



Woolsey Operating Company, LLC

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

Well Name: Miller-Diel 1 H
Location: Section 14 - Township 34 South - Range 11 West
License Number: 15-007- 23928-01-00 Region: Barber County, KS
Spud Date: August 5, 2012 Drilling Completed:
Surface Coordinates: SW SE SE SW
13' FSL, 2115' FWL
Bottom Hole Coordinates: 330' FSL and 1980' FWL
Section 23 - Township 34 South - Range 11 West
Ground Elevation (m): 1380' K.B. Elevation (m): 1397'
Logged Interval (m): 4000' To: Total Depth (m):
Formation: Kansas City Group ----> Mississippian
Type of Drilling Fluid: 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

Comments

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

Crews

Dan D Drilling Rig 11, Mitch Sovia-Toolpusher, Sammy Fry-Relief
 Drillers: (12 hour tours) Johnny Stone, Terry Stark, David Herring, Jeffery Meyers. Roughnecks: Assorted Okies.

ROCK TYPES

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

ACCESSORIES

MINERAL

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

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

FOSSIL

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

Ostra
Pelec
Pellet
Pisolite
Plant
Strom

STRINGER

Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst

Sltstrg
Ssstrg

TEXTURE

Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

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

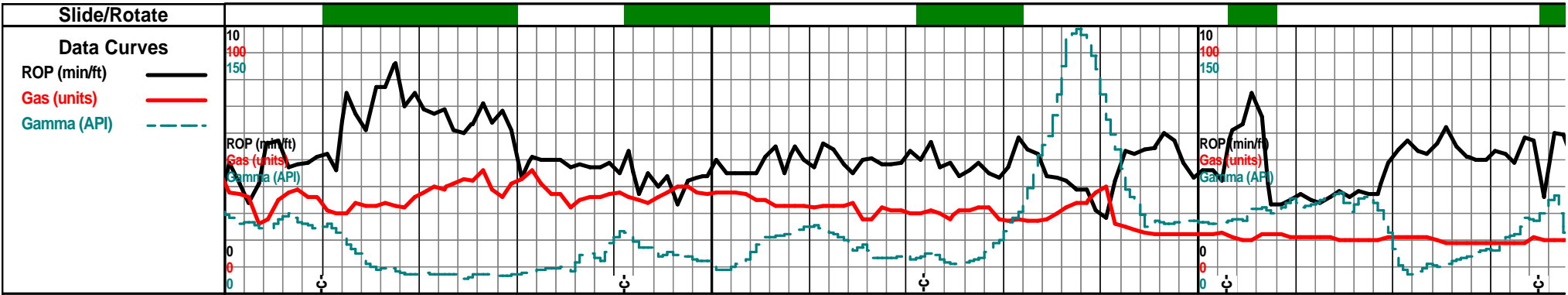
- Q Ques
- D Dead

INTERVAL

- C Core
- D Dst

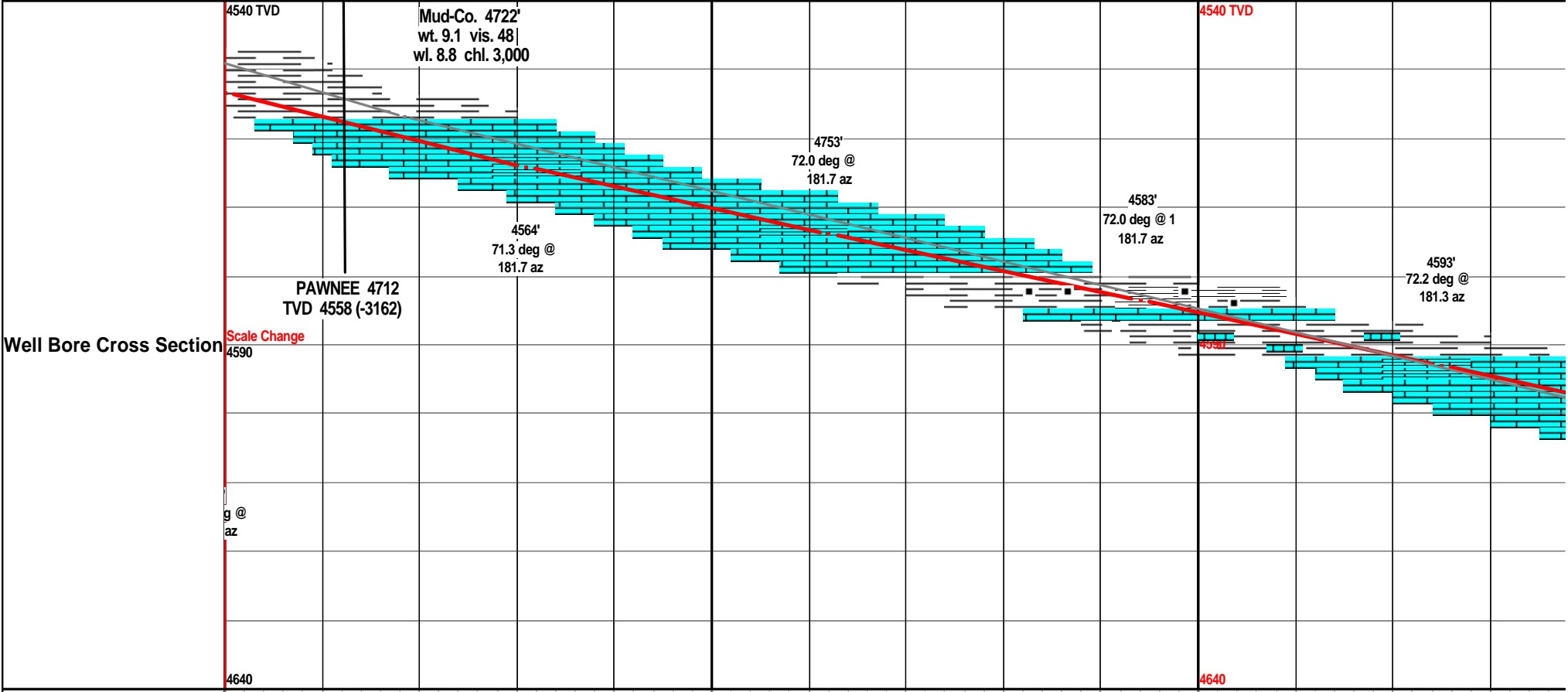
EVENT

- R Rft
- S Sidewall

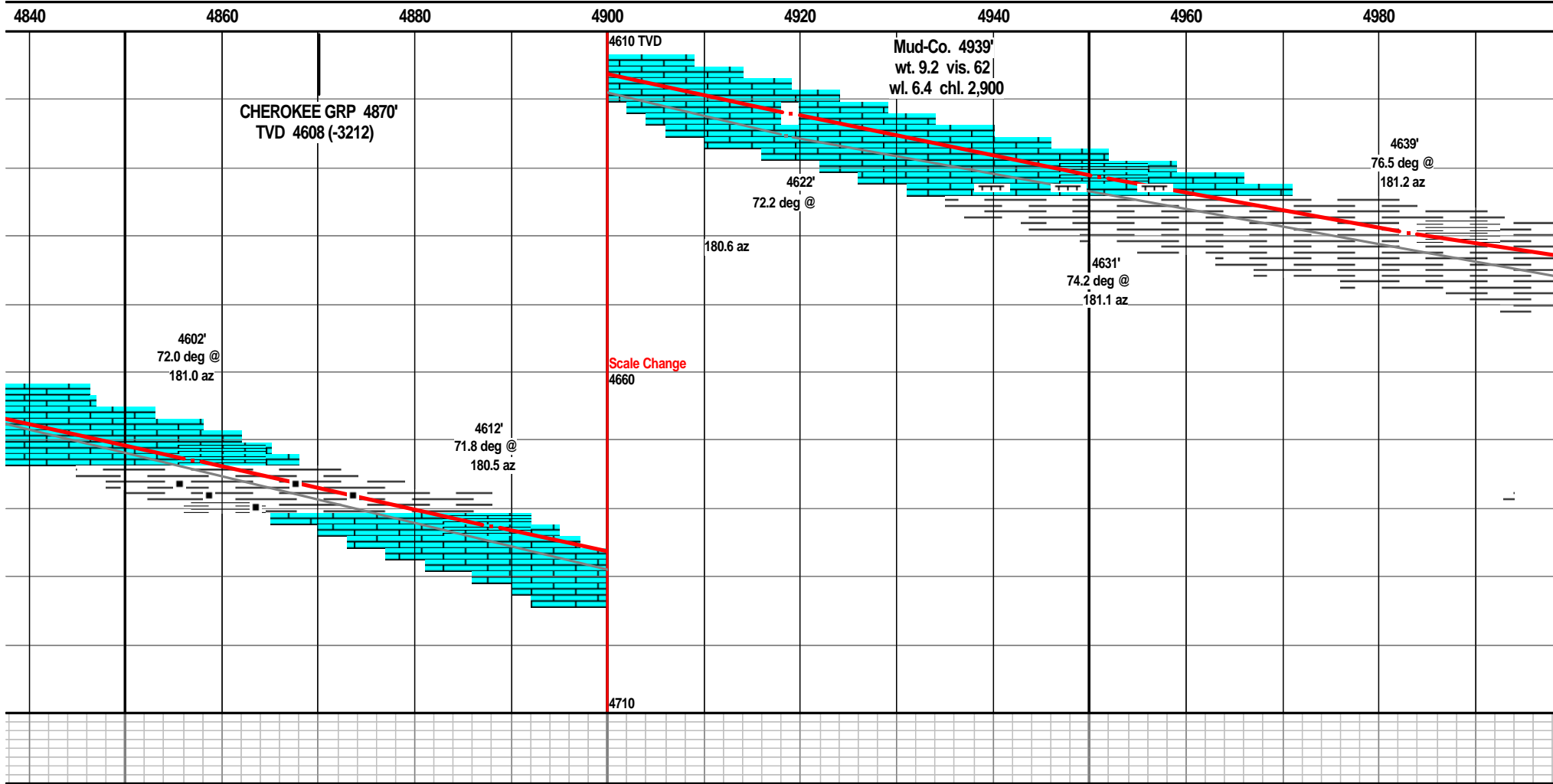
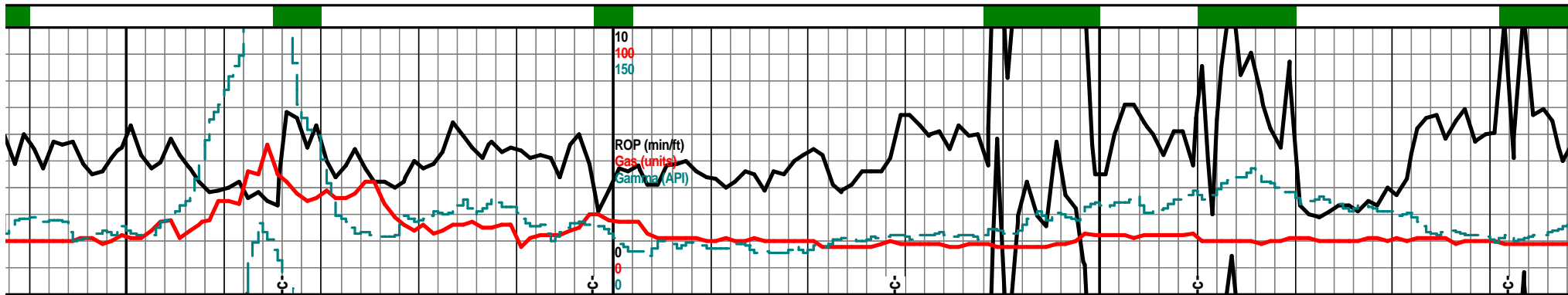


