

**GEOTECHNICAL ENGINEERING SERVICES
PROPOSED STETSON MOUNTAIN WIND PROJECT
DANFORTH, MAINE**

07-0215 SEPTEMBER 7, 2007

PREPARED FOR:

Reed & Reed, Inc.
Attention: Patrick A. DeFilipp, PE
Senior Project Manager
P.O. Box 370
Woolwich, ME 04579

PREPARED BY:



Robert E. Chaput, Jr., P.E.
Senior Geotechnical Engineer
555 Eastern Avenue
Augusta, Maine 04330

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07-0215 S

September 7, 2007

Reed & Reed
Attention: Patrick A. DeFilipp, PE
Senior Project Manager
P.O. Box 370
Woolwich, ME 04579

Subject: Geotechnical Engineering Services
Roadway and Slope Construction Recommendations
Proposed Stetson Mountain Wind Project
Danforth, Maine

Dear Patrick:

As outlined in our Agreement dated August 10, 2007, we have observed a subsurface investigation program and provided geotechnical engineering services for the proposed Stetson Mountain Wind Project in Danforth, Maine. This report presents our findings and recommendations and its contents are subject to the limitations set forth in Attachment A.

1.0 INTRODUCTION

1.1 Scope of Work

The purpose of the investigation was to explore the subsurface conditions along the proposed access roadways and summit roadways and provide recommendations for construction of the roadways. Our investigation of the site included observation of ten test pits, laboratory testing and a geotechnical evaluation of the findings as they relate to the proposed construction. We also utilized information obtained from the wind turbine sites test borings as part of our evaluation.

1.2 Proposed Construction

We understand that the project includes construction of 38 GE 1.5MW SLE wind turbine generators and associated gravel access roadways and summit roads to the sites. Portions of the existing gravel roadways will be rehabilitated and widened in order to be utilized as part of the access roadways and summit roads. The access roadways will generally be 16 feet wide while the summit roads will be 32 feet wide. The turbine pads will transition from the summit roads and be gravel surfaced on the order of 250 feet in

diameter. The side slopes of the roadways and turbine pads will primarily be 2H:1V with a few areas as steep as 1 1/2H:1V.

2.0 EXPLORATION AND TESTING

2.1 Exploration

Sargent Corporation of Stillwater, Maine made ten test pits (TP-1 through TP-10) at the site on July 31, 2007. The exploration locations were selected by J.W. Sewall Company and located in the field utilizing GPS by Reed & Reed, Inc. The exploration locations were performed at stationing shown on the attached Sheet 1. Logs of the explorations, based on our field observations and laboratory testing of samples, are attached as Sheets 2 through 6. A key to the notes and symbols used on the logs is attached as Sheet 7.

2.2 Laboratory Testing

Laboratory testing was performed on selected samples recovered from the explorations. The results of four gradation analyses are presented on Sheets 8 through 11. The results of four moisture density relationships are presented on Sheets 12 through 15. The results of one direct shear test are shown on Sheet 16. The results of four California Bearing Ratio (CBR) tests are presented on Sheets 17 through 20.

3.0 SUBSURFACE FINDINGS

3.1 Soil Conditions

The test pits generally encountered 0.2 to 1.0 feet of organic topsoil/forest duff overlying native silty sandy gravel with varying amounts of cobbles (glacial till) or weathered rock with some silty sand. Test pits TP-2, TP-8 and TP-9 encountered silty sand with some gravel (roadway fill) overlying glacial till. Test pit TP-2 encountered a thin layer of relic topsoil beneath roadway fill. Test pits TP-1, TP-3 through TP-9 were terminated at refusal surfaces (probable bedrock) at depths of 2.7, 4.0, 3.0, 2.0, 3.2, 1.7, 3.0, and 3.6 feet, respectively. Test pits TP-2 and TP-10 were terminated in the native glacial till at depths of 8.5 and 6.0 feet, respectively.

3.2 Groundwater

Groundwater was not encountered in the test pits at the time of exploration work. Due to the short period of exploration work, groundwater level information is limited. Groundwater levels will fluctuate seasonally.

4.0 EVALUATION AND RECOMMENDATIONS

4.1 Global Stability Analysis

We performed global stability analysis using the XSTABL Ver. 5 software License # 1775 based upon the following:

- Subsurface information obtained from explorations
- Grading plans dated 9/04/07 provided by J.W. Sewall Company
- Minimum of 2 feet of riprap surface on 1.5H:1V slopes
- Laboratory testing of samples

Based on our analyses, and using a factor of safety of 1.3 or greater we have identified the proposed 1.5H:1V slopes that were analyzed and provided comments for improving stability as follows:

Location	Proposed Slope	Comments
Sta. 204+50 to 210+00	1.5H:1V Fill	Needs blast rock fill
South Slope of Turbine 16 Pad	1.5H:1V Fill	Needs blast rock fill
West Slope of Turbine 17 Pad	1.5H:1V Fill	Needs blast rock fill
North Slope of Turbine 18 Pad	1.5H:1V Fill	Needs blast rock fill
Southwest Slope of Turbine 19 Pad	1.5H:1V Fill	Needs blast rock fill
Northwest Slope of Turbine 20 Pad	1.5H:1V Fill	Needs blast rock fill
Southwest Slope of Turbine 20 Pad	1.5H:1V Fill	Needs blast rock fill

4.2 Slope Surface Treatments

4.2.1 Rip Rap Slopes 1.5H:1V to 2H:1V

Proposed fill slopes constructed to 1.5H:1V slopes must be covered with at least 2 feet of riprap. Material needed to construct the embankment to a 1.5H:1V slope should be blast rock fill. Excavated blast rock should be broken to various sizes that will form a compact fill with a minimum of voids. Blasted rock should meet the gradation requirements for Maine Department of Transportation (MEDOT) Standard Specification 703.21 "Rock Borrow" with a maximum particle size of 2 feet. Rock fills should be choked such that granular borrow materials do not infiltrate into the rock fill. Fill slopes should be constructed as level benches, which are overbuilt to facilitate compaction. The benches should be cut into the native ground surface to key the new fill to the existing slope. Slope fills should be placed in loose lifts not greater than two feet and be compacted utilizing vibratory roller compactor capable of imposing a dynamic load of at least 15 kips. The final slope face should be constructed by cutting back into the compacted core. The toe of riprap should be keyed into the existing ground surface a minimum of 2.0 feet. Further, lateral edges where the riprap terminates along the face of the embankment should be similarly keyed into the ground surface. We recommend that the riprap consist of rock with a maximum size of 18 inches and a $d_{50} = 9$ inches. The voids within the rip rap can be infilled with erosion control mix to facilitate the development of vegetation on the slope.

4.2.2 Slopes 2H:1V to 3H:1V

The proposed fill slopes that will be built on existing grades at inclinations of 2H:1V or flatter will not require continuous benching of the native ground surface prior to placing embankment and fill slope material. However, we recommend that a 5-foot wide bench be cut into the native soils below the toe of fill slopes. A 1-foot thick (minimum) drainage blanket of rock borrow should be placed over the bench prior to placing fill soils. Fill slope faces should be constructed as level benches, which are overbuilt to facilitate compaction. The final slope face should be constructed by cutting back into the compacted core.

The slopes planned are susceptible to surface erosion, slumping and sloughing, particularly during heavy rain and freeze/thaw events. Topsoil and seed should be installed, as soon as practicable, to create a vegetated mat over the entire surface of the

slope. For slopes steeper than 2.5H:1V, we recommend the use of UV resistant synthetic erosion control mesh to reinforce the surface soils until the vegetated mat is established, particularly if constructed during the winter or spring seasons. In areas where surface water is concentrated and discharged over the slope, we recommend covering the slope with small diameter rip-rap placed over a layer of crushed gravel and a woven filter fabric.

4.3 Excavation Work

Excavation work will encounter forest duff, topsoil, granular fill, glacial till soils and bedrock. The native soils can undergo substantial strength loss when subjected to construction traffic and excavation activities, particularly during periods of precipitation and shallow groundwater levels. Care must be exercised to minimize disturbance of the bearing soils. Geotextile fabric may be needed over saturated subgrades prior to placement of new fill.

Bedrock removal will be needed within a majority of the roadway construction. We recommend that an experienced drilling and blasting contractor be engaged to do the rock removal and that the contractor be required to submit qualifications and references prior to the excavation.

Excavations must be sloped or adequately shored to prevent sloughing and caving of the sidewalls during construction. We recommend that temporary unsupported soil excavations be cut to a slope of 1.5 horizontal to 1 vertical or flatter. Bedrock excavations should be sloped back to a stable condition, which will depend on rock fracturing. We recommend that an S. W. COLE ENGINEERING, INC. geologist observe the bedrock slopes during construction. All excavations should be consistent with the OSHA trenching regulations.

The contractor should anticipate the need for dewatering excavations. Ditching with gravity drainage and sumping and pumping should be adequate. Controlling the water level to at least 1-foot below subgrade elevation will reduce disturbance of the subgrade soils and provide a more stable working surface during construction.

4.4 Backfill and Compaction

The on-site glacial till soils and rock borrow generated from mass excavation and from onsite blasting activities can be used as embankment fill. The suitability of re-use of the native glacial till will be highly dependent upon weather conditions and soil moisture content at the time of use. Excavated blast rock should be broken to various sizes that will form a compact fill with a minimum of voids. Blasted rock should meet the gradation requirements for MEDOT Standard Specification 703.21 "Rock Borrow" with a maximum particle size of 2 feet. Rock fills should be choked such that granular borrow materials do not infiltrate into the rock fill.

Depending on cut/fill quantities some import material may be needed. Embankment fills below the roadways should consist of granular material meeting the requirements of MeDOT Standard Specification 703.19 "Granular Borrow for Embankment Construction". The maximum particle size should not exceed two-thirds of the proposed loose lift thickness.

Crushed stone used to fill voids over the rock borrow fill and in fractured bedrock surfaces (choke layer) should meet the gradation requirements below.

	PERCENT FINE BY WEIGHT
Sieve Size	Crushed Stone (Choke Stone)
3-inch	100
3/4 -inch	40-75
#4	25-50
#40	0-20
#200	0-8

All fill should be placed in horizontal lifts and be compacted such that desired density is achieved throughout the lift thickness. We recommend that loose lift thickness for soil fills not exceed 12 inches.

All new site fills placed below roadways and within slopes and embankments should be compacted to 95 percent. Surface gravel and subbase materials should be compacted to 95 percent. Crushed stone should be compacted to 100 percent of its dry rodded unit weight as determined by ASTM C-29.

4.5 Roadway Section

The access and summit roadways will be subject to construction vehicles, an assembly crane and transport vehicles carrying the turbine parts. Based on our understanding of the road specifications and anticipated crane loading, we offer the following roadway section for consideration.

Gravel Roadway Section

- 12 inches Aggregate Subbase – Type D

The subbase materials should meet MEDOT specifications. The aggregate subbase materials should be compacted to at least 95 percent of their maximum dry density as determined by ASTM D-1557. We recommend that fill placed below the aggregate subbase material as embankment to subgrade level be compacted to at least 95 percent of its maximum dry density as determined by ASTM D-1557.

In order to reduce the loss of surface material during heavy rain events the roadway should be sloped such to allow the water to flow to the adjacent ditches as soon as possible.

Based on the transport equipment loading information provided, culverts designed for H20 loading should have a minimum of 2 feet of cover.

4.6 Weather Considerations

The site soils are sensitive to moisture and frost. As such, these soils lose strength and become disturbed during wet and freezing conditions. In all cases, sitework and construction activities should take appropriate measures to protect exposed subgrades.

The site soils may require drying and thawing before activities may continue. The contractor should anticipate the need for moisture conditioning of fills to facilitate compaction during dry or wet weather.

Construction activity during wet and cold weather should be undertaken in a manner that considers construction schedule relative to frozen soils. If foundation construction takes place during cold/freezing weather conditions, subgrades must be protected from freezing conditions. Subsequent lifts of soil must not be placed on frozen soil and once placed, the soil must be protected from freezing.

The native glacial till material will be difficult to re-use during wet and cold weather, and the amount of fine sand and silt may create difficulties for reuse during freezing conditions. We recommend that either filling be limited during these times or alternative materials that have better drainage characteristics and are non-frost susceptible be used.

4.7 Design Review and Construction Testing

S.W. COLE ENGINEERING, INC. should be retained to review the final design and specifications to determine that our earthwork recommendations have been properly interpreted and implemented. It is recommended that S.W. COLE ENGINEERING, INC. periodically observe the construction of the fill embankments and roadways in order to observe compliance with the design concepts, plans and specifications. S. W. COLE ENGINEERING is available to provide construction observation and testing services for soils, and concrete associated with the proposed construction.



07-0215 S
September 7, 2007

5.0 CLOSURE

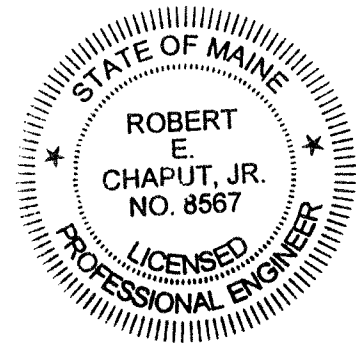
It has been a pleasure to be of assistance to you with this phase of your project. If you have any questions, please do not hesitate to contact us.

Sincerely,

S. W. COLE ENGINEERING, INC.

A handwritten signature in cursive script that reads 'Robert E. Chaput, Jr.'.

Robert E. Chaput, Jr., P.E.
Senior Geotechnical Engineer



REC:kml

Attachment A **Limitations**

This report has been prepared for the exclusive use of Reed & Reed, Inc. for specific application to the proposed Stetson Mountain Wind project in Danforth, Maine. S. W. COLE ENGINEERING, INC. has endeavored to conduct the work in accordance with generally accepted soil and foundation engineering practices. No warranty, expressed or implied, is made.

The soil profiles described in the report are intended to convey general trends in subsurface conditions. The boundaries between strata are approximate and are based upon interpretation of exploration data and samples.

The analyses performed during this investigation and recommendations presented in this report are based in part upon the data obtained from subsurface explorations made at the site. Variations in subsurface conditions may occur between explorations and may not become evident until construction. If variations in subsurface conditions become evident after submission of this report, it will be necessary to evaluate their nature and to review the recommendations of this report.

Observations have been made during exploration work to assess site groundwater levels. Fluctuations in water levels will occur due to variations in rainfall, temperature, and other factors.

Recommendations contained in this report are based substantially upon information provided by others regarding the proposed project. In the event that any changes are made in the design, nature, or location of the proposed project, S. W. COLE ENGINEERING, INC. should review such changes as they relate to analyses associated with this report. Recommendations contained in this report shall not be considered valid unless the changes are reviewed by S. W. COLE ENGINEERING, INC.

**Stetson Mountain Wind Project
Proposed Roadway Exploration Locations**

Test Pit No.	Test Pit Location
TP-1	Sta. 47+50, Center Line – Proposed Road
TP-2	Sta. 144+50, 9' Right – Existing Road
TP-3	Sta. 206+00, 9' Right – Existing Road
TP-4	Sta. 231+00, 6' Left – Existing Road
TP-5	Sta. 235+25, 6' Left – Existing Road
TP-6	Sta. 237+00, 6' Left – Existing Road
TP-7	Sta. 290+75, 5' Left – Existing Road
TP-8	Sta. 351+00, 13' Left – Existing Road
TP-9	Sta. 352+00, 9' Left – Existing Road
TP-10	Sta. 436+00, 6' Left – Existing Road



TEST PIT LOGS

PROJECT/CLIENT: STETSON MOUNTAIN WIND PROJECT / REED & REED, INC.
 LOCATION: STETSON MOUNTAIN, DANFORTH, MAINE
 BACKHOE FIRM: SARGENT CORP. OPERATOR: _____

PROJECT NO.: 07-0215
 SWC REP.: REC

TEST PIT <u>TP-1</u>			
DATE: <u>7/31/2007</u>		SURFACE ELEVATION: <u>NOT AVAIL.</u>	LOCATION: <u>STA 47+50, CL, PROP. ROAD</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.5'	DARK BROWN TOPSOIL / FOREST DUFF	w = 13.0% MAX. DRY DENSITY= 127.6 pcf OPT. MOISTURE CONTENT = 10.5%
S-1	2'	BROWN SILTY SANDY GRAVEL WITH COBBLES (TILL)	
	2.7'	REFUSAL AT 2.7' (PROBABLE BEDROCK)	
COMPLETION DEPTH: <u>2.7'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	

TEST PIT <u>TP-2</u>			
DATE: <u>7/31/2007</u>		SURFACE ELEVATION: <u>NOT AVAIL.</u>	LOCATION: <u>STA 144+50, 9R, EXIST. ROAD</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	1.5'	BROWN SILTY SAND WITH GRAVEL (ROADWAY FILL)	~ MOIST ~
	1.7'	DARK BROWN ORGANIC WITH TRACE ROOTS (OLD GROUND SURFACE)	
		BROWN GRAVELLY SAND AND SILT WITH COBBLES (TILL)	
	8.5'	BOTTOM OF EXPLORATION AT 8.5'	
COMPLETION DEPTH: <u>8.5'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	



S.W. COLE ENGINEERING, INC.

TEST PIT LOGS

PROJECT/CLIENT: STETSON MOUNTAIN WIND PROJECT / REED & REED, INC.
 LOCATION: STETSON MOUNTAIN, DANFORTH, MAINE
 BACKHOE FIRM: SARGENT CORP. OPERATOR: _____

PROJECT NO.: 07-0215
 SWC REP.: REC

TEST PIT <u>TP-5</u>			
DATE: <u>7/31/2007</u>		SURFACE ELEVATION: <u>NOT AVAIL.</u>	LOCATION: <u>STA 235+25, 6'L, EXIST. ROAD</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	2.0'	BROWN GRAVELLY SILTY SAND WITH FRACTURED ROCK (ROADWAY FILL)	
		REFUSAL AT 2.0' (PROBABLE BEDROCK)	
COMPLETION DEPTH: <u>2.0'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	

TEST PIT <u>TP-6</u>			
DATE: <u>7/31/2007</u>		SURFACE ELEVATION: <u>NOT AVAIL.</u>	LOCATION: <u>STA 237+00, 6'L, EXIST. ROAD</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.2'	TOPSOIL	w = 23.3% MAX. DRY DENSITY = 119.2 pcf OPT. MOISTURE CONTENT = 12.8%
	1.0'	RUST BROWN GRAVELLY SILTY SAND (TILL)	
S-1	2'	BROWN GRAVELLY SILTY SAND WITH COBBLES (TILL)	
	2.5'	SLOPING ROCK SURFACE	
	3.2'	REFUSAL AT 3.2' (PROBABLE BEDROCK)	
COMPLETION DEPTH: <u>3.2'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	



S.W. COLE ENGINEERING, INC.

