

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING

INCLINATION

DEPTH 169'

Logged By: J. R. Rand 11/27/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
0' 10'			
20' Breaks @ .1' to 1' pieces on low angle joints	65° joint at various strikes. Some joints show slickenside effect	Rock is fresh, not rusty on joints. Minor vuggy @ 23'-24'	No. 5' TOP OF ROCK Coarse fine Quartz diorite, predominantly fine-grained, medium-dark-grey, massive texture
30' Core Broken on joints @ chips to .6' pieces	Most joints @ 30°-40° dips @ close intervals from .1' to .6' apart	Rock is fresh, very minor dusty coatings on joints, but not rusty. Joints frequently show slickensides or smeared chlorite	Quartz diorite, fine grained, medium dark grey, fairly massive but locally shows vague foliation texture. Narrow veinlets sometimes show minor vuggy solution effects inclusion breccia-welded
50' Core is extensively broken into siver-like chips. incipient slickensides?	65° joint shear attitude Higher chlorite content	Rock is fairly fresh, but is softened by close-spaced shearing? Some minor vuggy openings, No rust	Becomes coarser-grained Quartz diorite, medium-coarse-grained. Rock is extensively broken in possible shear zone. Rock is inherently slippery due to chlorite. Minor stains but not Rusty.
70' Core Broken @ .1' to .3' pieces Minor light rust stains locally	chips 73' Base of vugs in Rock	Rock is fresh, Minor vuggy on high-angle joints. Most such joints are not open-welded	Diorite, fine-grained dark grey locally with medium coarse grained quartz-diorite
80'		Rock is fresh, not vuggy	

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING INCLINATION

DEPTH 72'

Logged By: J. R. Rand 7/11/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
0			1.5' Top of Rock -
Breaks @ chips to .8' pieces	chips	Rock is slightly weathered, pitted with weak rust staining on joints	Diorite - light grey coarse grained
10'		60° to 70° joints @ 2' intervals	Diorite - medium dark grey, fine grained, massive
20'	chips		pegmatite, quartz, feldspar with bull quartz in center
Breaks @ chips to 1.5' pieces	chips in key Rusty	Rock is fresh - only occasional very minor rust staining on joints	Diorite dark grey fine grained, as above
30'			pegmatite veinlet
40'	Breaks @ .1' to 2' pieces	Rock is fresh minor staining on joints	Diorite, Dark grey, fine grained, with occasional coarse-grained zones
50'			coarse
60'	Breaks @ chips to 3.5' pieces	Rock is fresh only minor rusty staining locally on joints	Diorite dark grey, fine-grained, with occasional zones of intermixed light grey, coarse grained diorite
70'	chips	slight weathering @ 64'	coarse
80'	Slight weathering chips	as shown	2056 Bottom of Hole

PROTECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING INCLINATION

DEPTH 125.0'

Logged By: J. R. Rand 12/11/72

70'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
80'	Breaks @ .1 to 1.5' pieces on low-angle joints	MOST JOINTS @ 20° TO 30° DIPS, @ .3' TO 1' INTERVALS 85° TO 90° JOINT	Rock is fresh. Not rusty on joints. Some pyrite coatings on joints	Quartz diorite, predominantly micaceous (chloritic) fine-grained, dark-greenish grey DARK MICACEOUS ROCK NOT METASEDIMENTARY
100'	Broken on low angle joints @ .5 to 1' intervals	JOINTS ARE CLEAN, LOW ANGLE @ 20° TO 30° 85° JOINT CALCITE FILLED NO SLICKENSIDES	Rock is fresh through-out	Quartz diorite, medium-coarse-grained, medium grey. locally intermixed with fine-grained diorite near top of section.
110'	Good drilling Breaks @ wide intervals	CLEAN LOW ANGLE JOINTS DRILLER	Rock is fresh through-out	Quartz diorite, intermixed coarse and fine grained rock types
125'	125' Bottom of Hole			
130'				

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION 28.9'

BEARING INCLINATION

DEPTH 150.1'

Logged By: J. R. Rand 12/26/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
<p>70'</p> <p>Breaks @ wide spaces @ .5' to 3' pieces</p>	<p>Rock is fresh. Low angle joints @ wide intervals, up to 3' apart. Minor rust and slight weathering localized on high angle joints.</p>		<p>Quartz diorite, mixed fine grained dark grey patches in coarse grained lighter grey matrix. Become fine grained below 87.5'</p>
<p>80'</p> <p>Breaks @ .5' to 3' pieces</p>	<p>60° joint set minor rust slightly weathered</p> <p>60° joint, minor rust .1' Heavy rust, severely weathered 50° dip</p> <p>Rock is fresh, joints are clean. 0.1' of soft severely weathered zone @ 95.7' to 95.4' dip</p>		<p>FINE GRAINED</p> <p>COARSE GRAINED</p> <p>FINE GRAINED</p> <p>Low angle joints @ 30° to 40° dips @ .5' to 3' intervals</p>
<p>90'</p> <p>Breaks @ chips to .8' pieces</p>	<p>vertical joint clean</p> <p>65° joints rusty</p> <p>Rock is fresh, locally rusty on joints. 119.7' to 120.8' is severely weathered zone. Soft, rusty, Rock in place but decomposed zone dips 45°</p>		<p>50° Foliation</p> <p>70° Contact TIGHT WELDED WITH CHILL ZONE Diabase Dike, very fine grained, sub-black, dark olivine speckling</p>
<p>100'</p> <p>WEATHERED</p>	<p>severe weathering on foliation for 1.1' of core minor rust vuggy 60° joint</p> <p>Low angle joints @ about 30° dips</p>		<p>65° CONTACT, TIGHT, WELDED, WITH CHILL ZONE</p> <p>Quartz diorite, medium-fine-grained medium grey. Fairly massive texture</p>
<p>110'</p> <p>Breaks @ .1' to 3.5' pieces</p>	<p>70° joint clean</p> <p>Rock is fresh, not rusty on joints. Joints @ 30°</p>		<p>Low angle joints @ 1' to 2' intervals. Rock Drills well</p>
<p>120'</p> <p>Breaks @ .3' to 1.6' pieces</p>	<p>Rock is fresh, No rust on joints.</p>		<p>COARSE</p>
<p>130'</p> <p>Breaks @ .3' to 1.6' pieces</p>	<p>55° joint clean</p>		<p>150.1' Bottom of Hole</p>

PROJECT SEABROOK STATION _____

HOLE LOCATION 20.300 N 79.400 E ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH _____

