

Woolsey Operating Company, LLC

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

Well Name: Jahay #6 H
Location: Section 6 - Township 34 South - Range 10 West
License Number: 15-007-23946-01-00 Region: Barber County KS
Spud Date: October 18, 2012 Drilling Completed: November 12, 2012
Surface Coordinates: NE NE NE NW
315' FNL, 2430' FWL
Bottom Hole
Coordinates:
Ground Elevation (m): 1455' K.B. Elevation (m): 1472'
Logged Interval (m): 3900 To: 8980' Total Depth (m): 8980'
Formation: Kansas City Group -----> Mississippian
Type of Drilling Fluid: Chemical Mud, Water/Flo-Zan

Printed by WellSight Log Viewer 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

Drilling Info

Drilling Fluids: Mud-Co. Brad Bortz, Engineer
 Gas Detector: Woolsey Operating Co, Gas Trailer #2

Dan D Drilling Rig 11 bit record: 1) 17 1/2" JZ RT, 2) 12 1/4" HTC RT, 3) 8 3/4" RTC DSX 616, 4) 8 7/8" RTC DSX 818, 5) 8 7/8" RTC R-23A PDH, 6-10) 6 1/8" RTC R-50-PDH








































































Crews

Tool Pusher: Steve Ellington, Sammy Fry, Relief
 Drillers: 7 day-12 hour tours, Johnnie Stone, Terry Stark, Andy Braziel, Jack Lambert. Assorted Okie roughnecks.
 Woolsey Operating company men: Mike Tharp, Donald Boyd.

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

- Even

Spotted

- Q Ques
- D Dead

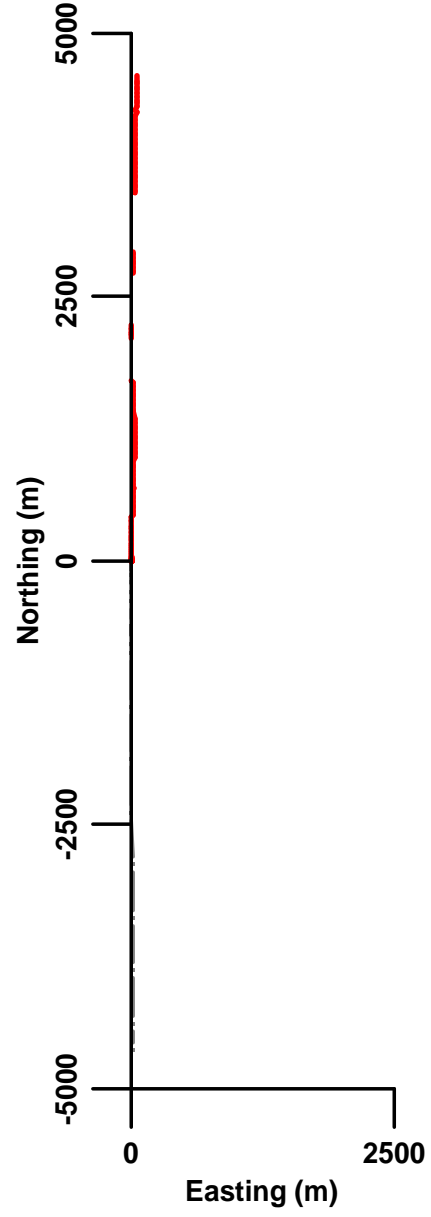
INTERVAL

- Core
- Dst

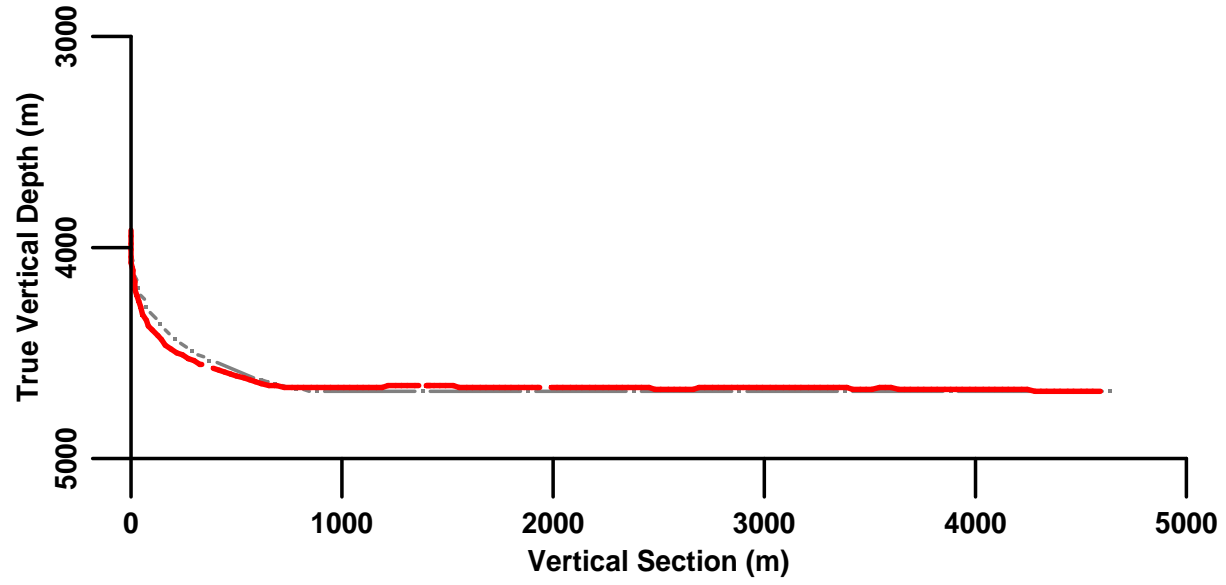
EVENT

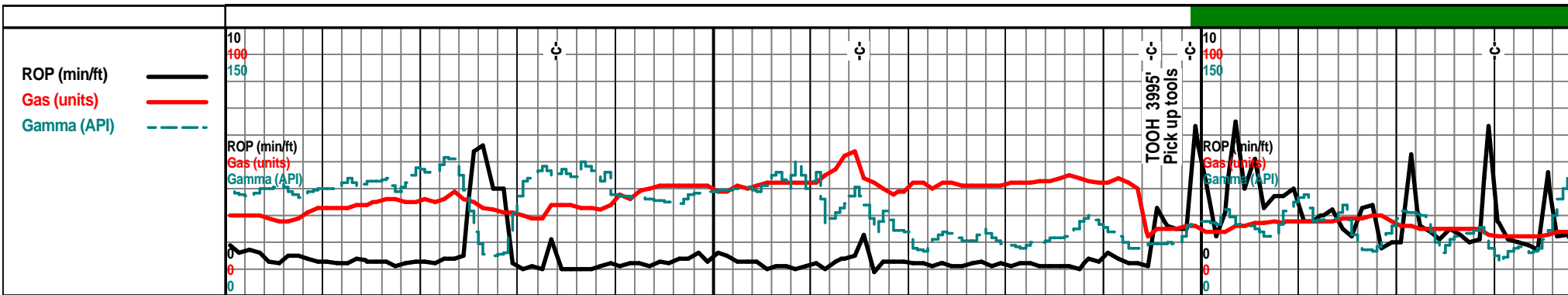
- Rft
- Sidewall

Plan



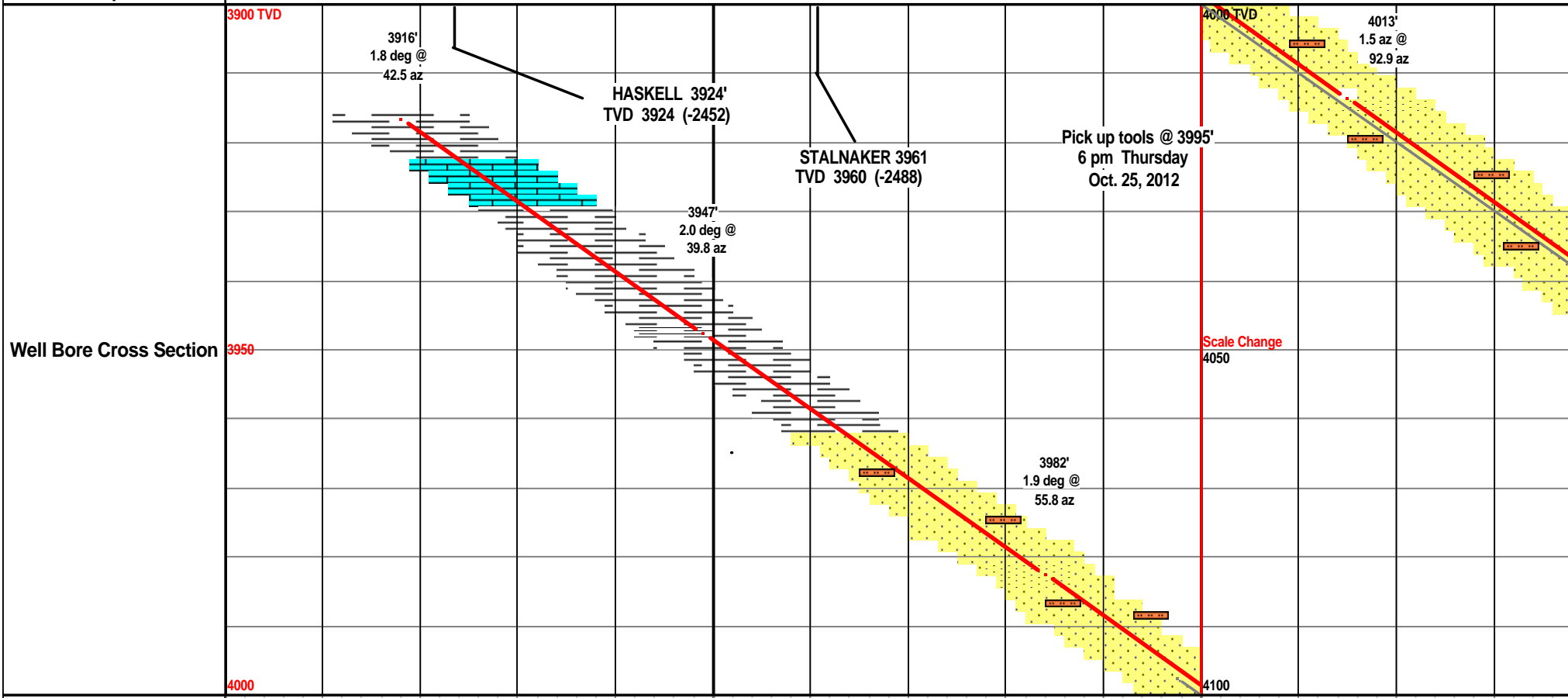
Elevation





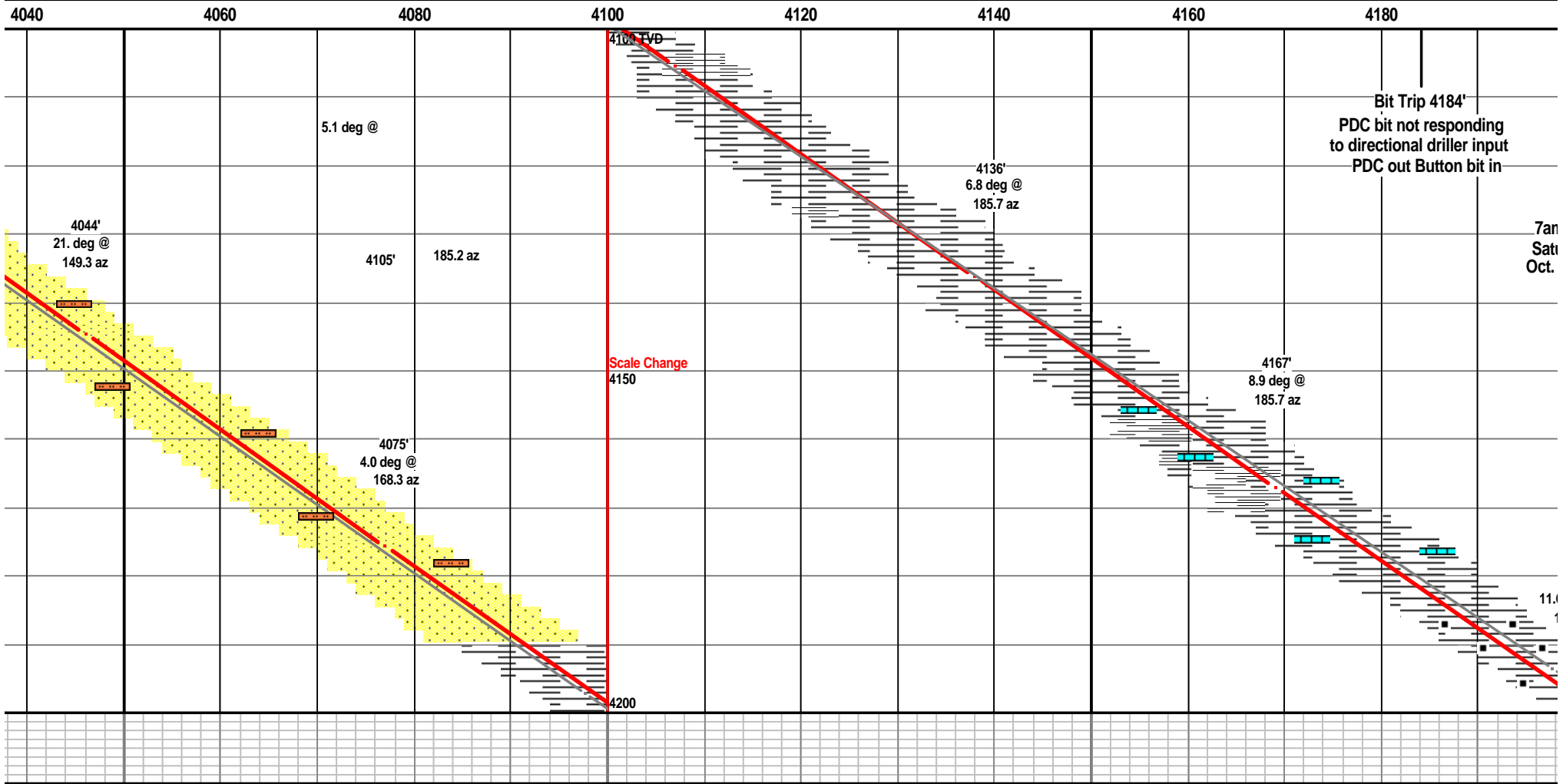
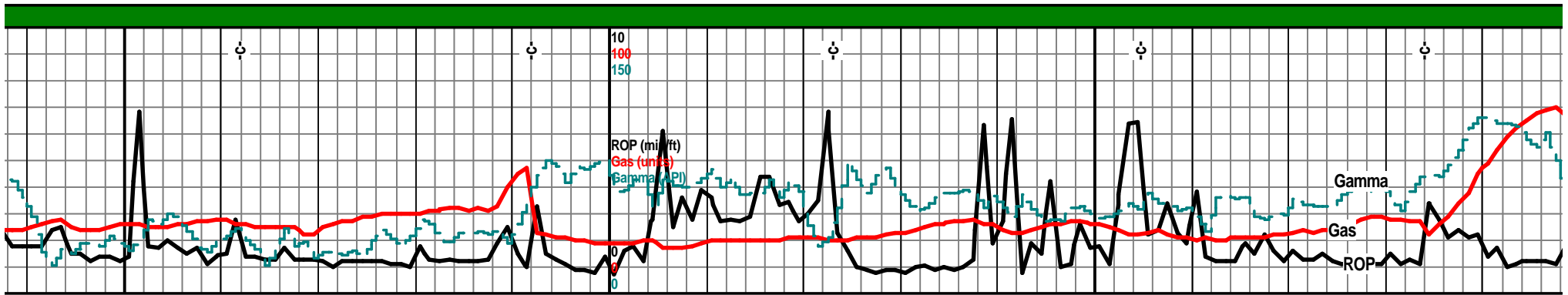
Oil Shows

