LOG OF DRILLING

PROJECT: BULL GAP MINE

HOLE NO.: BG-002 | COUNTY: BLOUNT | STATE: ALABAMA

LAT.: 33º59'13.7"N | LONG.: 86º22'0.29"W

SECTION: 18 | TOWNSHIP: 12 SOUTH | RANGE: 3 EAST

DRILLER: MS&R EQUIPMENT COMPANY INC.

DRILL DATE: OCTOBER 20, 2008

SURFACE ELEVATION: 1060.44 FEET

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		WEATHERED SPOILS	1	75
1	75	SANDSTONE (HARD) W/ SHALE STREAKS	48	25
50	00	COAL 0.5' (6") UNDERWOOD MARKER	0	50
50	50	ALTERNATING LAYERS SS/SHALE	27	50
78	00	COAL 3.0' (36") UNDERWOOD SEAM	3	00
81	00	SANDSTONE (HARD) BOTTOM	5	00
86	00	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT: BULL GAP MINE

HOLE NO.: BG-003 | COUNTY: BLOUNT | STATE: ALABAMA

LAT.: 33º59'11.8"N | LONG.: 86º21'57.6"W

SECTION: 18 | TOWNSHIP: 12 SOUTH | RANGE: 3 EAST

DRILLER: MS&R EQUIPMENT COMPANY INC.

DRILL DATE: OCTOBER 22, 2008

SURFACE ELEVATION: 1066.81 FEET

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		WEATHERED SPOILS	2	00
2	00	SANDSTONE (HARD) W/ SHALE STREAKS	54	00
56	00	COAL 0.5' (6") UNDERWOOD MARKER	0	50
56	50	ALTERNATING LAYERS SS/SHALE	21	50
78	00	COAL 2.75' (33") UNDERWOOD SEAM	2	75
80	75	SANDSTONE (HARD) BOTTOM	5	00
85	75	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT: BULL GAP MINE

HOLE NO.: BG-004 | COUNTY: BLOUNT | STATE: ALABAMA

LAT.: 33º59'9.62"N | LONG.: 86º22'54.10"W

SECTION: 18 | TOWNSHIP: 12 SOUTH | RANGE: 3 EAST

DRILLER: MS&R EQUIPMENT COMPANY INC.

DRILL DATE: OCTOBER 24, 2008

SURFACE ELEVATION: 1073.73 FEET

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		WEATHERED SPOILS	00	75
00	75	SANDSTONE (HARD) W/ SHALE STREAKS	73	25
74	00	COAL 2.75' (33") UNDERWOOD SEAM	2	75
76	75	SANDSTONE (HARD) BOTTOM	4	00
80	75	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT: BULL GAP MINE

HOLE NO.: BG-005 | COUNTY: BLOUNT | STATE: ALABAMA

LAT.: 33º59'9.80"N | LONG.: 86º21'49.88"W

SECTION: 18 | TOWNSHIP: 12 SOUTH | RANGE: 3 EAST

DRILLER: MS&R EQUIPMENT COMPANY INC.

DRILL DATE: OCTOBER 24, 2008

SURFACE ELEVATION: 1083.56 FEET

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		WEATHERED SPOILS	2	00
2	00	SANDSTONE (HARD) W/ SHALE STREAKS	71	00
73	00	COAL 2.75' (33") UNDERWOOD SEAM	2	75
75	75	SANDSTONE (HARD) BOTTOM	5	00
80	75	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT:	BULL GAP MINE				
HOLE NO.:	BG-006	COUNTY:	BLOUNT	STATE:	ALABAMA
LAT.:	33º59'10.9"N	LONG.:	86º21'42.1"W		
SECTION:	18	TOWNSHIP:	12 SOUTH	RANGE:	3 EAST
DRILLER:	MS&R EQUIPMENT COMPANY INC.				
DRILL DATE:	NOVEMBER 17, 2008				
SURFACE ELEVATION:	1110.78 FEET				

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		WEATHERED SPOILS	3	25
3	25	SANDSTONE (HARD) W/ SHALE STREAKS	71	20
74	75	COAL 2.75' (33") UNDERWOOD SEAM	2	75
77	20	SANDSTONE (HARD) BOTTOM	4	80
82	00	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT:	BULL GAP MINE				
HOLE NO.:	BG-007	COUNTY:	BLOUNT	STATE:	ALABAMA
LAT.:	34º00'05.9"N	LONG.:	86º20'17.1"W		
SECTION:	18	TOWNSHIP:	12 SOUTH	RANGE:	3 EAST
DRILLER:	MS&R EQUIPMENT COMPANY INC.				
DRILL DATE:	NOVEMBER 17, 2008				
SURFACE ELEVATION:	1196.60 FEET				

