



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: USA FED 02N-36HZ
 Location: Weld County, CO.
 License Number: 0512336886000
 Spud Date: 10/26/2013
 Surface Coordinates: 611'FSL & 1963'FEL, SEC.36, T3N-R66W
 Region: Weld County
 Drilling Completed: 11/01/13
 Bottom Hole Coordinates: 460'FSL & 2360'FEL, SEC.36, T3N-R66W
 Ground Elevation (ft): 4995' K.B. Elevation (ft): 5008'
 Logged Interval (ft): 6750' To: 11764' Total Depth (ft): 11764'
 Formation: Niobrara C
 Type of Drilling Fluid: Water Based Mud

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Anadarko Petroleum Corporation
 Address: Granite Tower
 1099 18th Street, #1800
 Denver, CO 80202

GEOLOGIST

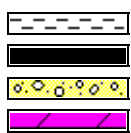
Name: Aaron Wiggins / Kyle Pickard
 Company: Great Divide Consulting, Inc
 Address: P.O. Box 630263
 Highlands Ranch, CO 80163

Comments

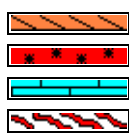
ROCK TYPES



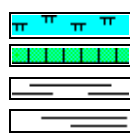
Anhy
Bent
Brec
Cht



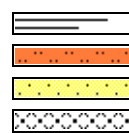
Clyst
Coal
Congl
Dol



Gyp
Igne
Lmst
Meta



Mrlst
Salt
Shale
Shcol



Shgy
Sltst
Ss
Till

ACCESSORIES

MINERAL

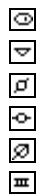
Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau



Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff

FOSSIL

Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite



Ostra
Pelec
Pellet
Pisolite
Plant
Strom

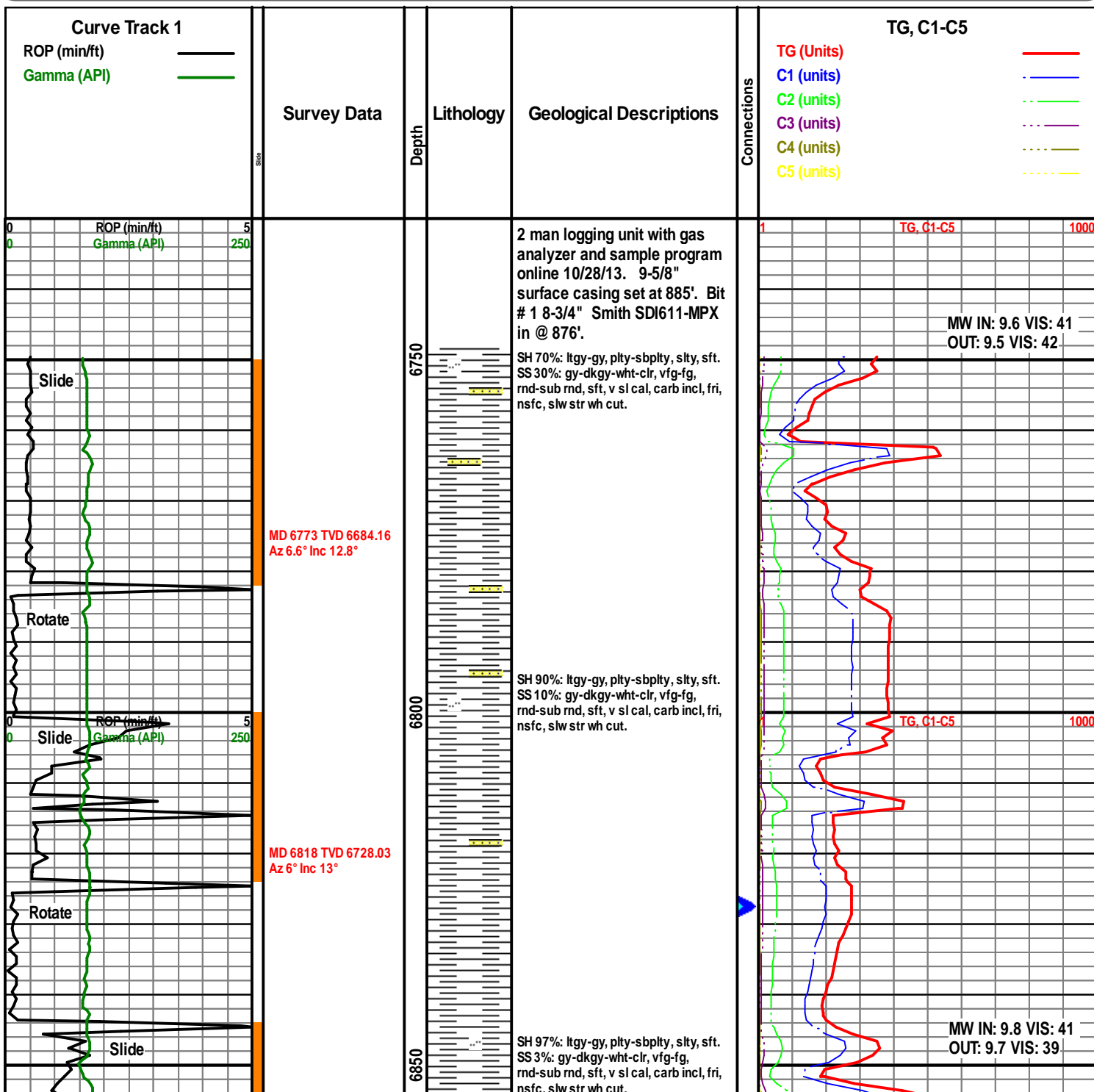
STRINGER

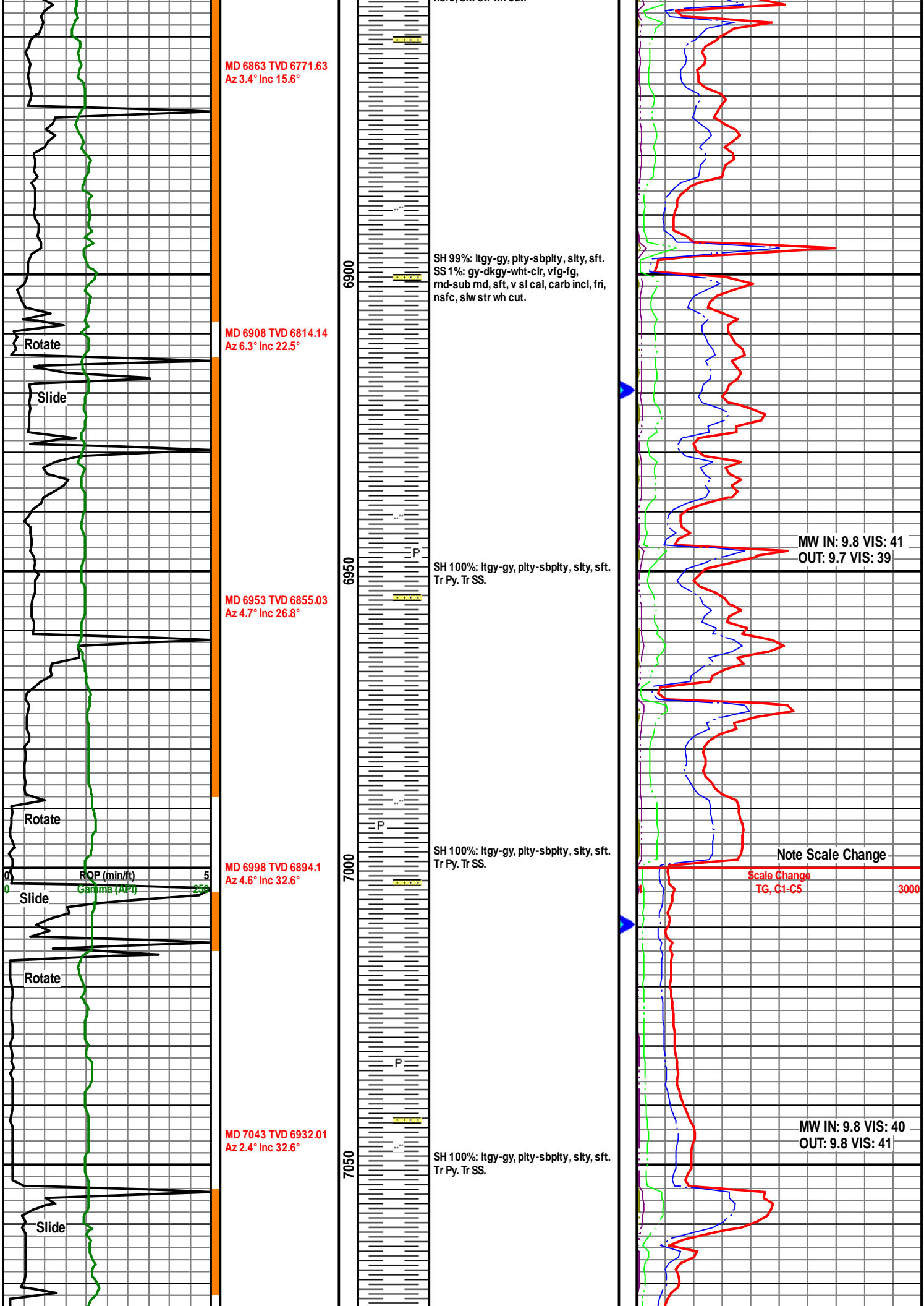
Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst

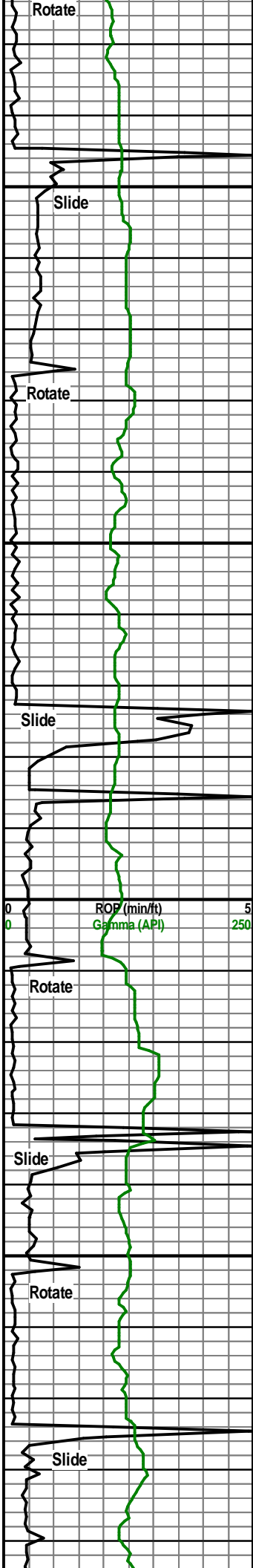
Siltstrg
Ssstrg

TEXTURE

Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest







MD 7088 TVD 6969.29
Az 4.2° Inc 35.5°

MD 7133 TVD 7004.79
Az 5.5° Inc 40.3°

MD 7178 TVD 7038.55
Az 4.7° Inc 42.5°

MD 7223 TVD 7070.75
Az 4.2° Inc 46.1°

MD 7268 TVD 7100.68
Az 3.7° Inc 50.2°

7100

7150

7200

7250

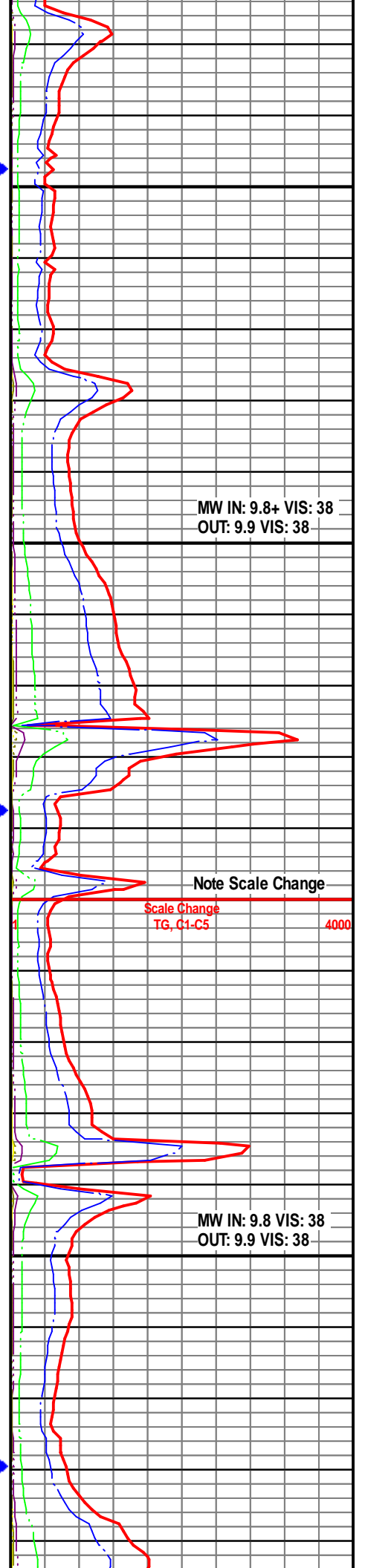
SH 100%: ltgy-gy, plty-sbplty, slty, sft.
Tr Py. Tr SS.

