

Bit Run #1/ #2
12.25"
Tricone/ 17.5"
Tricone
S/N: PT3306/
H2445
In: 5.62m
Out: 23.27m
Bit Hrs: 2.00/
0:25

13-3/8"
Casing shoe
@ 23.27 mMDRT

13 June 2015
23.27 mMD

Bit Run #3
12.25"
Hammer
S/N: 1163
In: 23.27m
Out: 133.78m
Bit Hrs: 16.75

14 June 2015
90.33 mMD

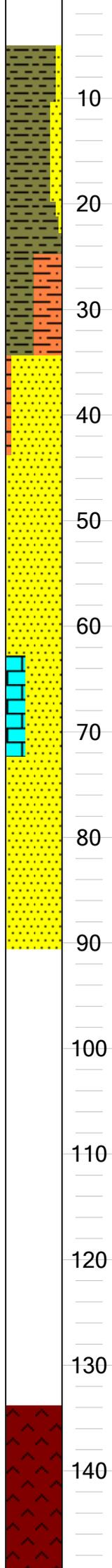
9-5/8"
Casing shoe
@ 130.78
mMDRT

15 June 2015
133.78 mMD

18 June 2015
136.78 mMD

19 June 2015
146.84 mMD

Bit Run #4
8.5" Tricone
S/N: PA7292



**Tarlee-1 spudded
@ 17:00 hrs on 10 June 2015**

CLAYSTONE: Light brown, very pale orange, pale yellowish orange, dominantly firm, trace hard, amorphous to sub blocky, non calcareous.

SANDSTONE: Pale to dark yellowish orange, light brown, generally clear, translucent to transparent, dominantly loose quartz grains, occasionally friable aggregates, fine to medium grain, well sorted, sub rounded to rounded, locally sub angular, subspherical to spherical, poor inferred porosity, no show.

**Drilled 12-1/4" section with air drilling
@ 02:00 hrs on 13 June 2015**

CLAYSTONE: Pale yellowish orange, light brown, very pale orange, dominantly hard, amorphous to sub blocky, non calcareous.

SILTSTONE: Pale red purple, soft to firm, amorphous, non calcareous.

SANDSTONE: Pale to dark yellowish orange, light brown, generally clear, translucent to transparent, dominantly loose quartz grains, occasionally friable aggregates, fine to medium grain, well sorted, sub rounded to rounded, poor inferred porosity, no show.

SANDSTONE: Dominantly loose quartz, clear, translucent to transparent, locally pale to dark yellowish orange, trace light brown, rounded to sub-rounded, spherical, poor to medium sorted, no cement, inferred porosity, no shows.

LIMESTONE/ SANDY LIMESTONE: mudstone to grainstone, generally greenish, locally light grey to medium grey, generally firm, trace hard, sub-blocky, no visible porosity, dull yellow mineral fluorescence, no shows.

SANDSTONE: Predominantly loose quartz, clear, translucent to transparent, locally pale to dark yellowish orange, Dominantly medium to coarse, trace fine grained, rounded to sub-rounded, spherical, well sorted, no cement, inferred porosity, no shows.

**Well Pack off at 81.66mMD
POOH to change BHA**

SANDSTONE: Dominantly loose quartz, clear, translucent to transparent, locally pale to dark yellowish orange, trace light brown, Dominantly coarse to very coarse, locally medium, trace fine grained, rounded to sub-rounded, spherical, poor to medium sorted, no cement, inferred porosity, no shows.

No Return/No Sample from 90.34 mMD to 133.78 mMD

ANTRIM BASALT?

**Drilled 8-1/2" section with water
@ 20:30 hrs on 18 June 2015**

BASALT: Blackish red, very dark red, dusky green, moderately hard to hard, compact, non-calcareous

**Drilled 8-1/2" section with Air
@ 08:40 hrs on 19 June 2015**

BASALT: Generally dark reddish brown, dusky red, locally brownish grey, trace blackish red, dusky green, generally moderately hard, trace firm, compact, generally calcite crystals, locally Pyroxene phenocryst, non-calcareous.

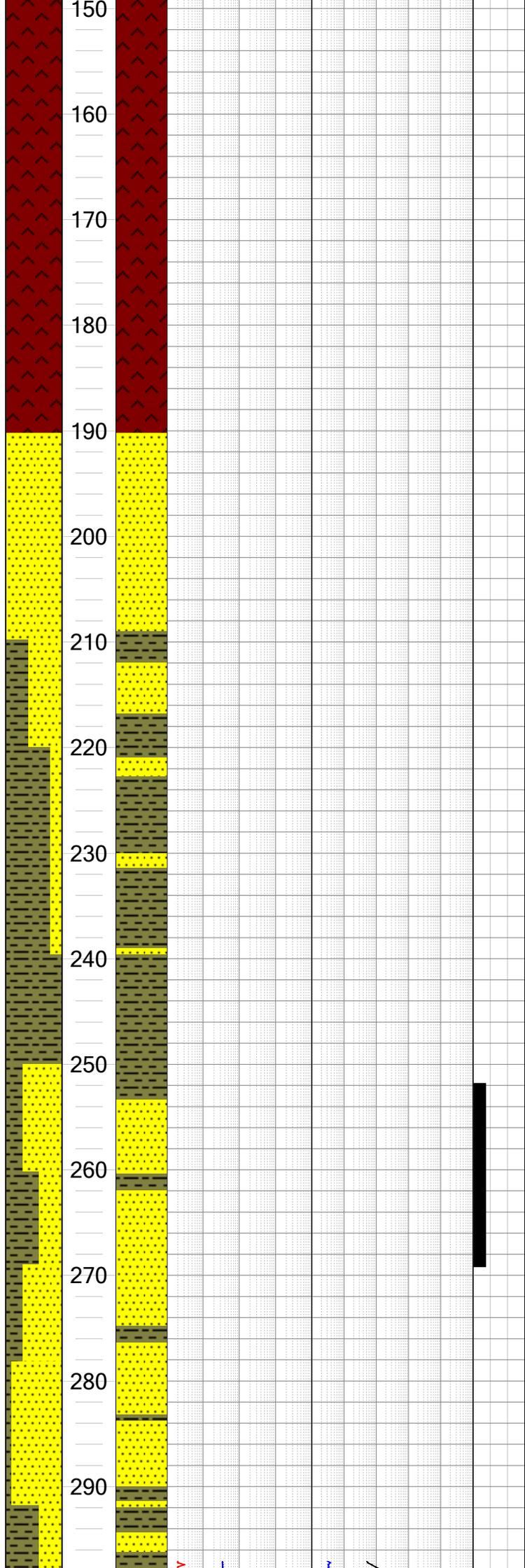
Bit Run #1
 8.5" Hammer
 S/N: -
 In: 133.78m
 Out: 136.68m
 Bit Hrs: 2.3

Bit Run #5
 8.5" Hammer
 S/N: -
 In: 136.78m
 Out: 146.84m
 Bit Hrs: 0.7

Bit Run #5RR1
 8.5" Hammer
 S/N: -
 In: 146.84m
 Out: 292.0m
 Bit Hrs: 14.00

21 June 2015
 245.00 mMD

Bit Run #6
 8.5" Tricone
 S/N: 5251054
 In: 292.0m
 Out: 590.0m
 Bit Hrs: 46.6



Resume drilled 8-1/2" section with Air @ 13:00 hrs on 21 June 2015

BASALT: Generally blackish red, dusky green, brownish black, locally dark reddish brown, dusky red, generally hard to very hard, trace firm, compact, generally Calcite crystals, Pyroxene phenocryst, trace Pyrite, non-calcareous.