TEST PIT LOGS

PROJECT/CLIENT: STETSON MOUNTAIN WIND PROJECT / REED & REED, INC.
 LOCATION: STETSON MOUNTAIN, DANFORTH, MAINE
 BACKHOE FIRM: SARGENT CORP. OPERATOR: _____

PROJECT NO.: 07-0215
 SWC REP.: REC

TEST PIT <u>TP-7</u>			
DATE: <u>7/31/2007</u>		SURFACE ELEVATION: <u>NOT AVAIL.</u>	LOCATION: <u>STA 290+75, 5'L, EXIST. ROAD</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.3'	DARK BROWN TOPSOIL	
	1.7'	WEATHERED, FRACTURED BEDROCK	
		REFUSAL AT 1.7' (PROBABLE BEDROCK)	
COMPLETION DEPTH: <u>1.7'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	

TEST PIT <u>TP-8</u>			
DATE: <u>7/31/2007</u>		SURFACE ELEVATION: <u>NOT AVAIL.</u>	LOCATION: <u>STA 351+00, 13'L, EXIST. ROAD</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	1.0'	BROWN SILTY GRAVELLY SAND (ROADWAY FILL)	w = 26.2% MAX. DRY DENSITY= 109.5 pcf OPT. MOISTURE CONTENT = 16.7%
S-1	1.5'	BROWN GRAVELLY SILT AND SAND WITH COBBLES (TILL) SLOPING ROCK SURFACE	
	3.0'	REFUSAL AT 3.0' (PROBABLE BEDROCK)	
COMPLETION DEPTH: <u>3.0'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	



TEST PIT LOGS

PROJECT/CLIENT: STETSON MOUNTAIN WIND PROJECT / REED & REED, INC.
 LOCATION: STETSON MOUNTAIN, DANFORTH, MAINE
 BACKHOE FIRM: SARGENT CORP. OPERATOR: _____

PROJECT NO.: 07-0215
 SWC REP.: REC

TEST PIT <u>TP-9</u>			
DATE: <u>7/31/2007</u>		SURFACE ELEVATION: <u>NOT AVAIL.</u>	LOCATION: <u>STA 352+00, 9'L, EXIST. ROAD</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.5'	DARK BROWN TOPSOIL	
	1.3'	DARK BROWN GRAVELLY SILTY SAND (ROADWAY FILL)	
	1.3'	RUST BROWN GRAVELLY SILT AND SAND WITH COBBLES (TILL)	
	2.5'	SLOPING ROCK SURFACE	
	3.6'	REFUSAL AT 3.6' (PROBABLE BEDROCK)	
COMPLETION DEPTH: <u>3.6'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	

TEST PIT <u>TP-10</u>			
DATE: <u>7/31/2007</u>		SURFACE ELEVATION: <u>NOT AVAIL.</u>	LOCATION: <u>STA 436+00, 6'L, EXIST. ROAD</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.2'	DARK BROWN TOPSOIL	w = 10.8% ~ MOIST ~ MAX. DRY DENSITY = 138.8 pcf OPT. MOISTURE CONTENT = 6.4%
	2.5'	BROWN SILTY GRAVELLY SAND WITH COBBLES (TILL)	
S-1	2.5'		
	4.7'	SLOPING ROCK SURFACE	
	6.0'	BOTTOM OF EXPLORATION AT 6.0' (NOT REFUSAL- ON NORTH SIDE OF PIT)	
COMPLETION DEPTH: <u>6.0'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	



KEY TO THE NOTES & SYMBOLS Test Boring and Test Pit Explorations

All stratification lines represent the approximate boundary between soil types and the transition may be gradual.

Key to Symbols Used:

w	-	water content, percent (dry weight basis)
q _u	-	unconfined compressive strength, kips/sq. ft. - based on laboratory unconfined compressive test
S _v	-	field vane shear strength, kips/sq. ft.
L _v	-	lab vane shear strength, kips/sq. ft.
q _p	-	unconfined compressive strength, kips/sq. ft. based on pocket penetrometer test
O	-	organic content, percent (dry weight basis)
W _L	-	liquid limit - Atterberg test
W _P	-	plastic limit - Atterberg test
WOH	-	advance by weight of hammer
WOM	-	advance by weight of man
WOR	-	advance by weight of rods
HYD	-	advance by force of hydraulic piston on drill
RQD	-	Rock Quality Designator - an index of the quality of a rock mass. RQD is computed from recovered core samples.
γ _T	-	total soil weight
γ _B	-	buoyant soil weight
f	-	finer content (percent by weight passing U.S. No. 200 Sieve)

Description of Proportions:

0 to 5% TRACE
5 to 12% SOME
12 to 35% "Y"
35+% AND

REFUSAL: Test Boring Explorations - Refusal depth indicates that depth at which, in the drill foreman's opinion, sufficient resistance to the advance of the casing, auger, probe rod or sampler was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

REFUSAL: Test Pit Explorations - Refusal depth indicates that depth at which sufficient resistance to the advance of the backhoe bucket was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

Although refusal may indicate the encountering of the bedrock surface, it may indicate the striking of large cobbles, boulders, very dense or cemented soil, or other buried natural or man-made objects or it may indicate the encountering of a harder zone after penetrating a considerable depth through a weathered or disintegrated zone of the bedrock.

Project Name DANFORTH ME - PROPOSED WIND PROJECT - GEOTECHNICAL
ENGINEERING SERVICES

Project Number 07-0215

Lab ID 3484A

Client REED & REED, INC.

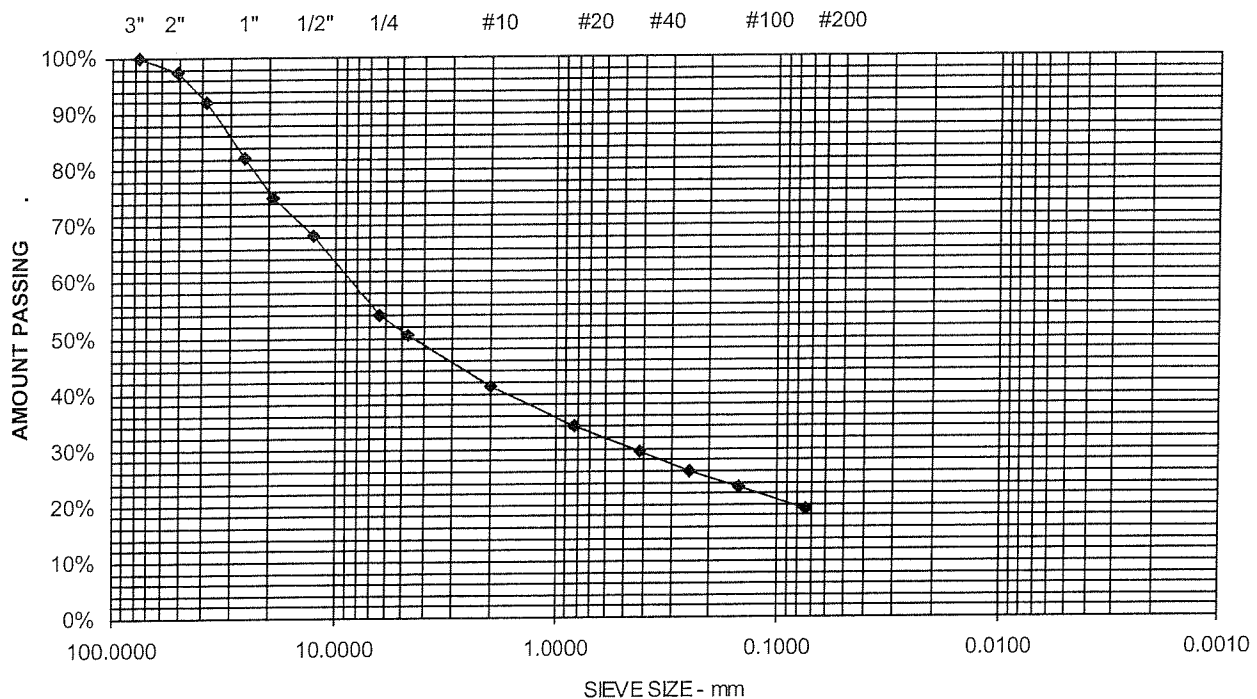
Date Received 8/2/2007

Date Complete 8/3/2007

Material Source TP-1,S-1,47+50

Tested By RYAN BRAGG

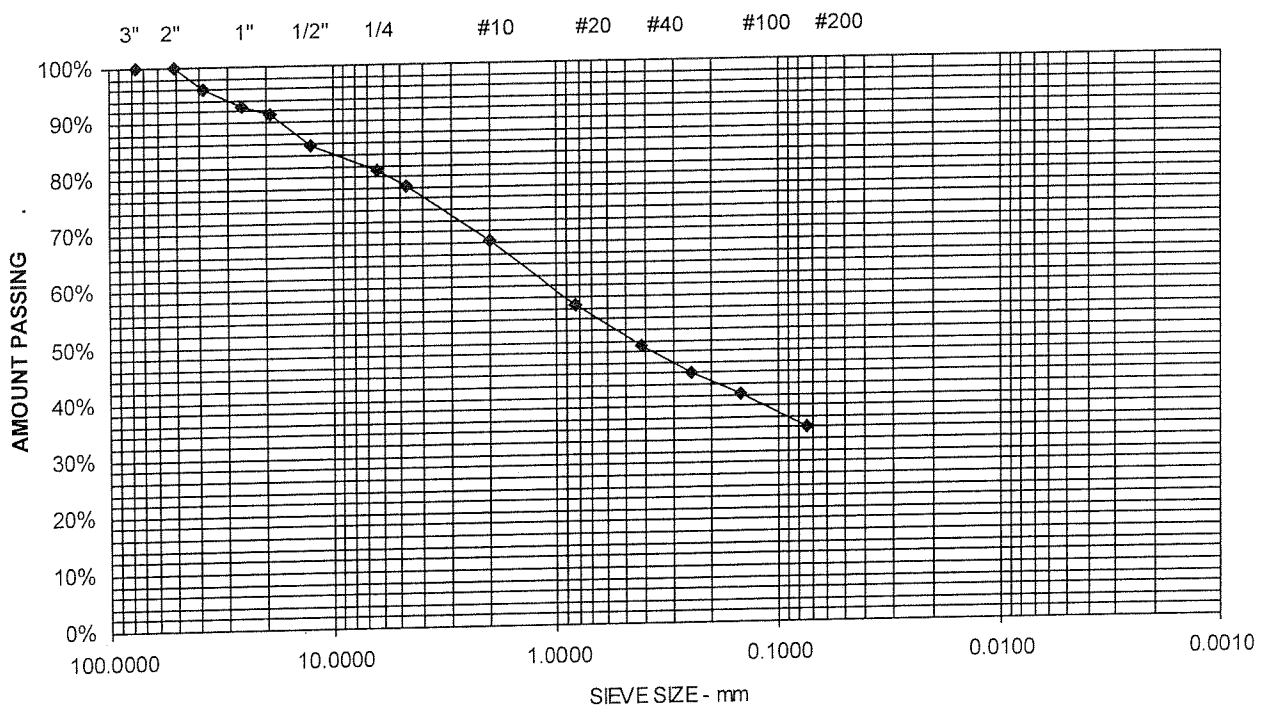
<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	98	
38.1 mm	1-1/2"	92	
25.0 mm	1"	82	
19.0 mm	3/4"	75	
12.5 mm	1/2"	68	
6.3 mm	1/4"	54	
4.75 mm	No. 4	51	49.4% Gravel
2.00 mm	No. 10	41	
850 μm	No. 20	34	
425 μm	No. 40	29	31.5% Sand
250 μm	No. 60	26	
150 μm	No. 100	23	
75 μm	No. 200	19.1	19.1% Fines



Project Name DANFORTH ME - PROPOSED WIND PROJECT - GEOTECHNICAL
ENGINEERING SERVICES
Client REED & REED, INC.
Material Source TP-6,S-1,231+00

Project Number 07-0215
Lab ID 3483A
Date Received 8/2/2007
Date Complete 8/3/2007
Tested By RYAN BRAGG

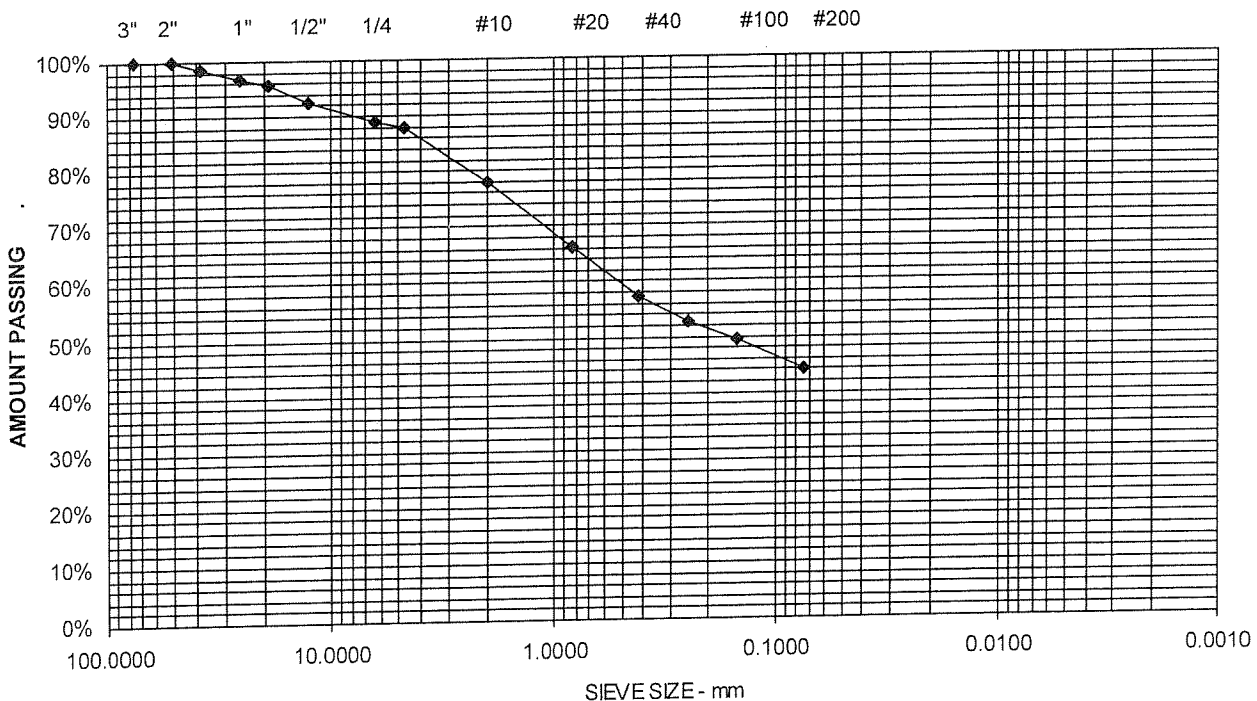
<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	96	
25.0 mm	1"	93	
19.0 mm	3/4"	91	
12.5 mm	1/2"	86	
6.3 mm	1/4"	81	
4.75 mm	No. 4	78	21.6% Gravel
2.00 mm	No. 10	68	
850 μm	No. 20	57	
425 μm	No. 40	49	44.1% Sand
250 μm	No. 60	44	
150 μm	No. 100	40	
75 μm	No. 200	34.3	34.3% Fines



Project Name DANFORTH ME - PROPOSED WIND PROJECT - GEOTECHNICAL
ENGINEERING SERVICES
Client REED & REED, INC.
Material Source TP-8,S-1,351+00

Project Number 07-0215
Lab ID 3482A
Date Received 8/2/2007
Date Complete 8/3/2007
Tested By RYAN BRAGG

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	99	
25.0 mm	1"	97	
19.0 mm	3/4"	96	
12.5 mm	1/2"	92	
6.3 mm	1/4"	89	
4.75 mm	No. 4	88	12.2% Gravel
2.00 mm	No. 10	78	
850 um	No. 20	66	
425 um	No. 40	57	43.8% Sand
250 um	No. 60	53	
150 um	No. 100	50	
75 um	No. 200	44.0	44% Fines



Project Name DANFORTH ME - PROPOSED WIND PROJECT - GEOTECHNICAL
ENGINEERING SERVICES

Project Number 07-0215

Client REED & REED, INC.