SH 100%: ltgy-gy, plty-sbplty, slty, sft.
Tr py. Tr SS. Tr Bent.

SH 99%: ltgy-gy, plty-sbplty, slty, sft.
Tr py. Bent 1%: crm, vfg, frm-hrd, sl
cal, org fl.

**Sharon Springs Top
@ 7211'MD 7062'TVD**

SH 97%: ltgy-gy, plty-sbplty, slty, sft.
Tr py. Bent 3%: crm, vfg, frm-hrd, sl
cal, org fl.

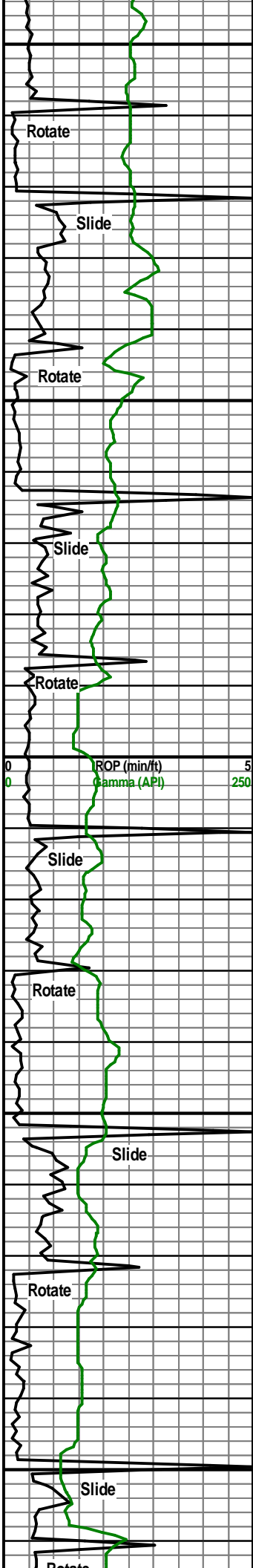


MW IN: 9.8+ VIS: 38
OUT: 9.9 VIS: 38

Note Scale Change

Scale Change
TG, C1-C5 4000

MW IN: 9.8 VIS: 38
OUT: 9.9 VIS: 38



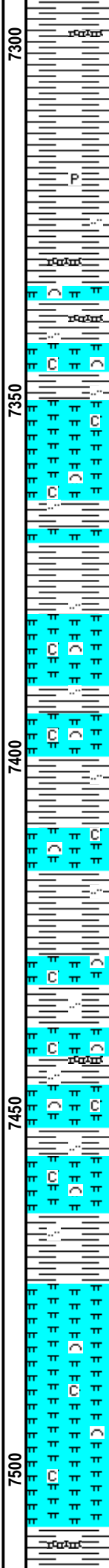
MD 7313 TVD 7127.64
Az 3.5° Inc 56.4°

MD 7358 TVD 7150.92
Az 3.3° Inc 61.3°

MD 7403 TVD 7171.17
Az 3.8° Inc 65.2°

MD 7448 TVD 7188.6
Az 3.7° Inc 69.2°

MD 7493 TVD 7203.14
Az 4° Inc 73.1°



SH 95%: ltgy-gy, pty-sbpty, slty, sft.
Tr py. Bent 5%: crm, vfg, frm-hrd, sl
cal, org fl.

Niobrara A Top @ 7343'MD 7144'TVD

Chalky Mrlst 52%: ltgy-gy, sbblky, frm,
v calc, sl intbd biocl, nsfl, fst str wh
cut. SH 45%: ltgy-gy, pty-sbpty, slty,
sft, v calc. Tr Py. Bent 3%: crm, vfg,
frm-hrd, sl cal, org fl.

