



Woolsey Operating Company, LLC

Scale 1:600 (2"=100') Metric
Measured Depth Log

Well Name: Michel 1 H
Location: Section 7 - Township 34 South - Range 11 West
License Number: 15-007-24022-01-00 Region: Barber County, Kansas
Spud Date: June 7, 2013 Drilling Completed:
Surface Coordinates: 2246' FNL and 1480' FEL
Apx. NE SE SW NE
Bottom Hole Coordinates:
Ground Elevation (m): 1432' K.B. Elevation (m): 1449'
Logged Interval (m): 3700' To: Total Depth (m):
Formation: Heebner ----> Mississippian
Type of Drilling Fluid: Chemical Mud, Water/Flozan
Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Woolsey Operating Company, LLC
Address: 125 N. Market Suite 1000
Wichita, Kansas 67202

GEOLOGIST

Name: Bill Klaver
Company: Woolsey Operating Company, LLC
Address: 125 N. Market Suite 1000
Wichita, Kansas 67202









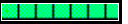











Remarks

Gas Detection: Woolsey Operating, Trailer #2
 Mud Systems: Mud Co. Brad Bortz, Terry Ibson Engineers
 Directional System: Calmena Energy, Heath Marshall, Mark Sanders, Directional Drillers
 MWD Hands: Shane Lewis, Caleb Consalvi, Joe Newberry
 Woolsey Operating Company Man: Mike Tharp








































































Rig Crews

Tool Pusher: Steve Ellington, Relief: Sammy Fry
 Day Drillers: Johnnie Stone, Jack Lambert
 Night Drillers: Tanner Barber, Terry Stark
 7 days on 7 days off, 12 hour tours

ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

ACCESSORIES

MINERAL	 Gyp	FOSSIL	 Ostra	 Sltstrg
 Anhy	 Hvymin	 Algae	 Pelec	 Ssstrg
 Arggrn	 Kaol	 Amph	 Pellet	TEXTURE
 Arg	 Marl	 Belm	 Pisolite	 Boundst
 Bent	 Minxl	 Bioclst	 Plant	 Chalky
 Bit	 Nodule	 Brach	 Strom	 Cryxln
 Brecfrag	 Phos	 Bryozoa	STRINGER	 Earthy
 Calc	 Pyr	 Cephal	 Anhy	 Finexln
 Carb	 Salt	 Coral	 Arg	 Grainst
 Chtdk	 Sandy	 Crin	 Bent	 Lithogr
 Chtlt	 Silt	 Echin	 Coal	 Microxln
 Dol	 Sil	 Fish	 Dol	 Mudst
 Feldspar	 Sulphur	 Foram	 Gyp	 Packst
 Ferrpel	 Tuff	 Fossil	 Ls	 Wackest
 Ferr		 Gastro	 Mrst	
 Glau		 Oolite		

OTHER SYMBOLS

POROSITY

- E Earthy
- F Fenest
- F Fracture
- X Inter
- M Moldic
- O Organic
- P Pinpoint

V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- S Subrnd
- A Subang
- A Angular

OIL SHOW

- E Even

S Spotted

- Q Ques
- D Dead

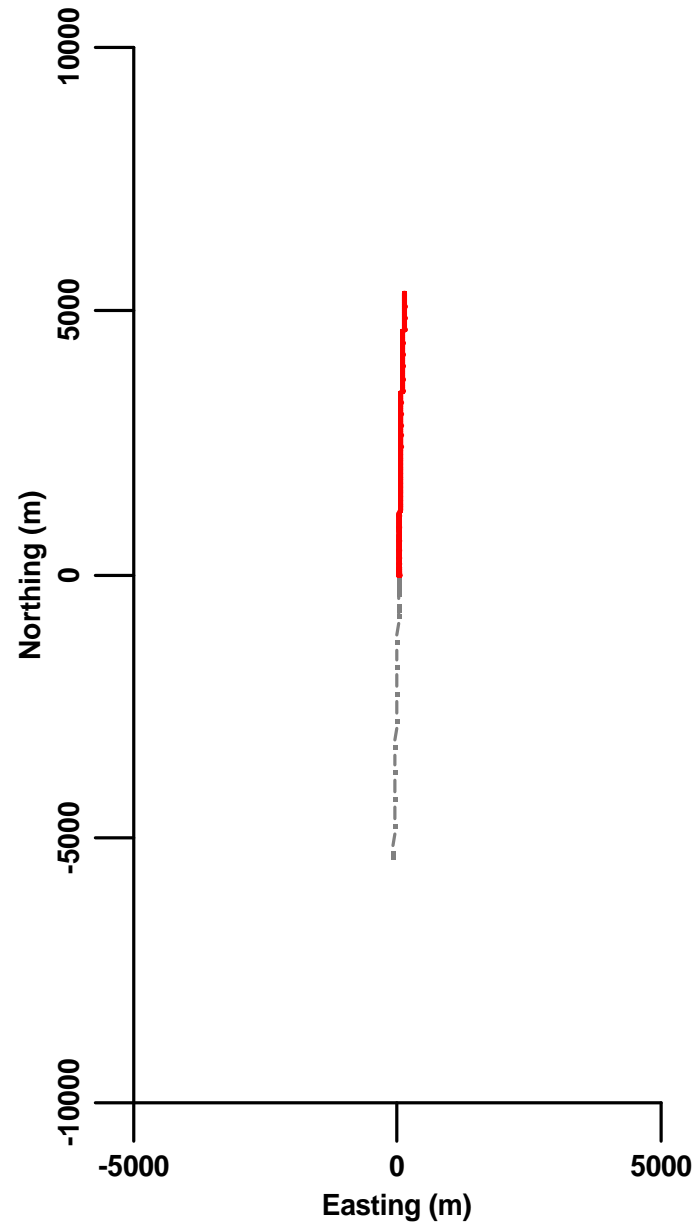
INTERVAL

- C Core
- D Dst

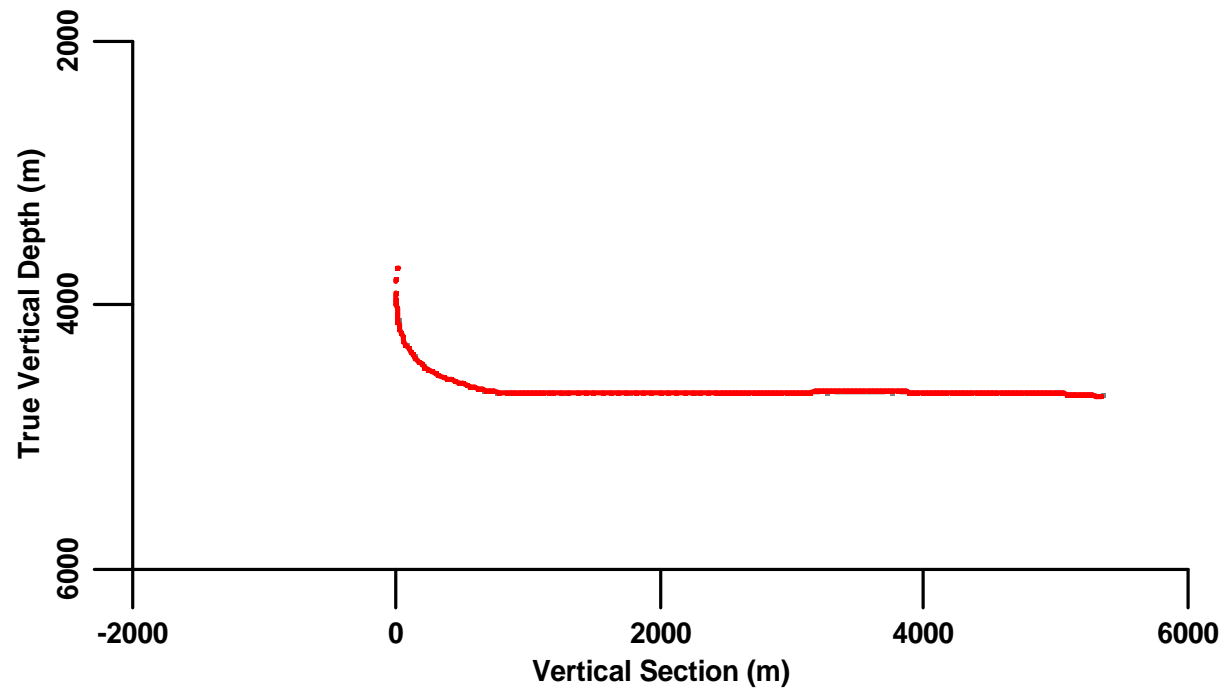
EVENT

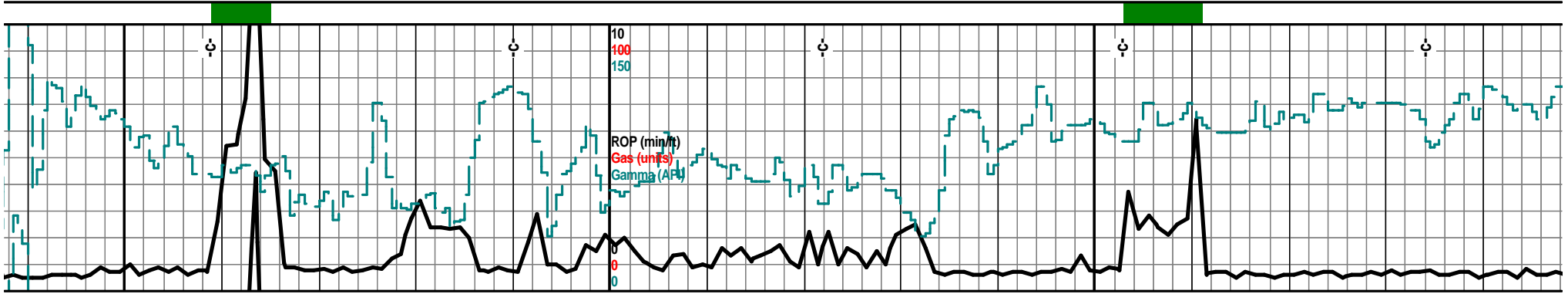
- R Rft
- S Sidewall

Plan



Elevation





3740

3760

3780

3800

3820

3840

3860

3880

Geo on Location
3765' 6:45 am
June 13, 2013

Reference wells: Woolsey Operating
Co's Michel C #1, C NE SE, 7-34S-11W,
Woolsey Operating Co's Michel B #1, SE
SE NE, 18-34S-11W.

3800 TVD

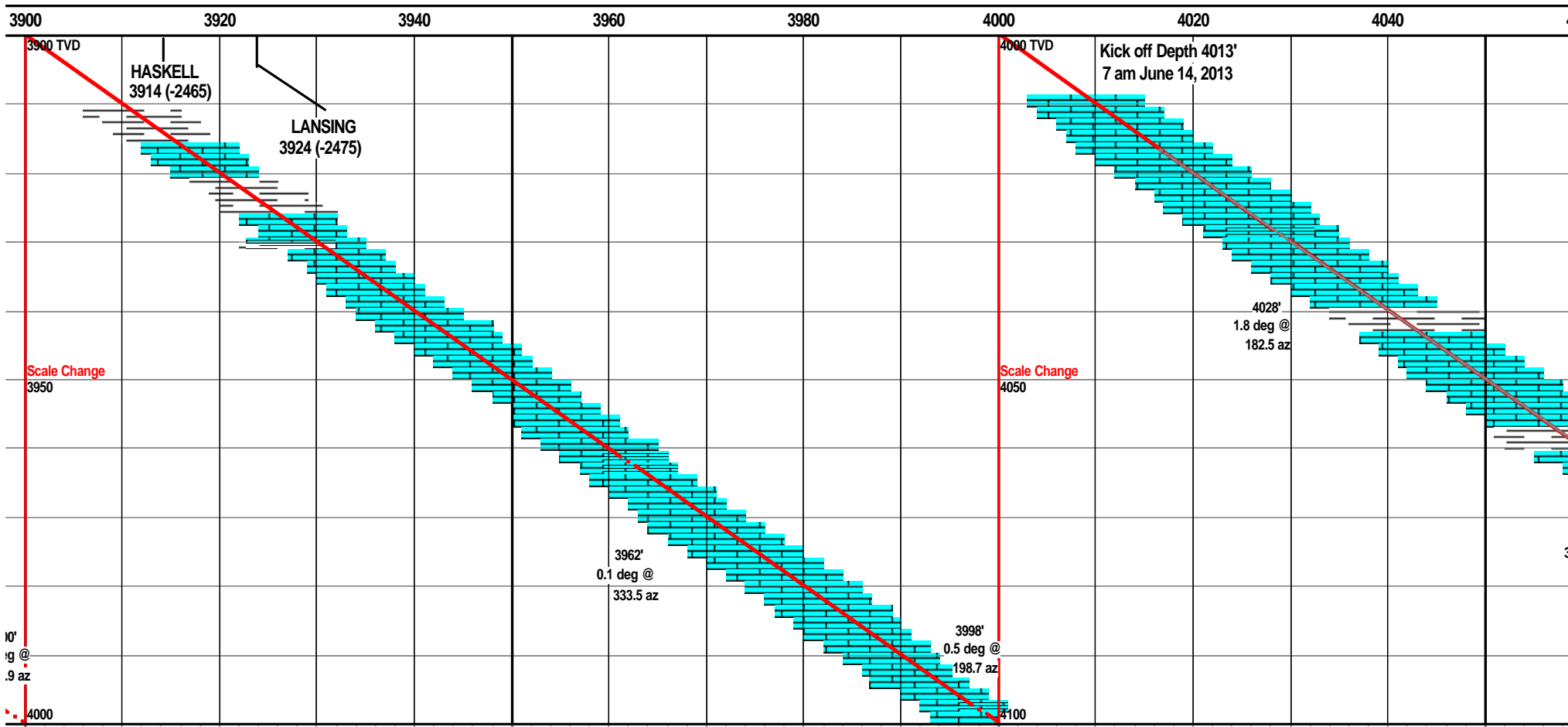
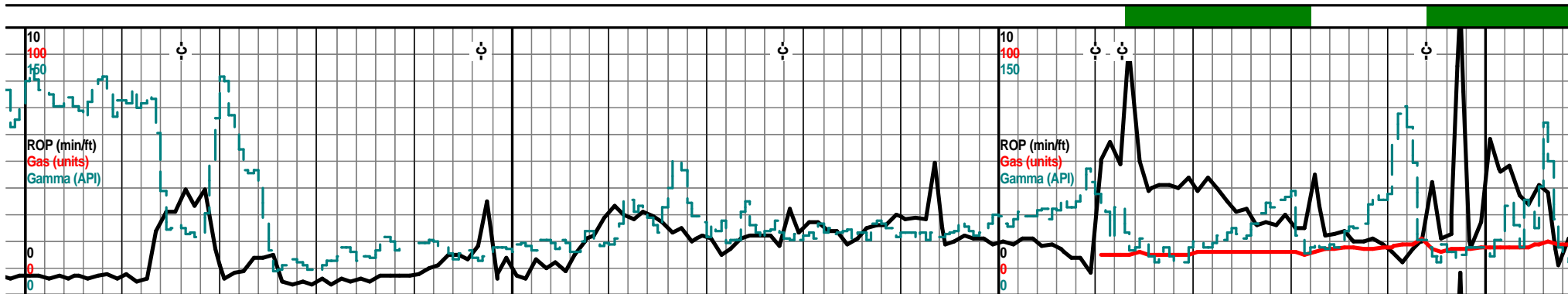
3804'
0.2 deg @
8.5 az

