



GEOLOGIST'S DRILLING LOG

Page # 1 of 1

Project Scientist P. BerendsonProject Basement DR-1Well Geologist P. BerendsonDriller 7/10Section 5Date June 25, 1993

Legal Description		Hole ID# (from drawing)	Site drawing
Bit size/type	core size		
Elev. top of hole	Total hole depth	Total core footage	
Coring Intervals			

NE SW NW sec. 1 T 4S, R 9E

Development specifics (grout, gravel, hole plug, backfill, decontamination, etc.)

geophysical logs

Elevation	Depth	Legend	Materials Class. description	% core recovery	box / sample #	remarks (drilling time, water loss, depth of weathering, etc., if significant.)
			I made the rig on Thursday, June 20, 1993 and set up the drilled 146' of fill on Monday, June 21 in the morning. I was kind to set casing in the afternoon, but the bit did not lock properly. Consequently the pipe got plugged 2' of shale, black sand, 1st full of crinoids. After unplugging lost the string in the hole, had to fish it out.			
			Monday, June 22. Pulled the casing out of the hole and tried to get back in. Measured the hole with a depth at 150' 4". Got back in and put get around the casing. Had water and get ready to core.			
			Started coring at 4:50 PM. Cored 5' 7" at 4:00 PM. Recovered 5' 7" T.D. 156'			
	150'		Gray siltst + sh Crinoidal 1st. Silty near top & bottom			
			Greenish gray siltst and shale changing at 154' 2" to red siltst and shale below, with minor gray intercalations			
	160'		Red siltst as above with minor gray more sandy than irregular beds, down to 159' 6". Below the rock becomes a dk gray siltst + sh. (Joe dropped the lower part (162' 3" - 164' 6") of the core, so there may be an inversion. cored 10', but only recovered 2' 7" lost rest in the hole depth. DK gray shale			
	170'		Recovered ~ 5' of md. dk gray siltst + sh. Should be at 173' 7" Measured depth 181' 4"			
	180'		Probably lost shale in between 173' 7" and 181' 4"			



GEOLOGISTS DRILLING LOG

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Project Scientist P. Berendsen

Project Basement DR-1

Well Geologist P. Berendsen

Driller J. Anderson / D. Dettmann

Section G.I.

Date June 24, 93

Legal Description		Hole ID# (from drawing)	Site drawing
Bit size/type	Core size		
Elev. top of hole	Total hole depth	Total core footage	
Coring Intervals			

Development specifics (grout, gravel, hole plug, backfill, decontamination, etc.)	geophysical logs
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Elevation	Depth	Legend	Materials Class. description	% core recovery	box / sample #	remarks (drilling time, water loss, depth of weathering, etc., if significant.)
core 5			Upper 2' black sh. followed by Lt gray foss. lst. (10") lower contact very gradational to dk gray, almost rocky sh. and dk gray sh			cored to 185'5" recovered 4'1"
core 6	190		Gray sh. to 188'2", followed by 11" of lst, followed by 1'7" of calc. sh., very punky looking. Next 8" of shaly lst. 2'8" of red sltst + shaly lst, changing to 1'10" of gray lst, partially broken up and mixed with green clay. At 195'5" it changes to a gray. foss. lst to a depth of 198'7". Down to 200' gray sh. with brown oxidized sandy lenses changing to gray sh. with sandy lenses and dk gray shale at 202'. At ~207' the shale has large (up to ~1/2") pyrite concretions in it for about 1'6". The shale becomes has silty and v.f. sandy beds in it below 212'6"			cored to 195'7" measured depth 195'6" lost 2" at the top in sh.
core 7	200					cored to 205'7" recovered 9'10" lost lower 2' in shale
core 8	210					
core 9	220		v.f. gr sandy or silty rock with minor irregular dk gray shaly laminae down to 223'4", Below that dark gray shale			
core 10	230		Gray sh. to 234'4" after which it becomes fossiliferous and gradually more calc. Becomes lst at 235'3"			
core 11	240		Down to 240'4' lst. One dk shaly interval (5") at 238'11"			cored to 225'6" drilled 9'6" Recovered 8'10"

Well Geologist P. BerendsenProject Basement DR-1Section G.I.Driller J. Anderson / D. DeltmanDate June 24, 93

Legal Description		Hole ID# (from drawing)	Site drawing
Bit size/type	core size		
Elev. top of hole	Total hole depth	Total core footage	
Coring Intervals			