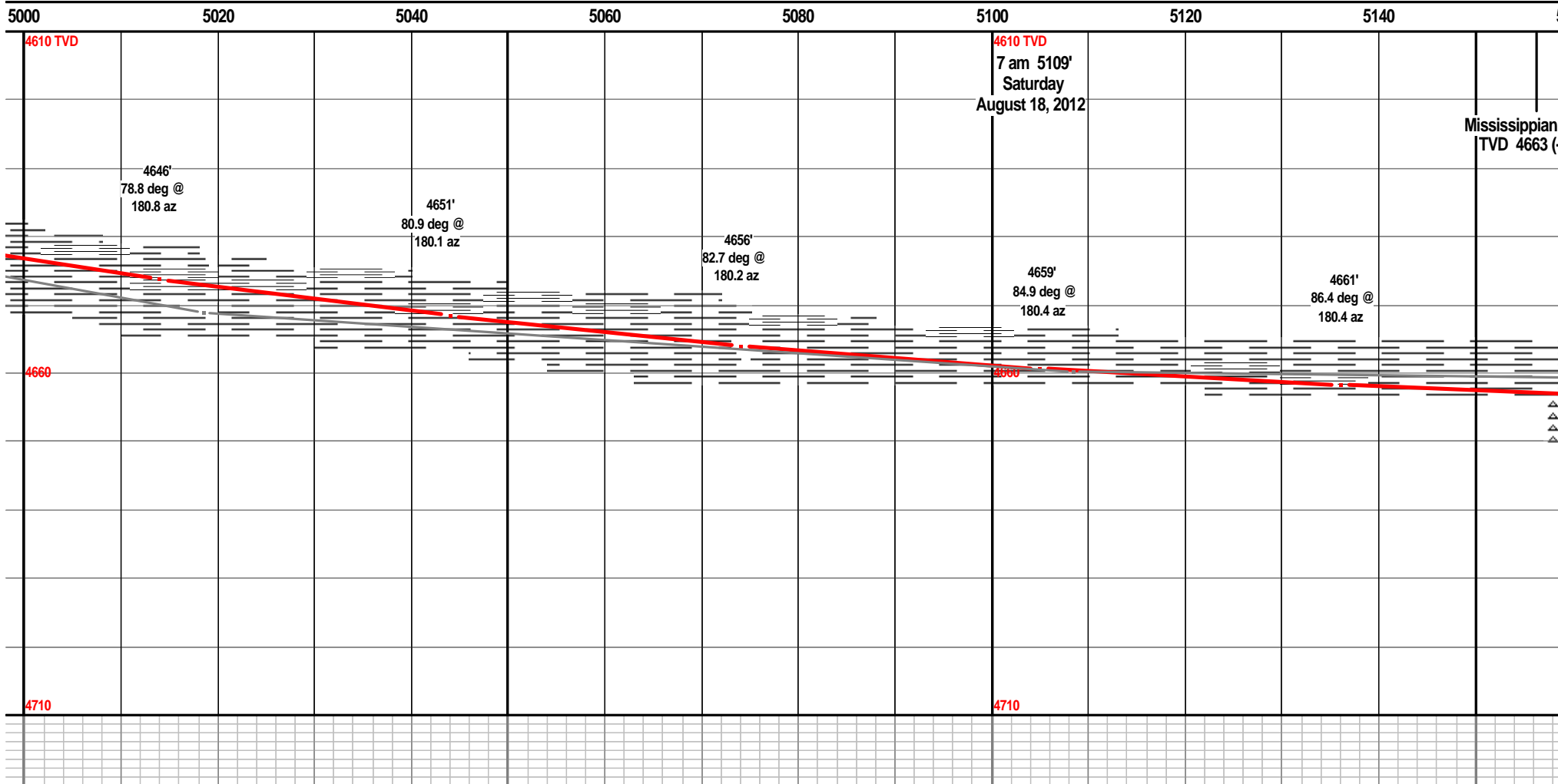
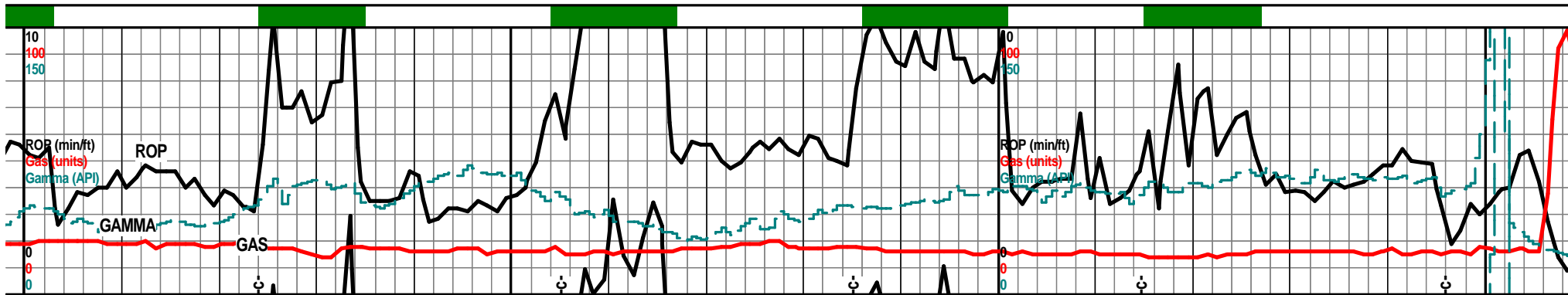
Oil Shows

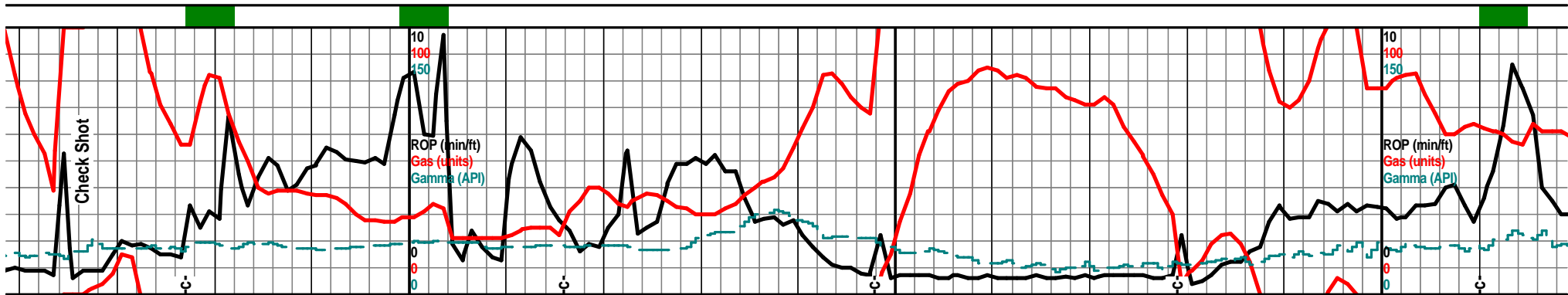
Depth 00 4720 4740 4760 4780 4800 4820



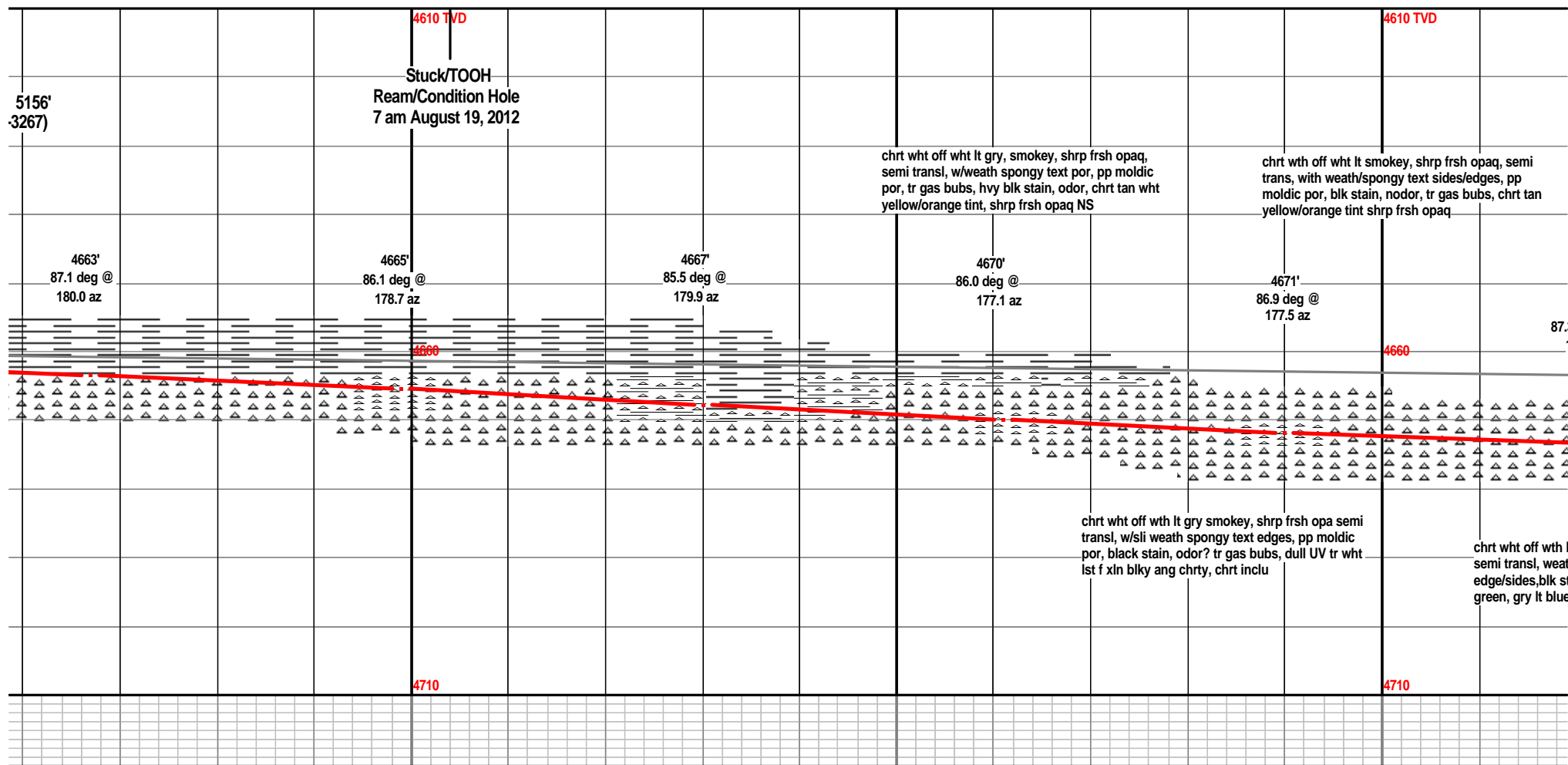
Porosity	24%
	18%
	12%
	6%
Porosity Type	

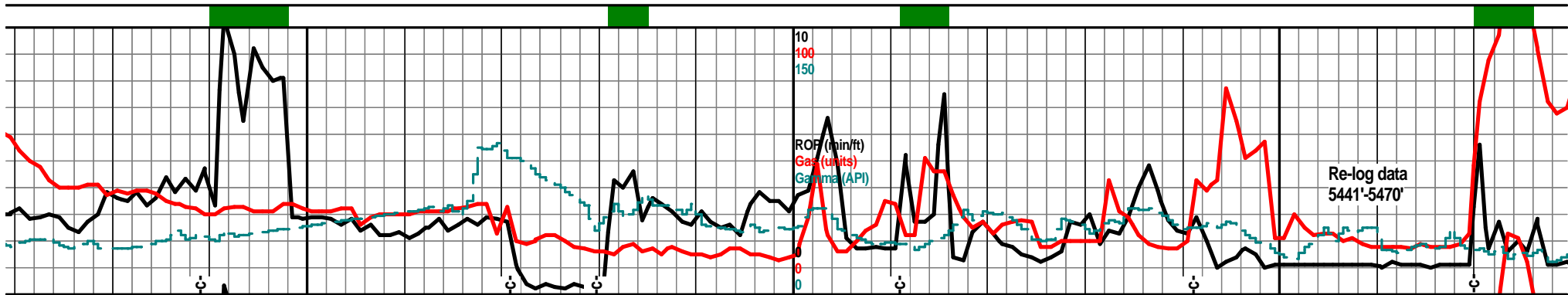






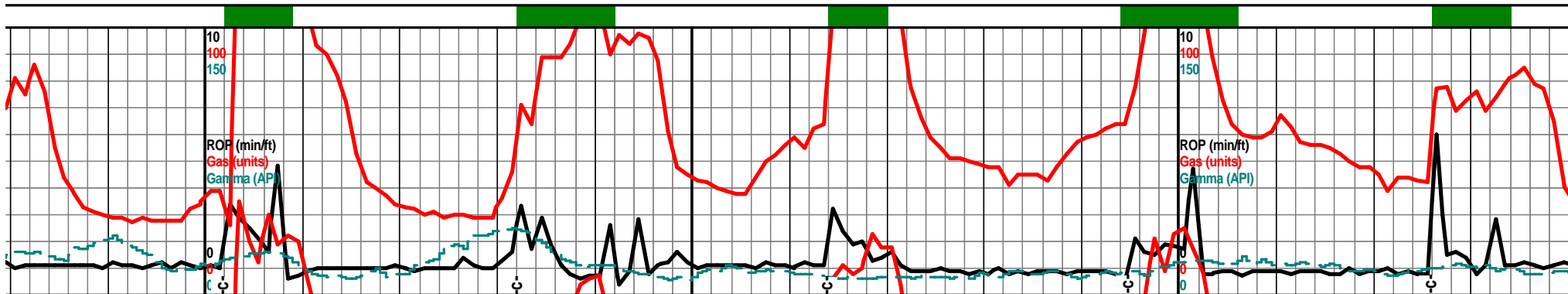
5160 5180 5200 5220 5240 5260 5280 5300 5



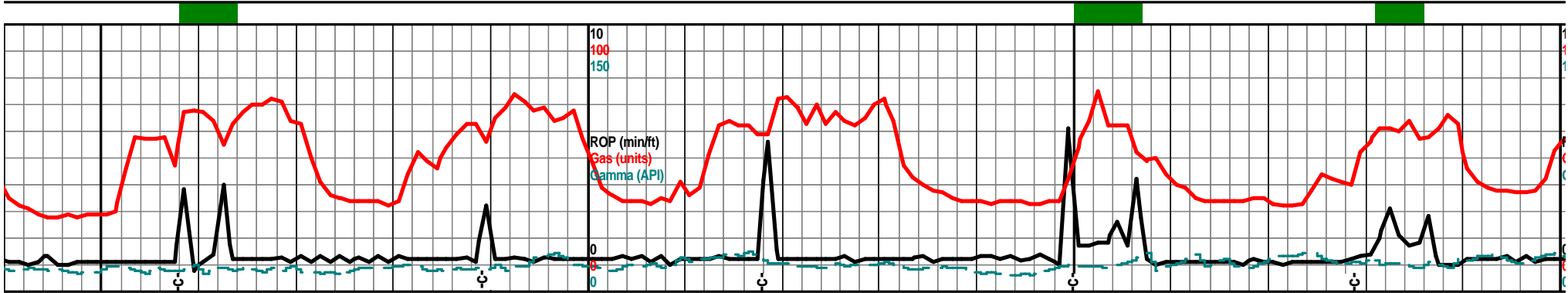


5320 5340 5360 5380 5400 5420 5440 5460 5480

4610 TVD										7 am 5470' August 22, 2012			
7" Casing Point 7 am Monday, August 20, 2012													
chrt wth off wth lt gry, gry/smokey shrp frsh opa semi transl, weath gran text edge, tr spongy/chlky weath edge, pp moldic por, blk stain, chrt yellow lt orange tint, shrp frsh opa ns, tr lst tan f xln gran blkly chlky chrt, chrt inclu			chrt wth off wth lt gry lt smokey, shrp frsh, opa transl, semi transl, vit, with tr weath edge, tr pp moldic por, tan brn stain, nodor nsfo, no gas			chrt off wth lt gry, lt smokey gry, shrp frah opa, semi transl, tr tan brn mott, tr weath text por, tr pp moldic por, brn stain, msly frsh shrp chrt			chrt off wth lt gry wth, shrp frsh opa, semi transl, with tan brn mott weath text, tan brn stain, pp moldic por, sli odor, filmy sfo, tr gas				
4673' 3 deg @ 177.1 az			4677' 85.9 deg @ 177.1 az			4660'			4679' 85.6 deg @ 177.3 az			MWD Gamma tool went down, part of this hole was re-logged. Some Tooke data was lost/changed from 5449' to 5470'	
lt gry smokey, shrp frsh opa th gran tr spongy weath text tain nodor, tr gas bubs, shl gry green silty			chrt off wth lt gry, gry/smokey shrp frsh opa, transl, tr weath gran soft edge, tr spongy edge text pp moldic por, blk stain, nodor, tr gas bubs, NSFO, lst tan off wth fxln blkly ang chrt			chrt lt gry lt smokey, off wth, shrp frsh, opa, blkly ang shards, semi transl, sli opa, tr with tan brn mott, tr weath text por, tr pp moldic por, brn stain, mstly shrp frsh			chrt lt gry off wth tr smokey shrp frsh opa, semi trans, tan brn mott in prt with tr weath edge text por, tr pp moldic por, brn stain, nodor, NSFO, mstly frsh			chrt wth off wth lt sm semi transl, with wea tan brn mott stain, fil	
4710													