Loggea By: J. R. Rand 12/27/72

CONDITION OF CORE

DIP

GRAPHIC LOG

DESCRIPTIVE NOTES

0

4'-Top of Rock

Core
breaks @
10'
chips
to .8'
pieces

70° joint
Chips
Rusty Chips
70° joint
Chips, slight
weathering
Rusty

Rock is essentially
fresh - locally
slightly weathered
on joints, minor
rust - low angle
joints dip 30°
occur @
.2' to 1'
intervals

x x x
x x x
x x x
x x x
x x x
x x x
x x x
x x x
x x x
x x x
x x x

Quartz diorite, mixed
fine-grained, dark grey
and coarse-grained
light grey matrix

20'

55° joint
Rusty

egmatite veinlet

24' bottom of hole

30'

40'

PROJECT SEABROOK E/ STATION

HOLE LOCATION

ELEVATION

BEARING

INCLINATION

DEPTH- 65.3'

Logged By: J. R. Rand 12/13/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
			<p>boulder- Quartz diorite, micaceous, foliated</p> <p>5.3' Top of Rock</p>
<p>Core is broken @ Chips to 1' pieces on low- and high-angle joints</p>	<p>70° joint, rusty</p> <p>70° joint, rusty, vuggy</p>	<p>Rock is fresh Minor rusty staining on joints</p> <p>At 25'-27' rock is subjected to vuggy solution effects.</p>	<p>Quartz diorite, mixture of coarse and fine grained rock types</p> <p>50°</p> <p>dominantly fine-grained</p> <p>dominantly coarse-grained</p> <p>high angle (70°-75°) intrusive contact, welded</p>
<p>Core breaks @ Chips to .3' pieces on low- and high-angle joints</p>	<p>75° joint</p> <p>70° joint</p> <p>65° joints</p> <p>80°-40° joint, chlorite smeared moderate weathering, heavy rust</p> <p>70° joint, rusty</p>	<p>Rock is fresh, prominent rust formation on joints. Joints occur at .1' to .3' intervals</p>	<p>Diabase dike, dark grey to sub-black, fine grained, massive with pyrite specks and knots.</p> <p>Rock closely jointed at various strikes and dips. Low angle (10°-30°) joints predominate.</p>
<p>Core Breaks @ .1' to 2' pieces on 20°-30° low angle joints</p>	<p>rusty</p> <p>75° joint, rust coated</p> <p>75° joint, rust coated</p>	<p>Rock is fresh. Rusty coatings on low angle and high angle joints at widespread intervals as shown.</p>	<p>Diabase dike, as above, massive, sub-black, fine grained rock.</p>
			<p>5.3' Bottom of Hole</p>

PROJECT SEABROOK STATION _____

HOLE LOCATION _____

ELEVATION _____

BEARING _____ INCLINATION _____

DEPTH 33.0'

Logged By: J. R. Rand 12/17/72

	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
0'				
10'				
20'	Core Breaks on 30° joints @ 6" to 2' intervals Rusty Rusty	Rock is fresh, Joints normally are clean, but locally have rusty coating as shown. Joints dip 30° to 40°. No high angle joints.	x x	3.0' Top of Rock Quartz diorite, medium grained, medium-dark greenish grey, speckled texture, massive. Transitional Contact Quartz diorite, coarse grained light grey
30'				
40'				
50'				
60'				
70'				
80'				
90'				
100'				

PROJECT SEABROOK STATION

DDH D1-7

PAGE 1 of 2

HOLE LOCATION _____

ELEVATION _____

BEARING _____

INCLINATION _____

DEPTH 118.7'

Logged By: J. R. Rand 12/12/72

CONDITION 1 OF CORE DIP GRAPHIC LOG DESCRIPTIVE NOTES

0'					
10'					
15.4'					15.4' Top of Rock
20'	Broken @ .1' to 2' pieces	Most joints @ 20°-30° dips 80° joint, clean 70° joint 80°-90° curved joint 60° joint	Rock is fresh, no rust on joints. Low angle (20°-30°) joints @ 1' to 2' intervals. High angle joints @ 1' to 4' intervals @ various orientations		medium coarse Fine ↓ Quartz diorite, predominantly fine grained, medium grey, locally, with high angle (70°-85°) foliation texture.
30'					
40'	Breaks @ .1' to 2' pieces	curved joint 70°-90° Pyrite 60°-70° joints on foliation	Rock is fresh. Joints tend to lie on foliation planes, but also cross-cut foliation planes. Pyrite on joints		Quartz diorite, fine-grained, foliated. Jointing frequently follows biotite concentrations along foliation planes. Also cross-cuts foliation at 30°-40° dips.
50'					
60'	Breaks @ .2' to 2' pieces	80° joint 60° joints joints @ 50°-60° dips	Rock is fresh. Joints follow both high-angle foliation and 30°-40° low angle. Variable joint patterns. No rust. Pyrite on some joints.		Quartz diorite, as above. Fine-grained foliated at 60°-80° dips
70'					
80'					

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING

INCLINATION

DEPTH 118.7'

Logged By: J. R. Rand 12/12/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
<p>70'</p> <p>Breaks @.2'to2' pieces</p> <p>80° joint</p> <p>65° joint</p> <p>80° joint</p> <p>85° joint</p> <p>80° joint</p> <p>85° joint</p> <p>80° joint</p> <p>85° joint</p> <p>Chips, not rusty</p> <p>Breaks @1'to2' pieces</p> <p>55° joint</p>	<p>Rock is fresh.</p> <p>Joints @ 6" to 2' intervals @ 30°-40° dips. Occasional high-angle joints</p> <p>Rock is fresh.</p> <p>Joints @ 10°-30° plus high angle.</p> <p>At 105'-106.5' Rock is weakened on joint/foliation. Not rusty, but may be moderately weathered</p> <p>Rock is fresh, breaks on 30°-40° joints @ 1' to 2' intervals</p>	<p>45°</p>	<p>Quartz diorite, fine-grained, medium-grey, foliated. Foliation @ 45° to 70° dips. Rock parts on biotite foliations and across foliation at various attitudes</p> <p>Quartz diorite, fine-grained, locally foliated, medium-grey</p> <p>Fine-grained, only weakly foliated to massive texture</p>
<p>80'</p> <p>90'</p> <p>100'</p> <p>110'</p> <p>120'</p>			<p>118.7' Bottom of Hole</p>

PROJECT SEABROOK STATION DDH D1-8 PAGE 1 of 1

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 29.5

Logged By: J. R. Rand 12/11/72

6'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
10'	Core Broken into chips	30° dipping joints @ 3'-6" intervals, slightly rusty	x x x	7' Top of Rock
	CHIPS →		x x	Quartz diorite, predominantly medium-fine-grained, locally foliated. Medium-grey color.
			x x x	Some minor vug development to about 20' depth. Foliation is very steep to vertical.
	CHIPS →	70° joints, rusty	x x x	
			x x	
	CHIPS →	Joints not rusty, pyrite smeared	x x x	
			x x	
			x x x	
			x x	
			x x x	
			x x	
			x x x	
			x x	
			x x x	
			x x	
			x x x	
			x x	
			x x x	29.5' Bottom of Hole
			x x	
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PROJECT SEABROOK STATION _____