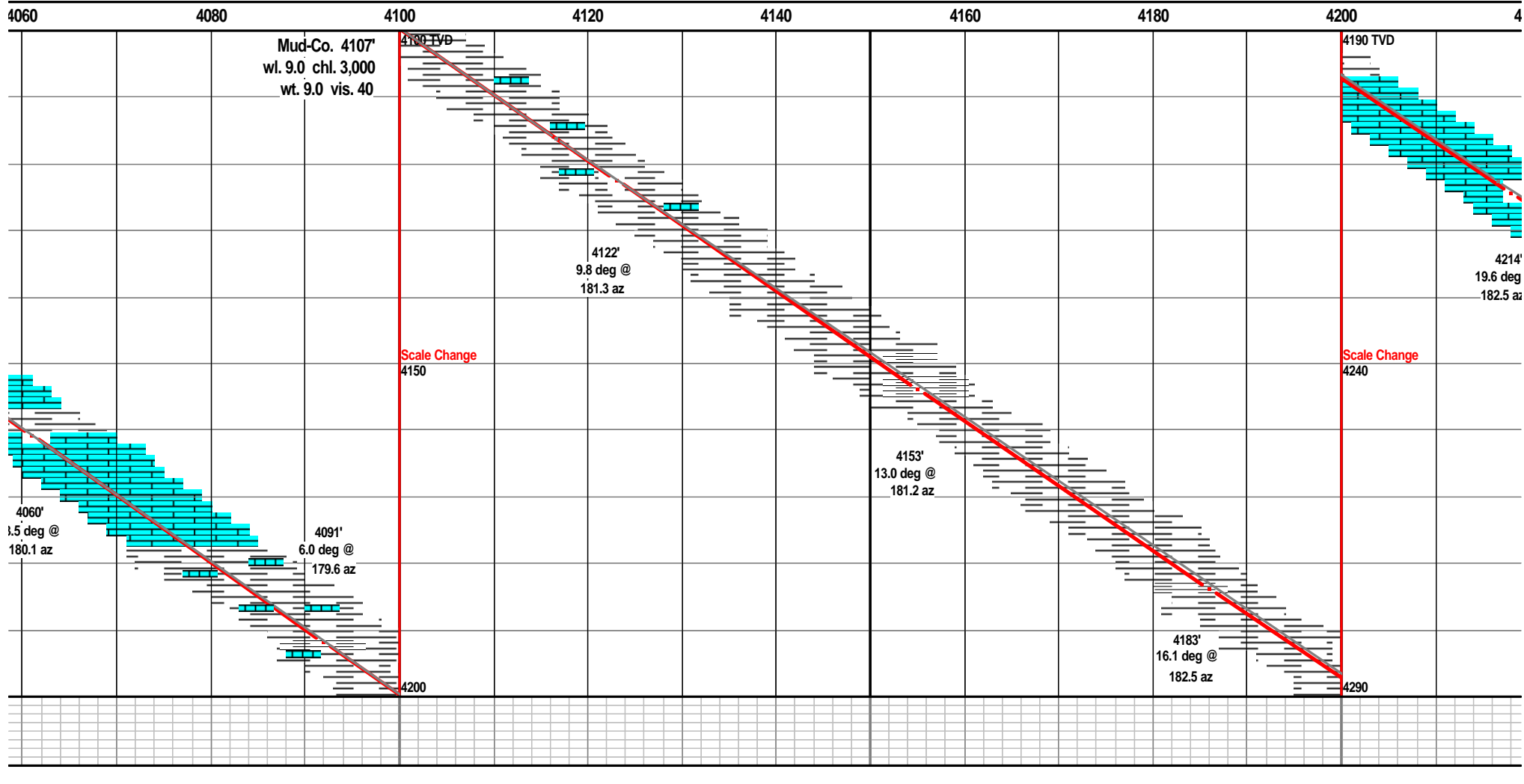
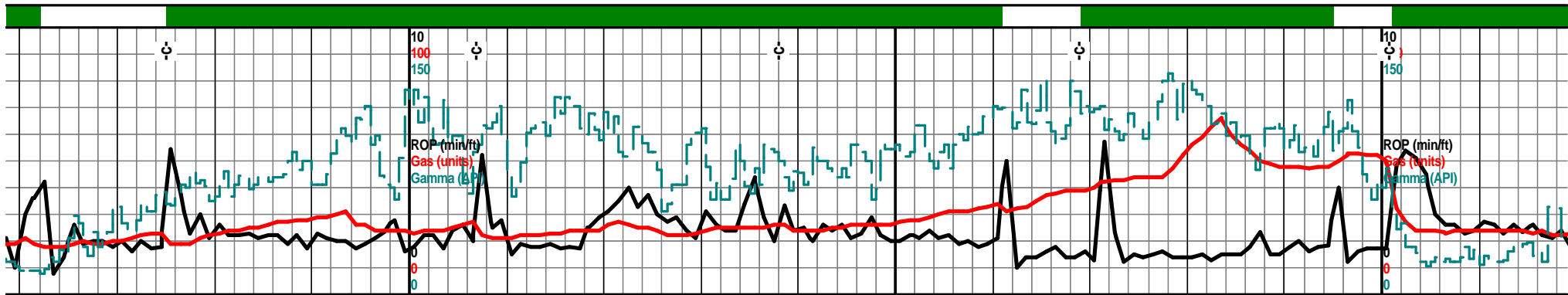
Scale Change
3850

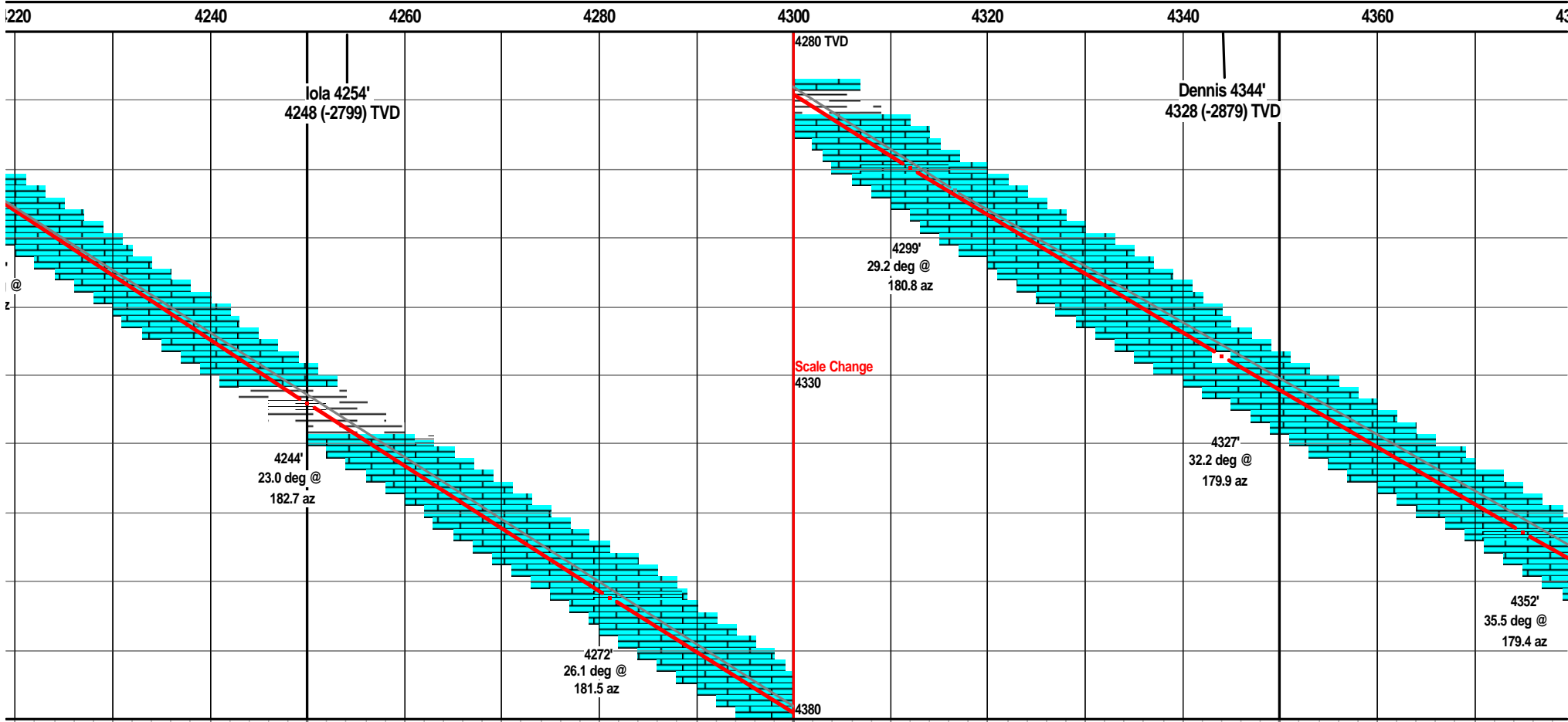
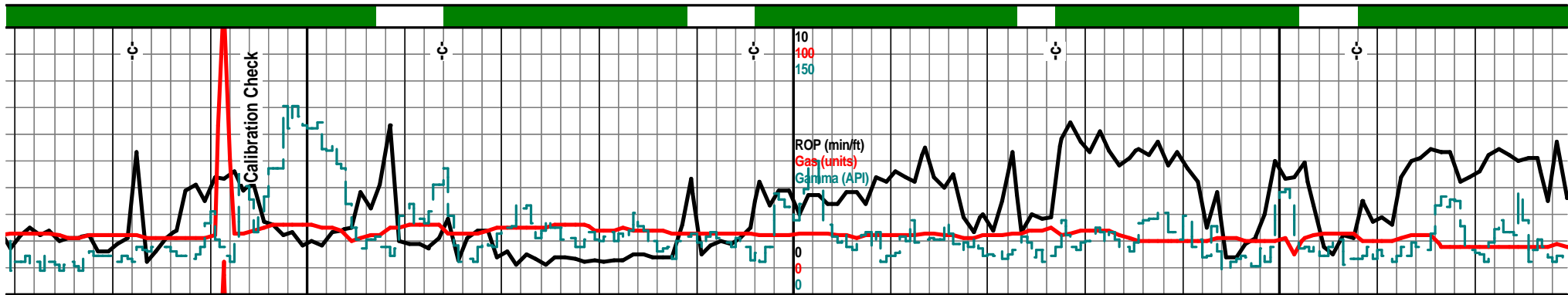
Mud Co. 3884'
wt. 9.4 vis. 48
wl. 9.0 chl. 2500

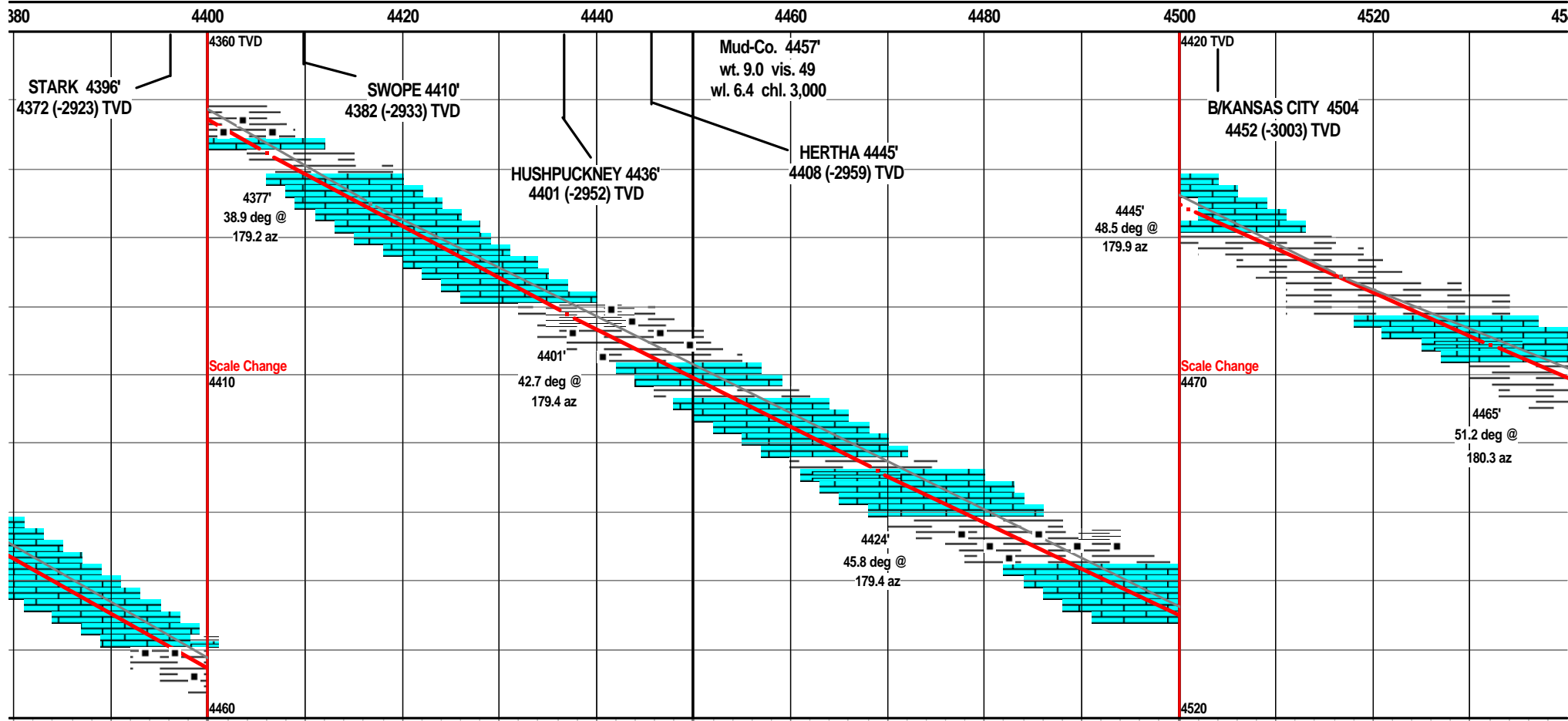
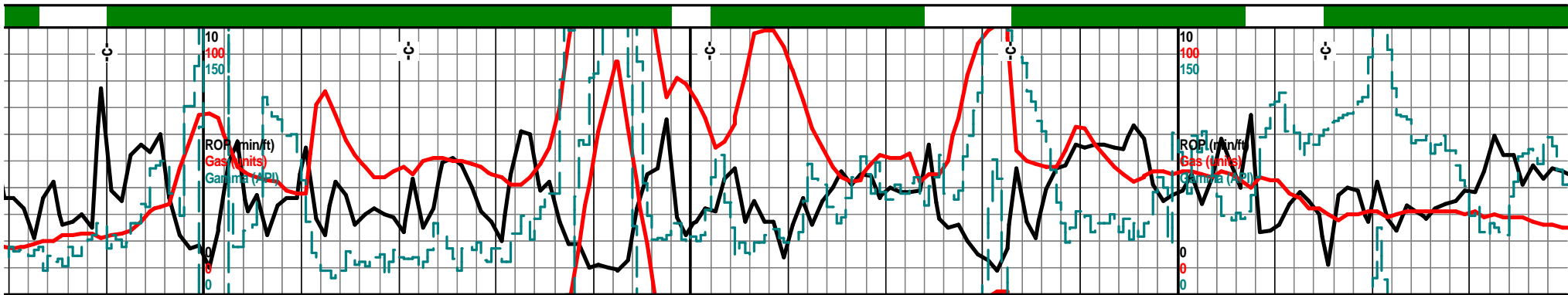
3900