Lab ID 3485A

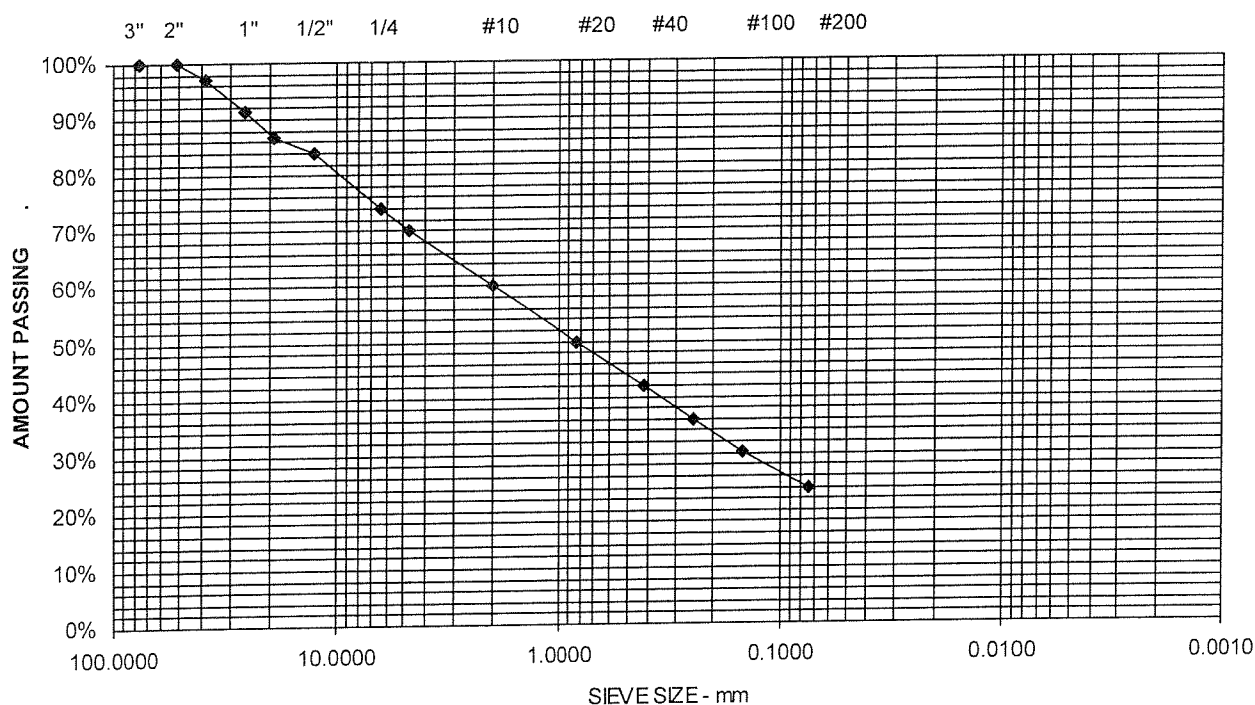
Date Received 8/2/2007

Date Complete 8/3/2007

Material Source TP-10,S-1,436+00

Tested By RYAN BRAGG

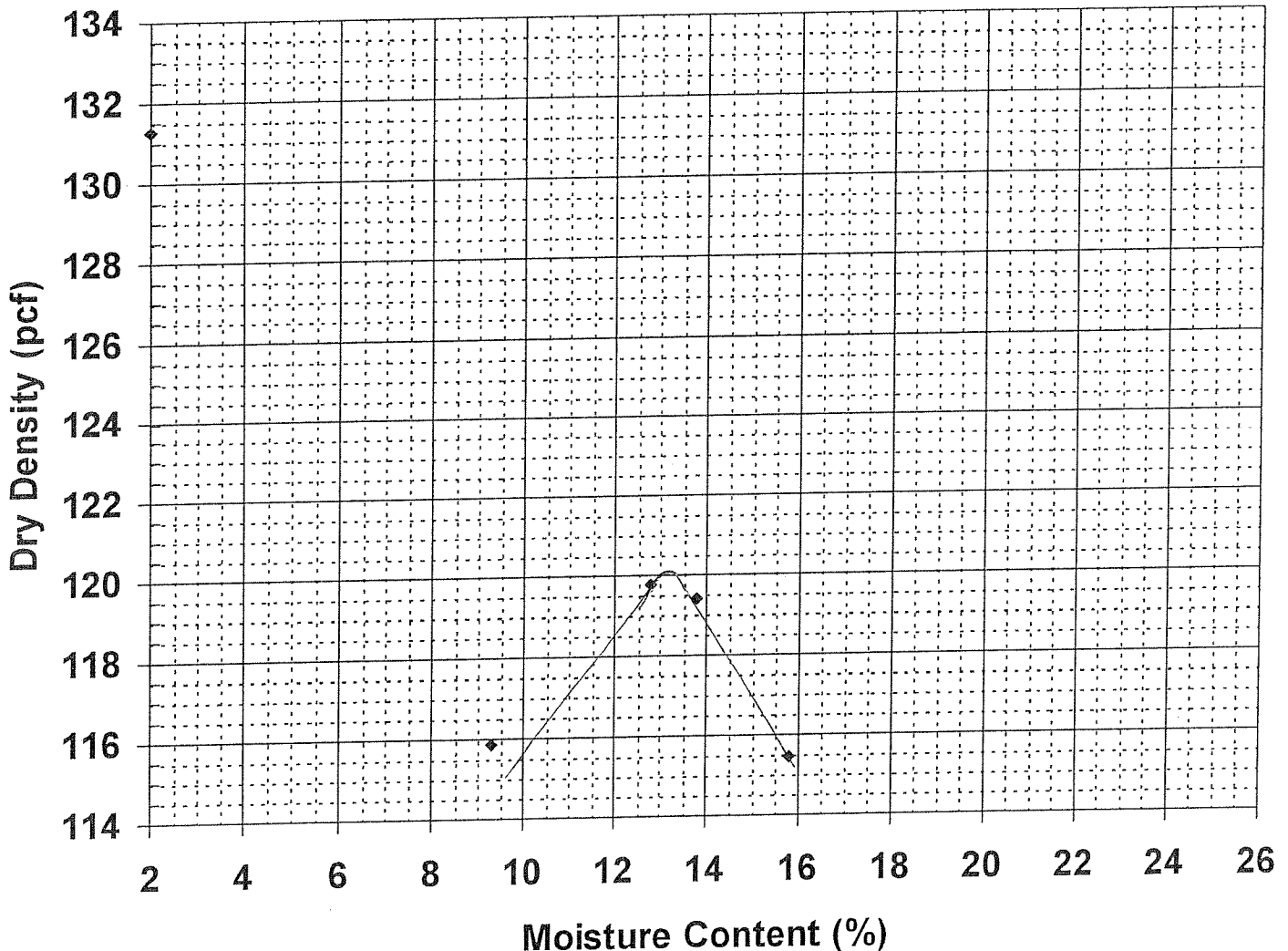
<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	97	
25.0 mm	1"	91	
19.0 mm	3/4"	87	
12.5 mm	1/2"	84	
6.3 mm	1/4"	74	
4.75 mm	No. 4	70	29.9% Gravel
2.00 mm	No. 10	60	
850 μm	No. 20	50	
425 μm	No. 40	42	46.2% Sand
250 μm	No. 60	36	
150 μm	No. 100	30	
75 μm	No. 200	23.9	23.9% Fines



Project Name DANFORTH ME - PROPOSED WIND PROJECT -
GEOTECHNICAL ENGINEERING SERVICES
Client REED & REED, INC.
Material Type
Material Source TP-1,S-1,47+50

Project Number 07-0215
Lab ID 3484A
Date Received 8/2/2007
Date Completed 8/3/2007
Tested By RYAN BRAGG

Moisture-Density Relationship Curve



Maximum Dry Density (pcf) 120.1
Optimum Moisture Content (%) 13.3
Percent Oversized 24.9%

Corrected Dry Density (pcf) **127.6**
Corrected Moisture Content (%) **10.5**

Comments

R. L. Bragg



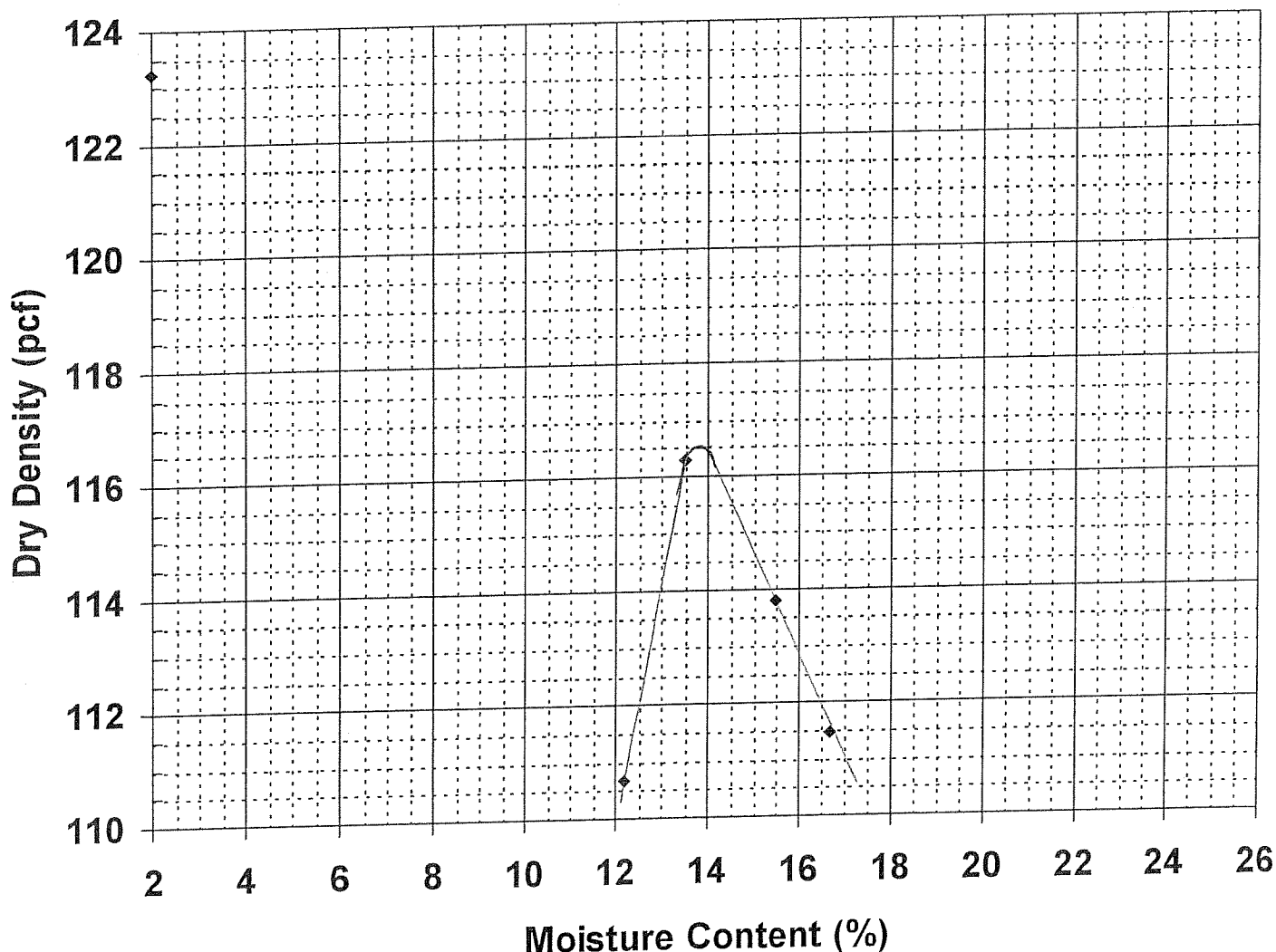
Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name DANFORTH ME - PROPOSED WIND PROJECT -
 GEOTECHNICAL ENGINEERING SERVICES
 Client REED & REED, INC.
 Material Type
 Material Source TP-6, S-1, 231+00

Project Number 07-0215
 Lab ID 3483A
 Date Received 8/2/2007
 Date Completed 8/6/2007
 Tested By RYAN BRAGG

Moisture-Density Relationship Curve



Maximum Dry Density (pcf) 116.5
 Optimum Moisture Content (%) 13.8
 Percent Oversized 8.7%

Corrected Dry Density (pcf) **119.2**
Corrected Moisture Content (%) **12.8**

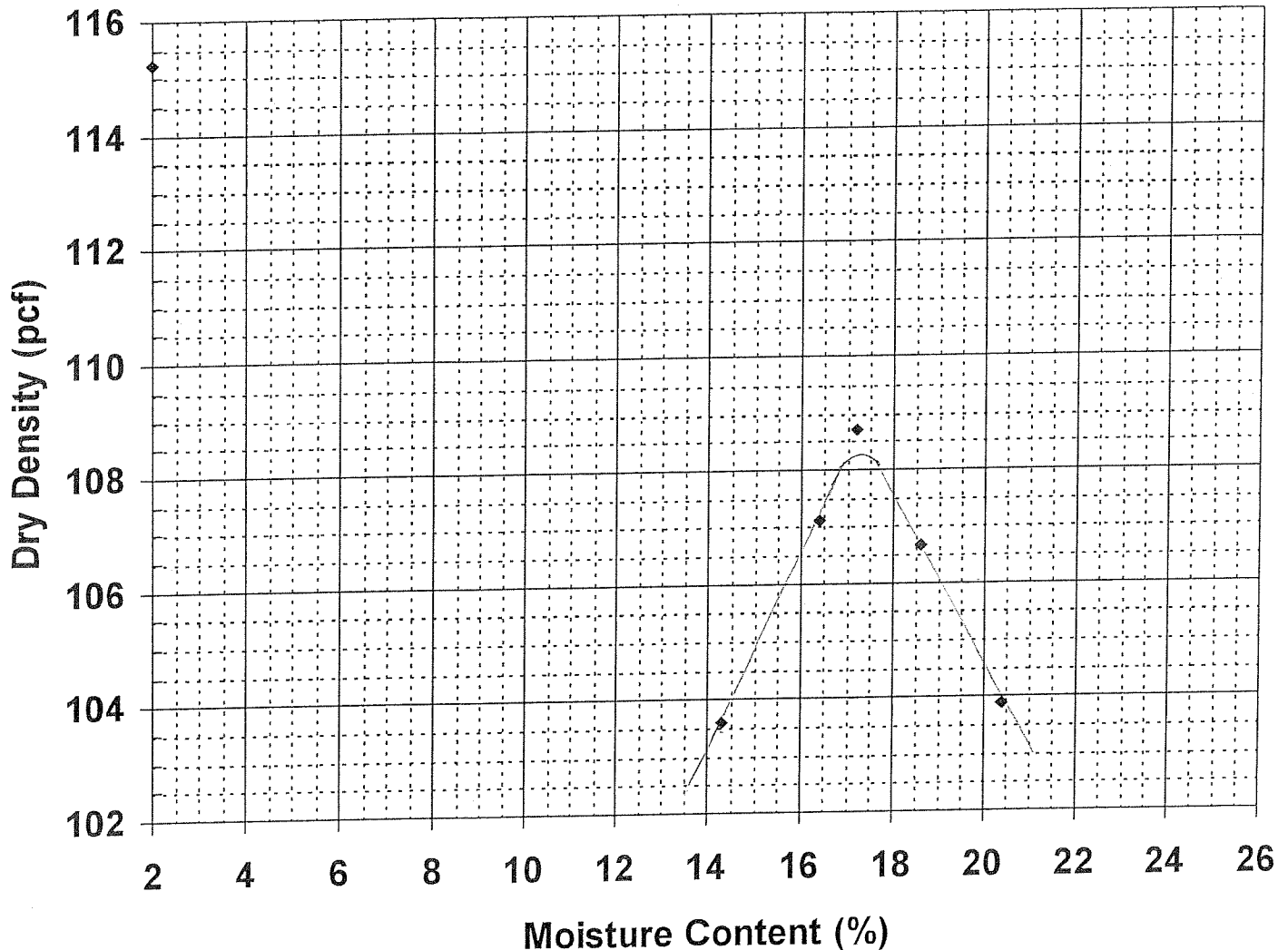
Comments

R. L. Bragg

Project Name DANFORTH ME - PROPOSED WIND PROJECT -
GEOTECHNICAL ENGINEERING SERVICES
Client REED & REED, INC.
Material Type
Material Source TP-8,S-1,351+00

Project Number 07-0215
Lab ID 3482A
Date Received 8/2/2007
Date Completed 8/3/2007
Tested By RYAN BRAGG

Moisture-Density Relationship Curve



Maximum Dry Density (pcf) 108.1
Optimum Moisture Content (%) 17.3
Percent Oversized 4.2%

Corrected Dry Density (pcf) **109.5**
Corrected Moisture Content (%) **16.7**

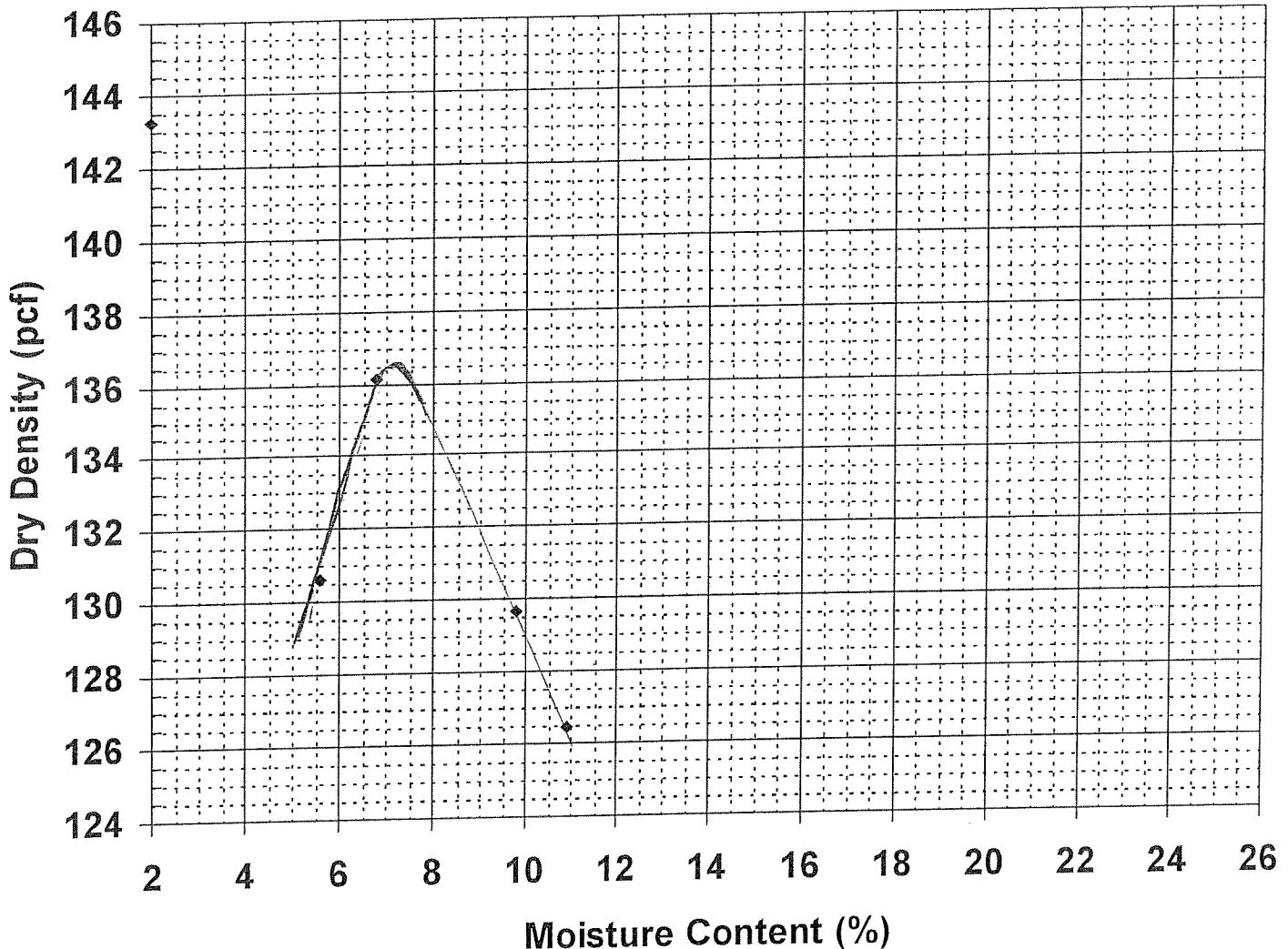
Comments

R. L. Bragg

Project Name DANFORTH ME - PROPOSED WIND PROJECT -
GEOTECHNICAL ENGINEERING SERVICES
Client REED & REED, INC.
Material Type
Material Source TP-10,S-1,436+00

Project Number 07-0215
Lab ID 3485A
Date Received 8/2/2007
Date Completed 8/6/2007
Tested By RYAN BRAGG

