

Forestry Suppliers, Inc.

1-800-647-5368

49354 Level Book

SCHRAMM
BOB CLEVELAND
Log # 1

MID FL MINING
RAINBOW LAKES VFD

Broward Co / 656

TABLE OF CONTENTS

WELL NAME/NUMBER	PAGE #
Mid Florida Mining	4
Rainbow Lake Estates	23
Deerfield Beach Broward	30

CORING Export

JEAN ~~MAPEL~~ MAPEL

Reno Nevada

775-742-6294

Important
PHONE #

$$\begin{array}{r} 655 \\ - 590 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 5 \\ 855 \\ - 590 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 478 \\ - 220 \\ \hline 698 \end{array}$$

49.16

$$\begin{array}{r} 2200 \\ - 1200 \\ \hline 1000 \\ - 280 \\ \hline 720 \\ - 520 \\ \hline 200 \end{array}$$

Mid Florida Mining Core

LAT $29^{\circ} 23.48'$

CON $82^{\circ} 15.626'$

AUG 514 READINGS
ACCURACY 10'

"Note"

Light gray QUARTZ Sand
is The meaning on The first 8 pages
of Description of This log book. My
mistake on my logging in The Detail
where I was ~~putting~~ writing light gray
sand and as of The same goes for
medium and Dark Gray Sands and Clays
Corrections starting on page 8 of
my logging Descriptions

762

1-7-09 Mid Florida Mining Co.

N $29^{\circ} 23.484'$ $183^{\circ} - 185^{\circ}$ Approx.

1-8-09 Start Drilling + Core Sampling

1-8-09 $8\frac{3}{4}'$ Dark to medium Gray Clay
w/ some oxidized zones (pulled) Inner

Barrel + $3\frac{1}{2}'$ / set $10'$ of $4"$ casing for

Surface + Install Diverter Tee to run
pits / $8\frac{3}{4}"$ MEDIUM GRAY MEDIUM sticky

Sand / $11.75"$ medium light Gray to Grayish Tan

sticky Sand / $16.75'$ / Change in log to seq

Line

$16.75' \rightarrow$ Darker to medium Gray Sand w/
some denser or harder sections of sq.

$18.75' \rightarrow$ Dark Gray Hard Squeezed Clay
pressed into core Barrel

$21' \rightarrow$ Dark to lighter Gray Dense Clay
lighter Grayish Tan Sand (Clay or Fine
compressed) Sand squeezed or would
core Barrel finished off at $26.25'$

1/9/09 Friday

$26.25'$ start $\rightarrow$ light to medium Gray Sand
w/ oxidation zone $26.75' - 28.75'$

$28.75' \rightarrow$ light Gray sticky sand to Clay
Clay to $30.75'$ Gray + orange mottled Clay

$31.75'$ Gray and orange mottled Plastic Clay

$32' \rightarrow$ Soft Zone Low med pressure to $37'$

$37'$ to $38-7.5'$ CLAYISH Sand Brownish Gray

light to medium Gray

38.75' This 10' Sample lot of Pure
less Soft Coring = light to medium Gray
Clayish Sand w/ some Iron Oxidation > 41'

41' Slimy light gray Clay w/ a tint of light
Green Clay w/ pieces of Shell w/ Iron Oxidation

42.75' - 43' Harden light ^{colored} Gray Clay w/
Orange Sand & Sand Shells or Harden Sand
Pieces ~~43.75' to 44'~~

43' to 48.75' light Gray Clayish Sand w/ Harden
light Fractured Gray Clay w/ Harden Gray
Organic Sand or Dark Smoother Gray Sandy
Clay

Stopper Coring + pulled NQ out of
Hole to Advance 4" casing cause of
OVERBURDEN Problems w/ Clayish Sand

1/10/09 Finish Advancing 4" casing to
50' wash out casing Tag casing for TID
TAG Hole 54' 7" 49' 16" 49' 2"
Go Back in 4" casing w/ NQ + Core Barrel
to Continue Coring

1/10/09 48.75' Ran This Sample little
more Aggressive 200 psi - 300 psi pump
pressure > light gray + Tan Soft Sandy Clay
to 53'

53' > ? Light Gray + Tan Stuff (Sand + Clay)
to 55'

55' - 63' Very Hard light ^{colored} gray + ^{orange} Clay
Sand, last 10" of Sample and Retrieved

63' > Very light Clayish Sand w/ fine Shell
Pieces to 65'

65' Light Clayish Sand w/ lime
Stone pieces to 67'

67' > Change Information to Dark
Gray w/ a tint of Orange + Dark
Green Hard Clay to 72'

1-11-09

72' > Wash out casing before Installing
Core Barrel to Clean out casing
Install Core barrel Continue Coring made
2 attempts to Retrieve Core

72' to 75' = Dark Greenish Clay w/ orange Clayish
Sand to light Gray Clay at 75'

75' to 85' Combination loose to Hard
Stiff Brownish Orange Clay + medium
Gray Clay w/ some thin stone pieces
Problems Last 10' run in Retrieving Core
Stowed Pump down and Also Stowed
Rotation to assist in Retrieval not
much Help Wash out before Inverting
Core Barrel Changed Coring Shoe

85' light Greenish Hard + Soft Clayish
sand mixed w/ very Hard Blackish Organic
Clay w/ oxidized Iron or mineral Deposits
"Dark Orangeish Color"

89.50' Very Hard Blackish Organic Clay
w/ oxidized Iron or minor Deposits Dark
orangeish Color

Note = This Clay layer was very hard
compressed and very light Clay

90.50' light Gray very Sandy Clay or
Gummie Sand + Very Dry Confining Layer
to 95'

95' medium Hard Dry Gray Clay w/ a
hint of light Green Color possibly made w/
very fine silty Sand w/ soft Black Organic
Drilling or Coring This Formation
was Difficult A lot of minimake

Vibration on Console Deck of Rig
11/12/09

99' Hard light Greenish Gray Clay
possibly made w/ very fine Silty Sand

99.75' Transition to a Gummie Sticky
Very light Gray medium Sand w/ pieces of
whitish Colorers or very light Tan thin Stone
Turning to a light Brownish Gray Sandy Clay
w/ pieces of whitish Tan thin Stone

105'

11/20/09 WASHED out Casing at 105'
before Installing Core barrel. Went There
400 gal of Drilling Mud unable to re-
trieve Circulation. Pull W-C Inner Casing
to Advance 4" casing to 100' to Seal
off opening Taking mud. Unable to
Tag Hole due To Thick mud w/ll Try
in Morning

11/21/09 Freezing Weather Everything
Frozen with Ice.

Wash out 4" Casing w/ 2 W-C RHP be-
fore Installing Core barrel

Install Core Barrel at Core 105'-107'
Clayish Sand or light Tannish Gray Sticky
Sand

1/22/09 107' Light Tannish Gray Sticky
Sand or Clayish Sand to 107'6"

107'6" Whitish Tan lime Stone to 108'

108' Hard Whitish Tan lime Stone going
into Transition of Soft lime Stone w/
• some chunks of Hard lime Stone to 115'

Note: Ran This Run under or at 250
psi possibly missing 4' of Core due
to washing out in fluid loss went thru
250 gal. of Drilling Fluid in This last 10'
run

1/23/09

115' Drilling Thru lime Stone to 116'50"
Possible Cavern lost All Circulation and
Fluid and Floating sub Fell or Drapped Run
out of matrix water

116.50-125' Rubbly Gritty Very low

mud Pressure under 25psi No Recovery
Circulation loss. No Rotation Resistance
and no penetration Resistance

1/24/09 Re-Install W-D RHP Iron
Casing After Retrieving from yesterday
Repairing Core barrel and Re-Adjust-
ing. Install Inner Casing to 105'
wash out Casing and Bore Hole after
sitting overnight. Install Core
Barrel with Extendable Shoe to Try
to Re-cover any lost Sample Driller
to 125' unable to Retrieve any
lost sampling. Change Core barrel
Shoe to Standard Shoe Re-Install
Core Barrel. Having Trouble with
messenger not releasing core
Barrel from Retriever.

125'-^{131'}~~131'~~ No Recovery of Fluid,
Fluid loss + No Resistance, under 25psi
on mud pressure and Resistance on
penetration, or Rotation. Possible very
Soft formation unable to Retrieve in
Core barrel possible wash back into for-
-mation

131'-135' Whitish Tan Colored Clayish
Lime Stone Transition to a Very Hard
Solid Lime Stone at 135'

1/25/09 Re-Install outer core Barrel
with inner core Barrel. Washed out
at 135' Before Coring to make sure
Hole was Clean. Started coring from
135'-145' No Penetration Resistance
or Retention Resistance. Not Above
50' psi on mud gauge possible Empty
Cavern or very Soft materials That
Washed back in to Cavity walls. Core
Barrel was Empty

1/25/09 155.6' No Penetration Resistance
or Retention Resistance until 155.6'
155.6' Assuming bottom of Cavity. Empty
Core Barrel Again. Possible Soft Formation
Again and Washing cutting back in
to Cavity walls. Once again only 50 psi
on mud gauge

155.6'-162.5' Whitish Tan Colored Lime
Stone Hard Fractures mixed with
Soft Lime Stone Transitions in between
MUD Pressure 100 psi to 125 psi

Hard Limestone and Drill Head
was floating to 160'

160'-162.5' MUD Pressure 250-
300 psi Lime Stone with some
kind of Organics Color Change to
Thin Layer of Reddish Orange. Formation
Change to Clayish limestone possible
Transition to Dolomite. 500 psi of
fluid used from 155.6' to 162.5'

1/26/09 162.5' Transition back to
Compressed Tannish Gray Colored Clay
to 163' with some Organic mixed in w/clay

163.25' Transition to a Tan Colored
Cemented Clay followed by a Soft
Sandy Clay at bottom of Cemented Clay

2/3/09 Drill Site is to wet and
muddy from extremely wet cold
front that came thru over the
weekend, unable to fill water truck
without getting stuck in the clayish
mud. Do Maintenance on Rig + F-550

[illegible]

2/6/08 Start Advancing 4" casing slowly
to try to make casing bite back to
reset Hole straight after yesterdays
problem of deflection in Hole forcing
drag in. Rotation and Rotation spiked
at bottom of Hole and pushing casing
to left side of Bore hole unable to
determine what happen at bottom of
Bore / Hole. Drill Head is Flopping. No
Penetration Resistance but still have
Rotation Resistance from bore hole drag
due to Dry Hk. Built a motor mount

4" casing and filled it with drilling fluid to try to lubricate Bore Hole. Still unable to Reduce Rotation drag. Rotation between 2500 - 3000 psi. 3000 gal Drilling Fluid 22'-147'
2/7/69

Finish Advancing 4" Casing to 157'
Still No Resistance on Penetration but
still have Rotation Resistance Drill
with Slow Rotation 2000-2500 psi
147'-152' 3000 gals of Drilling
Fluids. Install NORTH P 160'
Outer Core Barrel Casing.