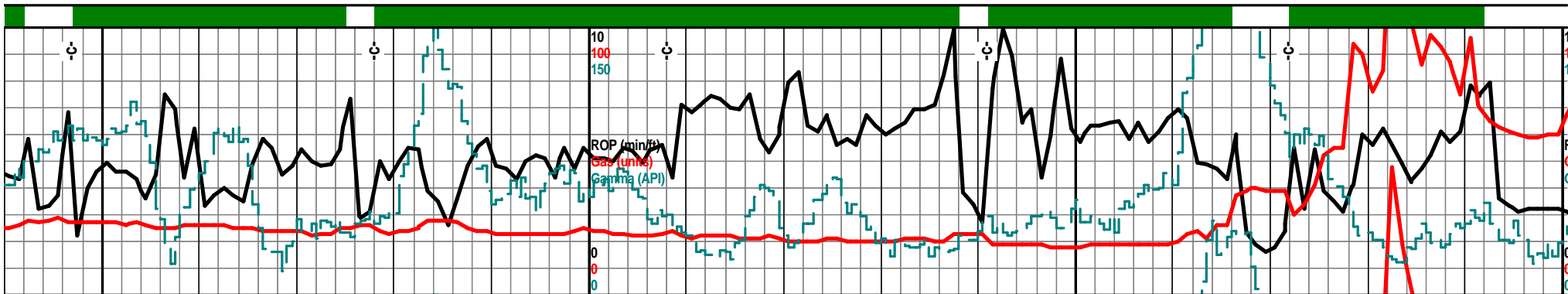
390
0.4 de
272.



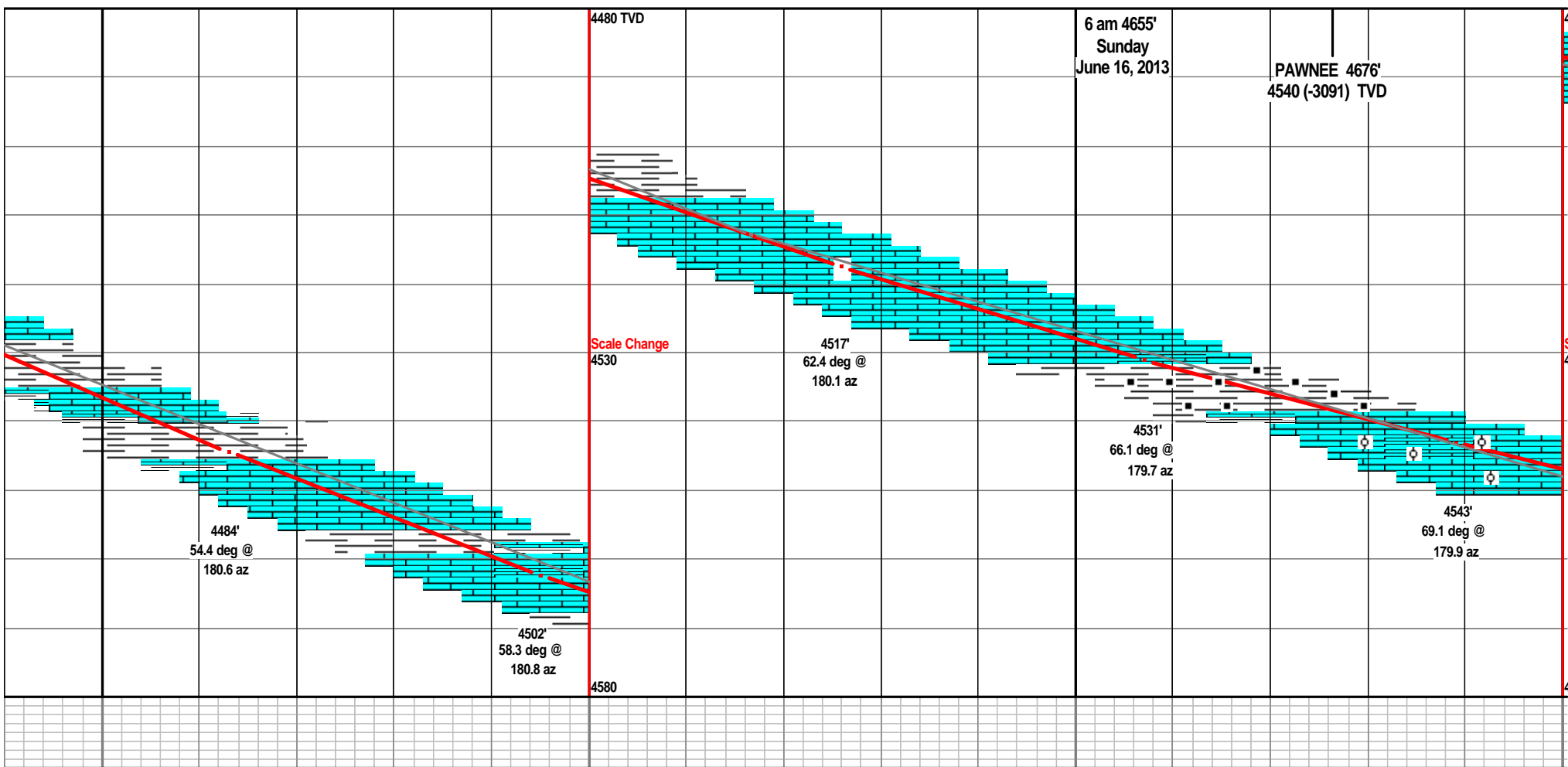


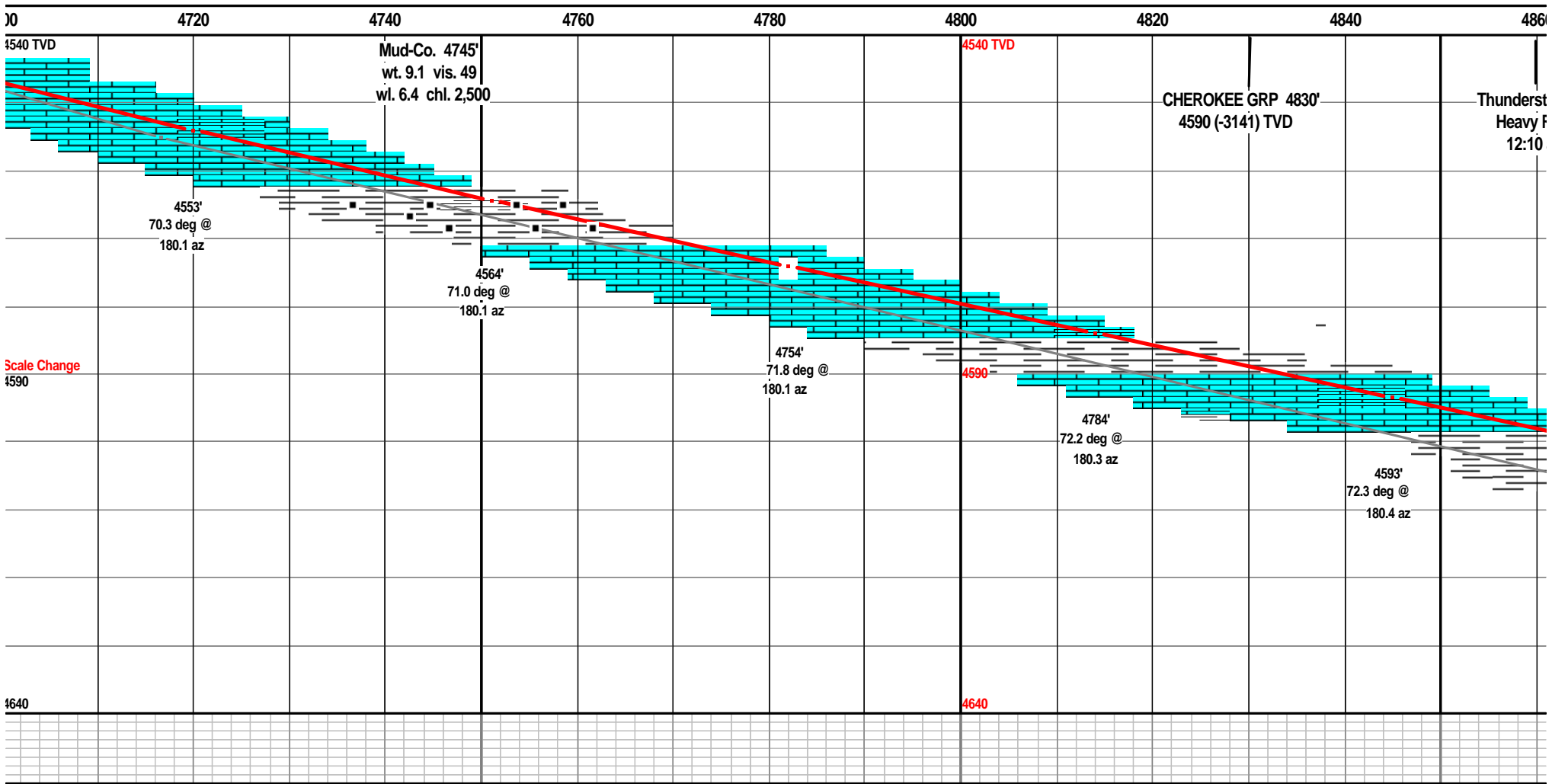
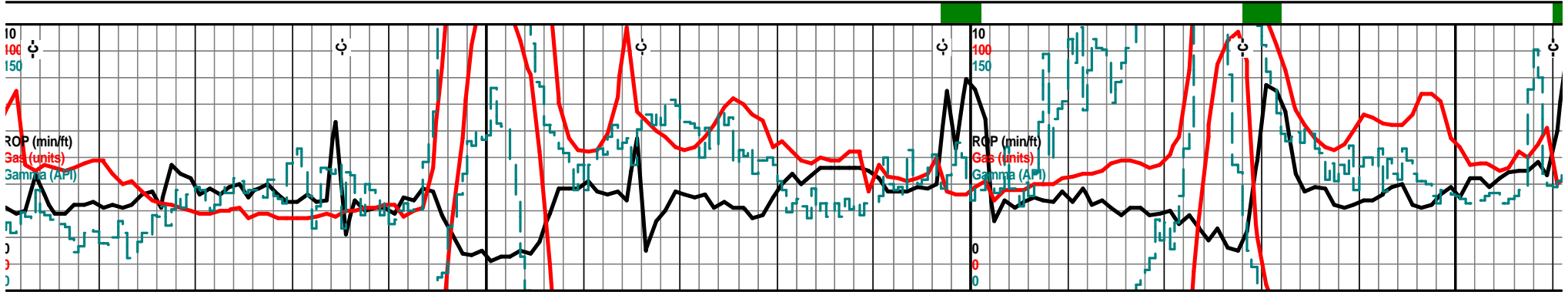


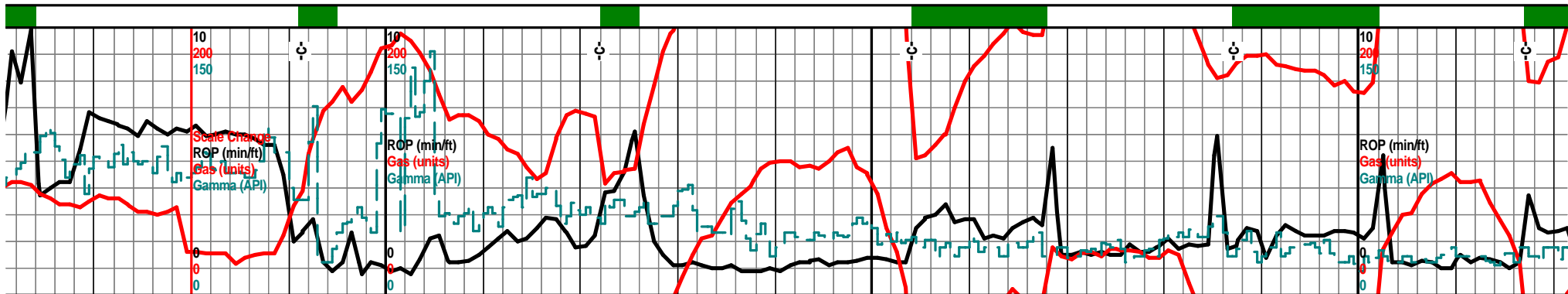




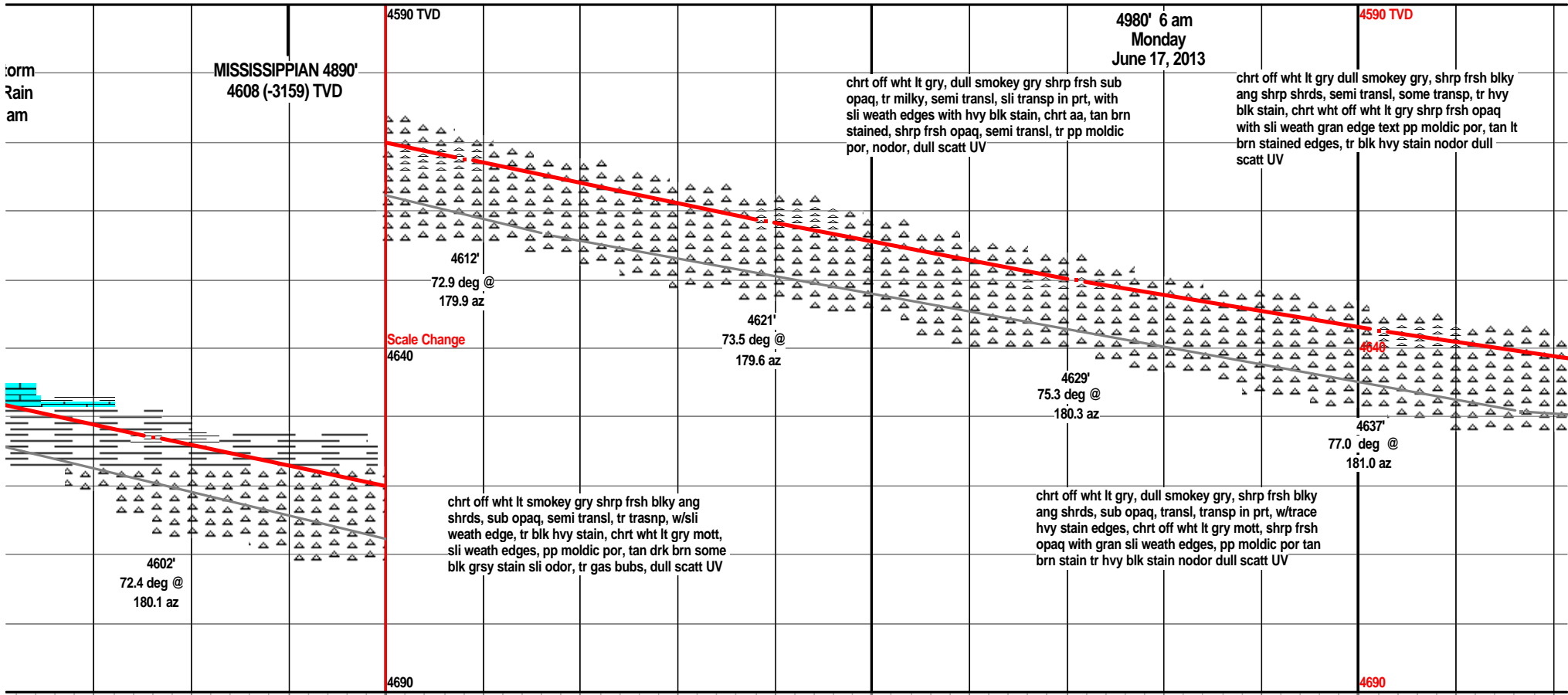
40 4560 4580 4600 4620 4640 4660 4680 4700