Moisture-Density Relationship Curve

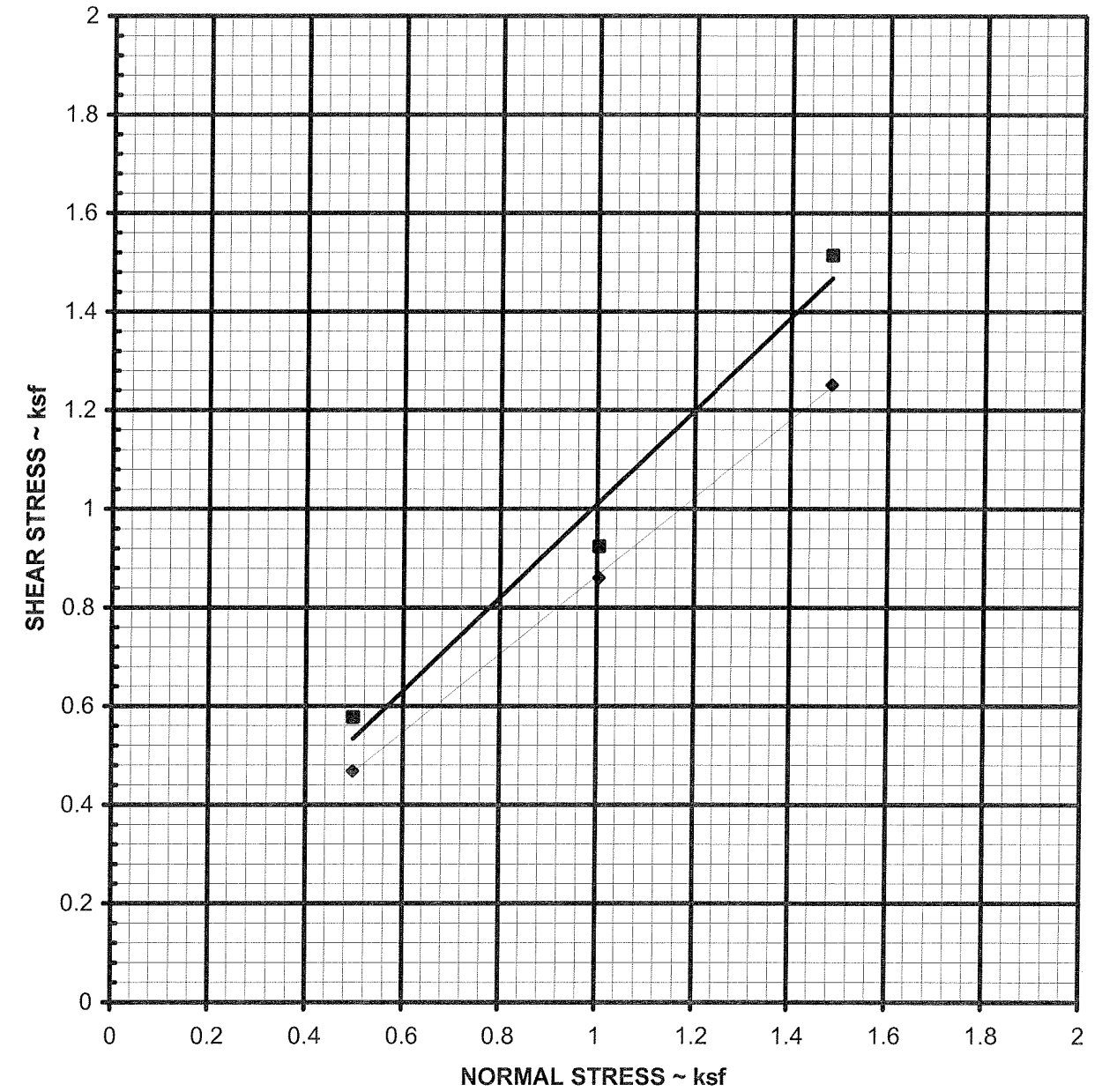
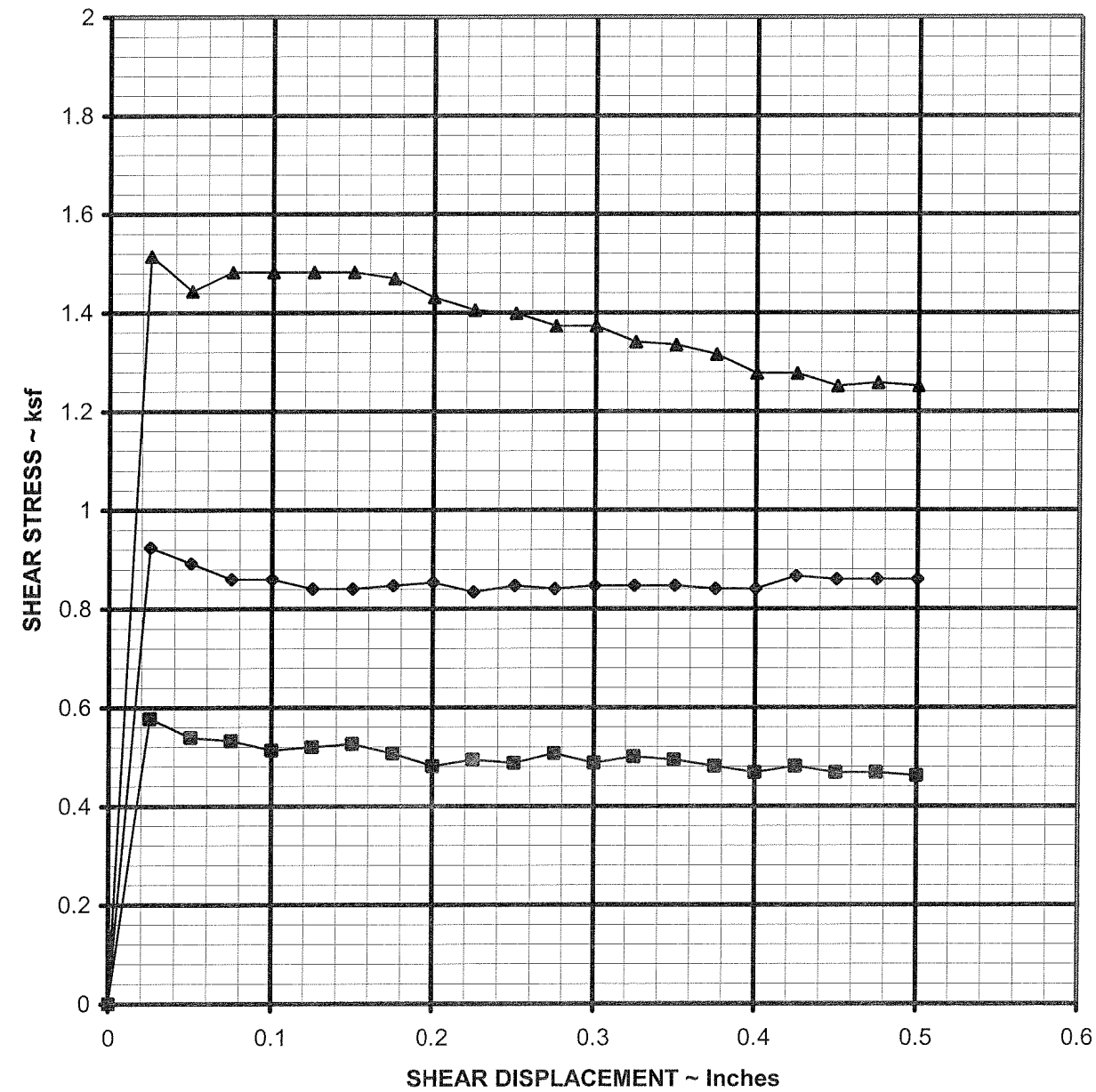


Maximum Dry Density (pcf) 136.4
Optimum Moisture Content (%) 7.1
Percent Oversized 13.2%

Corrected Dry Density (pcf) 138.8
Corrected Moisture Content (%) 6.4

Comments


R. L. Bragg



DIRECT SHEAR - A.S.T.M. D3080

PLOT	RUN NO.	SOURCE	SWC SAMPLE NO.	CONFINING PRESSURE (ksf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)
■	1		3484B	0.5	13.3	101.4
◆	2		.3484B	1.0	13.3	101.4
▲	3		3484B	1.5	13.3	101.4

RESIDUAL ANGLE = 39.0 Degrees
 COHESIVE INTERCEPT = 0.07 KSF

	
REED & REED	
STETSON WIND PROJECT DANFORTH, MAINE	
Job No.	07-0215
Date:	9/6/2007
Sheet	16



LAB NO. 3482A
TP-8, 1351+00
ASTM D-1883

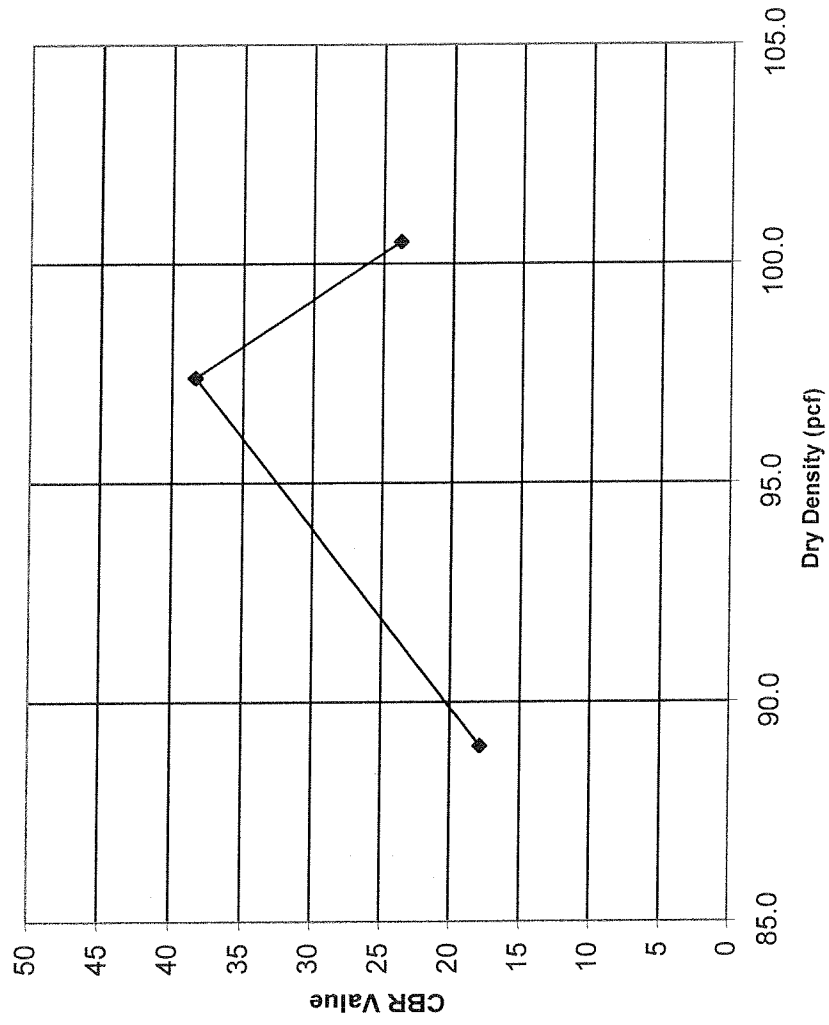
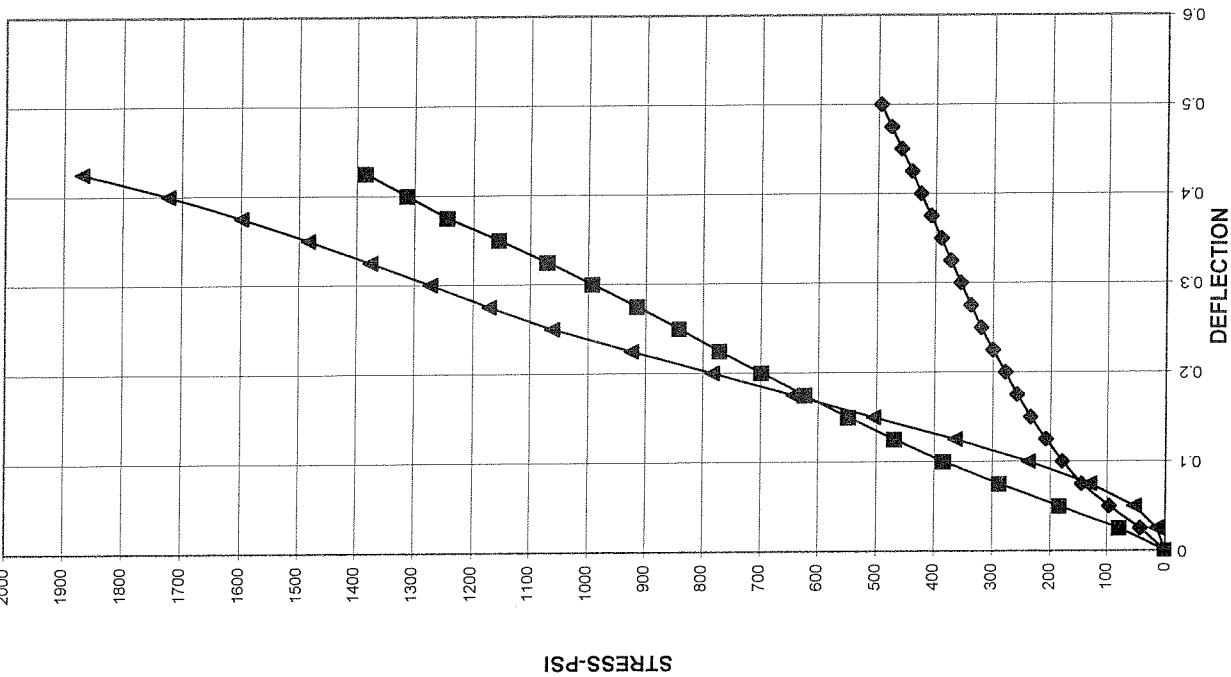
REED & REED

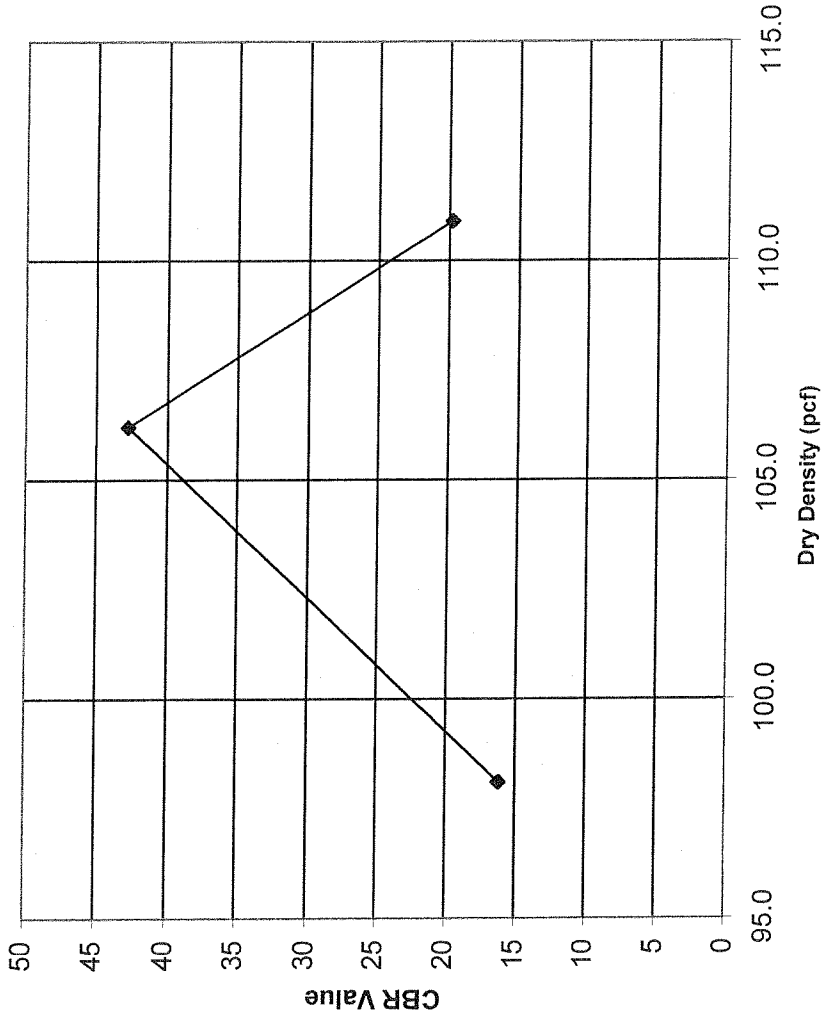
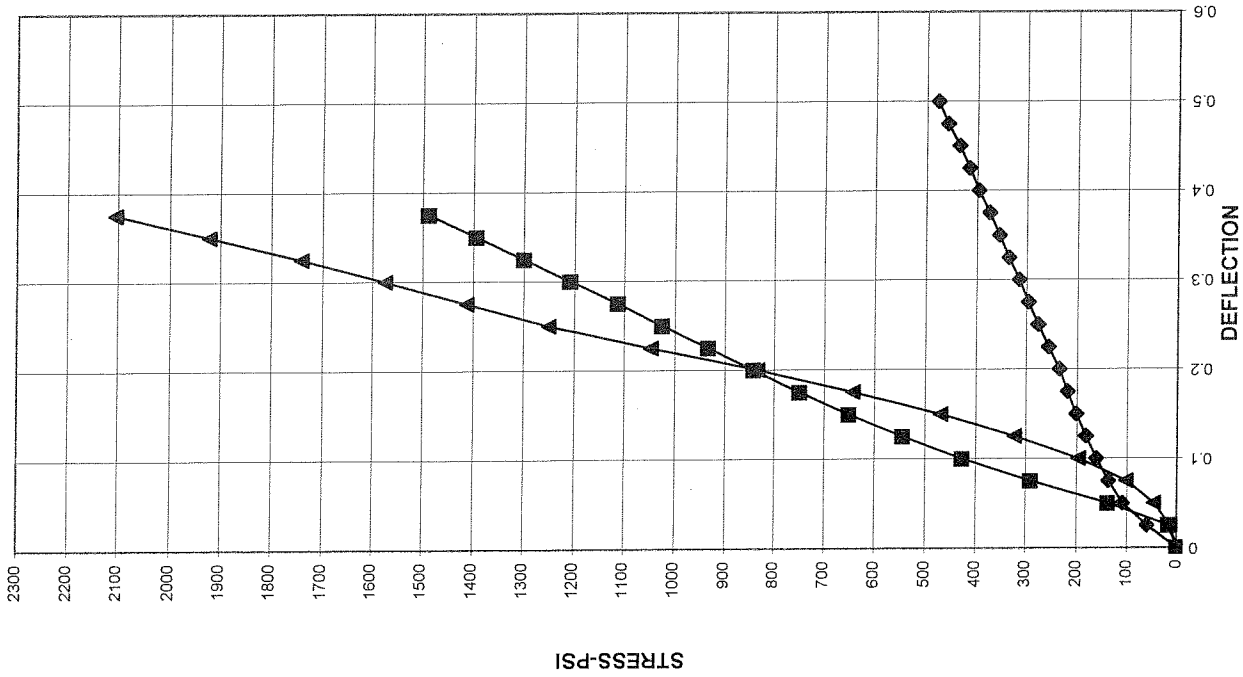
CBR TEST