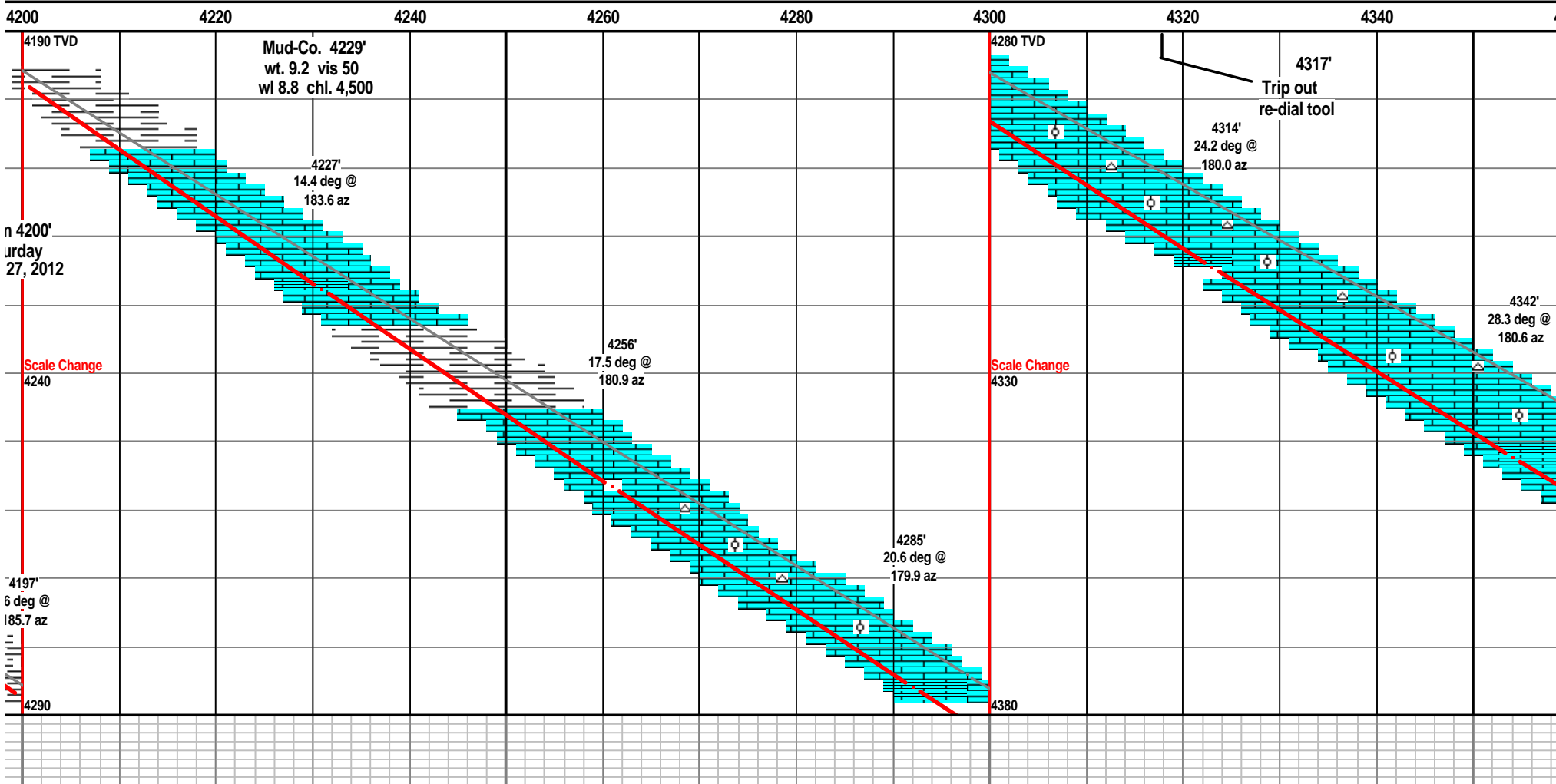
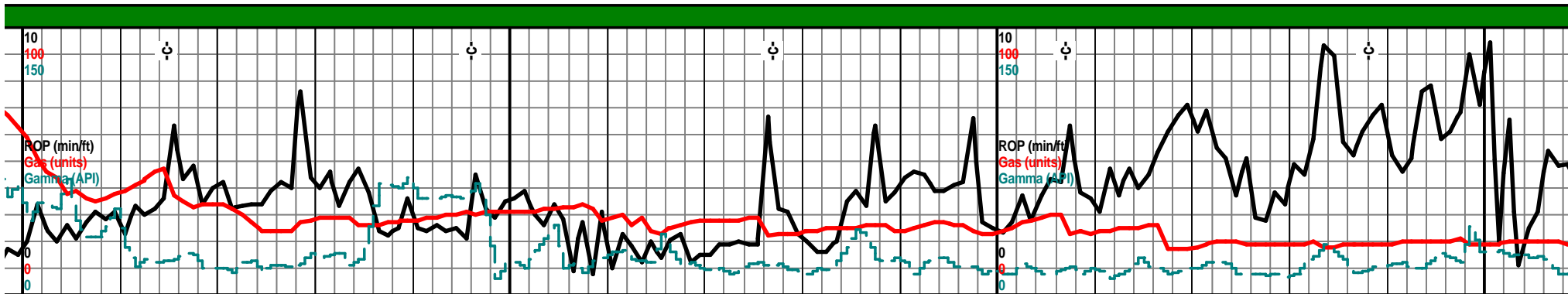
Depth 00 3920 3940 3960 3980 4000 4020

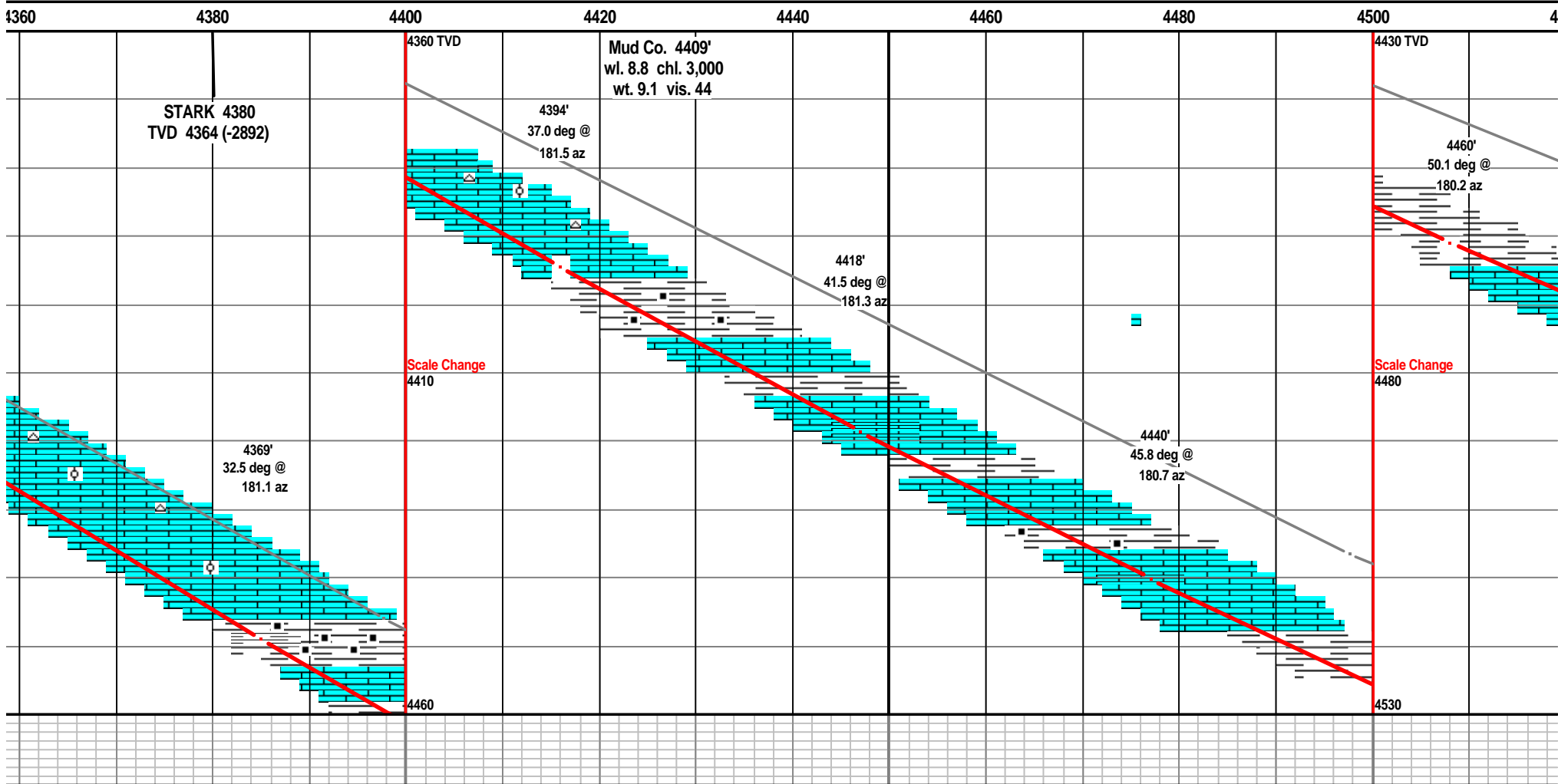
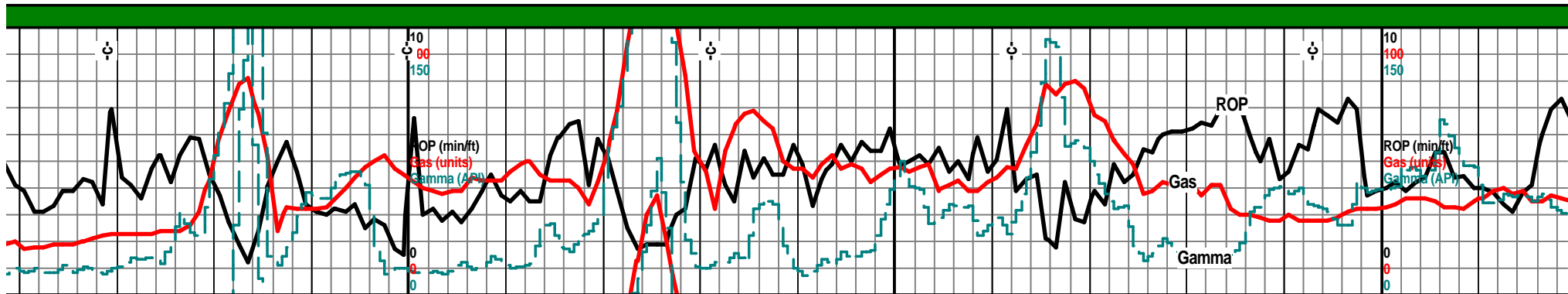


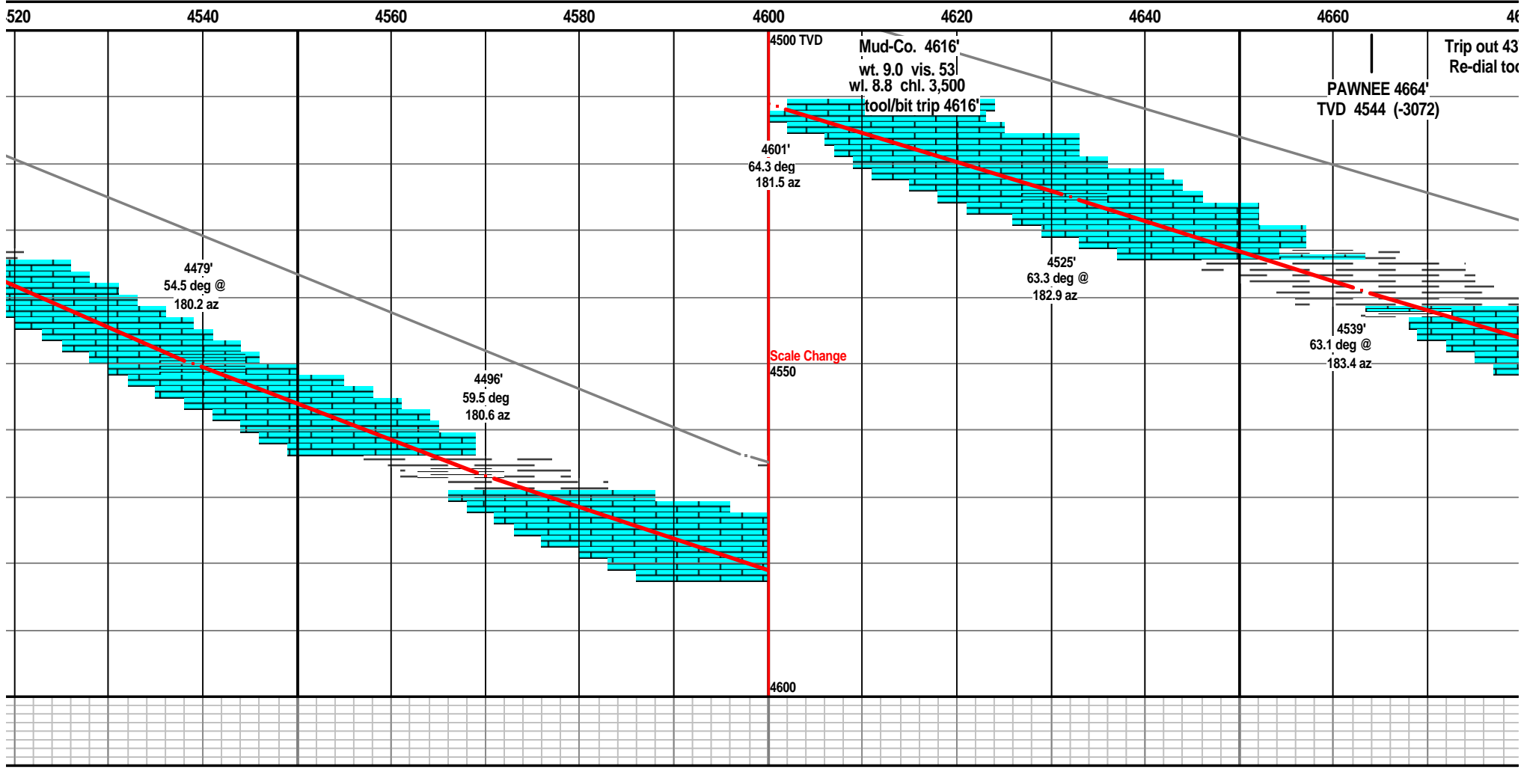
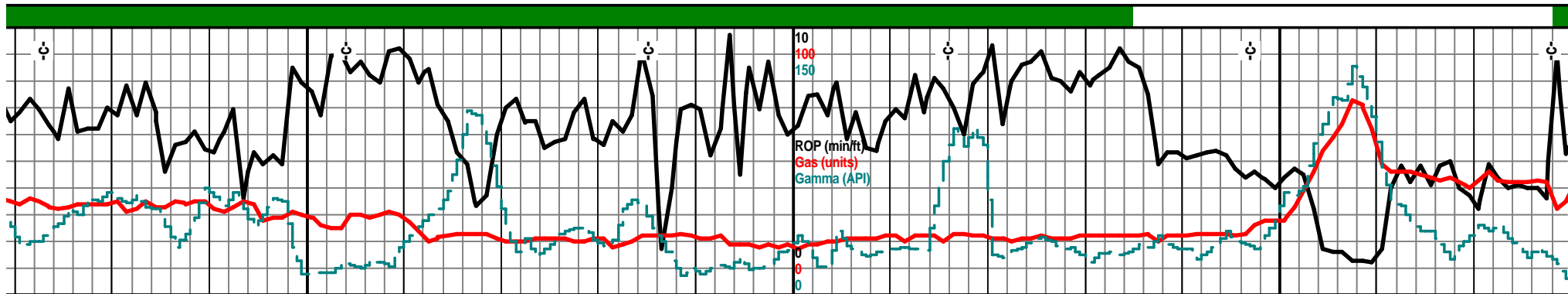
Well Bore Cross Section