DD: D1-4

PAGE 1 OF 1

HOLE LOCATION _____

ELEVATION _____

BEARING _____

INCLINATION _____

DEPTH _____

Logged By: J. R. Rand 12/13/72

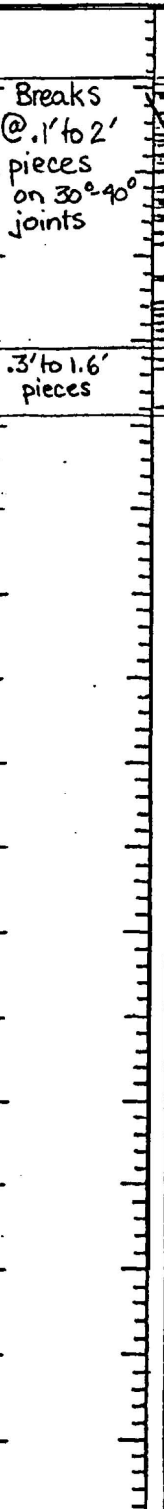
CONDITION OF CORE

DIP

GRAPHIC LOG

DESCRIPTIVE NOTES

0'
5'
10'
15'
20'
25'
30'
35'
40'
45'
50'
55'
60'
65'
70'
75'
80'
85'
90'



70° joint, rusty

Rock is fresh.

Breaks on 30°-40° dipping joints @ .3' to 1' intervals

Rusty

Rock is fresh. Locally rusty staining on some joints.



1.5' Top of Rock

Quartz diorite. Mixed fine-grained dark-grey micaceous rock in coarse-grained lighter grey matrix. Rock is foliated. Layering @ 60° dip

anitic texture, foliated

Porphyritic quartz diorite, as at bottom of hole D2-4

4.5' Bottom of Hole

Breaks @ .1' to 2' pieces on 30°-40° joints

.3' to 1.6' pieces

PROJECT SEABROOK STATION

HOLE LOCATION






ELEVATION

BEARING

INCLINATION

DEPTH

Logged By: J. R. Rand 12/12/72

0'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES	
10'				<p>Boulders</p> <p>12' TOP OF ROCK</p>	
20'	<p>Broken @ Chips to 1' pieces</p>	<p>65° joint</p> <p>60°-70° joints Chips</p> <p>30° joint</p>	<p>Rock is fresh. Rusty staining on some joints, not on all joints. Rock breaks normally on 30°-40° dipping joints @ 1' intervals</p>		<p>Quartz diorite, medium-coarse grained, light medium grey. Locally foliated @ high angle (60°-70°) dips.</p> <p>VERY FINE GRAINED ROCK Relict quartzite layer, partially recrystallized by diorite(?)</p>
40'	<p>Breaks @ .3' to 2' intervals on 30°-40° joints</p>	<p>Rusty joint</p> <p>60°-90° joint with pyrite</p>	<p>Rock is fresh. No rust on joints. High angle joints infrequent. Most breaks on 30°-40° joints</p>		<p>Quartz diorite, medium-coarse grained, medium light grey. Locally some foliation @ steep dips. Finer grained near top of section.</p>
60'	<p>Breaks @ .2' to 1.5' intervals</p>	<p>70°-90° joint with pyrite</p> <p>Smooth 60° joint with pyrite</p>	<p>Rock is fresh. Not rusty on joints. Most joints are @ 30° dips, not smooth. Some pyrite coatings on high angle joints</p>		<p>finer grained</p>
80'	<p>Breaks @ .3' to 3' intervals</p>	<p>65° joint</p>	<p>Rock is fresh, not rusty on joints. Most breaks on low-angle 20°-30° joints.</p>		<p>finer grained</p> <p>Quartz diorite, fine-grained medium grey, foliated. Foliation is steep, 60°-90° and wavy</p>

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING INCLINATION

DEPTH 112'

Logged By: J . R . Rand 12/12/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
Breaks @ Chips to 1' pieces Broken on smooth 85°-90° joint chips	Rock is fresh. Breaks on low angle (10°-30°) joints High angle (85°-90°) joint set @ 90' depth has pyrite coating		very fine-grained rock, massive, welded Quartz diorite, fine-grained, medium-grey, foliated Becomes coarse-grained rock
Breaks @ 1' to .6' pieces throughout 70°-90° rough joint	High angle joints are curved, have chlorite or biotite smooth surfaces with pyrite		112' Bottom of Hole

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING

INCLINATION

DEPTH 65.5'

Logged By: J. R. Rand 12/12/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
0'			
Broken @ Chips to .6' pieces throughout	85° joint Joints are mostly low-angle @ 10°-30° dips	Rock is slightly weathered to 15' Rock is fresh, with minor rusty stains on joints locally to 18.7' Pyrite coatings on joints below 18.7'	12.5' Top of Rock Coarser-grained Finer ↓ Quartz diorite. Predominantly fine-medium grained, medium-grey with local foliation textures. Foliation @ 80° or steeper
Breaks @ .2' to 1.5' pieces	85° joint 85° joint 70° joint	Rock is fresh. Breaks mostly on 10°-30° Low angle joints @ 1'-2' intervals	Coarser dark-greenish diorite
Breaks @ .3' to 2' pieces		Rock is fresh. Joints @ 30°-40° dips @ 1' to 2' intervals	Coarser dark-greenish Quartz diorite, predominantly fine-grained, not notably foliated. Local zones of coarser grained, dark greenish diorite.
65.5'			65.5' Bottom of Hole

PROTECT SEABRCOK STATION DDH DI-12 PAGE I of I

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 29.5'

Logged By: J . R. Rand 1/13/72


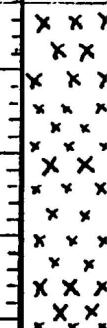
0'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
15'	Rock Breaks @ .3' to 1' pieces	Joints @ 30°-40° dips throughout	Rock is fresh. Minor rusty staining on some joints	15' Top of Rock micaceous Quartz diorite, fine grained, quite micaceous (biotite) in zones and knots, enclosed in coarse-grained quartz diorite matrix.
20'	Breaks @ .1' pieces .5' to 1.3' pieces	Rusty, slight weathering on joints 65° joint	Rock is fresh, subject to minor weathering and rusty staining on joints. Rock is Fresh, Not Rusty	micaceous rock Micaceous rock type is not apparently metasedimentary. Has rather massive texture
29.5'				29.5' Bottom of Hole

PROJECT SEABROOK STATION DDH D2-1 PAGE 1 of 1

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 31.0'

