

Covey

The Well Watchers

HORIZONTAL LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: TUCKER B #5-H
Location: Section 11 - Township 34 South - Range 11 West
License Number: 15-007-23,787. 01-00 Region: Barber Cty, KS.
Spud Date: 16 October 2011 Drilling Completed: 2 November 2011
Surface Coordinates: 250' FNL & 425' FEL, NE/4
(Approximately NW NE NE NE)
Bottom Hole Horizontal RTD (8,869'MD) reported to be
Coordinates: 4,968.5' FNL & 434.8' FEL of surface coordinates.
Ground Elevation (ft): 1,400' K.B. Elevation (ft): 1,416'
Logged Interval (ft): 3,700'MD To: 8.869'MD Total Depth (ft): 8,869'MD
Formation: Douglas Shale -----> MISS
Type of Drilling Fluid: Low Solids, Non-Dispersed -- Chemical
Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: WOOLSEY OPERATING COMPANY, LLC
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Wichita, Kansas 67202
Geologist:
Dean Patisson

GEOLOGIST

Name: Curtis E. Covey
Company: COVEY - The Well Watchers
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Derby, Kansas 67037
Office: (316) 776-0367 Cell: (316) 217-4679

KB: 1,416'

FORMATION TOPS

GL: 1,400'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Heebner SH	3,654' (-2,237')	No open hole log.
Toronto LS	3,672' (-2,256')	
Douglas Gp	3,694' (-2,278')	
Haskell (Brown)	4,066' MD / TVD 4,047' (-2,631')	
Stark SH	4,471' MD / TVD 4,328' (-2,912')	
Hushpuckney SH	4,549' MD / TVD 4,360' (-2,944')	
B / KC	4,692' MD / TVD 4,412' (-2,996')	
Pawnee LS	4,947' MD / TVD 4,505' (-3,089')	
Cherokee Gp	5,081' MD / TVD 4,555' (-3,139')	
Mississippian	5,169' MD / TVD 4,583' (-3,167')	
Mississippian Chert	5,185' MD / TVD 4,588' (-3,172')	