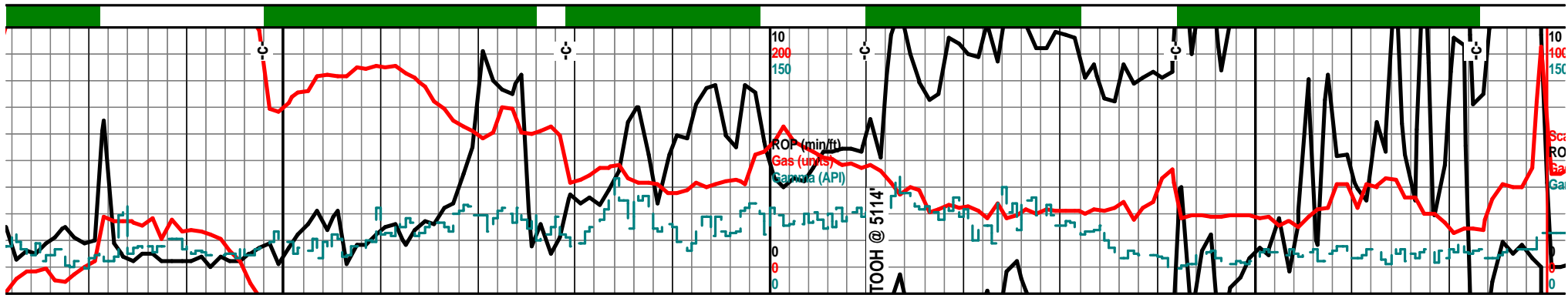






0 4880 4900 4920 4940 4960 4980 5000 5020





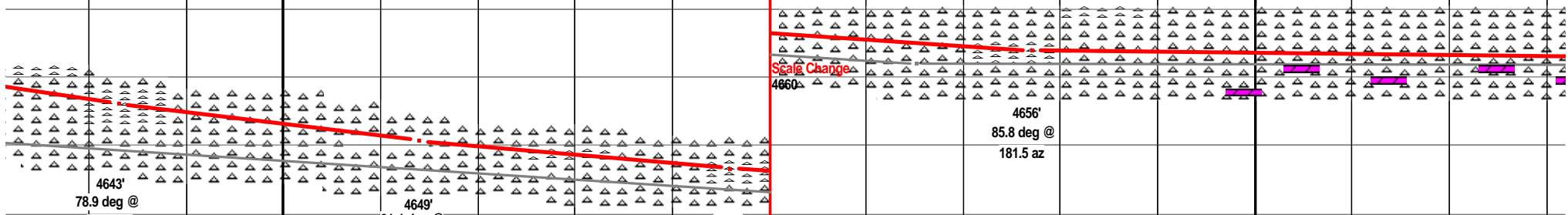
5040 5060 5080 5100 5120 5140 5160 5180

Mud-Co. 5080' wt. 9.2 vis. 51 wl. 8.0 chl. 3,000
 4610 TVD
 TOOH at 5114'
 Downhole motor shelled out
 7" Casing De 5180'

chrt off wht, lt gry dull lt smokey gry shrp frsh semi opa, sli transl in prt, tr transp, blk ang shrp shrds, chrt off wht lt gry with tan lt brn stained sli weath gran text edges, tr hvy blk stain, vis gas bubs, nodor, live UV shows

chrt off wht lt gry, dull smokey gry shrp frsh opa, blk ang shrds, semi transl, transp in prt. chrt tan off wht lt gry frsh blk ang with tr sli weath gran sli trip text edges, pp moldic por, tan brn stain, llive gas bubs, filmy SFO, nodor, tr blk hvy stain

chrt lt gry off wht lt milky opa, color, shrp blk ang shrds, semi transl, some rare transp, chrt off wht lt gry shrp frsh opa with sli weath gran sli trip text edge, pp moldic edge por, drk tan lt brn edge stain, gas bubs, live UV, nodor



4643' 78.9 deg @ 181.3 az
 chrt off wht lt gry, lt dull smokey gry shrp frsh semi opa, sli transl, some transp, blk ang shrds, with tr sli weath edge text, hvy grsy stain, chrt lt gry smokey gry, shrp frsh with sli weath gran edges, pp moldic por, sli tan lt brn stain, vis gas bubs, nodor

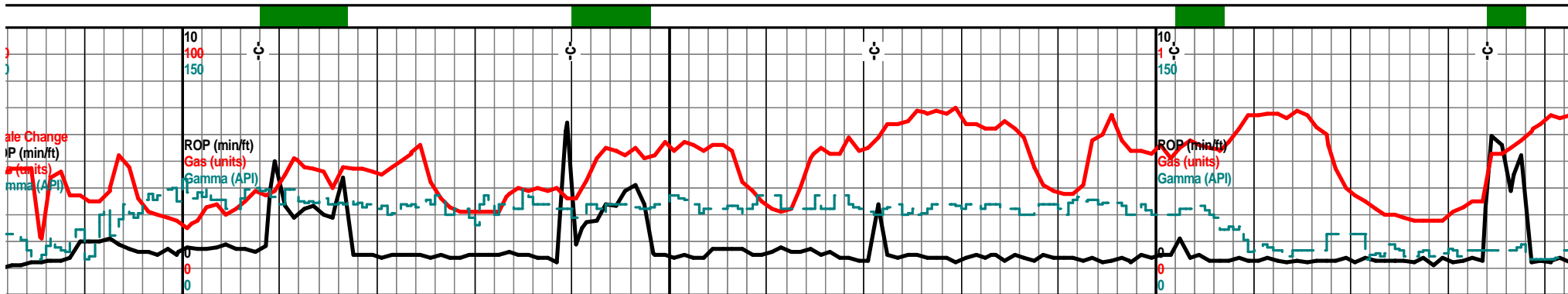
4649' 81.4 deg @ 181.7 az
 chrt wht off wht lt smokey gry, shrp frsh opa, sub opa, semi transl, tr transp, with gran weath sli trip text edges, pp moldic por, pp por, tan brn stained edges, hvy blk stain, filmy SFO, gas bubs, live UV, nodor

4653' 83.6 deg @ 181.7 az

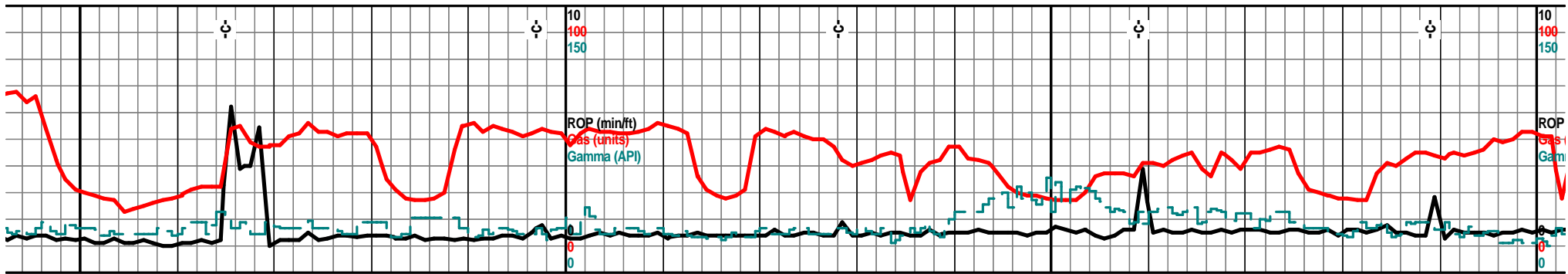
4656' 85.8 deg @ 181.5 az
 chrt off wht lt gry smokey, milky opa, color, shrp frsh blk ang shrds, semi transl, some transp in prt, chrt off wht lt gry aa with sli weath gran edge text, pp moldic edge por, tan lt brn stain, gas bubs, scatt live UV, tr hvy blk stain

chrt off wht lt gry, gry wht mott, milky gry o shrp frsh opa, blk ang shrds, with chrt of gry, weath gran edge text, pp moldic edge, lt brn stained edges, tr gas bubs, tr hvy brn grsy stain, scatt live UV

4710

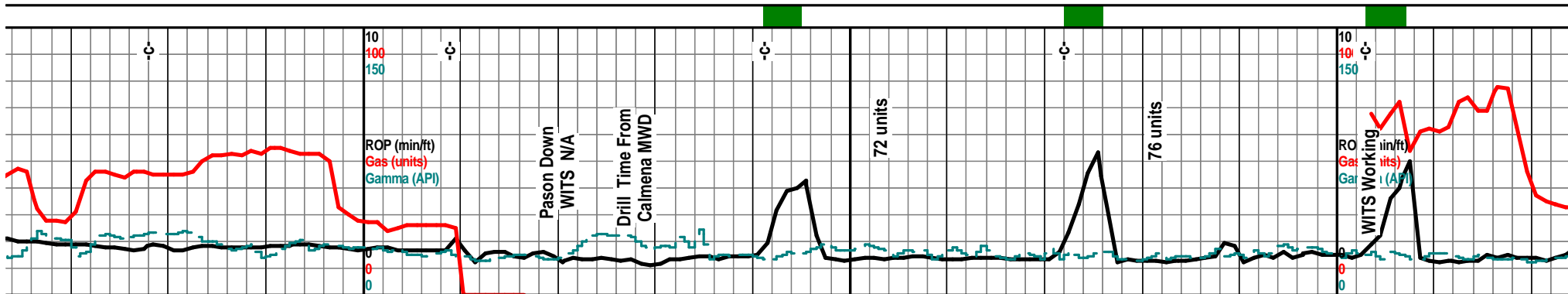


Depth (ft)	5200	5220	5240	5260	5280	5300	5320	5340
4610 TVD	<p>5265' 6 am Friday June 21, 2013</p>							
4657'	<p>chrt off with lt gry, milky smokey color, shrp blk ang semi transl, with weath gran vry sli trip text edges, tan brn stain, tr hvy brn stain, gas bubs, dolo chrt dolo crm off wht lt gry/green f vf xln gran soft sub chlky, pp inter xln por, tan drk tan brn stain, chrt inclu, dull scatt UV</p>				<p>chrt lt gry lt smokey gry, shrp frsh opaq transl, mstly transp, with weath gran trip text edges, pp moldic por, tan brn blk stain tr hv stain, gas bubs, dull UV, with off wht lt gry green dolo edge, inter xln por, tan brn blk stain, blk SFO, nodor</p>		<p>chrt off wht lt gry lt smokey gry, shrp frsh semi-transl, mstly transp, with weath gran : text edges, pp moldic por, tan brn to blk st hvy brn SFO, sli odor, tr gas bubs, dull UV, some dolo off wht lt gry/green f vf xln gran sub chlky, chrt with chrt inclu aa</p>	
4656'	<p>180.4 az 92.4 deg @</p>		<p>91.3 deg @ 181.0 az</p>		<p>89.3 deg @ 180.6 az</p>		<p>88.9 deg @ 180.6 az</p>	
4657'			<p>dolo crm off wht lt gry green, vf xln gran soft silty gritty in prt, with lt gry frsh shrp opaq blk ang chrt inclu, tr weath gran edge, pp moldic por, stain drk hvy stain along chrt/dolo contact, chrt lt smokey gry shrp frsh blk opa, with sli weath gran sli trip text edge, pp moldic por, stain, gas bubs</p>		<p>dolo off wht lt gry/green f vf xln gran soft blkly fnly sucrc pcs, chrt in prt, chrt lt gry lt smokey gry, shrp frsh opaq semi transl, mstly transp, with weath gran sli trip text edges, pp moldic por, drk brn blk stained on edge, hvy blk SFO, gas bubs, scatt dull UV</p>			
4710	<p>4710</p>							



5360 5380 5400 5420 5440 5460 5480 5500

			4610 TVD						4610
opaq, sli trip ain, , with dns		chrt lt gry lt smokey gry to tan brn mott, frsh opaq gran, with weath gran sli trip text pp moldic por, tan brn stain, drk hvy SFO, gas bubs, sli odor, dolo crm off wht lt gry green f vf xln gran soft sub chlky stain drk grsy stain drk SFO				dolo pff wt ;t gry/greenish, f vf xln gran blk dns tr glau, pp inter xln por, drk tan brn stain, tr blk stain, chrt off wht lt gry to clr, opaq transp in prt, weath gran sli trip edge, pp moldic por, brn blk stain, tr hvy blk stain, odor? tr gas bubs dull scatt UV			dolo wht text, glau, in prt w/lt inclu, chr transl, so tan brn bl
4657' 89.1 deg @ 180.8 az		4658' 90.0 deg @ 180.3 az		4658' 90.2 deg @ 180.8 az		4657' 90.2 deg @ 180.8 az		4657' 89.9 deg @ 180.8 az	90
chrt off wht lt gry lt gry smokey with tan brn mott, shrp frsh opaq, semi transl, mstly transp, blk ang shrds with weath gran sli trip text edges, pp moldic por, tan brn stain, drk grsy SFO, gas bubs, dolo wht off wht lt green f vf xln dns blk ang soft sub chlky, tr glau, some chrty, chrty inclu, tan brn stain, drk SFO/brkn				chrt lt gry off wht lt smokey with tan drk brn mott weath sli trip gran edges, pp moldic por, tan brn drk brn hvy stain, dolo off wht lt gry green f vf xln blk ang sub chlky tr glau, pp interxln por tan brn stain, drk brn stain				dolo off wht lt gry green f vf xln dns blk agran sub chlky tr glau, some pp inter xln por, tr drk stain, chrt off wht lt gry some transp, opaq shrp ang blk pcs, with sli weath gran sli trip edges, tan brn some blk stain, tr gas bubs, scatt dull UV	
			4710						4710