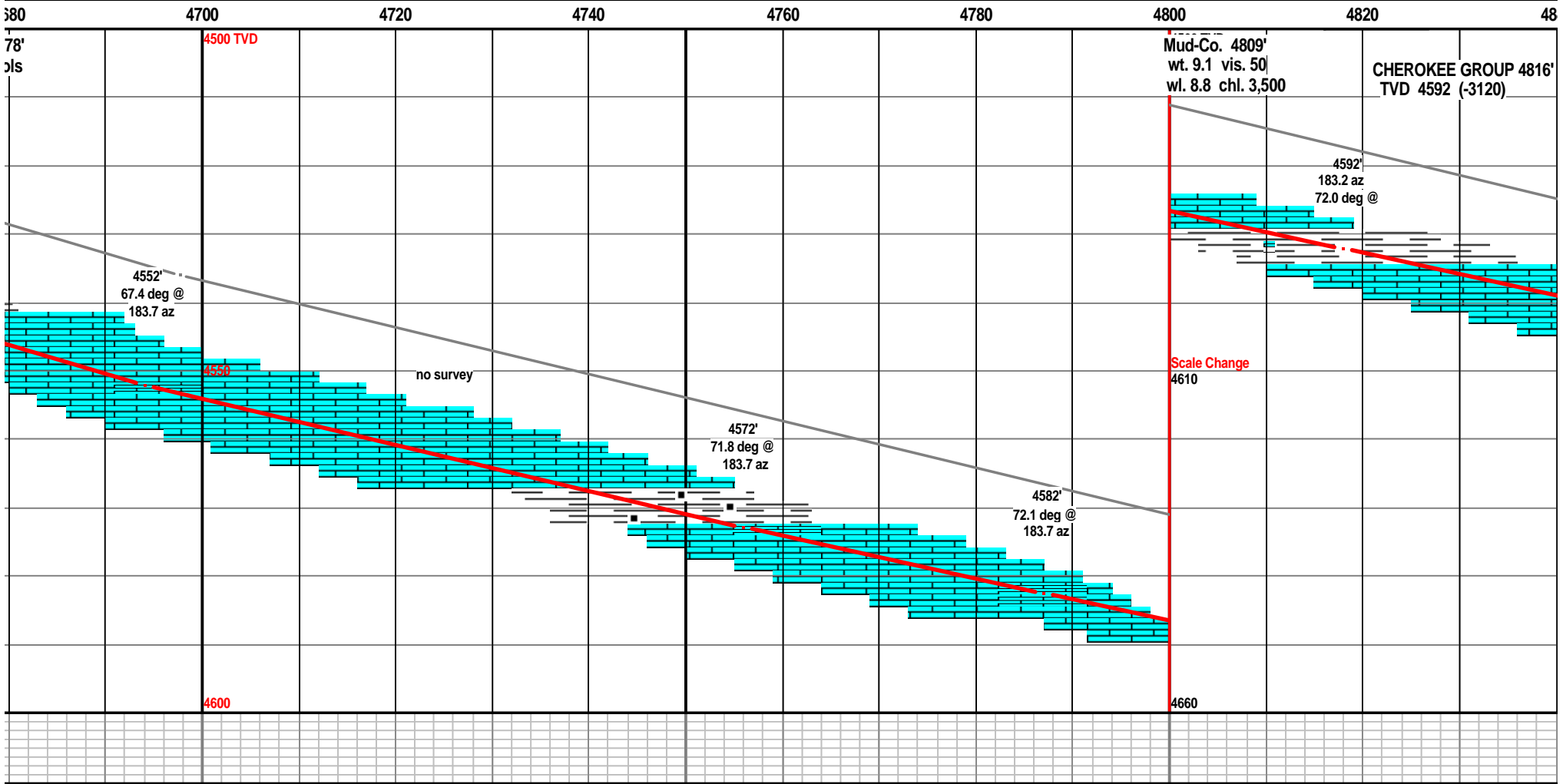
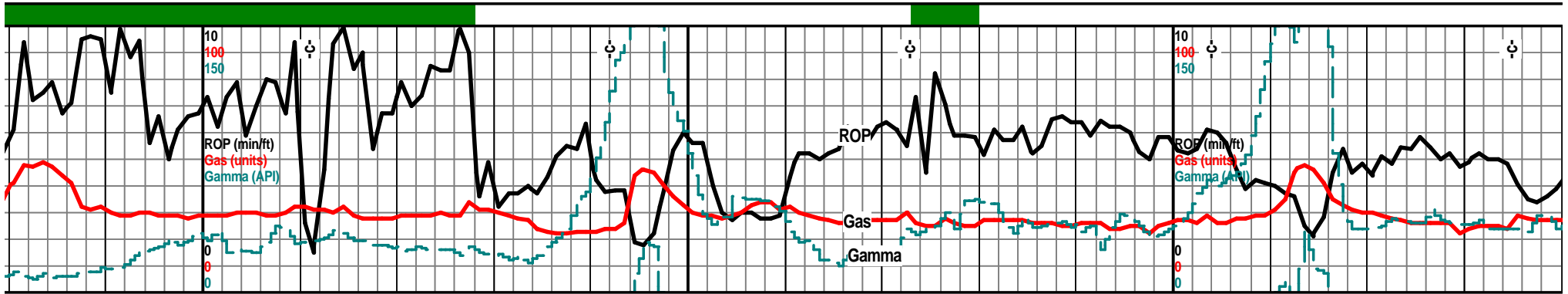
Porosity	24%
	18%
	12%
	6%
Porosity Type	

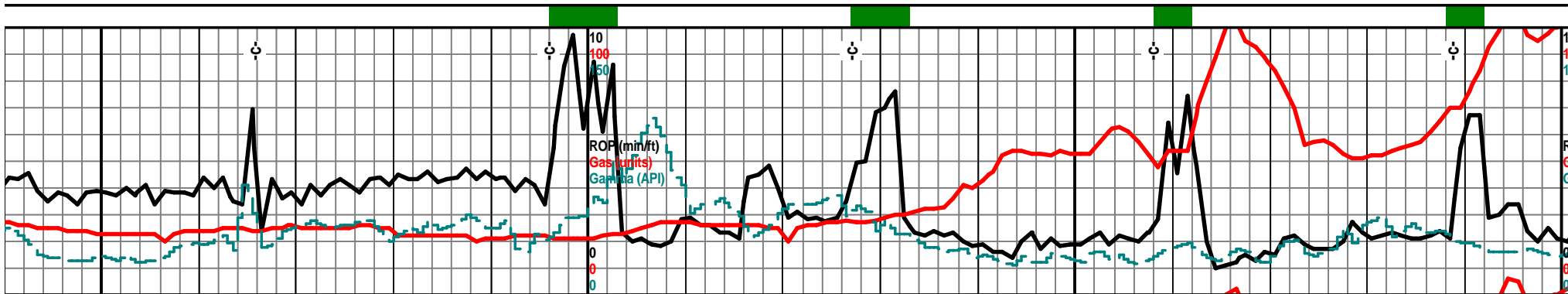




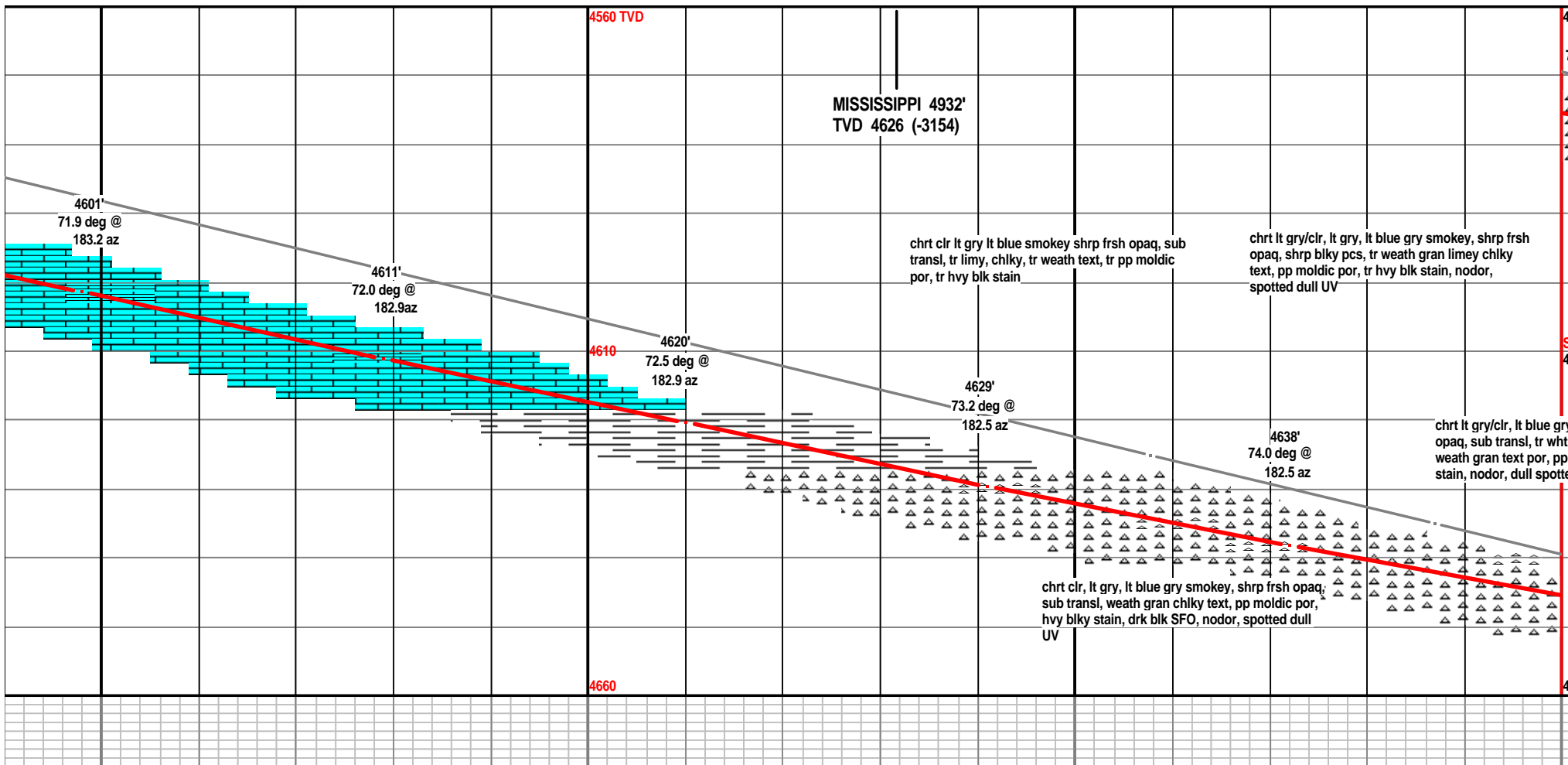


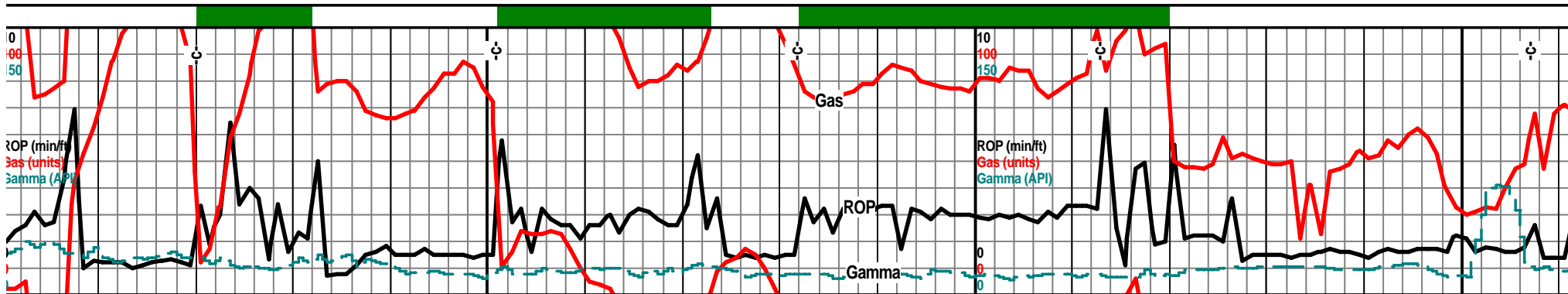






40 4860 4880 4900 4920 4940 4960 4980 500





Depth (ft)	ROP (min/ft)	Gas (units)	Gamma (API)	Notes
4630 TVD				7" Casing Depth 5120'
4646'	76.7 deg @		-182.2 az	
4652'	79.1 deg @		182.2 az	
4658'	82.9 deg @		182.0 az	chrt off wht lt gry lt gry smokey shrp frsh opa, sub transl, blk ang pcs, with chrt tan wht off wht with weath tr spongey trip text pp moldic por, tan brn stained, odor? scattered UV
4657'	81.9 deg @		182.0 az	
4662'	87.5 deg @		182.0 az	
4663'	88.5 deg @		181.3 az	
4680				
4730				

chrtwth lt gry tr lt smokey shrp frsh blk ang opa with weath gran sli trip text, fair pp moldic por, scatt tan brn stain, drk sfo scattered dull UV, nodor tr gas bubs

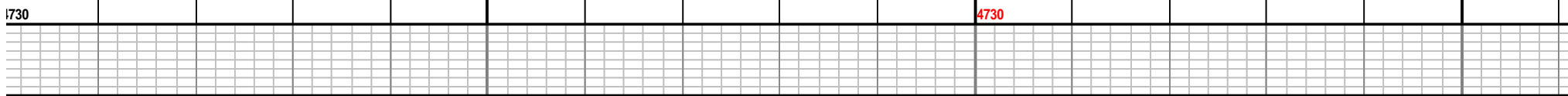
Scale Change
4680
y lt smokey shrp frsh chrt, soft gran sub chlky, moldic por, tr tan brn ad UV

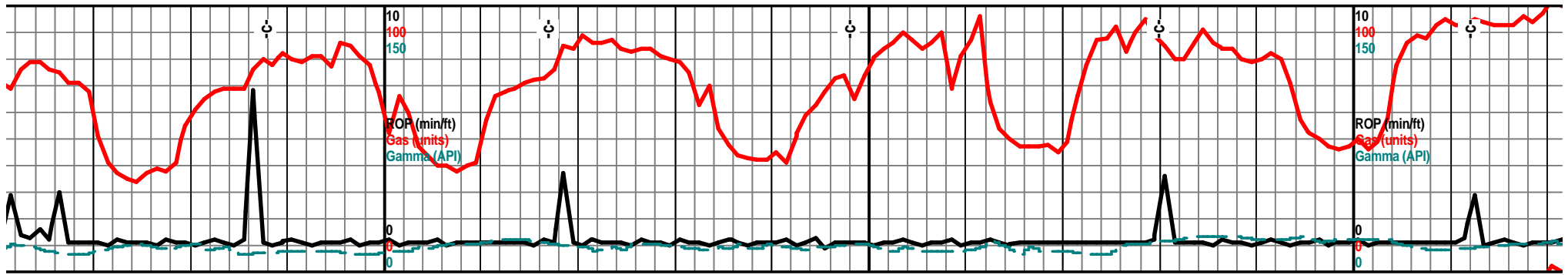
chrt off wht wht lt gry shrp frsh opa, with weath gran sli trip text, pp moldic vug por, sli odor?, tan brn stain, tr gas bubs, dull UV

chrt off wht lt gry, tr lt gry smokey shrp frsh opa, sub transl with weath gran sub chlky sli trip text, pp moldic por, tr vug por, tan brn stain tr gas bubs, dull UV

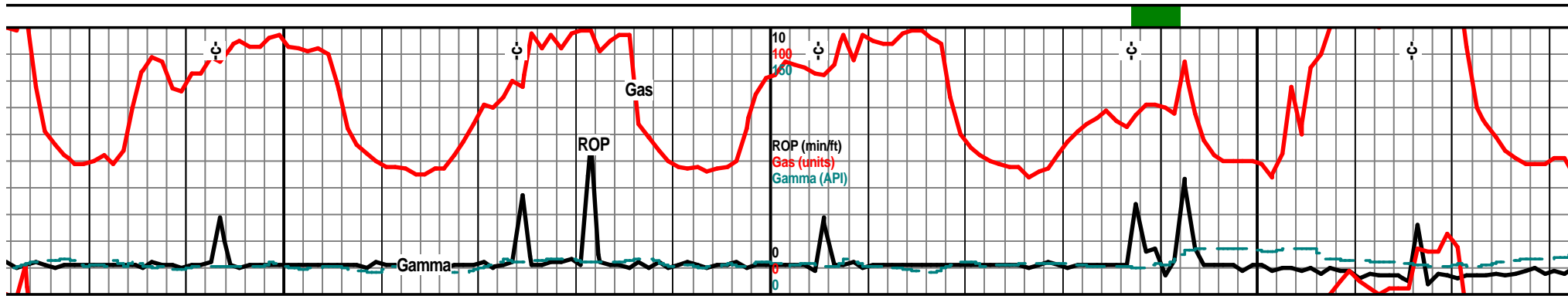
chrt off wht lt gry lt gry smokey shrp frsh opa, transl, blk ang shards, chrt wht off wht with weath sli chlky trip soft text, pp moldic por, tan brn stain, nodor, dull scattered UV

chrt off wht lt gry tr lt gry smokey, shrp frsh opa, semi transl, tan brn weath trip text edges, pp moldic por, tan brn stain, scattered dull edge UV, nodor





0	5180	5200	5220	5240	5260	5280	5300	5320
	5180' 7am Saturday, Nov. 3, 2012	4630 TVD					4630 TVD	
	frsh opa semi transl, shrp 1 weath trip text edges, pp n, dull edge UV, nodor	chrt off wht v lt gry tr lt smokey color, shrp frsh opa semi transl, with tan brn weath sli trip text edges, tr tancrm spongey text, tan brn stain, pp moldic por, sli odor, dull scattered edge UV		chrt off wht lt gry shrp frsh opa semi transl, with weath gran spongey trip text edges, tan brn stain, tr drk blk stain, sli odor, scattered dull edge UV, tr gas bubs		chrt off wht lt gry shrp frsh opa, semi opa, with weath gran tr spongey trip text, pp moldic por, tan brn stain, tr blk stain sli odor, tr gas bubs		chrt off wht lt gry shrp f blky ang shards, with w text, tan brn stain, sli oc UV
	4663' 90.1 deg @ 181.3 az	4663' 90.0 deg @ 181.3		4663' 90.4 deg @ 180.9 az		4663' 90.5 deg @ 181.3 az	4663' 89.9 deg @ 180.9 az	
		4680					4680	
	chrt off wht lt gry tr lt gry smokey color, shrp frsh opa semi transl, with weath gran trip text edges, pp moldic por, tan brn stain, nodor, tr drk SFO, dull edge UV		chrt lt gry off wht semi transl, shrp frsh opa blky ang shards, with weath gran sli trip tr spongey text edges, pp moldic por, tan brn tr hvy blk stain sli odor, scattered dull UV edges		chrt lt gry off wht shrp frsh opa, semi transl, shrp frsh opa, with weath gran sli spongey trip edge text, pp moldic por, tan brn stain, tr hvy blk SFO, sli odor, dull scat UV		chrt off wht lt gry shrp frsh opa trans, shrp blky ang shards, with weath gran sli spongy/trip text, pp moldic por, tan brn stain, gas bubs, sli odor,	
		4730					4730	