RTD: 8,869'MD

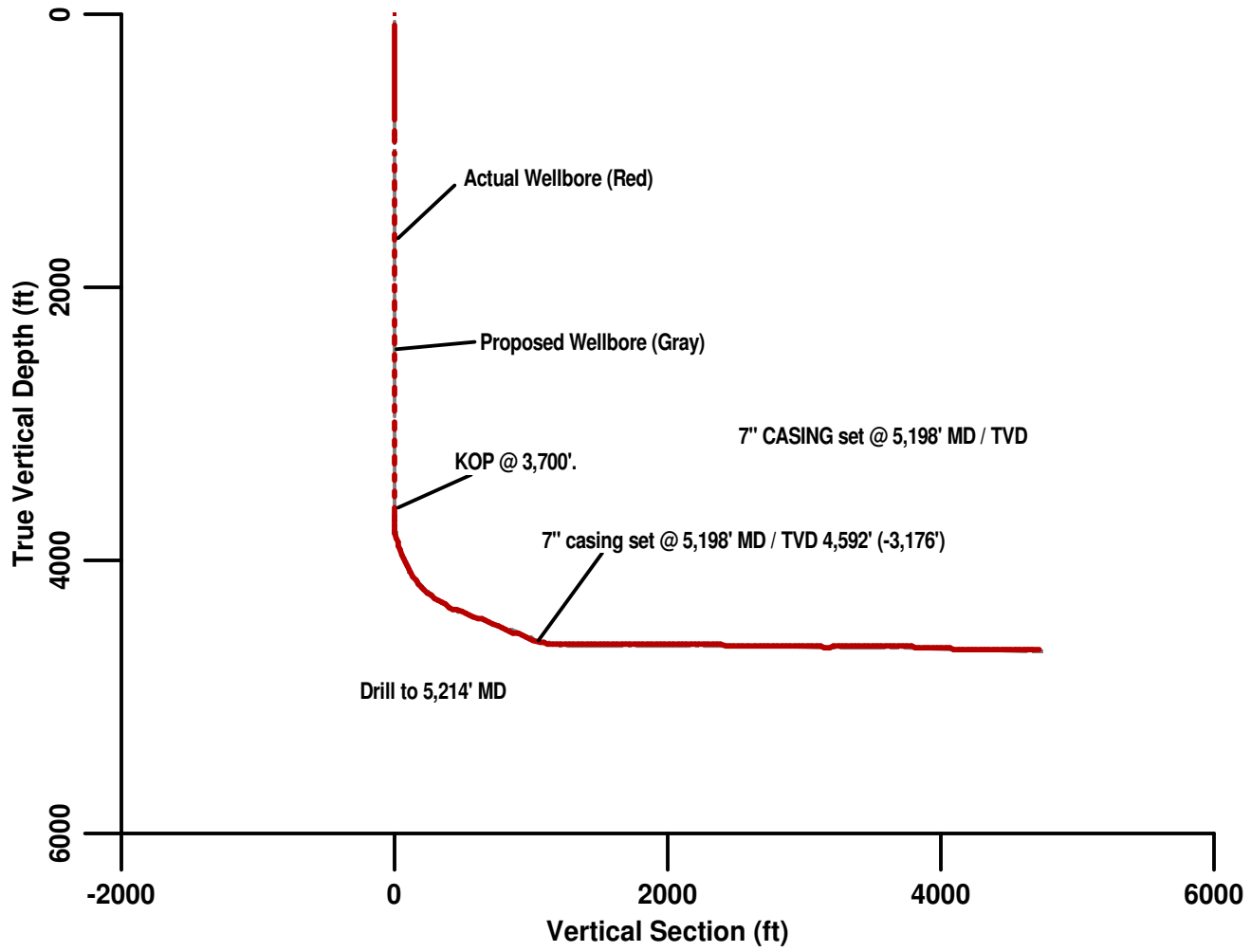
LTD: NA

ATD: NA

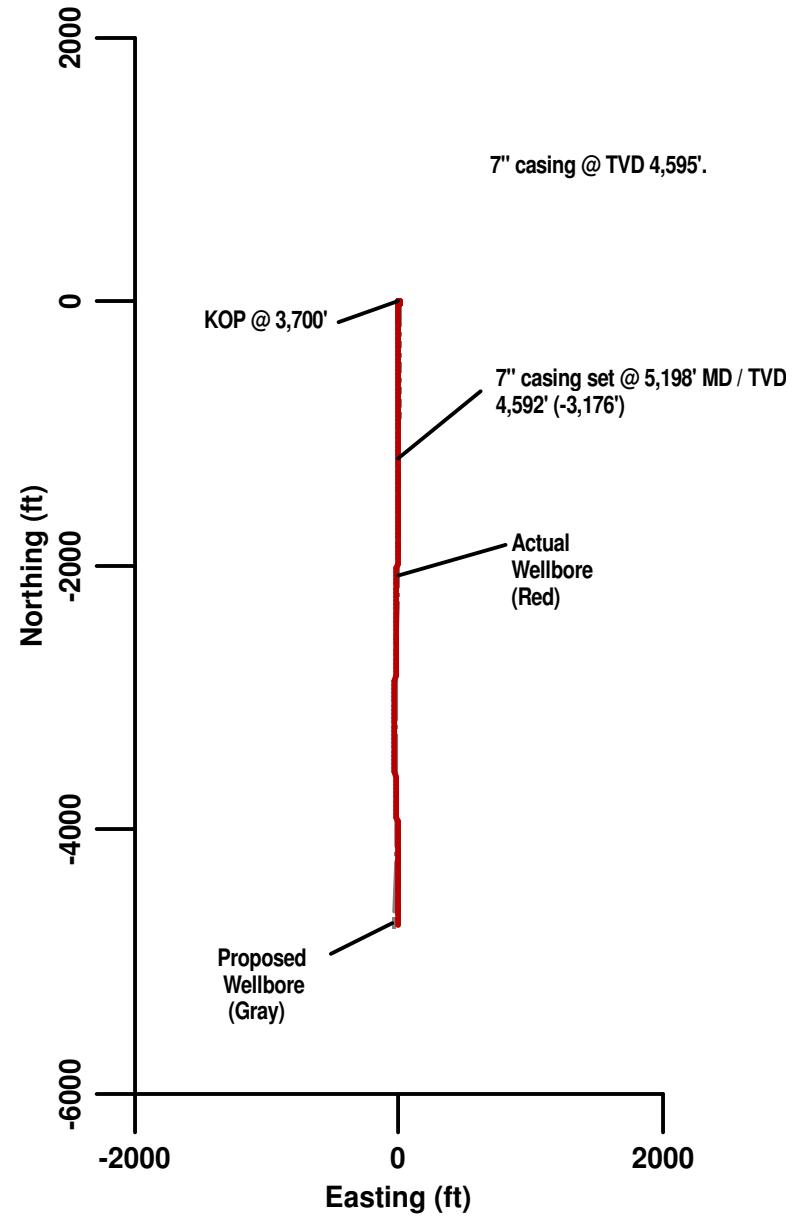
Rotary sample depth is ? to E-log depth.

E-Loggers: NA

SIDE VIEW Elevation



Bird's Eye View Plan



GEOLOG 1 - VERTICAL

20" Hole

1 Oct --- Set Conductor @ 40' with 4 yds of grout.

17-1/2" Hole

16 Oct --- Spud @ 1am.
7am @ 222'. Drill to 320'.
Run 13-3/8" casing.
Set casing @ 278'.
Cemented w/ 300 sx
60/40 Poz (3% CC). [Allied]
Cement did circulate.
Plug down @ 12:15pm. WOC.