Logged By: J. R. Rand 12/12/72

0'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES	
					Boulders - quartz diorite 11' Top of Rock
6' 20' 30'	Rock Breaks @ .1' to 1.5' pieces on low angle (30°) joints	85° joint Rock is moderately weathered, rusty, vuggy Rock is fresh, minor rusty staining on some joints 2' severe weathering, soft MINOR RUST ON ONE JOINT		Quartz diorite, predominantly fine-grained medium grey, with occasional zones of coarser-grained, light-medium-grey matrix. Rock becomes a little coarser grained	
40'				11' Bottom of Hole	

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING

INCLINATION

DEPTH 60.0'

Logged By: J. R. Rand

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
0'			
			25.2' Top of Rock
Core breaks on joints @ Chips to .5' pieces	Chips, minor rust 65° joint, rusty Rusty 60° joint RUSTY	Rock is slightly weathered to about 31'. Fresh below 31'. Joints show local rust coatings and some slight rock weathering.	DIABASE DIKE, WELDED CONTACTS DIP 60° Quartz diorite, fairly coarse-grained, medium-grey micaceous
Core Breaks @ Chips to 1' pieces	Chips, minor rust Most joints @ 30°-40° dips 65° joint	Rock is fairly fresh to fresh. Some dusty coating on joints. Feldspars a little discolored	50° intrusive contact, welded Diabase dike, sub-black, fine-grained 50° intrusive contact, welded Quartz diorite, predominantly coarse-grained QUARTZITE INCLUSION(?)
Chips to 3.3' piece	Chips, minor rust 60° joint, powder coating	Rock is fresh	50° intrusive contact, welded medium-fine-grained Diabase dike, sub-black, fine grained, crystalline hill zone at base - Near a contact(?) 0.0' Bottom of Hole

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING

INCLINATION

DEPTH 171.0'

Logged By: J. R. Rand 11/24/72

CONDITION OF CORE

DIP

GRAPHIC LOG

DESCRIPTIVE NOTES

0'

10'

20'

30'

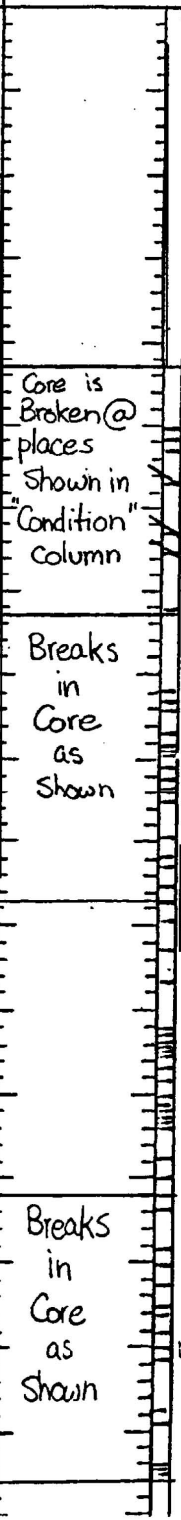
40'

50'

60'

70'

80'



Rock is fresh, not weathered. 65° foliation

30° joint, smooth, clean, no rust

30° joint, no rust

25° joint, clean on 30° dip.

Very thin veinlets.

No slickensides

slight bleaching, Rock is strong. 60° foliation

30° dip on veinlets in Breccia zone

Rock is fresh, as above

Core breaks are characteristically @ 30° dip attitudes

Rock is fresh, as above. Tends to part on 30° dipping joints, or very thin 30° veinlets



21.5' Top of Rock

Quartz diorite, medium-grey, medium-coarse-grained, with local fine-grained dark grey diorite zones as shown. Rock is predominantly finer-grained diorite. Fresh, crystalline

fine grained

mixed coarse and fine diorite

Fine-grained

52.1' to 53.5' is welded, healed, solid breccia zone

Diorite, as above, mixed coarse-grained light grey quartz diorite matrix, enclosing fine-grained, dark grey diorite inclusions.

Rock becomes predominantly coarse-grained, with relatively small zones of fine-grained diorite.

PROJECT SEABROOK STATION _____

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH _____

Logged By: J. R. Rand 11/24/72

	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
80' 90' 100'	88.2' Breaks in Core as Shown Driller breaks 60° joint, clean	Rock is fresh, as above. No rust or staining. Drills well through-out.		Quartz diorite, as above, predominantly coarse-grained medium grey, with occasional patches of fine-grained, dark grey diorite.
100' 110' 120'	Breaks in Core as Shown Driller break 30° joints 65° joint, clean	No slickensides on joints		- Fine
120' 130'	Breaks in Core as Shown Driller break	Breaks in core as shown are commonly on 30° dipping joints.		- Fine Quartz diorite, as above, predominantly coarse-grained.
130' 140'	Driller break 45° joint	Joints are clean, not slickensided, and do not dip uniformly in one direction.		- Fine-grained diorite Fine-grained diorite
140' 150'	Driller break	Rock is fresh, as above.		- 10° veinlets, welded micro-fault, tight coarse
150' 160'	Driller break			53.0' INTRUSIVE CONTACT, IRREGULAR AT 65° DIP Porphyritic quartz diorite, coarse grained, massive texture, medium grey with slight greenish tings.

PROJECT SEABROOK STATION _____

DDH D2-4

PAGE 3 of 3

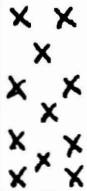
HOLE LOCATION _____

ELEVATION _____

BEARING _____ INCLINATION _____

DEPTH 171'

Logged By: J. R. Rand 11/24/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
Core Broken as shown	Rock is fresh, not weathered		Porphyritic quartz-diorite, massive, coarse-grained, medium-grey.
			" Bottom Of Hole

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING

INCLINATION

DEPTH 65.0'