2/8/09 Coming Again Clean Stuff
out of 4" Continue Curing From
163.25 Turquoise Colorado Clay with
~~Dolomite~~ Dolomite pieces in the clay
164 Back into Tan Colored Limestone with
some possible stuff to 168'

168' Whitish Tan Colors moving to
Hard lime Stone migrating to soft
lime Stone, back in to Hard to lime
Stone to 175'

2/9/09

175' Possible Cavity or Skiff unable
to Retrieve 3' to 178'

178' Possible Cavity with loose limo
stone fragments to 181'

181' Back in to Tannish white limo
stone very soft formation to 182'

182'-188' Whitish Tan large stone in color
migrating back and forth from hard
limo stone to soft limo stone, back
to medium density limo stone

2/12/09

188' Tannish white in color limo
stone migrating in to unconsolidated
limo stone with shell fragments, soft
limo stone mixed with hard limo stone
to 193'

193' Fluid pressure dropped along with
floating Drill Head dropped and float
ed to 192' Possible Cavity

197' to 198' Pick up Tannish white
in color back to hard limo stone. When
Breaking Drill head and shutting pump
down major section on hoses flattening
fluid hose on tower and Drill Head
and when separating Drill head from
Drill pipe or Casing a lot of
Section.

2/18/09

198' Broken up Tannish white limo
stone migrating to a mixture of limo
stone and possible Dolomite 200'

200' Back to Tannish white in color
limo stone hard in density migrating
to a softer crumbly limo stone to
206' Loss of material to 208'
fluid pressure stayed consistent
This whole 10' run 200psi to 209psi

208' Tannish white in color hard +
shattered limo stone with iron deposits
in water channels in the limo stone to 212'

212' Softer whitish in color limo stone

with Iron deposits in water channels
and Also lime stone appears to be
broken or shattered or possibly just a
unconsolidated to 215'

218' Tannish white in color broken
lime stone with Iron deposits to 218.50

218.50 to 228 Possible Cavity No Fluid
Pressure Saps and under Also No
Penetration Pressure. Drill Head Flashed
Whole 10' run.

2/19/03 Pull all Core barrel Taking
out of hole to Install 3" N/C
Casing. Problem with pipe spinner
Remove pipe spinner from Drill Rig
and Disassemble.

2/20/03 Finish Reassembling pipe
Spinner and Remount on Drill Rig
Finish setting 3" N/C casing to 210'

2/21/03 Continue setting 3" casing from
210' to 230' problem arisen 208' to
210' unable to penetrate Dolostone

before adding the last 20' section
of 3" casing

2/22/03 Try Finishing setting 3" casing
again. Unable to get back Harmonic
Ringing back in drill stem. Pull all
3" casing to check bit. Bit is destroyed
unknown cause other than not enough
circulation due to collapsing of fluid
hole. Install Devils Nightmare bit
Re-Install all 3" casing again to try
to get past Dolostone

2/23/03 Continue Advancing 3"
casing again to 230'. was successful
had to shut down after pulling
3" casing to change casing shoe for
core barrel. They were getting
soft to blast 3:30 pm Head Home

3/3/03 Install Core Case Casing for
Core Barrel. Ran in to a bad piece
of 3" casing at 90'. Pull Core Case
casing out and pull 90' of 3" casing
out. Install Core barrel to see if
it clears 3" it does. Install New

3" Casing 90' Re-Install 2" Casing
Casing to 227' Install
Casing barrel wash out 3" Casing and
Try to Recover Anything In Casing
Casing barrel had nothing but already
cut materials from cutting w/ 3"
Add another 20' of N.C. Casing
233'-253' Re-Install Casing Barrel

3/4/09 Start Casing at 231'

231' Stuff From Cutting with 3"
Casing and 2' into Casing lost all fluid
pressure and Return. Drill Head Float
ed to 238.50' Possible Casing or Soft Zone

238.50' Whitish Tan Lime Stone Soft
in Density 238'

238' Very Soft Whitish Colored Lime Stone
Low mud pressure and Drill Head would
Float from time to time to 244'

3/5/09
244' Soft Whitish Colored Lime Stone

Very Soft in Density Low mud
pressure Drill Head Floated All the
way with Fluid Hose Collapsing at
End of run 248'

248' Whitish Colored Lime Stone
Hard in Density then Transition to
Soft Back and forth to Hard Lime
Stone Ending of run at 258'

3/6/09 258' Transition to Very hard
Combination Lime Stone to Dolomite
Whitish Tan in Color Very hard
Coring. Core's have a lot of fossils
to 268'

3/2/09
268' No Change in Formation Still
Very hard Lime Stone in Whitish
Tan Color with Imbedded fossils
to 274'

3/8/09 274' Transition Whitish Tan
Colored Lime Stone from Hard in density
to Soft and Crumbly and less fossils
to 278'

278' Whitish Tan limo Stone ~~Start~~
Starting to migrate back to a more
Hard in Density still grainy with
some soft zones but still have
it migrating back to very soft zone
with possible Cavities to 288'

3/16/09 288' Possible Cavity Continues
until 289'

289' to 290' Tannish Color Finer Grain
limo Stone or Dolomite.

290' Possible Cavity Again No Relation
or Penetration Pressure Drill Head
Floated until 294' also No Mud Press.

294' Started picking up Tannish Color
limo Stone or Dolomite mud Pressure
200+ Rotation Pressure 1500 psi
until 295'

295' Head Dripped, pressure Drapped
mud pressure, Rotation Pressure Drapped
Fine Brown muddy Sticky Sand with
Some Brown Stone or Sand Stone

296' Dark Brown Dolomite to 298'
Dolomite cut Very Hard and Slow
lost 2' of 10' run

3/16/09 298' - 308' Wash out NQ/RHP
Casing before Installing Casing Barrel

3/17/09
298' - 308' Nothing but
Broken limonite + Dolomite

Brie logged Hole

3/18/09 Pull NQ/RHP Casing
Brie logged Hole Again
TAGGED Hole at 298'

MIXED 3 bags of Quick Greet
pump. GROUT down Hole
pulled Tannish pipe
TAGGED Hole Again at 298'
After Grouting
fill casing with water before
pulling 3" casing

After Pulling 3" Casing TAGGED Hole
Again TAGGED at 298'

3/15/08 Pull 4" Casing up 20' to
Set Packer at 123' Tag
Hole at 123' Pour 2 Bags of
3/8 Bentonite Chips Hole Plus
Tag Hole at 110'

Pull 70' of 4" Casing leaving
20' of 4" Casing in Hole

Grout Hole with 6 Bags of
Quick Grout which brought Grout
all the way to hand Surface

Pull Remaining 20' of 4" Casing

Top off Hole with 1/2 bag
of 3/8 Bentonite Chips Hole Plus

Hole is Completed (CC) 6

3/31/09 Conner Prosever
28° 18.804 $\searrow$ est Acc 11.3
82° 26.594 $\nwarrow$ AUG 1490

3/31/09 Start off by using Split
Screen System:

0 - Blackish gray sugar sand, Dark Brown
sugar sand, Brown sugar sand, Brownish Tan
sugar sand, light Tan in color sugar sand 2.5

2.5 > light Tannish Brown in color sugar
sand 5.0

5.0 > light Tannish Brown sugar sand 7.5

7.5 > Mixture or Marble Blackish
brown and light Tan in color sugar
sand 8.0

8.0 > Brown in color sugar sand 10.0

10.0 > Dark Brown very moist sugar
sand migrating to Grayish Brown in
color sugar sand 12.5

1205 > UNABLE to Retrieve Natural
Core possible washing back into
formation. Bottom of Core barrel / Shear
had dry brownish Tan Sugar Sand to
15'

1353 hrs 4053 mi

41/09 15' Gray in Color Clayish
Sugar Sand Changing to a bluish Gray
Clayish Fine Sugar Sand, Changing to
a light Tannish Brown in Color Sticky
Sugar Sand 22.2'

22.2' Light Greenish Gray in Color Fine
Sticky Clayish Sugar Sand, Whitish
Tan in Color Limestone migrating back
to light Greenish in Color Fine Sticky or
Clayish Sugar Sand to 28'

28' Missing Core was only able to
Retrieve some Whitish Tan in Color
Limestone with some Fine Sticky
Bluish Gray Sugar Sand or Clay to 38'

38' > Limestone Stuck in Outer barrel

Casing not Allowing Core Sample
in Core barrel still inner barrel
And outer barrel casing to check
shoe - Limestone stuck in Shear

UNABLE to Retrieve Core from 38'
44'

~~44'~~ > 20' - 4" Casing Set at 18"
30' - 3" Casing Set at 22'

44' Whitish Tan in Color Very
Peculiar Limestone with a bluish Green
in Color Clay confining layer, back to
Whitish Tan Limestone with Quartz Sand
to 49.5'

49.5' > Whitish Tan very porous
Limestone 51.25'

51.25' > Whitish Tan in Color Harder
Limestone migrating back to a very
porous Limestone 58.50'

58.50' > Softer Whitish Tan in Color
Limestone migrating to a Sand (Quartz)

limonstone migrating in to Green in
Color Dry Gumbo Clay (Wauthoro)
Changing back to Sandy Soft Whitish
Tan in Color limonstone 69.50

69.50's Whitish Tan hard limonstone
with Green ~~in~~ Color Dry Gumbo
Clay imbedded in the limonstone matrix
Tannish colored limonstone with soft
and Hard Channels 74.50

74.50's Whitish Tan in Color Soften limo
stone with Iron Deposits and changing
to a light grayish white in Color Sandy
limonstone 79.50'

4/2/09 light Grayish Colored limonstone
79.50' with some Shell Fossils Imbedded to
82.50'

82.50's light Grayish white in Color limo
stone very hard in Density with some
crumbly zones to 89.50'

89.50's Whitish Tan in Color Crumbly limo
stone with Shell pieces migrating to a
Harder limonstone to 92'

~~90~~ Note at 91' Slight Color Change
to light Grayish Color limonstone to 92'

92's Very light Gray in Color Crumbly
Sand on limonstone to 98'

98's Color change in limonstone light
Brownish Tan limonstone with fossils imbedded
to 99.50'

99.50's Whitish Tan limonstone changing
to a Tannish color and very Crumbly
to 103.25

103.25's Tannish in Color limonstone with
Fossil molds to 104'

104' Tannish in Color limonstone with
Fossil molds still continuing to 109.50'

109.50's Tannish in Color limonstone still
with Fossil molds migrating to a light
Brownish Tan in Color limonstone with
Organics to 114.50'

114.50's Transition in Color of limonstone

Changing to a Whitish Tan in Color
limestone to 115'

115' Tan in Color migrating to Whitish
Tan in Color Hard limestone to 118'

118' Soft gummy coated limestone

119.50' Mixture of Whitish Tan in
Color limestone Changing to a very
Porous Brown in Color limestone

Changing back to Whitish Tan in Color
limestone to 123.50'

123.50' Stuff from Remaining 3" casing
Brownish Tan in Color Very Porous
limestone to 122.50'

Note: Advanced 3" casing from 30'
to 123' / 123 with casing out of ground

4/3/09

127.50' Light Brownish Tan in Color lino
stone with fossil molds to 129.50'

129.50' Light Brownish Tan in Color

limestone with some fossil molds migrating
to a Darker Brownish Tan in Color and
also a muddy coated limestone changing
back a lighter Tan Colorado fossil mold
limestone 139.50'

139.50' Tannish white in Color also Tannish
Brown in Color limestone Changing to
a Grayish Softer Crumbly limestone to
149.50'

149.50' Combination of Grayish in
color also Tannish Brown in Color Soft
Crumbly limestone with some fossil molds
to 151'

151' Tannish Gray in Color Soft Crumbly
limestone with some fossil molds to
156.50'

156.50' Light Gray and Tan in Color
soft Crumbly limestone migrating to a
soft Gummy muddy Clay and back to a
soft Porous Crumbly limestone to 159.50'

159.50' Very Hard Very Porous Dark
Gray in Color

migrating to very soft and crumbly
light Tannish Gray limestone changing
back to a firmer Tannish Gray limestone
to 162'

162.5' Grayish in color limestone migrating
to Channots Gray in color clay and back
to very porous limestone 169.50

169.50' Transition in limestone Brownish
Grayish + Tan in color limestone
migrating to a Gummy Clay Gray in
color with some limestone or some
kind of stone not sure what it is
to 173.50'

173.50' Tannish Brown ~~Thin~~ color Hard
limestone to 179.50

179.50' Tannish Brown in color Hard
limestone migrating to a Grayish color
muddy clay changing back to light Grayish
Tan in color Hard limestone to 184'

184' light Brownish in color limestone
becoming soft and crumbly and very porous

with Fossil molds to 188'

188' Limestone is changing back to a
Grayish Tan in color and Hard in Density
and becoming very Clayish to 189.50.