8-3/4" Hole (Vertical & Curve)

16 Oct --- Under surface casing @ 10pm.
17 --- 7am @ 903'.
18 --- 7am @ 1,561'.
19 --- 7am @ 2,830'. Geolog 1.
T/O for BHA @ 3,700'.
20 --- 7am @ 3,700'.
21 --- 7am @ 4,215' MD. Bit Trip @ 4,662'.
Resumed Drilling @ 11pm.
23 --- 7am @ 4,825'.
24 --- Drill to 5,214' MD. Prep hole.
7am @ 5,214' MD.

GEOLOG 2 - HORIZONTAL

6-1/8" Hole (Horizontal)

25 Oct --- Run 7" casing. Set @ 5,198'.
275 sx Premium [Basic].
Plug down @ 2am.
7am @ 5,214'
26 --- Resumed Drilling @ 2:45am.
7am @ 5,315'. Start and
27 --- Finish Bit/Motor Trip @ 5,769'MD.
7am @ 5,769' MD.
Resumed Drilling @ 8:05am.
28 --- 7am @ 6,275'MD. Drill to 6,530'MD.
Start and

6-1/8" Hole (Horizontal)

29 Oct --- Finish Bit Trip @ 6,530'MD.
Resumed Drilling @ 5:35am.
7am @ 6,560'MD.
30 --- 7am @ 7,125'MD.
Bit Trip @ 7,259'MD.
Resumed Drilling @ 8:35pm.
31 --- 7am @ 7,512'MD.
Start and

6-1/8" Hole (Horizontal)

1 Nov --- 7am @ 7,861'MD.
Finish Bit Trip @ 7,861'MD.
Resumed Drilling @ 8:50am.
2 --- 7am @ 8,837'MD.
RMTD (8,869'MD) @ 7:35am.

HOLE DEVIATION (0' - 6,888' MD)

Selected Directional / MWD Surveys

DEPTH / TVD	---	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
0' / 0'	---	0.0	0	0	0	0	0	0
1,010' / 1,010'	---	0.2	138.6		1.2'	1.2'		
1,985' / 1,984.8'	---	0.2	345.2		1.9'		0.6'	
2,993' / 2,992.9'	---	0.4	292.1	0.6'			5.3'	
KOP @ 3,770'								
3,712' / 3,711.9'	---	1.8	193.6	4.7'			10.5'	5.9
3,995' / 3,985.4'	---	22.9	180.6		61.5'		14.6'	5.0
4,121' / 4,097.5'	---	31.5	183.3		118.6'		18.6'	7.7
4,215' / 4,173.8'	---	39.9	180.8		173.4'		20.4'	9.4
4,310' / 4,240.4'	---	50.9	179.1		240.9'		19.7'	11.3
4,404' / 4,294.9'	---	58.2	180.1		317.4'		19.5'	8.4
4,499' / 4,340.4'	---	64.8	179.4		400.7'		19.3'	8.2
4,594' / 4,377.2'	---	69.4	178.6		488.3'		18.0'	6.4
4,690' / 4,410.9'	---	68.9	178.6		578.1'		16.0'	1.7
4,816' / 4,456.5'	---	68.8	179.1		695.6'		13.5'	2.1
4,920' / 4,491.0'	---	68.3	178.8		783.0'		11.6'	0.6
5,005' / 4,526.7'	---	68.1	179.9		871.0'		10.5'	2.1
5,100' / 4,572.3'	---	69.1	180.4		989.6'		11.3'	6.9
Projected to 5,214' :								
5,214' / 4,595.3'	---	76.06	180.6	1'068.3'			12.5'	5.8
Run 7" casing @ 5,198'.								
5,208' / 4,594.6'	---	73.6	180.6		1,062.2'		12.4'	1.1
5,302' / 4,609.8'	---	82.0	178.1		1,123.3'		12.0'	12.8
5,397' / 4,619.6'	---	90.1	179.3		1,248.0'		9.9'	2.6
5,492' / 4,617.2'	---	91.9	179.8		1,343.6'		7.4	3.3
5,619' / 4,612.2'	---	91.9	181.3		1,470.5'		9.5'	2.6
5,715' / 4,611.8'	---	89.6	181.8		1,597.4'		12.6'	0.6
5,810' / 4,617.4'	---	89.8	181.8		1,661.4'		14.7'	1.6
5,905' / 4,612.1'	---	90.5	181.6		1,756.4'		17.5'	0.9
6,000' / 4,611.1'	---	89.2	180.8		1,851.3'		19.5'	4.8
6,095' / 4,613.2'	---	88.4	181.1		1,946.3'		20.9'	0.9
6,191' / 4,614.7'	---	90.8	180.3		2,042.3'		22.4'	4.7
6,318' / 4,616.0'	---	88.8	181.4		2,169.2'		24.2'	1.3
6,413' / 4,616.1'	---	88.8	182.1		2,295.2'		28.0'	5.8
6,507' / 4,619.8'	---	87.8	180.6		2,390.1'		29.5'	1.7
6,602' / 4,620.9'	---	89.3	180.1		2,453.1'		29.9'	0.7
6,697' / 4,621.7'	---	89.3	180.1		2,548.1'		30.3'	0.9
6,792' / 4,623.7'	---	88.2	181.2		2,643.0'		31.1'	1.2
6,888' / 4,675.8'	---	90.0	181.6		2,738.9'		33.8'	2.9