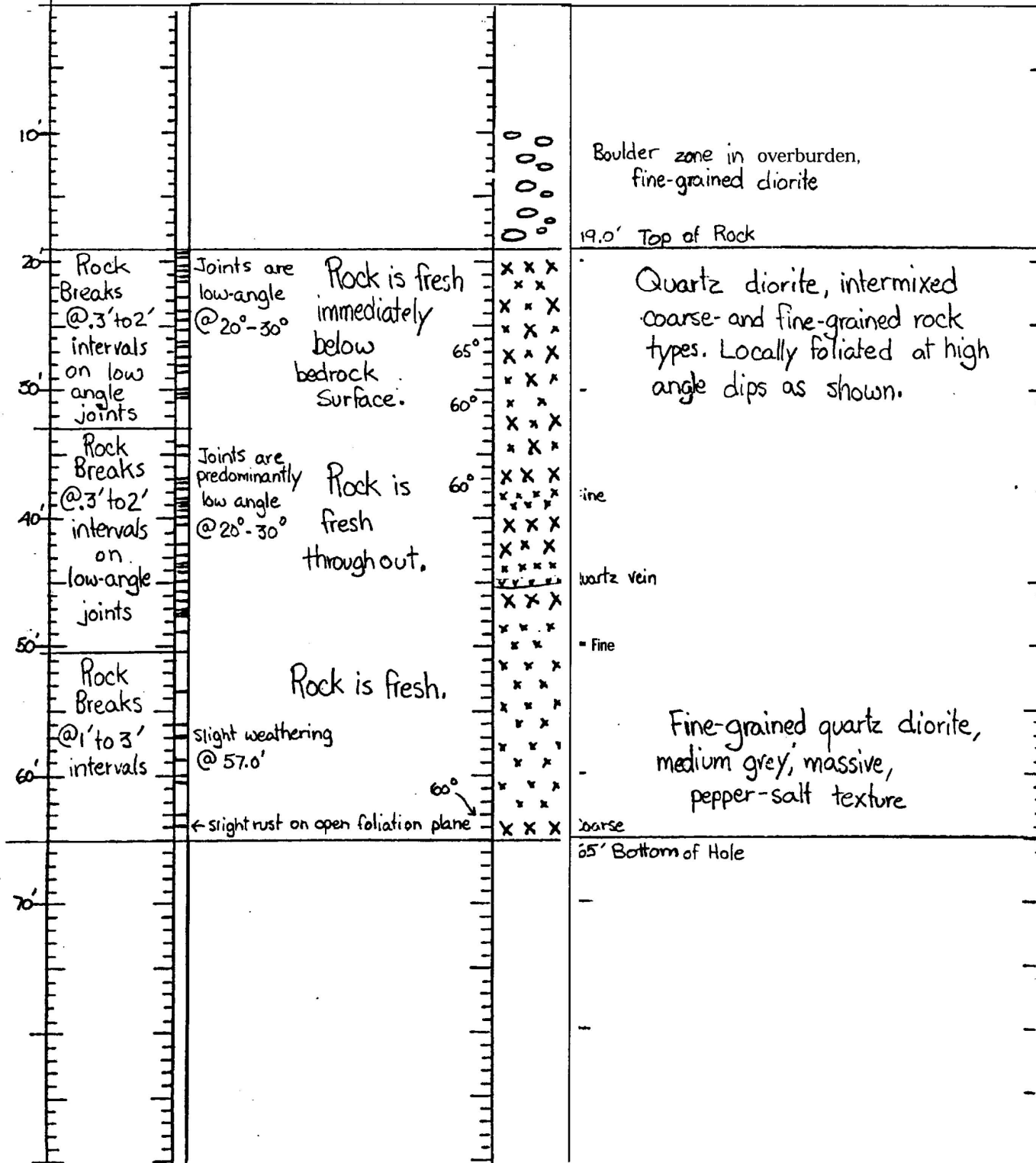
Logged By: J. R. Rand 12/11/72

CONDITION OF CORE

DIP

GRAPHIC LOG

DESCRIPTIVE NOTES



PROJECT SEABROOK STATION _____

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 99.2'

Logged By: J. R. Rand 7/10/72

	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES	
60'					
80'	Breaks @ .1' to 1.5' pieces	Rusty	Rock is fresh. Good drilling. locally is minor rust. Stained on joints	+ + + + + +	Diabase - Dark-grey, fine-grained with small dark green phenocryst speckling
90'	Breaks @ chips to .8' pieces	Rusty Rusty Rusty Rusty	Rock is fairly fresh to fresh. local rust on joints	+ + + + + + + +	Diabase - Dark-grey, fine grained with small dark-green phenocryst speckling
100'	99.2' Bottom of Hole				
110'					

PROJECT SEABROOK STATION _____

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 34.3'

Logged By: J. R. Rand 7/12/72

0'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
10'				
20'	Breaks @ chips to 1.4' pieces		CHIPS CHIPS CHIPS	Rock moderately weathered. Rusty stained. Minerals discolored. Rock is fairly fresh, showing rusty staining only on partings. 80°
30'	Breaks @ 1' to 1' pieces			Rock is fresh with only minor rusty staining on some joints.
40'				
				13' Top of Rock
				Diorite - coarse grained, light grey Porphyritic
				Mica Schist - very fine grained Grey. wavy foliation. Steep dip to foliation. (80°) Locally fine quartzitic rock. Schist - fine grained grey mica. Schist - sub-vertical foliation
				34.3' Bottom of Hole

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING INCLINATION

DEPTH 25.4'

Logged By: J. R. Rand 7/11/72

0'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
				4.2' Top of Rock
10'	Breaks @ chips to .8' pieces		<p>CHIPS</p> <p>Rock is fresh with only minor rusty staining, slight mineral discoloration on some joints</p> <p>CHIPS</p>	<p>COARSE</p> <p>Diorite, fine-grained, Dark-grey, massive, with local intermix of coarse-grained light grey porphyritic diorite.</p>
20'	CHIPS TO .6' pieces		<p>CHIPS</p> <p>Slight to moderate weathering, Rust, DISCOLORED</p> <p>CHIPS</p>	<p>COARSE</p> <p>At base fine diorite is discolored to dull brown, (mod. weathering)</p>
				25.4' Bottom of Hole
30"				
40"				

PROJECT SEABROOK STATION _____

HOLE LOCATION _____

ELEVATION _____

BEARING _____

INCLINATION _____

DEPTH 28.0'

Logged By: J. R. Rand 7/11/72

CONDITION OF CORE

DIP

GRAPHIC LOG

DESCRIPTIVE NOTES

0'

8' Top of Rock

10'

Breaks @ Chips to 1/2" pieces

RUSTY CHIPS

Rock is fairly fresh, with only slight weathering on veinlets, and minor rusty stains on joints

X X X
X X X
X X X
X X X
X X X
X X X
X X X
X X X

COARSE
COARSE
COARSE
COARSE

Diorite, Dark grey, Fine-grained type predominates
Diorite, mixed dark grey, Fine-grained in light grey, Coarse-grained porphyritic

20'

.1' to .8' pieces

CHIPS

Rock is fresh

8' Bottom of Hole

30'

40'

PROJECT SEABROOK STATION _____

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 160.0'

Logged By: J. R. Rand

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
<p>30'</p> <p>40'</p> <p>50'</p> <p>60'</p>			
<p>60'</p> <p>70'</p> <p>80'</p> <p>90'</p> <p>Core breaks in chips to .3' pieces throughout</p>	<p>Rock is slightly to moderately weathered, Local decomposition, some rusty staining on partings</p> <p>35°</p> <p>45°</p>		<p>30' Top of Rock</p> <p>Metasediment - feldspathic schist, locally quartzitic light grey fine grained rock - evenly foliated.</p>

PROJECT SEABROOK STATION _____

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 160.0'