BASALT: Generally brown blackish red, dusky green, brownish black, locally dark reddish brown, dusky red, generally hard to very hard, commonly Calcite crystals, Pyroxene phenocryst, trace Pyrite.

BASALT: Predominantly dusky green, blackish red, brownish black, locally dark reddish brown, dusky red, generally hard to very hard, commonly Calcite crystals, Pyroxene phenocryst, trace Pyrite.

BASALT: Generally blackish red, dusky green, brownish black, locally dark reddish brown, dusky red, generally hard to very hard, commonly Calcite crystals, Pyroxene phenocryst, trace Pyrite.

SANDSTONE: Commonly yellowish grey to pale yellowish brown, clear, commonly translucent to occasionally transparent, medium to coarse Quartz grained, sub rounded to rounded, well sorting, very commonly loose Quartz, commonly moderately hard to hard consolidated with calcareous matrix, friable, rarely silty in part, trace Limestone fragment, poorly infer porosity. No oil show.

SANDSTONE: Commonly light brown, occasionally yellowish grey to pale yellowish brown, clear, commonly translucent to occasionally transparent, medium to coarse Quartz grained, sub rounded to rounded, well sorting, very commonly loose Quartz, commonly moderately hard to hard consolidated with calcareous matrix, friable, rarely silty in part, trace Limestone fragment, poorly infer porosity. No oil show.

Start record on database from 222.0 mMDRT except WOB parameter still missing

CLAYSTONE: Generally dark blue, reddish marron, firm to moderately hard, occasionally hard, sub blocky to blocky, occasional platy, non to slightly calcareous, trace to very common of silty in part, trace to common micro Pyrite, trace of Pyroxene phenocryst.

SANDSTONE: Commonly moderate orange pink, light brown, occasionally yellowish grey to pale yellowish brown, clear, commonly translucent to occasionally transparent, medium to coarse Quartz grained, occasionally fine grained, sub rounded to rounded, moderately to well sorting, very commonly loose Quartz, commonly moderate hard to hard consolidated with calcareous matrix and rarely moderate hard argillaceous cement, friable, rarely to commonly silty in part, trace Limestone fragment, poorly infer porosity. No oil show.

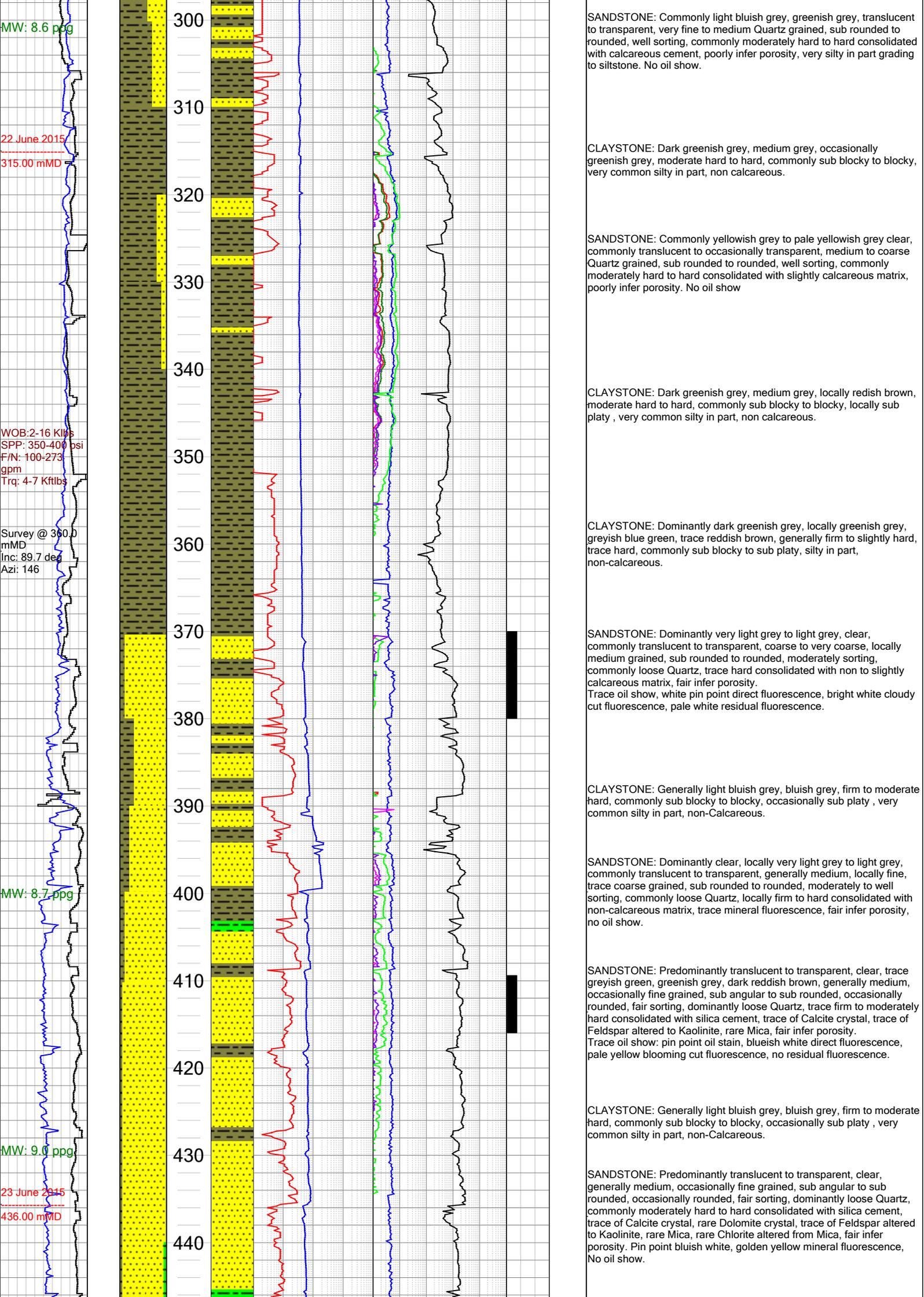
CLAYSTONE: Generally dark blue, locally reddish maroon, firm to moderately hard, occasionally hard, sub blocky to blocky, occasional platy, non to slightly calcareous, trace to very common of silty in part.

SANDSTONE: Commonly yellowish grey to pale yellowish brown, clear, commonly translucent to occasionally transparent, medium to coarse Quartz grained, sub rounded to rounded, well sorting, very commonly loose Quartz, commonly moderately hard to hard consolidated with calcareous matrix, friable, rarely silty in part, trace Limestone fragment, fair infer porosity. Trace oil show, white pin point direct fluorescence, bright white cloudy cut fluorescence, pale white residual fluorescence.

CLAYSTONE: Generally dark blue, locally reddish maroon, firm to moderately hard, occasionally hard, sub blocky to blocky, non to slightly calcareous, trace to very common of silty in part.