HOLE DEVIATION (7,015' MD - 8.821'MD) Selected Directional / MWD Surveys




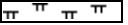






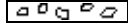







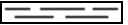

DEPTH / TVD	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
7,015' / 4,625.8'	89.1	180.8		2,866.1'		36.9'	3.1
7,110' / 4,627.8'	89.0	180.1		2,960.9'		37.4'	1.6
7,205' / 4,630.2'	87.8	179.8		3,055.9'		37.5'	1.8
7,301' / 4,633.5'	89.0	181.4		3,151.8'		38.5'	3.2
7,396' / 4,631.3'	92.2	181.6		3,246.7'		41.9'	3.1
7,491' / 4,628.6'	91.4	179.6		3,341.6'		42.5'	0.9
7,618' / 4,627.1'	88.4	177.9		3,468.6'		40.3'	4.1
7,713' / 4,629.4'	89.2	177.8		3,563.5'		37.0'	1.3
7,808' / 4,630.2'	89.8	178.1		3,688.4'		32.9'	0.0
7,902' / 4,631.0'	88.0	177.8		3,752.4'		30.5'	5.6
7,996' / 4,636.9'	85.9	177.6		3,846.1'		25.8'	0.7
8,091' / 4,642.5'	87.7	177.6		3,940.5'		21.5'	2.8
8,186' / 4,645.9'	88.9	178.6		4,035.7'		18.5'	2.8
8,313' / 4,647.0'	89.5	178.8		4,167.6'		15.6'	1.0
8,408' / 4,648.4'	88.9	178.9		4,252.6'		13.3'	1.9
8,503' / 4,649.6'	89.1	179.3		4,352.6'		11.7'	2.0
8,598' / 4,650.7'	89.3	179.1		4,447.6'		10.4'	1.2
8,694' / 4,651.9'	89.1	179.9		4,543.6'		9.7'	0.3
8,789' / 4,653.2'	88.6	180.3		4,638.6'		9.6'	3.4
8,821' / 4,654.0'	88.6	180.1		4,670.5'		9.8'	0.6
Projection to:							
8,869' / 4,655.2'	88.6	180.0		4,718.5'		9.8'	0.2

Calmena Energy Services -- Oklahoma City, Oklahoma









































































BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
SURFACE ---							
16 Oct	12-1/4"	VAREL L-117	3 / 18's	40' / 320'	280'	5.50	50.9
VERTICAL & CURVE ---							
17 Oct	8-3/4"	REED DSX616MD	16 / 14's	320' / 3,700'	3,380'	60.00	56.6
20 Oct	8-3/4"	REED R-22AP	3 / 20's	3,700' / 4,662'	962'	40.50	23.7
22 Oct	8-3/4"	REED R-22AP	3 / 20's	4,662' / 5,214'	552'	17.00	32.5
HORIZONTAL ---							
25 Oct	6-1/8"	SMITH XR40Y0DPS	3 / 20's	5,214' / 5,769'	555'	23.00	24.1
27 Oct	6-1/8"	SMITH XR50Y	3 / 20's	5,769' / 6,530'	761'	24.50	31.1
29 Oct	6-1/8"	HUGHES STX50DX	3 / 20's	6,530' / 7,259'	729'	49.75	14.7
30 Oct	6-1/8"	HUGHES STX50DX	3 / 20's	7,259' / 7,861'	602'	16.50	36.5
1 Nov	6-1/8"	HUGHES F50Y	3 / 20's	7,861' / 8,869'	1,008'	22.50	44.8

ROCK TYPES








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

ACCESSORIES

MINERAL		Gyp	FOSSIL		Ostra		Mrst
	Anhy				Pelec		Sltstrg
	Arggrn				Pellet		Ssstrg
	Arg				Pisolite		
	Bent				Plant		
	Bit				Strom		
	Brecfrag					TEXTURE	
	Calc						Boundst
	Carb						Chalky
	Chtdk						Cryxln
	Chtlt						Earthy
	Dol						Finexln
	Feldspar						Grainst
	Ferrpel						Lithogr
	Ferr						Microxln
	Glau						Mudst
				STRINGER			Packst
					Anhy		Wackest
					Arg		
					Bent		
					Coal		
					Dol		
					Gyp		
					Ls		
					Dol ls		