Logged By: J. R. Rand

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
<p>80'</p> <p>Breaks @ chips to .2' pieces throughout</p>		<p>Rock is moderately weathered throughout, somewhat softened, bleached, with dull iron staining on joints, tan bleaching in micas. Poor coring rock</p>	<p>Metasediment - fine-grained feldspathic schist, locally light grey quartzitic</p>
<p>110'</p> <p>Breaks @ chips to .4' pieces throughout</p>	<p>Chips through-out</p>	<p>Moderately weathered rock, somewhat bleached, vuggy along foliation planes, some light rusty staining Not a strong rock inherently</p>	<p>Fine-grained, light grey feldspathic schist - Fairly evenly foliated rock</p>
<p>140'</p> <p>Breaks @ chips to .8' pieces</p>	<p>CHIPS</p>	<p>Moderately to slightly weathered rock</p>	<p>Feldspathic schist - locally interlayered with 1/4" quartzite beds</p>
<p>150'</p> <p>Chips to .6' pieces</p>	<p>CHIPS</p>	<p>Rock become fairly fresh Rock is fairly fresh, minor rust on partings</p>	<p>Feldspathic schist, light grey, fine grained.</p>
<p>160'</p>			<p>160' Bottom of Hole</p>

PROJECT SEABROOK STATION

HOLE LOCATION

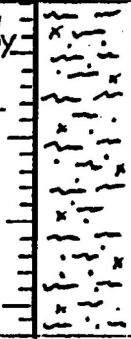
ELEVATION

BEARING

INCLINATION

DEPTH 67.0'

Logged By: J. R. Rand 7/10/72

0'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
10'				
20'				
30'				
40'				
50'	Rock Broken @ Chips to .3' pieces	OCCASIONALLY VUGGY	Rock is slightly weathered, discolored throughout, minor staining on joints and partings	47' Top of Rock
60'				Metasedimentary Rock feldspathic (quartzitic?) schist. Foliation wavy, variable. Light grey, fine-grained - rock breaks both on foliation and across core.
70'				7' Bottom of Hole

Foliation Dip

47' Top of Rock

7' Bottom of Hole

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING

INCLINATION

DEPTH 1000 ft

Logged By: J. R. Rand 7/11/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
CHIPS TO .4' pieces throughout	Rock is moderately to severely weathered throughout, bleached to light tannish grey. soft, crumbly No appreciable rusty staining		<p>34' Top of Rock</p> <p>Predominantly metasediment. Quartzitic to feldspathic schist, fine-grained (bleached due to weathering), locally interlayered with bleached decomposed coarse-grained diorite(?)</p>
Breaks @ chips to .5' pieces throughout	Rock is moderately weathered, breaks on and across foliation. No rust, but dull powdery stain on joints.		<p>TRANSITIONAL (INTRUSIVE) CONTACT</p> <p>Diorite, coarse-grained porphyritic Bleached to light tannish grey, locally layered,</p> <p>Gradational into feldspathic, quartzitic schist, light-grey fine to medium fine grained</p>
Breaks @ chips to .6' pieces	Rock appears slightly weathered. Some bleaching of feldspars, very minor rust on parting		<p>Metasediment - feldspathic schist, fairly fine-grained, evenly foliated. light to medium grey micas locally discolored to tan brown</p>
			100' Bottom of Hole

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING INCLINATION

DEPTH 150.0'

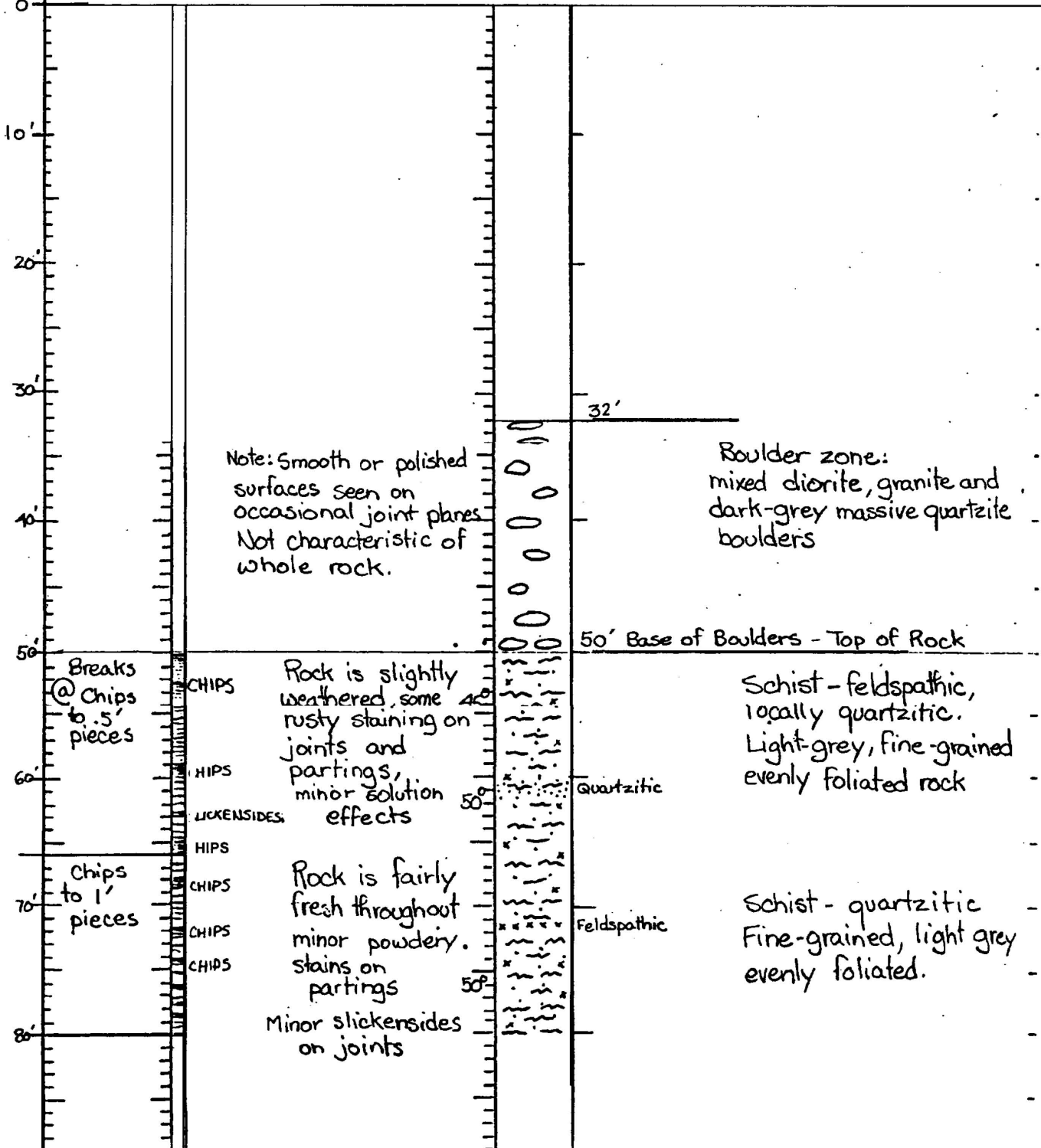
Logged By: J. R. Rand 7/11/72 7/12/72

CONDITION OF CORE

DIP

GRAPHIC LOG

DESCRIPTIVE NOTES



PROJECT SEABROOK STATION

DDH B-21

PAGE 2 of 2

HOLE LOCATION

ELEVATION

BEARING

INCLINATION

DEPTH 150.0'