SANDSTONE: Commonly yellowish grey to pale yellowish brown, clear, commonly translucent to occasionally transparent, medium to coarse Quartz grained, sub rounded to rounded, well sorting, commonly moderately hard to hard consolidated with calcareous matrix, poorly infer porosity. No oil show.

Resume drilled 8-1/2" section with Mud @ 19:30 hrs on 22 June 2015



MW: 8.6 ppg

22 June 2015

315.00 mMD

WOB: 2-16 Klbs
SPP: 350-400 psi
F/N: 100-273 gpm
Trq: 4-7 Kftlbs

Survey @ 360.0 mMD
Inc: 89.7 deg
Azi: 146

MW: 8.7 ppg

MW: 9.0 ppg

23 June 2015

436.00 mMD

300
310
320
330
340
350
360
370
380
390
400
410
420
430
440

SANDSTONE: Commonly light bluish grey, greenish grey, translucent to transparent, very fine to medium Quartz grained, sub rounded to rounded, well sorting, commonly moderately hard to hard consolidated with calcareous cement, poorly infer porosity, very silty in part grading to siltstone. No oil show.

CLAYSTONE: Dark greenish grey, medium grey, occasionally greenish grey, moderate hard to hard, commonly sub blocky to blocky, very common silty in part, non calcareous.

SANDSTONE: Commonly yellowish grey to pale yellowish grey clear, commonly translucent to occasionally transparent, medium to coarse Quartz grained, sub rounded to rounded, well sorting, commonly moderately hard to hard consolidated with slightly calcareous matrix, poorly infer porosity. No oil show

CLAYSTONE: Dark greenish grey, medium grey, locally reddish brown, moderate hard to hard, commonly sub blocky to blocky, locally sub platy , very common silty in part, non calcareous.

CLAYSTONE: Dominantly dark greenish grey, locally greenish grey, greyish blue green, trace reddish brown, generally firm to slightly hard, trace hard, commonly sub blocky to sub platy, silty in part, non-calcareous.

SANDSTONE: Dominantly very light grey to light grey, clear, commonly translucent to transparent, coarse to very coarse, locally medium grained, sub rounded to rounded, moderately sorting, commonly loose Quartz, trace hard consolidated with non to slightly calcareous matrix, fair infer porosity. Trace oil show, white pin point direct fluorescence, bright white cloudy cut fluorescence, pale white residual fluorescence.

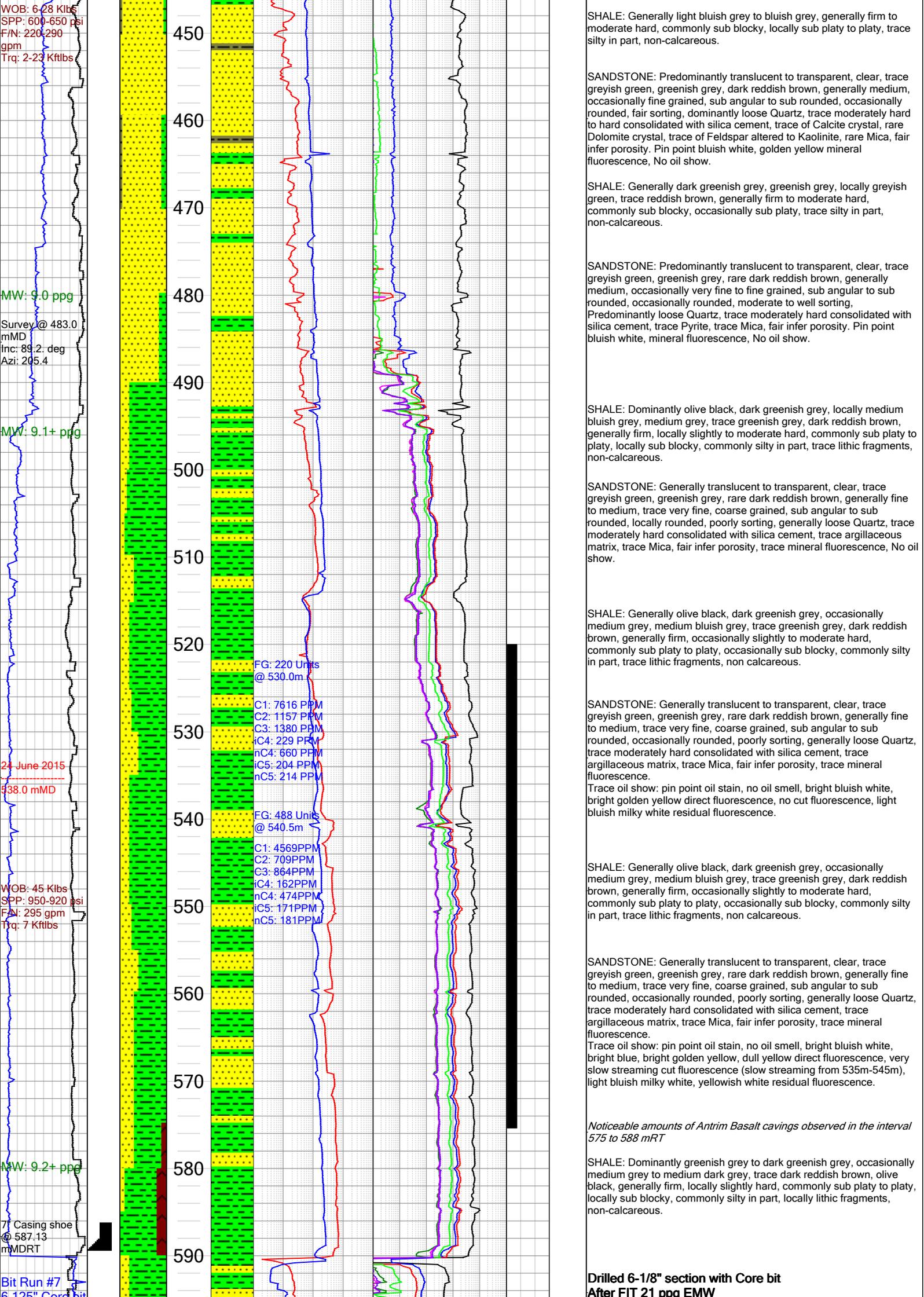
CLAYSTONE: Generally light bluish grey, bluish grey, firm to moderate hard, commonly sub blocky to blocky, occasionally sub platy , very common silty in part, non-Calcareous.