OTHER SYMBOLS

POROSITY





-  Earthy
-  Fenest
-  Fracture
-  Inter
-  Moldic
-  Organic
-  Pinpoint

-  Vuggy

SORTING

-  Well
-  Moderate
-  Poor

ROUNDING


-  Rounded
-  Subrnd
-  Subang
-  Angular

OIL SHOW

-  Gas

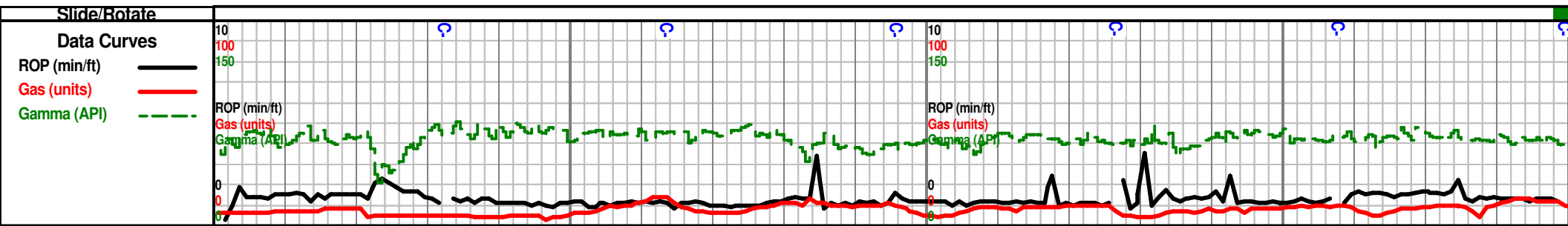
-  Even
-  Spotted
-  Ques
-  Dead

INTERVAL

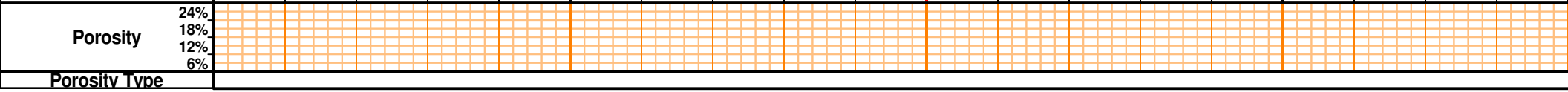
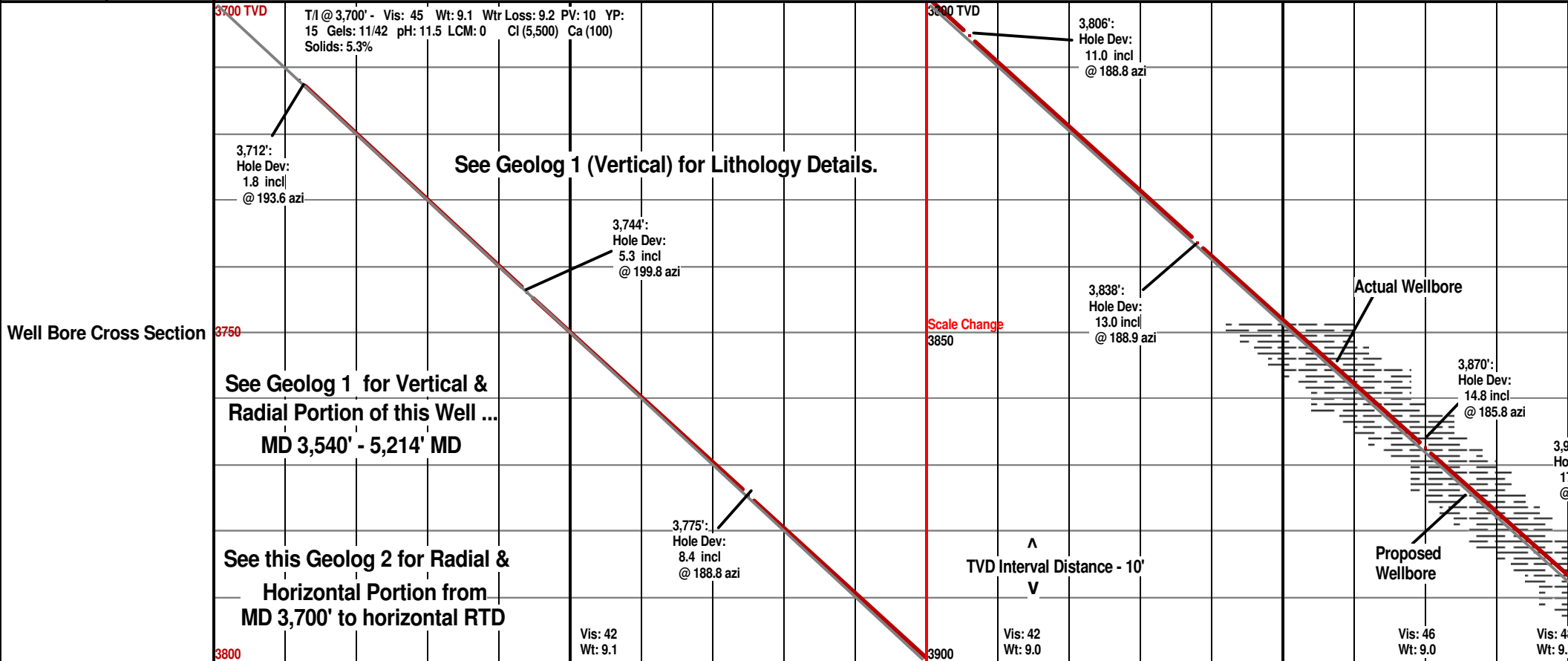
-  Core
-  Dst