5680 5700 5720 5740 5760 5780 5800 5820

4610 TVD 5730' 6 am Saturday June 22, 2013 4610 TVD

dolo off wht lt crm, lt greenish tint, f vf xln gran soft sub chlky, gritty sndy text, glau, tan brn stained mott in prt, pp inter xln por, chrt inclu, lt gry to clr transp with sli weath sli trip text, pp moldic por, tan brn some drk blk hvy stain, tr gas bubs, dull scat UV

chrt lt gry lt smokey gry and tan brn mott, shrp frsh gry with tan brn stained sli weath, sli trip text edges, pp moldic por, drk SFO, gas bubs, dolo crm lt gry/green f vf xln sndy gritty text tan brn stain, chrtly with chrt aa inclu

chrt lt gry, lt smokey gry, some off wht, shrp l opa semi transl, some transp, blk ang pcs, tan brn stained weath sli trip gran text edges, moldic por, tan brn stain, VSSFO/brkn, gas bl dolo crm lt gry green f vf xln gran gritty sndy chrtly, with chrt inclu aa, tan brn stain, tr hvy SFO

chrt lt gry vry lt smokey gry, shrp frsh opa, semit transl, mstly transp, bhk blk and shrds, dolo and chrtly dolo, off wht lt gry/green f vf xln gran blk ang some sndy gritty pcs, pp moldic por, tan brn stain hvy SFO, sli odor, gas bubs

chrt off wht lt gry, 1st smokey gry with tan brn stained sli weath sli trip text edges/sides, pp moldic por, pp por, tan brn stain, tr hvy blk stain, gas bubs, chrtly dolo, off wht lt gry/green f vf xln with chrt inclu aa, stain drk stain



6' g @ az

4655' 90.0 deg @ 180.6 az

4655' 90.0 deg @ 180.8 az

4655' 90.0 deg @ 180.8 az

4655' 90.0 deg @ 180.8 az

chrt lt gry vry lt smokey gry, shrp frsh opa, semit transl, mstly transp, bhk blk and shrds, dolo and chrtly dolo, off wht lt gry/green f vf xln gran blk ang some sndy gritty pcs, pp moldic por, tan brn stain hvy SFO, sli odor, gas bubs

chrt off wht lt gry, 1st smokey gry with tan brn stained sli weath sli trip text edges/sides, pp moldic por, pp por, tan brn stain, tr hvy blk stain, gas bubs, chrtly dolo, off wht lt gry/green f vf xln with chrt inclu aa, stain drk stain

chrt off wht lt gry, 1st smokey gry with tan brn stained sli weath sli trip text edges/sides, pp moldic por, pp por, tan brn stain, tr hvy blk stain, gas bubs, chrtly dolo, off wht lt gry/green f vf xln with chrt inclu aa, stain drk stain

chrt off wht lt gry, 1st smokey gry with tan brn stained sli weath sli trip text edges/sides, pp moldic por, pp por, tan brn stain, tr hvy blk stain, gas bubs, chrtly dolo, off wht lt gry/green f vf xln with chrt inclu aa, stain drk stain

chrt off wht lt gry, 1st smokey gry with tan brn stained sli weath sli trip text edges/sides, pp moldic por, pp por, tan brn stain, tr hvy blk stain, gas bubs, chrtly dolo, off wht lt gry/green f vf xln with chrt inclu aa, stain drk stain

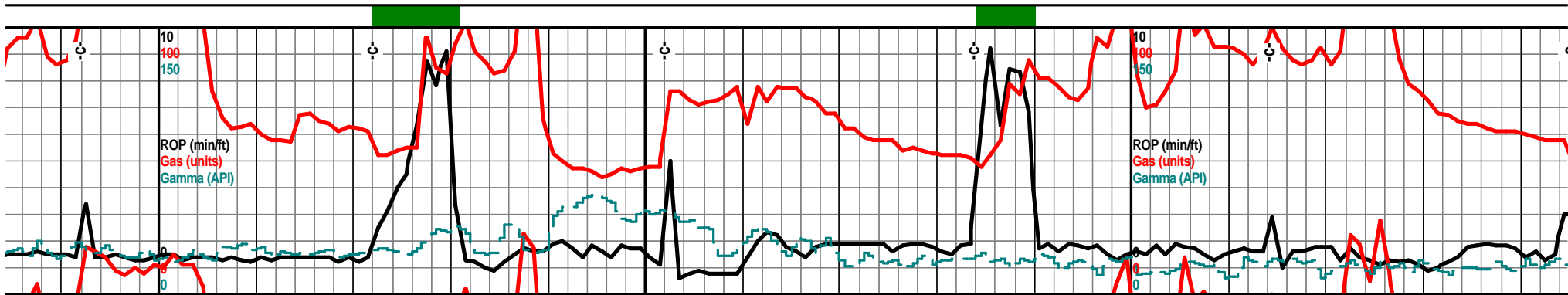
4710

Mud-Co. 5729' wt. 8.4 vis. 27 w/ N/C chl. 1,100

Mud-Co. 5729' wt. 8.4 vis. 27 w/ N/C chl. 1,100

4710

4710



6000 6020 6040 6060 6080 6100 6120 6140

4610 TVD 4610 TVD 6 am 6145 Sunday, Jun

ht lt gry lt smokey gry, shrp frsh opa, sl, some transp, with weath gran sli trip edges, pp moldic por, tan brn stained, gas bubs, chrty dolo off wht f vf xln glau with sli weath sli trip chrt inclu, brn SFO, gas bubs dull scatt UV

big incr chrt lt gry lt smokey gry, shrp frsh opa, semi transl, mstly transp, shrp blk ang shrds, with some with sli weath gran trip text edge, tr stain, tan brn drkr stain, pp moldic por, tr gas bubs/brkn, dolo off wht lt gry green f vf xln blk ang dns sub chiky chrty with chrt inclu aa

chrt off wht lt gry dull gry/tan shrp frsh opa semi transl, mstly transp, blk ang shrp shrds, tr edge stain, nodor, NSFO, dull scatt UV



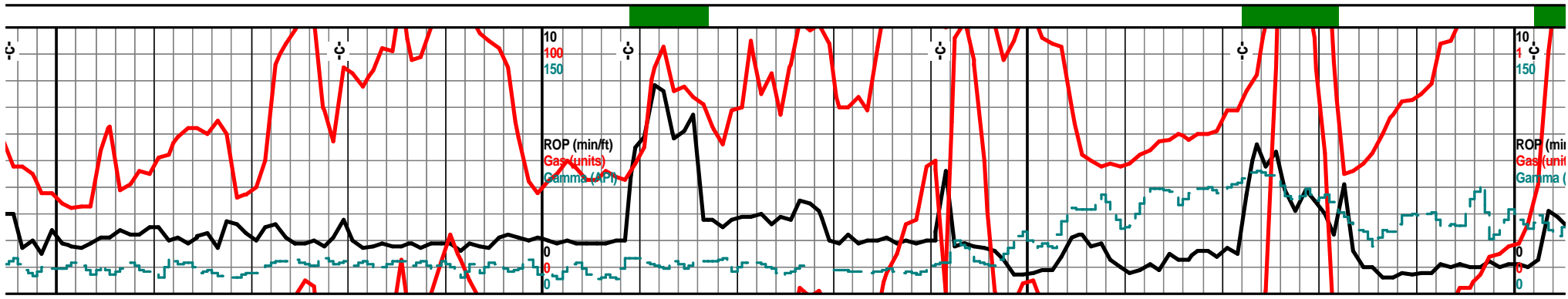
dolo wht off wht lt gry, green/gry f vf xln gran gritty sndy, tr glau, chrty, chrt off wht lt gry lt smokey gry shrp frsh, shrp opa, semi transl, dolomitic edges, tan brn stain, drk hvy stain, sli odor, gas bubs, brn SFO on brk.

chrt lt gry lt smokey gry, shrp frsh ang blk shrds, semi transl, mstly transp, vit, with sli weath, gran sli trip text edges, some pp moldic por, tan brn edge stain, tr gas bubs, scatt dull UV, 85% frsh-no show

chrt off wht lt gry milky gry, st transl, mstly transp, shrp blk gran edge, mstly frsh, tr edge some dolo wht off wht lt gry g sndy text, tr glau, tr chrty with inclu.

4710

4710



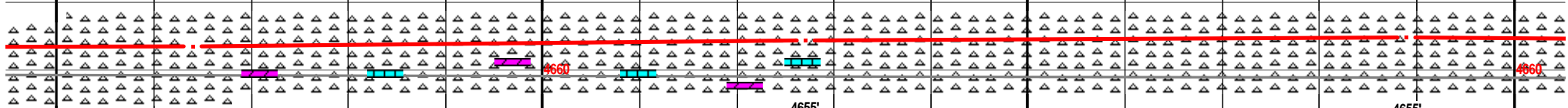
6160 6180 6200 6220 6240 6260 6280 6300

Bit Trip June 23, 2013 4610 TVD 6300' 7 am Mon June 24, 2013

chrt off wht lt gry shrp frsh, blk ang shrds, semi transl, mstly transp, with tr sli weath, gran vry sli trip text, pp moldic, some vis frac por, nodor, scatt dull UV

chrt off wht lt gry smokey gry, shrp frsh opa semi transl, some transp, blk ang shrds, with weath sli trip, some gran text, pp moldic por, tan brn stain along edge, w/chrt lst drk tan brn mott (fizz w/acid) f xln sub chlky with gry/smokey gry shrp chrt inclu with sli gran, sli weath chrt inclu AA

chrt lt gry vry lt smokey gry, off wht, shrpblk shrds, semi transl, mstly all transp. with some weath sli trip edge text, drk brn stain, drk brn SFO, tr gas bubs, dull UV, odor,



4656' 90.8 deg @ 182.5 az

4655' 91.1 deg @ 182.7 az

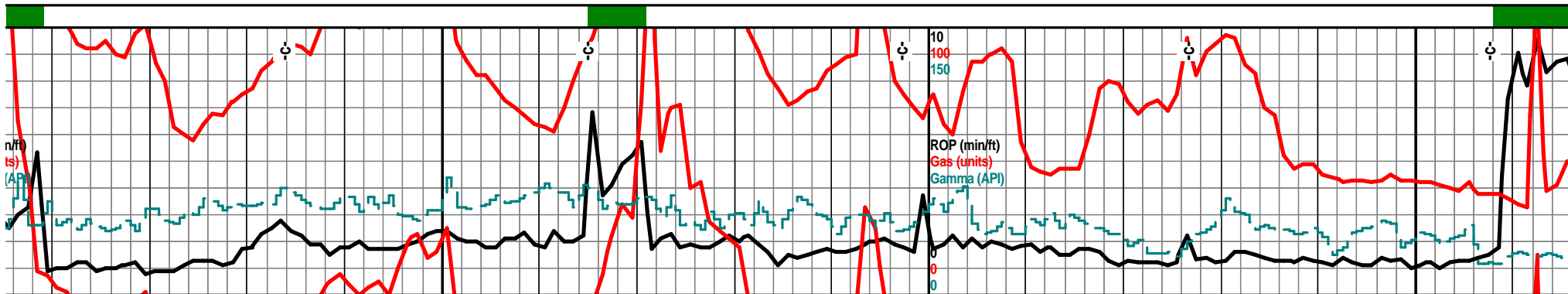
4655' 89.4 deg @ 181.8 az

vrp frsh opa, semi ang shrds, tr weath stain dull scatt UV, reen f vf xln gran lt gry frsh chrt

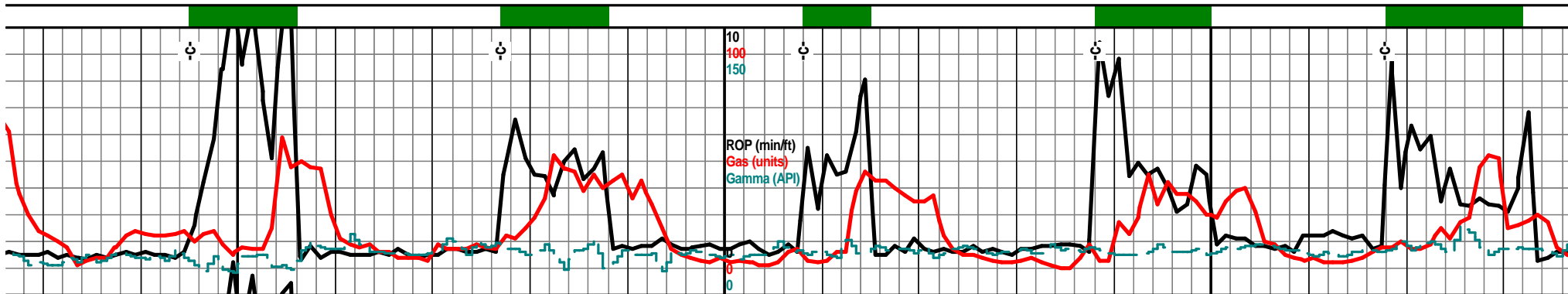
chrt off wht lt gry, lt smokey gry shrp frsh opa, semi transl, mstly transp, with sli weath, gran sli trip text edge, pp moldic por, some vis frac por, tan brn stain along weath edge, pp moldic por, tr hvy brn stain, nodor, dull scatt UV

chrt off wht lt gry, lt smokey gry, shrp frsh blk ang shrds, semi transl, some transp, dolo/lst tan brn mott (acid+) f xln sub chlky with lt gry smokey gry weath sli gran some sli trip text chrt inclu, pp moldic por, tan brn stain, VSSFO/brkn, tr gas bubs, nodor, dull scatt UV

4710 4710



Day	6320	6340	6360	6380	6400	6420	6440	6460
Day					Mud-Co. 6401 ⁿ			
wt.					wt. 8.5 vis. 30			
wl.					wl. N/C chl. 900			
ang		chrt off wht lt gry, lt smokey gry, shrp frsh opa, semi transl, mstly tranap, blkly ang shrps with sli weath edges, pp moldic por, drk tan, drk brn stain, gas bubs, dull UV			chrt lt gry lt smokey gry color, shrp frsh opa, blkly ang shrds, transl, mstly transp, chrt gry brn mott shrp frsh with weath sli trip text edges/sides, drk tan to drk brn stain, drk SFO w/brnkn, abun gas bubs, floating droplets			chrt lt gry off, semi transl, m some brn drk pp moldic por nodor, dull sc green tint f vf
					4655'			
					89.7 deg @			
					182.0 az			
	chrt off wht lt gry, milky, lt smokey color, shrp frsh blkly ang shrds, semi transl, mstly transp, with drk tan brn some blk stained sli weath edges, pp moldic por, brn drk brn stain, gas bubs, floating droplets, filmy SFO, fair odor, dull scatt UV			chrt off wht lt gry, smoke color gry, shrp frsh blkly opa ang shrds, semi transl, some to mstly transp, with si weath sli trip text edges, pp moldic por, drk tan brn stain, drk SFO, odor, dull UV				chrt gry, smokey gry, shrp frsh opa semi transl, transp, blkly ang shrds and chrt gry brn mott, shrp frsh with weath sli trip text edges/sides, drk brn stain, drk brn SFO, odor, pp moldic por, gas bubs, "floaters"
					4656'			
					88.9 deg @			
					180.1 az			
					4680			
					4710			