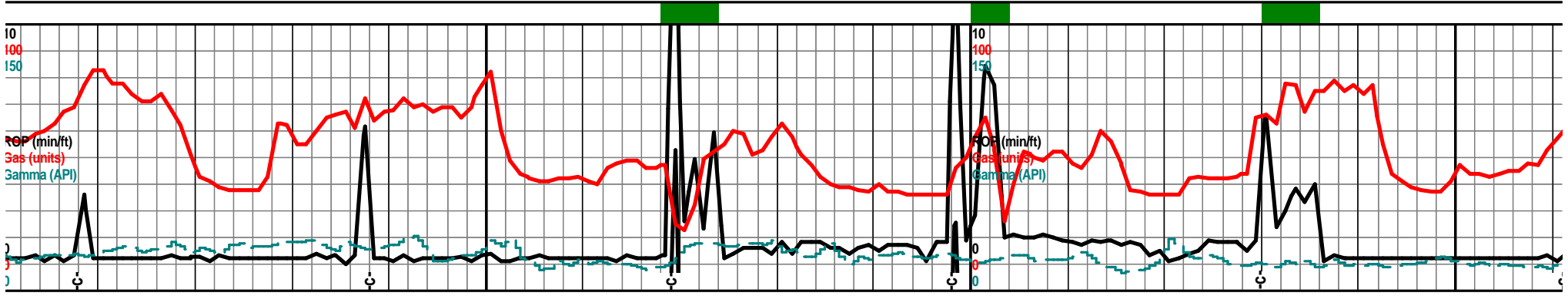


480	5500	5520	5540	5560	5580	5600	5620	56
	4610 TVD			4640 TVD		4640 TVD		
						Mud-Co. 5601' wt. 8.3 vis. 26 wl. N/C chl. 850		
chrt off wht lt gry, shrp frsh opa semi transl, with tr weath edge, pp moldic por, tan brn stain, tr filmy sfo, gas bubs, lst wht f xln sub chky chrt glau			chrt wht off wht, tr lt gry smokey, shrp frsh blk ang shards, semi transl, with sli weath sli trip edge text, pp moldic por, tan brn stain, dull UV		chrt wht off wht lt gry, shrp frsh opa, transl, with fair & incr weath sli trip text edges, tan brn mott color, tan brn stain, sli odor, gas, dull UV		chrt lt gry, gry tan brn mott, shrp frsh with weath gran trip edge text, brn tan stain, pp moldic por, fair/gd odor, gas bubs, filmy SFO,	
					4692' 86.3 deg @ 179.7 az	4694' 87.0 deg @ 180.1 az		4696' 87.8 deg @ 180.1 az
	4660			Scale Change		4690		
4684' 85.1 deg @ 176.6 az		4687' 84.5 deg @ 177.5 az		4689' 85.4 deg @ 178.7 az				
sokey gry, shrp frsh opa semi transl, with weath edge por, pp moldic por, tan brn stain, tr gas bubs, dull UV		chrt wht off wht tr lt gry shrp frsh opa transl, tr weath tan brn stained edge, pp moldic por, tan brn stain, sli odor		chrt wht off wht lt gry shrp frsh, opa semi transl, with incr weath trip text edges, fair tan brn stain, sli odor, filmy sfo, tr gas dull UV		chrt wht, lt gry lt smokey in prt, shrp frsh opa semi transl shards, with weath sli trip text edges, tan brn mott color with tan brn stain, filmy sfo, gas bubs, dull UV		chrt wht gry, gry tan semi transl with weath por, tan brn mott color, gas bubs dull UV
4710				4740		4740		



40 5660 5680 5700 5720 5740 5760 5780 5800

			4640 TVD						
	chrt lt gry smokey shrp frsh opaq semi transl, with gran soft spongy text edge, spongy text with tan brn blk mott edge stain, pp moldic por, tan brn blk stain, dull UV, tr filmy sfo sli odor		chrt lt gry smokey shrp frsh opaq semi transl, chrt wht soft spongy, gran, weath sli trip text, pp moldic por, tan brn stain, hvy sfo, dull UV, tr gas sli odor		chrt off wht lt gry lt smokey shrp frsh opaq semi transl, mstly frsh with tr weath spongy sli trip text edges, tan brn mott color stain, dull VU, mstly frsh blk opa		chrt wht off wht lt gry lt smokey, shrp frsh opa, semi trans, transp, blk ang pcs, with weath spongy sli trip text, tan brn mott stain, filmy sfo, gas, oil droplets, odor?		
95' eg @ 6 az		4696' 88.3 deg @ 180.8 az	4697' 87.8 deg @ 181.3 az	4698' 87.4 deg @ 180.9 az	4699' 88.2 deg @ 181.6 az	4700' 89.2 deg @ 182.5 az			
			Scale Change						
brn mott, frsh shrp opa th med trip edge, pp moldic or with stain, tan brn, odor,	chrt lt gry smokey with soft wht gran spongy edge, chrt wht spongy with tan brn blk weath stained edge, tan brn stain, pp moldic por, filmy sfo odor, gas bubs		chrt off wht lt gry lt smokey shrp frsh opa, semi transl, blk ang shrds, with weath spongy text edge, pp moldic por with tan brn mott stain, incr frsh chrt		chrt off wht lt gry lt smokey shrp frsh opa semi transl, blk ang pcs, with weath sli trip spongy text edge, tan brn mott stain, floaters, filmy sfo, tr gas dull UV		chrt lt gry lt smokey of ang pcs, with semi we text, pp moldic por, tan gas bubs, floaters, 70%		
			4740						



10 5820 5840 5860 5880 5900 5920 5940 5960

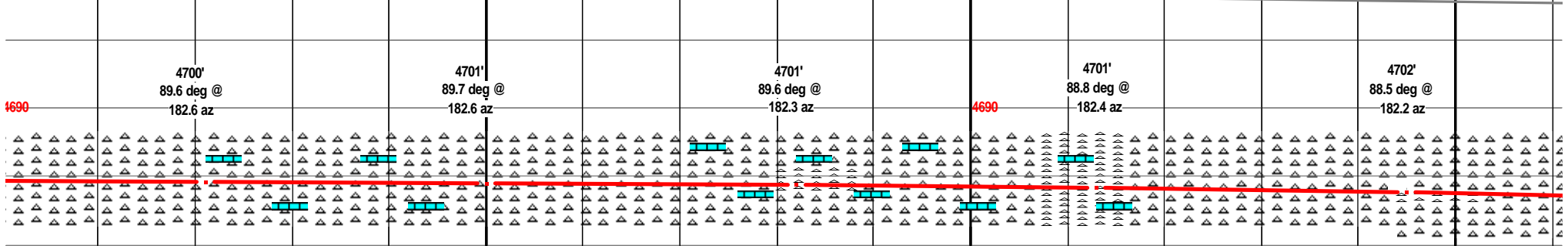
1640 TVD

chrt off wht lt gry smokey color, shrp frsh opa, semi transl, blk ang pcs, with sli weath spongy sli trip edge, tan brn stain, blk sfo, sli odor, tr gas bubs, dull UV, mucho fresh chrt

chrt wht off wht lt gry, lt smokey shrp frsh opa, semi transl, foss frags, with weath gran soft spongy sli trip text edge, pp moldic por, tan brn stain, sli odor, dull UV

chrt lt gry smokey shrp frsh opa, blk ang pcs with gran sli trip spongy edge text, tan brn stain, pp moldic por, brn sfo, sli odor, lst wht lt green f xln chrty with stain, glau

chrt lt gry smokey frsh shrp blkly with weath wht spongy sli trip text edges, pp moldic por, tan brn stained color, tan brn stain, filmy SFO, RBSFO, sli odor, gas bubs, tr lst wht f xln green tint chrty, chrt inclu, glau



4690

ff wht, shrp frsh opa, blkly ath trip text edge, spongy n brn color stain, filmy sfo, % frsh

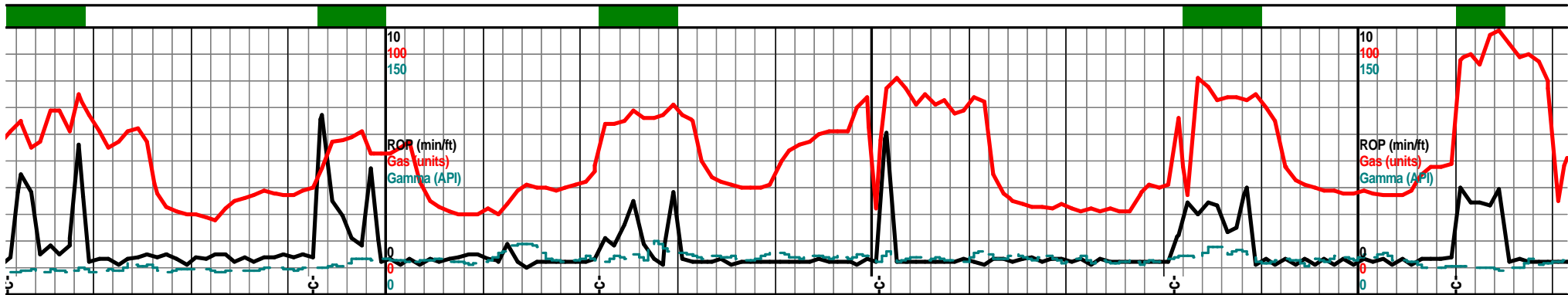
chrt off wht lt gry lt smokey, shrp frsh, opa semi transl, foss frags, with weath spongy/soft sli trip text edge, pp moldic por, tan brn mott stain, floating droplets, filmy sfo, sli odor, gas bubs, dull UV

chrt wht off wht lt gry smokey shrp frsh opa, semi transl, blkly ang pcs, with tr weath gran soft semi spongy edge text, tan brn mott stain, filmy sfo, sli odor, dull UV, much frsh chrty, lst wht off wht lt green f xln gran soft, chrty, gry chrty inclu, glau, stain

chrt gry lt gry smokey shrp frsh blkly ang opa, sub transl, with incr gran weath sli trip edge texture, spongy text in prt, tan brn stain, pp moldic por, incr stain and sho from 5900' spl

chrt off wht gry, tr smok weath gran spongy sli t por, tan brn stain, blk st bubs odor dull UV

4740



0 5980 6000 6020 6040 6060 6080 6100 6120

4640 TVD

4640 TVD

chrt wht off wht gry lt smokey, shrp frsh opa
semi transl, with weath edge, tan brn stain,
spongy sli trip weath text, pp moldic por, tan brn
stain blk SFO, filmy SFO, sli odor

chrt wht off wht lt gry lt smokey shrp frsh opa,
semi transl, with weath spongy sli trip edged text,
pp moldic por, tan brn mott stain,

chrt lt gry off wht lt smokey in color, shrp frsh
opa, blk ang pcs, with tan brn weath sli trip
spongy edge text, pp moldic por, tan brn stain,
blk stain, sli odor, dull UV

chrt lt gry lt smokey, shrp frsh opa with weath sli
trip text edges, tan brn mott, tan brn stain, gd pp
moldic vug por, tr blk stain, filmy sfo, blk sfo,
odor, tr gas bubs, floaters

4703'
88.8 deg @
182.0 az

4703'
89.3 deg @
181.4 az

4703'
90.3 deg @
181.2 az

4703'
90.5 deg @
180.8 az

4703'
90.5 deg @
181.0 az

4690

47
90.2 d
180.



ey shrp frsh opa with
rip text edges, pp moldic
tain/SFO, filmy SFO, gas

chrt lt gry lt smokey shrp frsh opa semi transl,
with weath gran spongy sli trip weath edge, pp
moldic por, tan brn blk stain, sli odor, gas bubs,
filmy sfo, floaters, dull UV