STETSON WIND PROJECT
 DANFORTH, MAINE

Job No. 07-0215 Scale As Shown
 Date: 9/7/2007 Sheet 17

MOISTURE = 17.3%





LAB NO. 3483A
 TP-6, S-1
 ASTM D-1883

MOISTURE = 13.8%



REED & REED

CBR TEST

STETSON WIND PROJECT
 DANFORTH, MAINE

LAB NO. 3484A
 TP-1, 1450+50
 ASTM D-1883

MOISTURE = 13.3%

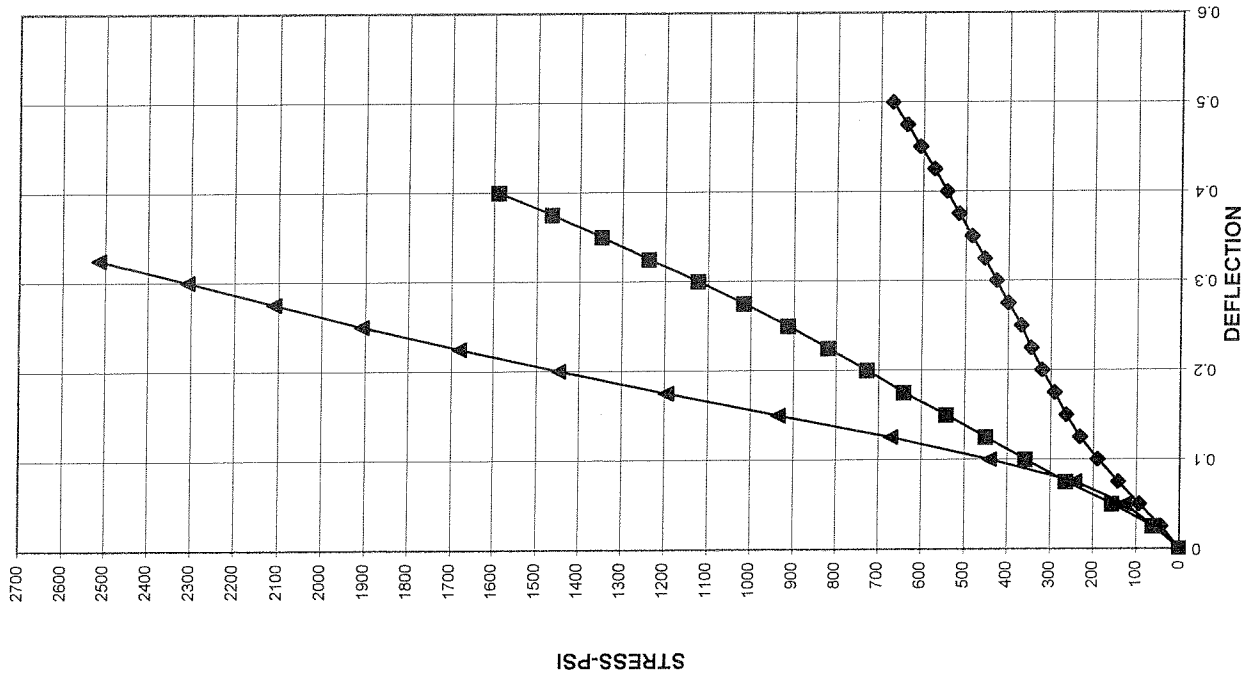
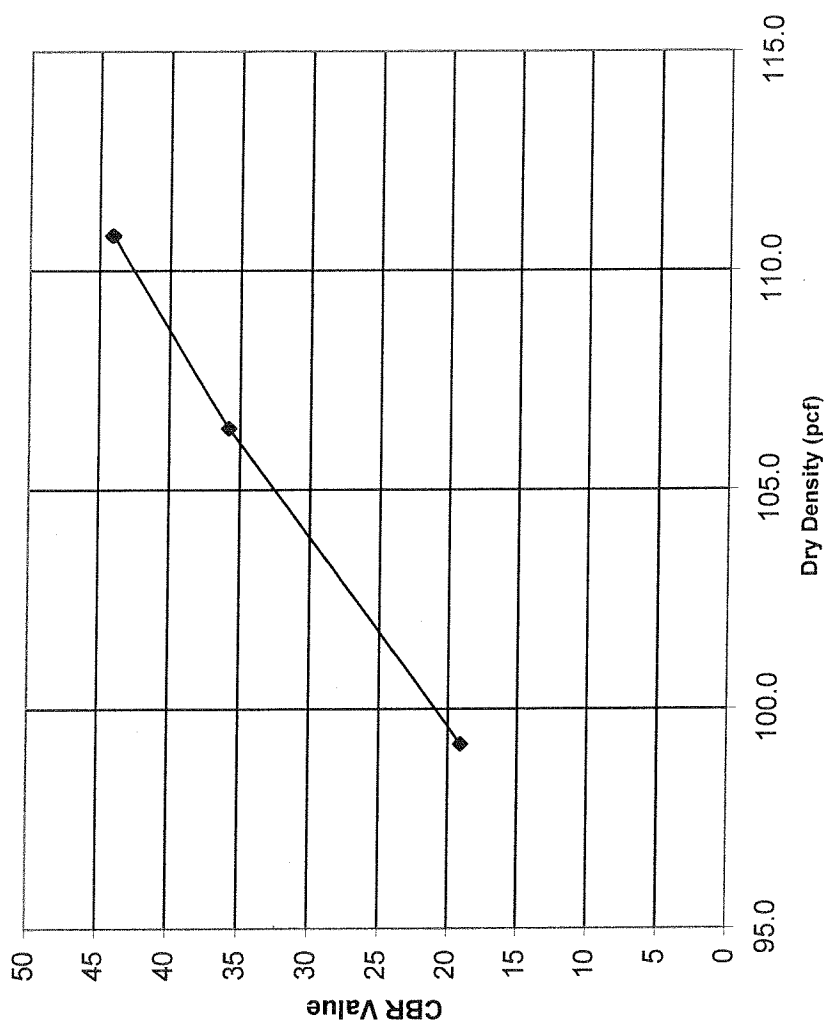


REED & REED

CBR TEST

STETSON WIND PROJECT
 DANFORTH, MAINE

Job No. 07-0215 Scale As Shown
 Date: 9/7/2007 Sheet 19



LAB NO. 3485A
TP-10, 1436+00
ASTM D-1883

MOISTURE = 7.1%

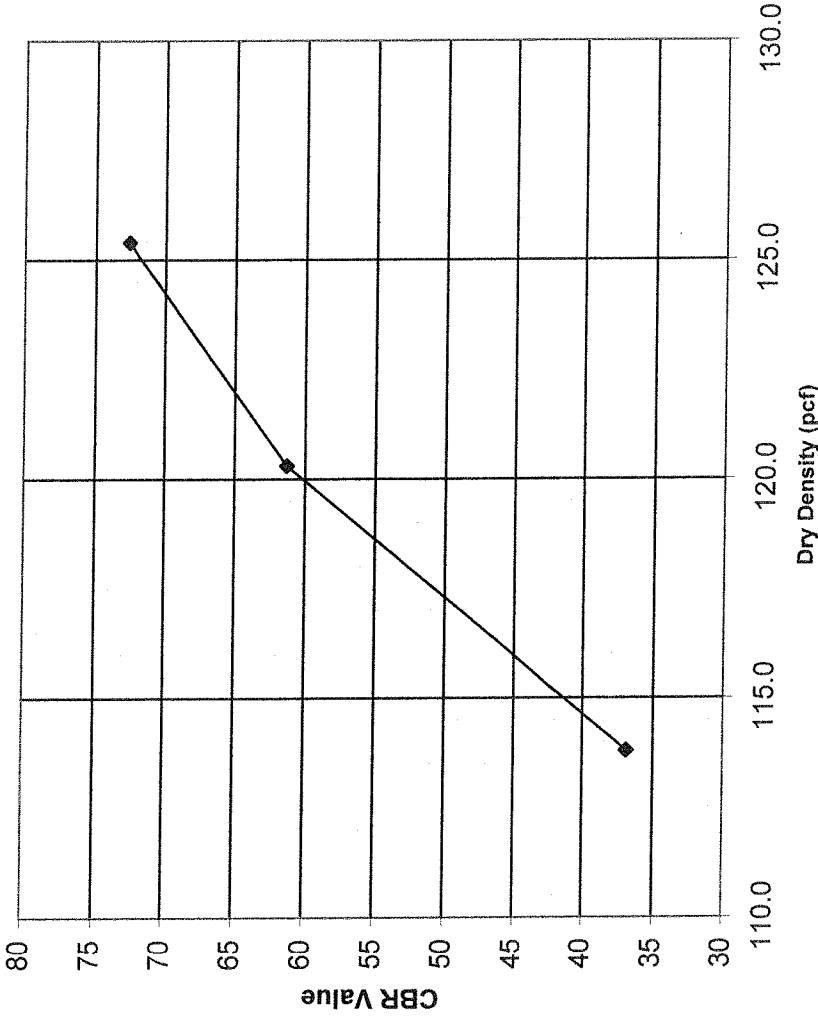
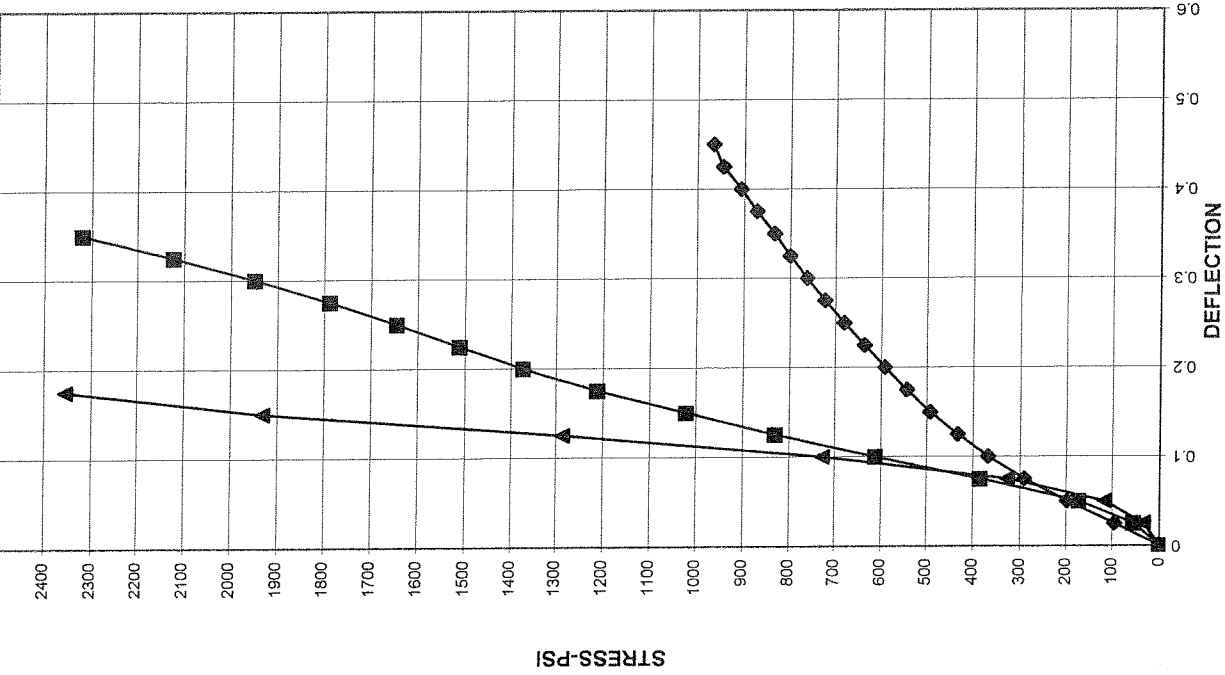


REED & REED

CBR TEST

STETSON WIND PROJECT
 DANFORTH, MAINE

Job No. 07-0215 Scale As Shown
 Date: 9/7/2007 Sheet 20



APPENDIX A

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T1

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO

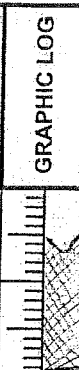


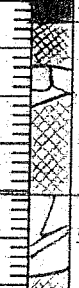
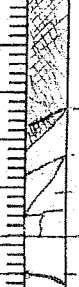


DATE: 8-8-07

SHEET NO.: 1 of 2

CHECKED BY: ONG

DATE: 8-8-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
2.1'	1R	2.3'	1.9'	$\frac{0.6}{2.3} = 26.1\%$	POOR		GRAY-BROWN VOLCANIC ROCKS - MODERATELY HARD - HIGHLY FRACTURED ZONE VERY WEATHERED BECOMING...
4.4'	2R	2.7'	2.3'	$\frac{0.65+0.4}{2.7} = 38.9\%$	POOR		- HIGHLY FRACTURED ZONE - 70° - 30° - RUSTY STAINS ON FRACTURE SURFACES
7.1'	3R	1.3'	1.1'	$\frac{0.3}{1.3} = 23.1\%$	VERY POOR		- 80° VERTICAL FRACTURES - HIGHLY FRACTURED ZONE - ZONE OF NO RECOVERY
8.4'	4R	1.9'	1.7'	0%	VERY POOR		- 65° - 30° - HIGHLY FRACTURED ZONE - ZONE OF NO RECOVERY - HIGHLY FRACTURED ZONE
10.3'	5R	1.8'	1.8'	0%	VERY POOR		- HIGHLY FRACTURED ZONE - HIGHLY FRACTURED ZONE
12.1'	6R	3.5'	3.5'	$\frac{0.425}{3.5} = 12.1\%$	VERY POOR		- 50°-60° - 75° - 40° - VERTICAL FRACTURES
15.6'	7R	0.4'	0.4'	$\frac{0.4}{0.4} = 100\%$	EXCEL.		
16.0'	8R						

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-77

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJD

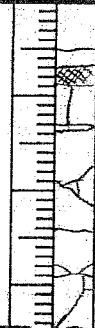
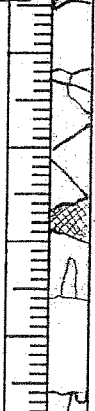
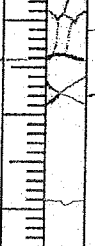
DATE: 8-8-07

SHEET NO.: 2 of 2

CHECKED BY: CWB

DATE: 8-8-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0 - 20.6	8R	4.6'	4.4'	$\frac{0.915 + 0.7455 + 0.4 + 2.75}{4.6} = 59.8\%$	FAIR	 <p>- HIGHLY FRACTURED - 60° - 70°</p>	- GRAY-BROWN VOLCANIC ROCKS - MODERATELY HARD - MODERATELY WEATHERED WITH SOME VERY WEATHERED ZONES
20.6 - 25.6	9R	5.0'	5.0'	$\frac{0.4 + 1.0 + 1.4}{5.0} = 28\%$	POOR	 <p>- 45° - 70° - HIGHLY FRACTURED</p>	- RUSTY STAINS ON FRACTURE SURFACES
25.6 - 27.6	10R	2.0	2.0	$\frac{1.015 + 1.5}{2.0} = 75\%$	GOOD	 <p>- SURFACE FRACTURES - 40°, 70°</p>	
27.6 -							BOTTOM OF EXPLORATION

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T2

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO

DATE: 8/13/07

SHEET NO.: 1 of 2

CHECKED BY: GWB

DATE: 8-13-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
2.6'	1R	4.3'	4.3'	2.5' + .6'	FAIR		GRAY-BROWN VOLCANIC ROCKS - HARD - MODERATELY WEATHERED BECOMING ...
				3.1'			
6.9'	2R	1.7'	1.5'	.9'	FAIR		HIGHLY FRACTURED - ZONE OF NO RECOVERY HIGHLY FRACTURED
				1.7'			
8.6'	3R	4.1'	4.1'	3.45'	GOOD		- SLIGHT RUST STAINING ON FRACTURE SURFACES
				4.1'			
12.7'	4R	4.4'	4.4'	4.3'	EXCELL.		... SLIGHTLY WEATHERED
				4.4'			
17.1'	5R	5.2'	5.2'				

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T2

CLIENT: REED & REED, INC.


PROJECT NO.: 07-0215

LOGGED BY: PJD DATE: 8/13/07

SHEET NO.: 2 of 2

CHECKED BY: GWB DATE: 8-13-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
175'	5R cont.	5.2'	5.2'	60%	EXCELLENT		<p>GRAY-BROWN VOLCANIC ROCKS</p> <p>- HARD</p> <p>- SLIGHTLY WEATHERED</p>
223'							6R
276'	<p>BOTTOM OF EXPLORATION</p>						



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

 BORING NO.: T-3

 CLIENT: REED & REED, INC.

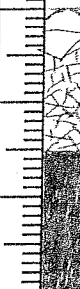

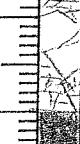

 PROJECT NO.: 07-0215

 LOGGED BY: JEFF W. McELROY DATE: 8-29-07

 SHEET NO.: 1 of 3

CHECKED BY: _____ DATE: _____

 CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
10							
11							GR BOULDER
12	R-1	5.0	3.8	NA	NA		
13							GR GLACIAL TILL
14							
15.0							
16					VERY POOR		
17	R-2	2.1	1.5	0			GRAY RHYOLITE WITH TRACE CALCITE VEINS
18.1							WITH FRESH TO SLIGHT WEATHERING
18.6	R-3	0.5	0.5	80	GOOD		JOINTS ARE VERY CLOSE (0.5"-2.0")
19							
20	R-4	1.8	1.4	0	VERY POOR		
20.4							
21							
22	R-5	3.7	3.4	22	VERY POOR		
23							
24.1							
	R-6	ON NEXT SHEET					

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: T-3

CLIENT: REED & REED, INC.

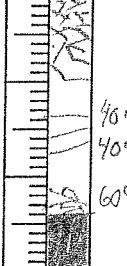
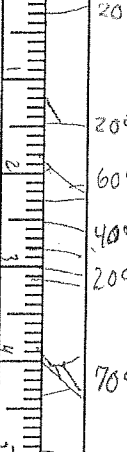
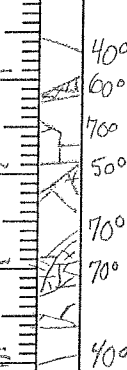
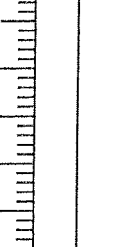
PROJECT NO.: 07-0215

LOGGED BY: JEFF W. McELROY DATE: 8-29-07

SHEET NO.: 2 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
24.1	R-6	2.9	2.3	26	P O O R		GRAY RHYOLITE WITH TRACE CALCITE VEINS WEATHERING IS FRESH TO SLIGHT
25							
26							
27.0	R-7	5.0	5.0	62	F A I R		JOINTS ARE VERY CLOSE (0.15"-2") TO CLOSE (2"-12")
28							
29							
30							
31	R-8	4.0	4.0	35	P O O R		
32.0							
33							
34	R-9	ON	NEXT	SHEET			
35							
36.0							



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: T-3

CLIENT: REED & REED, INC.