189.50' Still a little Clayish changing
back to a medium in Hardness and
Porous in texture and Grayish Tan in color
becoming crumbly to 193.50'

193.50' Limestone is changing in to a
softer and crumbly and grainy still
Grayish in color ~~migrating to a Hard~~
~~thin~~ with some fossil molds and
waffery 199.50

199.50' Limestone is still Grayish in color
and very crumbly and grainy migrating
back to a Hard in Density with some
fossil molds and waffery migrating back
to a softer limestone with fossil molds
and very porous 205.50

205.50' Limestone is becoming soft
and Grayish Tan in color and very

Clayish on the outside and crumbly
to 208.50

4/4/09

208.50 > Very soft and Crumbly (Grayish)
Tan in color with Fossil molds 209.50

209.50 > Grayish Brown in color limestone
Harder in density becoming more porous
and some fossil molds towards 214.50

214.50 > Grayish Brown in color and hard
in density in the beginning of run
migrating to a very porous limestone
with fossil molds to 218.50

218.50 > Very soft Very Consolidated
light Grayish Brown in color lime
stone to 220.25

220.25 > Very soft Very Consolidated and
light Grayish in color limestone migrating
to a very crumbly and grainy with fossil
mold to 222.50

222.50 > Very soft light Grayish Tan in
color limestone and very porous

and becoming (crater) with a whitish
color and Gummie or sticky and migrating
back to a very crumbly and soft
limestone 239.50

239.50 > Still some what crater with
a color in or other mineral over the
medium Tan colored limestone migrating
back to a some what consolidated tan
rich color limestone to 240.00

240.00 > Light Grayish Tan in color Consolidated
limestone migrating back to sticky or
Gummie crater soft lime stone to 249.50

249.50 > light Grayish Tan ~~in~~ color
~~new~~ Consolidated limestone migrating
to a porous soft grainy limestone
back to a Consolidated Tannish Gray
medium limestone to 255

255 > Tannish Gray in color Consolidated
limestone to 262

262 > Tannish Gray in color Grainier
limestone to 262.50

269.50' Brownish Tan in Color limo-
stone medium in Density with some
Fossil molds to 279.50'

279.50' lighter Tan in Color Soften
limestone some crumbly zones and
in some cases grainy to 289.50'

289.50' Grayish Tan in Color and very
crumbly to 291.25'

291.25' Grayish Tan in Color limestone
migrating to a very soft clayish or
gummy coated limestone migrating
to a soft crumbly limestone to 299.50'

4/5/09

299.50' light Grayish Tan Color Sand Stone
with imbedded Broken Shell Pieces
or it could be a Dry Consolidated mud
matrix to 303.50'

303.50' Whitish Tan Sand Stone or
a Dry Consolidated mud matrix with
Broken up Shell Pieces migrating towards
a Clayish or Gummy Calcium Deposit
to 309.50'

309.50' light Tan in Color Very Hard
Sand Stone matrix with Broken
up Shell Pieces to 315.50'

315.50' light Tannish Gray in Color
Sand Stone or medium in Density
Dry mud with Broken Shell Pieces
to 318.50'

318.50' light Gray in Color Sand
Stone or Dry mud matrix with
Broken Shell Pieces to 324.25'

324.25' Whitish Gray in Color
Oyster Tan in Color Sand Stone
matrix with Fine Shell Pieces
migrating to more tan in Color Sand
Stone matrix with fine Shell Pieces
and some Fossil molds to 329.50'

329.50' Continuing Whitish Tan
in Color Sand Stone or a Dry
Consolidated mud matrix with Fine
Shell Pieces and Fossil molds to 334.50'

334.50' Continuing to a very

muddy matrix very hard in Density
to 339.50'

339.50' light Gray in Color Very
Dry and Hard mud matrix migrating
to Sand Stone matrix with fine
shell pieces to 344.50'

344.50' light Gray in Color medium
Sand Stone matrix with bigger or
larger shell pieces and some fossils
to 348.50'

348.50' light Gray in Color Sand Stone
matrix with a Calcium mud coating
with fine shell pieces migrating to
a Harder in Density Sand Stone
matrix with fossil molds to 354.25'

354.25' light Tannish Gray in Color
Grainy Sand Stone with fine shell
pieces and becoming more porous
to 359.50'

359.50' more of a Grayish in Color
Sand Stone matrix Harder in Density

with less fossil/molds with larger
shell pieces becoming porous again
to 364'

364' Turning back to a Tannish
Color Sand Stone matrix with medium
shell pieces and fossil molds 368.50'

368.50' Tan in Color Sand Stone with
some fine shell pieces and some fossil molds
migrating to a Grayish Tan in Color Harder
in Density Sand Stone with fine shell to
373.50'

373.50' Continuing Grayish Tan in Color
Harder in Density Sand Stone with fine
shell and fossil molds to 379.50'

379.50' Grayish Tan in Color Sand Stone
medium in Density with fine shell
migrating to a Softer muddy Sand Stone
to 383.25'

383.25' Grayish Tan in Color Harder
Density Sand Stone with more fine
shell and more grainy to 388.50'

4/6/09

388.50 Tan in Color Sand Stone Hard
in Density migrating in to a Blackish
Brown Organic (Grog) migrating back to
Blackish Tan Gray in Color Sand Stone
with Organics Imbedded to 392.50

392.50 > Gray in Color Very Hard
Sand Stone with fine shell pieces and
organics starting to migrate into the
sand stone formation changing into
a Smoother Gray in Color Clayish Organic
changing back in to a Hard Grayish
Tan Sand Stone with some fossil
molds to 399.50

399.50 > Coarsest Tan Sand Stone Hard
in Density with fossil molds and also
fractures and with fine shell pieces and
foul odors to 404.50

404.50 > Tannish Gray in Color Sand Stone
Grainy and medium Density with
fossil molds and fine shell pieces and also
some organic to 409.50

~~404.50~~ Brownish Gray in Color Sand Stone
with imbedded fossil molds to 404.50
4/15/09

409.50 Changing to a Darker Brownish
Gray in Color a grainy cemented mud
with some organics and some possible
fine shell pieces and a couple of fossil
molds to 413'

413' > lighter Grayish Tan or Brown in
Color Clayish or soft cemented mud
with some organics and some fossil
molds to 419.50'

419.50' > A very hard Darker brownish
Gray cemented mud migrating to a
softer lighter Grayish Brown in Color
Clayish mud changing back to a
hard mud and changing back to a
softer Clayish mud to 423.50'

423.50' > A light Grayish Tan in Color
a soft grainy Clayish mud migrating
to a harder cemented mud migrating to
a hard cemented mud and Sand Stone
with organics and some fossil molds to
429.50'

429.50' Rock is to a limestone matrix
Brownish Tan in color Hard in Density
with some organics and fossil molds
to 439.50'

439.50' Brownish Tan in color Hard in
Density limestone with organics
migrating to a Grassy Combed mud
with some organics to 442.25'

442.25' Grayish Brown or Tan Very
hard mixture of Combed mud and
limestone with some fossil molds
migrating back to a Grassy Combed
mud Softer in density to 448.50'

449.50' T.D. SWFWMD
logging Hole and
Calibrating 4/16/09

4/18/09 Groot up Hole
10-Bags - Quick Groot
4-Bags - Hole Plug
Hole Complete 449.50 to
Land Surface

5/1/09 Rainbow Lake Estates
3105 Fire Station # 14 Ivy Place
Dunnellon Fl.
Elev. 101.7 Acc. 21.2
N. 29° 09.001
W. 82° 28.970

5/1/09 0' - 2.5' Grayish Brown in
color Sugar Sand

2.5' - 5.0' Grayish Tan in color
Sugar Sand

5.0' - 7.5' yellowish or Orangeish
in color Sugar Sand

7.5' - 10.0' yellowish or Orangeish
in color Sugar Sand

10.0' - 12.5' yellowish or Orangeish in
color Sugar Sand

12.5' - 15.0' yellowish or Orangeish in
color Sugar Sand

15.0' - 17.5' yellowish or Orangeish
in color Sugar Sand

Run 20' of 4" Surface Casing
17' to Landsurface 3" above
ground

Run 20' of 3" casing in side 4" casing

Install NQ RHP Casing for Core
Barrage

5/3/09 Problems Arriving, unable to
Retrieve Extremely Sandy Core try
to adjust mud pressure and Rotation
still unable to Retrieve proper amount
of Core Sampler

17.5'-18" X

18'-19' Slurry Sand (Sluff)

19'-26' Loss of Yellow or Orangish
Color Sugar Sand

26'-29' Loss of yellowish or Orangish
in Color Sugar Sand

29'-39' unable to Retrieve Sampler
of yellowish or orangish Sugar Sand

5/3/09 Pull NQ Casing to Install
30' of 3" casing Total to Landsurface
47'

39'-49" X Had to run 10' of
3" casing to Case off Conduit

Start Casing Again at 48'

48'-49' Orangish in Color Sugar Sand

49'-59' Orangish in Color Sugar Sand
migrating to Hard Crumbly Claylike
Dry Cemented mud matrix Changing
Back to a Greenish Clayish mud
Grayish white and Orange in Color

Pull NQ + Run 10 pull out run
10' more of 3" casing, start Re-
Installing NQ and Retired That
The 10' of 3" is Bad and we need
to pull it out and Replace it (A)

5/4/09

59'-59.75' Whitish Tan in Color →

A very Gummy Clayish Sticky mud

59-75' A whitish Tan or Orangeish in
color very dense Gummy Sticky mud
to 65'