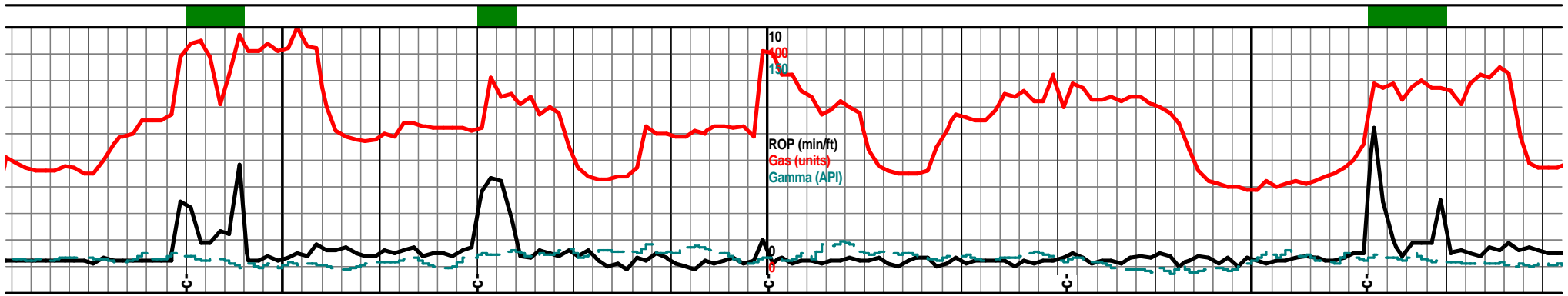
chrt lt gry off wht lt smokey shrp frsh opa semi
transl with tan brn weath sli trip text edge, tan brn
stain, vssfo, "floaters", dull UV, odor

chrt off wht lt gry lt smokey in color, shrp frsh
trnsnl opa, blk ang pcs with tan brn weath sli
trip edge text, pp moldic por, tan brn tr blk stain,
filmy sfo, "floaters", dull UV, sli odor

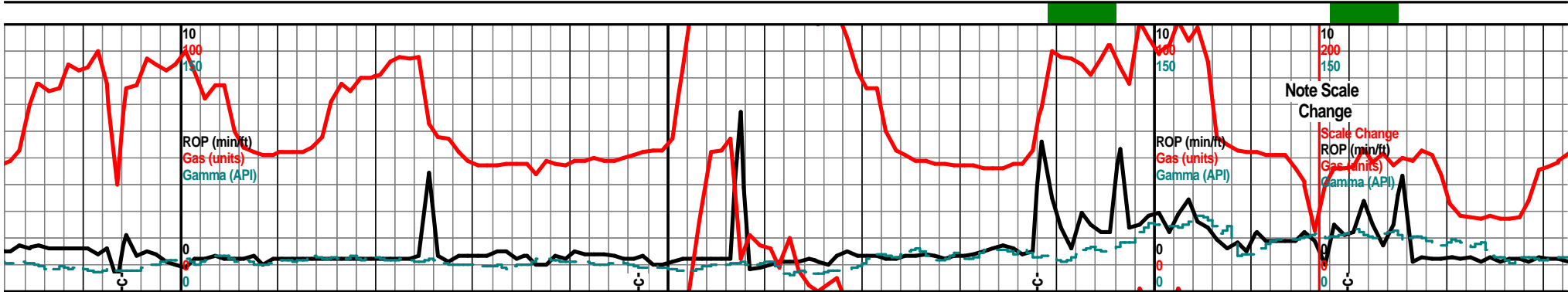
chrt lt gry lt smoke gry
semi transl, with fair w
vug moldic por, tan br
sfo, odor, dull UV

4740

4740



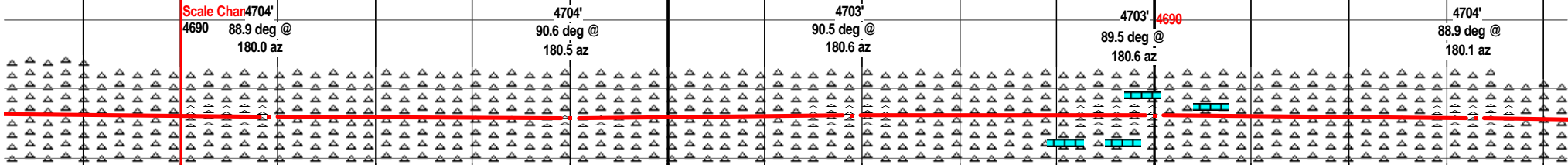
6140	6160	6180	6200	6220	6240	6260	6280
7am 6137' August 23, 2012			4640 TVD				Mu wt. n
chrt lt gry lt smokey color, shrp frsh opa, sub trans, with weath sli trip text edge, tan brn stained edge, pp moldic por, tr spongy text, sli odor, drk brn/blk sfo, gas bubs dull UV			chrt lt gry smokey, off wht, foss frags, shrp frsh blyk ang shards, with weath sli trip spongy text edges, tan brn stained color, pp vug and moldic por, tan brn/blk stain/ssfo, filmy sfo, floaters tr gas bubs	No sample, Okie sample man asleep once more!		chrt lt gry lt smoke color, shrp frsh opa semi trans, tr foss, blyk ang pcs, with semi weath trip edge text, tan brn color, tan brn stain, pp moldic vug por, tanbrn/blk SFO, sli odor, filmy SFO/wets, dull UV	
'02' leg @ 3 az	4702' 89.8 deg @ 180.0 az	4703' 89.2 deg @ 179.7 az	4690	4703' 90.6 deg @ 179.6 az		4703' 89.8 deg @ 179.8 az	4703' 89.2 deg @ 179.8 az
r in color, shrp frsh opa, eath sli trip text edge, pp n stain, blk stain/sfo, filmy			chrt lt gry lt smokey shrp frsh opa, sub transl, with weath sli trip text edges, pp moldic por, tan brn stain, tan brn blk hvy sfo, tr gas bubs, sli odor, dull UV	chrt lt gry lt smokey tr off wht, tr glau, tr foss frags, shrp frsh opa semi trans with weath sli trip text edges, tan brn mott color, tan brn stained edges. brn/blk stain/ssfo, floaters, gas bubs		chrt lt gry lt smokey, shrp frsh opa, sub transl, with weath sli trip text edges, pp moldic and vug por, tan brn stain, drk brn blk SFO, filmy sfo/spl water, tr gas bubs, dull UV, sli odor	chrt lt gry lt smoke gry st foss, blyk ang pcs with sl spongy edge, pp moldic tan brn stain, blk stain, b
			4740				



6300 6320 6340 6360 6380 6400 6420 6440

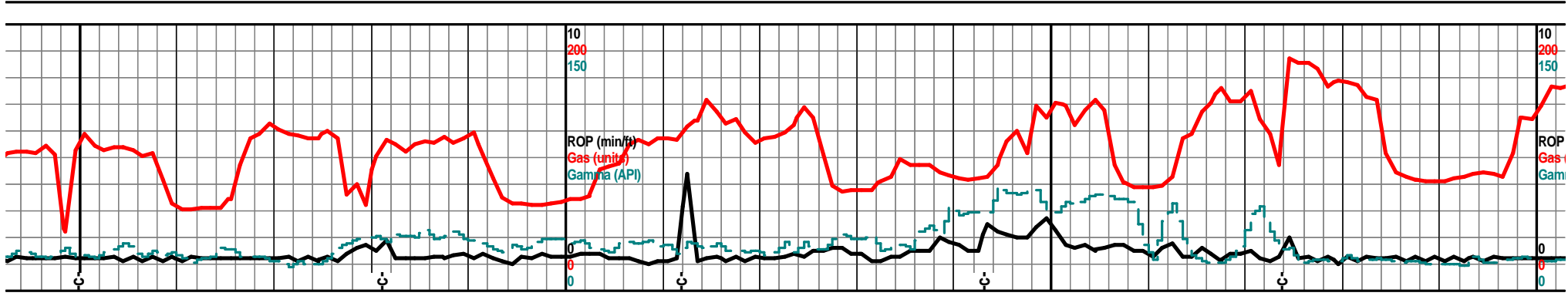
d-Co. 6288' .8.4 vis. 28 W/C chl. 1,500	4640 TVD							4640 TVD	Bit Trip 6417' Friday August 24, 2012		
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chrt lt gry lt smoke gry, shrp frsh opa, sub transl, blk ang pcs, with sli trip text edge, tr spongy edge, pp moldic vug por, tan brn stain, blk stain/sfo sli odor,		chrt lt gry lt smokey shrp frsh opa transl, with weath sli trip edge text, pp moldic, vug por, tan brn stain, tan brn sli sfo, blk stain, odor, dull UV		chrt off wht lt gry lt smokey shrp frsh opa, semi transl, mstly frsh with weath sli trip edge text, pp moldic, vug por, tan brn stain, drk brn blk stain/sfo, sli odor tr gas bubs		chrt lt gry off wth smokey shrp frsh opa ang blk semi transl, weath sli weath sli trip text edge, pp moldic por, stain, sli odor, dull UV					
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1rp frsh opa, transl, li trip weath text edge, tr por, tan brn mott color, lk sfo, sli odor	chrt lt gry lt smoke color, shrp frsh foss opa, transl, with weath spongy sli trip text edge, pp moldic por, tan brn tr blk stain, blk sfo odor? dull UV	chrt off wht lt gry smokey shrp frsh opa blk ang shrds, semi transl, with weath sli trip text edge, pp moldic vug por, tan brn stain, sli odor, blk stain/sfo sli odor	chrt off wht lt gry lt smoke color, shrp frsh opa transl., with incr weath sli trip text, tan brn mott stain color, tan brn stain, grsy blk sfo, sli odor	chrt lt gry smokey shrp frs weath sli trip text edges, p stain, dull UV
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4740 4740

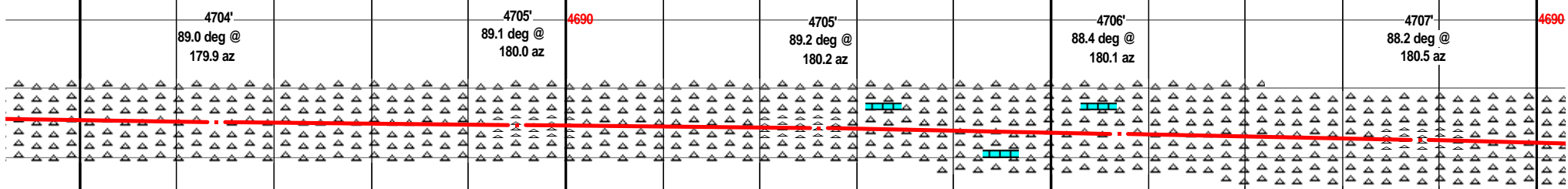


6460 6480 6500 6520 6540 6560 6580 6600

			4640 TVD							4640
										Mud wt. i wl. N

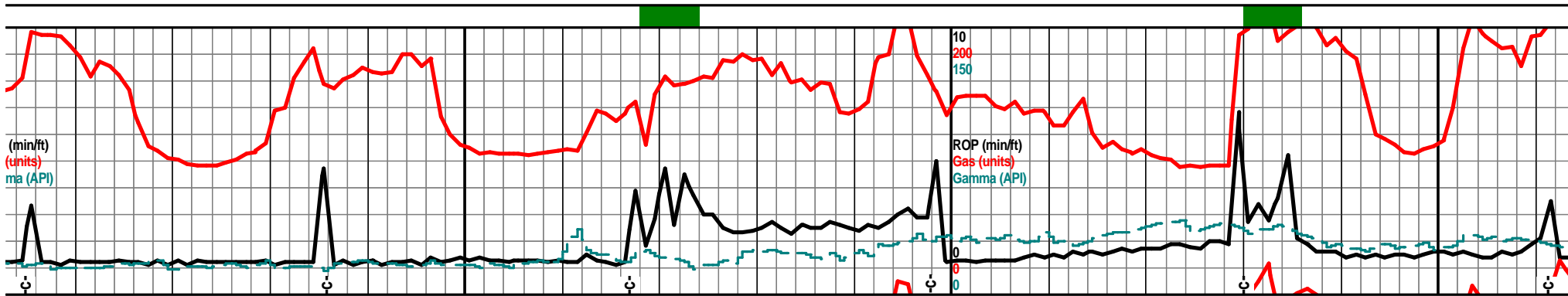
chrt lt gry lt smokey, shrp frsh opa semi transl, blk ang hrd shards, with sli trip text weath edges, tan brn stain, tan brn mott color, dull UV	chrt off with lt gry/smokey, shrp frsh opa with tan brn trip weath text edges, pp moldic, vug por, tan brn stain, sli odor, filmy sfo, dull UV, tr gas floaters	chrt off wht lt gry smokey shrp frsh opa, semi transl, blk ang hrd shards, with sli weath trip text edges, tan brn stain, pp moldic por, lst/dolo wht lt green tint, f xln soft gran glau	chrt lt gry smokey, off wht, tr off wht tan lt yllw frsh shrp blk ang opa chrt, sub transl, with gry tan brn mott weath sli trip text edge, tan brn stain,
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Okie sample man doubling up samples,,



sh opa semi transl, with pp moldic por, tan brn	chrt wht off wht clr, lt gry/smokey, shrp frsh and tan brn mott sub trip text edge, sli trip weath, pp moldic por, tan brn stain, filmy sfo odor	chrt lt gry off wht, smokey shrp frsh opa blk, chrt tan gry brn mott, weath trip text edges, pp moldic vug por, tan brn stain, drk blk stain, drk brn sfo, sli odor, dull UV	chrt lt gry off with tr lt smoke color, shrp frsh blk ang shards, with tr weath sli trip text, msly frsh shrp blk, tr lst wht lt green tint, soft chlky, glau, tr lt green clay clasts	chrt wht lt gry smoke colc transl, blk ang shrds, with trip text edge, tan brn stain dull UV
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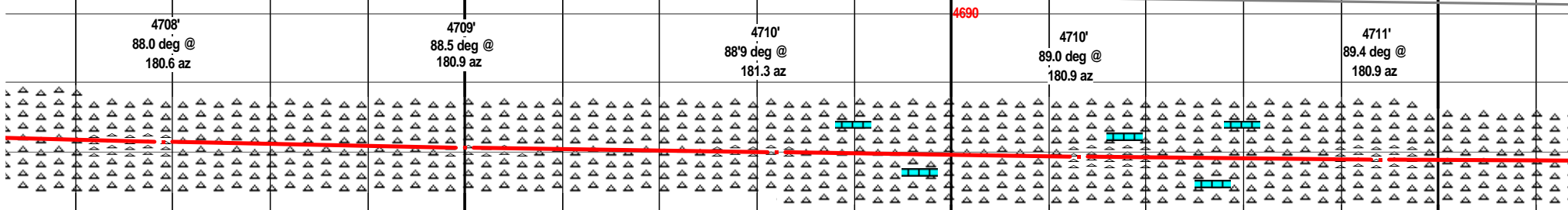
4740 4740