6640 6660 6680 6700 6720 6740 6760 6780

4610 TVD

6760' 7 am Tuesday
June 25, 2013

dolo chrty dolo, tan drk brn f sli med xln gran blk ang pcs, pp inter xln por, tn brn stain, drk brn SFO, filmy SFO/brkn, gas bubs, gd even UV, sli odor, chrt lt gry shrp frsh opa transp, shrp blk ang shrds, tr drk brn weath edge, spl 90% chrty dolo

chrt lt gry off wht and wht, shrp frsh opa, semi transl, some transp, shrp blk ang shrds, tr weath text with drk brn stain, dolo, chrty dolo f sli med xln with drk tan mstly brn/drk crm mott color, pp & inter xln por, drk tan to brn stain, drk SFO on brk, tr gas bubs, scatt dull UV,

chrt off wht, lt blue/gry, some smokey, shrp frsh opa transl, some transp, some with drk tan brn off wht mott f xln dolo edge, pp moldic inter xln por, drk tan brn stain, drk SFO on brk, gas bubs, dull scatt UV, dolo drk tan brn f vf xln gran, gritty tr glau, inter xln por, drk tan brn stain, drk SFO on brk tr gas bubs dull UV



4658'
88.7 deg @
182.0 az

4660'
88.3 deg @
181.7 az

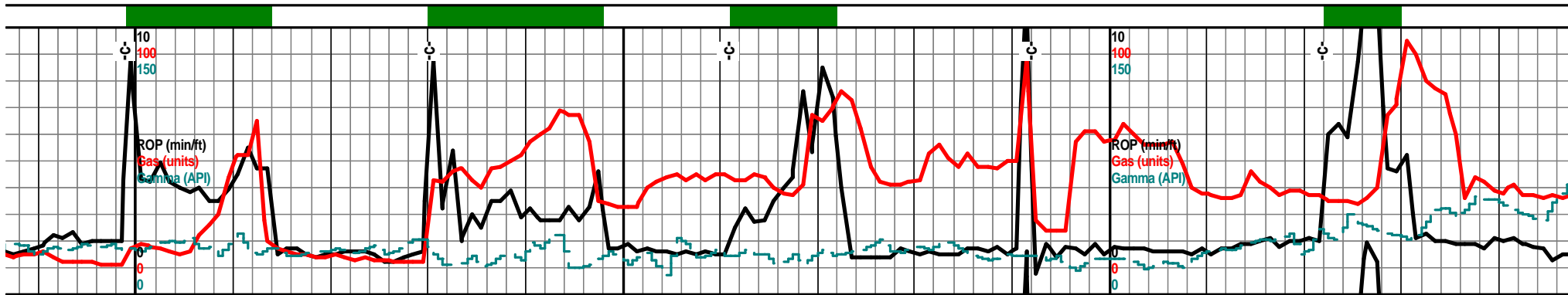
4662'
87.9 deg @
181.7 az

rp frsh opa with xt edges, tan brn trk SFO, sli odor, / greenish, f vf xln inclu

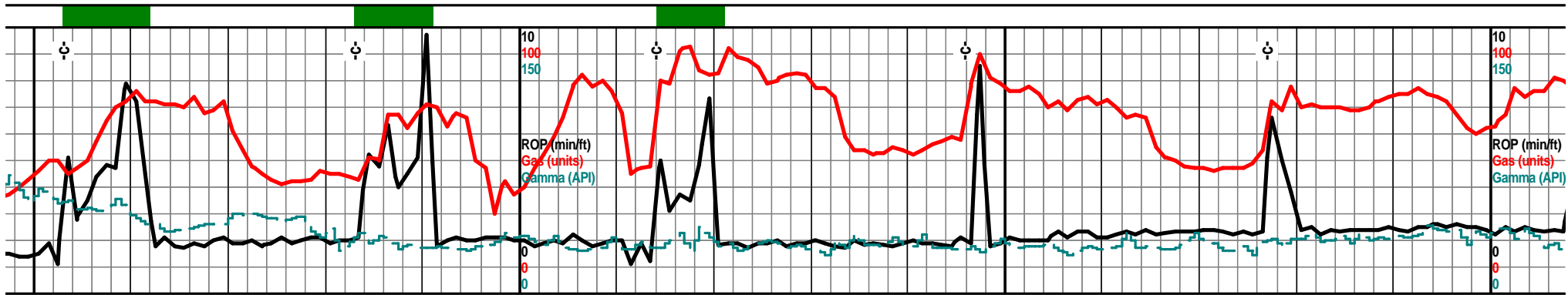
chrt wht, off wht, lt smokey gry, shrp frsh opa, transl, some transp, blk ang shrp shrds, dolo and chrty dolo, tan brn drk brn mott, f sli med xln, gran, blk ang pcs, pp inter xln por, drk tan/brn stain, drk SFO on brk, gas bubs

chrt sli blue/gry, some smokey gry frsh shrp opa with drk tan brn off wht mott f sli med xln dolo, pp moldic por, inter xln por, gran, tr glau, gd drk tan brn stain, drk brn SFO on brk, filmy SFO on brk, odor fair scatt dull UV

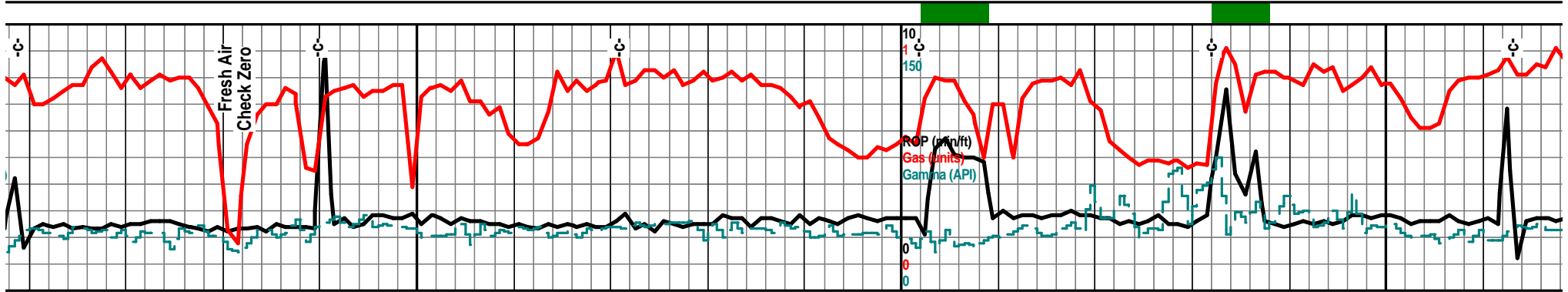
4710



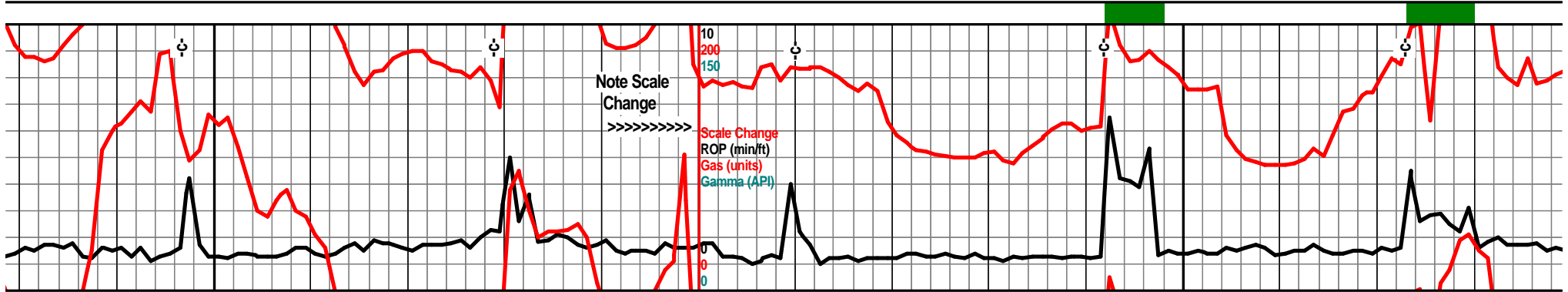
6800	6820	6840	6860	6880	6900	6920	6940
4610 TVD	Bit Trip 6830'				4610 TVD	6920' 6 am Wednesday June 26, 2013	
	<p>chrt off with lt gry smokey, tr blue gry shrp frsh opa, with tan drk brn wht mott f xln dolo edge, pp moldic, inter xln por, mstly tite dns, drk SFO on brk, tan drk tan brn stain odor? scatt dull UV, dolo tn brn gry brn f vf xln blkly ang dns gran tan drk brn stain,</p>				<p>chrt lt gry, lt milky smoke color, blue gry shrp frsh opa, some transp, with drk tan brn wht mott f xln dolo edge, pp moldic por, drk tan brn stain, drk SFO, filmy SFO, gas bubs odor,</p>		<p>chrt off wht lt gry vry lt milky/sm frsh opa, semi transl, mstly tran shrds, tr with tan drk brn gran dc stain, grsy hvy SFO, dolo lt gry g hrd blkly sub chlky glau, mixed t everything</p>
4660'	4663'	4662'	4661'	4658'	4656'		
	89.2 deg @ 181.5 az	92.1 deg @ 181.5 az	94.3 deg @ 182.0 az	94.3 deg @ 182.2 az	93.2 deg @ 181.3 az		
<p>chrt off wht lt gry shrp frsh opa semi transl, some transp, with drk crm tan brn mott weath dolo edges, tan brn stain, pp moldic por, inter xln por, tan drk brn stain, odor, drk brn SFO on brk, scatt dull UV,</p>	<p>chrt off wht lt gry smokey color, shrp frsh opa, with tan drk tan brn off wht mott f xln edge, pp moldic por, inter xln por, dns tite, drk brn stain, filmy SFO, floating droplets, scat dull UV, odor,</p>				<p>chrt off wht lt gry shrp frsh blkly ang shrds, semi transl, mstly all transp, some with drk tan brn f vf xln dolo edge, pp moldic por, brn stain, scatt UV, dolo lt gry green vf xln dns hrd pyritic, blkly sub chlky pcs, glau in most</p>		
4710	Mud-Co. 6830' wt. 8.5 vis. 30 wl. N/C chl. 950				4710		



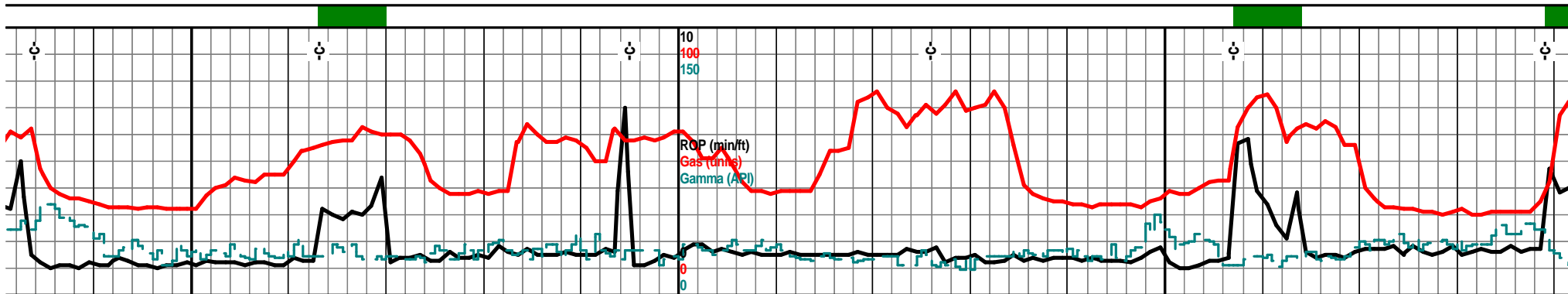
6960	6980	7000	7020	7040	7060	7080	7100
		4610 TVD					4610 TVD
okey gry, shrp isp, blk ang dolo edge, tan brn green, f vf xln dns rag spl, has		chrt off whtlt gry lt milky smokey gry, shrp frsh opaq, semi transl, mstly transp, blk ang shrp shrds, tr weath gran tan drk brn stained dolo edges, pp moldic por, por, tan brn stain, tr hvy blk stain SSFO, tr gas bubs, filmy SFO, nodor			chrt off wht lt gry lt smokey color, shrp frsh blk ang shrds, semi transl, mstly transp, chrt wht tan brn mott gran sli weath text, tan brn stained, pp moldic por, nodor, scatt UV, dolo gry mstly green f vf xln dns hrd gran gritty, glau with chrt inclu aa		
	4655' 91.8 deg @ 181.3 az	4654' 90.6 deg @ 181.0 az	4655' 88.8 deg @ 180.8 az	4655' 88.8 deg @ 181.0 az	4656' 88.8 deg @ 180.3 az		
	chrt off wht lt gry, lt milky smokey gry, shrp frsh opaq, semi transl, mstly transp, blk ang shrp shrds, tr with weath gran tan drk brn stained dolo edges, pp moldic por, tan brn stain tr hvy blk SFO, tr gas bub dull scatt UV nodor		chrt lt gry lst smokey gry shrp frsh opa, semi transl, mstly transp, blk ang shrp shrds, with sli weath gran sli trip text tan brn mott edges, pp moldic por, drk tan brn stain, filmy SFO on brk, sli odor?, dull scatt UV		chrt off wht lt gry lt smokey gry shrp frsh opa semi transl, some transp, with tan brn crm mott weath sli trip text edges, pp moldic por, tan brn stain, tr gas scat dull UV, lst/dolo wht off wht lt gry green, f vf xln gran gritty, sub chikky, chrt, glau, some soft		
	Mud-Co. 6990' wt. 8.5 vis. 31 wl. N/C chl. 900						
		4710					4710