Development specifics (grout, gravel, hole plug, backfill, decontamination, etc.)	geophysical logs
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Elevation	Depth	Legend	Materials Class. description	% core recovery	box / sample #	remarks (drilling time, water loss, depth of weathering, etc., if significant.)
CORE 11			Below 240' 4" Dk gray finely laminated black sh. sharp contact with lst. above upper shale down to 240' 3" gradual change to lst 249' 10". lst is foss. and has some dk. shaly intervals. 4" of dk gray coaly sh. from 249' 11" to 250' 3". Gray foss. lst, shaly in part to 252' 3", becoming gradually darker sh. to 254' 6"			core 11. Drilled 10' Recovered 9'
CORE 12	250		Then 1-2" of lst. followed by ~2' of dark sh. and changing to gray shaly foss. lst. At 267' 8" there is a 1' 2" interval of gray calc. sh. Back into shaly lst. at 272' 6". Followed by dk gray shale to 274' 8"			core 12. Drilled 10'. core got stuck in top of barrel because we picked up part of core 11. loose 9" Bottom 254' 9"
CORE 13	260		Back into shaly foss. lst. Sharp contact with black sh. at 277' to 278' 8" changing to a punky foss. shaly lst. At 282' 4" it becomes a greenish-gray sh. with lst knots in the lower 1'. changes back to lst (shaly in part) at 284' 4" to 286' 7"			core 13. Drilled 3' Recovered 1' 7"
CORE 15	270		Here the rock is a mixture of sh. and lst to ~289' where calc. sh and shaly lst is partially oxidized to 290' 2"			core 14' Drilled 1' Recover 1' 11" lost 6" in the last two core Bottom of hole 258'
CORE 16	280		Below that we have lst. and limy sh. down to 294', then the shale turns slowly darker and becomes a good black fissile shale down to about 310' 2". Between 307' 8" and 308' 2" large pyrite concretions, below it the rock is more limy and very fossiliferous			core 15. 9' Rec. 9'
CORE 17	290		Between 308' 6" and 309' 1" the shale is coaly in places			core 16 - 18 good recovery at 10' each.
CORE 18	300					core 19 from 297' - 307' 10' rec.



GEOLOGISTS DRILLING LOG

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Project Scientist P. BerendsenProject Basement DR-1Well Geologist P. BerendsenDriller J. Anderson / D. DettmanSection G.I.Date June 25, '93

Legal Description		Hole ID# (from drawing)	Site drawing
Bit size/type	core size		
Elev. top of hole	Total hole depth	Total core footage	
Coring Intervals			

Development specifics (grout, gravel, hole plug, backfill, decontamination, etc.)	geophysical logs
---	------------------

Elevation	Depth	Legend	Materials Class. description	% core recovery	box / sample #	remarks (drilling time, water loss, depth of weathering, etc., if significant.)
			Below 310' 2" the shale is more greenish-gray and lighter colored. down to 319' 9" Here the shale turns mostly red, and is disturbed. At 322' 6" Lt gray 1st knots appear in the rock down to 325' 8". However at ~ 323' 6" the shale becomes less oxidized and more brownish and green-gray. At 325' 8" becomes a greenish-gray sh and less disturbed. Some disturbed bedding appears towards the bottom, persisting to ~ 327' 8". Here the shale becomes intermixed with lighter colored sltsh and unif. gr. ss. in a fluvial-like setting. Rock becomes mostly a black sh. below ~ 335'. At 336' 7" the sh. is m. gray colored and becomes black and laminated at 337'. Gradual change to 1st. at 344'. 1st. is crystalline and in places very porous persists to 349' 9". Several dark black sh. intervals up to a few inches are in the 1st. The 1st. changes gradually to a black shale with minor lighter colored silty laminae and patches that are discontinuous. From 357' - 367' stay in the same shale. Some clasts (up to 1/2") of 1st. at ~ 359' 6" - 359' 10". and some thin 1st. laminae at 366' 10". Some more small limy intervals in core 26. But rock is a dk gray sh. with minor silty, lighter colored laminae.			
core 19						
core 20	316					core 20, cored 10' Rec. 10'
core 21	326					core 21 Rec. 10'
core 22	330					core 22 Rec. 10'
core 23	340					core 23 Rec. 10'
core 24	350					core 24 Rec. 10'
	360					



Bit size/type	Core size	
	Total hole depth	Total core footage
Coring Intervals		

Development: specifics (grout, gravel, hole plug, backfill, decontamination, etc.)		
Materials Class. description		

Elevation	Depth	Legend	% core recovery	box / sample #	remarks (drilling time, water loss, depth of weathering, etc., if significant.)
core 25					core 25, Rec. 10'
core 26	370				core 26, Rec. 10'
core 27	380				core 27 - Rec. 9' 4"
core 28	390				core 28 Rec. 10'
core 29	400				core 29 Drilled 10' Rec. 8' 8"
core 30	410				core 30 Drilled 8' 7" Rec. 10' T.D. 415' 10" Recover 1' 3" from previous core



Project Scientist P. Berendsen
 Well Geologist P. Berendsen
 Section G.I.