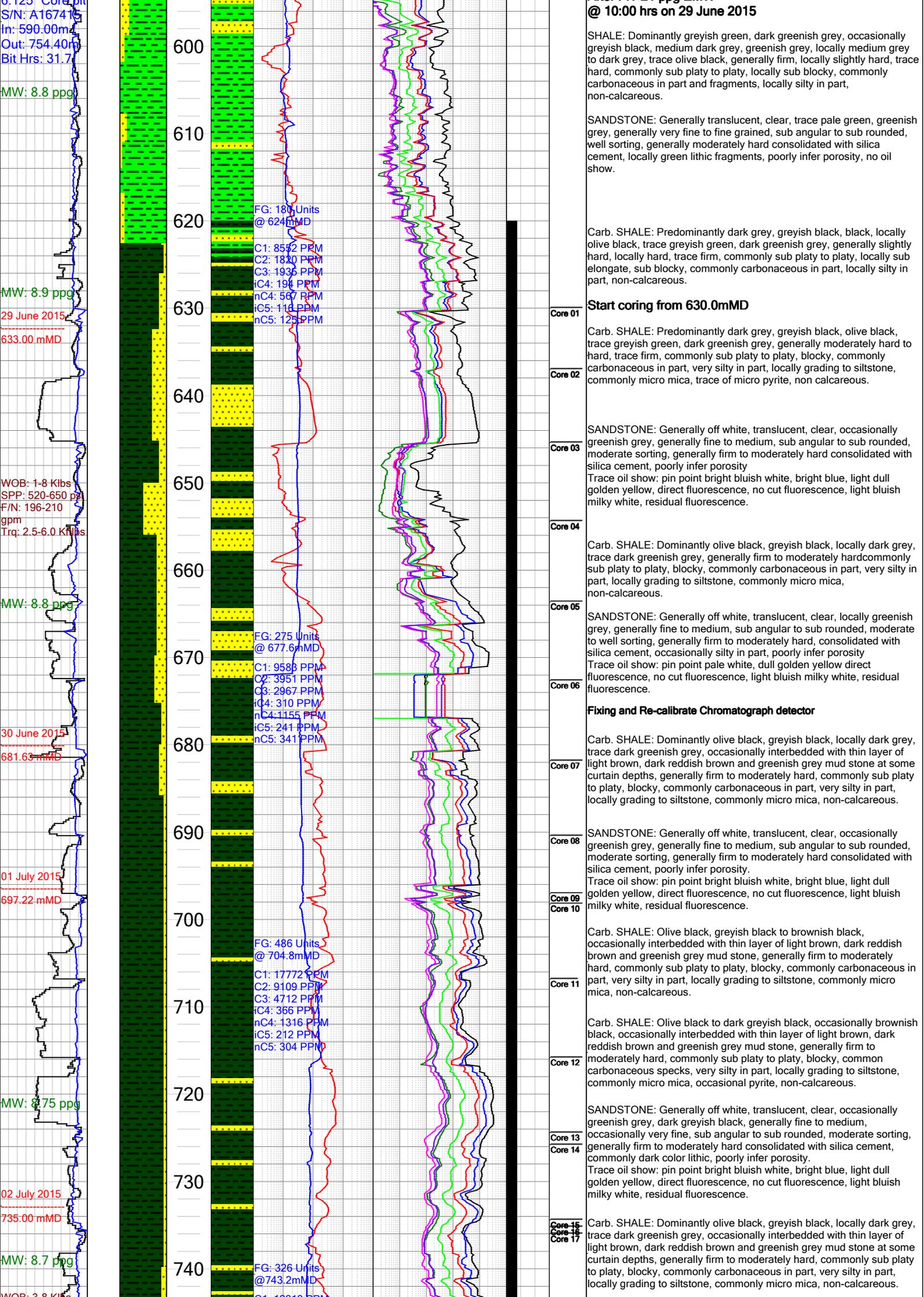
SANDSTONE: Dominantly clear, locally very light grey to light grey, commonly translucent to transparent, generally medium, locally fine, trace coarse grained, sub rounded to rounded, moderately to well sorting, commonly loose Quartz, locally firm to hard consolidated with non-calcareous matrix, trace mineral fluorescence, fair infer porosity, no oil show.

SANDSTONE: Predominantly translucent to transparent, clear, trace greyish green, greenish grey, dark reddish brown, generally medium, occasionally fine grained, sub angular to sub rounded, occasionally rounded, fair sorting, dominantly loose Quartz, trace firm to moderately hard consolidated with silica cement, trace of Calcite crystal, trace of Feldspar altered to Kaolinite, rare Mica, fair infer porosity. Trace oil show: pin point oil stain, blueish white direct fluorescence, pale yellow blooming cut fluorescence, no residual fluorescence.

CLAYSTONE: Generally light bluish grey, bluish grey, firm to moderate hard, commonly sub blocky to blocky, occasionally sub platy , very common silty in part, non-Calcareous.

SANDSTONE: Predominantly translucent to transparent, clear, generally medium, occasionally fine grained, sub angular to sub rounded, occasionally rounded, fair sorting, dominantly loose Quartz, commonly moderately hard to hard consolidated with silica cement, trace of Calcite crystal, rare Dolomite crystal, trace of Feldspar altered to Kaolinite, rare Mica, rare Chlorite altered from Mica, fair infer porosity. Pin point bluish white, golden yellow mineral fluorescence, No oil show.