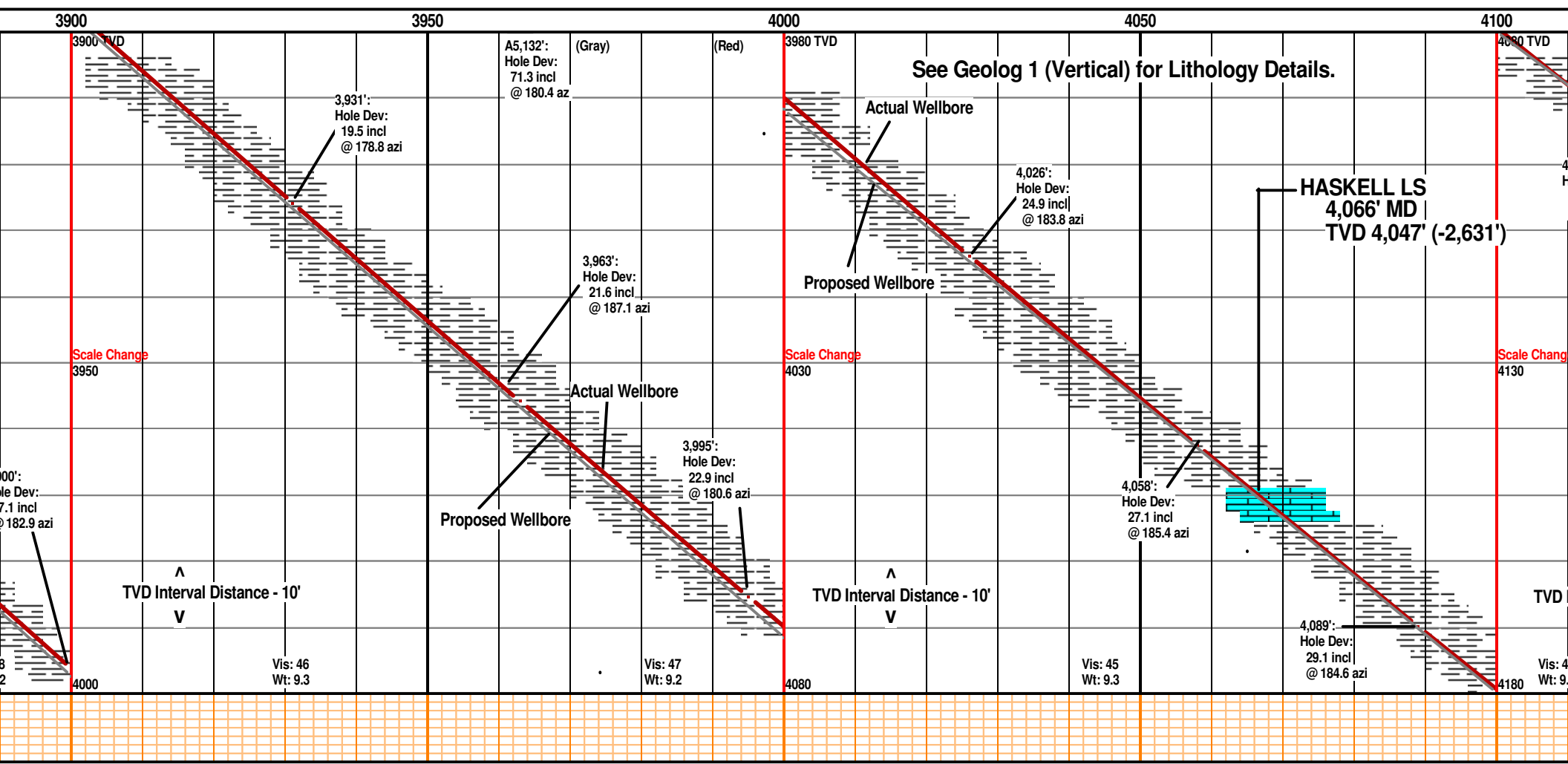
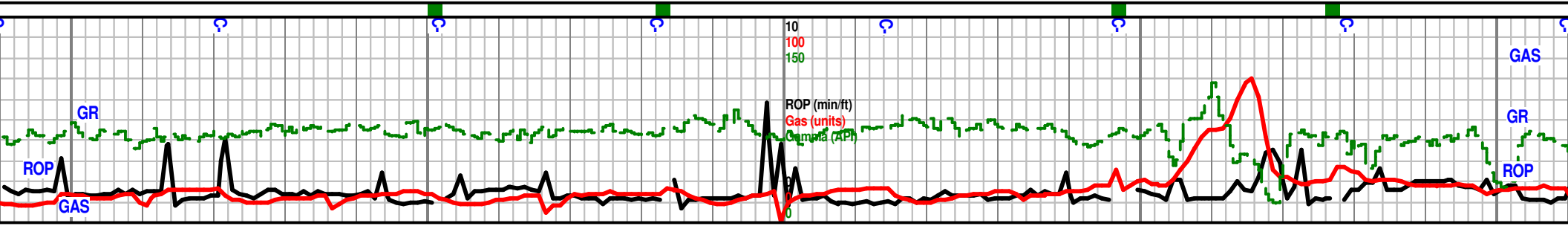
EVENT