5340 5360 5380 5400 5420 5440 5460 5480

Mud-Co. 5399'
wt. 8.3 vis. 26
wl. N/C chl. 1,200

4630 TVD

rsh opa semi transl, shrp
reath gran tr spongy trip
lor, drk stain, drk sfo dull

chrt off wht wht lt gry tr smokey shrp frsh opa, sub transl, with weath sli trip text edges, tr spongy text, pp moldic por, tan brn stain, tr hvy blk stain, tr gas bubs, odor? dull UV, filmy SFO, floaters

chrt lt gry off wht lt smokey shrp frsh opa semi transl, blk ang shards, with weath gran sli spongy trip text, pp moldic por, tan brn stain, floating oil droplets, tr gas bubs, dull UV

chrt lt gry lt smokey shrp frsh opa transl with weath sli trip edges, tr spongy text, pp moldic por, tan brn some blk hvy stain odor, dull edge UV

chrt off wht lt gry lt smok trans, with weath gran sli por, tan brn stain, tr blk h bubs, floaters



4662'
89.9 deg @
181.3 az

4662'
90.8 deg @
181.5 az

4662'
90.8 deg @
181.3 az

4680

4661'
91.4 deg @
181.1 az

4661'
90.8 deg @
181.6 az

4661'
91.3 deg @
180

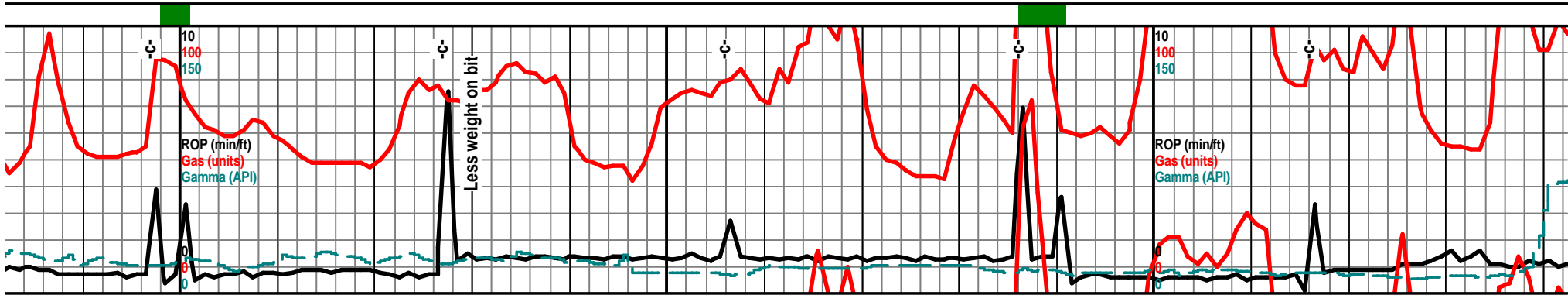
chrt off wht lt gry tr lt smokey shrp frsh opa sub transl, shrp blk shards, with weath sli trip text, spongy text sides/edges, pp moldic por, tan brn stain, blk hvy stain, tr gas bubs, dull UV

chrt off wht lt gry shrp frsh opa, blk ang pc, sub transl, with weath gran sli spongy trip text edges, pp moldic por, tan brn stain, dull edge UV

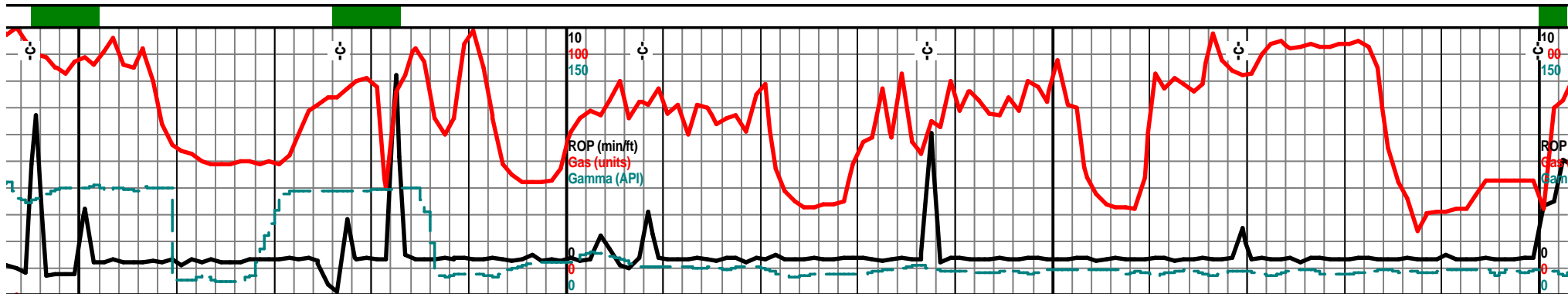
chrt off wht lt gry shrp frsh, tr lt gry smokey frsh with weath gran spongy trip text edges, pp moldic por, tan brn stain, floaters, gas bubs, dull edge UV. odor? filmy SFO, floating oil droplets

chrt off wht lt gry lt gry smokey shrp frsh opa, blk ang shards with weath trip text edges, tr spongy text, pp moldic por tan brn stain, dull spotted edge UV sli odor, tr floating oil droplets.

4730



5500	5520	5540	5560	5580	5600	5640
4630 TVD					4620 TVD	
chrt off wht wth lt gry tr blk hvy stain, spotted dull UV	chrt lt gry lt smokey shrp frsh opa, transl with weath trip, sli spongy trip edges, pp moldic por, tan brn stain, filmy SFO, sli odor, tr blk hvy stain,	chrt lt gry lt gry/smokey shrp frsh opa sub trans, with weath tan brn stained trip text edges, pp moldic vug por, tan brn stain, tr hvy blk stain, gas bubs, filmy SFO, dull scattered UV, sli odor	chrt lt gry lt gry/smokey shrp frsh opa sub trans, with weath tan brn stained trip text edges, pp moldic vug por, tan brn stain, tr hvy blk stain, gas bubs, filmy SFO, dull scattered UV, sli odor	chrt lt gry lt gry/smokey shrp frsh opa sub trans, with weath tan brn stained trip text edges, pp moldic vug por, tan brn stain, tr hvy blk stain, gas bubs, filmy SFO, dull scattered UV, sli odor	chrt lt gry lt gry/smokey shrp frsh opaq semi transl, blk ang shrp shards, with weath trip text edges, pp moldic por tan brn stain, filmy SFO, floaters, tr gas sli odor, scattered dull edge UV	chrt off wht wth lt gry sh blk ang shards, with w moldic por, tan brn stair
4660'	4660'	4659'	4659'	4659'	4670'	4657'
91.1 deg @ 180.7 az	91.1 deg @ 180.7 az	91.1 deg @ 180.2 az	91.4 deg @ 180.2 az	91.4 deg @ 180.2 az	91.1 deg @ 179.7 az	91.4 deg @ 179.5 az
4680					Scale Change	
chrt off wht lt gry tr lt smokey, shrp frsh tr foss opa, tansl, shrp blk shards, with weath gran tr spongy trip text, pp moldic por, tan brn stained edges, tr gas bubs, dull UV, sli odor	chrt lt gry lt gry/smokey shrp frsh opa, sub transl, shrp blk shrds, with tan brn stained trip sli spongy text edges, pp moldic por, filmy SFO, tr gas bubs, "floating filmy oil droplets. sli odor, dull UV	chrt lt gry lt tan gry smokey shrp frsh opa with weath trip edge text pp moldic por tan brn stain, sli odor, filmy SFO, floaters	chrt lt gry lt off wht shrp frsh semi opa, blk ang shards, with sli weath trip text edges, pp moldic por, tan brn stain, tr hvy blk stain, odor?, filmy SFO, floaters, dull scattered edge UV			
4730					4720	



5660 5680 5700 5720 5740 5760 5780 5800

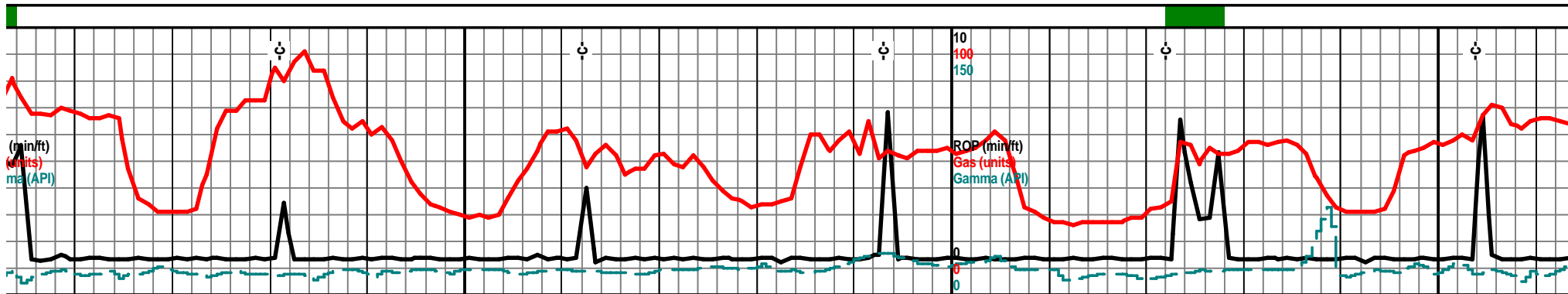
irp frsh opa, sub transl, eath trip text edges, pp 1, filmy SFO, dull UV	chrt lt gry off wht some wht, shrp frsh opa sub transl, with tan brn stained weath sli trip/spongy edges, pp moldic por, tan brn stain, filmy SFO, tr gas bubs, dull UV	4620 TVD	chrt off wht wht shrp frsh opa vit, shrp blk ang pcs with weath gran tr spongy trip text, tan brn stain, tr blk stain, VSSFO, filmy SFO, tr gas bubs dull UV	chrt wht lt gry shrp frsh opa semi transp, with weath trip text edges, tan brn stain, pp moldic por, hvy blk stain, filmy SFO, scatt dull UV, gas bubs, floating drops	chrt wht off wht lt gry shrp i with weath gran trip text ed tan brn tr blk hvy stain, drk bubs, scatt dull edge UV
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4657' 90.5 deg @ 178.5 az	4657' 89.5 deg @ 177.9 az	4670	4657' 89.4 deg @ 177.4 az	4658' 89.6 deg @ 177.6 az	4658' 89.7 deg @ 177.4 az	4670
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chrt off wht wht lt gry shrp frsh opa blk ang opa pcs, with weath tan brn stained sli trip text edges. pp moldic por, filmy SFO, sli odor, tr drk blk hvy stain, dull scattered UV	chrt off wht, mstly wht, frsh shrp tr weath trip spongy texty, tan brn stain, weath gran text, pp moldic por, vug por, tan brn stain, tr drk blk stain, odor, filmy SFO, floaters, dull UV	4720	chrt off wht wht shrp frsh opa tr foss, sub transl, with weath gran sli spongy trip text edges, pp moldic por, tan brn stain, filmy SFO, sli odor, dull UV	chrt wht off wht lt gry, tr lt gry smokey shrp frsh opa transp, transl, with weath trip text edges, tan brn stain, pp moldic por, vug por, blk hvy stain, tr gas scatt dull UV
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4720 4720



5820 5840 5860 5880 5900 5920 5940 5960

TVD 4620 TVD

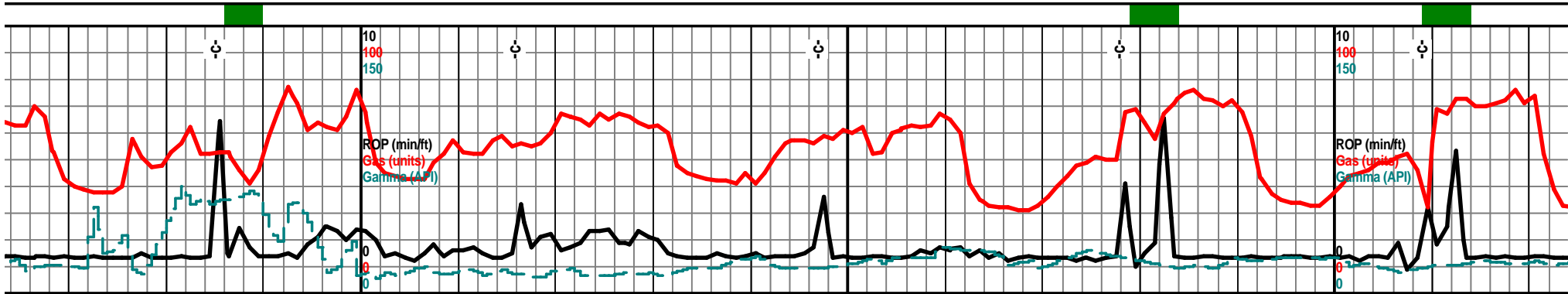
frsh opaq sub transp, ges, pp moldic por, SFO, filmy SFO, gas	chrt wht off wht lt gry tr smokey gry color, shrp frsh opaq with tan brn stained weath trip edges, pp moldic vug por, tan brn tr blk stain, drk brn SFO, oil droplets, tr gas bubs, sli odor, dull scatt edge UV	chrt wht off wht lt gry in prt, shrp frsh opaq, blkly ang shrds with weath tan brn stained trip text edges. pp moldic por, tr vug por, tan brn stain, drk brn SFO, floating drops, tr gas bubs, dull scatt edge UV	chrt wht off wht lt gry shrp frsh opaq, sub transl, shrp blkly ang shrds, with weath gran tan brn stained trip text, pp moldic por, vug por, tan brn stain tr hvy blk stain, tr gas bubs, incr frsh dec show	chrt lt gry off wht tr wht shi ang pcs, sub transp, with sl tan brn stain, pp sli weath n stain tr hvy brn/blk stain, nc
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4658' 89.2 deg @ 177.1 az	4658' 89.5 deg @ 177.2 az	4658' 89.8 deg @ 177.2 az	4670' 4658' 90.0 deg @ 177.2 az	4659' 89.1 deg @ 176.4 az
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chrt off wht wht, lt gry, lt smokey gry, shrp frsh opaq, blkly sharp ang pcs, with weath tan brn stained trip text edges. pp moldic vug por, tr hvy blk stain, SSFO, gas bubs, sli odor, scat dull edge UV	chrt wht off wht, some lt gry smokey gry, shrp frsh opaq, sub transp, with tan brn stained weath trip text edges, pp moldic por, vug por, tan brn stain, hvy blk stain, filmy SFO, tr gas bubs, dec vis shows!	chrt wht off wht lt gry shrp frsh opaq sub transl, blkly ang shrds, foss in prt, with weath tan brn stained trip edge text, pp moldic vug por, tan brn stain, drk tan/brn SFO, filmy SFO, floaters, tr gas bubs, dull corner/edge UV	chrt wht off wht, yellow tint, shrp frsh opaq with weath gran sli trip edges, tan brn stain pp moldic por, tan brn stain tr hvy blk stain, odor?, dull scatt UV
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4720



5980

6000

6020

6040

6060

6080

6100

6120

4620 TVD

6075' 7am
Sunday, November 4, 2012

Mud-Co. 6109'
wt. 8.4 vis. 27
wl. N/C chl. 1,000

rp frsh opa, blkly shrp
li weath edges, with
noldic por, tan brn
odor

chrt off wht lt gry tr tan yellow tint, shrp frsh blkly
ang opa shards, semi transp, transl, weath
edges/sides, tan lt brn stained edges, pp moldic
por, tr hvy blk stain, nodor, tr gas bubs

chrt off wht lt gry, tr lt gry smokey color, mstly
frsh with weath edge/side text, pp moldic por, lt
tan drk yellow stain, tr hvy blk stain, tr filmy SFO
nodor

chrt off wht lt gry lt smokey gry, shrp frsh opa, q,
semi transl, with tr weath gran edge text, pp
moldic por, yellow tan brn stain, filmy SFO, tr hvy
grsy stain, dull UV

chrt lt gry off wht smokey g
transl, semi transp, with we
moldic por, tan brn stain, y
stain, tr gas bubs, dull UV, i



4659'
89.1 deg @
176.5 az

4670
4660'
89.5 deg @
176.5 az

4660'
90.6 deg @
177.2 az

4659'
91.2 deg @
177.6 az

4659'
90.3 deg @
177.2 az

4670

8

chrt lt gry off wht, yellow/tan tint, shrp frsh opa q
semi transl, sub transp, blkly shap ang pcs, sli
weath edges, tan brn stain, pp moldic por, tr hvy
blk stain nodor, dull scatt edge UV