63' more of a Orangeish Tan very
Gummy & Sticky mud to 69'

69' Orangeish Gray in color changing
to whitish Gray in color Gummy
mud with some organic's toward
end of Run to 71'

71-74' Brownish Tan in color and
also Orangeish in color Sticky
Gummy mud migrating to a
Sticky Gummy Marble in color
mud

74-76' Changing back to Tannish
Brown in color Sand

76-78' Tannish Brown in color Gummy
Sand

Spikes into ~~58'~~ 58' 3" casing

Spent half a day messing with
Fwy problem with Effmann, Chaugoo
Fwy filter still having problems
Short casing got 1' of sample and
Inner barrel got stuck inside outer
barrel

5/10/08

22' Starting with Brownish Tan in color
Sticky Gummy Sand or mud changing
to limonstone whitish Tan in color to
24'

85-89' possible cavity no returns

pull NQ RHP out to Install
22' of 3" casing $58 + 22' = 80 + 10 = 90$
88 or 87' of 3" casing

Install Cuv Barrel and NQ RHP

Tapped TD out the Bottom of 3"
 $96.7 - 36.2 = 60.5$
 $96.7 = 95.5 TD$
60.5

5-14-09 Start Coring At 90.5'

90.5' Whitish Tan in Color limestone
That is very Fractured with some
Iron Deposits to 102'

102' Whitish Tan in Color limestone
becoming cherty to 107'

107' Softer Whitish Tan in Color
Crumbly limestone with some organics

Roll NC RHP to Install 20'
more of 3" ~~87'-2 = 85-10 = 75~~
90'

107'-109' Whitish Brownish Tan in
Color Softer limestone with some
organics

5/15/09

109' Whitish Tan in Color limestone
with fossil molds to 114'

114' Whitish Tan in Color & Softer

Grainy limestone to 119'

119' Continuation of Whitish Tan
in Color limestone soft and Grainy
with some Organics migrating to
a harder limestone with fossil mold
to 127'

127' Whitish Tan limestone hard in
Densely migrating to a softer limestone
with a water bearing zone in the
Transition zone carrying Iron Deposits
128.80'

128.80' Whitish Tan in Color hard
cherty limestone to 129'

129' Transition in limestone now
Tannish in Color with fossil molds
with some water bearing zones carrying
Iron deposits also with possible Delo
stone and mud to 132'

132' Transition of limestone changing
to Dolomite or possible Dolomite
with fossil molds and Iron Deposits

139.5 Tan in Color Dolostone with fossil molds migrating to a very porous Dolostone with Iron mineral Deposit. Changing back to a very hard Dolomite to 141.25

sticks

141.25 Very hard Dolomite Fractures migrating to a very hard Dolomite with fossil mold to 143' hard Deep Cavity

143.5 Cavity with some Dolomite stuff to 143.50

143.50 Continuous Dolomite Fractures to 145.50

145.50 Cavity to 147'

147.5 Grayish Tan in Color Dolostone Floating Drill Head, Deep Hard in to Cavity pick up dolostone again at 148.25

148.25 Grayish Tan in Color Dolostone to 149' possible cavity drill head Flashed at End of Run

149.5 Dolostone Stuff on Fractures Buity to 155.50

155.50 Problem Cutting Dolostone Rolling Around in Core barrel Dolostone Fractures Lost Core Sampler to 155' Chatter Clayish Dolostone at End of Run
5/12/09

159.5 Interesting Change in Formation Whitish Tan in Color Common mud with organics migrating to a unknown Rock with water fishing with Iron Deposits and organics Changing to a Limestone with fossil molds to 161.25

~~161.25~~
5/26/09 mudlin International works on Schumacher Drill Rig
161.25 **RAINED OUT**

5/27/09

161.25 Whitish Tan in Color Hard in Density with a water vein turning

into Fractured limestone to 169'

169.2 A whitish Tan Cherty Concretion mud with some limestone left and possible cavity to 170.25

170.25 Unable to Penetrate formation pull core barrel and after Coring found that bit was worn to nothing

run more 3" casing pull 5' back to 80' run another 80' to 160' + 10' = 170' 2" stick up 168' + 5' = 173' plus 2" stick up 171'

5/8/09 Problem with 3" bad piece of 3" GC' down in hole pull 60' of 3" out replace bad piece Reinhold MC RHP and Core Barrel

5/8/09 Start Coring from 170.25 to 179' Core Barrel Empty ☺

189 went 4' pulled core Barrel T99 At 183' = Fractured Dolostone with Iron Deposits Changing into a harder bed

stone with fossil molar back into a Fractured Dolostone which Tan in color

183.2 Whitish Tan in color Brassy Hard in Density Dolostone with wider Channel with Iron Deposits migrating to a little better in Density and Crumbly towards end of run to 189'

189 Starting with Fractured Dolostone with Heavy Iron Deposits changing to a solid Dolostone with a cavity between 192'-193' with Iron Deposits again

193 Tannish white in color Dolostone becoming a little Brassy changing back to a more solid Dolostone to 196.75

196.75 Cavity to 197.25

197.25 Fractured Dolostone with Iron Deposits to 199.

199 Dolostone becoming Harder in Density and more Polished with Iron

Dolomite and some fossil molds
and very fractured to 200.75

200.75 Dolomite Hard in Density
and Polished still has Iron Deposits
and some fossil molds to 202.75

202.75 Dolomite Tannish white in
color, very hard and polished with
Iron Deposits to 205.25

205.25 Dolomite Very hard in Density
and Polished with water Channels
with Iron Deposits and becoming
fractured to 209

5/30/03

209 Fractured Dolomite with Iron
Deposits migrating to a cavity or a
seam in the Dolomite between 210.25
to 210.75

210.75 Whitish Tan in color Dolomite
to 212.75

212.75 Whitish Tan in color Dolomite
migrating to a whitish Tan in color
limestone to 214

214 A Dolomite/limestone mixture
with Heavy Iron Organics to 215.75

215.75 Brownish organic Dolomite with
Crystallization of Iron Organics
migrating to a more Dolomite matrix
to 217.75

217.75 A Dolomite matrix with
a lot of Crystallization and Iron
organics to 223.50

223.50 Purer Dolomite matrix to 224

224 Cavity to 225.50

225.50 A Crystallized Dolomite matrix
very fractured with muddy Clay seams
to 228

228 Tannish white in color Dolomite
fractured with Iron deposits and organics

231 1/2 Fractures Dolostone with some
Crystallization and Iron deposits with
organics

233.50 Dolostone Dooloway Pellicles and
some Crystallization also Calcium phosphate

237 1/2 A Tannish Colored Concretion mass
migrating to a Crystallized Dolostone
with Heavy Iron Deposits, Calcium
phosphate

237 1/2 Tannish white is Ckr Fracture
Dolostone with Iron Deposits and
organics to 241' End of Hole

6/10/09

2 Bags Quick GROUT

1 Bag Hole Plug Taggus Hole 182'

6/11/09

9 Bags Quick GROUT

4 Bags Hole Plug GROUT
Completed

7/11/09

Deerfield Beach Broward
County JFWMD Section
47S Township 42E Range

G-56 Hillsboro Canal

GPS MAP 76 Garmin

N 26° 19.650 Acc 218

W 080° 07.835' Elev 14'

Permit #
6-09-84567
USGS #
G-2984

7/10/09

0'-4.50' Fill Dirt

4.50-5' Black Quartz Sand with ~~organic~~
organics

5'-9' Black Quartz Sand with
organics Changing to a Brown Quartz
Sand

9'-19' Dark Brown Quartz Sand
Run 4" casing 20' Run 3" casing 20'

7/12/09

19'-25' Lighter Brown Quartz Sand
in Color
Run 10' more of 3" casing

25'-29' Tannish Brown Quartz Sand
in Color

29'-39' Whitish Tan in Color Sand
Box. Retrieve Inner and outer
casing that are sand locked

7/13/09 Core barrels inner sand locked
From Yesterday's last run due to
Heaving Sands and shallow depth
pull 3" casing out of Hole and Add
20' more foot of 4" casing
40' Total of 4" casing
Install 40' of 3" casing
Hope to seal off conduits on 4"
Casing Annularis

7/20/09

39'-42.5' white Quartz Sand Cuttings
Caught with sifting Tray. Unable
to Retrieve with Core Barrel

42.5-43' white Quartz Sand Cuttings
Caught with Sifting Tray. still unable
to Retrieve with Core Barrel

7/23/09

43'-46' Whitish Gray Quartz sand
cuttings caught with Sifting Tray

46'-48' Whitish Gray Quartz sand Caught
with Sifting Tray

Pull NQRP and Install 10' more
of 3" casing Total 50' of 3" casing

Re-Install NQRP In Hole to
Continue Casing in running

~~2/2/08~~
8/4/08

49'-52.75' Whitish Gray in Color
Quartz Sand, Hard Pan, Whitish Gray
Quartz Sand migrating to a gummed
Gray Quartz Sand

52.75'-59' Gray in Color Quartz
Sand Imbedded in Gray in Color Clay

Pull NQRP and Core Barrow
to run Another 10' of 3"
Casing to land surface 58'

8/5/08

59'-64' Similar Gray in Color Gummed
Sand with some Fine Shell Pieces
and small Gray in Color limestone

Swelling in from 64'-68' possible
water Channel

68'-72' Seam of Fine Grayish white
in Color Sand migrating to a Coarse
Sand Stone Crumbly.

72'-78' Combination of Sand Stone and
Shell Rock with minimal Organics
Imbedded Shell pieces

8/6/08

79'- Run 3" casing to 78'

3" casing dropped added another 5'
of 3" casing 63' Total = 65'

8/7/08 Rig Repair

8/8/08 Rig Repair

8/8/08 run 20' more of 3"
95' Total

8/10/09 Set up Soto After work off
pump fluid down hole to Shaker
Barrel Head

8/10/09 pump more fluid down Hole
Install Down Barrel de Centurion
Coring.