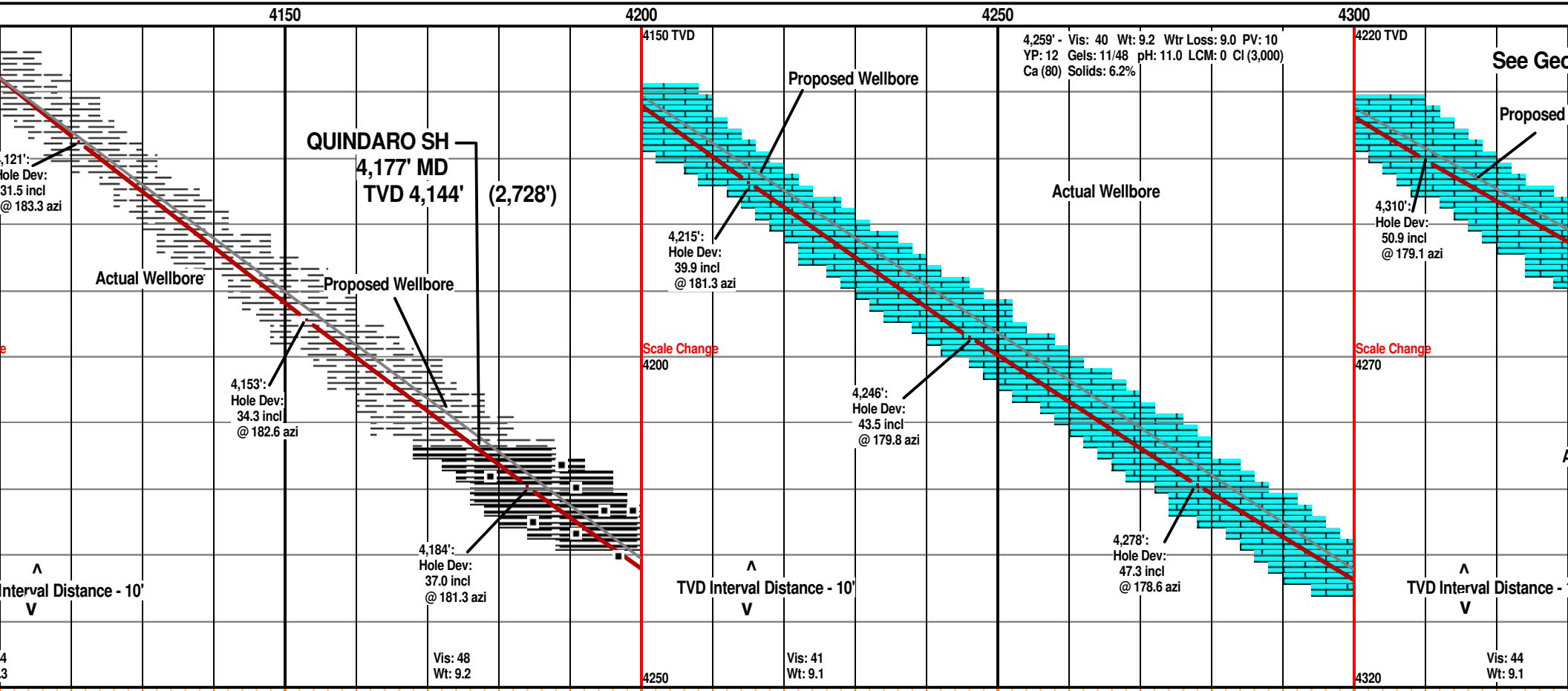
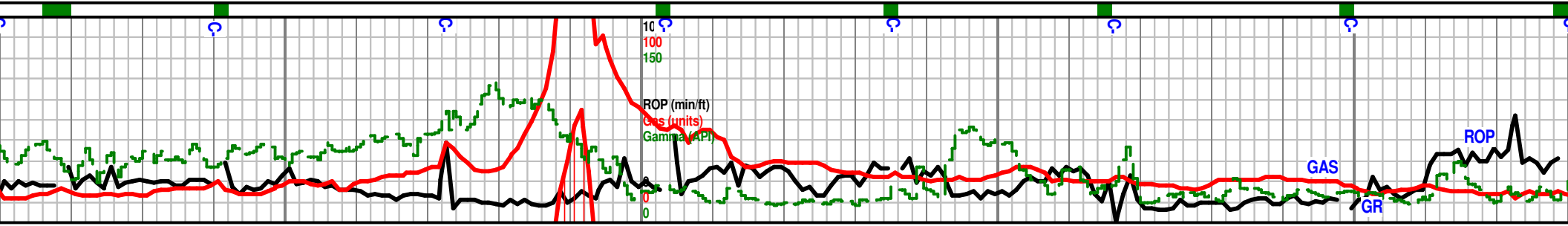
-  Rft
-  Sidewall