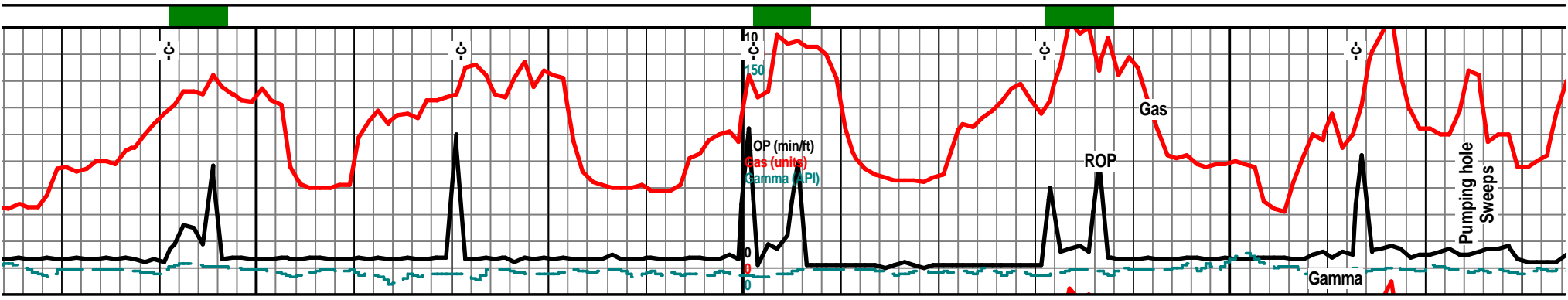
chrt off wht, wht lt gry shrp frsh opa, semi
transp, transl, shrp ang shards, with weath
edges/sides, pp por, tan brn stain, tr hvy blk stain,
tr filmy SFO, nodor

chrt lt gry off wht, wht, shrp frsh opa, semi
transl, sharp ang pcs, with sli weath text
edges/sides, pp moldic por, tan brn stain, yellow
tint stain, tr hvy grsy stain nodor, dull UV

chrt off wht lt gry lt gry smokey, shrp frsh opa, q,
semi transl, shrp hrd blkly pcs, pp moldic por, tan
yellow brn stain, grsy hvy blk stain dull UV, nodor

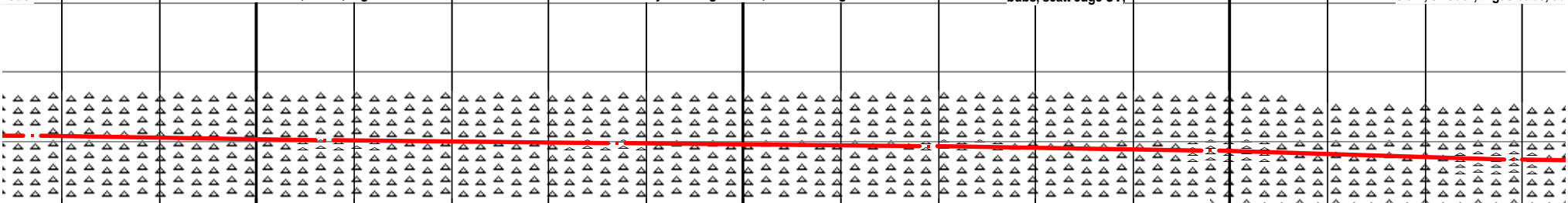
4720

4720



6140 6160 6180 6200 6220 6240 6260 6280

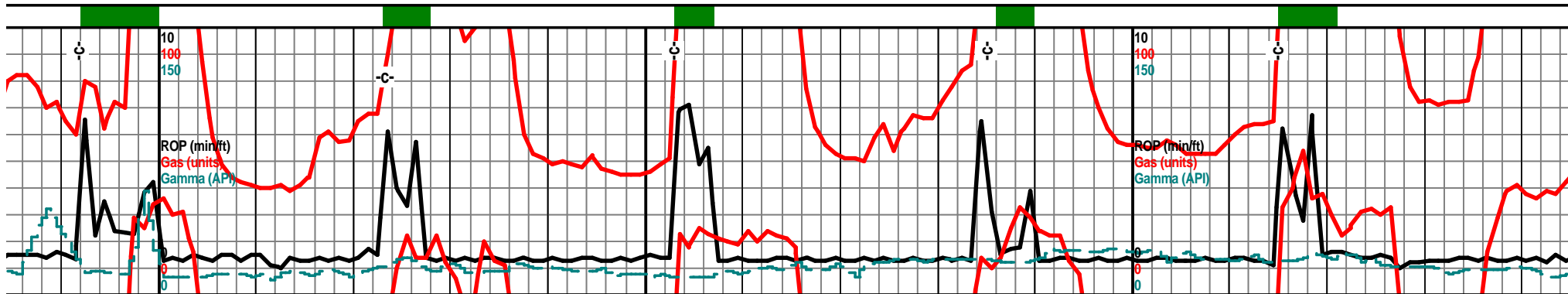
				4620 TVD					
ry, shrp frsh opa, ath semi trip text, pp allow stain tr hvy grsy nodor	chrt lt gry off wht tr smokey color, shrp frsh opa, semi transl, hrd biky ang shards, with semi weath sli trip text edges/sides, pp moldic por, yellow tan brn stain, nodor, tr gas	chrt tr wht, off wht lt gry, tr lt gry smokey, shrp frsh opa, semi transl, with weath tan brn stained sli trip text edges, pp moldic por, tan brn stain, tr blk hvy stain tr gas bubs, scatt dull edge UV	chrt lt gry bec drkr smokey gry, shrp frsh opa, sub transl, with weath gran trip text edges, tan brn drk brn stain, drk filmy SFO, sli odor, tr gas bubs, scatt edge UV,	chrt lt gry, incr drkr gry smok biky with off wht tan mott wea edge/sides, pp moldic, vug pc stain, sli odor, tr gas bubs, du					



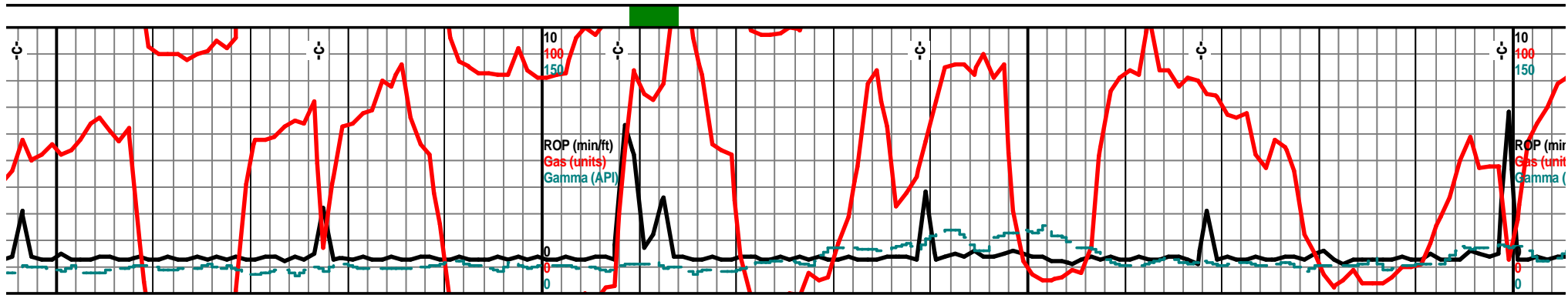
4659'	4659'	4660'	4670'	4660'	4661'	4662'
89.2 deg @ 177.1 az	88.8 deg @ 177.4 az	89.2 deg @ 177.2 az		89.3 deg @ 178.5 az	87.8 deg @ 179.3 az	87.7 deg @ 179.3 az

chrt lt gry off wht wht, shrp frsh opa, semi transl, biky ang shrp shards, with semi weath sli trip text edges/sides, pp moldic por, yellow tan lt brn stain, tr heavy blk grsy stain nodor tr gas bubs	chrt lt gry lt smokey shrp frsh opa, tr foss, shrp biky ang shards, with weath gran trip text edges, pp moldic por, vug por, tan brn stain tr hvy blk stain, floaters, tr gas bubs	chrt off wht gry incr drkr smokey color gry shrp frsh opa, sub transl, with incr weath trip text edges/sides, tan brn stain, pp moldic por, vug por, sli odor, scatt dull edge UV.	chrt lt gry, smokey gry, tan gry mott, frsh shrp biky opa with weath gran trip edge text, tan brn tr hvy blk stain, sli odor, filmy SFO, floaters, pp moldic vug por
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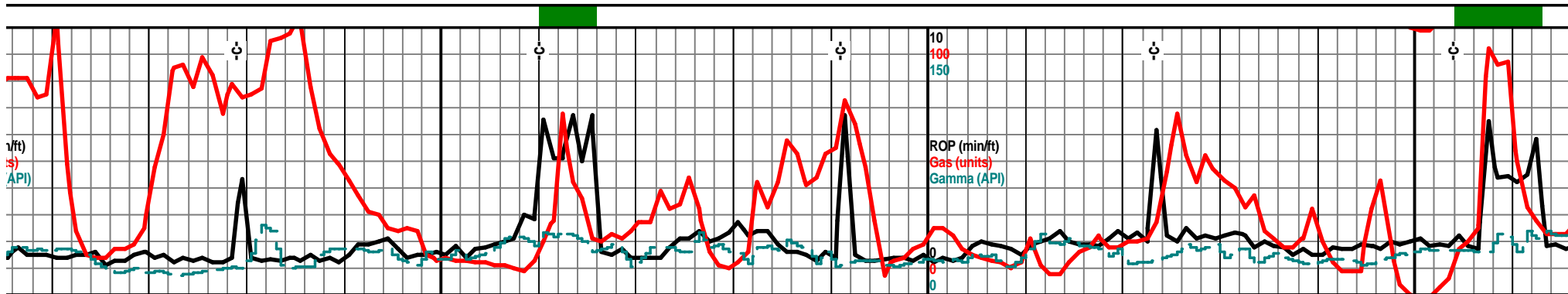
4720



6300	6320	6340	6360	6380	6400	6420	6440
Bit Trip 6292'	4620 TVD		6350' 7 am Monday, Nov. 5, 2012		4620 TVD		Mud-Co wt. 8.4 v wl. N/C cl
ey color, frsh shrp th gran trip r, tan brn tr hvy blk ill edge UV		chrt lt gry off wht, gry smokey shrp frsh opa blky ang shrds, with weath trip tan brn stained edge text, tr spongy text, pp moldic por, vug por, tan brn stain, tr hvy blk stain, gas bubs, dull scatted edge UV sli odor		chrt lt gry off wht, drkr gry smokey in color with tan brn off wht mott weath trip text edges, tr spongy weath edge text, pp moldic por, tan brn tr blk hvy grsy stain, sli odor, gas bubs, floating oil droplets, dull scatt edge UV			chrt off wht opa opa, blkly a weath gran mott spong tan brn stair sli odor, dul
	4670				4670		
	4663' 90.2 deg @ 179.9 az		4662' 91.3 deg @ 180.0 az		4662' 91.2 deg @ 180.0 az	4661' 90.0 deg @ 180.6 az	4661' 89.5 deg @ 179.9 az
			chrt lt gry off wht, smokey gry shrp frsh opa trans with weath tan brn mott trip text, tan brn wht mott spongy weath trip text pp moldic vug por, tan brn stain, filmy SFO, floating drops, sli odor, gas bubs, dull scatt edge UV			chrt off wht lt gry, lt gry/smokey color, shrp frsh opa, sub transl, with weath tan brn mott trip text edges, tr tan brn spongy weath chrt, tan brn stain, drk hvy stain/SFO, filmy SFO, gd gas bubs, dull scatt edge UV, odor to noticeable odor	
	4720				4720		

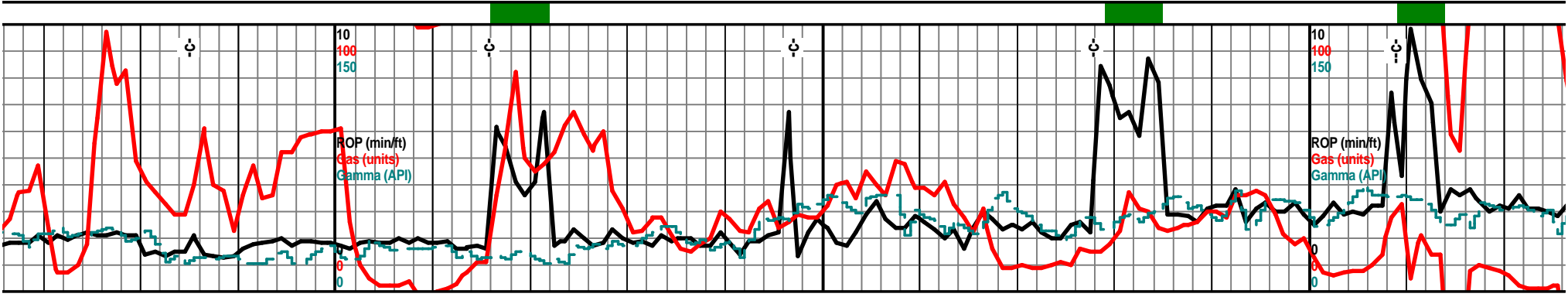


6448'	6460	6480	6500	6520	6540	6560	6580	6600
4648' TVD			4620 TVD					4620 TVD
10 100 150			10 100 150					10 100 150
ROP (min/ft)			ROP (min/ft)					ROP (min/ft)
Gas (units)			Gas (units)					Gas (units)
Gamma (API)			Gamma (API)					Gamma (API)
It gry, lt gry smokey color, shrp frsh ng shrds, sub transp/transl, with tan brn stained trip text por, tan brn / text trip text, pp moldic por, vug por, 1, VSSFO, hvy brn blk stain, gas bubs l egde UV			chrt wht off wht lt gry, gry smokey color, shrp frsh opa, transl, with tan brn stained edges, with tan brn stained mottled trip text edges, pp moldic por, tan brn stain, filmy SFO, "floaters" gas bubs, dull scatt UV edges			chrt wht off wht lt gry, lt gry smokey, shrp frsh opa, semi transl, with sli weath tan brn stained edge, chrt aa with tan brn wht mottled trip and spongy text edges, pp moldic por, tan brn stain, tr hvy tan blk stain, sli odor, gas bubs filmy SFO dull scatt UV, some glau specks		chrt off wht lt gry lt gr/smokey cc opa shrp blk shards with tan b semi weath edge, chrt aa with tan sli spongy text, pp moldic vug pc blk stain gas bubs, "floaters", filr scattered edge UV
▲▲▲▲▲	▲▲▲▲▲	▲▲▲▲▲	▲▲▲▲▲	▲▲▲▲▲	▲▲▲▲▲	▲▲▲▲▲	▲▲▲▲▲	▲▲▲▲▲
			4670					4670
	4662' 90.1 deg @ 179.9 az		4661' 90.5 deg @ 179.9 az		4661' 89.7 deg @ 179.3 az		4662' 89.5 deg @ 179.3 az	4662' 89.6 deg @ 179.2 az
chrt off wht lt gry, lt gry smokey color shrp frsh opa sub transl/transp, with tan brn stained edges, also with tan brn stained weath spongy trip text edges/sides, pp moldic por, vug por, tr hvy brn blk stain/SFO, gas bubs. dull edge UV			chrt wht off wht, lt gry smokey color, shrp frsh opa blk ang semi transl shards with tan brn stained sli weath edges, and chrt aa with tan mottled weath trip tr spongy text edges, pp moldic por, vug por, filmy SFO, tr hvy tan brn stain SFO, gas bubs, dull edge UV			chrt wht off wht lt gry, gry smokey color, with tan brn stain along sli weath edges, with chrt aa with tan brn wht mottled sli spongy trip text edge, pp moldic por vug por, tan brn stain, filmy SFO, :floaters, gas bubs, dull UV tr glau specks		
			4720					4720

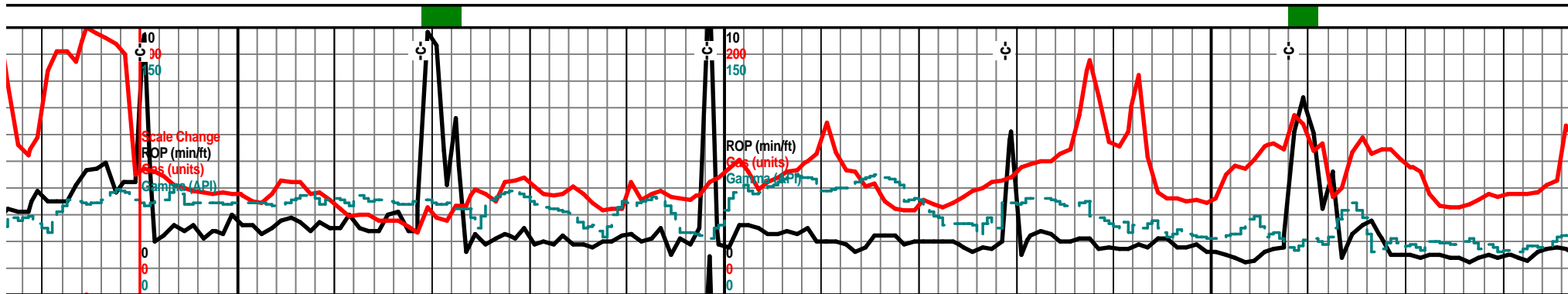


6620 6640 6660 6680 6700 6720 6740 6760

4620 TVD															
<p>olor, shrp frsh rn stain alone 1 brn stained trip or, tan brn tr hvy ny SFO, dull</p>				<p>chrt off wht, vry lt gry to mostly clr, opa, transl, glassy, shrp frsh opa shards, with tr sli weath edge, tr tan brn stain, nodor, tr dull UV, lst wht f xln filky sub chlky, chrt, chrt inclu</p>				<p>chrt off wht vry lt gry, clr, vit, opa, transl, "glassy", shrp frsh, ang shrp shards, with tr tan lt brn stain on sli weath edges, spls mstly frsh, nodor, tr "floaters" tr lst wht f xln filky, sub chlky chrt, chrt inclu,</p>				<p>chrt off wht vry lt gry clr, transl, opa chrp frsl shards, 95% frsh chrt, with trace lt tan stain al sli weath edge, nodor, NSFO?gas</p>			
4662' 90.0 deg @ 179.3 az			4662' 90.0 deg @ 179.3 az			4662' 88.0 deg @ 178.8 az			4664' 87.6 deg @ 178.6 az			4665' 88.0 deg @ 178.6 az			
<p>chrt wht off wht lt gry shrp opa transl, chrt in spls bec frsher, blk ang shrp shards, with tan brn weath tr spongy trip text, tan brn stain, tan brn tr blk stain tr gas bubs.</p>				<p>chrt off wht, vry lt gry mstly clr, vit, opa, "glassy" shrp frsh transl shrp shards, some with tr sli weath edge text, lt tan stain, tr vis por, tr dull edge UV, nodor, NSFO/droplets</p>				<p>chrt off wht, vry lt gry, clr, mstly frsh, shrp blk and sharp shards, clr transl, tr lt tan lt brn stain on sli weath edge, mstly barren, nodor, odd piece of drk yellow/orange frsh shrp chrt, spl catcher notes drilling fluid color change, darker more orange in color from the usual cream/tan color</p>				<p>chrt off v blk ang incr tan t edges/sik stain</p>			
4720															