98'-101.25' light Gray in Color Soft
Sand Stone becoming very porous
with some small Turbidites loss of
circulation

101.25'-103' light Gray in Color Fractures
Sand Stone

103'-104.75' light Gray in Color Fractures
Sand Stone

104.75'-109' light Gray in Color Fractures
Sand Stone

109'-110.25' Darker Gray in Color
Fractures Sand Stone

110.75'-111.50' Darker Gray in Color
Fractures Sand Stone

111.50'-113' Darker Gray in Color Fractures
Sand Stone

113'-114.50' Darker Gray in Color
Fractures Sand Stone

114.50'-115' Darker Gray in Color Sand
Stone Fractures with pieces of shell

8/12/09

119' pull NGRHP to add
20' of 3" casing 118' = 120' total
118' to land Surface. Seams of
Turquoise Colored fluid out of Annulus
120' install NGRHP and Down
Barrel Centurion Coring

119'-121' lighter Gray in Color Sand
Stone Fractures

121.25'-123.25' Gray in Color Sand Stone
Changing to a Darker Gray in Color $\rightarrow$

Sand Stone with Shell Imbedded
And Still Fractured

8/20/05

123.75 - 124' Dark Gray in Color Sand
Stone with Shell Imbedded and still
Fractured

124 - 125' Darker Gray Sand Stone in Color
with Shell Pieces Imbedded

Notes & Seams of Dark Gray in Color
Quartz sand with Organics from
119' - 120'

125 - 126' Dark Gray in Color Fractured
Sand Stone with some Shell pieces
Imbedded

126 - 129' Dark Gray in Color Sand Stone
occupying more space with some
Shell pieces and also seams of Dark
Gray Quartz Sand with Organics

8/20/05

129 - 130.50' Seams of Turquoise
Clay and Back into Dark Gray
Sand Stone and very Quartz

130.50 - 133.75' Seams of Quartz
sand, Dark Gray in Color and
Dark Gray Quartz Sand Stone
Also loss of Circulation

133.75 - 134.25' Gray in Color Sand Stone
still with seams of medium Gray Sand
in Color and Grain Size with organics

134.25 - 136.75' Darker Gray in Color
Fractured Sand Stone with seams of
medium Gray Sand in Color and
Size with Organics

136.75 - 139' Lighter Gray in Color Sand
Stone still fractured with seams of
medium Gray Sand in Color and
Size

139 - 141.25' Lighter Gray in Color Fractured

Sand Stems with some of medium
Gray Sand in color and size

8/22/69

141.25 - 143.50 Lighter Gray in color
Fractured Sand Stem with some
of medium Gray Sand in color and
size

143.50 - 144.75 Darker Gray in color
Fractured Sand Stem with some
of medium Gray in color and
size sand

144.75 - 149 Darker Gray in color
Fractured Sand Stem with some
of medium Gray Sand in color
and size with organics

149 - Pull all NQ RHP to
Install 20' more of 3" casing
118' to 138' = 140' 2" stick up
138' to land surface

Re-Install NQ RHP to Cement

Coring

8/23/69

149 - 151.75 Lighter Gray in color
Sand Stem beginning more prevalent
with fine shell pieces with some
of medium Gray in color sand and
grain size

151.75 - 153.25 Dark Gray in color
Sand Stem with some of Gray in
color medium size sand and fine
~~153.25~~ shell pieces

153.25 - 154.25 Dark Gray in color
Sand Stem with some of coarse
Gray Sand in color

154.25 - 155.50 Coarse Gray Sand
in color and size with dark
Gray in color sand stem

155.50 - 159 Very coarse pulverized
Sand Stem and shell and fracture
Sand Stem lighter Gray in color

Pull all NQ RHP and Core Barrel
Large Production Zone 159' to 160'

Instal 20' more of 3rd Feb 160
158' to land surface

8/3/09 Set Drill Site back up
for this workweek of Coring

9/1/09 Pump Thick Drilling Fluid
Thru 3rd Coring to Clean Hole after
settling for a while

Tag Hole TD 163' - 3' stick up
160 to land surface

Re-Install NRHP and
Check Minor Barrel Sealing
with cure Bitum pull up
Barrel and Cement. Installing
NRHP

Mix up another Thick Batch
of Drilling Fluid and pump
down hole

Note & Also Change Bit

to A #2 Impreg bit to Replace
#4 bit, was too Aggressive
with Soft Forming

9/2/09 Rained All Day
Tried to wash out
wait it out

9/3/09

159-160.50: Strains of Tanish Gray
in Color. Polyzircon Sand Stone and
Polyzircon Shell and Sand Stone w/
fossil mold and light gray in Color

160.50-162.50: Strains of Dark Gray
in Color medium Sand with Shell
pieces and Darker Gray, in Color
Sand Stone Fracture

162.50-163.75: Dark Gray in Color
Fracture Sand Stone and medium
Gray in Color Sand

163.75-164.25: Light Tanish Gray
Fracture Sand Stone with Shell

Pieces and Also Some Grayish Tan
Sand Matrix in size and color

164.25 - 169' Tanish Gray in Color
Contains Sand Stone with shell
pieces and Fractures Darker Gray
Sand Stone with Some of Tanish
Gray Quartz Sand in Color with
shell pieces

9/4/09

169 - 170.50 Coarser Brownish Gray
in Color Quartz Sand with
Pulverized Shell

170.50 - 174 Same as 169 - 170.50

174 - 179 Some of Silty Dark Gray
Sand and Fractures Sand Stone
Dark Gray in Color

Put all NORTH P to Instell
20' more of 3" core to 179'
177' to 180' more

Re-Install NORTH P in Hole
to Continue Core
9/5/09

179' - 184' Still Some of fine silty
Dark Gray in Color Sand with organic
and medium Gray in Color Sand Stone

184 - 189' Brownish Gray in Color
medium to fine Sand with organic
and fine shell pieces.

189 - 193.25' light gray in Color Very
Fractured Sand Stone suggesting to
A Combination Sand Stone lime stone
miller back to A light Gray Sand
Stone or A Cemented, Calcium
with Imbedded Shell

193.25 - 193.50 Combination Sand Stone
and limestone with Imbedded Shell
light Gray in Color

193.50 - 199' Same as 193.50 - 199'

199 - 202.50 Same as 193.50 - 199'
but more fractured

202.50-203.50 Sand Stone light gray in color and Fractured

203.50-207 Darker Gray in color Sand Stone with some of medium to fine Dark Gray in color Sand with Organics

207-209' - Possible Cavity or Sands washed back into formation

209-219' Olive colored Sand Stone with Organic

9/6/09 pull All 220' of NORTH to install 40' more of 3" casing to 218' and surface

219-229' Concretion Sand Stone with organics and Olive Gray in color with either some of fine sand or Cavity. Hole did not cut much this 10' run

229-232.50 Concretion Sand Stone Brownish Gray in color

~~232.50~~ 232.50 - Possible seams of Sand or Cavity's

232.50-239' Concretion Sand Stone with some of Dark Gray in color medium to fine sand, and light Gray in color also milky Clay Sand Stone Olive brownish Gray in color

9/7/09

239-244' Brownish Gray in color Sand Stone with some of medium to fine Dark Gray in color Sand with Organics

244-245' Brownish Gray in color Sand Stone with some of light Gray in color Clay

245-256' First 3-4' Possible Sand Clay or Cavity Drill Holes Flashed last 3' of Run Cut into Olive Gray in color Fractured Sand Stone

256-259' Olive and Dark Gray in color

Sand Stone with Spines of possible
Chry Inner barrel kept waiting
to plug off

259-264' - Dark Chry Gray in Color
Fractured Sand Stone

264-265.75 - Dark Gray in Color
~~Sand~~ Gummy Fine Sand with organic
migrating to Dark Gray in Color
Sand Stone

265.75-266 - Dark Gray in Color
Sand Stone

266-269 - Dark Gray in Color Sand
Stone with Shell Pieces

9/18/09

269-271 - Light to medium Gray in
Color Sandy limst Stone with Shell
Pieces and Fossil Molds

271-273.50 - Same as 269-271

273.50-275 - Fractured Sand Stone with
Shell Pieces and Fossil molds with Spines
of whitish Gray in Color Gummy limestone
sand or Gummy Sand

275-284.25 SAME AS 273.50-275

284.25 Darker Gray in Color Denser
Combination Sand Stone / limst Stone
loaded with Fishers and Fossil molds

285.75-288 - Same as 284.25-285.75

9/20/09

289-293.75 Possible Cavity in
mod pressure or Relation Pressure
Heavy Fractured Shaky Gray in Color
Quartz Sand and Organics and Shell
Pieces

~~10/15/09 After Pulling all 304' of RP
2HP out of hole and Being Sand
locked again and After loss of RH
Relation and Repair on Rig from
last week work~~

10/10/09 Start Casing at 293.75
and get sand locked immediately
pull NORTH

Change water supply, fix make up
water to much soft in water
killing Quick Co

10/10/09 293.75 > STUFF

294' - 299' Combination Sand Shale
and Stone Olive Green in Color
Quartz Sand and Crinoids

299' - 302' Same as 294' - 299'

10/11/09

302' - 304' Same as 302'
Sand locked Again (A)

10/12/09 After finishing making Repair
on Schramm's R/H Restoration. To
circulate mud and add Sea Salt
and Quick Tril to Robust Drilling
Fluid

circulate mud down Hole and Rotate
3" Casing Try to Flush plug in casing
cut to drop plug off mud pressure
had to pull 20' of 3" casing to get
up plugged work all condition 3" Hole
to Advance 3" x 20' casing to 300' -
298' landsurface

10/22/09 mix up 700' gals of Fresh mud
for Advancing 3" casing to 300' -
298' landsurface

Tagged Hole 300+ Hole must have
stayed open or closed back cut at
304' 298' landsurface of 3" casing

10/28/09

304' - 309' Olive Gray in Color mud
Stone with Shell Pieces suggesting the
Greenish Gray in Color mud stone

309' - 312' Same as 304' - 309'

312' - 319' possible limestone matrix
suggesting back to Olive Green in Color

two stones

319-321' Same as 312'-319'

321'-327' last Sample

10/29/08

327'-331.50' Limestone two stones
matrix Olive Gray in Color

331.50'-334' Olive Gray in Color
two stones Very Soft

334'-338' Same as 331.50'-334'

338'-342' Same as Above

342'-348' Same as Above

348'-357' Same as Above

357'-359' Same as Above

359'-369' Change in matrix Cause Sand
Quartz in 320 water bearing zone

Still Olive Green in Color

369'-375' Olive Green in Color two stones
Very porous and some limestone matrix

375'-378' Same as 359'-378'

378'-388' Same as Above Very little
Change in Matrix

388'-391' Olive Green in Color Soft to
medium Hardness mud with mixture
of air Sponges of Clay Hard to Rubbed
most of it washing Back in the
formation

399'-404' Loss of run down after
using extended string still no luck

10/30/08

404'-409' Olive Gray in Color Soft
mud stone Core Barrel Retrieval
Came apart down hole

10/31/08 Repeat Core Barrel Retrieval

After pulling All NORHP out
of Hole to Retriever and Drive
and Better Half of Retriever

11/10/09 Put 433' NORHP Back
in Hole to Start Coring Again

409'-424' mud Stone Boquer very
soft and Dark Olive Green in Color
Becoming very Common Fine Clayish
Sand to 443'

443'-473' Olive Green in Color
Common phosphate with very little
Quartz Sand very Clayish
Positive Hawthorne Clay Core for
Setting Core in

11/12/09 pull 473' of NORHP
out of Hole and pull 130' of
3" out of Hole problem at 150'
170' unstable

11/13/09 Wash out 3" casing and
Re-Install 473' of NORHP
per Ken Campbell and Ken Kewer

180' of 3" Left in Hole 178'
Land surface

11/14/09 Condition Hole and Thin mud
down and pull 423' of NORHP 469'
Land surface so Ken Kewer and Mike
Wester can start logging hole

443' Hole Stayed open for logging

11/15/09 set Bentonite packer at 182'-
179' run 2 batches of Thick Heavy
Drilling Fluid to sit in Column of
3" casing 180' over night

11/16/09 pull 180' of 3" casing out of
hole

Start Running 16" Hole for
10' casing to 120' for 110'
10' casing

40 bags Bags Portland
18 bags of Quick Cement
15 bags of Hole Plug
8 bags Gray Seal

Short Rotating 6" Holes to 420
 Re uses to 109 from 100' to
 420'



Atlantic Drilling Supply, Inc.

