

Rec: Received

BTU/lb: British Thermal Unit per pound

wt. %: weight percent