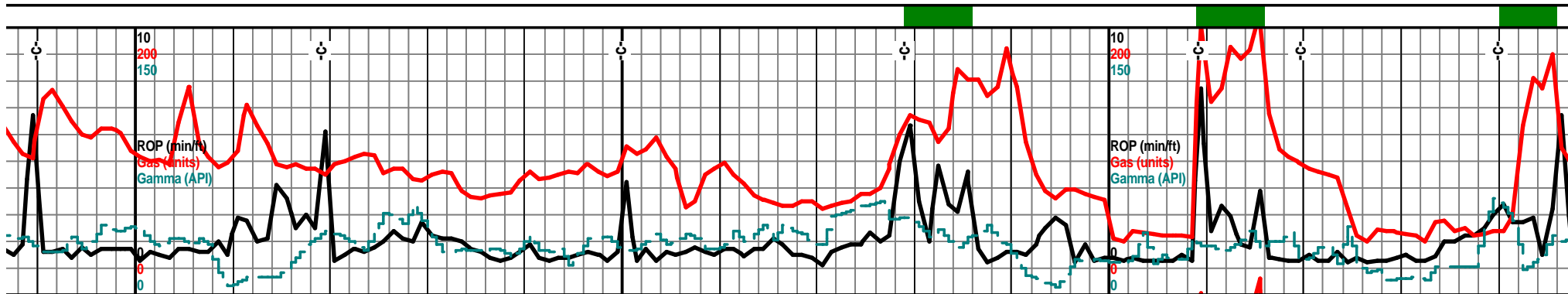


	6780	6800	6820	6840	6860	6880	6900	6920
		4620 TVD					4620 TVD	
Log	chrt wht off wht lt gry, clr, transl, opa, shrp frsh blk ang shards, with tan brn stained sli weath edge, chrt aa with weath trip sli spongy edges, tan brn stain, pp moldic por, oil droplets, tr gas bubs, scatt dull edge UV nodor, tr lst wht f xin flky sub chlky, chrty, chrt inclu, tr glau		chrt off wht lt gry, vry lt smokey gry, shrp frsh opa shards, transp, "glassy", with tr tan brn stained weath sli trip text edge, tr weath sli spongy text trip text edges, tan brn stain, tr hvly stain, tr filmy SFO, nodor, scatt dull edge UV, poor vis show			chrt off wht lt gry clr shrp frsh tansp, opa ang shrp shards, tr weath sli trip text, edge stain, blk stain, drk brn blk stain, pp moldic por, lst wht, tr blue green f xin flky chlky much glau chrty, chrt inclu tan brn stain		
	4666'	4667'	4667'	4667'	4668'	4668'	4668'	4668'
	88.2 deg @	88.7 deg @	89.0 deg @	89.0 deg @	89.0 deg @	89.9 deg @	89.9 deg @	89.5 deg @
	178.6 az	178.6 az	178.5 az	178.5 az	178.3 az	178.1 az	178.1 az	178.1 az
	chrt lt gry clr, transl, shrp frsh opa, shrp shards, with incr weath sli trip text with brn stain with weath sli trip text des, incr scatt dull UV, nodor, tr hvly blk	chrt off wht wht lt gry shrp frsh opa, transl, with sli weath lt tan stained edge, chrt aa with weath sli spongy trip text edges, tan brn stain, tr hvly brn blk stain/grsy SFO, tr gas bubs, nodor, lst wht f xin flky sub chlky tr glau, with chrty inclu, wht frsh chrt with flky sub xin lst edge, NS here.		chrt off wht mostly lt gry clear, transp, shrp blk ang opa shards, with tr tan lt brn stained sli weath edges, chrt in spl 90% frsh, tr weath sli spongy text w/tan brn stain pp moldic por, odd lst pcs, wht f xin flky sub chlky glau, wht/blue f xin flky gran glau, chrty, with chrt inclu		chrt off wht lt gry clr shrp frsh blk ang shrds, tr weath sli trip l blk hvly grsy stain, brn blk lst wht off wht green f xin fl content, chrty, chrt inclu.		
		4720					4720	

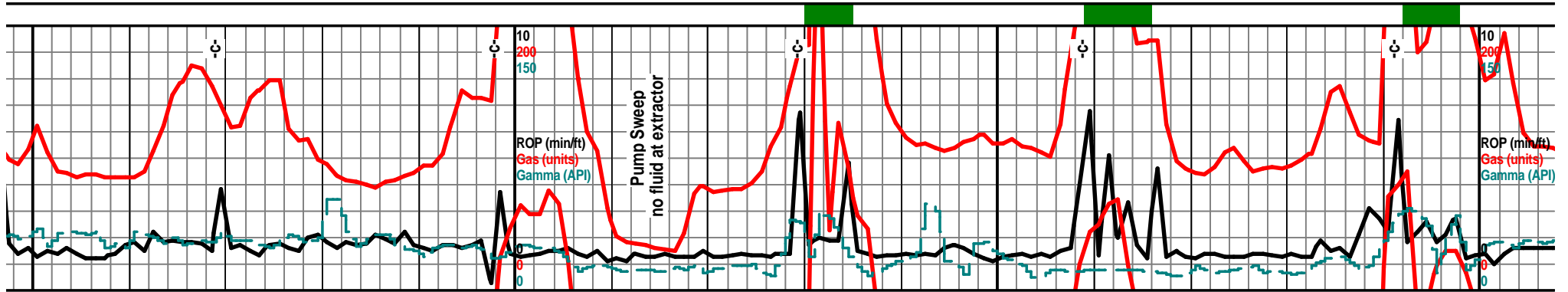


6940 6960 6980 7000 7020 7040 7060 7080

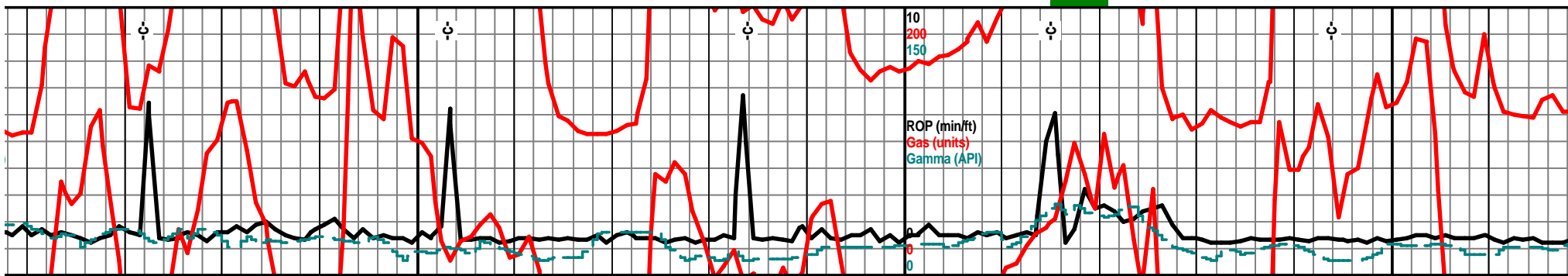
<p>Bit trip 6940' Tuesday Nov. 6, 2012</p>	<p>sample pulverizer added at trip</p>		<p>4620 TVD</p>				
<p>chrt gry off wht mott, lt gry shrp frsh opaq, speckled, transl, blk ang shrp shards, with tr weath edges, pp moldic por, tr stain, tr gas bubs, lst wht wht green mott, f xln gran flky sub chlky, chrty, chrt inclu, much glau</p>			<p>chrt off wht lt gry, shrp frsh opaq, sub transl, tr foss, wht gry specked, with tr rare edge stain, tr hvy brn blk stain, lst wht off wht, wht tan green mott, f xln flky sub chlky, chrty in prt, chrt inclu, much glau</p>			<p>chrt off wht, clr, lt gry, lt gry smokey, shrp frsh opaq, transl, transp in some, tr weath edge, tr hvy brn blk stain, nodor, scatt dull edge UV, lst wht off wht lt gry green tr dolo, f xln soft, flky sub chlky, tr foss, glau,</p>	
<p>@</p>	<p>4668' 90.0 deg @ 177.6 az</p>	<p>4668' 90.3 deg 177.8 az</p>	<p>4668'</p>	<p>4668' 90.1 deg @ 176.9 az</p>	<p>4668' 90.6 deg @ 176.7 az</p>	<p>4668' 91.0 deg @ 176.5 az</p>	
<p>rsh opaq transl, blk text edges, edge stain, stain, tr pp moldic por, ky sub chlky, hvy glau</p>	<p>chrt off wht lt tan/gry, mott in prt, shrp frsh opaq, blk ang shrds, tr but rare weath edge, tan brn stain tr gas bubs, tr hvy stain, lst wht off wht, wht green mott, f xln gran sub chlky flky soft, much glau</p>			<p>chrt off wht, clr, vry lt gry shrp frsh opaq, transl, sub transp, blk ang shrp shards, incr chrt dec lst in spl, tr hvy brn blk stain, dull edge UV, lst wht off wht, f xln gran flky sub chlky, dolo in prt, chrty, chrt inclu, glau in most</p>	<p>chrt wht off wht lt gry shrp frsh opaq transl, clr/transp, blk ang shards, some foss, witi tr weath edge with tan lt brn stain, spls ms! chrt with lst wht crm f xln flky sub chlky ch chrty inclu less glau</p>		
<p>4720</p>							



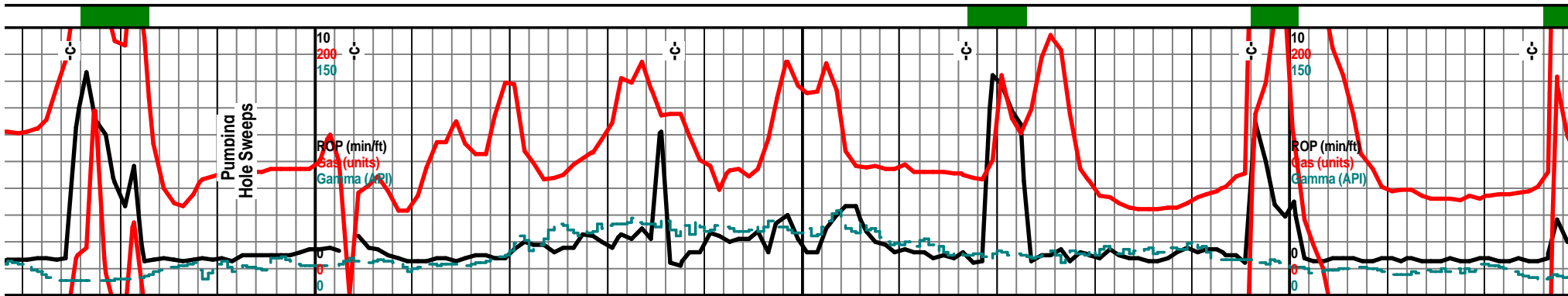
7100	7120	7140	7160	7180	7200	7220	7240	
4620 TVD			7154' 7 am Nov. 6, 2012			4620 TVD		
Samples very fine								
chrt wht off with lt gry shrp frsh opa trans, mstly clr transp, blkly ang shrds, foss foss, with rare tr weath edge with tan lt brn stain spls mstly frsh chrt with some lst wht crm f xln sub chlyk chrt, chrt inclu less glau		chrt wht off wht lt gry, shrp frsh opa, transl, mstly transp/clr, "glassy", shrp blkly ang shrds, with rare scatt sli weath text, rare tan brn edge stain, nodor, tr scatt edge UV, tr lst as before, spls mstly frsh chrt, very fnly ground up frsh chrt!		chrt off wht lt gry shrp frsh opa, transl, clr and transp, blkly ang shrp shrds, some foss, tr weath edge text w/tan brn stain, nodor, tr tan brn stained chrt scatt dull edge UV, some lst wht off wht f xln gran sub blkly, chrt, chrt inclu		chrt wht off wht l transp, shrp blkly text edges, incr v stain, nodor, sli s glau		
4667'	4666'	4665'	4664'	4663'	4663'	4663'	4663'	
91.3 deg @ 176.5 az	92.0 deg @ 176.4 az	92.4 deg @ 176.0 az	92.2 deg @ 176.5 az	91.2 deg @ 177.2 az	91.2 deg @ 177.2 az	91.2 deg @ 177.2 az	91.2 deg @ 177.2 az	
, mstly h rare tly frsh rty,	chrt off wht lt gry shrp frsh opa, semi transl, mstly clr transp, shrp blkly ang shrds with tr rare scatt weath text, tr tan brn stain, nodor, NSFO, tr edge UV, tr lst as before, spls mstly frsh chrt	chrt wht off wht lt gry shrp frsh opa, transl, clr transp, "glassy", shrp ang blkly shrds, mstly barren, with tr weath edge, rare tr tan brn stain, tr hvy stain, nodor, tr lst off wht lt gry green sub chlyk tr foss, chrt in prt, chrt inclu tr glau	chrt wht lt gry shrp frsh opa transl, some clr transp. shrp blkly ang shrds inr weath tan brn staid vsli trip edge text, tan brn stain, nodor, no vis gas, spls vry fn, tr lst wht off wht f xln flky sub chlyk, chrt with chrt inclu, tr glau					
4720					4720			



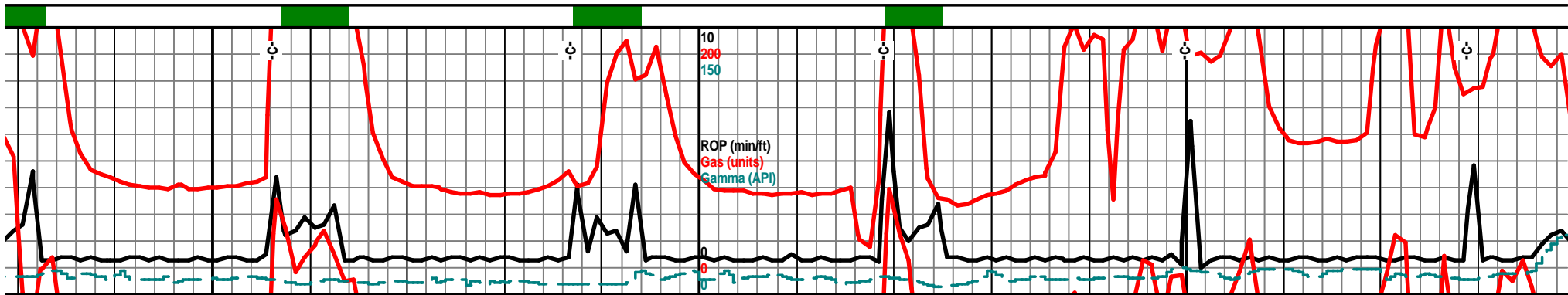
7260		7280		7300		7320		7340		7360		7380		7400									
Samples very fine																							
t gry shrp frsh opa, transl, clr shards, with incr weath sli trip is pp and moldic por, tr tan brn scatt UN on edges, tr lst aa, less																							
chrt off wht lt gry, vry lt gry smokey color, shrp frsh opa, transl, some clr transp, shrp blkly ang shards, foss, with sli weath tan brn stained edges, pp moldic por, tan brn stain tr hvly blk stain, nodor, dull scatt edge UV, lst as before																							
chrt off wht, tr wht, vry lt smokey gry, shrp frsh opa, transl, tr clr to transp, shrp blk ang shards, with weath tan brn sli trip text edges, tan brn stain, pp moldic small vug por, tr hvly blk stain, nodor, tr dull edge UV, tr lst wht off wht lt green, sub chlky chrtly with chrt inclu, tr glau																							
chrt wht off wht lt gry shrp frsh opa blkly shrds, chrt tan brn mott, tan br sli spongy trip text edges/sides, pp vug por, tan brn stain, tr hvly brn blk bubs, nodor, tr filmy SFO, tr floater: edge/side UV																							
4620 TVD																							
4670																							
4663' 90.3 deg @ 177.4 az				4662' 90.4 deg @ 177.2 az				4662' 90.5 deg @ 177.2 az				4662' 90.3 deg @ 178.1 az				4662' 89.4 deg @ 178.6 az				89. 1'			
chrt off wht lt gry tr lt gry/smokey color, shrp frsh opa transl, tr clr transp. blkly ang shrp shards, with incr tan brn stain weath text edges, incr pp moldic por, tan brn stain, tr hvly brn/blk stain, nodor, dull scatt edge UV, tr lst off wht lt green f xln flky, sub chlky, chrtly, glau																							
chrt off wht clr lt to vry lt smokey gry shrp frsh transl clr to transp in prt, tr weath tan brn stain sli trip text edges, tan brn stain tr blk hvly stain, nodor, NSFO, dull scatt edge UV, no change maynard																							
chrt wht off wht lt gry tr lt gry smokey, shrp frsh opa transl, tr clr transp, shrp blkly ang shrds, with tan brn stained weath sli spongy trip text, pp moldic vug por, tan brn stain, tr hvly brn blk stain tr gas bubs, tr floating droplets, dull edge UV, nodor																							
4720																							