Page # 2
 Project Basement DR-1
 Driller J. Anderson / D. Dettmann
 Date June 25, '93

Legal Description		Hole ID# (from drawing)	Site drawing
Bit size/type	Core size		
Elev. top of hole	Total hole depth	Total core footage	
Coring Intervals			
Development specifics (grout, gravel, hole plug, backfill, decontamination, etc.)			geophysical logs

Elevation	Depth	Legend	Materials Class. description	% core recovery	box / sample #	remarks (drilling time, water loss, depth of weathering, etc., if significant.)
core 31			gray sh. turns black at 426'10" and stays black to 430'9" It is foss. and very foss. near the bottom. Also has large marcasite nodules and stringers, some vertical. At 430'9" the rock abruptly changes to a very foss. silty lst. in places quite dark with sh. At 431'11" the rock is a laminated carb sh not siltstone rock. It shows some x-bedding. The laminar are wavy and discontinuous.			core 31. Drilled 10' Rec. 10' T.D. 425'10"
core 32	430					core 32' Rec. 10' T.D. 435'10"
core 33	440		The rock is a laminated siltst + dk gray sh. The number of lighter colored silty laminae decrease below 437' and the rock slowly changes to a dk gray to black sh.			core 33 Drilled 10' Rec. 9'10" 445'8"
core 34	458		shale as above to 454'3" Below it turns into a lt-dk gray very foss. lst.			core 34 Drilled 10'1" Rec. 10' T.D. 455'8"
core 35			core 35. lst as above			core 35 Drilled 1'3" Rec. 1'5" probably a couple of inches that was left T.D. 457'
core 36	460		core 36. lst. as above down to 458', becomes a shale down to 460'1" First 5" of sh. very dark, then it becomes lighter gray-green and again turning very black at 458'2" Below foss. lst becoming a little more silty towards the bottom			core 36. Rec. 10' 467"
core 37	470		core 37. First 6" are still silty below that good foss. lst with minor black silty intervals lost gray sh. near the bottom ~6"			core 37. Drilled 10' Rec. 9'6"
	480					477'



GEOLOGIST'S DRILLING LOG

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Project Scientist P. BerendsenProject Basement PR-1Well Geologist P. BerendsenDriller J. Andersen / D. DettmannSection G. I.Date June 26 1993

Legal Description		Hole ID# (from drawing)	Site drawing
Bit size/type	core size		
Elev. top of hole	Total hole depth	Total core footage	
Coring Intervals			
Development specifics (grout, gravel, hole plug, backfill, decontamination, etc.)			geophysical logs

Elevation	Depth	Legend	Materials Class. description	% core recovery	box / sample #	remarks (drilling time, water loss, depth of weathering, etc., if significant.)
core 38			Core 38 First 4" gray sh; then 1st. down to 484' From ~ 480'-483' 1st. very f-gr. dense and not foss.			core 38' Drilled 7' Rec. 7' T.D. 484'
core 39			At 484' rock changes rapidly to a black coaly sh.			core 39. Drilled 3' Rec. 11" last core. may be
core 40	490		core 39. Black coaly sh. core 40 Black coaly sh ~ 2'6" changing to a m. gray sh which has increasingly more silty laminae towards the bottom.			core 40 Drilled 5' rec. 6' 10"
core 41			Core 41 Gray sh with laminae down to 494' 1" rapid change to oolitic 1st. (probably Irvine Creek)			core 41 Drilled 5' Rec. 5'
core 42	500		Core 42. First 3" oolitic. Below the 1st becomes dense, stylolitic and less foss. Amount of fossils increases in the lower 5' and the rock is darker brown colored as opposed to lt. gray above			core 42 Drilled 10' Rec. 10' T.D. 507'
core 43	510		Core 43. Same 1st. down to 511' 8" Sharp change to dk gray and very black sh. (Heebner?) sh down to 514' 1". Abrupt change to lt gray dense 1st. Some fusulinids and other fossils towards the bottom. Last 2" dk calc. sh.			core 43. Drilled 10' Rec. 10' 2"
core 44	520		core 44. Rock is a calc. sh., dk gray and foss. throughout the first 1' 6". Changes gradually to a silty greenish-gray f-gr.-dense 1st at 519' 8" Back into a gray to greenish gray calc. sh. at 522' 4" In the lower 8" 1st. clots occur in the shale. From 526' 2" down the rock is a dense dk. gray 1st with numerous stringers and small clots of greenish-gray sh.			core 44 Drilled 9' 10" Rec. 9' 10" TD 527'
core 45	530		core 45. 1st. most of it as above. Some dk. gray sh. intervals and a clean 1st in the middle. June 27, 1993 lots of trouble with a piece of core stuck in the pipe. Could not duck the core barrel evidently.			core 45. Drilled 9' 7" Rec. 3' June 27 '93
core 46			core 46 1' of 1st. below gray sh 1st. to 536' 7"			core 46. Drilled 1' Rec. 6" T.D. 536' 11"
core 47	540		Core 47. Broken-up sh. first foot, after that m.-dk gray sh			core 47. Drilled 9' 8" Rec. 9' 6" T.D. 546' 9"