6620 6640 6660 6680 6700 6720 6740 6760

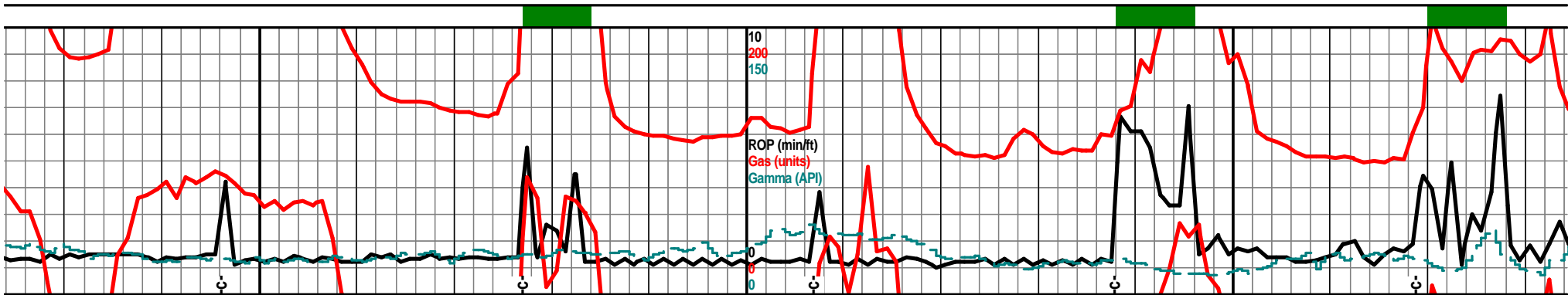
TVD					4640 TVD				
I-Co. 6605'									
8.4 vis. 29									
I/C chl. 1,400									

chrt wht off wht lt gry & smoke color, shrp frsh opa trans, with gry med gry tan brn mott color, weath trip text pp moldic vug por, tan brn blk stain, sli odor, filmy sfo, gas bubs in some	chrt lt gry off wht smokey, shrp frsh opa semi trans with weath trip text edge, tan brn mott trip edges, pp moldic por, vug por, tan brn stain, filmy sfo, sli odor dull UV	chrt off wht lt gry lt smoke color, shrp frsh opa with weath trip text edge, tan brn gry mott color, tan brn stain, gd pp, vug, moldic por, filmy sfo, floaters, dull UV, odor?	no sample	
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shrp frsh opa semi h gry tan brn weath sli n, filmy sfo, floaters,	chrt off wht lt gry smoke color, frsh shrp blk ang shards, opa, semi transl, with weath trip edge text, tan brn gry brn color, tan brn stain, blk stain, dull UV, tr filmy sfo, tr "floaters" tr gas bubs	chrt wht lt gry smokey frsh shrp opa trans, chrt tan gry brn mott, weath trip text por edges, vug/moldic por, tan brn stain, tr blk stain, filmy sfo, ssfo, gas bubs, dull UV	chrt off wht lt gry tr smokey shrp frsh opa blk ang pcs with weath gry tan brn mott trip weath edge text, pp moldic por, stain filmy sfo, dull UV, 1st wht off wht lt green f xln soft chiky chrt glau	chrt tan brn gry mott fair moldic & vug por, tan brn stain, tr gas bubs, dull UV chrt, chrt off wht lt gry sh
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			4740						
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6940

6960

6980

7000

7020

7040

7060

7080

4660 TVD

7072' 7 am Saturday
August 25, 2012

chrt lt gry off wht clr transl, shrp frsh opa, chrt lt tan gry lt brn mott, weath trip text, pp moldic vug por, tan stain filmy sfo tr gas bubs, dull UV

chrt 50-50 mix of off wth lt gry lt smokey, shrp frsh opa semi transl, blk ang shrds, and lt tan gry mott with weath trip text, pp moldic por, tan lt brn stain dull UV, tr filmy RBSFO nodor

chrt off wht lt gry shrp frsh opa transl, chrt tan lt brn mott weath trip text, pp moldic por, tan lt brn stain, filmy sfo, lst wht, lt green tint, f xln soft chrt glau

chrt 50-50 mix of off wth lt gry smokey, shrp frsh opa transl, blk ang shrds, and tan lt brn/gry mott, weath trip text pp vug moldic por, tan lt brn stain, filmy sfo, odor?

4716'
88.2 deg @
179.4 az

4717'
88.2 deg @
179.6 az

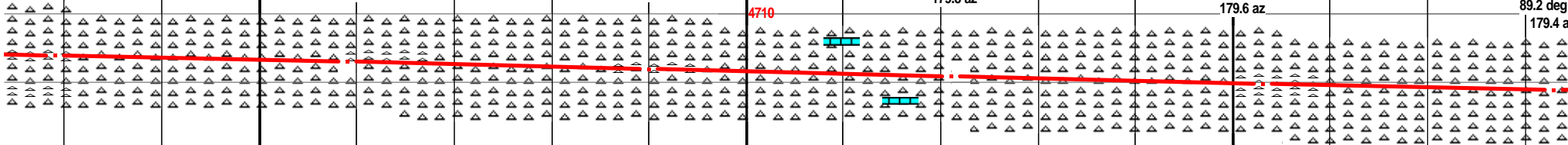
4718'
88.1 deg @
179.7 az

4719'
87.8 deg @
179.8 az

4720'
88.2 deg @
179.6 az

4720'
89.2 deg @
179.4 a

4710



isl, shrp frsh blk ang gd weath trip text, pp i, filmy sfo, tr gas

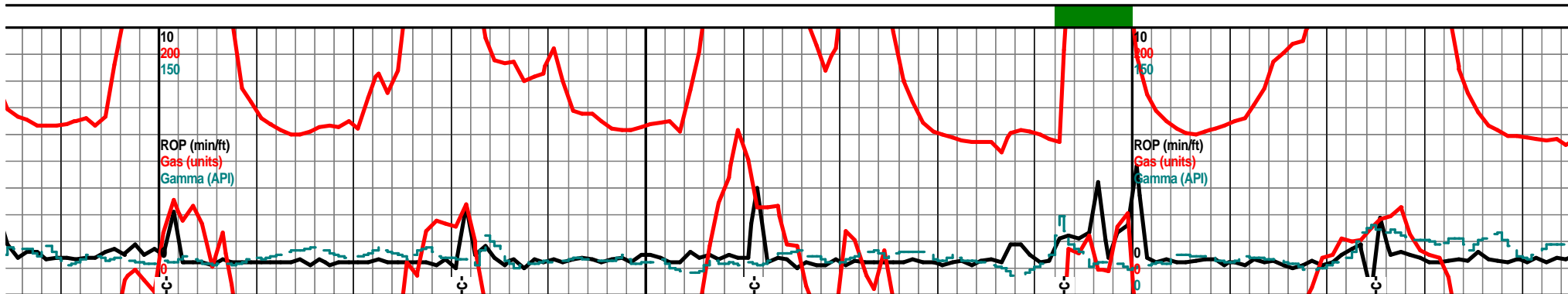
chrt off wth lt gry clr transl, opa shrp blk ang shrds, chrt tan lt brn gry mott, weath gran trip text, pp moldic vug por, tan lt brn stain filmy sfo, tr gas bubs, sli odor, floaters

chrt lt gry off wht lt smoke, shrp frsh foss opa semi transl, chrt tan lt brn mott, weath trip text, pp moldic vug por, tan lt brn stain, filmy sfo, oil drop floaters, tr gas dull UV

chrt off wth lt gry lt smokey shrp frsh foss opa, semi transl, chrt lt tan brn gry mott, weath trip text, pp moldic vug por, tan lt brn stain, blk stain, drk brn/blk SFO, filmy sfo, floaters, tr gas bubs nodor

chrt lt gry off wht shrp frsh weath trip text, tan lt brn gr blk stain, blk SFO, floating sli odor, dull UV

4760



7100 7120 7140 7160 7180 7200 7240

4660 TVD Mud-Co. 7196' wt. 8.4 vis. 27 w/ N/C chl. 1,400 4660 TVD

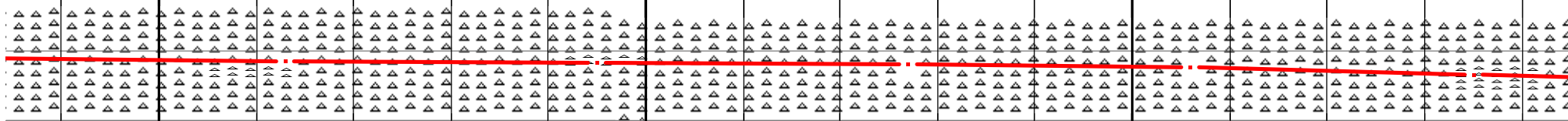
chrt as before, off wht lt gry lt smoke, shrp frsh opač transl shards, with chrt tan lt brn/gry mott, weath trip text, pp moldic vug por, tan lt brn stain, blk stain/SFO, sli odor

chrt off wht lt gry smoke color frsh shrp foss blký ang shards, semi transl, chrt tan gry brn mott weath trip text, pp moldic, vug por, tan brn stain tr blk stain/SFO, sli odor

chrt off wht lt gry shrp frsh opač semi transl with chrt tan brn lt gry mott weath trip text edge, tan brn stain, pp moldic por vug por, filmy SFO odor?

chrt lt gry off wht lt smokey shrp frsh foss, opač semi transl, with weath sli trip text edges, tan brn mott stain, pp moldic vug por, filmy sfo, odor? lst wht off wht lt green fxln chly gran soft glau

@ 4710 4721' 89.1 deg @ 179.3 az 4721' 89.8 deg @ 179.0 az 4721' 89.5 deg @ 179.4 az 4722' 88.4 deg @ 4710-179.1 az 4723' 87.7 deg @ 179.6 az



opač semi transl, with y mott, tan lt brn stain, droplets, tr gas bubs,

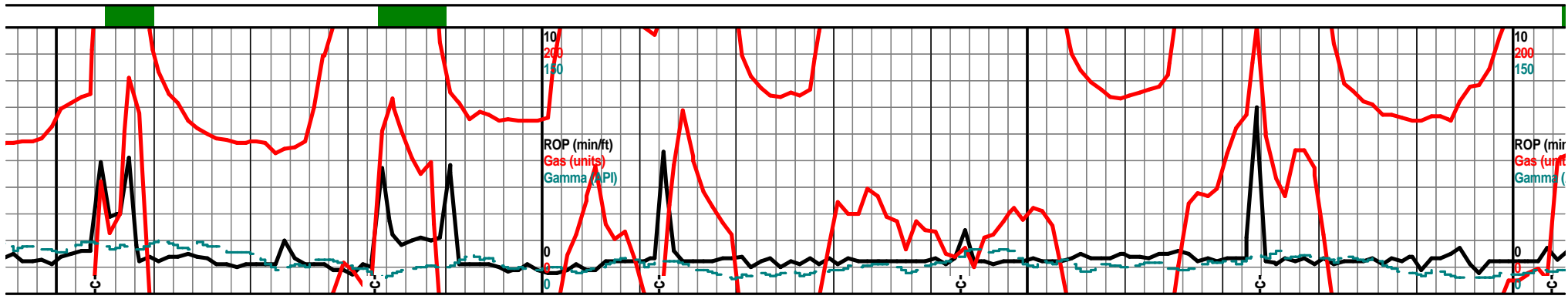
chrt off wht lt gry smokey shrp frsh opač sub transl, chrt tan lt gry brn mott, weath trip text, pp moldic por tan brn stain sli odor dull UV

chrt lt gry smokey off with clr shrp frsh opač semi opač, shrp blký ang shards, with tan brn weath sli trip text, tan brn stain, blk stain SFO, tr gas bus, sli odor.

chrt off wht lt gry clr transl blký ang shrp foss with sli weath trip edge trxt, tan lt brn mott stain, drk brn/blk stain sfo, odor? dull UV

chrt wht clr lt gry shards, opač chrt tan gry lt brn weath sli trip por, tan brn stain, filmy sfo, du lt green f xln chly gran glau cl

4760 4760



7260 7280 7300 7320 7340 7360 7380 7400

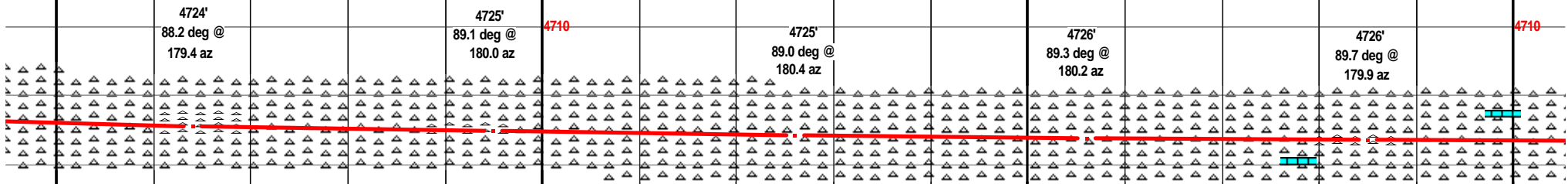
			4660 TVD						4660 TVD

chrt wht off wth lt gry/smokey, shrp frsh tr foss, opa semi transl, chrt lt gry tan lt brn mott color, sli trip text edges, pp moldic por tan lt brn stain dull UV

chrt wth off wht lt gry/smokey shrp frsh opa transl, chrt tan gry lt brn weath sli trip text, pp moldic vug por, tan lt brn stain, flimy sfo, dull UV

chrt wht off wht calc, glau, chrt gry/smokey shrp frh opa transl, chrt tan lt gry/brn with weath trip text edges/sides, tan brn stain, drk gry/blk sfo fair odor, gd vis sho!