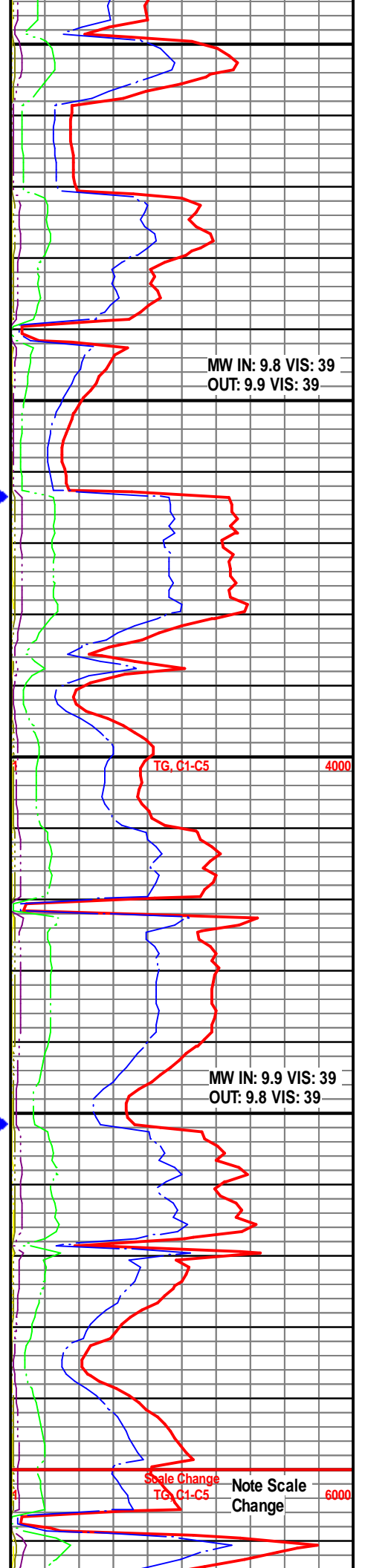
Chalky Mrlst 95%: ltgy-gy, sbblky, frm,
v calc, sl intbd biocl, nsfl, fst str wh
cut. SH 5%: ltgy-gy, pty-sbpty, slty,
sft, v calc. Tr Py. Tr Bent.

Chalky Mrlst 99%: ltgy-gy, sbblky, frm,
v calc, sl intbd biocl, nsfl, fst str wh
cut. SH 1%: ltgy-gy, pty-sbpty, slty,
sft, v calc.

Niobrara B Top @ 7454'MD 7191'TVD

10/29/13 @ 4:30am
Depth 7499'MD

Chalky Mrlst 99%: ltgy-gy, sbblky, frm,
v calc, sl intbd biocl, nsfl, fst str wh
cut. SH 1%: ltgy-gy, pty-sbpty, slty,
sft, v calc.