Project Scientist P. BerendsenProject Basement DR-1Well Geologist P. BerendsenDriller J. Anderson / D. DettmannSection G. I.Date June 27, 93

Legal Description		Hole ID# (from drawing)	Site drawing
Bit size/type	core size		
Elev. top of hole	Total hole depth	Total core footage	
Coring intervals			

Development specifics (grout, gravel, hole plug, backfill, decontamination, etc.)	geophysical logs
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Elevation	Depth	Legend	Materials Class. description	% core recovery	box / sample #	remarks (drilling time, water loss, depth of weathering, etc., if significant.)
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core 46

core 47

core 48

core 49

core 50

core 51

core 52

600

core 47. Dk gray sh. changing to foss silty
lst at 546'5". Very dark limy sh, foss, from
548'4" to 549'1". Gray foss. lst to 551'9"
Gray sh. to 553'2" Dirty silty lst to 553'11"
Followed by siltst

core 48. Limy greenish-gray siltst down to
557'4". Clean lt gray dense lst. to 558'5" chan-
ging to foss. greenish gray lst with one dk gray
silty layer. Change to dk gray and blk sh. at 564'
core 49. Black almost coaly sh

core 50' Dk black sh. to 567'3"
Followed by dense lt gray lst. to 570'11", with
one darker silty streak at 568'2" (2" thick)

Turns very foss. and dk gray mixed with lt
gray lst becomes a dk gray to black foss. calc
siltst. at 571'8" - 572'5". Sharp change to dense
lt gray lst to 574'5", then becomes more silty
to 574'11". Becomes a curious mixture (don't understand the rock)
of lst + greenish-gray siltst to 576'8", and greenish-gray
siltst. below to 577'9". Turns to dense lt gray lst
to 579'6". Then becomes foss. and more silty to
583'6". Turns to a black sh to 586'1" and then
again a foss. lst

core 52 lst. dk silty full of fusulinids
down to 589'4". Turns into a black foss. sl
above to 589'10". Sharp change to a
Pt. gray, partially sugary, containing fusulinids
and stylolites

core 53. lst. turn into a dense ~~red~~ lt gray
lst. at 597 to 602'5" except for two minor
darker intervals. Turns into a fusulinids-rich
more variable gray lst. with a few black
lst. intervals

core 47 Drilled 8'11"
Rec. 10'1" TD 555'8"
Recovered 1'4" from
previous run

core 48 Rec. 10'
TD 565'8"

core 49 Rec 1'2"
566'9"

core 50'
TD ~~566'9"~~
576'9"

core 51
Drilled 9'6"
Rec. 9'9"
TD ~~586'6"~~ 586'6"

core 52 Drilled 10'
Rec 10'2"
T.D 596'8"

core 53 Rec. 10'



GEOLOGIST'S DRILLING LOG

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Project Scientist P. Berendsen