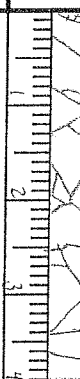
PROJECT NO.: 07-0215

LOGGED BY: JEFF W. McELROY DATE: 8-29-07

SHEET NO.: 3 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
36.0	R-9	4.0	3.9	24	V E R Y P O O R		<p>GRAY RHYOLITE WITH TRACE CALCITE VEINS</p> <p>WEATHERING IS FRESH TO SLIGHT</p> <p>JOINTS ARE VERY CLOSE (0.5"-2.0") TO CLOSE (2"-12")</p>
37							
38							
39							
40.0							<p>END EXPLORATION AT 40.0'</p>





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T5

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
3.0'							2.7' BEDROCK @ 2.7'
7.5'	1R	4.5'	4.5	53	FAIR		GRAY DIHYDROLYTE WITH TRACE CALCITE VEINS. WEATHERING IS FRESH TO SLIGHT
11.8'	2R	4.3'	4.1	60	FAIR		JOINTS ARE VERY CLOSE (0.5" - 2") TO CLOSE (2" - 12")
16.2'	3R	4.9'	4.9	69	FAIR		





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T5

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
21.7'	4R 5.0'	4.9	45		POOR		GRAY RHYOLITE WITH TRACE CALCITE VEINS WEATHERING IS FRESH TO SLIGHT
26.7'	5R 5.0'	4.8	49		POOR		JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (2"-12")
30'	6R 3.3'	3.2	64		FAIR		
							BOTTOM OF EXPLORATION AT 30.0'



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-TC

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJD







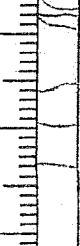

DATE: 8/13/07

SHEET NO.: 1 of 3

CHECKED BY: GWB

DATE: 8-14-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RGD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
3.5' 4.3'	1R	.8'	.5'	0%	VERY POOR		GRAY-BROWN VOLCANIC ROCKS - ZONE OF NO RECOVERY
6.1'	2R	1.8'	1.4'	$\frac{.9'}{1.8'} = 50\%$	FAIR		- MODERATELY HARD - ZONE OF NO RECOVERY
7.7'	3R	1.7'	.9'	0%	VERY POOR		- HIGHLY FRACTURED - MODERATELY WEATHERED - ZONE OF NO RECOVERY
9.0'	4R	1.3'	.8'	$\frac{.4'}{1.3'} = 30.8\%$	POOR		- RUST STAINS EVIDENT ON FRACTURE SURFACES - ZONE OF NO RECOVERY
10.7'	5R	1.7'	.9'	$\frac{.4}{1.7} = 23.5\%$	VERY POOR		- ZONE OF NO RECOVERY
15.0'	6R	4.3'	4.3'	$\frac{2.2'}{4.3'} = 51.2\%$	FAIR		- FRACTURES @ 0°-15°, 25°-45° FROM HORIZONTAL - HIGHLY FRACTURED - 45° - 25° - 25° - HIGHLY FRACTURED
17.8'	7R	2.8'	2.8'	$\frac{2.05}{2.8} = 73.2\%$	FAIR		- 25°
18.5'	8R	.7'	.7'	0	VERY POOR		- HIGHLY FRACTURED ZONE



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T6

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: RJD DATE: 8/13/07

SHEET NO.: 2 of 3

CHECKED BY: GWB DATE: 8-17-07

CORE SIZE: NQ -2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
18.5'	R9	.7'	.7'	0%	VERY POOR	0° to 5°	
19.2'							GRAY-BROWN VOLCANIC ROCKS - MODERATELY HARD
						0° to 5°	
	R10	3.0'	3.0'	$\frac{2.6}{3.0} = 86.6\%$	GOOD	> 10° to 20° 40°	- MODERATELY WEATHERED BELOWING ...
22.2'							
22.6'	R11	.4'	.4'	0%	VERY POOR	HIGHLY FRACTURED	
	R12	2.3'	2.3'	$\frac{.7+.45+.9}{2.3} = 89.1\%$	GOOD	35° 0° to 5° 35°	- RUST STAINS ON SOME FRACTURE SURFACES
24.9'							
	R13	2.3'	2.3'	$\frac{2.2}{2.3} = 95.7\%$	EXCELLENT	0° to 5° 45°	
27.2'							
	R14	2.3'	2.3'	$\frac{1.3}{2.3} = 56.5\%$	FAIR	> 35°	- FRACTURES @ 0°-5°, 10°-20°, 35°-50°, AND 80° FROM HORIZONTAL
29.5'							
	R15	.8'	.8'	$\frac{.7}{.8} = 87.5\%$	GOOD	HIGHLY FRACTURED 20° 35°	... SLIGHTLY WEATHERED
30.3'							
	R16	5.0'	5.0'		EXCELLENT	80° 35°	SAME ROCK TYPE AS ABOVE
37.5'							



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T6

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO

DATE: 8/14/07

SHEET NO.: 3 of 3

CHECKED BY: GMB

DATE: 8-15-07

CORE SIZE: NQ

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
33.5	R16 cont.	5.0'	5.0'	$\frac{4.9'}{5.0'} = 98\%$	EXCELLENT		(CONTINUED FROM SHEET 2)
35.3						45°	- VERTICAL FRACTURE
	R17	4.9'	4.9'	$\frac{3.7'}{4.9'} = 76\%$	GOOD		GRAY-BROWN VOLCANIC ROCKS - SLIGHTLY WEATHERED - HARD
40.2							BOTTOM OF EXPLORATION

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T7

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJD


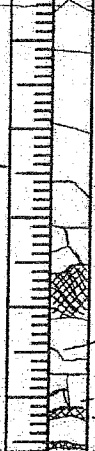


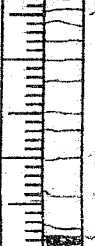
DATE: 8/13/07

SHEET NO.: 1 of 2

CHECKED BY: GWB

DATE: 8-14-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
2.6	1R	4.6'	4.6'	.35 + .7 + .25 + 1.4 = 3.1 4.6 =	FAIR		HIGHLY FRACTURED GRAY-BROWN VOLCANIC ROCKS HORIZONTAL FRACTURES - MODERATELY HARD - MODERATELY WEATHERED
7.2				67.4%			
12.2	2R	5.0'	5.0'	2.9' 5.0' =	FAIR		- RUST STAINS ON FRACTURE SURFACES - HIGHLY FRACTURED - FRACTURES @ 0°-10°, 20°-30°, 40°-70°, AND 90° FROM HORIZONTAL
				58%			
17.2	3R	1.7'	1.6'	.7' 1.7' =	POOR		- VERTICAL FRACTURES - HIGHLY FRACTURED - 0 TO 5° - 65° TO 75°
18.9	4R	1.0'	1.0'	.6' 1.0' =	FAIR		
19.9	5R	2.8'	2.7'	.36 + .6 + .33 = 1.29 =	POOR		- VERTICAL FRACTURE - 30° - 20° - ZONE OF CORE LOSS
22.7				46.1%			

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-77

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJD





DATE: 8/14/07

SHEET NO.: 2 of 2

CHECKED BY: GAB

DATE: 8-14-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
1.7 →	6R	4.7'	4.7'	4+3.5' 4.7' 83%	GOOD		- HIGHLY FRACTURED GRAY-BROWN ORGANIC ROCKS - MODERATELY HARD - MODERATELY WEATHERED BECOMING ... - RUST STAINS ON FRACTURE SURFACES
22.9	7R	3.6'	3.4'	2.8' 3.6' 77.7%	GOOD		... SLIGHTLY WEATHERED HORIZONTAL FRACTURES
26.0	8R	1.8'	1.8'	1.7' 1.8' 94%	EXCELLEN		- FRACTURES @ 0°-5°, 30°-70°, 60°-65°, and 75°-80° FROM HORIZONTAL
27.8	9R	2.2'	2.0'	1.5' 2.2' 68%	FAIR		- HIGHLY FRACTURED - ZONE OF CORE LOSS
30.0							BOTTOM OF EXPLORATION

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T8

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO

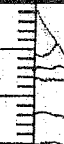


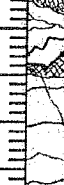


DATE: 8/10/07

SHEET NO.: 1 of 3

CHECKED BY: GWB

DATE: 8-13-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
2.5'	1R	1.7'	1.5'	0%	VERY POOR		DARK GRAY PELITE
4.2'							- HIGHLY FRACTURED
7.3'	2R	3.1'	2.0'	0%	VERY POOR		- MODERATELY HARD
9.1'							- HIGHLY FRACTURED
11.3'	3R	1.8'	1.5'	0%	VERY POOR		- HIGHLY FRACTURED - RUSTY STAINS ON FRACTURE SURFACES
13.1'							- ZONE OF NO RECOVERY
15.5'	4R	2.2'	2.2'	$\frac{.4}{2.2} = 18.2\%$	VERY POOR		- PYRITE CRYSTALS EVIDENT
17.5'							- LAMINATED BEDDING EVIDENT
19.5'	5R	4.2'	4.2'	$\frac{.6 + 1.4}{4.2} = 23.8\%$	VERY POOR		
21.5'							- HIGHLY FRACTURED
23.5'	6R	2.0'	2.0'	$\frac{.4 + 1.5}{2.0} = 45\%$	POOR		
25.5'							



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T8

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJD


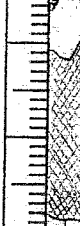




DATE: 8/10/07

SHEET NO.: 2 of 3

CHECKED BY: CWB

DATE: 8-13-07

CORE SIZE: NQ - 2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
20.0	7R	2.5'	2.5'	$\frac{.5}{2.5} = 20\%$	VERY POOR	 <p>80° 30° 65°</p>	<p>DARK GRAY PELITE</p> <p>- MODERATELY HARD</p> <p>- MODERATELY WEATHERED BECOMING ...</p>
22.5	8R	2.5'	1.7'	0%	VERY POOR	 <p>80°</p>	<p>- HIGHLY FRACTURED</p> <p>- RUSTY STAINS IN FRACTURE SURFACES</p>
24.7	9R	2.2'	2.2'	$\frac{.7}{2.7} = 31.8\%$	POOR	 <p>50°</p>	<p>HORIZONTAL FRACTURES</p> <p>- HIGHLY FRACTURED</p> <p>- LAMINATED BEDDING EVIDENT</p> <p>- HIGHLY FRACTURED</p>
27.5	10R	2.6'	2.3'	$\frac{.6}{2.3} = 26.1\%$	POOR		<p>... SLIGHTLY WEATHERED</p> <p>- HIGHLY FRACTURED</p>
29.2	11R	1.7'	1.7'	$\frac{.7}{1.7} = 41.2\%$	POOR	 <p>50° 50° 80° 60°</p>	<p>- HIGHLY FRACTURED</p>
32.5	12R	3.3'	2.0'	$\frac{.514}{1.4} = 64.3\%$	FAIR	 <p>60°</p>	<p>- HIGHLY FRACTURED</p>



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T8

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: RJD

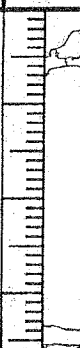

DATE: 8/10/07

SHEET NO.: 3 of 3

CHECKED BY: GWB

DATE: 8-14-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0-4.9	13R	5.0'	4.9'	$\frac{2.65 + 1.5}{4.9} = 84.7\%$	GOOD		DARK GRAY PELITE - MODERATELY HARD - SLIGHTLY WEATHERED - RUST STAINS ON FRACTURE SURFACE
4.9-7.4							ZONE OF NO RECOVERY
7.4-9.9	14R	2.5'	2.4'	$\frac{1.7}{2.4} = 70.8\%$	GOOD		SAME AS ABOVE
9.9-10.0							ZONE OF NO RECOVERY
10.0-10.0							BOTTOM OF EXPLORATION





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T9

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	ACID (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
59'							49' BEDROCK AT 49'
6-67'	1R	1.7'	0.7	0	VERY POOR		BLACK SULFIDIC MUDSTONE WITH SOME CALCITE VEINS
7-10'	2R	3.9'	3.0	0	VERY POOR		WEATHERING IS MODERATE
10.6-10.9'	3R	0.3'	0.5	0	VERY POOR		JOINTS ARE VERY CLOSE (0.5"-2")
11-11.2'							11.2'
12-14.7'	4R	3.8'	3.5	11	VERY POOR		SAME WITH VERY CLOSE TO CLOSE (2"-12") JOINTS
15-16.4'	5R	4.4'	4.5	93	GOOD		





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-79

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
20	6R	4.8'	4.5	55	F A I R		BLACK SULFIDIC MUDSTONE WITH SOME CALCITE VEINS, WEATHERING IS MODERATE. JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (2"-12").
21							
22							
23							
23.7							
23.7	7R	3.0'	1.9	0	V E R Y P O O R		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS WEATHERING IS MODERATE JOINTS ARE VERY CLOSE
24							
25							
26							
26.7	8R	0.9'	0.8	0	V E R Y P O O R		
27							
27.5	9R	2.2'	1.9	32	P O O R		
28							
29							
30.0							BOTTOM OF EXPLORATION AT 30.0'





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T10

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
35							
35 - 40	1R	2.5'	1.8	0	VERY POOR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS. WEATHERING IS FRESH TO SLIGHT & JOINTS ARE VERY CLOSE
40 - 50	2R	5.0'	4.1	46	POOR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS. WEATHERING IS FRESH TO SLIGHT.
50 - 60	3R	4.0'	4.4	70	FAIR		JOINTS ARE VERY CLOSE (8"-21") TO CLOSE (2"-12").
60 - 65	4R	5.0'	4.7	62	FAIR		





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T10

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
20.0	4R	5.0'	4.7	62	FAIR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS, WEATHERING IS FRESH TO SLIGHT. JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (2"-12")
23.3	5R	3.3'	3.3	24	VERY POOR		
26.6	6R	2.8'	2.8	29	POOR		
30.0	7R	3.9'	3.7	26	POOR		
							BOTTOM OF EXPLORATION AT 30.0'



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T11

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO

DATE: 8/15/07

SHEET NO.: 1 of 3

CHECKED BY: GWB

DATE: 8/17/07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
4.5	1R	2.0'	2.0'	$\frac{.35}{2.0} = 17.5\%$	VERY POOR		HIGHLY FRACTURED ZONE GRAY-BROWN VOLCANIC ROCKS
6.5							HIGHLY FRACTURED ZONE - MODERATELY HARD
7.8	2R	3.3'	3.3'	$\frac{.4}{3.3} = 12.1\%$	VERY POOR		HIGHLY FRACTURED ZONE - HIGHLY WEATHERED BELONGING ... - HIGHLY FRACTURED
9.8							10°-20° WEATHERED - RUST STAINS ON FRACTURE SURFACES
13.8	3R	4.0'	4.0'	$\frac{.73}{4.0} = 18.3\%$	VERY POOR		HIGHLY FRACTURED ZONE / WEATHERED
15.8							70° 65° NEAR VERTICAL FRACTURE HIGHLY FRACTURED
16.0	4R	2.2'	2.2'	0%	VERY POOR		HIGHLY FRACTURED
19.6							55° 35° MODERATELY WEATHERED 45° HIGHLY FRACTURED ZONE
19.6	5R	4.3'	4.3'	$\frac{16.55}{4.3} = 38.4\%$	POOR		HIGHLY FRACTURED ZONE (CONT. OF SHEET 2)

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T11

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: BSD DATE: 8/15/07

SHEET NO.: 2 of 3

CHECKED BY: GWD DATE: 8-17-07

CORE SIZE: NQ - Q

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
17.5	5R	4.3'	4.3'	30.4%	POOR	30°	GRAY - BROWN ORGANIC ROCKS
20.3	6R	1.3'	1.3'	0%	VERY POOR		HIGHLY FRACTURED ZONE
21.6	7R	1.5'	1.5'	0%	VERY POOR		HIGHLY FRACTURED ZONE
23.1						75°	- MODERATELY HARD
						45°	HIGHLY FRACTURED ZONE
	8R	3.7'	3.7'	$\frac{.81}{3.7} = 21.9\%$	VERY POOR	80°	- MODERATELY WEATHERED
26.8							- NEAR VERTICAL FAULTURES
						55°	
						40°	
						45°	- HIGHLY FRACTURED
	9R	4.2'	4.2'	$\frac{.41}{4.2} = 9.8\%$	VERY POOR	80°	
						75°	- HIGHLY FRACTURED ZONE
31.0							
						35°	
	10R	3.9'	3.9'	0%	VERY POOR	65°	- RUST STAINS ON FRACTURE SURFACES
						50°	
						75°	
						30° - 80°	- HIGHLY FRACTURED

(CONTINUED ON PAGE 3)

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T11

CLIENT: REED & REED, INC.





























PROJECT NO.: 07-0215

LOGGED BY: PJD DATE: 8/16/07

SHEET NO.: 3 of 3

CHECKED BY: GWB DATE: 8-17-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
34.9'	COAT. FOR 10R	3.9'	3.9'	0%	VERY POOR		35° ROCK TYPE SAME AS SHEET 2
35.7'	11R	.3'	.3'	0%	VERY POOR		
							65° 60° 50° - MODERATELY HARD - MODERATELY WEATHERED
	2R	3.8'	3.8'	$\frac{1.1135}{3.8} = 1.45\%$	POOR		- HIGHLY FRACTURED
39.0'				38.26			
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							

BOTTOM OF EXPLORATION



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-712

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: RJD


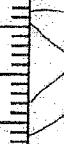


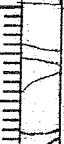
DATE: 8/16/07

SHEET NO.: 1 of 2

CHECKED BY: GWR

DATE: 8-17-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
4.2'	1R	1.6'	1.6'	0%	VERY POOR		HIGHLY FRACTURED ZONE FRACTURES @ 45°-50°, 60°-70° FROM HORIZONTAL GRAY-BROWN VOLCANIC ROCKS
5.8'	2R	2.4'	2.4'	$\frac{.4}{2.2} = 18.2\%$	VERY POOR		55° - MODERATELY HARD 60° - HIGHLY WEATHERED, BECOMING ... 60°
8.2'	3R	3.0'	3.0'	$\frac{.45}{3.0} = 15\%$	VERY POOR		HIGHLY FRACTURED - RUST STAINS ON FRACTURE SURFACES
11.2'	4R	4.5'	4.5'	$\frac{1.71}{4.5} = 38.0\%$	POOR		55°-65° 20° 45° 45° 45° 50°-60° * * * MODERATELY WEATHERED 60° 45° 50°-60°
15.7'	5R	3.9'	3.9'	$\frac{1.82}{3.9} = 46.6\%$	POOR		30° 45° - FRACTURES @ 20°-30°, 45°-75°, AND 80°-85° FROM HORIZONTAL 40°-65° 75° 60°-75°

(CONTINUED ON SHEET 2)



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T12

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO



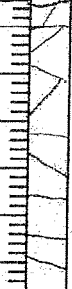
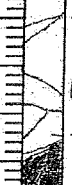
DATE: 8/16/07

SHEET NO.: 2 of 2

CHECKED BY: GWB

DATE: 8-17-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
19.6	CONT 572	3.9'	3.9'	46.6%	POOR		HIGHLY FRACTURED ZONE.
24.5	6R	4.8'	4.8'	$\frac{1.75'}{4.8} = 36.5\%$	POOR		GRAY-BROWN VOLCANIC ROCKS - MODERATELY WEATHERED - MODERATELY HARD
27.9	7R	3.5'	3.5'	$\frac{1.45 + .76}{3.5} = 47.7\%$	POOR		FRACTURES @ 55°, 60°, 75° FROM HORIZONTAL - RUST STAIN ON FRACTURE SURFACES
30.5	8R	2.1'	1.7'	$\frac{.9}{2.1} = 42.9\%$	POOR		FRACTURES @ 0°-10°, 35°-50°, AND 60°-80° FROM HORIZONTAL ZONE OF CORE LOSS
							BOTTOM OF EXPLORATION



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T13

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0 - 2.9	1R	2.9	2.7	0	VERY POOR	[Scale]	<p>BLACK SULFATIC MUDSTONE WITH TRACE CALCITE VEINS</p> <p>WEATHERING IS FRESH TO SLIGHT.</p> <p>JOINTS ARE VERY CLOSE (0.5" - 2")</p>
2.9 - 7.3	2R	2.4	2.1	0	VERY POOR	[Scale]	
7.3 - 11.7	3R	4.4	4.4	20	VERY POOR	[Scale]	
11.7 - 13.0	11.3'						
13.0 - 14.8	4R	1.8	1.6	78	GOOD	[Scale]	<p>BLACK SULFATIC MUDSTONE WITH TRACE CALCITE VEINS.</p> <p>WEATHERING IS FRESH TO SLIGHT.</p> <p>JOINTS ARE VERY CLOSE TO CLOSE (2" - 12")</p>
14.8 - 19.2	5R	4.4	4.1	55	FAIR	[Scale]	





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T13

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
5R	4.4'	4.1	55	FAIR		<p>BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS</p> <p>WEATHERING IS FRESH TO SLIGHT</p> <p>JOINTS ARE VERY CLOSE (0.15"-2") TO CLOSE (2"-12")</p>	
6R	4.0'	4.0	49	POOR			
7R	4.2'	4.2	17	VERY POOR			
8R	3.9'	3.9	51	FAIR			
							BOTTOM OF EXPLORATION AT 300'



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T14

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0 - 45'	1R	45'	4.5	10	VERY POOR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS WEATHERING IS SLIGHT JOINTS ARE VERY CLOSE (0.5"-2")
45 - 102.5'	2R	5.0'	5.0	52	FAIR		12.5'
102.5 - 135'	3R	5.0'	5.0	60	FAIR		SAME WITH VERY CLOSE TO CLOSE (2"-12") JOINTS
135 - 147.5'	4R						





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T14

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0 - 5.0	4R	5.0	5.0	80	GOOD		<p>BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS</p> <p>WEATHERING IS SLIGHT</p> <p>JOINTS ARE VERY CLOSE TO CLOSE</p>
5.0 - 10.0	5R	5.0	5.0	56	FAIR		
10.0 - 14.0	6R	4.0	4.0	51	FAIR		
14.0 - 19.0	7R	5.0	5.0	72	FAIR		





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T14

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 3 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
33	7R	5.0'	5.0	72	F A I R		SAME AS SHEET 2
40	8R	3.5'	3.5	91	E X C E L L E N T		
							BOTTOM OF EXPLORATION 40.0'





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T15

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0 - 2.2'	1R	2.2'	2.2	18	VERY POOR	[Scale]	BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS WEATHERING IS SLIGHT JOINTS ARE VERY CLOSE (0.3"-2") TO CLOSE (2"-12")
2.2 - 6.6'	2R	4.4'	4.4	34	POOR	[Scale]	
6.6 - 10.1'	3R	3.5'	3.5	60	FAIR	[Scale]	
10.1 - 15.1'	4R	5.0'	5.0	60	FAIR	[Scale]	



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-715

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
25.1	5R	5.0'	5.0	70	T A I R		SAME AS SHEET 1.
30.6	6R	4.9'	4.9	82	G O O D		
							BOTTOM OF EXPLORATION AT 30.0'



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-716

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO DATE: 9/5/07

SHEET NO.: 1 of 2

CHECKED BY: GWB DATE: 9-5-07

CORE SIZE: NQ

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
3.0	1R	3.3'	3.3'	1.9 / 3.3' = 27%	POOR		25° GRAY SCLERITIC FELTITE - MODERATELY HARD 50° 60° NEAR VERTICLE FRACTURES - MODERATELY WEATHERED BECOMING... HIGHLY FRACTURED ZONE
6.3							- Qtz VEINS UP TO 3/4 TRACE FRACTURES BETWEEN 60° - 85° - RUST STAINS ON FRACTURE SURFACES ... SLIGHTLY WEATHERED
8.7	2R	2.4'	2.4'	.4 / 2.4' = 17%	VERY POOR		70° 65° HIGHLY FRACTURED ZONE
10.9							60° to 80° SAME AS ABOVE 45°-55° 15°-30° HIGHLY FRACTURED ZONE
14.3	3R	3.4'	3.4'	0%	VERY POOR		60° 75° 65° 70° SAME AS ABOVE
18.0							



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-776

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJD DATE: 9/5/07

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
230	6R	4.0'	4.0'	$\frac{1.1 + 1.65}{4.15} = 4.0$ 86%	GOOD		SAME AS SHEET 1
271.1	7R	4.1'	4.1'	$\frac{4.0}{4.1} = 98\%$	EXCELLENT		DARK GRAY SULFIDIC PELITE - MODERATELY HARD - SLIGHTLY WEATHERED HIGHLY FRACTURED
30.8	8R	2.9'	2.9'	$\frac{2.3}{2.9} = 79\%$	GOOD		- CALCITE VEINS ($\frac{2.1}{7}$) - RUST STAINS ON FRACTURE SURFACES HIGHLY FRACTURED





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE
 CLIENT: REED & REED, INC.