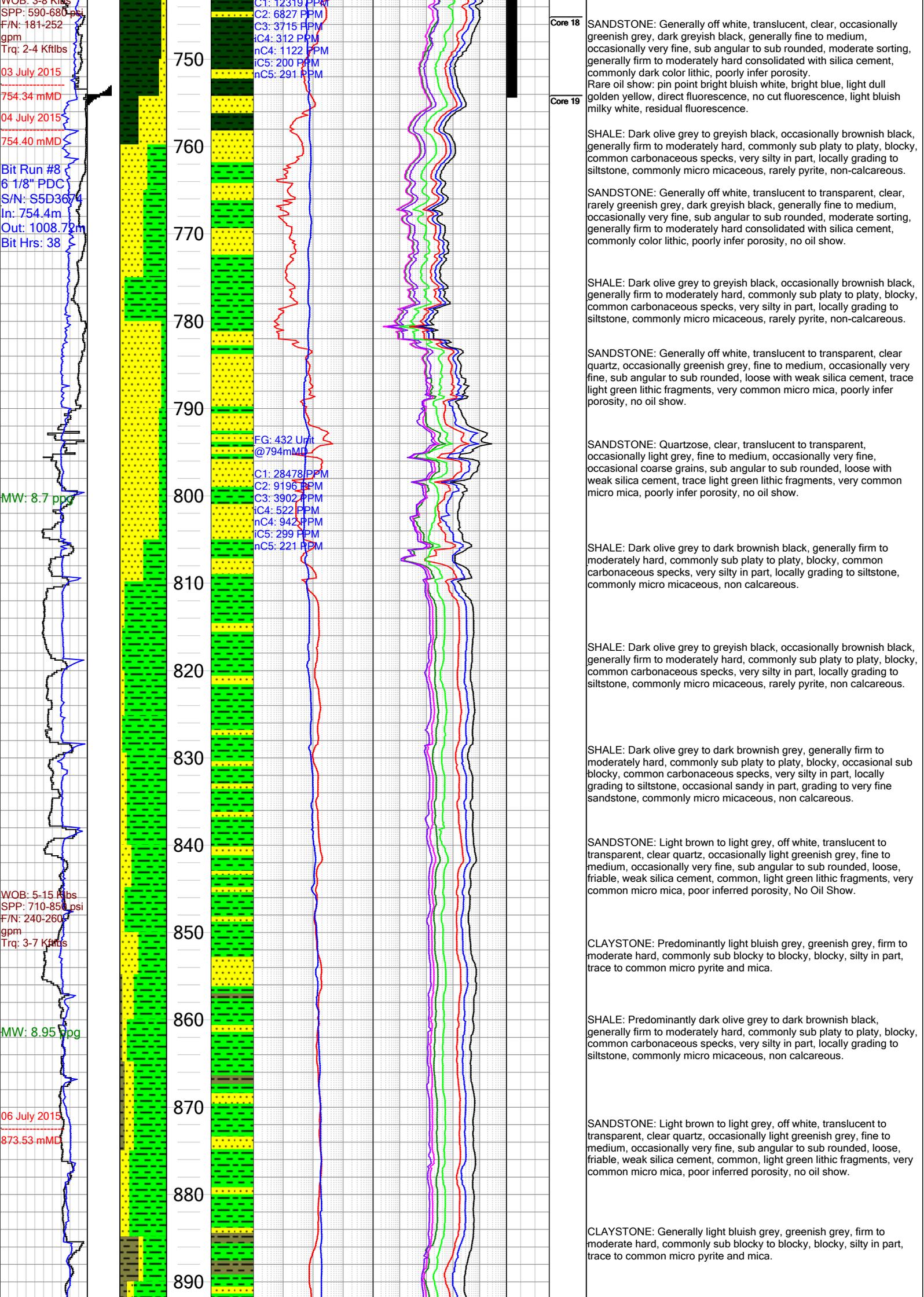


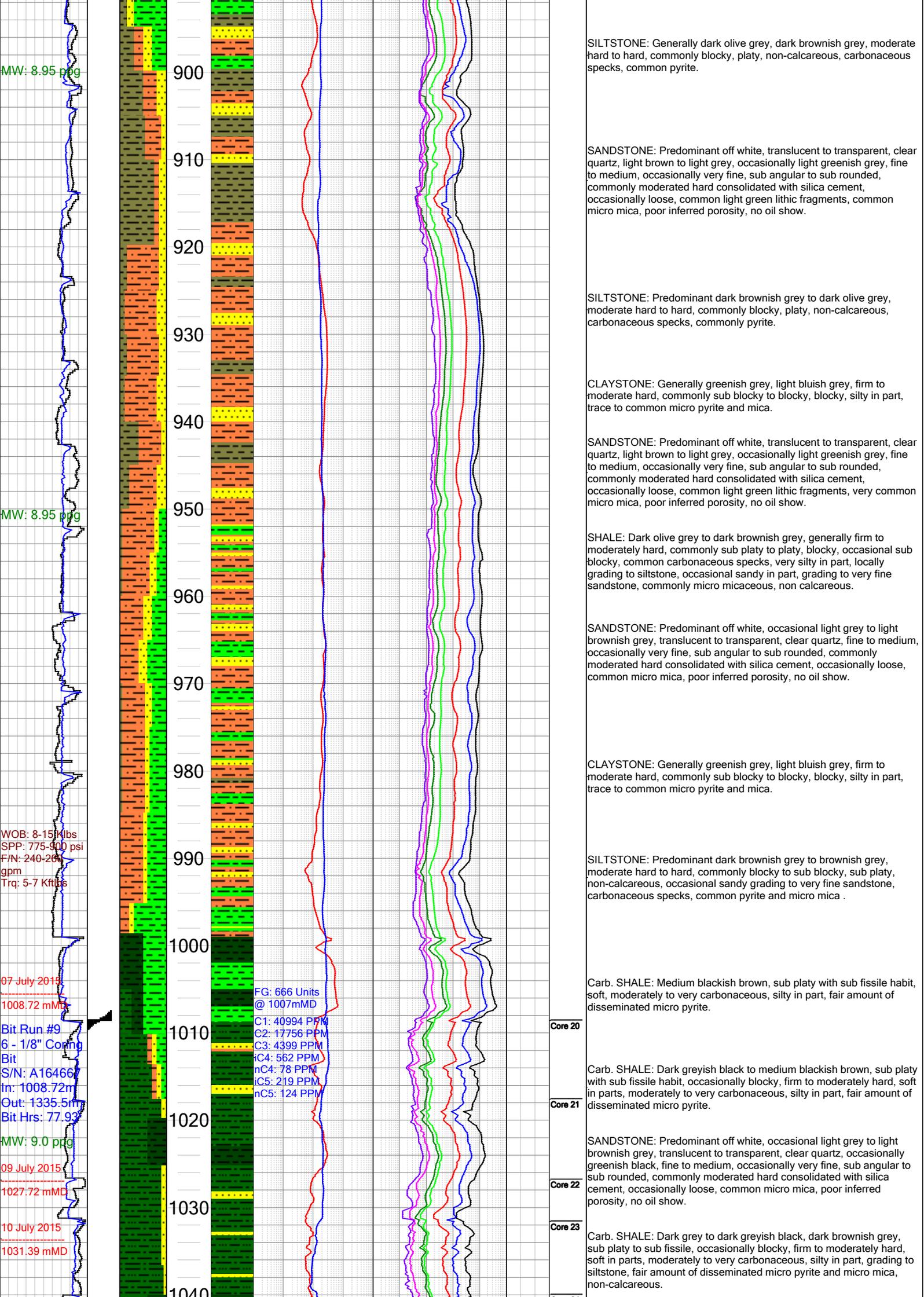
Core 123
 S/N: A167415
 In: 590.00m
 Out: 754.40m
 Bit Hrs: 31.7
 MW: 8.8 ppg
 MW: 8.9 ppg
 29 June 2015
 633.00 mMD
 WOB: 1-8 Klbs
 SPP: 520-650 pps
 F/N: 196-210
 gpm
 Trq: 2.5-6.0 Kftlbs
 MW: 8.8 ppg
 30 June 2015
 681.63 mMD
 01 July 2015
 697.22 mMD
 MW: 8.75 ppg
 02 July 2015
 735.00 mMD
 MW: 8.7 ppg
 WOB: 3.8 Klbs

600
610
620
630
640
650
660
670
680
690
700
710
720
730
740

FG: 180 Units
 @ 624.6mMD
 C1: 8592 PPM
 C2: 1820 PPM
 C3: 1936 PPM
 iC4: 194 PPM
 nC4: 567 PPM
 iC5: 118 PPM
 nC5: 125 PPM
 FG: 275 Units
 @ 677.6mMD
 C1: 9588 PPM
 C2: 3951 PPM
 C3: 2967 PPM
 iC4: 310 PPM
 nC4: 1155 PPM
 iC5: 241 PPM
 nC5: 341 PPM
 FG: 486 Units
 @ 704.8mMD
 C1: 17772 PPM
 C2: 9109 PPM
 C3: 4712 PPM
 iC4: 366 PPM
 nC4: 1316 PPM
 iC5: 212 PPM
 nC5: 304 PPM
 FG: 326 Units
 @ 743.2mMD