A&S Distributors

A Division of Atlantic Drilling Supply, Inc.

2/11/10

127 in Holes

147

167

187



Atlantic Drilling Supply, Inc.

A&S Distributors

A Division of Atlantic Drilling Supply, Inc.

2/12/10

207

227

247

267

287



TAMPA BAY
 Largo, Florida
 Phone - 800.752.9416

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54 134
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Set 6" casing to 470'
about in last week work
of march

4/5/10
Set 4" casing at 473'
Set 3" casing at 475'
470
570

4-6-10 Set 480' Core Barrel/ Casing

4-7-10 Core 17.50'

473-488 Sluff from left over
Drilling - Portland Cement

483-488 unbr to Retrieval
Core due to a Jammer barrel
problem

4/8/10 Resolve Jammer Core barrel
Issue Ready to Start Casing
Again but 1st must drain mud
pit in to create Truete 1000 gal.

4/9/10 Finishes 493 core Run
Still in Concrete Adhes 513' Rd
483'-493' Combination Clay and
Portland?

4/10/10 Change of Thought after
Examining Core 478'-488 Dark
Gray Quartz Sand and Clayish mud
with Organic Sulfates

488'-491' Same as Above

491'-498' Same as Above

498'-507' Still Dark Grayish Green
Quartz Sand with Clayish mud with
lots of Sulfates and Organics

507'-508' Same as Above

508'-516' Transition to a Clayish mud
Dark Grayish Green in Color Quartz
Sand and Organics and Sulfates

4/11/10

516'-520'

Transition back to a more Cemented
Clayish mud with Quartz Sand +
Organics and Sulfates Dark Gray
ish Green in Color

520'-524' Same as Above but
This run HAS VUGS?

524'-528' Same as Above

528'-534.50' Changing back to a
Clayish mud with Quartz Sand
and Sulfates and Organics, Dark
Grayish Green in Color. Still Hard

53450'-538' Fine Quartz Sand and
Clayish mud with Sulfate and
organics Dark Grayish Green in
Color

538' — 544'
Same as Above

5/21/10

544'-548'

Much Softer in density, not very much
Quartz Sand more Clayish mud with
organics Dark Grayish Green in Color

548'-558' much Softer in density
not much Quartz Sand more Clayish
mud with Organics Dark Grayish
Green in Color may need to run
3" Core Seen 6

558'-568' Last Soft Gravity run
only was only able to Recover
Last 3' of run. Chatterbox back
to report hard density little new
Quartz Sand and Organics

Still Dark Grayish Green in Color
Clayish mud or Cemented mud

4/22/10

568'-573'

Transition to more Cemented Clay
Rotation pressure Increased down
1000 psi. Dark Grayish Green in
Color

573'-578' Same as Above except

No Rotation pressure. High mud
pressure Skin Cutting, unusual logs
appearing again. Still Dark Grayish
Green in Color

578'-588' Same as Above 573'-578'

4/23/10

588'-592:25 Same as Above 578'-588'
except at Very End of run mud
pressure low possible Change of
Formation

592:25 - 598'

Black Rock and some sort of
mud slugs migrating back to

A clayish mix of mud and organic
light Tan in color with some
~~Dark~~ Dark Grayish Green Clay

558' - 608' 50

Transformation of light Grayish
Tan in color mud stems or a
concretion mud with, some of
Dark Grayish Green Clayish mud,
Black Phosphates, Quartz and Shell
(fine pieces)

602.50 - 608

A soft matrix of Grayish
Tan in color concretion mud with
some of Dark Grayish Green
concretion Clayish mud with Phosphates
and Quartz, Shell pieces (fine)

608' 412'

Grayish Tan in color concretion
mud with some of Dark Grayish
Green in color Clayish mud, Quartz
Phosphates Shell pieces (fine)

4/25/10 Sun

612' - 615.50

light Grayish Tan in color changing
to a softer clayish mud stems or
concretion mud.

615.50 -

Last Sample No Relative Pressure
High mud Pressure. Evidence of
soft, runny, clay in core barrel
catcher.

was able to Retrieve last Sample
from 615.50 - 618' Darker
Tanish Gray in color concretion clay

618' - 622'

Darker Gray in color almost a
Smoked Gray concretion clay migrating
to a softer lighter Green in color clay
migrating to Darker Grayish Tan in
color with concretion mud heavy
organics changing once again in
to a Tan concretion mud with
fine shell pieces and parasite →

phosphates also becoming very
abundant. Concretion mud with
fine shell pieces and organic

622' - 628'

light grayish tan in color soft
Cherty Concretionary Clay Transition
to more hard in density with
somes of soft and organic and
fine shell

628' - 631.25' Same as above
622 - 628' with some

marbling

631.25' - 633'

Dark Grayish Green Concretionary mud
or Concretionary Clay with marbling

5/5/10 Wed pull Core Casing cut 635'
of hole add 5' of 4" casing
and clamp to surface casing
Start installing 3" casing to 630'
40'

5/6/10 Thurs 40' 8" casing

5/7/10 Fri

Finished 3" casing at 630'
628' Land Surface
Start installing Core Barrel Casing
633'

4" casing = 478'

3" casing - 630'

Top of 3" casing 10' - 5' - 1'

5/8 SAT

633' - 638'

Dark Gray in color mud stone
with some marblization

638' - 639'

Softer mud stone or Concretionary
mud, lighter Gray in color

639' - 641'

Stuff from lost Sample Retrieved
from 638' - 639' Changing back to

A new Concretion Formation with
marbling lots of Critters to
643.25

643.25 - 648'

Still Concretion mud stone with
marbling with Critters more of
A Olive Color Gray in Color
Changing to a Softer Clayish mud
Stone or Clay light Olive Gray
in Color

5/9/10 sun

648' - 651'

Tannish Olive in Color Concretion
mud Stone or Concretion mud
Still with a lot of Critters marbling
becoming Dark Olive Gray marbling
in Color

651' - 653'

Still Dark Olive Gray in Color
Concretion mud Stone or Concretion
mud Stone marbled

653' - 658'

Light Tan in Color Concretion mud
Stone or mud Stone with some Imbedded
Phosphates

658' - 663.25' 5/18/10

Loss of Sample plus a muddy
Clayish Quartz Sand had to use standard
Shovel to Retrieve Sample after several
Tries to Retrieve with Regular Shovel
Olive Gray Color becoming more Clayish

663.25 - 668'

Formation changes back to a mud
Stone with no Quartz Sand, lighter
Olive Gray in Color. Very Crumbly

668' - 669.25'

Lighter Olive Gray in Color Clayish
mud Stone, some what Crumbly

669.25 - 674.25' 5/19/10

669.25 - 674.25'

Same as Above Methane Smell
in Retrieval Smell

674.25 - 676.75'

Same as Above but becoming

on Trying to become marbly

676.25 - 678'

Same as Above

5/20/10

678-679.25

Same as Above

(Intermittent
small decaying
possible organisms)

679.25 - 686'

Same as Above with some Fluxion
scars of Hard & Soft and Changing
to a Tannish Gray in Color

686' - 688.25

Still Clayish mud Stone with
some Phosphates Tannish Gray in
Color

5/21/10

688.25 - 690.50'

Tannish Olive Gray in Color mud
stone with some marbling becoming
Clayish also some Phosphates

690.50 - 696.25

Olive Gray in Color Clayish mud

Stone or Concretion mud with
Phosphate

696.25 - 696.50

Same as Above but becoming
more Dense with Phosphates or Organics

696.50' - 698'

Tannish Gray in Color Concretion mud
Stone with Phosphates changing to a
Concretion Clayish mud with marbling

5/22/10

699 - 701.25

Gray in Color Concretion mud
marbly Changing to a Soft
mud

701.25 - 702.25

Last Sample to Soft change
Shows to G. Gondos show to Roten
Last Sample. Roten only half
of what was last Showing with
Soft Concretion mud, becoming soft
mud with Purple and Dark

Gray in color changing back to
a concrete mass stone, last or
wash some of sample away.

707.75 - 710'

Gray in color on Chert Gray
concrete mass stone with some
marbling

710' - 715.75'

Oliver Gray in color concrete
mass or clayish mass with phosphate
or organic

715.75 - 720'

Oliver Gray in color concrete
mass stone with organic & phosphate

5/23/10

720' - 722.50'

Same as Above except
becoming very porous again with
clumps of black rock and crumbly

722.50' - 723.25'



Oliver Gray in color concrete
mass stone very crumbly

723.25 - 733'

Same as Above
becoming very soft and clayish
Tannish white in color with shells
pieces and phosphate loss of sample
towards end of run possible wash
away

733' - 734'

Loss of sample Change of temperature
light tan in color limestone with
very high concentration of salt
water

SALT WATER BEBBLES

6/1/10

Get salt water under central
with nitrogen, shows problem
with Return Circulation mud
is thick & clogging down & turn

6/1/10 Grand gullery, Clear strong
to check bit and turn

Barrel Clarence.

6/3/10

Try to get 3" casing from
unsuccessful. Prepare to run 4"
casing over 3" pull 5' of 4" casing

6/4/10

~~485~~ - 5' = ~~480~~ 470 + 5 + 3 = 478
pull 5' + 10' + 3 = 18 = 460'
480'
500'

6/5/10 Sat

500' - 540' - 560' - 580' - 600'

6/6/10

620' - 630' - 640' - 650' - 660'
Ten foot runs' 10ft 10ft 10ft 10ft

6/7/10

~~670~~ 670' 675' 680'

6/14/10 Mon

Change out 4" sub to 3" sub
and change out Viseo slips to
3" lower 60' of 3" casing
in hole to return 3" casing
last in hole (C) y4 6

6/15/10 Tues

Drill on in 220' of 3"
10 + 15 + 15

6/16/10 Wed

730'
= 10' =

Problem with Inner
Barrel stuck acting up
Hard to return

6/17/10 Thurs

Corro again 5' and only got
2' recovery due to dirty mud in
hole causing Inner barrel to hang
up in hole. Had to jar loose
Barrel by hanging it with
overshot to jar loose causing
some loss of sample

734.75 - 735.50 Sluff from

Interstratified 4" + 3" Casings with
Some light Tan in Color lower Stems

735.50 - 738'

Chalky whitish Tan in color
soft and creamily lustrous

6/18/10 Fri

Chase 3" casing from 730"

6/19/10 Sat

Repacked Junior Barrel / Tray
out of color to retrieve Junior
Barrel

6/20/10

738' - 743'

Clayish Chalky mud Stems
light Tannish Gray in Color

743' - 745.50

Tannish white in Color mud Stems
or Possible lower Stems

745.50 - 747.01

Tannish white in Color mud Stems or
lower Stems migrating to a soft
matrix becoming very crumbly and
then becoming clayish matrix

747.01 - 750'