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		OLD MINE SPOILS	7	50
7	50	GRAY SANDSTONE (HARD)	36	50
44	00	COAL 0.83' (10") LOWER BYNUM SEAM	0	83
44	83	SANDSTONE (HARD) W/ SHALE LAYERS	68	17
113	00	COAL 2.50' (30") UNDERWOOD SEAM	2	50
115	50	SHALE (HARD FIRECLAY) BOTTOM	5	50
121	00	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT: BULL GAP MINE

HOLE NO.: BG-008 | COUNTY: BLOUNT | STATE: ALABAMA

LAT.: 33º59'33.72"N | LONG.: 86º21'20.75"W

SECTION: 18 | TOWNSHIP: 12 SOUTH | RANGE: 3 EAST

DRILLER: MS&R EQUIPMENT COMPANY INC.

DRILL DATE: NOVEMBER 18, 2008

SURFACE ELEVATION: 1193.33 FEET

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		TOPSOIL W/ RED WEATHERED CLAY	4	75
4	75	WEATHERED SANDSTONE	5	25
10	00	LAYERED SHALE & SANDSTONE	51	00
61	00	COAL 2.83' (34") UPPER BYNUM SEAM	2	83
63	83	DARK GRAY SHALE (SOFT)	29	17
93	00	COAL 0.92' (11") LOWER BYNUM SEAM	0	92
93	92	SANDSTONE (HARD) BOTTOM	4	08
98	00	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT: BULL GAP MINE

HOLE NO.: BG-009 | COUNTY: BLOUNT | STATE: ALABAMA

LAT.: 33º59'43.09"N | LONG.: 86º21'8.21"W

SECTION: 18 | TOWNSHIP: 12 SOUTH | RANGE: 3 EAST

DRILLER: MS&R EQUIPMENT COMPANY INC.

DRILL DATE: NOVEMBER 18, 2008

SURFACE ELEVATION: 1220.59 FEET

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		TOPSOIL W/ RED WEATHERED CLAY	5	60
5	60	WEATHERED SANDSTONE (RED-BROWN)	14	40
20	00	LAYERED SHALE & SANDSTONE	45	00
65	00	COAL 2.50' (30") UPPER BYNUM SEAM	2	50
67	50	DARK GRAY SHALE (SOFT)	34	50
102	00	COAL 1.0' (12") LOWER BYNUM SEAM	1	00
103	00	SANDSTONE (HARD) BOTTOM	5	00
108	00	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT: BULL GAP MINE

HOLE NO.: BG-010 | COUNTY: BLOUNT | STATE: ALABAMA

LAT.: 33º59'28.35"N | LONG.: 86º21'25.35"W

SECTION: 17 | TOWNSHIP: 12 SOUTH | RANGE: 3 EAST

DRILLER: MS&R EQUIPMENT COMPANY INC.

DRILL DATE: NOVEMBER 24, 2008

SURFACE ELEVATION: 1173.69 FEET

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		TOPSOIL W/ RED WEATHERED CLAY	6	25
6	25	WEATHERED SANDSTONE (RED-BROWN)	3	75
10	00	LAYERED SHALE & SANDSTONE	28	00
38	00	COAL 2.00' (24") UPPER BYNUM SEAM	2	00
40	00	DARK GRAY SHALE	32	00
72	00	COAL 0.92' (11") LOWER BYNUM SEAM	0	92
72	92	SANDSTONE (HARD) BOTTOM	4	08
77	00	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT: BULL GAP MINE

HOLE NO.: BG-011 | COUNTY: BLOUNT | STATE: ALABAMA

LAT.: 33º59'24.69"N | LONG.: 86º21'39.70"W

SECTION: 18 | TOWNSHIP: 12 SOUTH | RANGE: 3 EAST

DRILLER: MS&R EQUIPMENT COMPANY INC.

DRILL DATE: MARCH 27, 2009

SURFACE ELEVATION: 1206.42 FEET

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		TOPSOIL W/ RED WEATHERED CLAY	2	45
2	45	WEATHERED SANDSTONE (RED-BROWN)	4	25
6	70	BROWN SANDSTONE (SOFT)	8	30
15	00	LAYERED SHALE & SANDSTONE	92	00
107	00	COAL 2.00' (24") UPPER BYNUM SEAM	2	00
109	00	DARK GRAY SHALE	32	00
141	00	COAL 1.0' (12") LOWER BYNUM SEAM	1	00
142	00	MASSIVE GRAY SANDSTONE	25	00
167	00	COAL 0.50' (6") UNDERWOOD MARKER	0	50
167	50	HARD SANDSTONE (MEDIUM GRAY)	41	50
209	00	COAL 3.00' (36") UNDERWOOD SEAM	3	00
212	00	SANDSTONE (HARD) BOTTOM	5	00
217	00	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT: BULL GAP MINE

HOLE NO.: BG-012 | COUNTY: BLOUNT | STATE: ALABAMA

LAT.: 33º59'22.49"N | LONG.: 86º21'46.10"W

SECTION: 18 | TOWNSHIP: 12 SOUTH | RANGE: 3 EAST

DRILLER: MS&R EQUIPMENT COMPANY INC.