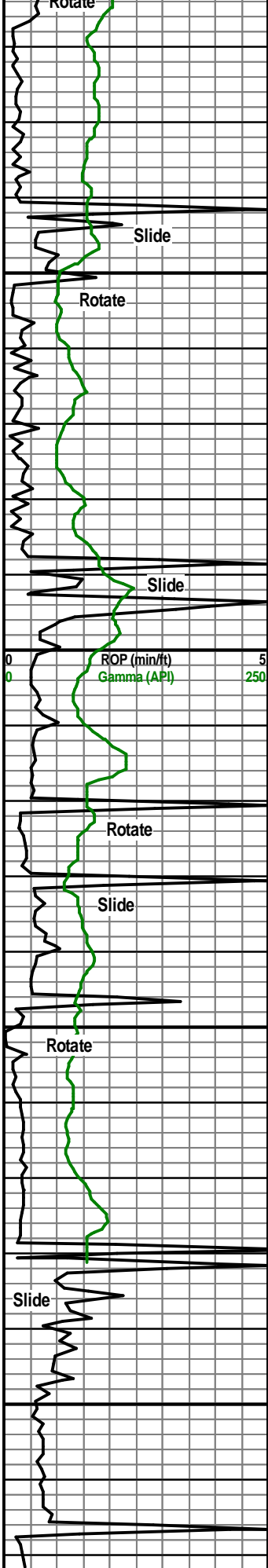


MW IN: 9.8 VIS: 39
OUT: 9.9 VIS: 39

TG, C1-C5 4000

MW IN: 9.9 VIS: 39
OUT: 9.8 VIS: 39

Scale Change
TG, C1-C5 Note Scale
Change 6000



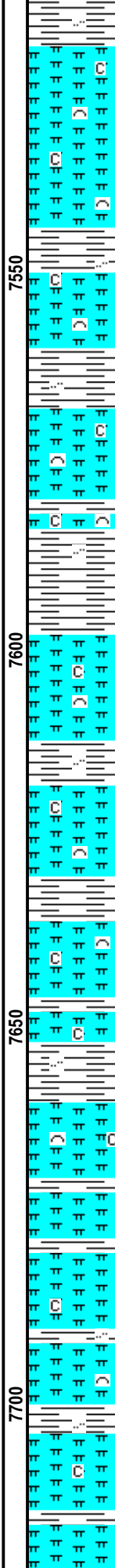
MD 7538 TVD 7215.12
Az 3.5° Inc 76°

MD 7583 TVD 7225.25
Az 2.6° Inc 78°

MD 7624 TVD 7232.61
Az 1.4° Inc 81.3°

MD 7667 TVD 7237.96
Az 1.2° Inc 84.4°

MD 7722 TVD 7240.46
Az 1.2° Inc 90.4°



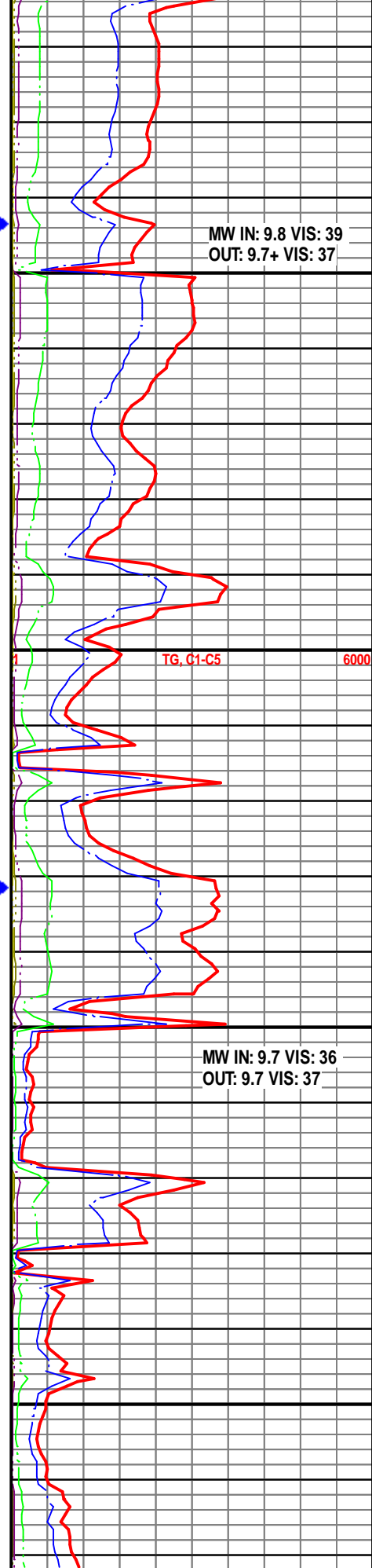
Niobrara C Top @ 7547'MD 7217'TVD

Chalky Mrlst 97%: ltgy-gy, sbblky, frm,
v calc, sl intbd biocl, nsfl, fst str wh
cut. SH 3%: ltgy-gy, plty-sbplty, slty,
sft, v calc.

Chalky Mrlst 80%: ltgy-gy, sbblky, frm,
v calc, abd intbd biocl, nsfl, fst str wh
cut. SH 20%: ltgy-gy, plty-sbplty, slty,
sft, v calc. Tr Bent.

Chalky Mrlst 95%: ltgy-gy, sbblky, frm,
v calc, abd intbd biocl, nsfl, fst str wh
cut. SH 5%: ltgy-gy, plty-sbplty, slty,
sft, v calc.

Chalky Mrlst 80%: ltgy-gy, sbblky, frm,
v calc, abd intbd biocl, nsfl, fst str wh
cut. SH 20%: ltgy-gy, plty-sbplty, slty,
sft, v calc.



MW IN: 9.8 VIS: 39
OUT: 9.7+ VIS: 37

TG, C1-C5

6000

MW IN: 9.7 VIS: 36
OUT: 9.7 VIS: 37

10/26/13 @
9:00am TD Curve
for intermediate

[illegible]