Project Basement DR-1

Well Geologist P. Berendsen

Driller J. Anderson / D. DeHmann

Section G-1

Date June 27, 1993

Legal Description		Hole ID# (from drawing)		Site drawing		
Bit size/type	core size					
Elev. top of hole	Total hole depth	Total core footage				
Coring intervals						
Development specifics (grout, gravel, hole plug, backfill, decontamination, etc.)		geophysical logs				
Elevation	Depth	Legend	Material Class, description	% core recovery	box / sample #	remarks (drilling time, water loss, depth of weathering, etc., if significant)
609.53			core 54. Rock fusulinid-rich to 609'S, then a 2" black shaly layer followed by less fossil dense, stylolitic 1st. Stylolites filled with black shaly material			core 54 Drilled 10' Rec. 10' 2" T.D. 616' 10"
609.54			core 55. stylolitic 1st as above lost the rest of the core, may be washed Retrieved 6' 2" of 1st as above			core 55 Drilled 10' Rec. 3' 1" June 28. Went back over the core and retrieved 6' 2"
609.55			Casing started leaking. Tried to add cement, but it broke about 4' below the surface. Tried to retrieve it with a fishing tool but couldn't get it down. Tried to drill around without success. Finally abandoned the hole. Moved the hole 12' feet to the SW and started again. Set casing to about 200' and started coring it. 205' shrecurs very drilling needs quite slow. Saw a duplicate core and try to pick up where we left before. The off-set hole is about 2' higher.			
630			Aug 10. Core 205' - 352'			
640			Aug 11. Core 352' - 520'			
650			Aug 12. Core from ~ 520' - 600', but ran into fractures near the bottom of the hole. Tool bit retrieving core. Left at 3:00 P.M. for Levee area. CP 9 meeting.			
660			Aug 13. Retrieved in morning. Pulled all the rods out at ~ 1100' P.M. Core stuck in the rods. Back to where we were before at ~ 500' P.M.			

Project Scientist P. B. BoudreauProject 3Section DB-1Well Geologist P. B. BoudreauDriller 3Section DB-1Section DB-1Date August 15, 1963Section DB-1

Legal Description		Hole ID# (from drawing)		Site drawing	
Bit size/type	core size		Total hole depth	Total core footage	
Elev. top of hole					
Coring Intervals					
Development specifics (grout, gravel, hole plug, backfill, decontamination, etc.)					
geophysical logs					
Elevation	Depth	Legend	Materials Class. description	% core recovery	box / sample #
				remarks (drilling time, water loss, depth of weathering, etc., if significant.)	

Try to pick up core where we left off in start describing again at 633' feet. In the duplicate core we lost a 4'-5' bit about 617'-619' Bottom of the duplicate core is at 633' 10" core 56 Rock is a dense, sticky, like limestone or dol. flat very fossiliferous like the very fossiliferous rich red shale. Fusulinids may be recognized like the whole rock.

core 57 upper 2' 1st is above. It slowly changes to a more fine clay 1st and greenish gray sh. clay to 642' 11" Turns into dark gray and black shale, early near the bottom. Appropriate to 1st at 645' 1st is dense and slightly less.

core 58 upper 3' 1st is above, then 1st alternating with clay gray sh. Both 1st and sh. fossil. containing nodules. Rock changes to a more red gray-green shale. Sh. has some small pyrite and pyrite concretions. Also permeable fracture at steep angles to horizontal.

core 59 Drilled 9' 1' Recovered 10' 1' Down to 666' 8" Core 59 is a clay shale. 1st is very dense. Depth 675' 4"

core 60 First 2' shale is above, very sharp contact with red oxidized shale down to 661" In the lower part are partially oxidized 1st clasts. Rock changes rapidly to a 1st becoming in the upper 2' filled with green clay. Followed by a 1st of dense 1st gray 1st thin changes to a fossiliferous rich partially greenish shale. 1st is a clay shale.

core 61 Partly fossiliferous, partially clay, 1st dense, clay changes to a green, and partially oxidized clay-green shale. 1st is a soft clay shale - shale.

core 62



Project Scientist

P. B. Anderson

Project

B. B. Anderson / P. B. Anderson

Well Geologist

P. B. Anderson

Driller

J. Anderson / P. B. Anderson

Section

S. I.

Date

Aug. 13, 1993

Legal Description

Hole ID# (from drawing)