Logged By: J. R. Rand 7/12/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
70'			
80' Breaks @ Chips to .2' pieces throughout	55°	Rock is fairly fresh but poor drilling — Parts on both joints and partings Local minor rust staining	Schist, feldspathic as below
90'			
100' Breaks @ Chips to .6' pieces throughout	55°	Rock is fairly fresh throughout locally subject to rusty staining on joints and partings	Schist, feldspathic, may be quartzitic locally. Fine-grained, light grey Evenly foliated
110'			
120' Breaks @ Chips to .8' pieces	45°	Rock is fairly fresh throughout, subject to light staining on joints and partings	Schist, feldspathic, light grey, fine grained. Local feldspar stringers
130' STAINED SLICKENSIDES	50°	Some joints show slickensides covered with powder coating	Rock is evenly foliated Quartzitic/Feldspathic
140' Breaks @ Chips to .6' pieces Chips to .8' pieces	50°	Rock is fresh, minor staining on joints, breaks on both joints and partings	Feldspathic schist, light-medium-grey, fine grained, Evenly foliated rock
150'	45°	Rock is fairly fresh through out.	
Notes some minor polishing on joints — not characteristically fault slickensides			150' Bottom of Hole

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING

INCLINATION

DEPTH 176.0'

Logged By: J.R.R and 7/12/72

40'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
50'				
50.2'				
60'				Boulder zone: mixed diorite, diabase and grey massive quartzite boulders. Not much weathering
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				
60'				

50.2'

Boulder zone:
mixed diorite, diabase
and grey massive quartzite
boulders. Not much weathering

67'

76' Top of Rock

Breaks @ chips to .5' pieces

CHIPS
MODERATE WEATHERING
CHIPS
CHIPS
VUGS
CHIPS

Rock is slightly weathered, minor discoloration, local rusty staining and solution effects on joints and partings

50'
45'

Schist, feldspathic and quartzitic. Light-grey fine-grained, evenly foliated

Chips to 8' pieces

CHIPS

Rock is fairly fresh. Minor staining and minor local feldspar discoloration

57'
55'

FELDSPATHIC
FELDSPATHIC

Schist, feldspathic and quartzitic. Light-grey, fine-grained, evenly foliated

Chips to .7' pieces

4 CHIPS
CHIPS

PROJECT SEABROOK STATION

HOLE LOCATION ELEVATION

BEARING INCLINATION DEPTH 176.0'

Logged By: J. R. Rand

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
100' CHIPS to .5' pieces CHIPS CHIPS CHIPS CHIPS, VUGGY CHIPS	55° 58°		ELDSPATHIC ELDSPATHIC Schist - feldspathic, Quartzitic, light-grey, fine-grained, evenly foliated (NO MOVEMENT ON DIABASE CONTACTS) INTRUSIVE CONTACT. NO DISPLACEMENT EVIDENCE
Breaks @ Chips to .5' pieces CHIPS, BLEACHED CHIPS'	58°		Diabase - fine grained, sub-black, phenocryst speckling ROCK IS BLEACHED (CHILLED ZONE?) TO TAN CONTACT DIPS 55° NORMAL TO SCHISTOCITY NO DISPLACEMENT EVIDENCE ON CONTACT
Breaks @ Chips to .4' pieces CHIPS CHIPS CHIPS	50° 45°		EG MATITE VENELET Schist - Quartzitic, somewhat feldspathic, fine-grained, medium light-grey. Evenly foliated
.1' to .6' pieces			Diabase - fine grained dark-grey to black. Speckled phenocrysts. 176' Bottom of Hole

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING INCLINATION

DEPTH 121.0'

Logged By: J. R. Rand ^{1/7/1}/_{27/1}

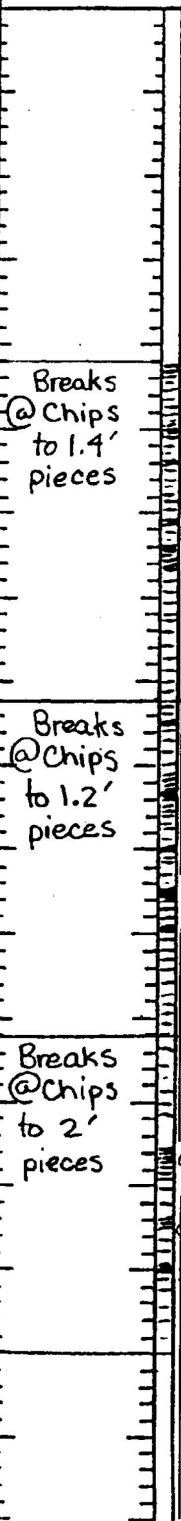
CONDITION OF CORE

DIP

GRAPHIC LOG

DESCRIPTIVE NOTES

0
10'
20'
30'
40'
50'
60'
70'
80'



Rock is moderately weathered throughout, locally severe weathering on joints: Rock fairly compact internally. High angle joints @ 1' to 4' intervals

Rock is moderately weathered throughout. Some feldspars bleached, discolored to tannish. Local highly weathered rusty zones

Rock is moderately weathered throughout. Feldspar veinlets discolored to tan. Some solution effects. Vugs



21' Top of Rock

Diorite, intermixed fine-grained, dark-grey massive and coarse-grained light grey

RESIDUALLY FINE GRAINED

Diorite, porphyritic, medium coarse-grained, medium dark-grey. Subject to narrow veining @ 6" to 1' intervals. Veins dip 55°-60°. All veins discolored tan by weathering. Rock is fairly compact, weathering not withstanding

Ditto as above

WELDED BRECCIA-TIGHT STRUCTURE WITH SURFACE WEATHERED EFFECTS

PROJECT SEABROOK STATION

HOLE LOCATION ELEVATION

BEARING INCLINATION DEPTH 121.0'

Logged By: J. R. Rand 7/11/72

70'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES	
80'	Breaks @ .3' to 1.5' pieces	RUSTY, WEATHERING	Rock is slightly to moderately weathered. Minor pittings; veinlets discolored to tan. Local rusty zones on joints		Intermixed fine-grained Dark-grey Diorite and light grey coarse-grained Diorite Fine-grained rock type predominates. Rock discolored a little by weathering.
100'	Breaks @ Chips to 1.5' pieces	CHIPS	Rock is slightly to moderately weathered. Minor pitting. Feldspar veinlets are discolored to tan. Rock not notably weak.		Intermixed fine- and coarse-grained Diorite. High angles veining at 6" to 1' intervals. Rock is discolored by weathering.
110'	Chips to 1.5' pieces	MODERATE WEATHERING, RUST MODERATE WEATHERING, RUST	Rock is slightly to moderately weathered through out. Feldspars discolored in veinlets. Local rusty zones on joints		(SLIGHT TO MODERATE WEATHERING - COMPACT)
120'	121' Bottom of Hole				
130'					