DRILL DATE: APRIL 01, 2009

SURFACE ELEVATION: 1197.47 FEET

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		SUBSOIL W/ RED WEATHERED CLAY	4	50
4	50	RED-BROWN SANDSTONE (MEDIUM SOFT)	15	50
20	00	LAYERED SHALE & SANDSTONE	95	00
115	00	COAL 0.17' (2") UPPER BYN SEAM MARKER	0	17
115	17	DARK GRAY SHALE	34	83
150	00	COAL 1.42' (17") LOWER BYNUM SEAM	1	42
151	42	MASSIVE GRAY SANDSTONE	24	58
176	00	COAL 1.00' (12") UNDERWOOD MARKER	1	00
177	00	SANDSTONE (HARD) BOTTOM	6	00
183	00	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT: BULL GAP MINE

HOLE NO.: BG-013 | COUNTY: BLOUNT | STATE: ALABAMA

LAT.: 33º59'23.49"N | LONG.: 86º21'55.31"W

SECTION: 18 | TOWNSHIP: 12 SOUTH | RANGE: 3 EAST

DRILLER: MS&R EQUIPMENT COMPANY INC.

DRILL DATE: APRIL 07, 2009

SURFACE ELEVATION: 1142.83 FEET

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		SUBSOIL W/ RED WEATHERED CLAY	3	25
3	25	RED-BROWN SANDSTONE (MEDIUM SOFT)	36	75
40	00	LAYERED SHALE & SANDSTONE	54	00
94	00	COAL 0.08' (1") UPPER BYN SEAM MARKER	0	08
94	08	DARK GRAY SHALE	10	92
105	00	COAL 0.17' (2") UPPER BYN SEAM MARKER	0	17
105	17	GRAY SANDSTONE (HARD)	17	83
123	00	COAL 1.00' (12") UNDERWOOD MARKER	1	00
124	00	SANDSTONE (HARD) BOTTOM	6	00
130	00	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT:	BULL GAP MINE				
HOLE NO.:	BG-014	COUNTY:	BLOUNT	STATE:	ALABAMA
LAT.:	33º59'27.19"N	LONG.:	86º21'41.80"W		
SECTION:	18	TOWNSHIP:	12 SOUTH	RANGE:	3 EAST
DRILLER:	MS&R EQUIPMENT COMPANY INC.				
DRILL DATE:	APRIL 07, 2009				
SURFACE ELEVATION:	1205.96 FEET				

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		SUBSOIL W/ WEATHERED CLAY	5	50
5	50	RED-BROWN SANDSTONE (MEDIUM SOFT)	32	50
38	00	LAYERED SHALE & SANDSTONE	98	00
136	00	COAL 1.0' (12") UPPER BYN SEAM (TOPSPLIT)	1	00
137	00	SHALE W/ SANDSTONE STREAKS	5	00
142	00	COAL 0.25' (3") UPPER BYN (LOWER SPLIT)	0	25
142	25	DARK GRAY SHALE	21	75
164	00	COAL 1.33' (16") LOWER BYNUM SEAM	1	33
165	33	HARD MEDIUM GRAY SANDSTONE	2	67
168	00	BOTTOM OF HOLE	—	—

LOG OF DRILLING

PROJECT:	BULL GAP MINE				
HOLE NO.:	BG-015	COUNTY:	BLOUNT	STATE:	ALABAMA
LAT.:	33º59'33.19"N	LONG.:	86º21'45.91"W		
SECTION:	18	TOWNSHIP:	12 SOUTH	RANGE:	3 EAST
DRILLER:	MS&R EQUIPMENT COMPANY INC.				
DRILL DATE:	APRIL 08, 2009				
SURFACE ELEVATION:	1152.78 FEET				

TOTAL FEET & 10THS		STRATA	THICKNESS FEET & 10THS	
TOP/GROUND		TOPSOIL (3")	0	25
0	25	SUBSOIL W/ WEATHERED CLAY	3	25
3	50	RED-BROWN SANDSTONE (MEDIUM SOFT)	8	50
12	00	LAYERED SHALE & SANDSTONE	75	00
87	00	COAL 2.25 (27") UPPER BYNUM SEAM	2	25
89	25	DARK GRAY SHALE	33	75
123	00	COAL 1.00' (12") LOWER BYNUM SEAN	1	00
124	00	HARD MEDIUM GRAY SANDSTONE	3	50
127	50	BOTTOM OF HOLE	—	—