@ 10:00 hrs on 29 June 2015
 SHALE: Dominantly greyish green, dark greenish grey, occasionally greyish black, medium dark grey, greenish grey, locally medium grey to dark grey, trace olive black, generally firm, locally slightly hard, trace hard, commonly sub platy to platy, locally sub blocky, commonly carbonaceous in part and fragments, locally silty in part, non-calcareous.
 SANDSTONE: Generally translucent, clear, trace pale green, greenish grey, generally very fine to fine grained, sub angular to sub rounded, well sorting, generally moderately hard consolidated with silica cement, locally green lithic fragments, poorly infer porosity, no oil show.
 Carb. SHALE: Predominantly dark grey, greyish black, black, locally olive black, trace greyish green, dark greenish grey, generally slightly hard, locally hard, trace firm, commonly sub platy to platy, locally sub elongate, sub blocky, commonly carbonaceous in part, locally silty in part, non-calcareous.
Start coring from 630.0mMD
 Core 01
 Carb. SHALE: Predominantly dark grey, greyish black, olive black, trace greyish green, dark greenish grey, generally moderately hard to hard, trace firm, commonly sub platy to platy, blocky, commonly carbonaceous in part, very silty in part, locally grading to siltstone, commonly micro mica, trace of micro pyrite, non calcareous.
 Core 02
 SANDSTONE: Generally off white, translucent, clear, occasionally greenish grey, generally fine to medium, sub angular to sub rounded, moderate sorting, generally firm to moderately hard consolidated with silica cement, poorly infer porosity
 Trace oil show: pin point bright bluish white, bright blue, light dull golden yellow, direct fluorescence, no cut fluorescence, light bluish milky white, residual fluorescence.
 Core 03
 Core 04
 Carb. SHALE: Dominantly olive black, greyish black, locally dark grey, trace dark greenish grey, generally firm to moderately hard commonly sub platy to platy, blocky, commonly carbonaceous in part, very silty in part, locally grading to siltstone, commonly micro mica, non-calcareous.
 Core 05
 SANDSTONE: Generally off white, translucent, clear, locally greenish grey, generally fine to medium, sub angular to sub rounded, moderate to well sorting, generally firm to moderately hard, consolidated with silica cement, occasionally silty in part, poorly infer porosity
 Trace oil show: pin point pale white, dull golden yellow direct fluorescence, no cut fluorescence, light bluish milky white, residual fluorescence.
 Core 06
Fixing and Re-calibrate Chromatograph detector
 Core 07
 Carb. SHALE: Dominantly olive black, greyish black, locally dark grey, trace dark greenish grey, occasionally interbedded with thin layer of light brown, dark reddish brown and greenish grey mud stone at some curtain depths, generally firm to moderately hard, commonly sub platy to platy, blocky, commonly carbonaceous in part, very silty in part, locally grading to siltstone, commonly micro mica, non-calcareous.
 Core 08
 SANDSTONE: Generally off white, translucent, clear, occasionally greenish grey, generally fine to medium, sub angular to sub rounded, moderate sorting, generally firm to moderately hard consolidated with silica cement, poorly infer porosity.
 Trace oil show: pin point bright bluish white, bright blue, light dull golden yellow, direct fluorescence, no cut fluorescence, light bluish milky white, residual fluorescence.
 Core 09
 Core 10
 Carb. SHALE: Olive black, greyish black to brownish black, occasionally interbedded with thin layer of light brown, dark reddish brown and greenish grey mud stone, generally firm to moderately hard, commonly sub platy to platy, blocky, commonly carbonaceous in part, very silty in part, locally grading to siltstone, commonly micro mica, non-calcareous.
 Core 11
 Carb. SHALE: Olive black to dark greyish black, occasionally brownish black, occasionally interbedded with thin layer of light brown, dark reddish brown and greenish grey mud stone, generally firm to moderately hard, commonly sub platy to platy, blocky, commonly carbonaceous specks, very silty in part, locally grading to siltstone, commonly micro mica, occasional pyrite, non-calcareous.
 Core 12
 SANDSTONE: Generally off white, translucent, clear, occasionally greenish grey, dark greyish black, generally fine to medium, occasionally very fine, sub angular to sub rounded, moderate sorting, generally firm to moderately hard consolidated with silica cement, commonly dark color lithic, poorly infer porosity.
 Trace oil show: pin point bright bluish white, bright blue, light dull golden yellow, direct fluorescence, no cut fluorescence, light bluish milky white, residual fluorescence.
 Core 13
 Core 14
 Core 15
 Core 16
 Core 17
 Carb. SHALE: Dominantly olive black, greyish black, locally dark grey, trace dark greenish grey, occasionally interbedded with thin layer of light brown, dark reddish brown and greenish grey mud stone at some curtain depths, generally firm to moderately hard, commonly sub platy to platy, blocky, commonly carbonaceous in part, very silty in part, locally grading to siltstone, commonly micro mica, non-calcareous.





MW: 8.95 ppg

900

SILTSTONE: Generally dark olive grey, dark brownish grey, moderate hard to hard, commonly blocky, platy, non-calcareous, carbonaceous specks, common pyrite.

910

SANDSTONE: Predominant off white, translucent to transparent, clear quartz, light brown to light grey, occasionally light greenish grey, fine to medium, occasionally very fine, sub angular to sub rounded, commonly moderated hard consolidated with silica cement, occasionally loose, common light green lithic fragments, common micro mica, poor inferred porosity, no oil show.

920

SILTSTONE: Predominant dark brownish grey to dark olive grey, moderate hard to hard, commonly blocky, platy, non-calcareous, carbonaceous specks, commonly pyrite.

930

CLAYSTONE: Generally greenish grey, light bluish grey, firm to moderate hard, commonly sub blocky to blocky, blocky, silty in part, trace to common micro pyrite and mica.

940

SANDSTONE: Predominant off white, translucent to transparent, clear quartz, light brown to light grey, occasionally light greenish grey, fine to medium, occasionally very fine, sub angular to sub rounded, commonly moderated hard consolidated with silica cement, occasionally loose, common light green lithic fragments, very common micro mica, poor inferred porosity, no oil show.

MW: 8.95 ppg

950

SHALE: Dark olive grey to dark brownish grey, generally firm to moderately hard, commonly sub platy to platy, blocky, occasional sub blocky, common carbonaceous specks, very silty in part, locally grading to siltstone, occasional sandy in part, grading to very fine sandstone, commonly micro micaceous, non calcareous.

960

SANDSTONE: Predominant off white, occasional light grey to light brownish grey, translucent to transparent, clear quartz, fine to medium, occasionally very fine, sub angular to sub rounded, commonly moderated hard consolidated with silica cement, occasionally loose, common micro mica, poor inferred porosity, no oil show.

970

CLAYSTONE: Generally greenish grey, light bluish grey, firm to moderate hard, commonly sub blocky to blocky, blocky, silty in part, trace to common micro pyrite and mica.

980

WOB: 8-15 Klbs
SPP: 775-900 psi
F/N: 240-290 gpm
Trq: 5-7 Kftlbs

990

SILTSTONE: Predominant dark brownish grey to brownish grey, moderate hard to hard, commonly blocky to sub blocky, sub platy, non-calcareous, occasional sandy grading to very fine sandstone, carbonaceous specks, common pyrite and micro mica .

1000

FG: 666 Units @ 1007mMD
C1: 40994 PPM
C2: 17756 PPM
C3: 4399 PPM
nC4: 562 PPM
nC5: 219 PPM
nC5: 124 PPM

Core 20

Carb. SHALE: Medium blackish brown, sub platy with sub fissile habit, soft, moderately to very carbonaceous, silty in part, fair amount of disseminated micro pyrite.