BORING NO.: B-T17
 PROJECT NO.: 07-0215
 SHEET NO.: 1 of 3
 CORE SIZE: NQ

LOGGED BY: RJO DATE: 9/5/07
 CHECKED BY: GWB DATE: 9-5-07

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
7.0	1R	4.3'	4.3'	0	VERY POOR		DARK GRAY SULFIDIC PELITE ⇒ HIGHLY FRACTURED ZONE - SLIGHTLY WEATHERED - MODERATELY HARD - RUST STAIN ON FRACTURE SURFACES - SOME TAIN (L 1/4") CALCITE VENS
8.3	2R	4.2'	4.2'	0	VERY POOR		HIGHLY FRACTURED ZONE FRACTURES BETWEEN 10°-55°
12.5	3R	4.3'	4.3'	$\frac{.5}{4.3} = 11\%$	VERY POOR		SAME AS ABOVE
16.8	4R	5.0'	5.0'	$\frac{.4 + .9 + .7 + .5 + .4 + .95}{5} = 71\%$	FAIR		SAME AS ABOVE

Copy of Rock Core Log (Folio 4/6)



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

CLIENT: REED & REED, INC.

BORING NO.: B-T17

PROJECT NO.: 07-0215

LOGGED BY: RJO

DATE: 9/5/07

SHEET NO.: 2 of 3

CHECKED BY: GWB

DATE: 9-5-07

CORE SIZE: NQ

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
21.8	4R	5.0'	5.0'	3.55 / 5.0 = 71%	FAIR	25° 70° 85° 75°	DARK GRAY PELITE - MODERATELY HARD - FRESH WEATHERING
26.6	5R	4.8'	4.8'	.75 + .85 + 1.1 = 3.8 / 4.8 = 79%	GOOD	25° 80° 75° 60° 60° to 75°	- SOME RUST STAINING ON FRACTURE SURFACES
31.6	6R	5.0'	5.0'	1.34 + .81 + .77 + .55 = 4.15 / 5.0 = 83%	GOOD	45° 45° 35° to 45°	- SOME VERY THIN (1/8" OR LESS) CALCITE VENTS
34.0	7R	4.9'	4.9'	.7r		25° 20° 25° 45° 75° 55°	SAME AS ABOVE

(CONT. ON SHEET 3)





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: BT17

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO DATE: 9/5/07

SHEET NO.: 3 of 3

CHECKED BY: GWB DATE: 9-5-07

CORE SIZE: NQ

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
							(CONT FROM SHEET 2)
72	4.9	4.9	3.6 4.9	73%	FAIR	HIGHLY FRACTURED 50° to 55°	GRAY SULFIDIC PELITE - MODERATELY HARD
82	3.5	3.5	.5+ .6 = 1.6 3.5	46%	POOR	70° to NEAR VERTICAL FRACTURES 70° 85° 65°	- FRESH WEATHERING - THIN CALCITE VEINS
							BOTTOM OF EXPLORATION

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T 18

CLIENT: REED & REED, INC.




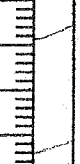
PROJECT NO.: 07-0215

LOGGED BY: PJO DATE: 8/14/07

SHEET NO.: 1 of 2

CHECKED BY: GWB DATE: 8-15-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
4.4	1R	5.0'	5.0'	$\frac{35.33 + 4.4 + 4.35 + 3.5}{5.0} = 1.88$ 37.6%	POOR		GRAY-BROWN VOLCANIC ROCKS - HIGHLY WEATHERED BELONGING TO... HORIZONTAL FRACTURES NEAR VERTICAL FRACTURE HIGHLY FRACTURED ZONE - MODERATELY HARD
9.4	2R	3.4'	3.4'	$\frac{3.3}{3.4} = 9.71$	VERY POOR		- RUST STAIN ON FRACTURE SURFACES HIGHLY FRACTURED ZONE HIGHLY FRACTURED
12.8	3R	2.5'	2.5'	$\frac{1.9}{2.5} = 76.0$	GOOD		- - - MODERATELY WEATHERED
15.3	4R	4.6'	4.6'	$\frac{2.5 + 1.65}{4.6} = 90.2$	EXCELLENT		SAME AS ABOVE

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-719

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO

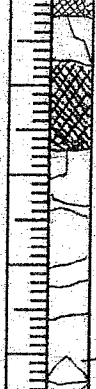
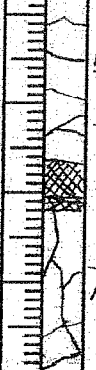


DATE: 8/14/07

SHEET NO.: 1 of 2

CHECKED BY: GWB

DATE: 8-15-07

CORE SIZE: NQ - 2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
2.7'	1R	4.7'	4.7'	$\frac{0.75 + 5.125}{4.7} = 26.6\%$	POOR		- HIGHLY FRACTURED - 20° GRAY-BROWN VOLCANIC ROCKS - HIGHLY FRACTURED ZONE - MODERATELY HARD - MODERATELY WEATHERED REMAINS...
9.4'							- RUST STAINS ON SOME FRACTURE SURFACES - HIGHLY FRACTURED ZONE - NEAR VERTICAL FRACTURES
12.2'	3R	4.3'	4.3'	$\frac{2.0 + 1.7}{4.3} = 96.5\%$	EXCELLENT		... SLIGHTLY WEATHERED - FRACTURES @ 5°-15°, 35°-55° AND 60°-85° FOR HORIZONTAL
16.5'							SAME AS ABOVE (CONT. ON PG 2)

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T19

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO


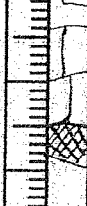
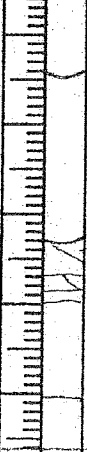
DATE: 8/14/07

SHEET NO.: 2 of 2

CHECKED BY: GWB

DATE: 8-15-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
17.7	CONT. 4R	5.0'	5.0'	100%	EXCELLENT		GRAY-BROWN VOLCANIC ROCKS - MODERATELY HARD - SHALLOW SURFACE FRACTURES - SLIGHTLY WEATHERED
21.5	5R	2.6	2.6	$\frac{1.05}{2.6} = 57.7\%$	FAIR		- NEAR VERTICAL FRACTURES - HIGHLY FRACTURED - 50°
24.1	6R	5.2'	5.2'	$\frac{1.0+1.8}{5.2} = 84.6\%$	GOOD		- RUST STAINS ON SOME FRACTURE SURFACES - FRACTURES @ 0°-5°, 50°-55° AND 85° FROM HORIZONTAL
29.3							BOTTOM OF EXPLORATION

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

 BORING NO.: B-T20

 CLIENT: REED & REED, INC.

 PROJECT NO.: 07-0215

 LOGGED BY: PJB

 DATE: 8/15/07

 SHEET NO.: 1 of 3

 CHECKED BY: GWR

 DATE: 8-15-07

 CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
5.7'	1R	1.7'	1.7'	0%	VERY POOR		- HIGHLY FRACTURED ZONE GRAY-BROWN VOLCANIC ROCKS
7.4'							- HIGHLY FRACTURED ZONE
9.9'	2R	2.5'	2.5'	0%	VERY POOR		- HIGHLY WEATHERED & CRUMBLY ... - HIGHLY FRACTURED ZONE - MODERATELY HARD 40°, 45°, 55° FRACTURES
11.3'	3R	1.4'	1.4'	0%	VERY POOR		- RUST STAIN ON FRACTURE SURFACES - HIGHLY FRACTURED
12.5'	4R	1.2'	1.2'	0%	VERY POOR		50°-70° ... MODERATELY WEATHERED
15.8'	5R	3.3'	3.3'	20.0%	VERY POOR		- 45°-60° - 50°-60° 55° - SEVERAL FRACTURES BETWEEN 50°-75° 50° 50° 75°
16.1'	6R	.3'	.3'	100%	EXCEL.		45°
17.4'	7R	1.3'	1.3'	25.4%	POOR		50° SAME AS ABOVE
20.7'	8R	5.1'	3.1'	60.8%	FAIR		60° 55° 50° 55°-60° 45°-45°

(CONTINUED ON PAGE 2)

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T20

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: DJD

DATE: 8/15/07

SHEET NO.: 2 of 3

CHECKED BY: GWB

DATE: 8-15-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
22.5	8R	5.1'	5.1'	75% 1.01/1.35 68.6%	FAIR	55°	GRAY-BROWN VOLCANIC ROCKS - MODERATELY HARD
27.5	9R	5.0'	5.0'	4.7' 5.0' 94%	EXCELLENT	50°	- SLIGHTLY WEATHERED - RUST STAINS on SOME FRACTURE SURFACES
32.4	10R	4.9'	4.9'	2.95' 1.3' 4.25' 7.7' 86.7%	GOOD	25° 30°-40° 40° 45° 55° 50°-60°	- FRACTURES @ 0°, 25°-40°, AND 45°-60° FROM HORIZONTAL FELDSPAR INTERUSION
36.7	11R	5.1'	5.1'	4.6' 5.1' 90.2%	EXCELLENT	50°	- ROCK TYPE SAME AS ABOVE

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-720

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJD DATE: 8/15/07

SHEET NO.: 3 of 3

CHECKED BY: GMB DATE: 8-15-07

CORE SIZE: NQ -2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
							(CONTINUED FROM SHEET 2)
31.5	cont 11A	5.1'	5.1'	90.2%	EXCEL	55° 65°	
40.5	12A	25'	25'	2.0' 2.5' = 80%	GOOD	55° 60°	GRAY-BROWN VOLCANIC ROCKS - HARD - SLIGHTLY WEATHERED - FRACTURES AT 10°, 55°-60° FROM HORIZONTAL
							BOTTOM OF EXPLORATION





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-TZ1

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
1.7'							<p>GRAY RHYOLITE WITH TRACE CALCITE VEINS AND SOME BLACK SULFATIC ANDSTONE VEINS.</p> <p>WEATHERING IS FRESH TO SLIGHT.</p> <p>JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (2"-12")</p>
2.1'	1R	1.4'	0.7	0	VERY POOR		
3.5'	2R	1.4'	1.5	32	POOR		
6.9'	3R	3.4'	3.4	21	VERY POOR		
10.1'	4R	3.2'	2.5	0	VERY POOR		
14.0'	5R	5.0'	5.0	52	FAIR		SEE SHEET C FOR DESCRIPTION



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-721

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
5.0'	5R						GRAY RHYOLITE WITH TRACE CALCITE VEINS. WEATHERING IS SLIGHT TO FRESH JOINTS ARE CLOSE (24-124)
6R	5.0'	4.8	24	VERY POOR			
7R	5.0'	4.8	70	FAIR			
8R	3.4'	3.6	79	GOOD			
BOTTOM OF EXPLORATION AT 30.0'							○

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T22

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: RJD

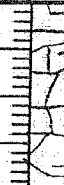
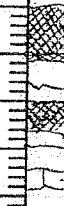


DATE: 8/15/07

SHEET NO.: 1 of 2

CHECKED BY: GWB

DATE: 8-15-07

CORE SIZE: NQ -2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
1.5	1R	2.0'	2.0'	0%	VERY POOR		GRAY-BROWN ORGANIC ROCKS - MODERATELY HARD
3.5	2R	3.3'	3.3'	$\frac{.6 + .6}{1.2} = \frac{1.2}{3.3} = 36.4\%$	POOR		HIGHLY FRACTURED ZONE - MODERATELY WEATHERED - RUST STAINS ON FRACTURE SURFACES
6.8	3R	.9'	.9'	100%	EXCEL		HIGHLY FRACTURED
7.7	4R	3.5'	3.5'	$\frac{2.9 + .55}{3.5} = 84\%$	GOOD		- FRACTURES @ 0°-10°, 25°-40° AND 80°-90° FROM HORIZONTAL



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T22

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
1.5							
3.5	1R	2.0'					
6.8	2R	3.3'					R1 - R4 IN GRAY OFFICE
7.7	3R	0.9'					
11.2	4R	3.5'					
15.8	5R	4.6'	5.1	76	D		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS WEATHERING IS FRESH TO SLIGHT. JOINTS ARE VERY CLOSE (0.5"-2.0") TO MODERATELY CLOSE (12"-36")



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T22

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
16	6R	2.7'	2.7	63	F A I R		SEE SHEET 1 FOR DESCRIPTION
17							
18	7R	3.3'	2.8	36	P O O R		
18.5							
19							
20	8R	4.4'	4.2	45	P O O R		
21							
21.8							
22							
23							
24	9R	4.1'	5.1	108	E X C E L L E N T		
25							
26.2							
27							
28							
29							
30.3							
31							





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T22

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 3 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
31	10R	3.0'	3.0	45	P O O R		SEE SHEET 1 FOR DESCRIPTION
32							
33.5	11R	1.2'	1.2	50	FAIR		
34							
34.5	12R	5.1'	5.3	37	P O O R		
35							
36							
37							
38	13R	0.4'	0	0	VERY POOR		
39							
39.6							BOTTOM OF EXPLORATION AT 40.0'
40.0							





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T23

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RGD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
1	1R	3.2'	3.2'	17	VERY POOR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS WEATHERING IS SLIGHT, JOINTS ARE VERY CLOSE (0.5"-2")
2							
32'							
4	2R	1.3'	1.3'	0	VERY POOR		
45'							
5	3R	1.4'	1.4'	0	VERY POOR		
54'							
6	4R	2.1'	2.1'	0	VERY POOR		
60'							
7	5R	2.7'	2.7'	0	VERY POOR		
72'							
8	6R	2.6'	2.6'	0	VERY POOR		
83'							
9	7R	0.5'	0.5'	0	VERY POOR		
88'							
10	8R						14.0'

SEE SHEET 2 FOR DESCRIPTION



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T23

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
15							
16					P		
17	8R	5.2'	5.2'	27	O		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS
18					O		
19					R		
20							WEATHERING IS FRESH TO SLIGHT
21					G		
22	9R	4.8'	4.8'	77	O		JOINTS ARE VERY CLOSE (0.5"-2") TO MODERATELY CLOSE (12"-36")
23					O		
23.5'					O		
24							
25					G		
26					O		
26.5'	10R	4.7'	4.7'	83	O		
27					O		
28					O		
28.5'							
29							
29.5'	11R	1.5'	1.5'	43	P O R		
30							



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T24

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0.0' - 2.9'							WEATHERED BEDROCK
2.9' - 7.8'	1R	4.9'	4.9	61	FAIR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS. WEATHERING IS SLIGHT JOINTS ARE VERY CLOSE (0.15" - 2") TO CLOSE (24" - 12")
7.8' - 11.2'	2R	3.4'	3.2	62	FAIR		
11.2' - 15.7'	3R	4.5'	3.5	29	POOR		
15.7' - 17.0'	4R						

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T24

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
19.3	4R	3.6'	4.4	92	EXCELLENT		
24.3	5R	5.0'	5.0	62	FAIR		
27.9	6R	3.6'	3.8	92	EXCELLENT		
30'	7R	2.1'	2.2	76	GOOD		
							BOTTOM OF EXPLORATION AT 30.0'



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T25

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
23'	1R	3.1'	3.1'	0	VERY POOR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS. WEATHERING IS FRESH TO SLIGHT JOINTS ARE VERY CLOSE (0.5"-2")
5.4'	2R	1.3'	1.3'	0	VERY POOR		
5.7'	3R	1.9'	1.9'	0	VERY POOR		
8.6'	4R	1.9'	1.9'	0	VERY POOR		
10.5'	5R	1.6'	1.6'	47	VERY POOR		
12.1'	6R	0.9'	0.9'	0	VERY POOR		
13.0'	7R	1.3'	1.3'	0	VERY POOR		
14.3'	8R	0.5'	0.5'	0	VERY POOR		
14.8'	9R	1.5'	1.5'	0	VERY POOR		
16.3'	10R						

SEE SHEET 2 FOR DESCRIPTION



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T25

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
19'	10R	2.7'	2.7	41	POOR		BLACK SULFATIC MUDSTONE WITH TRACE CALCITE VEINS, WEATHERING IS FRESH TO SLIGHT JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (2"-12")
21'	11R	2.1'	1.7	0	VERY POOR		
22.2'	12R	1.1'	1.1	45	POOR		
24.1'	13R	1.9'	2.2	18	VERY POOR		
26.9'	14R	2.8'	2.3	54	FAIR		
28.2'	15R	1.3'	1.6	38	POOR		
29.2'	16R	2.8'	2.8	32	POOR		
31.9'	17R	0.8'	0.8	0	VERY POOR		SAME AS ABOVE EXCEPT JOINTS ARE VERY CLOSE (0.5"-2")