PROJECT SEABROOK STATION _____

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 23.0'

Logged By: J. R. Rand 7/11/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
Breaks @ chips to 2.5' pieces	CHIPS, RUSTY CHIPS, RUSTY CHIPS, RUSTY CHIPS, RUSTY	Rock is fresh subject to local rusty staining on joints. High angle joints @ 5' intervals	<p>3' Top of Rock</p> <p>FINE</p> <p>FINE</p> <p>FINE</p> <p>FINE</p> <p>FINE</p> <p>FINE</p> <p>Diorite - Fine-grained, dark-grey, intermixed with light-grey, coarse-grained granitic rock (Diorite?)</p>
			23' Bottom of Hole

PROJECT SEABROOK STATION _____

DDH B-28

PAGE | of |

HOLE LOCATION _____

ELEVATION _____

BEARING _____

INCLINATION _____

DEPTH 23.7'

Logged By: J. R. Rand 7/12/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
<p>0'</p> <p>Breaks @ Chips to .8' pieces</p> <p>SANDSEAM CHIPS, SOFT</p> <p>SAND SEAM</p> <p>CHIPS</p> <p>CHIPS</p> <p>10'</p> <p>20'</p> <p>30'</p>	<p>Rock is slightly to moderately weathered throughout. Some rock De-composition, and heavy rust on high angle joints.</p> <p>Note: Rock weathering and rust appears due to surface weathering. Between weathered zones rock is fairly fresh internally.</p>	<p>4' Top of Rock</p> <p>FINE</p> <p>DIABASE-(BOULDER?)</p> <p>Diorite - intermixed dark-grey, fine-grained and coarse grained, light grey. Rock is predominantly coarse-grained type.</p> <p>FINE</p> <p>23.7' Bottom of Hole</p>	

PROJECT SEABROOK STATION _____

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 27.0'

Logged By: J. R. Rand 7/10/72

0'	CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
				7' Top of Rock
10'	Breaks @ .1' to 2' pieces	50° joint 30° joint	<p style="text-align: center;">FOLIATION ↓</p>	Diorite, medium grey, medium coarse-grained, locally with foliated grey granite zones.
20'	1' to 1.5' pieces	30° joint	<p>Rock is fresh, only local rusty staining on joints. Mostly low angle (30°) joints</p> <p>Rock is fresh. Biotite may be slightly weathered</p>	Porphyritic Diorite, Biotite Spotting
30'				27' Bottom of Hole

PROJECT SEABROOK STATION DDH 8-31 PAGE \ of 1

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 23.0'

Logged By: J. R. Rand 7/10/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
Breaks @ Chips to 1' pieces	CHIPS	Rock is slightly weathered, subject to brown iron staining on joints @ 6" to 1' intervals	3' Top of Rock COARSE COARSE COARSE COARSE COARSE Diorite - intermixed dark-grey fine-grained and light-grey coarse-grained types. Coarser-grained rock tends to weather more than Fine-grained
.1' to .8' pieces	RUSTY VERTICAL JOINT	Rock is fresh but rusty staining on joints to bottom. Biotite is slightly weathered to show rusty brown streak No slickensides	FINE-GRAINED DIORITE 23' Bottom OF Rock Porphyritic Diorite

PROJECT SEABROOK STATION

HOLE LOCATION ELEVATION

BEARING INCLINATION DEPTH 41.6'

Logged By: J. R. Rand 7/10/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
<p>0'</p> <p>Rock Broken @ chips to 1' pieces</p> <p>CHIPS</p> <p>CHIPS</p> <p>CHIPS</p> <p>CHIPS</p> <p>30'</p> <p>Breaks @ .2' to 1' intervals</p> <p>25° joint</p> <p>50° joint</p> <p>60° joint (minor pyrite)</p> <p>MINOR RUST</p> <p>40'</p> <p>.2' to 1.2' intervals</p> <p>50'</p>	<p>Rock is fresh internally. Iron and manganese staining on closely spaced joints</p> <p>Rock is fresh Minor rusty staining locally on joints. Joints not slickensided</p>		<p>2.5' Top of Rock</p> <p>Diorite - fine-grained, medium-dark grey Occasional small white phenocrysts</p> <p>Generally fine-grained, medium-light grey Diorite with local zones of porphyritic Diorite</p> <p>DRUSY QUARTZ AND CALCITE LINED VUG</p> <p>41.6' Bottom of Hole</p>

PROJECT SEABROOK STATION DDH 8-37 PAGE | of |

HOLE LOCATION _____ ELEVATION _____

BEARING _____ INCLINATION _____ DEPTH 44.0'

Logged By: J. R. Rand 7/10/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
0'			6' Top of Rock
10'	70° joint		<p>COARSE Diorite - medium fine-grained medium dark-grey, massive</p>
20'	65° joint		<p>Medium fine grained medium grey massive Diorite</p>
30'	65° joint		<p>High angle joints @ about 1' intervals</p>
40'			<p>PEGMATITE WITH GARNET, TOURMALINE(?) AND FINE SULPHIDE STRINGERS</p>
44'			44' Bottom of Hole

PROJECT SEABROOK STATION

HOLE LOCATION

ELEVATION

BEARING INCLINATION

DEPTH 152.5'

Logged By: J. R. Rand 7/10/72

CONDITION OF CORE	DIP	GRAPHIC LOG	DESCRIPTIVE NOTES
0'			2.3' Top of Rock
Chips to .6' pieces			Fine Grained medium grey diorite
10'		Rock is mostly fresh, with local moderately weathered zones adjacent to joints	Coarse grained Diorite, light grey with rare patches of fine-grained grey diorite
2' pieces		Rock is fresh except as noted	
20'		Minor local rust on joints	Coarse grained rock appears a little later than the fine-grained rock
Broken in Chips to 3' pieces			
30'			
Rock Breaks @ .1' to 1.5' intervals		Rock is fresh Minor rust locally on joints	DIABASE CUTS DIORITE INTRUSIVE CONTACT CHILLED
50'			Diabase, Dark grey, fine-grained with dark green phenocryst speckling and occasional patches of epidote
Breaks @ Chips to 1.2' pieces		Rock is fresh Very little staining on joints	DIORITE CHILLED
60'			Diorite - mixed coarse and fine grained rock
70'			Diabase Dike
80'			Diorite, Mixed coarse and fine grained rocks