7420	7440	7460	7480	7500	7520	7540	7560	
				4620 TVD				
iq transl, shrp m stain weath moldic por, lk stain, tr gas s, dull scatt	chrt wht off wht lt gry shrp frsh opaq transl, shrp blkly ang shards, with chrt wht tan lt gry mott, with weath sli trip tan brn stained text, tr spongy text, pp moldic por tr vug por, nodor, tan brn tr hvy brn blk stain, tr gas bubs, dull scatt edge UV		chrt wht off wht lt gry shrp frsh opaq, shrp transl, chrt tan wht brn mott, weath gran sli spongy trip text, tan brn tr hvy blk stain, pp moldic small vug por, sli odor, filmy SFO, floating droplets, fair scatt UV		chrt off wht lt gry shrp frsh blkly ang shards, some clr transp, mstly transl, and chrt wht tan lt brn mott, with tan brn stained weath sli spongy trip text, pp moldic small vug por, tan brn stain, filmy SFO, floating droplets, sli odor?? dull scattered UV, tr hvy grsy brn blk stain			
1662' 2 deg @ 78.6 az	4663' 89.6 deg @ 178.8 az		4663' 89.8 deg @ 178.3 az		4663' 89.6 deg 178.5 az		4663' 90.0 deg 178.5 az	4663' 89.7 deg 178.8 az
chrt wht off wht lt gry shrp frsh opaq, transl, shrp blkly shards, chrt gry tan lt brn mott with weath gran sli spongy tan brn stained sli trip text edges, tan brn tr hvy brn blk stain, filmy SFO, floaters, tr gas bubs, dull edge UV, nodor	chrt wht, off wht lt gry, lt gry smokey color shrp frsh opaq transl, with chrt lt tan lt brn tr lt gry mott, with tan brn stained weath sli trip some spongy text edges/sides, pp/moldic/vug por, tan brn tr hvy brn blk stain, tr gas bubs, filmy SFO tr floaters, dull scatt edge UV		chrt wht tr lt gry shrp frsh opaq, transl, some clr transp, mstly tan wht lt brn mott weath sli spongy trip text, pp moldic small vug por, sli odor, filmy RBSFO, floaters, dull scatt UV		chrt wht tr lt gry shrp frsh opaq, transl, some clr transp, mstly tan wht lt brn mott weath sli spongy trip text, pp moldic small vug por, sli odor, filmy RBSFO, floaters, dull scatt UV		chrt off wht lt clr transp, m mott, with tan style text, tan stain/SFO, pp floaters, odor	
				4720				



7580	7600	7620	7640	7660	7680	7700	7720	
7 am 7604' Bit Trip Thursday Nov. 8, 2012							4620 TVD	
chrt lt gry off wht shrp frsh opa, transl, some clr transp, shrp blk ang shards, and chrt tan brn mott, weath gran spongy trip text, pp moldic small vug por, tan brn stain, tr tan brn/blk hvy grsy stain, filmy SFO, floaters, dull scat UV		chrt wht off wht, clr transl, mstly opa to transp, shrp frsh blk sharp shards, lst wht lt green tint, f xln flky chiky glau, chrt wht tan mott weath spongy sli trip text, pp moldic por, tan brn stain, tr hvy bry blk stain, dull edge UV			chrt wht off wht some lt gry, shrp frsh opa transl, blk ang pcs, with chrt wht tan brn mott, tan brn stained weath sli spongy sli trip text, pp moldic por, vug por, tan brn stain tr hvy blk stain, dull scatt UV			
4663' 89.7 deg @ 179.2 az		4663' 90.0 deg 179.2 az			4664' 89.1 deg @ 178.8 az		4664' 87. deg @ 179.5 az	4666' 87.6 deg @ 179.0 az
: gry shrp frsh blk ang shrds, some sity transl, and chrt wht tan lt brn 1 brn stained weath sli spongy trip 1 brn stain, tr brn/blk hvy grsy moldic small vug por, filmy SFO, ??? scattered edge UV		chrt wht off wht of gry shrp frsh opa, transl, tr transp, wht shrp frh with tan brn stained weath sli spongy text, pp moldic por, tan brn stain, filmy SFO, lst wht some lt green f xln flky sub chiky glau chrt, chrtly inclu, wht chrt aa with lst edges, tr stain			chrt wht shrp frsh opa, chrt off wht lt gry shrp frsh opa, blk ang shards, chrt tan brn mott, weath gran tr spongy trip text tan brn stain, tr hvy stain, tr gas, filmy SFO, lst off wht lt green f xln sub chiky chrt, chrt inclu, tr stain			chrt wht off wht tr lt gry shrp fr transl, shrp blk ang pcs/sharc wht mott, with weath sli spong edges/sides, pp moldic vug po stain, filmy SFO, floating dropl dull edge UV
4720							4720	



7740 7760 7780 7800 7820 7840 7860 7880

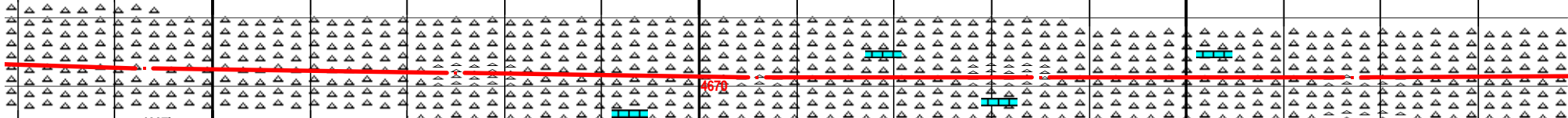
4620 TVD

chrt off wht, wht, lt gry, shrp frsh opa, sub transl, incr clr transp, shrp blk ang shrds, chrt wht tan lt brn mott color, with weath sli spongy trip text edges/sides, pp moldic and small vug por, tan brn tr hvy blk stain, filmy SFO, floaters, tr gas bubs, lst off wht green f xln flky chiky chrty glau

chrt wht off wht some lt gry, shrp frsh opa trans, shrp blk pcs, with chrt wht tan brn mott weath spongy trip text, pp moldic por, tan brn stain, SFO, filmy SFO, gas bubs, tr hvy blk stain

chrt wht off wht shrp frsh opa, semi transl, shrp blk shards, with chrt tan wht brn mott, weath gran sli spongy text, soft, vug, moldic, pp por, tan brn stained, SFO, filmy SFO, floating drops, tr gas bubs, dull UV, sli odor

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sc



4678

4667'
88.4 deg @
179.9 az

4668'
88.6 deg @
180.2 az

4668'
89.6 deg @
180.2 az

4668'
90.2 deg @
180.4 az

4668'
90.4 deg @
180.0 az

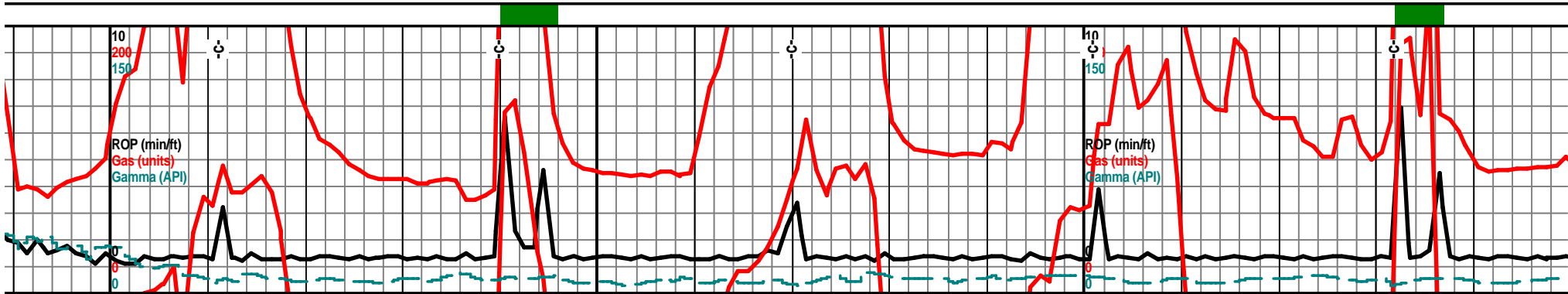
sh opa, sub ls, chrt tan lt brn y trip text r, tan brn tr hvy blk ets, nodor, scatt

chrt off wht, wht, lt gry, shrp frsh opa, sub transl, some clr transp, shrp blk shards, with chrt tan brn off wht mott, weath sli spongy trip text edges, pp moldic some small vug por, tan brn tr hvy blk stain, filmy SFO, floaters, tr gas bubs, tr lst as before

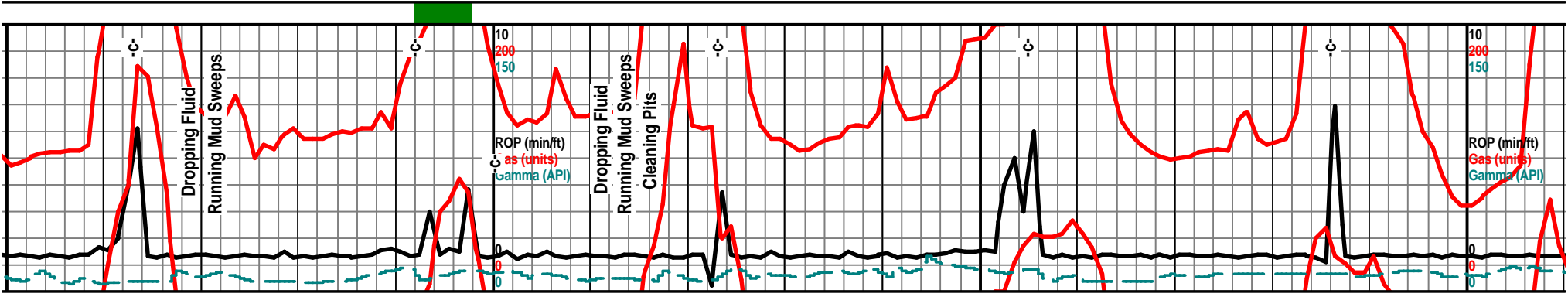
chrt wht off wht shrp frsh blk ang opa pcs, chrt tan brn wht mott, weath gran spongy text, pp moldic por, vug por, tan brn stain, tr hvy blk stain, SFO, filmy SFO, gas bubs, scatt dull UV, sli odor

chrt off wht wht shrp blk ang semi opa, cloudy chrt tan wht brn mott, gran weath spongy trip text, pp moldic vug por, tan brn stained, tr hvy brn blk stain, SSFO, filmy SFO, gas bubs, sli odo dull scatt UV

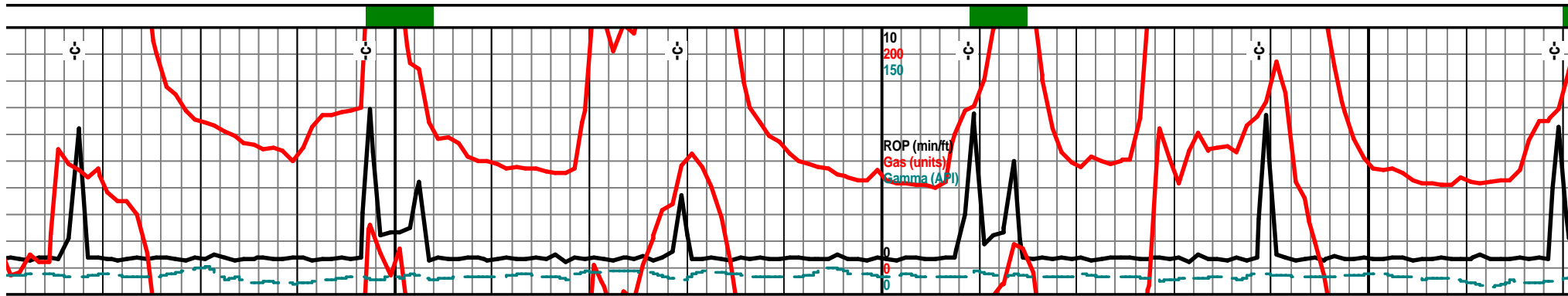
4720



7900	7920	7940	7960	7980	8000	8020	8040
7904' 7am Friday Nov. 9, 2012						4620 TVD	
<p>irt wht frsh shrp opa cloudy, transl, blk ang irp/dull pcs, with chrt wht off wht and tan brn off color, tan brn stain, pp moldic vug por, tan 'n stain, tr hvy brn blk stain filmy SFO, gas bbs, dull UV, tr wht off wht lst, fily sub chky xft chrt, with chrt inclu, tr glau</p>		<p>chrt wht off wht tr lt smokey gry shrp fsh opa and blk shards, chrt wht tan brn mott, weath spongy limy sli trip text, tan brn stained, pp moldic vug por, filmy SFO, tr gas bubs, sli odor</p>		<p>chrt wht shrp frsh blk cloudy opa, chrt tan brn mott, weath gran spongy trip text, tan brn tr drk brn blk stain, pp moldic vug por, sli odor, dull scatt UV, filmy SFO, filmy FSO gas bubs gd shows!</p>		<p>chrt wht off wht som blk ang hrd shards, brn mott, with weath gd vug por, tan brn odor, filmy SFO, SSF UV, good vis shows</p>	
4668' 90.5 deg @ 180.0 az		4668' 90.6 deg @ 180.0 az		4668' 89.7 deg @ 179.5 az		4668' 89.6 deg @ 179.2 az	
		<p>chrt wht off wht lt gry in prt, shrp frsh, transl, some opa/cloudy, shrp blk ang shards, chrt wht tan brn mott, with weath sli trip spongy soft text, pp moldic por, vug por, tan brn tr hvy brn/blk stain, sli odor, filmy SFO, floaters, dull edge UV</p>		<p>chrt wht shrp frsh opa transl, cloudy shrp blk ang pcs, with chrt wht tan brn mott, weath spongy limy trip text, pp moldic por vug por, tan brn stain, tr brn/blk hvy stain, sli odor, filmy SFO, floating droplets, fair/dull UV</p>		<p>chrt wht off wht frsh shrp opa sub transl, tr lt smokey gry, shrp blk ang shards mstly chrt tan wht brn mott, weath gran spongy trip text, pp moldic gd vug por, tan brn stain, tr hvy brn blk stain, gas bubs, SSFO, floating oil droplets, dull UV</p>	
4720						4720	