Site drawing

Core size		Total core footage		Development specifics (grout, gravel, hole plug, backfill, decontamination, etc.)		geophysical logs	
Bit size/type	Elev. top of hole	Total hole depth	Total core footage	Materials Class. description	% core recovery	box / sample #	remarks (drilling time, water loss, depth of weathering, etc., if significant.)
Coring Intervals				Legend			
Core 70							Core 70. Drilled 4'7" Rec. 5'1" Depth 747'5" Measured depth 746'11" Core 71. Drilled 10' Rec. 10'2" Depth 757'7"
Core 72							Core 72. Drilled 10' Rec. 10'1" Depth 767'5" Measured depth 767'0"
Core 73							Core 73. Drilled 10' Rec. 10' Depth 777'8"
Core 74							Aug. 15. Sunday Core 74. Drilled 2' Rec. Depth 787'2"
Core 75							Core 75. Drilled 2' Rec. Depth 797'8"
Core 76							Core 76. Drilled and rec. Depth 807'8"
Core 77							Core 77. Drilled Rec. 1'2" Down to 803'10" Last core made mud



GEOLOGISTS DRILLING LOG

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Project Scientist P. Petersen

Project Basement DB-1

Well Geologist P. Petersen

Driller J. Anderson / P. Petersen

Section II

Date Aug 18, 1993

Legal Description		Hole ID# (from drawing)		Site drawing	
Bit size/type	core size	Total hole depth		Total core footage	
Elev. top of hole		Total hole depth		Total core footage	
Coring Intervals					
Development specifics (grout, gravel, hole plug, backfill, decontamination, etc)					
Elevation	Depth	Legend	Materials Class. description	% core recovery	box / sample #
core 78			Core 78 Dense, recrystallized with 2 argillaceous intervals ~2" each. Rock hard and contains open fractures lined with calcite crystals.		Core 78 Rec 3'2" Depth 8'0"
core 79			Core 79 First 2" bit down to 5'12" mixed bit sandish grey sh. to 5'14" then small bit clasts and gradually bigger clasts to 5'17" where the rock becomes fractured. The whole sequence is heavily fractured.		Core 79 Rec 4'11" Depth 8'0"
core 80			Core 80 1st clean, porous to 5'19" from there down to 5'20" fair amount of irregularly distributed green-grey sh. High ls. thin sh. breaks usually at stylolites. Whole rock heavily fractured at high angles. Pyrite mineralization at 5'19" on fracture surface.		Core 80 Drilled 7'9" Rec 7'8" Depth 8'2'7"
core 81			Core 81 1st as above		Core 81 Rec 3'1" Depth 8'2'7"
core 82			Core 82 1st as above Pyrite as big crystals common on vertical fracture surfaces.		Core 82 Drilled 8'2'8" Depth 8'34"
core 83			Core 83 1st as above One more 2" shaly interval		Core 83 Drilled 8'2'8" Depth 8'34"
core 84			Core 84 4" bit more clayey to bottom. May have lost some sh. covered part is argillaceous. Below 1st bit turning to very green sh. the last few inches are greenish grey then mixed grey ls. with cl. fossils sh.		Core 84 Rec 1'2" Depth 8'34"
core 85			Core 85 Got core stick in the casing. Aug 16 tried to get it loose with success. RHT pulled out casing recovered 3'8" core of which 2'5" total sample recovered. They are probably 1st clasts and some green sh. Red is mostly red sh. with some green argillaceous streaks.		Core 85 Drilled 8'34" Depth 8'34"
core 86			Core 86 1st stylolitic heavily fractured, some argillaceous streaks.		Core 86 Drilled 8'34" Depth 8'34"
core 87			Core 87 1st as above		Core 87 Drilled 8'34" Depth 8'34"
core 88			Core 88 First 4'5" 1st as above more argillaceous towards the bottom and slightly red, followed by 5' to 6'6" by grey-greenish down to 6'6" stylolitic, fractured sh. with argillaceous streaks, towards the bottom turns to grey sh. with 1st clasts in the upper 1' in grey sh. down to 6'6"6", slightly more green from 6'5'5" to 6'5'9". Bottom 1st fractured, stylolitic to 6'6'9"		Core 88 Drilled 8'34" Depth 8'34"

Remarks (drilling limo, water loss, depth of weathering, etc., if significant.)	
Core 78 Rec 3'2" Depth 8'0"	
Core 79 Rec 4'11" Depth 8'0"	
Core 80 Drilled 7'9" Rec 7'8" Depth 8'2'7"	
Core 81 Rec 3'1" Depth 8'2'7"	
Core 82 Drilled 8'2'8" Depth 8'34"	
Core 83 Drilled 8'2'8" Depth 8'34"	
Core 84 Rec 1'2" Depth 8'34"	
Core 85 Drilled 8'34" Depth 8'34"	
Core 86 Drilled 8'34" Depth 8'34"	
Core 87 Drilled 8'34" Depth 8'34"	
Core 88 Drilled 8'34" Depth 8'34"	