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T25

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 3 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
33.3	18R	15'	15	0	POOR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS, FRESH TO SLIGHT WEATHERING AND VERY CLOSE (0.5"-2") JOINTS BOTTOM OF EXPLORATION AT 33.3'





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T26

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
8.8							
9	1R	3.2'	3.0	43	POOR		BLACK SCLATIC MUDSTONE WITH SOME CALCITE VEINS.
12'							WEATHERING IS FRESH TO SLIGHT
13							
14	2R	4.8'	4.8	48	POOR		JOINTS ARE VERY CLOSE (0.5"-2")
16							
16.8							
17							
18							
19	3R	5.0'	5.0	64	FAIR		
20.4'							
21							SEE DESCRIPTION ON SHEET 2
21.8'							
22	4R						





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-726

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK-DESCRIPTION AND IDENTIFICATION
24 26 26.5'	4R	5.0'	5.0	72	F A I R		BLACK SULFATIC MUDSTONE WITH SOME CALCITE VEINS WEATHERING IS FRESH TO SLIGHT
27 28 29 31 31.5'	5R	5.0'	4.7	76	G O O		Joints are very close (0.5"-2") to moderately close (12"-36")
32 33 34 36 36.5'	6R	5.0'	5.0	92	E X C E L L E N T		
37	7R						





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T26

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 3 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
39	7R	3.2	3.3	94	EXCELLENT		SAME AS SHEET 2
40							BOTTOM OF EXPLORATION AT 40.0'





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T27

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
2.4'							WEATHERED BEDROCK
3.5'	1R	1.1'	1.1	0	VERY POOR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS.
4.6'	2R	1.1'	1.1	0	VERY POOR		
5.7'	3R	1.3'	1.0	0	VERY POOR		
7.0'	4R	1.3'	1.3	0	VERY POOR		
9.8'	5R	2.8'	2.8	0	VERY POOR		
12.6'	6R	3.0'	3.0	0	VERY POOR		WEATHERING IS FRESH TO SLIGHT.
15.1'	7R	2.1'	2.1	0	VERY POOR		JOINTS ARE VERY CLOSE (0.5R 2R)
17.2'	8R	4.0'	4.0	19	VERY POOR		15.1' _____ SEE SHEET 2 FOR DESCRIPTION



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T27

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
14.1'	8R	4.0'	4.0'	19	VERY POOR		<p>BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS AND TRACE RHYOLITE.</p> <p>WEATHERING IS FRESH TO MODERATE</p> <p>JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (24"-12")</p> <p>BOTTOM OF EXPLOZATION AT 30.0'</p>
21.8'	9R	2.7'	2.7'	24	VERY POOR		
26.3'	10R	4.5'	4.5'	29	POOR		
27.5'	11R	1.2'	1.2'	0	VERY POOR		
30.0'	12R	2.5'	2.5'	26	POOR		



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: T-28

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: JEFF W. MCELROY DATE: 8-29-07

SHEET NO.: 1 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
2.0	R-1	2.3	1.3	0	VERY POOR		GRAY RHYOLITE WEATHERING IS MODERATE JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (2'-12")
4.3							
5	R-2	4.3	4.0	51	FAIR		
6							
8.6							
11	R-3	4.7	4.3	66	FAIR		
13.3							
15	R-4	5.0	5.0	51	FAIR		

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: T-28

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: JEFF W. MCELROY DATE: 8-29-07

SHEET NO.: 2 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ(2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
17	R-4	5.0	5.0	51	F A I R	70°	GRAY RHYOLITE WITH MODERATE WEATHERING AND VERY CLOSE TO CLOSE JOINTS
18						(18.3)	
18.3	R-5	4.9	4.9	51	F A I R	40°	GRAY RHYOLITE WITH TRACE CALCITE VEINS, MODERATE WEATHERING, AND VERY CLOSE (0.5"-2") TO CLOSE (2"-12") JOINTS
19						40°	
20						70°	
21						40°	
22						20°	
22.7	R-6	3.5	3.5	0	V E R Y P O O R	10°	GRAY RHYOLITE WITH TRACE CALCITE VEINS HIGHLY WEATHERED WITH VERY CLOSE JOINTS
23.2						(23.4)	
24						80°	
25						60°	
26						80°	
26.7						16°	
26.7	R-7	4.5	4.5	89	G O O D	86°	GRAY RHYOLITE WITH TRACE CALCITE VEINS, WEATHERING IS SLIGHT TO MODERATE AND JOINTS ARE MODERATELY CLOSE (12"-36")
27						80°	
28						16°	
29						30°	
30	R-8	4.5	4.7	47	P O O R	40°	SEE DESCRIPTION ON NEXT SHEET
31						(31.0')	
31.2						30°	

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: 7-28

CLIENT: REED & REED, INC.

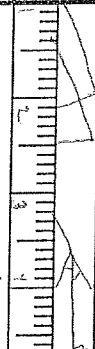

PROJECT NO.: 07-0215

LOGGED BY: JEFF W, McELROY DATE: 8-29-07

SHEET NO.: 3 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
32	R-8	4.5	4.7	47	P 6 6 R		<p>GRAY RHYOLITE WITH TRACE CALCITE VEINS.</p> <p>WEATHERING IS MODERATE.</p>
33							
34							
35							
35.7							
36	R-9	4.3	3.9	58	F A I R		<p>JOINTS ARE VERY CLOSE (0.5" - 2.0") TO CLOSE (2" - 12")</p>
37							
38							
39							
40.0	<p>END EXPLORATION AT 40.0'</p>						





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-729

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0216

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RGD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0.0' - 10.0'	1R	2.9'	2.9'	12	VERY POOR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS.
10.0' - 12.9'	2R	2.0'	2.0'	0	POOR		WEATHERING IS FRESH TO MODERATE
12.9' - 15.2'	3R	2.3'	2.3'	0	VERY POOR		JOINTS ARE VERY CLOSE (0.54-2")
15.2' - 17.4'	4R	2.2'	2.2'	0	POOR		
17.4' - 20.2'	5R	2.8'	2.8'	14	POOR		
20.2' - 22.4'							22.4'
22.4' - 72.0'	6R	5.2'	5.2'	58	FAIR		SAME AS ABOVE WITH CLOSE (2" L 12") JOINTS





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T29

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
25.5'	6R	5.2'	5.2	58	F A I R		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS, WEATHERING IS FRESH TO MODERATE
28.2'	7R	2.8'	2.9	61	F A I R		JOINTS ARE CLOSE (2"-12")
30.0'	8R	1.8'	1.7	83	G O O D		
							BOTTOM OF EXPLORATION 300'





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T30

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RGD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
14.1	1R	4.2'	4.2	21	VERY POOR		<p>DARK GRAY MUDSTONE WITH TRACE CALCITE VEINS.</p> <p>WEATHERING IS FRESH TO MODERATE.</p> <p>JOINTS ARE VERY CLOSE (0.5"-2")</p>
18.3	2R	4.2'	4.5	8	VERY POOR		
22.5	3R	5.1'	5.1	13	VERY POOR		
27.6	4R						





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T.32

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
3.1	1R	2.6'	2.6	38	P O O R		BLACK SULFATIC MUDSTONE WITH TRACE CALCITE VEINS WEATHERING IS FRESH TO SLIGHT. JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (2"-12")
4							
5	2R	2.1'	2.1	40	P O O R		
5.7							
6	3R	2.5'	2.5	48	P O O R		
7							
7.8	4R	2.6'	2.6	44	P O O R		
8							
9	5R	1.5'	1.5	0	V E R Y P O O R		
10.3							
11	6R	2.7'	1.4	0	V E R Y P O O R		
12							
12.9	7R						
13							
14							
14.4							
15							
16							
17.1							
18							



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-732

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
18	7R	2.2'	2.1	32	P O O R		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS WEATHERING IS FRESH TO SLIGHT JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (24"-12")
19.3							
20	8R	2.7'	2.8	63	F A I R		
21							
22.0	9R	4.3'	3.4	63	F A I R		
23							
24							
25							
26 26.3	10R	3.7'	4.1	89	G O O D		
27							
28							
29							
30.0							BOTTOM OF EXPLORATION AT 30.0'





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T33

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
11.1	1R	4.5	4.2	76	GOOD		BLACK SULFIDIC MUDSTONE WITH SOME CALCITE VEINS. WEATHERING IS FRESH TO SLIGHT.
12							
13							
14							
15.6	2R	4.7	5.1	80	GOOD		JOINTS ARE CLOSE (2"-12") TO MODERATELY CLOSE (12"-36")
16							
17							
18							
20.3	3R	5.0	5.0	93	EXCELLENT		
21							
22							
23							
25.3	4R						
26							



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T33

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
26	4R	4.7	4.6	83	G 0 0 0		SEE SHEET 1 FOR DESCRIPTION
27							
28							
29							
30.0							BOTTOM OF EXPLORATION AT 30.0'





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T34

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
7							Till
7.0							
8	1R	1.6'	1.2	0	VERY POOR		BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS.
9.4							
10					P		WEATHERING IS FRESH TO SLIGHT
11	2R	4.1'	4.3	32	POOR		
12							
13.5							
14					P		JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (2"-12")
15	3R	2.0'	2.1	33	POOR		
15.5							
16					P		
17	4R	2.3'	2.6	43	POOR		
17.8							
18					P		
19	5R	3.1'	3.3	40	POOR		
20							
20.9							
21	6R	2.3'	2.3'	20			



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T34

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
22	6R	2.3'	2.3'	20	VERY POOR		<p>22.5' <u>SEE SHEET 1 FOR DESCRIPTION</u></p> <p>BLACK SULFIDIC MUDSTONE WITH TRACE CALCITE VEINS.</p> <p>WEATHERING IS FRESH</p> <p>JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (24"-12")</p>
23							
23.2							
24	7R	3.4'	3.4'	29	POOR		
25							
26							
26.6							
27	8R	0.9'	0.9'	44	POOR		
27.5							
28							
29	9R	5.0'	5.0'	75	GOOD		
30							
31							
32							
32.5							
33							
34	10R	3.8'	3.8'	47	POOR		
35							
36							
36.3							
37	11R						



ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T34

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 3 of 3

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
37 37.8	11R	1.5'	1.5	50	FAIR		
39 39.0	12R	2.2'	1.7	32	P O P		SEE SHEET 2 FOR DESCRIPTION
40.0							BOTTOM OF EXPLORATION AT 40'



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T35

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0 - 5.2	1R	5.2'	5.2	44	POOR		BLACK MUDSTONE WITH TRACE CALCITE VEINS. WEATHERING IS FRESH JOINTS ARE VERY CLOSE (0.5" - 2") TO CLOSE (2" - 12")
5.2 - 8.6	2R	3.4'	3.4	41	POOR		
8.6 - 13.7	3R	5.1'	4.7	45	POOR		

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T35

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0 - 4.9	4R	4.5'	4.9	42	POOR		BLACK SULFATIC MUDSTONE WITH TRACE CALCITE VEINS WEATHERING IS FRESH.
4.9 - 8.6	5R	3.7'	4.0	11	VERY POOR		JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (2"-12")
8.6 - 10.2	6R	1.6'	1.0	0	VERY POOR		
10.2 - 11.6	7R	1.4'	0.5	0	VERY POOR		
11.6 - 33.0							BOTTOM OF EXPLORATION AT 33.0'





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T36

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
2.6'							
	1R	2.9'	2.9	64	FAIR		BLACK SULFATIC MUDSTONE WITH TRACE CALCITE VEINS. WEATHERING IS FRESH TO SLIGHT
5.5'							
	2R	4.9'	4.5	59	FAIR		JOINTS ARE VERY CLOSE (0.5"-2") TO CLOSE (2"-12")
10.4'							
11.3'	3R	0.9'	1.3	0	VERY POOR		
12.2'	4R	0.9'	0.9	41	POOR		
	5R	2.4'	2.4	56	FAIR		
14.6'							
	6R	3.6'	3.6	25	POOR		





ROCK CORE LOG

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T36

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
18.2'	6R	3.6'	3.6	25	POOR		SEE SHEET 1 FOR DESCRIPTION
22.5'	7R	4.3'	2.7	37	POOR		
23.4'	8R	0.9'	2.9	34	POOR		
24.6'	9R	1.2'	1.2	0	VERY POOR		
29.1'	10R	4.5'	4.5	47	POOR		
30.0'	11R	0.9'	0.0	0	VERY POOR		
							BOTTOM OF EXPLORATION AT 30.0'



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T39

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 1 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
15.1	1R	2.1'	2.1'	$\frac{1.0}{2.1}$ 48%	P O O R		<p>BLACK SULFATIC MUDSTONE WITH TRACE CALCITE VEINS.</p> <p>WEATHERING IS FRESH TO SLIGHT.</p> <p>JOINTS ARE VERY CLOSE (0.5" - 2") TO CLOSE (24" - 12")</p>
16.7	2R	3.6'	3.5'	$\frac{2.8}{3.6}$ 78%	G O O D		
20.3	3R	1.6'	1.6'	$\frac{1.05}{1.6}$ 65%	F A I R		
23.6	4R	3.3'	3.1'	$\frac{2.2}{3.3}$ 67%	F A I R		
26.9	5R	3.3'	2.8'	$\frac{1.75}{3.3}$ 53%	F A I R		
	6R	2.3'					



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T39

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: _____ DATE: _____

SHEET NO.: 2 of 2

CHECKED BY: _____ DATE: _____

CORE SIZE: NQ (2")

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0 - 23'	6R	23'	23'	1.6' 2.3' 70%	F A I R		
23' - 45'	7R	4.5'	4.5'	2.45' 4.5' 54%	F A I R		
45' - 48.5'	8R	3.5'	3.5'	0.45' 3.5' 13%	V E R Y P O O R		
48.5' - 49.5'	9R	2.8'	2.8'	43%	P O O R		
							BOTTOM OF EXPLORATION AT 40.0'



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T 41

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: AJD

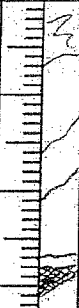
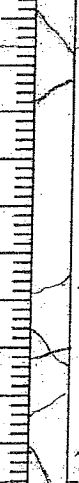
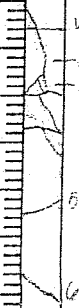

DATE: 8/15/07

SHEET NO.: 1 of 2

CHECKED BY: CHR

DATE: 8-15-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
5.0'	1R	4.8'	4.8'	$\frac{7.5 + 1.9}{4.8} = \frac{3.1}{4.8}$ 64.6%	FAIR		WEATHERED SURFACE GRAY-BROWN VOLCANIC ROCKS - HARD - SLIGHTLY TO MODERATELY WEATHERED
9.8'	2R	4.6'	4.6'	$\frac{2.35 + 2.1}{4.6} = \frac{4.45}{4.6}$ 96.7%	EXCELLENT		- LITTLE RUST STAINING ON FRACTURE SURFACES
14.4'	3R	4.9'	4.9'	$\frac{3.2}{4.9} =$ 65.3%	FAIR		SAME ROCK TYPE AS ABOVE - FRACTURES ~ 20°, 55°-75° AND 80°-90° FROM HORIZONTAL
19.3'	4R			1.85'			

(CONTINUED ON SHEET 2)



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T41

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO DATE: 8/15/07

SHEET NO.: 2 of 2

CHECKED BY: GWB DATE: 8-15-07

CORE SIZE: NQ-2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
23.9'	Cont. 4R	4.6'	4.6'	4.6 / 4.6 = 100%	EXCELLENT		GRAY-BROWN VOLCANIC ROCKS - HARD - SLIGHTLY WEATHERED - SOME RUST STAINS ON FRACTURE SURFACES
28.9'	5R	5.0'	5.0'	1.35' + 3.65' = 4.95' / 5.0' = 99%	EXCELLENT		SEVERAL SURFACE FRACTURES - FRACTURES @ 20°-25°, 55°-60° FROM HORIZONTAL
30.0'	6R	1.1'	1.1'	100%	EXCEL		SAME ROCK TYPE AS ABOVE
							BOTTOM OF EXPLORATION



PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

 BORING NO.: B-T42

 CLIENT: REED & REED, INC.

 PROJECT NO.: 07-0215

 LOGGED BY: PJD

 DATE: 8/14/07

 SHEET NO.: 1 of 2

 CHECKED BY: GWR

 DATE: 8-14-07

 CORE SIZE: NQ - 2

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	ROD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
5.0'	1R	2.0'	2.0'	0%	VERY POOR	-70° -80°	GRAY-BROWN VOLCANIC ROCKS - MODERATELY HARD
7.0'							- HIGHLY FRACTURED ROCK
	2R	2.0'	1.3'	$\frac{.35}{2.0}$	VERY POOR		- HIGHLY FRACTURED ROCK - MODERATELY WEATHERED
9.0'				17.5'			- ZONE OF NO RECOVERY
9.8'	3R	.8'	.8'	0%	VERY POOR	-70°	- HIGHLY FRACTURED ROCK
10.8'	4R	1.0'	0	0%	VERY POOR		- ZONE OF NO RECOVERY - RUST STAINS ON FRACTURE SURFACES
11.7'	5R	.9'	.7'	0%	VERY POOR	-30° -60° -ZONE OF NO RECOVERY	- HIGHLY FRACTURED ROCK - POOR CORE RECOVERY
	6R	2.6'	2.6'	$\frac{1.15}{2.6}$	POOR	45° 45° 50° 70°	
14.3'				44.2%			
14.8'	7R	.5'	.5'	0%	VERY POOR		- HIGHLY FRACTURED RECOVERY
	8R	2.5'	2.5'	$\frac{.7}{2.5}$	POOR		- FRACTURES @ 30°-50° AND 60°-90° FROM HORIZONTAL
17.3'				28%		-65°	- HIGHLY FRACTURED ZONE
	9R	1.4'	1.2'	0%	VERY POOR	60-90°	
18.7'							- VERTICAL FRACTURE
	10R	4.0'	4.0'				

PROJECT: STETSON MOUNTAIN WIND FARM DANFORTH, MAINE

BORING NO.: B-T42

CLIENT: REED & REED, INC.

PROJECT NO.: 07-0215

LOGGED BY: PJO

DATE: 8/14/07

SHEET NO.: 2 of 2

CHECKED BY: GWO

DATE: 8-14-07

CORE SIZE: NQ

DEPTH BELOW SURFACE (FT)	CORE RUN	CORE INTERVAL (FT)	CORE RECOVERY (FT)	RQD (%)	ROCK QUALITY	GRAPHIC LOG	ROCK DESCRIPTION AND IDENTIFICATION
0 - 22.7	com. 10R	4.0'	4.0'	$\frac{1.02}{4.0'} = 25.5\%$	POOR	75° HORIZONTAL FRACTURES	GRAY-BROWN VOLCANIC ROCKS - MODERATELY HARD
22.7 - 26.8	11R	4.1'	4.1'	$\frac{.35 + .33 + 1.2 + .9}{4.1'} = 75.9\%$	GOOD	80° 70° 40°	- SLIGHTLY WEATHERED - RUST STAINS ON FRACTURE SURFACES
26.8 - 30.0	12R	3.2'	3.2'	$\frac{.8 + .9 + .8 + 2.5}{3.2} = 78.1\%$	GOOD	70-80° 30°	- FRACTURES @ 0°-30°, 40°-50°, AND 70°-90° FROM HORIZONTAL
30.0 - 35.0						HORIZONTAL FRACTURES	BOTTOM OF EXPLORATION