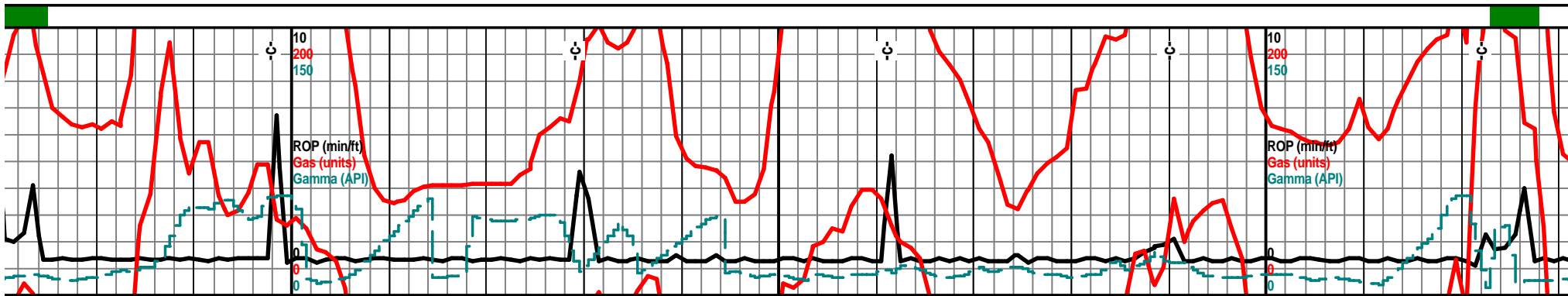


8060	8080	8100	8120	8140	8160	8180	8200
		4620 TVD					4620 TVD
ie lt smokey gry, opaq shrp, mstly chrt wht off wht tan spongy trip text, pp moldic stain, tr hvy brn blk stain, sli floaters, gas bubs, dull		chrt off wht wth shrp frsh opaq blk ang shrp pcs, chrt tan brn wht off wht mott, with tan brn stained weath spongy trip text, pp moldic por, tan brn tr hvy brn blk stain gas bubs, SSFO, gd UV, filmy SFO, floaters		chrt off wht wht, tr lt smokey gry, shrp frsh opaq, cloudy, transl, ang blk shards, chrt tan wht brn mott, weath trip sli spongy text, pp moldic por, tan brn stain tr drk blk stain, filmy SFO, sli odor, gd scatt UV			chrt wth off wht shrp frsh opaq cloudy, c drk brn mott soft gran trip tr spongy text pp moldic, vug por, drk tan brn msly blk fair SFO, gas bubs, dull UV, fair odor
	4669'		4670'	4671'		4671'	4672'
	88.5 deg @ 179.2 az		88.5 deg @ 179.2 az	88.8 deg @ 179.0 az		89.2 deg @ 179.2 az	89.5 deg @ 179.0 az
chrt off wht to wht, with tr lt smokey gry shrp frsh opaq blk ang shards, with chrt tan brn off wht mott, tan brn stained weath sli spongy trip text, pp moldic por, vug por, sli odor SSFO, filmy SFO, gd show, dull UV			chrt off wht, wht shrp frsh opaq blk ang shards, tr lt gry smokey shrp frsh transl shrp pce, mostly chrt wht off wht tan brn mott, weath spongy trip text, pp moldic and vug por, tan brn tr hvy brn blk stain, SSFO, filmy SFO, sli odor, gas bubs, floaters, fair to dull UV			chrt wht off wth shrp frsh opaq blk ang pcs, chrt off wht tan brn mott, gran weath spongy trip text rx, pp moldic por, vug por, tan brn tr drk brn blk stain, sli odor, SFO, gas bubs, filmy SFO, floaters, dull UV	
		4720					4720

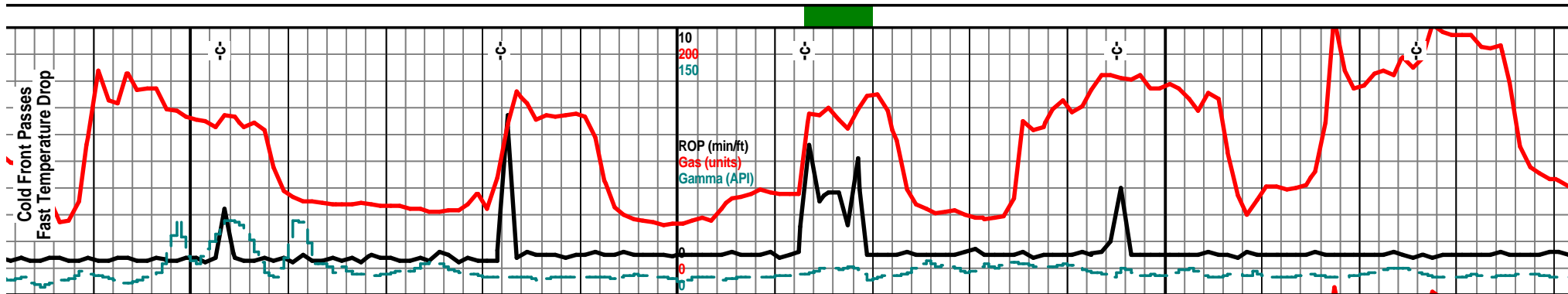


8220 8240 8260 8280 8300 8320 8340 8360

							4620 TVD				
chrt tan : , gd vis stain,		chrt wht tr lt gry in prt, shrp frsh opa q transl, mstly chrt tan wht brn blk mott, weath spongy trip gran text, gd vis pp moldic and vug por, tan brn, drk brn blk stain/SFO, tr hvly blk tar stain, fair odor, dull UV, filmy SFO, gas bubs					chrt off wht msly wht, tr lt gry shrp frsh opa q cloudy, trnsl, some shrp frsh opa q transl, shrp blky shrds, mstly wht tan brn mott, tr blk, weath gran semi spongy trip text, gd vis vug, moldic, and pp por, tan brn tr blk stain, tr hvly grsy blk stain, SSFO, filmy SFO, gas bubs, even UV		chrt wht off wht shrp frsh cloudy semi opa q, semi transl, shrp blkly and shrds, with chrt tan brn some blk mott, weath gran semi spongy trip text, gd vis pp moldic and vug por, tan brn tr blk stain, tr hvly grsy blk stain, SSFO, filmy SFO, gas bubs, even UV, odor, floaters		
		4672'		4672'		4672'		4672'		4673'	
		89.7 deg @ 178.6 az		89.5 deg @ 179.3 az		89.9 deg @ 179.3 az		89.3 deg @ 179.9 az		89.4 deg @ 179.5 az	
chrt off wht, wht shrp frsh opa q cloudy, transl, mstly chrt wht tan brn and blkly mott, gd vis vug moldic por, pp por, tan brn and blk stain brn blk SFO, filmy SFO, gas bubs, dull UV, fair odor		chrt wht off wht tr lt gry shrp frsh opa q transl, mstly chrt wht tan brn some blk mott weath gran tr spongy trip text, pp moldic por, gd vug por, tan brn blk stain, tan brn blk SFO, filmy SFO, tr gas bubs, sli odor, dull even UV					chrt off wht mstly wht, tr lt gry shrp frsh opa q cloudy, transl, some shrp frsh opa q transl shrp blkly shards, mstly tan brn mott, tr blk, weath gran semi spongy trip text, gd vis vug moldic and pp por, tan brn blk stain, tr hvly grsy blk stain, SSFO, filmy SFO, floaters, gas bubs				chrt wht, off wht blkly ang shrp sl weath trip sli sp tr hvly grsy blk s por, odor, SSFO sat.
							4720				



8380		8400		8420		8440		8460		8480		8500		8520	
		4620 TVD				7 am 8429' Bit Trip Saturday Nov. 10, 2012						4620 TVD			
chrt off wht, wht, lt gry shrp frsh opa, transl, cloudy, shrp blk ang shrds, with chrt tan brn wht mott, weath trip sli spongy text, tan brn and hvy grsy blk stain, gd vis pp moldic and vug por, SFO, filmy SFO, tr gas bubs, even UV						chrt wht off wht tr lt gry shrp fsh opa transl, shrp blk ang pcs with chrt tan wht brn mott weath trip text, spongy text in prt, gd vis pp moldic por, vug por, tan brn stain, tr blk stain even UV, VSSFO, odor? tr gas bubs						chrt wht off wht, tr lt gry off wht/gry, shrp frsh opa, with chrt wht off wht, tan lt brn mott, weath trip sli spongy text, pp moldic por, vug por, tan lt brn, brn stain, tr hvy blk stain, filmy SFO, scatt/even UV, odor?			
		4673'		4674'		4674'		4675'		4676'		4676'			
89.0 deg @ 177.9 az				88.7 deg @ 179.7 az				89.1 deg 179.9 az				89.4 deg @ 179.5 az		89.3 deg @ 179.2 az	
t, tr lt gry, shrp frsh opa transl, nrds, mstly chrt tan brn mott with ongy text, tan brn and blk stained, stain, gd vis moldic, pp and vug, filmy SFO tr gas bubs, even UV				chrt off wht lt gry, shrp frsh opa, transl, shrp blk shrds, mostly tan brn wht mott, weath gran sli spongy trip text, tan brn tr hvy grsh blk stain, gd vis pp moldic and vug por, SSSFO, filmy SFO, gas bubs, sli odor, dull even UV sat				chrt wht lt gry shrp frsh opa transl, glassy, bky ang shrp shards, chrt tan wht brn mott, weath trip text, spongy text, gd vis pp moldic vug por, tan brn stain, tr hvy blk stain, grsy SFO, floaters, sli odor, even sat/UV				chrt off wht tr lt gry/wht, shrp frsh l sub transl, tr cloudy, with chrt tan weath trip sli spongy text, pp mold tan brn stain, tr hvy blk stain, filmy droplets, scatt/even UV nodor			
		4720										4720			



8540 8560 8580 8600 8620 8640 8660 8680

4620 TVD

chrt off wht wht, lt gry/wht, shrp frsh opa, sub transl, cloudy, blk ang shrds, with mstly chrt tan lt brn brn stained weath trip sli spongy text, gd pp moldic and vug por, tan brn tr hvy blk stain, VSSFO, filmy SFO, tr gas bubs, scatt/even UV, odor?

chrt some wht, mstly off wht lt gry some smokey shrp frsh opa, tan lt brn stained weath edge text, pp moldic por, tan brn stain, tr hvy blk stain, scatt edge tr even UV, floaters, nodor

chrt off wht lt gry, lt tan brn, shrp frsh opa, transl, shrp blk ang shards, with weath trip edge text, tan brn stain, pp moldic por, tr vug por, sli odor, VSSFO, some floaters, sli odor, dull scatt/even UV

chrt o opa, por, tr scatt i



4676' 88.9 deg @ 179.2 az

4676' 89.4 deg @ 179.3 az

4676' 89.6 deg @ 179.0 az

4677' 88.7 deg @ 179.2 az

4677' 88.7 deg @ 179.0 az

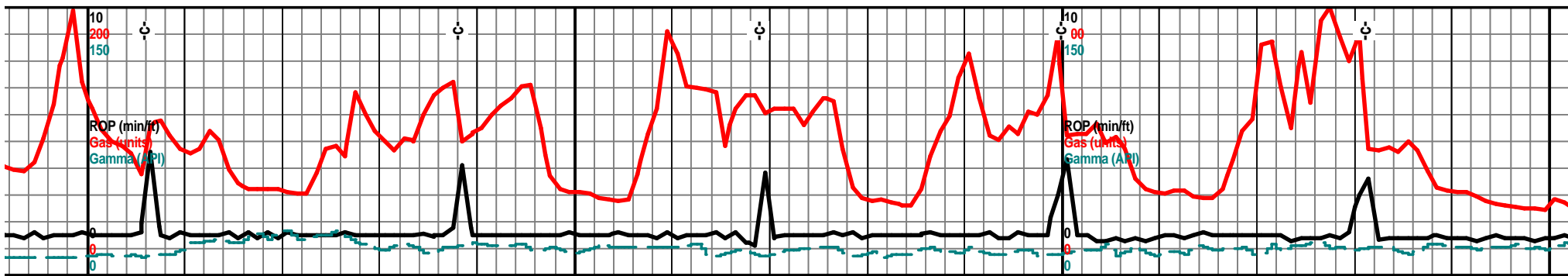
blk ang opa, wht lt brn mott, ic por, vug por, SFO, floating

chrt off wht, incr lt gry clr, shrp frsh opa, sub transl, shrp blk ang shrds, chrt wht tan brn mott with weath sli spongy trip text, pp moldic por, tan brn stain, tr hvy blk stain, floaters, scat/evin UV, | incr lst wht/green f xln flky chlky chrt, chrt inclu, glau

chrt off wht lt gry shrp frsh opa transl, some transp, shrp blk ang shards with weath trip edges, tan brn stained, pp moldic por, tr hvy blk stain, SSFO/brkn, sli odor, floating drops, scat/even UV

chrt off wht lt gry shrp frsh opa blk ang trans shrp shards, with tan lt brn brn stained weath trip edge text, pp moldic por, vug por, sli odor, VSSFO/floaters, dull scat/even UV

4720



8700 8720 8740 8760 8780 8800 8820 8840

4620 TVD 7 am 8735' Sunday Nov. 11, 2012 4620 TVD

ff wht lt gry incr frsh, shrp blkly ang shrds, transl, with weath trip text edge, pp moldic por, tan lt brn, brn stain, odor?, dull to even UV

chrt off with lt gry (spls incr frsh content) shrp frsh opaqt transl, blkly ang shrp shards, with weath gran trip text sides/edges, tan brn stained, tr hvy blk stain odor?, filmy SFO, tr floaters, dull scatt to even edge UV

chrt off with lt gry shrp frsh opaqt, mstly transl, some transp, shrp blkly ang shrds, (spl 90% frsh chrt) with tr weath trip text edge text, tr pp por, tan brn stained edges, nodor, dull edge UV, no SFO

chrt off wht lt gry shrp frsh transl, blkly ang shrp shard text edges/sides, pp tr molc stain, dull scattered edge U gas, tr floating droplets, spl



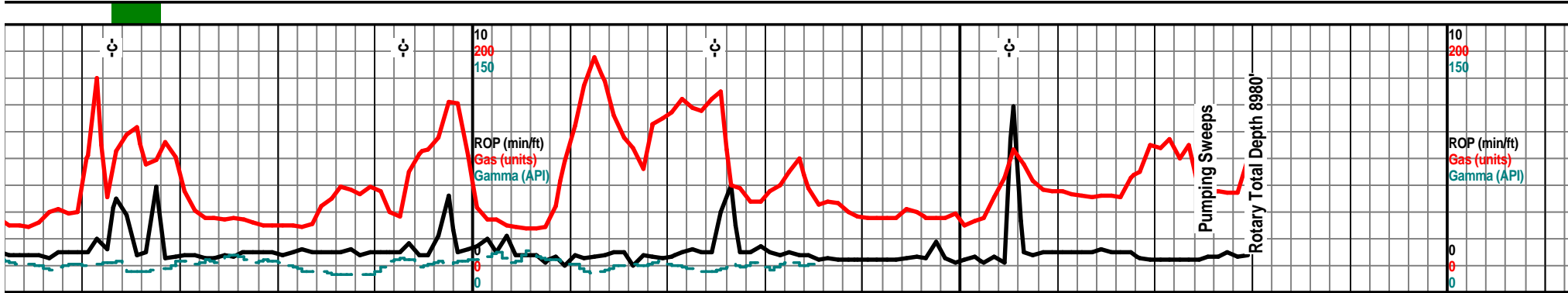
4678' 8.9 deg @ 179.0 az 4679' 89.2 deg @ 178.6 az 4679' 89.5 deg @ 178.5 az 4679' 89.5 deg @ 177.9 az 4679' 90.0 deg @ 177.9 az 4679' 90.3 deg @ 177.9 az

chrt off wht, wht, lt gry, gry/tan, shrp frsh opaqt, transl, shrp blkly ang shrds, with weath tan brn stained trip edge text, pp moldic por, tr blk hvy stain, sli odor, filmy SFO, floating drops, tr gas bubs w/brkn

chrt off wht lt gry, mstly frsh (spl 90% frsh), shrp blkly ang shrds, opaqt mstly transl, some transp, with tr weath edges, tan brn stained sli weath edges, tr pp por, nodor, dull egde UV poor shows

chrt off with lt gry shrp frsh opaqt, transl, some transp, shrp blkly ang shards, with tr weath sli trip edge text, tan brn stained sli trip edges, pp por, tr hvy blk stain, nodor, NSFO, scatt dull edge UV

4720 4720



8860	8880	8900	8920	8940	8960	8980	9000
		4620 TVD				Rotary Total Depth 8980' TVD 4679' (-3207) 5 pm on 11-11-12	4620 TVD
opaq, transl, some ls, with tr weath sli trip fic por, lt tan lt brn V, NSFO, nodor, no msly frsh barren chrt		chrt lf wht off wht lt gry, clr, glassy, shrp frsh transl, mstly transp, blkly ang shrp shards, with tr rare weath tan lt brn stained trip text edges/sides, tr pp moldic por, nodor, NSFO, do have some floaters, scatt rare dull edge UV, lst wht chiky softy chrty, chrt aa with lst edges, tr glau			chrt off wht, tr wht, lt gry shrp frsh opaq, transl, mstly transp, with tr tan brn stained weath sli trip text, tr rare blk hvy stain, tr pp moldic por, nodor, NSFO, no gas bubs, some floating drops, dull scatt edge UV poor show!		
		4670				4670	
		4679' 89.9 deg @ 177.8 az				4679' 90.0 deg @ 177.1 az	
chrt off wht lt gry clr, glassy, shrp frsh opaq, transl, mstly transp, blkly ang shrds, with tr weath sli trip edge/sides, tan lt brn stain, tr pp moldic por, nodor, NSFO, tr scatt edge UV, tr lst wht/green f xln flky, soft, sub chiky, glau		chrt off wht, wht, lt gry clr glassy, shrp blkly ang pcs, transl, mstly transp, some opaq, with tr weath tan lt brn stained edges/sides, tr pp moldic por, tan brn tr hvy blk stain, mstly just frsh barren			chrt off wht lt gry, some wht.gry specked, shrp frsh opaq, transl, some transp, hrd blkly ang shards, with tr weath sli trip edge/side text, (90% barren frsh chrt), tr pp small vug por, nodor, dull scatt edge UV		
		4720				4720	

10
~~200~~
150

ROP (min/ft)
Gas (units)
Gamma (API)

0
~~0~~
0

9180 9200 9220 9240 9260 9280 9300

4620 TVD

4670

4720