07 July 2015

1008.72 mMD

Bit Run #9
6 - 1/8" Coring Bit
S/N: A164667
In: 1008.72m
Out: 1335.5m
Bit Hrs: 77.93

1010

Core 21

Carb. SHALE: Dark greyish black to medium blackish brown, sub platy with sub fissile habit, occasionally blocky, firm to moderately hard, soft in parts, moderately to very carbonaceous, silty in part, fair amount of disseminated micro pyrite.

MW: 9.0 ppg

1020

Core 22

SANDSTONE: Predominant off white, occasional light grey to light brownish grey, translucent to transparent, clear quartz, occasionally greenish black, fine to medium, occasionally very fine, sub angular to sub rounded, commonly moderated hard consolidated with silica cement, occasionally loose, common micro mica, poor inferred porosity, no oil show.

09 July 2015

1027.72 mMD

1030

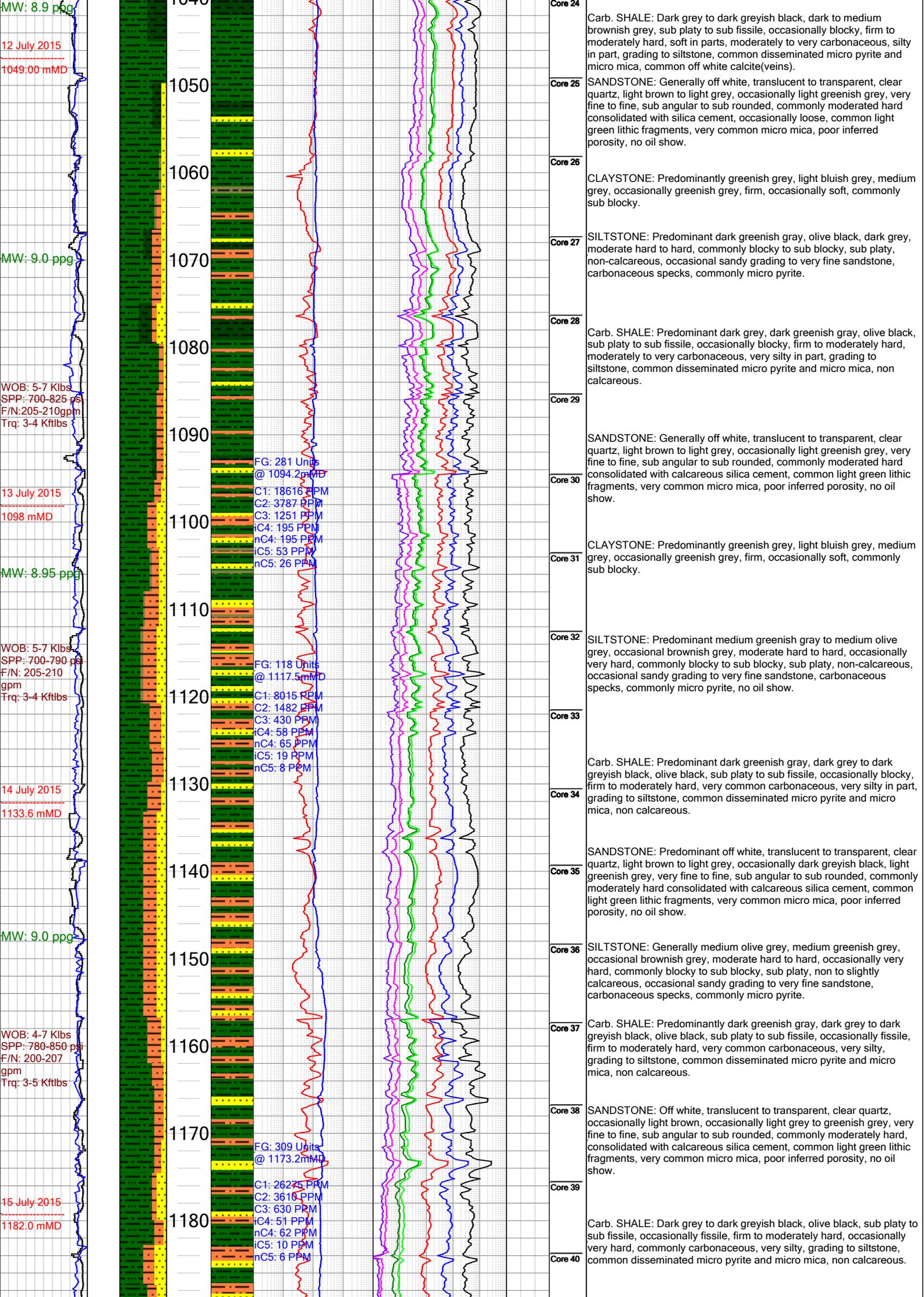
Core 23

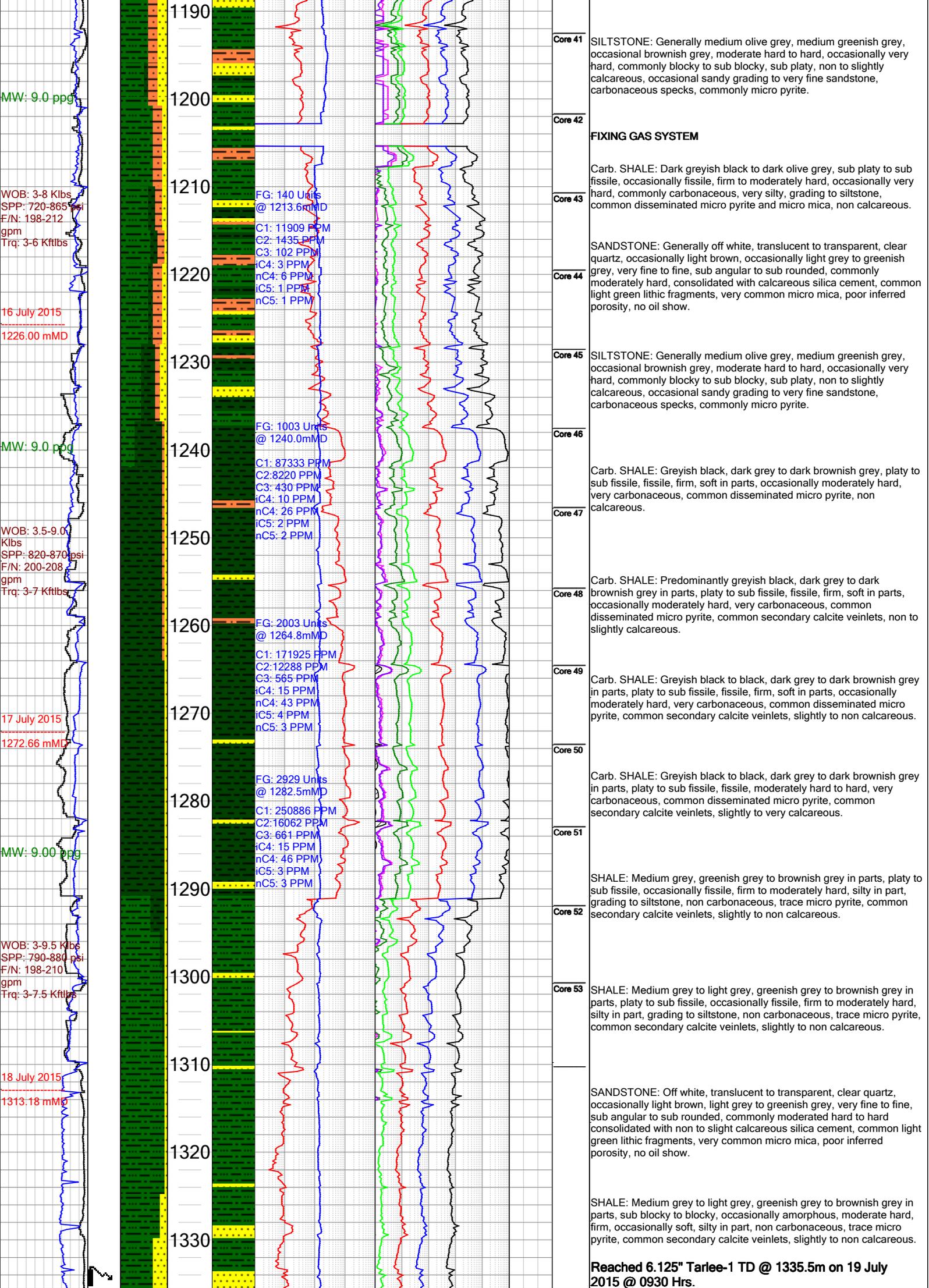
Carb. SHALE: Dark grey to dark greyish black, dark brownish grey, sub platy to sub fissile, occasionally blocky, firm to moderately hard, soft in parts, moderately to very carbonaceous, silty in part, grading to siltstone, fair amount of disseminated micro pyrite and micro mica, non-calcareous.