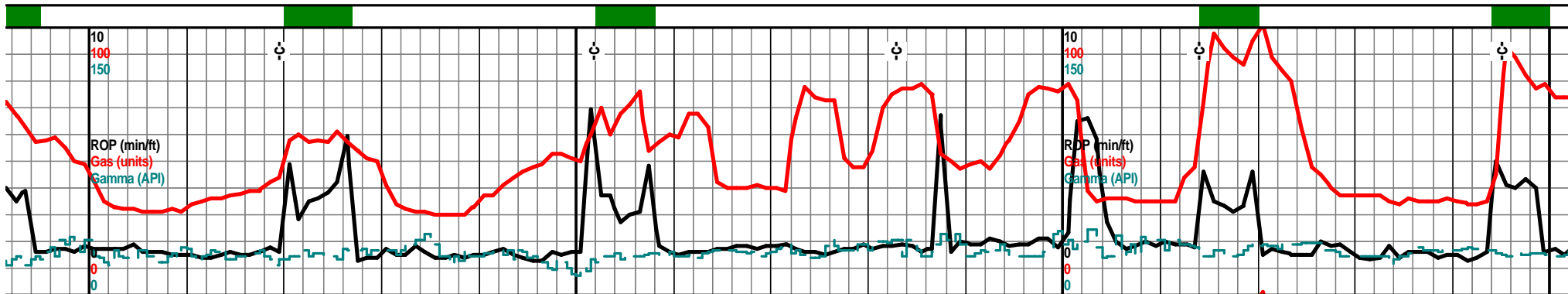
7120	7140	7160	7180	7200	7220	7240	7260
					4610 TVD		
<p>chrt off wht lt gry, lt smokey gry shrp frsh blk ang shrds, seimi transl, some transp, opa, with tan off wht vrn mott edges, sli weath dolo text, pp moldic por, tan brn stain, gas filmy SFO on brk, dolo/lt wht lt gry green f vf xln gran dns sub chlky some soft, glau with weath chrt inclu aa, nodor in any</p>		<p>chrt lt gry shrp frsh opa, transl, mstly transp, shrp blk ang shrds, chrt lt gry lt smokey color, shrp frsh opa with sli weath gran dolo edges, tan brn stain, pp moldic por, dolo off wht lt gry green f vf xln blk ang glau, tan brn stain, drk SFO, nodor in any</p>			<p>chrt vry lt gry, some lt smokey gry, mstly clr, semi opa, semi transl, mstly transp, shrp blk ang shrds, some with tr sli dolo weath edge text, tan brn stain, pp moldic por, dolo off wht crm, wht, f vf xln gran chrt text, glau, inter xln por, tan brn stain, tr tan brn stain, dull scatt UV, nodor in any</p>		
4656'		4657'		4658'		4658'	
89.1 deg @ 180.8 az		88.8 deg @ 180.3 az		88.9 deg @ 179.9 az		90.2 deg @ 179.9 az	
		<p>chrt vry lt gry shrp frsh opa transp, blk ang shrds, chrt lt gry smokey color, shrp frsh opa tr transl, with weath gran dolo text edges, pp moldic por, inter xln por, tan brn stain, tr hvy brn stain tr floating droplests, dull scatt UV</p>			<p>chrt vry lt gry to clr, lt smokey gry shrp frsh, semi transl, mstly transp, blk ang shrds, tr sli weath tan brn stained edge, pp, moldic por, dolo off wht lt gry crm, f xln gran gritty some sndy text, glau, inter xln por, tan brn stain, filmy SFO on brk, scatt dull UV</p>		<p>chrt lt gry to clez transl, mstly trar text, lt tan brn d lt brn stain, dolo tint, chrt inclu a sndy/chrt text, i stain, tr scatt du</p>
					4710		



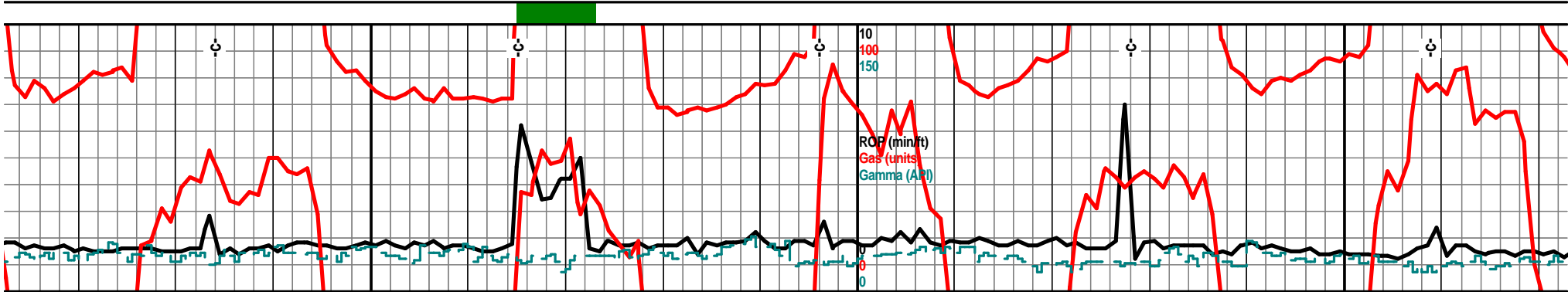
7440	7460	7480	7500	7520	7540	7560	7580	
			4610 TV	7510' 6 am Friday June 28, 2013				
rp frsh blk rt tan brn an brn oldic some bs on	chrt off wht lt gry, lt smokey gry, shrp frsh ang blk shrds, semi transl, msly transp, drk tan brn stained color, drk tan brn sli weath edge text, pp moldic por, brn SFO, gas bubs on brk, sli odor,		chrt off with lt gry smokey gry, tr blue/gry, shrp frsh opa, semi transl, transp in prt, tan brn stained weath edges, pp moldic por, drk tan brn SFO o brk, tr gas bubs, chrt tan brn crm mott, trip weath text, pp moldic por, tan brn stain drk SFO on brk, gas bubs, dull scatt UV					
4656' 90.9 deg @ 179.6 az	4655' 91.4 deg @ 179.9 az	4654' 91.7 deg @ 180.1 az	4653' 91.8 deg @ 179.9 az	4652' 91.6 deg @ 180.6 az	92.:			
chrt lt gry, smokey gry, tan brn stained color, shrp frsh blk opa, ang shrds, tan brn stain, sli weath edge text, pp moldic frac por, tan brn stain, drk tan/brn SFO/Gas bubs on brk, tr hvy brn SFO, oil floaters, dull scatt UV		chrt off with lt smokey, lt blue gry, shrp frsh opa transl, sli transp in prt, with tan brn off wht mott weath text edges, pp moldic por, drk tan brn stain, sli odor, SFO (drk brn) when brkn, tr gas bubs, dull scatt UV			chrt off wht, lt gry, smokey gry, tr blue gry shrp frsh opa, transl, some transp, with off wht tan brn mott weath edges, weath trip text, pp moldic por, drk tan brn stain, drk tan brn SFO on brk, gas bub on break, tr floating oil drops, dull scatt UV. sli odor??			
				Mud-Co. 7530' wt. 8.4 vis. 30 wl. N/C chl. 900				
			4710					



8240	8260	8280	8300	8320	8340	8360	8380
			4610 TVD				
chrt off wht lt gry lt smokey gry, shrp frsh opa, blk ang shrds, semi transly msly semi transp, with chrt lt gry brn mott with sli weath drk tan brn stained edges/sides, drk brn stain/ssfo, filmy sfo, tr gas bubs odor?? scatt UV			chrt off wht lt gry smokey gry shrp frsh opa semi transl, some transp, shcrt blyk ang shrd with some sli weath sli trip edge text, pp moldic por, drk tan brn stained edges/sides,			chrt off wht lt gry, lt smokey gry shrp frsh opa, semi transl, sli transp, shrp blyk ang shrds, with chrt lt gry smokey with drk tan brn stained edges/sides, tr pp moldic por, VSSFO on brk, tr gas on brk, dull scatt UV nodor,	
4655' 87.9 deg @ 181.5 az	4656' 88.6 deg @ 182.2 az	4657' 88.4 deg @ 181.6 az	4658' 88.0 deg @ 182.0 az	4659' 88.2 deg @ 182.7 az			
key gry, shrp frsh opa, ang shrds, chrt gry brn s/sides, pp moldic por, s/sides, filmy SFO, tr Gas IV	chrt off wht lt gry lt smokey gry, shrp frsh blyk ang opa semi transl, some transp, with sli weath drk tan brn stained edges sides, sli weath text moldic and pp por, drk tan brn stain, VSSFO, filmy SFO some floaters, scatt gas bubs, nodor scatt UV	chrt off wht lt gry lt smokey gry, shrp frsh semi opa, some transp, transl in prt, shrp blyk ang shrds, with chrt gry drk tan brn mott, drk tan brn sli weath edges/side, drk tan brn stain, odor?, tr gas bubs					chrt o and s drk ta brn st UV
			4710				



8400	8420	8440	8460	8480	8500	8520	8540
4610 TVD					4610 TVD	8515' 6 am Tuesday July 2, 2013	
	chrt off wht lt gry, lt smokey gry, shrp frsh opa, semi transl, mstly transp, blk ang shrds, chrt off wht lt gry with drk tan brn sli weath edges/sides, pp tr moldic por, brn stain, sli odor, SSFO on break, some floating oil drops, dull scatt UV			chrt off wht lt gry, lt gry smokey color, shrp frsh blk ang shrds, semi transl, mstly transp, 50-50 split of chrt aa and chrt drk tan brn frsh shrp opa with sli weath edges/sides, drk tan brn stained edges with filmy SFO, floaters, tr gas bubs, dull scatt UV			chrt off wht lt gry lt smokey semi transl, semi tranap, wr edges, sides, some weath e por, drk brn stain, SSFO on bubs, scatt dull UV
4660' 88.8 deg @ 183.2 az		4660' 89.9 deg @ 182.5 az		4660' 91.1 deg @ 183.0 az		4659' 91.5 deg @ 182.2 az	4658' 90.7 deg @ 181.5 az
off wht lt gry smokey shrp frsh opa, blk hrds, transl, mstly transp, milky opa, with in brn stained sli weath edges/sides, drk tan taine, SSFO on brk, tr gas/brk nodor, scatt			chrt lt gry off wht, lt smokey gry, shrp frsh semi opa, transl, mstly transp, 50-50 split of frsh no show and drk tan brn frsh with sli weath edge/side, drk tan to brn stained, filmy SFO/gas bubs on brk, sli odor, scatt dull UV			chrt off wht lt gry lt smokey gry shrp frsh opa, transl, semi transp, with sli weath drk tan brn stained edges/sides, pp moldic por, drk brn stain, sli odor, gas bubs, drk SSFO, scatt dull UV and lst/dolo wht off wht f xln chrt, chrt inlcu, glau	
4710					4710		



8720 8740 8760 8780 8800 8820 8840 8860

chrt, mix of off wht lt gry lt smokey shrp frsh opa, transl, some transp, blk ang shrp shrds, with sli weath edge, tan lt brn stained edges/sides, some pp moldic por, sli odor, dull scatt UV

chrt off wht lt gry, smokey gry, shrp frsh opa, semi transl, bec more transp, shrp blk ang shrds, less show, some chrt off wht lt gry with sli weath sli stained edges/sides, tr odor?, scatt rare dull UV

chrt, off wht lt gry lt smokey gry, shrp frsh opa, semi transl, transp in rpt, shrp blk ang shrds, with tr sli weath tan brn stained edges/sides, some pp moldic por, drk tan lt brn stain, nodor, scatt UV

4610 TVD

4660



4662'
88.9 deg @
182.2 az

4662'
88.6 deg @
182.5 az

4663'
89.6 deg @
182.7 az

4663'
89.4 deg @
182.3 az

4663'
89.6 deg @
182.5 az

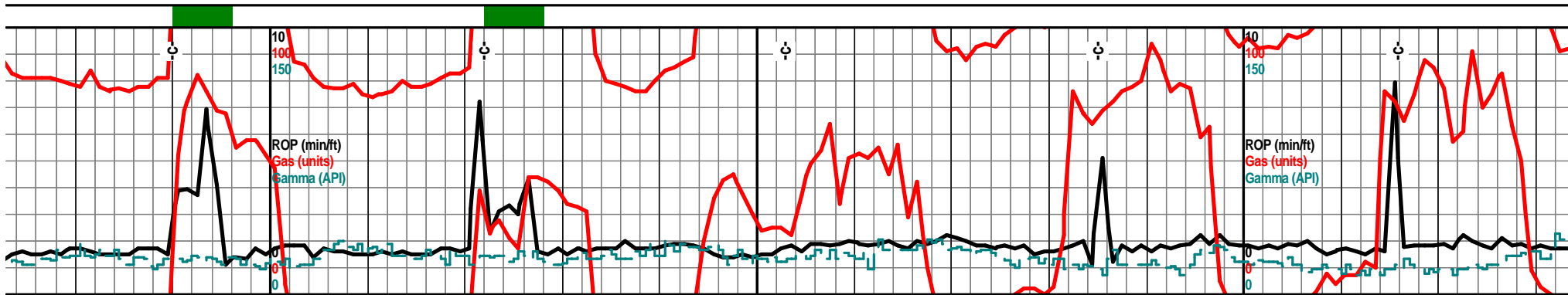
transl,
:hrt lt gry
tan lt brn
dor in prt,

chrt as before, mix of off wht lt gry lt smokey gry shrp frsh opa, semi transl, some trans, shrp blk ang shrds with tr weath tan lt brn stained edges/sides, some pp moldic por, sli odor, tr filmy SFO, scatt dull UV

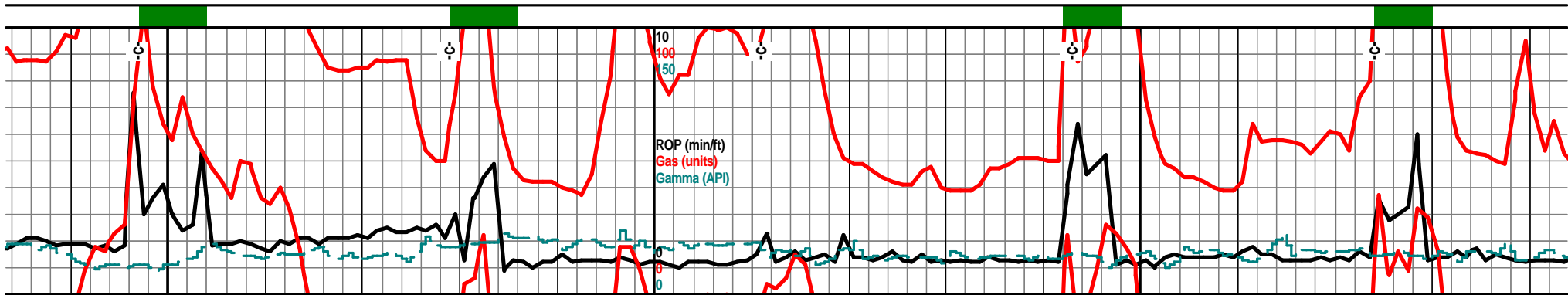
chrt off wht lt gry lt smokey gry, shrp frsh opa, semi transl, transp in prt, shrp blk ang shrds, with tr sli weath tan brn stained edges/sides, some pp moldic por, drk tan lt brn stain, nodor, scatt UV