chrt wht off wht, lt gry/smokey color, shrp frsh blk ang shards, pcs, opa, transl, with chrt lt brn tan with weath gran sli trip text edge, pp moldic por stain flimy sfo dull UV



semi transl, foss, edges, pp moldic all UV, odor, lst wht hrty

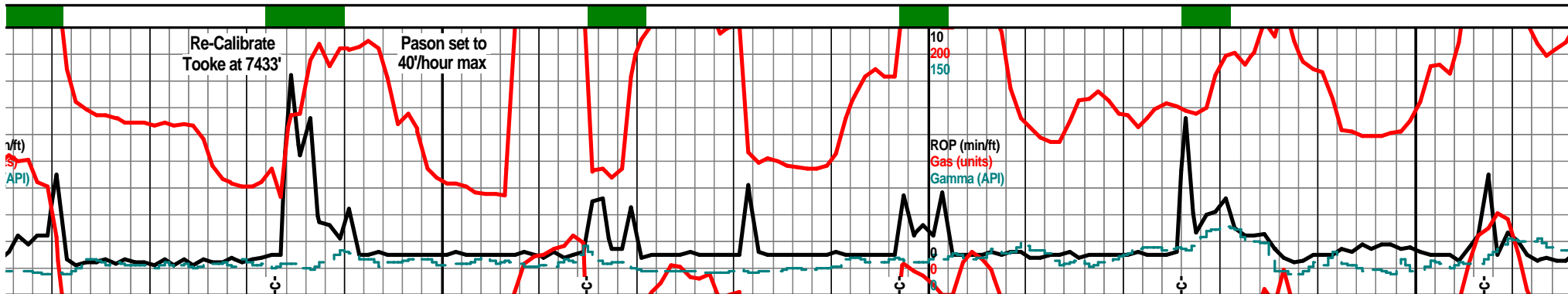
chrt wht shrp frsh opa, glau, chrt lt gry/smokey shrp frsh semi opa semi transl, blk ang shrp shards, with tan brn mott color, tan lt brn stain, tr blk hvy stain, tr flimy sfo dull UV

chrt lt gry off wht, smokey shrp frsh opa transl, chrt tan gry lt brn weath trip edge text, tan lt brn stain pp moldic vug por, sli odor, flimy sfo,

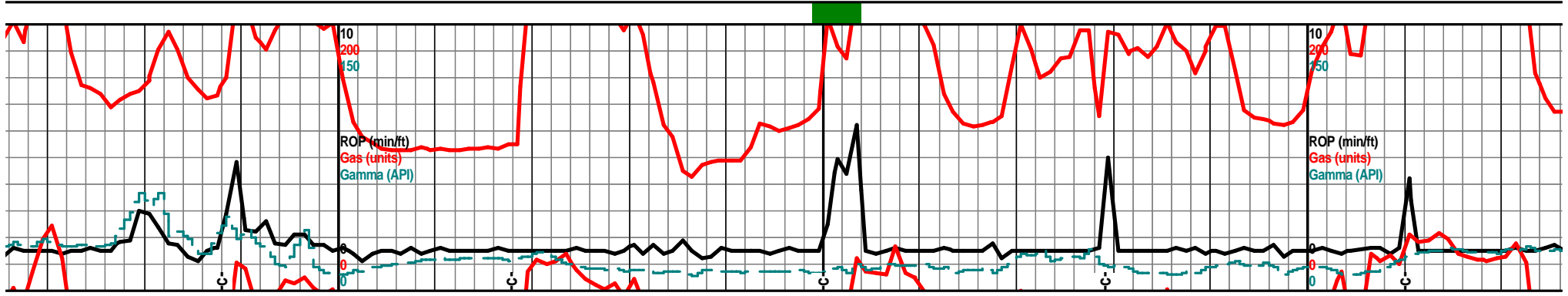
chrt lt gry off wht smokey shrp frsh opa super transl, with weath sli trip edge/rim/sides, tan lt brn stain, pp moldic por, dull UV

chrt wht off wht, lt gry/smokey trans with gran weath tan lt brn rocks, tan lt brn stain, flimy :

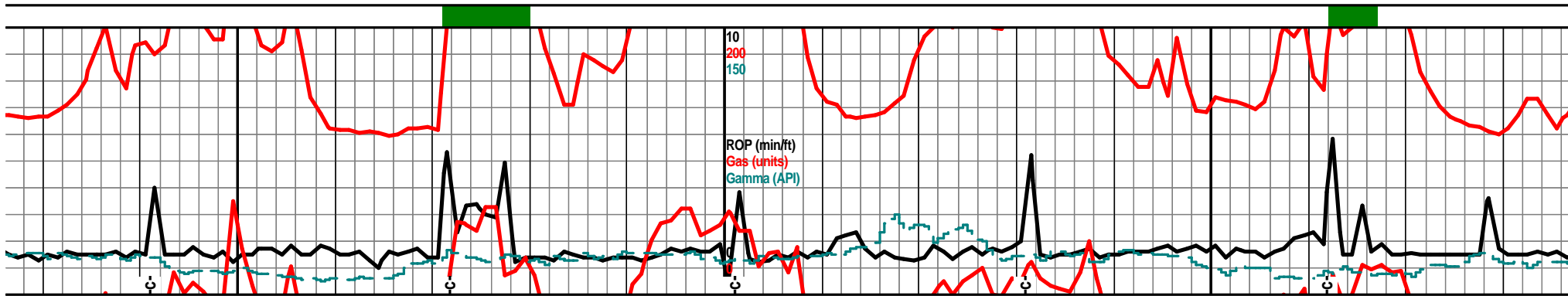
4760 4760



7420	7440	7460	7480	7500	7520	7540	7560
<p>Bit Trip 7433' Sunday August 26, 2012</p>				4680 TVD			
<p>chrt wth off wht, lt gry smokey shrp frsh opa, semi transl, tr foss, chrt tan lt brn/gry mott, weath/trip text edges, pp moldic por, vug por, tan lt brn stain, filmy sfo, dull UV.</p>		<p>chrt lt gry off wht, shrp frsh opa semi transl, chrt gry lt gry/smokey shrp frsh with weath trip text, pp moldic vug por, tan lt brn, blk stain, filmy sfo, odor, dull UV,</p>		<p>chrt off wht lt gry/smokey shrp frsh opa semi transl foss, blk ang hrd shards, chrt lt gry smokey with gran weath sli trip edges/sides, tan lt brn mott color, tan lt brn stain, blk stain, floating oil drops, filmy sfo, fair odor, dull UV</p>		<p>chrt wht off wht lt gry mostly frsh, spl is 80% frsh, shrp blk ang opa semi transl, cloudy, tr with sli weath edge, brn blk stain, hvy grsy sfo, floaters, nodor, spotted UV, dec sho, more frsh chrt</p>	
4726' 89.4 deg @ 179.5 az	4727' 88.4 deg @ 178.9 az	4728' 88.0 deg @ 179.1 az	4729' 88.6 deg @ 179.5 az	4729' 88.7 deg @ 179.6 az	4730'		
<p>le, shrp frsh opa, brn mott trip text sfo, pp moldic por</p>		<p>chrt wht off wht lt gry/smokey, shrp frsh opa transl with sli trip weath edge text, tan lt brn stain, tan blk hvy sfo, fair odor, tr filmy sfo, dull UV</p>		<p>chrt off wht lt gry/dmokey color, frsh shrp blk ang hrd pcs, with weath trip text, tan lt brn mott color, tan lt brn stain, tr hvy blk stain filmy sfo, odor, dull UV</p>		<p>chrt off wht lt gry/smokey color, shrp frsh opa, hrd blk shrd, chrt off wht lt gry with gran weath sli trip text, tan lt brn mott color, tan lt brn stain, floaters, filmy sfo, odor, dull UV</p>	
							<p>chrt (70% frsh) wht off wht frsh : blk ang hrd pcs with tr weath s tan lt brn stain, tan lt brn color, nodor</p>
				4780			



7580		7600		7620		7640		7660		7680		7700		7720			
		4680 TVD								7 am 7685' Monday August 27, 2012		4680 TVD					
chrt wht off wht lt gry/smokey, shrp frsh opa semi transl, cloudy, blk ang shards, with weath trip text, tan lt brn mott color edges, tan lt brn stain, filmy sfo, tr hvy blk stain, floaters, gas? dull UV		chrt wht off wht lt gry/smokey in prt, shrp frsh opaq cloudy semi opa, with tan lt brn weath trip text, gd vis pp moldic & vug por, tan lt brn stain tr blk stain, filmy/RBSFO, floaters, dull UV, odor		chrt wht off wht lt gry smokey in prt, frsh shrp blk opa, semi transl, with weath trip text edge, tan lt brn-brn stain, pp moldic vug por, blk stain, filmy rbsfo, fair odor, dull UV		chrt wht off wht lt gry/smokey, shrp frsh opa semi transl, with tan lt brn weath trip text edges, tan lt brn stain, tr blk stain, odor, filmy rbsfo, tr gas bubs, dull UV,											
4730' 89.0 deg @ 179.5 az		4730' 89.1 deg @ 179.8 az		4731' 88.7 deg @ 179.7 az		4732' 88.2 deg @ 179.4 az		4733' 88.5 deg @ 179.5 az		4733' 88.5 deg @ 179.5 az		4733' 89.3 deg @ 179.2 az					
shrp opa cloudy li trip text edges, hvy grsy stain,		chrt off wht wht lt gry shrp frsh opa cloudy, semi trans, and chrt tan lt brn mott, tan lt brn stain, gd vis pp moldic, vug por, fair odor, floating oil droplets, filmy sfo, dull UV		chrt wht off wht lt gry smokey color, shrp frsh opaq semi transl, hrd blk ang foss, with tan lt brn weath trip edge, tan lt brn stain, vis pp moldic vug por, fair odor, filmy/rbsfo, blk stain, dull UV		chrt wht off wht lt gry tr smokey, shrp frsh opa, semi transl, with tan lt brn weath edge text, tan lt brn tr blk stain, odor, tan/blk stain sfo floaters, blk stain filmy sfo, dull UV		chrt wht off wht lt gry smokey, shrp frsh opa semi transl, with tan lt brn weath trip text edges, tan lt brn stain, tr blk stain, odor, filmy rbsfo, tr gas bubs, dull UV,		chrt wht off wht lt gry smokey, shrp frsh opa semi transl, with tan lt brn weath trip text edges, tan lt brn stain, tr blk stain, odor, filmy rbsfo, tr gas bubs, dull UV,		chrt wht off wht lt gry smokey, shrp frsh opa semi transl, with tan lt brn weath trip text edges, tan lt brn stain, tr blk stain, odor, filmy rbsfo, tr gas bubs, dull UV,		chrt wht off wht lt gry smoke transl, with tan lt brn weath t brn stain, blk sfo, filmy sfo, c and vug por, lst wht lt green glau, chrt			
		4780										4780					



7740 7760 7780 7800 7820 7840 7860 7880

Mud-Co. 7772'
wt. 8.5 vis. 28
wl. N/C chl. 1,500

4680 TVD

chrt as before, incr tan brn mott weath trip text, tan brn stain, blk stain, fair odor, filmy/rbso, tr gas bubs, dull UV, better and increase stain, odor vis show, pp moldic vug por

chrt wht off wht lt gry shrp frsh opa semi transl, mstly gry tan brn mott weath trip text, pp moldic vug por, tan lt brn blk stain, filmy/rbso, dull UV, odor

chrt off wht lt gry shrp frsh opa semi transl, with tan gry brn mott weath sli trip text, pp moldic por, vug por, tan lt brn stain, tr blk grsy stain, filmy rbsfo, floaters, dull UV

chrt wht off with tr lt gry, mstly frsh (85%) of spl, shrp frsh opa semi transl tr foss, blkgy ang hrd pcs, some weath sli trip edge with tan brn blk stain, blk grsy stain nodor, oil floaters

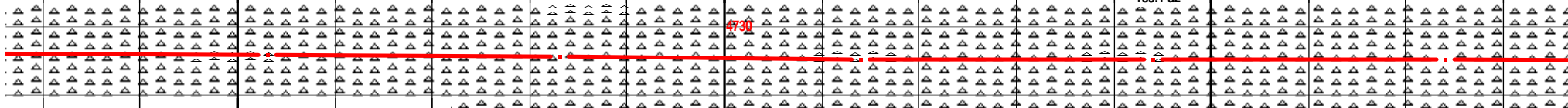
4734'
89.9 deg @
179.5 az

4734'
89.1 deg @
179.4 az

4734'
89.5 deg @
179.5 az

4734'
89.8 deg @
189.1 az

4734'
90.3 deg @
179.9 az



y shrp frsh opa semi rip text edges, tan lt dull UV, vis pp moldic tint f xln soft chlky