10 July 2015

1031.39 mMD

1040





MW: 9.0 ppg

WOB: 3-8 Klbs
SPP: 720-865 psi
F/N: 198-212 gpm
Trq: 3-6 Kftlbs

16 July 2015
1226.00 mMD

MW: 9.0 ppg

WOB: 3.5-9.0 Klbs
SPP: 820-870 psi
F/N: 200-208 gpm
Trq: 3-7 Kftlbs

17 July 2015
1272.66 mMD

MW: 9.00 ppg

WOB: 3-9.5 Klbs
SPP: 790-880 psi
F/N: 198-210 gpm
Trq: 3-7.5 Kftlbs

18 July 2015
1313.18 mMD

1190

1200

1210

1220

1230

1240

1250

1260

1270

1280

1290

1300

1310

1320

1330

FG: 140 Units @ 1213.6mMD

C1: 11909 PPM
C2: 1435 PPM
C3: 102 PPM
iC4: 3 PPM
iC5: 6 PPM
nC5: 1 PPM

FG: 1003 Units @ 1240.0mMD

C1: 87333 PPM
C2: 8220 PPM
C3: 430 PPM
iC4: 10 PPM
iC5: 26 PPM
nC5: 2 PPM

FG: 2003 Units @ 1264.8mMD

C1: 171925 PPM
C2: 12288 PPM
C3: 565 PPM
iC4: 15 PPM
iC5: 43 PPM
nC5: 4 PPM
nC5: 3 PPM

FG: 2929 Units @ 1282.5mMD

C1: 250886 PPM
C2: 16062 PPM
C3: 661 PPM
iC4: 15 PPM
iC5: 46 PPM
nC5: 3 PPM
nC5: 3 PPM

Core 41 SILTSTONE: Generally medium olive grey, medium greenish grey, occasional brownish grey, moderate hard to hard, occasionally very hard, commonly blocky to sub blocky, sub platy, non to slightly calcareous, occasional sandy grading to very fine sandstone, carbonaceous specks, commonly micro pyrite.

Core 42 **FIXING GAS SYSTEM**

Carb. SHALE: Dark greyish black to dark olive grey, sub platy to sub fissile, occasionally fissile, firm to moderately hard, occasionally very hard, commonly carbonaceous, very silty, grading to siltstone, common disseminated micro pyrite and micro mica, non calcareous.

Core 43

Core 44 SANDSTONE: Generally off white, translucent to transparent, clear quartz, occasionally light brown, occasionally light grey to greenish grey, very fine to fine, sub angular to sub rounded, commonly moderately hard, consolidated with calcareous silica cement, common light green lithic fragments, very common micro mica, poor inferred porosity, no oil show.

Core 45 SILTSTONE: Generally medium olive grey, medium greenish grey, occasional brownish grey, moderate hard to hard, occasionally very hard, commonly blocky to sub blocky, sub platy, non to slightly calcareous, occasional sandy grading to very fine sandstone, carbonaceous specks, commonly micro pyrite.

Core 46

Carb. SHALE: Greyish black, dark grey to dark brownish grey, platy to sub fissile, fissile, firm, soft in parts, occasionally moderately hard, very carbonaceous, common disseminated micro pyrite, non calcareous.

Core 47

Carb. SHALE: Predominantly greyish black, dark grey to dark brownish grey in parts, platy to sub fissile, fissile, firm, soft in parts, occasionally moderately hard, very carbonaceous, common disseminated micro pyrite, common secondary calcite veinlets, non to slightly calcareous.

Core 48

Carb. SHALE: Greyish black to black, dark grey to dark brownish grey in parts, platy to sub fissile, fissile, firm, soft in parts, occasionally moderately hard, very carbonaceous, common disseminated micro pyrite, common secondary calcite veinlets, slightly to non calcareous.

Core 49

Carb. SHALE: Greyish black to black, dark grey to dark brownish grey in parts, platy to sub fissile, fissile, moderately hard to hard, very carbonaceous, common disseminated micro pyrite, common secondary calcite veinlets, slightly to very calcareous.

Core 50

Carb. SHALE: Greyish black to black, dark grey to dark brownish grey in parts, platy to sub fissile, fissile, moderately hard to hard, very carbonaceous, common disseminated micro pyrite, common secondary calcite veinlets, slightly to very calcareous.

Core 51

SHALE: Medium grey, greenish grey to brownish grey in parts, platy to sub fissile, occasionally fissile, firm to moderately hard, silty in part, grading to siltstone, non carbonaceous, trace micro pyrite, common secondary calcite veinlets, slightly to non calcareous.

Core 52

SHALE: Medium grey to light grey, greenish grey to brownish grey in parts, platy to sub fissile, occasionally fissile, firm to moderately hard, silty in part, grading to siltstone, non carbonaceous, trace micro pyrite, common secondary calcite veinlets, slightly to non calcareous.

Core 53

SANDSTONE: Off white, translucent to transparent, clear quartz, occasionally light brown, light grey to greenish grey, very fine to fine, sub angular to sub rounded, commonly moderated hard to hard consolidated with non to slight calcareous silica cement, common light green lithic fragments, very common micro mica, poor inferred porosity, no oil show.

SHALE: Medium grey to light grey, greenish grey to brownish grey in parts, sub blocky to blocky, occasionally amorphous, moderate hard, firm, occasionally soft, silty in part, non carbonaceous, trace micro pyrite, common secondary calcite veinlets, slightly to non calcareous.

Reached 6.125" Tarlee-1 TD @ 1335.5m on 19 July 2015 @ 0930 Hrs.