chrt o
semi |
shrds
some
UV, n

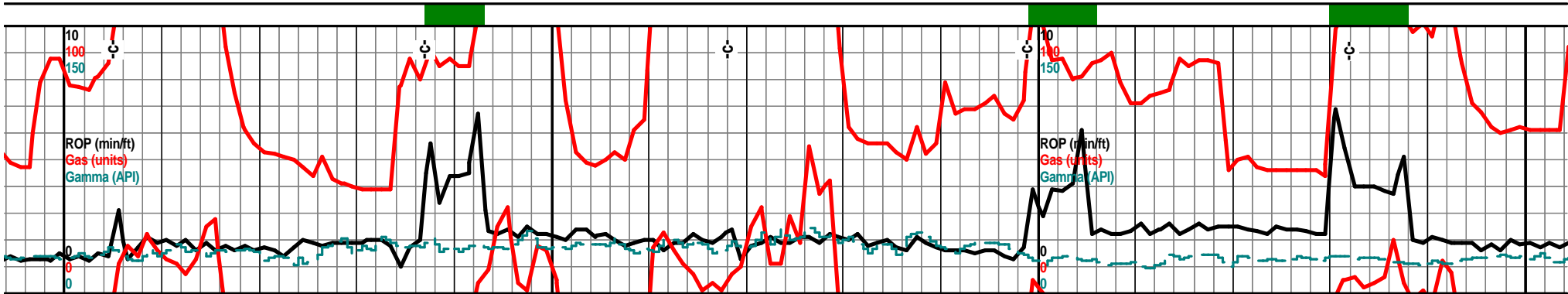
4710



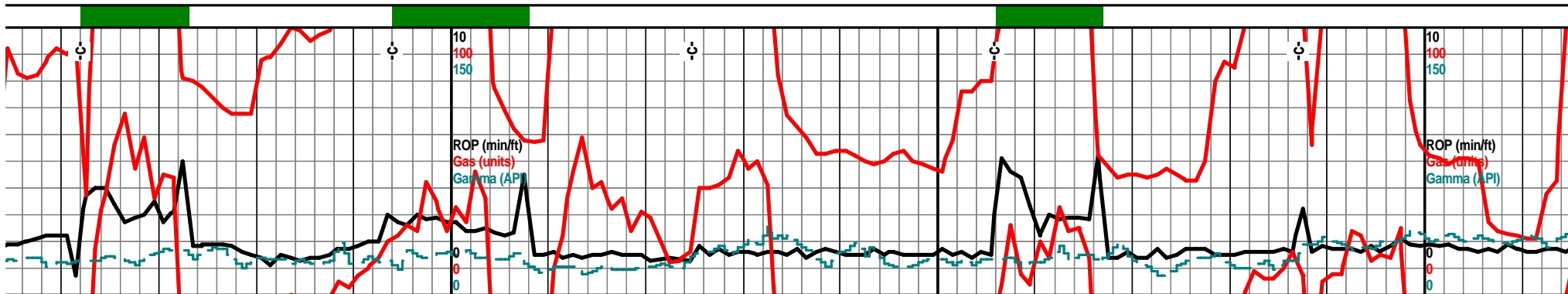
8880	8900	8920	8940	8960	8980	9000	9020
	4610 TVD				8975' 6 am Wednesday July 3, 2013	4610 TVD	
	chrt off wht lt gry smokey color gry, shrp frsh opa, semi transl, some transp, shrp frsh blk ang shrds, with some tan brn drk brn stained sli weath edge/side text, some pp moldic por, tr filmy SFO, scatt dull UV				chrt off wht lt gry smokey gry shrp frsh opa, semi transl, mstly transp, blk ang shrp shards, with sli weath tan brn stained edges, pp moldic por, tan brn staine sli odor, VSSFO on brk, tr gas bubs on brk, dull scatt UV		chrt off wht lt gry, lt smok semi transl, some transp, weath edges, tan brn stain VSSFilmy oil, sli odor? du
	4660					4660	
4664' 89.6 deg @ 183.4 az	4664' 89.9 deg @ 182.2 az		4664' 90.4 deg @ 182.2 az		4663' 90.5 deg @ 182.5 az	4663' 90.7 deg @ 182.9 az	4663' 90.1 deg @ 183.6 az
chrt off wht lt gry lt smokey color, shrp frsh opa, semi transl, some transp, shrp frsh blk ang shrds, with sli weath tan brn stained edges/sides, pp moldic por, drk tan brn stain, dull scatt odor, some filmy SFO, floaters			chrt off wht lt gry lt smokey color, shrp frsh opa, semi transl, mstly transp, shrp blk ang shrds, with some sli weath tan lt brn stained edges/sides, tr pp moldic por, sli odor, dull scatt UV			chrt lt gry, lt smokey try shrp frsh opa, semi transl, some transp, shrp blk ang shrds, some with sli weath drk tan lt brn stain edges/sides, tr pp moldic por, tan brn stain/SSFO on brk, tr gas on brk, fleeting odor, dull scatt ZUV	
	4710					4710	



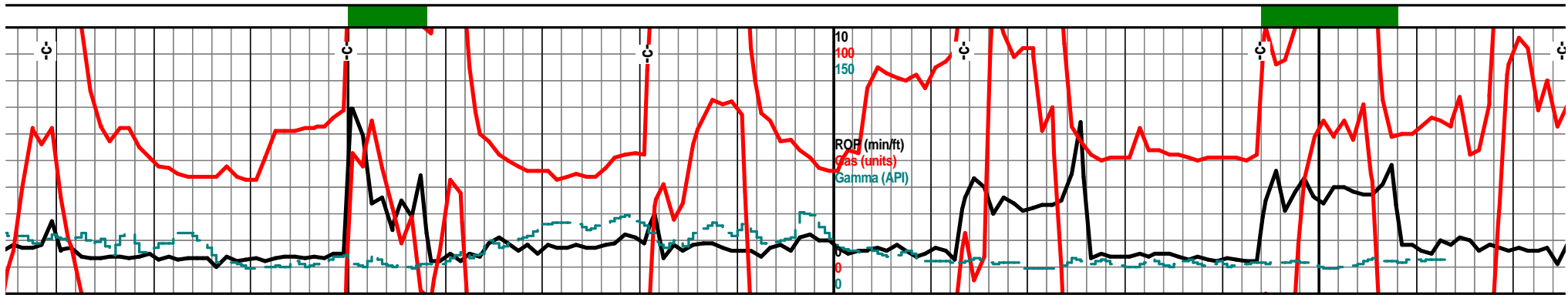
9040	9060	9080	9100	9120	9140	9160	9180
		Bit Trip 9079' Pull # 9	4610 TVD				9174' 6 am Friday July 5, 2013
ey gry, shrp frsh opa, with chrt aa bec sil red weath edges, ill scatt UV		Bit trip and rig repair sample, mstly all pump sweep material, Beads, Nutplug, tr cedar fill				chrt lt gry, lt smokey gry shrp frsh opa, prtly transl, mstly transp, blk ang shrp shrds some with sli weath drk tan brn stained edges/sides, some pp moldic por, sli odor, SSFO & gas bubs on brk, scatt dull UV	
63' leg @ 183.1 az	4663' 89.4 deg @ 183.1 az	4663' 88.7 deg @ 182.0 az	4664' 88.6 deg @ 182.2 az	4665' 88.2 deg @ 181.7 az	4666' 88.9 deg @ 182.2 az		
	chrt lt gry off gry, dull gry, lt smokey color, shrp frsh opa ang shrds, semi transl, some transp, with some tan brn stained sli weath edges/sides, filmy SFO, tr gas bubs, tr drk brn hvy stain dull scatt UV, odor??		chrt off wht lt gry lt smokey gry shrp frsh opa, semi transl, mstly transp, frosty, with chrt lt gry smokey shrp frsh opa with sli weath drk tan brn stained edges, pp moldic por, sli odor, gas bubs scatt dull UV		chrt off wht lt gry smoke color, shrp frsh frosty blk ang shrds, semi transl, mstly transp with some sli weath drk tan brn stained edges, pp moldic por, drk tan brn stain, VSSFO/gas bubs brk, dull scatt UV		
	Rig Repairs @ 9079 Thursday, 6 am July 4, 2013		4710				



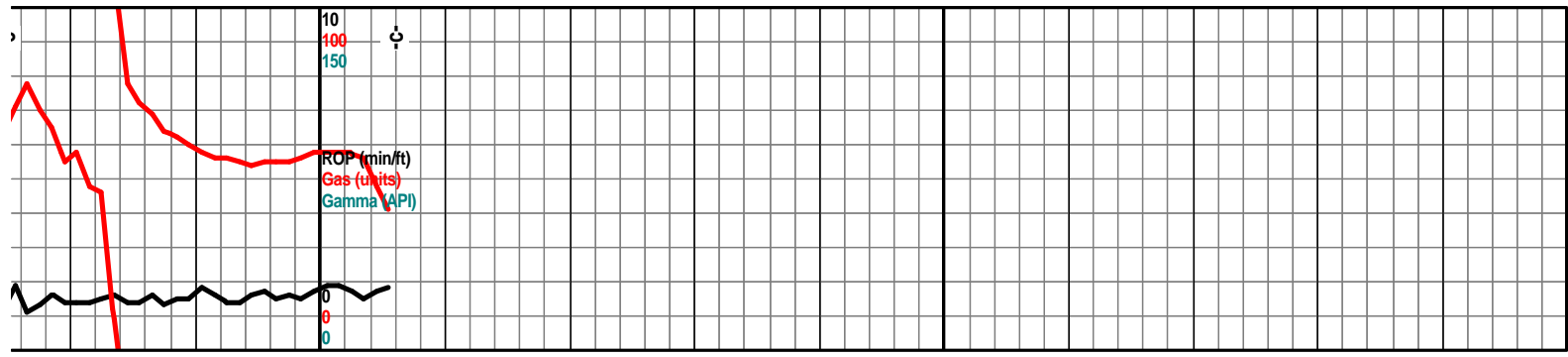
9200	9220	9240	9260	9280	9300	9320	9340
4610 TVD					4610 TVD		
<p>chrt off wth lt gry smokey gry shrp frsh opa semi transl, mstly transp, shrp blk ang shrds, incr chrt aa with tan brn stained sli weath text, tan brn stain, pp moldic por, drk brn SFO, gas bubs, scatt dull UV, odor??</p>			<p>chrt off wth lt gry lt smokey gry semi opa, frosted, semi transl, mstly transp, shrp frsh blk ang shrds, chrt aa with sli weath drk tan brn stained edges/sides, drk hvy SFO, tr gas bubs, some floaters, dull scatt UV, nodor!</p>			<p>chrt off wth lt gry, smokey color, shrp frsh opa, frosty text, semi transl, some transp, blk ang shrds, with chrt aa with some sli weath sli trip edges/sides, pp moldic por, drk tan brn stain, drk brn SFO, floaters, hvy brn SFO, sli odor, dull UV, some loose gas bubs, lst wth f vf xln, blk ang sub chlky, tr glau</p>	
<p>4666' 89.1 deg @ 182.0 az</p>			<p>4667' 89.8 deg @ 181.1 az</p>			<p>4666' 90.3 deg @ 181.0 az</p>	
<p>chrt off wth lt smokey gry shrp frsh opa, blk ang shrp shrds, transl, mstly transp with drk tan brn stained sli weath chrt aa with pp moldic edge/side por, drk tan brn stain, SSFO, tr gas bubs nodor, dull scatt UV</p>			<p>chrt off wth lt gry lt smokey gry, semi opa, frosted text, transl, mstly transp, shrp ang shrds, with chrt aa and sli weath sli trip edges/sides, drk tan brn stain, hvy brn SFO, Filmy SFO, gas bubs, odor, scatt UV</p>			<p>chrt off wth opa, semi shrds, chrt : edges/sides FO, filmy S fair odor</p>	
<p>Mud-Co. 9265' wt. 8.4 vis. 30 wl. N/C chl. 800</p>							
4710					4710		



9360	9380	9400	9420	9440	9460	9480	9500
		4610 TVD					4610 TVD
	chrt off wht lt gry lt smokey gry, shrp frsh opa, semi transl, mstly tansp, blk ang shrds, with sli weath some sli trip text drk tan brn stained edges, sides, pp moldic por, drk stain, drk SFO, tr gas bubs, scatt UV odor??			chrt incr frsh, lt gry smokey shrp frsh opa, semi transl, mstly opa, shrp blk shrds, frosty text, some with drk tan brn stained sli weath sli trip text edges, sides, pp moldic por, drk tan brn SSFO on brk, tr gas on brk, odor?, scatt UV			chrt off wht frost smokey gry ang shrds, with tr sli weath e brn stained edges, some pp stain/sfo on break, dull scatt shows
		4660				4672' 85.6 deg @ 179.7 az	4660
		4667' 88.3 deg @ 180.1 az	4668' 86.4 deg @ 180.8 az	4670' 86.3 deg @ 179.9 az			4675' 85.4 deg @ 179.9 az
lt gry smokey frosty gry, shrp frsh transl, some transp, shrp blk ang aa with drk tan brn weath sli trip text s, pp moldic por, tan brn stain, SS brn iFO, gas bubs on brk, scatt dull UV ,			chrt off wht lt gry, smokey gry shrp frsh opa semi transl, mstly transp, frosty text, shrp blk ang shrds, with some sli weath sli trip text edges/sdies, pp moldic por tan brn stain, drk SFO sli odor, dull scatt UV			chrt off wht lt gry smokey gry, frosty gry, shrp frsh blk ang shrds, semi transl, mstly transp, with incr drk tan brn sli weath, sli trip text edges/sides, pp moldic por, drk tan brn stain/SSFO w/Brkn, sli odor?? scatt UV	
		4710					4710



9520	9540	9560	9580	9600	9620	9640	9660
				4610 TVD		9644' 6 am Saturday July 6, 2013	
r, shrp frsh opa, blk dge/sides, drk tan moldic por, drk brn UV nodor, dec vis			chrt off wht lt gry smokey color gry shrp frsh semi opaq, transl, transp in most, shrp blk shrds, with tr weath gran sli trip edge text, pp moldic por, drk tan brn edge stain, filmy SFO, drk brn SFO, gas bubs sli odor, dull scatt UV			chrt gry lt gry smokey gry shrp frsh opa transl, some transp, shrp blk shrds, chrt gry tan brn mott shrp frsh with gran sli trip text edges, pp moldic por, much drk tan brn stained edges, drk tan brn SFO, filmy SFO, floating drops, gas bubs, dull scatt UV	
				4660			chrt off wht lt gry lt smokey gry, shrp frsh opa, chrt lt gry smokey/tan brn mott in prt, gran sli text semi weath text, pp molc por, drk tan brn stained edges/sdies, drk tan brn SFO, filmy SFO on brk, tr gas bubs, sli odor, floaters
	4677' 86.1 deg @ 178.5 az		4679' 86.9 deg @ 178.7 az	4681' 87.0 deg @ 178.0 az	4683' 85.5 deg @ 177.8 az		4686' 84.2 deg @ 178.20 az
	chrt off wht lt gry, frosty gry, shrp frsh opa semi transl, some transp, shrp blk shrds with weath sli trip text edges/sides, drk tan brn stained edges, pp moldic por, drk brn SFO, odor, scatt UV			chrt off wht lt gry smokey color gry shrp frsh blk ang shrds, semi opa, sli transl, some transp with sli weath some gran text edges, drk tan brn stained edges, pp molc por, tr gas bubs, sli odor, drk brn stain, some SFO on brk			
				4710			



9680 9700 9720 9740 9760 9780 98

<p>4610 TVD</p> <p>chrt off with lt gry, smokey gry, frsh shrp blk ang shrds, semi transl, some transp, with chrt gry tan brn mott, shrp frsh with weath gran sli trip text edges/sides, pp moldic por, drk tan brn stain, drk tan brn SFO, gas bubs on break fair odor</p>	<p>Woolsey Operating Company Michel 1 H 2246' FNL & 1480' FEL Apx NE SE SW NE Sec 7 - Twp 34 South - Rge 11 West Rhodes South Field Barber County, Kansas API 15-007-24002-01-00</p>
<p>4660</p>	
<p>4690'</p> <p>84.2 deg @</p> <p>178.20 az</p> <p>4710</p>	