Tannish white in Color mud Stems
~~lower~~ Some what crumbly and hard
matrix changing back to a soft
clayish matrix of mud Stems or
lower Stems

6/22/10

750' - 753'

light Tannish Gray in Color Chalky
mud Stems or lower Stems some shell pieces

753' - 755'

Same as Above

755' - 757.25

Same as Above but Changing Color
to a Darker Olive Gray in Color

7/2/10

757.25 - 763'

Notes
Bottomless clay
+ 7/18 Problems w/
Junior Barrel
pulling over casing
cut to Refuse
Junior Barrel
lost of casing



more concretions more steno. Olivine
Gray in color with organic

7/3/10

763' - 766.75'

Olive Gray in color Carbonates more
steno becoming marbled

766.75' - 768.50'

Olive color mud steno some what
clayish ~~with~~ some marbled

768.50' - 773'

Same as Above

7/4/10

773' - 777'

Same as Above

777' - 782.50'

Formation same as Above but
becoming a shade more darker and
a little more brittle

7/5/10

782.50' - 787'

Still little change except at
end of run seems to be becoming
lighter in color and a little chunky

7/13/10 Tues

Dark Olive Green mud steno
with some marble 787' - 793'

793' - 798'

Same as Above



798' - 802.50'

Same as Above

802.50' - 803'

Same as Above

7/14/10 wed

803' - 808'

Dark Olive Green in color
concretions more steno crumbly
some marble and phosphates

808' - 813.50'



Salt water
seems to have
stepped

Tannish Olive Green in Color
Granular mud stone becoming
Olive Gray in Color and Crumbly
Some marbles and Phosphates

813.50 - 816.50

Same as Above

816.50 - 818

Color Change and Texture Change
Tannish Gray in Color a grainy mud
stone

818 - 823

Tannish Gray in Color grainy
mud stone

2/15/10 Thur



823 - 826.50

Change in Color Olive Gray mud
stone still grainy Transition to a
Clayish mud stone with Phosphates

826.50 - 828.75

Light Olive Grayish Green in Color

Carbonated mud stone with
some phosphates

828.75 - 833'

Same as Above

833 - 836.25

Same as Above but fragments
and of run seems to be getting
softer and more crumbly

836.25 - 838.75

Same as Above with a little
mud phosphates

838.75 - 843'

A little change mud stone becoming
grainy again and then a distinct
change toward organic and phosphates
and a quick change back to a light
Tannish olive in Color mud stone with
phosphates

843' - 847'

Olive Gray in Color mud stone becoming
softer and crumbly

7/16/70 Fri

847' - 848.25'

Still Translucent Olive Gray in Color
mud Stew with some phosphates
MAR 100

848.25 - 853

Same as Above

853 - 857

Same as Above

857 - 859.25'

Same as Above

859.25 - 863

Same as Above

Change sub to NRQ + NQ

863' - 865.25'

Same as Above mottled

7/18/10

865.25 - 873'

Same as Above

7/20/10

873' - 876.50'

Color Change back to Olive Gray
mud Stew with Phosphates

876.50 - 879.50'

Olive Gray in Color mud Stew
becoming Soft and Brittle

879.50 - 883'

Olive Gray in Color mud Stew
Changing into possible mud Stew

7/28/10

883' - 885.50'

Grainy mud Stew Grayish Tan
in Color with some Phosphates.

885.50 - 890.50'

Grainy mud Stew Changing Back to
a Olive Gray in Color mud Stew
Also Soft and brittle

890.50 - 893'

Olive Gray in Color mud stone
Soft + Brittler

893' - 894.4

Olive Gray in Color mud stone with
some marble texture and some phosphatic

894.4 - 895.2

Same as Above. Some changes
in matrix to a Gray mud stone

898.7 - 899.9

Olive Gray to a Tannish Gray
in Color mud stone.

899.9 - 903'

(Olive Green) mud stone also Gypsum
in Color mud stone

903' - 905'

Olive Green in Color mud stone still
Clayish texture

905' - 909'

Dark olive Green in Color mud
stone with some marble Clayish texture

7/22/10 Thurs 909' - 910.3

Dark Olive Green in Color Clayish
mud stone

910.3' - 913'

Dark Olive Green in Color mud stone
(Clayish)

913' - 918.75'

Dark Olive Green in Color mud
stone (Clayish)

7/30/10

918.75' - 923'

Hard mud stone light Olive
Gray in Color Changing to a
Dark Olive Green in Color Clayish
mud stone.

923' - 924

loss of circulation
→

Dark Olive Green in Color
more Stems Changing to a Amber
Still more Stems Fluid Loss
No Return Possible Flow Zone
924.50 - 927.50

Crystalline Dolomite with Cryst
Still and more Stems

927.50 - 930.25

Olive Brown Dolomite

7/31/10 sat

930.25 - 933'

Cryst Still Bed with Sand / LSS
of ~~Sample~~ some sample possible
wash out

933' - 938

Cryst Still Bed with Clayish
sand Stems on more Stems and Also
Phosphates and becoming very soft

938' - 940.75

Change in Material from Cryst Bed

to a Crystalline mud stone becoming very
soft

940.75 - 943'

Crystalline mud stone marbles
and Fractures and Fossils

943' - 944.50

Crystalline mud stone with some
Still and Fossil. Translucent Gray in Color

944.50 - 948'

Crystalline mud stone becoming
grainy and lots of Phosphates some
Still pieces and Fossil. Dark Translucent
Gray in Color

948' - 953'

Light Translucent Gray in Color
Crystalline mud stone becoming
soft and Fractures with Still and
Fossil some Fine Quartz

7/13/10 Now C&G's Log Hole w/
Alligator & Check 4" casing and
Hole

8/14/10 Rooney

GSU - 786'

Loss of Circulation 765'

8/15/10 Return to 955'

8/16/10 pull rods up to 920'

8/23/10

8/24/10 put well to sleep with
Bullying mud

8/25/10 Logging

1- 967.45

2- 960.46 24

3- 960.24

4- 953-955'

5- 953.35

Fluid + Coliper

~~Caliper~~ Induction

Gamma-SPR

ARE

Full hole from Senec

9/5/10
940 + 10'
960 + 5

3' 937'

9/20/10

960 + 5

9/22/10

980'

Hanging Chaperon and setting on
Drill. rock

9/22/10 873 Chaps to NP

9/23/10

Washed out casing with Heavy
mud Barite 41. mud pressure still high
Although nothing seems to be in casing
will continue to wash out to 953'
Then start casing to see if I can
find Rock to set 3" NW on instead
of pumping Circulate again.

Stop: Talked with Drew. They want
junkline plug. Pull all NP + WRQ
out of hole again. (90')

~~9/24/10~~

10/5/10

$960' - 10' = 950' + 5' = 955' - 2'$
stick up 953' not 960' or 961'

10/5/10

820' - 3" casing

2" Trammis Separator 130' From
Land surface

pull up 80' of 3" casing and 1/2"
fluid in this section. Pull on 130'
of 3" NW 2' exposure 2" Trammis

10/10/10

concrete 2' down inside Trammis
at 130'. Pull on 50' more
and 2" Trammis is connected to
3" NW Collar from

Pull on 95' of 3" casing

Another 230' 3" casing
at 220' 2" casing stick up

230
25

255

955
325

630

3" casing
15' in
4" casing
50' inside

150

5150
150

480

195

200

740

465

240 Bad + Concrete

955
465

490

Good Trammis
560

Lost

560 Bad
Trammis

95
240
200

555

955
555

400

250' Good Trammis
320'

10/24/10

$$400 + 20 + 10 + 10 = 440$$

$$\begin{array}{r} \cancel{711} \quad \cancel{111} \quad 111 \\ + 100 \\ \hline 540 \\ + 100 \\ \hline 640 \\ + 60 \\ \hline 700 \end{array}$$

11/3/10

11/3 Tased Helo at 748' mud
put up mud to pump. Picked off
the Rotivator Picked off at 768'
well 25' then 170' at 16f
Casing picked off with Plastic Taper
and air Clay

$$\begin{array}{r} \text{pulls } 10' \text{ more} + \\ + 170 \\ \hline 220 \\ + 60 \\ \hline 280 \\ + 20 \\ \hline 300 \\ + 20 \\ \hline 320 \\ + 20 \\ \hline 340 \\ + 10 \\ \hline 350 \end{array} \quad \begin{array}{r} +25 \\ 955 \\ -350 \\ \hline 600 \end{array}$$

At 350'
Evidence of
fluffing up bentonite

Back on ground
in 3" casing

11/4/10 1111

$$\begin{array}{r} 375 \\ 40 \\ \hline 415 \\ + 10 \\ \hline 425 \end{array}$$

Fluid Between 225' - 375'

at 425' from Bottom Solid
Bentonite in 3" casing

11/2/10

Tased Helo 35' still water

$$955$$

$$35$$

$$\hline 920$$

$$955$$

$$- 45$$

$$\hline 910$$

11/2/10

Stanton Casing 900' - 903'
Bentonite Cement and PVC

11/2/10

8" Paving Roll o' Not Good

Set NRQ + NO on Bottom of Hkls
CHAS: Down 3" NW 10' + 5' + 2' 17'
920 + 17 = 937'

12/14/10

953' - 958.9? run up in Tallahassee

12/15/10

958.9 - 965'

Olive Gray in Color Muddy Sand Stems
with organics + shell Peces very Soft
Crumbly Printer's Cable 948' 953' - 963'

12/16/10 Triple check on measurements

965 = 966.8 Tooling Problems

Olive Gray in Color Carbonates more
Stems with Upps and Stems of
silty Quartz Sand with organic or
phosphates Flow Zone?

Having Problems Tooling Dan
Barrel Flaming Sands, push up
10' in NO Drill Rods plugging
me off. Almost Sand locking

Introduce Quick tool to
Drilling Fluids to control Slugs
wash out before re-tooling
Iron Barrel

12/17/10

Spent All morning trying
to get PVC out of Iron
Barrel

12/28/10

873 Sub Change in
NRQ to NO
1 hour to start washing out Hkls

Send Hkls Run up inside Core
973 (100') 100' of Sand in Core
873

12/29/10

Core again Lost Circulation
at 970'

12/30/10

973' - Dark Gray in Color with a
Tint of Brown. Coarse + medium Quartz

Sand w/ organics, Phosphates, Possible
Limestones Deposits.

Trip all NP + NRP out of Holo still
have wood Plug and PVC in Casing
Bit.

Try to Core up 4" Casing and Try to
Advance 4" From (680)
(3" at 937')

10/31/10 Fri

Finally out of Sand 980' - 3' stick up
972'.