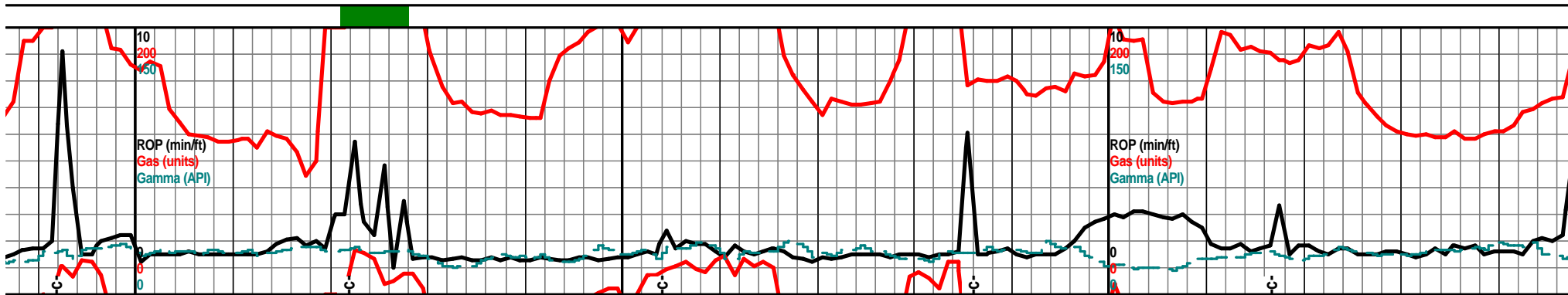
chrt wht off wht, tr lt gry/smokey shrp frsh, tr chlky gran, with weath sli trip text, tan lt brn stain, pp moldic por tan brn stain, blk grsy stain, odor?

chrt off wht, lt gry smokey, shrp frsh opa transl, mstly gry tan lt brn mott weath trip text, pp moldic vug por, tan lt brn stain, tr blk grsy stain, odor, filmy sfo, floating oil drops, dull UV

chrt off wht lt gry/smokey color, shrp frsh opa semi transl, with chrt tan lt brn/gry mott weath trip text por, pp moldic vug por, tan brn tr blk hvy stain, filmy sfo, sli odor dull UV, 1st wht lt green tint, f xln gran chlky, soft, glau chrt in prt, dolo in prt

chrt mstly frsh (85%) of sample, w shrp frsh opa semi transl with tr sli trip text edges, tan brn stain g floaters in water, nodor, dull UV

4780



7900 7920 7940 7960 7980 8000 8020 8040

4680 TVD

4680 TVD

chrt off wht lt gry shrp frsh opa, semi transl, 85% frsh chrt with tr weath sli trip text edge, tan lt brn mott color edge, tan lt brn stain, pp moldic por, tr grsy stain floaters, nodor dull corner UV

chrt 80% frsh, off wth lt gry/smokey shrp frsh opa, transl, blk ang shards, with some weath trip edge text pp moldic por vug por, tan lt brn stain, tr blk grsy stain, nodor, filmy rbsfo, dull corner UV

spls vry fine, chrt wht off wht lt gry/smokey shrp frsh vit, transl, sli opa blk ang shrp shards, with tr weath sli trip text edge, drk brn/blk hvy stain, pp moldic por, vug por, nodor

chrt off wht lt gry, lt gry/smokey, shrp frsh opa, transl, blk ang shards, with weath trip text edges, tan lt brn/gry mott color, tan brn stain, tr hvy grsy blk stain, filmy sfo, dull UV, nodor, pp moldic por

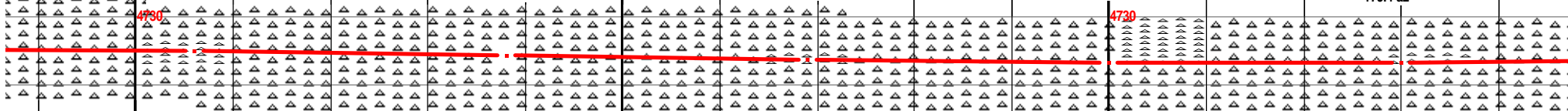
4734'
89.1 deg @
179.8 az

4735'
88.8 deg @
179.3 az

4736'
89.0 deg @
179.3 az

4736'
89.4 deg @
178.9 az

4736'
89.9 deg @
179.4 az



chrt off wht lt gry weath tan brn rsy sfo, oil

chrt wht off wht lt gry/smokey shrp frsh opa 80% frsh, semi transl, with tr weath sli trip text edges, tan lt brn mott, pp moldic small vug por, tan lt brn stain, tr blk stain, nodor, filmy sfo, floaters on spl water

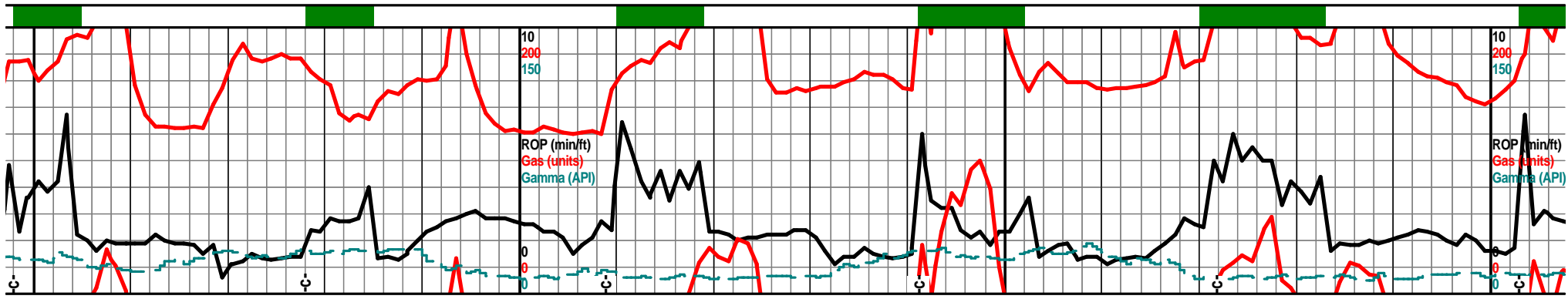
chrt wht off wht lt gry mstly frsh, transl, sli opa shrp frsh blk ang shards, with tr weath trip text, drk tan blk hvy grsy stain, nodor,

chrt off wht lt gry shrp frsh opa transl, blk ang sharp shards, 60% frsh, with weath sli trip edge, pp moldic, vug por, tan lt brn gry mott color, tan lt brn stain tr blk grsy stain, tr filmy rbsfo, nodor

chrt wht lt gry shrp frsh blk ang transl, with weath trip text edges, brn.blk stain, hvy blk stain, pp mc much coarser?

4780

4780



8060

8080

8100

8120

8140

8160

8180

8200

4680 TVD

7 am 8200' TVD
Tuesday August 28, 201

"Mt. Mark Sanders"
Mr. 91-86

chrt off wht tan, lt gry shrp frsh blkly ang hrd pcs, opa q transl, with tr weath trip text edges, tan drk brn tr blk grsy hvy stain, pp moldic por sli odor, lst wht lt green tint, f xln gran soft chlky chrty glau

chrt wht off wht lt tan shrp frsh opa q transl blkly ang shards, tr weath edge, tr weath trip text, tan brn stain, pp moldic por, lst wht crm f xln chlky chrty, chrt inclu off wht lt gry frsh tr glau

chrt off wht lt gry/smoke shrp frsh opa q semi transl, blkly ang shards, with sli weath trip text edges, tan brn blk stain, tr blk grsy stain, pp moldic por, lst as before

chrt off wht lt tan lt gry some smoke color, shrp frsh opa q transl, blkly ang pcs, with tr weath text edges, pp moldic por drk brn blk stain, nodor, some floating oi droplets.

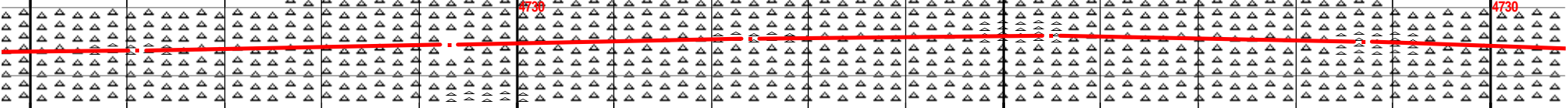
4736'
91.8 deg @
178.8 az

4735'
91.8 deg @
178.8 az

4734'
91.2 deg @
178.1 az

4734'
90.6 deg @
178.6 az

4734'
86.2 deg @
178.8 az



pcs, opa q, sub tan drk tan moldic por, spl pcs

chrt off wht lt tan lt gry tint, shrp frsh opa q, transl, blkly ang hrd pcs with some trip weath text edges, pp moldic por, vug por, tan brn mott stain, tr hvy grsy stain, lst wht lt green tint, f xln chlky gran soft chrty glau

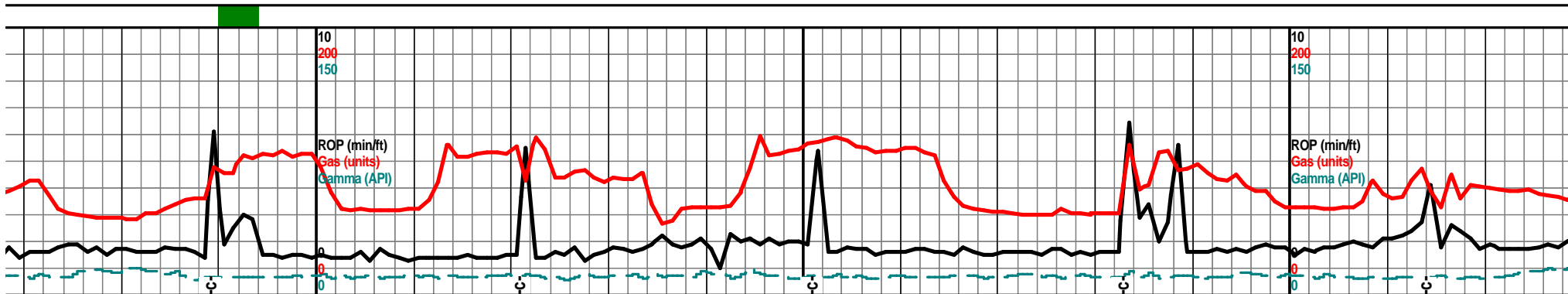
chrt off wht lt tan lt gry shrp frsh opa q transl blkly ang pcs tr weath trip text edges, tan brn mott, tan brn tr blk hvy stain, blk sfo, lst wht off wht f xln flky chlky chrty, chrt inclu, tr glau

chrt off wht, lt tan lt gry shrp frsh opa q transl, blkly ang shrp pcs, 90% frsh, with tr weath edge text, pp moldic por, drk brn/blk stain, gas bubs, nodor

chrt wht off wht lt tan some smk frsh opa q, transl, blkly ang hrd sh edge text, pp moldic por, drk brn hvy stain, nodor, dull UV, lst wht glau, chrty, chrt inclu

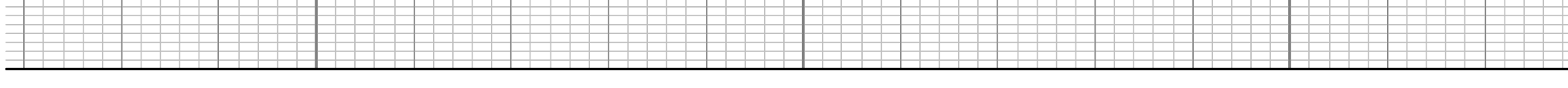
4780

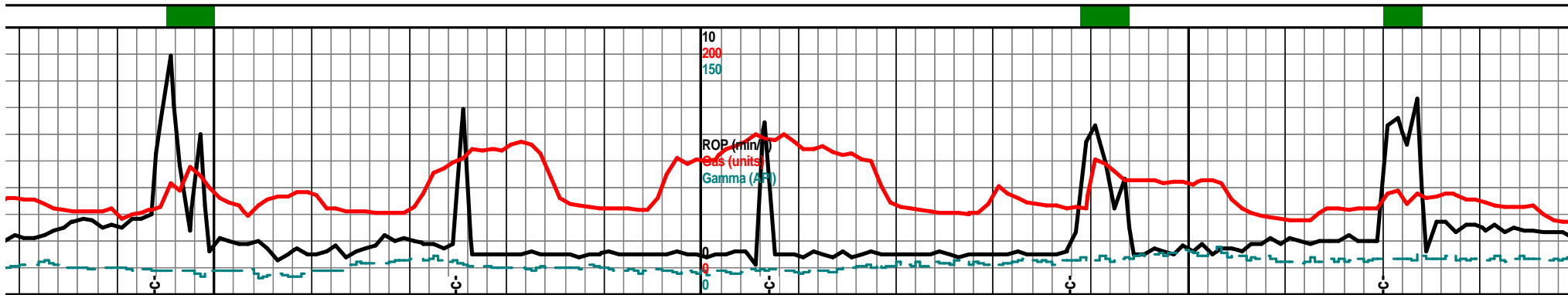
4780



8380 8400 8420 8440 8460 8480 8500 8520

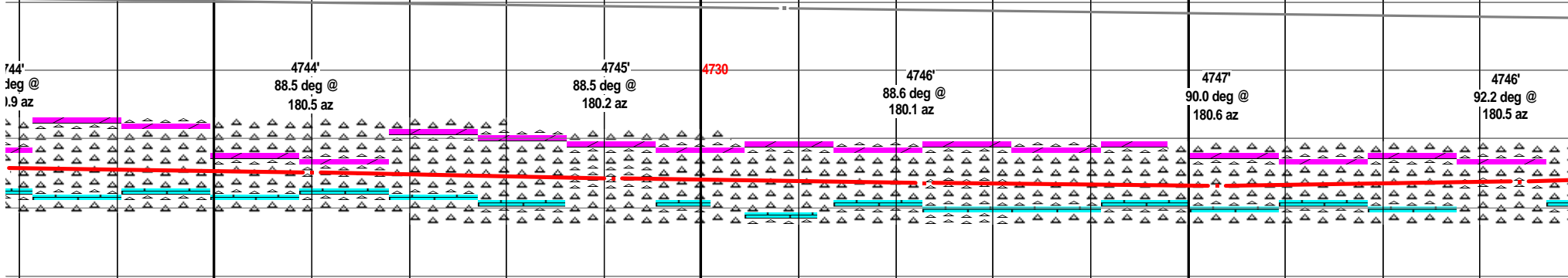
		4680 TVD						4680 TVD	
12		Samples very fine		Mud-Co. 8433' wt. 8.4 vis. 30 wl. N/C chl. 1,400					Sa
		chrt off wht lt blue/gry shrp frsh semi opa, with crm off wht lst/dolo edges, f xln soft gran chiky glau, edge stain grsy blk stain nodor,		chrt lt gry, blue/gry shrp frsh semi opa with tan lt brn stained dolo edges, dolo crm tan off wht f xln gran soft sli chiky with chrt inclu aa				chrtly dolo, tan off wht tr lt gry, f xln gran sli chiky, some glau, inter xln por, tan brn tr blk stain, chrt lt gry sli blue tint, blk ang frsh pcs with dolo edge, nodor nsfo	ch gl of ak
4742' 88.4 deg @ 180.7 az		4743' 89.5 deg @ 180.7 az		4743' 89.5 deg @ 180.9 az				4743' 89.4 deg @ 180.9 az	47
								4730	89.4 c 180
h weath tan rn blk stain, reen tint f xn		chrt off wht lt blue/gry tint shrp frsh semi opa, with tan off wht tr lt green tint lst/dolo edge, gran sli chiky soft tr brn blk hv stain, nodor		chrt lt gry, blue gry tint, frsh semi trans, semi opa, with tan lt brn dolo stained edges, pp por, tr molic por, lst/dolo crm off wht tr green tint, with chrtly edges, chrt inclu, soft sli chiky tr glau				chrtly dolo, tan off wht f xln gran sli chiky sli glau, inter xln pp por, tan lt brn tr drk blk stain, nodor dull UV, chrt inclu lt gry sli blue tinted, stain in dolo around chrt dolo contact	
		4780						4780	