Sub Charge 863'

11/1/11 Sat

Finished installing NRP + NP
casing cut and Pushed Core Barrel
still no Return

Start Casing at 977' - 983'

Lost ~~Bottom~~ Sample due to Incon
Barrel, not on Wet Bottom. Still
Getting PVC + Wood Plugs

5' pool 13 1/2" - 16" sides

Sun 11/2/11
983' - 993'

Thurs + Fri

pull 360' of 4" HW

320' of In Holo

6" - 490

2" casing

170' still up inside

49' + 5

49

20

00

98

980

985'

983'

2' still up inside
3" casing

PVC casing not to
plug off

1/27/11

pull all 3" 985'

2/01/11

Note Possible Gradation Zone 970'-980'

2/22/11

983'-993' was able to Retrieve Core Sample

Also 3" Core Fall was able to re attach 986' 3" casing

Also Flow between 6+4 Almost Stopped

973'-983'

Loss of Sample due to Advancing 3" casing to Seal of Hoisting Snub

983'-988'

Some stuff combination of Formations light Grey, in color Dolomitized lime stone migrating to a very soft sticky silt bed Dark Brown in color to 993' - 5' = 988 Extra fine Quartz Sand

2/24/11 Thurs.

988'-998'

Brown in color Quartz Sand very fine with organics, shell pieces, coral, Tube worms and very dense mud stone becoming very cemented with fossils then becoming very crumbly 2 formation changes in this run

998'-1003'

Grayish Brown in color Cemented mud stone with organics, fossil molds, shell pieces migrating to a Dark Brown very fine Quartz Sand mud sandy mud stone very sticky lamination with organics, shell pieces, some phosphates. Then changing in to a Cemented carbonate lime stone, fossils also with phosphates.

1003'-1005'

light Grey, in color Cemented lime stone with mollusks and Vugs, Fossil molds with some porosity

1005'-1008'

Same as above

1008-1016

light Gray in Color Carbonates low
stew becoming very confining and
common

2/25/11

1016-1018

Carbonates low stew Some of porous
lity light gray in Color.

1018'-1026'

Starting Change in Consistency some stuff
from previous run. light Gray in Color
Carbonates low stew with Phosphates becoming
very grainy in Texture very low Quartz
Tannish gray in Color Mud Stew with
very fine Quartz and some marbling

1026-1028'

Tannish Gray in Color mud Stew
with very fine Quartz and Organic

1028'-1036'

Tannish Gray Mud Stew Carbonates
possibly silt pieces starting to appear

Then a sudden change in the long
hard low stew with Ugs and silt
pieces and fossil molds light gray in
Color

1036'-1038'

light Gray in Color Cemented low stew
with disalusion and Ugs, fossil molds

1038-1044.50

Same as Above

1044.50-1048

light Gray in Color low stew common
with ~~low stew~~ some porosity, Ugs,
fossil molds Then becoming softer and
clayish mud Stew with fine Quartz
light Gray in Color

1048'-1056'

light Gray in Color very grainy sand
Stew migrating into a Olive Gray
in Color.

1056'-1058'

Olive Gray in Color Sand Stew -

Changing in the mud stone nature
becoming softer lots of Phosphates

1058' - 1065'

Mud Stone Olive Gray in Color
becoming Hard again and more grainy
and Quartz Sand, phosphates. Concentrated
some fossil molds, small pieces seams of organ-
ics

2/26/11 sat

1065' - 1068'

Olive Gray in Color mud Stone Concentrated
with small pieces + fine Quartz. Changing
into light orangey Tan Carbonate limestone
with some Quartz very fine

1068' - 1077'

Tan in Color Carbonate limestone with
seams of Quartz + gravel also some dissection

1077' - 1078'

Tan in Color Carbonate limestone
very grainy

1078' - 1083'

Tan in Color Carbonate limestone
Very Grainy and particularly Concentrated
becoming very soft + Clayey

1083' - 1088'

Whitish Tan in Color Carbonate limestone
stone very soft + Clayey + Cherty
regressing back to a more Concentrated
limestone

1088' - 1089'

Whitish Tan in Color Carbonate
Concentrated limestone very Grainy

1089' - 1093'

Tannish white in Color Grainy limestone

1093' - 1096'

Last Sample due to softness possible
wash away will have to make Adjust-
ment in Relation + mud pressure

1096' - 1098'

Tannish white in Color Very Grainy
limestone becoming soft + Clayey

1098'-1100'

Tannish white Clayish limestone
migrating to harder Graining limestone

1100'-1104'

Grayish Tan in Color or Grayish white

→ 2/27/11

1104'-1107.50'

Tannish white in Color limestone
migrating to a Clayish limestone

1107.50'-1108'

Tannish Grayish white in Color ~~and~~
~~and a bit porous migrating back into a~~
~~much softer~~ Very Soft and Clayish

1108'-1113'

Tannish ~~gray~~ white limestone, Graining
porosity Shells, fossil mold, Organic
migrating to a much softer Crumbly
Crumbly limestone becoming Clayish
at end of run.

1113'-1117'

make adjustment on mud pressure (lower)
and slow Rotation to see if I can Recover

This Five Foot run. Carbonate limestone Tannish
white in Color Very Graining becoming very
Clayish at end of run

1117'-1118'

White in Color Clayish limestone

1118'-1123'

Tannish white in Color Carbonate limestone
Graining becoming Crumbly run slow
with a borrow or disturbance migrating back
to a Whitish Clayish mud stone or limestone

1123'-1127'

Tannish white in Color Carbonate mud stone
or limestone becoming Graining then migrating
to a softer Clayish limestone

1127'-1128'

Whitish Tan Clayish Carbonate mud stone
or limestone

3/8/11

Well, Shallow Flowing up NQ
and net 4" or 3"

3/8/11 Major Flow Zero
1130 - 1140

Loss of Return

Tannish white Graining lime stone
migrating to a much softer Clayish
lime stone on mud stone

1131 - 1137

Tannish white in Color Graining
lime stone hard migrating to a
Commoner lime stone with Vugs & Fossil
molds migrating back to a graining
Crumbley lime stone, becoming Clayish.
Abrupt Change to a Pellicular Commoner
moderate white in Color lime stone
with Vugs, wide Channels, Fossil molds

1137 - 1138

Grayer white in Color Better Commoner
lime stone Vugs Fossil mold, wide Channels

3/9/11

1138 - 1142

Tested water Quality PH 8.0 4.0 ppm
Then Took 600' gal of Drilling Fluid to
Shut well down. Shut Casing again
Tannish white in Color Fracture lime

stone migrating to a soft Tannish white
in Color lime stone on mud stone

1142 - 1144

A Change back to a whitish Gray in Color
Commoner lime stone with wider Fractures
with mineral deposits migrating to a softer
Chalky lime stone

1144 - 1148

much more softer but Commoner lime stone
Very Crumbly with some of softer Chalky
lime stone migrating back to a harder
lime stone

1148 - 1153

Crumbley whitish Gray in Color lime
stone Commoner with Vugs also
become Crumbly

1153 - 1158

Whitish Gray in Color lime stone Commoner
Some what Crumbly with Fossil molds
Vugs, wide Channels migrating to a Graining
lime stone, Fossil molds, vugs becoming soft
and Chalky or Clayish

1158'-1161'

A change back to a Concretion limestone
Whitish Gray in Color Vugs, Fossil molds. Very
Fractured

1161'-1168'

Crumbley limestone, A seam of soft clayish
limestone Graining ~~to~~ Whitish Gray in Color
migrating to a more Concretion limestone
lots of Vugs, Fossil molds,

3/11/11 Still no return of Circulation

1168'-1173' Another Flow Zone had
to express well flow Soft Fine Grained
Combination of Graining mud Stone light
Gray in Color

1173'-1178'

Crumbley light Gray in Color Concretion
mud stone with large Vugs Fossil molds
under Channals Strong Flow from this
Depth

1178'-1183'

Poorly Concretion mud Stone Fractured

light gray in Color migrating to a Whitish
Tan limestone in Carbonate mud stone
on limestone

1183'-1185'

Well Flow has Sheppard
Change of Formation, Whitish Tan
in Color Soft Concretion Carbonate
limestone with Vugs, Fossil molds

1185'-1188'

Well Flow has Sheppard
light Tanish Gray in Color Soft Concretion
Carbonate mud stone on limestone
Graining, Vugs, Fossil molds. Must be cut
of Flow Zone

3/12/11

1188'-1193'

Tanish ^{color} Whitish Carbonate mud stone with
Vugs, large under Channals migrating to a
Graining mud stone becoming Clayish and Crumpley

1193'-1194'

Same as Above

1194' - 1198'

Tannish white in color Carbonate mudstone
becoming more Grainy and Crumbly

4/19/11 TUES

Notes 3" casing 986'

1203'

1213' casing 1198' To land surface

1198' - 1201.75'

Tannish white Carbonate lime stone
with Vugs Dissolution of Shell

1201.75 - 1208'

Tannish white, in color Carbonate lime
stone with Vugs becoming Very Grainy
Tan in color migrating back to a
whitish Gray in color limestone
with Vugs and Fossil molds

4/20/11 WED

1208' - 1218'

Mixture of Hard + Soft Carbonate
lime stone, Grainy, Tan in color, Vugs
Some Fossil molds

1218' - 1218.50

Tan in color Carbonate lime stone

1218.50 - 1221

Tannish Gray in color lime stone becoming
Vugs, Fossil molds towards 1221'

Major Flow Zone II

1221' - 1228'

Tannish Gray in color lime stone
Some what Grainy, Crumbly, Fossil
molds, Vugs

1228' - 1238'

Whitish Gray in color Grainy lime stone
with Vugs + Fossil molds Some possible
organics towards 1238' yet well to deep
Major Flow still

4/21/11 THURS 1238' - 1248'

Whitish Gray in color limestone with Vugs
Fossil molds migrating to a Tan in color
Grainy lime stone with Vugs some of
organics migrating back to a whitish Gray
in color limestone with Shell pieces Vugs
Fossil molds migrating back to a Tannish
white in color lime stone limestone

1245' - 1255'

Tanish Gray in Coker limestone/mud stone
Vugs, Fossil holder Dissolution migrating to
a whitish Gray in Coker limestone/mud stone
with Vugs, migrating back to a Tanish
Gray in Coker mud stone with some of
organic. Very large Vugs possible flow
Zones in this run. A lot of changes in
this run Combination limestone and
Carbonate mud stone.

1258' - 1268'

Dark Tan in Coker mud stone Graying
with some of organics migrating to
a sequence of Graying mud stone with
Phosphates with some of organics,
again, Phosphates showing up again at
end of run.

1268' - 1278'

Tan in Coker Graying mud stone with
possible Dolomite pieces, some of organics
possible combination Carbonate mud stone on
limestone

4/22/11

1278' - 1288'

Tan in Coker mud stone Graying
with Dolomite pieces with
stains of organics, migrating back
to a Graying mud stone

1288' - 1298'

Mineralized Tan + Gray in Coker mud
stone some of organics, pieces of Dolomite
stone, Fossil holder, Vugs, becoming very wuggy
towards end of run.

1298' - 1308'

light Tan in Coker Graying mud stone
Smother in texture with some of organics

1303' - 1306'

Tan + Dark Gray marbles becoming laminated
with organic some crystallized + Graying
some vugs

1306' - 1307:50

Gray in Coker mud stone Crystallized
stone what Graying

4/26/11

Gamma Ray

Caliper

AVI

Fluid

4" casing 358' land surface
360' top of 10"
casing

2007 F550

WIK
557051

850

54348
533