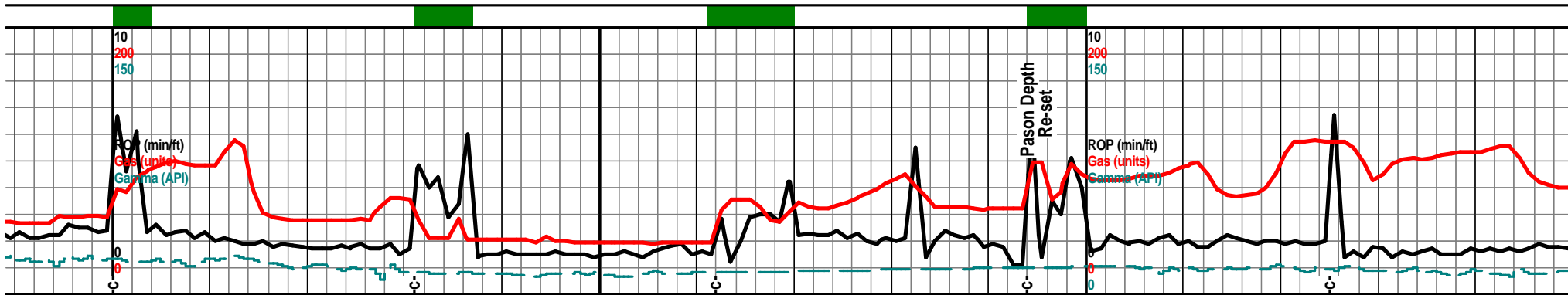
8540 8560 8580 8600 8620 8640 8660 8680

										4680 TVD																																											
mples very fine											Samples very fine																																										
rty dolo, tan crm off wht f xln gran sli sucr, au, chrtly inclu, pp por tan lt brn tr blk stain, chrt f wht wht lt gry lt blue tint, with dolo edge, stain along dolo chert contact											chrt dolo tan off wht crm, f xln gran sub chlky, soft with chrt inclu, off wht lt gry tr lt blue/gry shrp frsh opaqr sub transl, with tr tan lt brn stain along dolo edge, tr blk grsy stain nodor											chrt off wht lt gry tan shrp frsh semi transl, semi opaqr with dolo edge, tan crm off wht with tan brn stain, pp por, inter xln por, dull UV tr gas bubs, nodor											dolo chrt off wht wht shrp frsh semi opaqr, cloudy, semi transp with crm tan dolo edge, f xln gran sub chlky, tr glau, tan lt brn tr blk stain, pp por inter xln por, tr gas bubs, dull UV											ch gr op int									

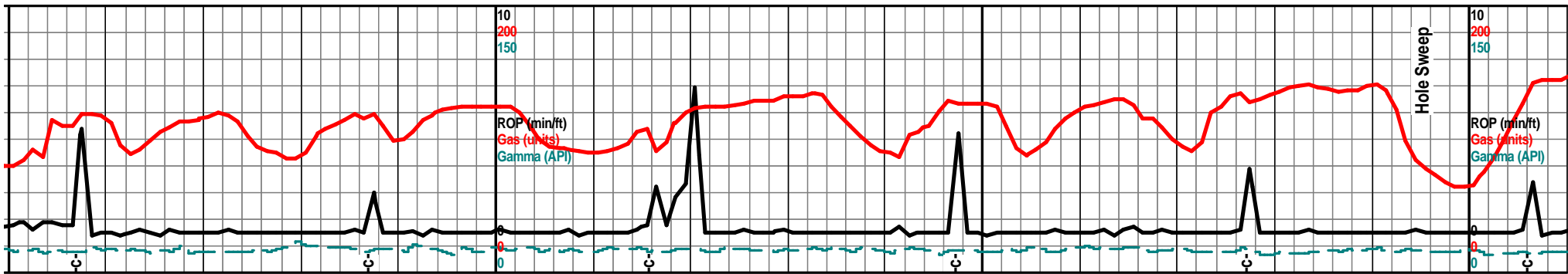


, f xln gran, soft k tan brn stain, hrp frsh blk ang											chrtly dolo, dolo chrt off wht lt tan tr lt gry/blue tint chrt blkly frsh with weath sli sucr dolo edges, pp por, inter xln por, tan brn tr blk grsy stain nodor nsfo											chrt chrtly dolo/dolo chrt off wht lt tan f xln gran sub chlky, sli sucr in prt, chrtly, chrt off wht lt tan lt blue/gry shrp frsh with dolo edge, tan brn stain pp moldic por, incr show, incr gas sli odor? tr weath tan brn sli trip text chrt pp moldic por, tan brn stain grsy sfo dull UV											chrt off wht lt tan tr bluish/gry, shrp frsh opaqr semi transl with dolo edges, tan crm wht f xln gran sub chlky inter xln por, pp por, with tan brn stain, blk grsy stain, nodor, dull UV											dolo chrt, wht off wht shrp frsh opaqr blkly with dolo edge, crm lt tan off wht f xln gran chlky tr glau, tan lt brn stain, tr blk grsy: inter xln por, nodor dull UV									

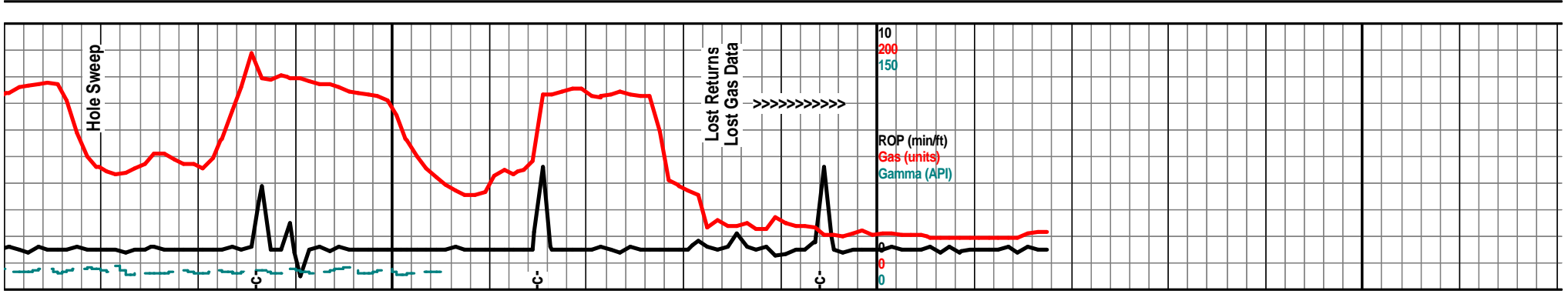
4780



8700	8720	8740	8760	8780	8800	8820	8840
4680 TVD			Lost Returns 8762' 7 am August 30, 2012	Mud-Co. 8780' wt. 8.3 vis. 33 wl. N/C chl. 950	4680 TVD		
irry dolo crm off wht lt tan f xln soft sub chlky, an, with off wht lt tan chrt inclu, shrp blkly sub yaq, lt tan lt brn stain, tr blk hvy grsy stain, pp ter xln por, dull UV		chrtly dolo, crm wht off wht lt tan fixln soft sub chlky gran with off wht lt tan chrt inclu, shrp blkly sub opaqa, lt tan brn stain tr hvy blk stain, pp inter xln por nodor		chrtly dolo wht off wht lt tan tr blue/gry shrp frsh sub opaqa, blkly ang pcs with tan off wht dolo edge, f xln gran sub chlky gritty, pp por inter xln por, drk tan brn stain, some blk hvy stain nodor		chrt wth off wht lt blue/gry shrp sub opaqa with crm off wht lt tan dolo edge, f xln soft sub chlky gran, pp inter xln por, tan brn stain, tr hvy blk stain nodor	dolo chrtly hvy l dolo tan l
4730	4744' 93.0 deg @ 180.4 az	4743' 92.2 deg @ 180.3 az		4742' 91.3 deg @ 180.1 az	4742' 89.7 deg @ 179.9 az	4742' 89.8 deg @ 179.7 az	
ang pcs ran sub stain, pp	dolo chrt, off wht, wht, lt tan shrp blkly ang semi opaqa chrt with tan crm off wht f xln dolo edge, pp inter xln por, tan lt brn stain, tr blk grsy stain, dull UV	chrtly dolo/dolo chrt off wth lt tan tr lt blue gry shrp frsh sub opaqa, with off wht, wht lt tan dolo edge, f xln gran soft chlky chrtly, tan brn some blk stain, tr hvy blk stain nodor		dolo off wht wht lt tan f xln gran soft sub chlky gritty, chrt wht off wht lt blue/gry shrp frsh sub opaqa with dolo edge aa, tan lt brn stain, tr hvy blk stain nodor,		dolo crm lt tan f xln gran sli suc inter xln pp por, stain, vssfo, tar wht off wht tan tr lt blue tint shrp with tan crm f xln sli suc dolo e dolo/chrt contact, odor?	
4780					4780		



8860	8880	8900	8920	8940	8960	8980	9000
		4680 TVD					4680 TVD
crm tan off wht f xln gran sli sucr, sli chlky, y, inter xln pp por, tan lt brn stain, vssfo, tr blk stain, chrt off wht lt tan tr lt blue tint, with edge, tan f xln gran sucr, pp inter xln por, t brn stain along dolo chrt contact odor?		dolo crm off wht tan f xln sli sucr, sub chlky, chrt, pp inter xln por, lt tan brn stain, sli odor, chrt dolo, tan off wht shrp frsh sub opa, dolo edges, stain chrt off wht lt tan shrp frsh opa blk ang hrd pcs	chrt dolo, off wht lt tan, f xln gran sli sucr, sli chlky, inter xln por, chrt inclu, chrt wht off wht tan blue/gry, shrp frsh semi opa, dolo edges tan lt brn stain, stain along dolo/chrt contact odor?			chrt dolo, crm tan off wht f xln gran sli sucr, sli chlky, chrt inclu, tan off wht tr blu/gry shrp frsh with dolo edge, pp inter xln por tan lt brn stain, tr blk gry stain, tr gas bubs, odor?	chr sut sut but
	4742' 89.6 deg @ 179.2 az	4742' 89.6 deg @ 179.1 az	4742' 90.0 deg @ 179.4 az	4742' 89.9 deg @ 179.0 az	4742' 89.8 deg @ 179.4 az	4742' 89.8 deg @ 179.4 az	4730
r, sli chlky, chrt, 1 lt brn stain, chrt p frsh sub opa, edge, stain along	chrt off wht tan blue/gry shrp frsh sub opa, with tan crm off wht dolo edges, f xln gran sli sucr, tr glau, inter xln por, pp por, tan lt brn stain, tr hvly blk stain nodor nsfo nogas	chrt dolo crm tan off wht f xln gran sli sucr, sli chlky, inter xln por pp por tan lt brn stain, vssfo, odor?, with chrt, off wht lt tan shrp blk ang with dolo edges, stain along dolo/chrt contact	chrt chrt dolo, wht tan off wht f xln gran sli chlky sucr in prt, inter xln, pp por, tan lt brn stain, tr hvly blk stain, chrt tan off wht lt blu/gry with dolo edges, with tan lt brn stain, sli odor? gry sfo			chrt dolo off wht lt tan f xln gran sli inter xln por pp por, tan lt brn stain, filmy sfo sli odor, chrt tan off wht lt sub opa with dolo edge with show v contact	
		4780					4780



9020 9040 9060 9080 9100 9120 9140 9160

						4680 TVD				
						Lost Returns 9118'				
4742' 89.9 deg @ 179.5 az 						dolo tan crm lt brn f xln gran soft, suc text, pp interxln moldic por, stain, ssfo, filmy sfo, chrt tan lt gry/brn shrp weath sli trip edge, pp moldic por, tan brn stain, filmy sfo, gas bubs.				
						4742' 90.2 deg @ 179.5 az				
i suc text, gas bubs gry shrp frsh with dolo/chrt			chrt, chrtly dolo, tan off wht crm f xln gran suc text, biky ang pp inter xln por, tan brn stain gas bubs, ssfo, odor, chrt off with tan lt gry shrp frsh with gran suc dolo edge stain, tr hevly stain, filmy sfo						4730	
			dolo chrtly dolo, crm tan off wht f xln gran, suc text, sli chiky pp moldic por, interxln por, fair/gd lt tan brn stain, odor, chrt off wht tan crm shrp frsh sub opa, with dolo edge aa							
						4780				