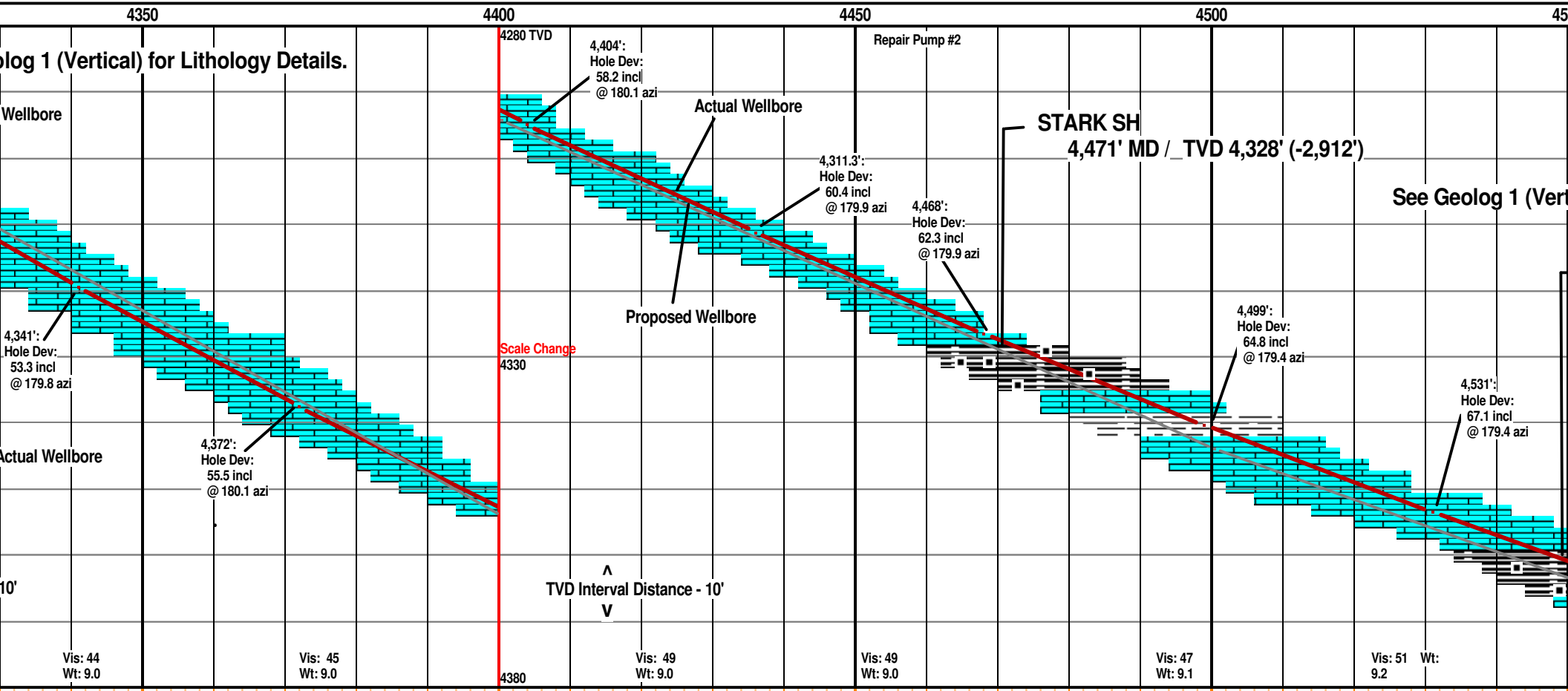
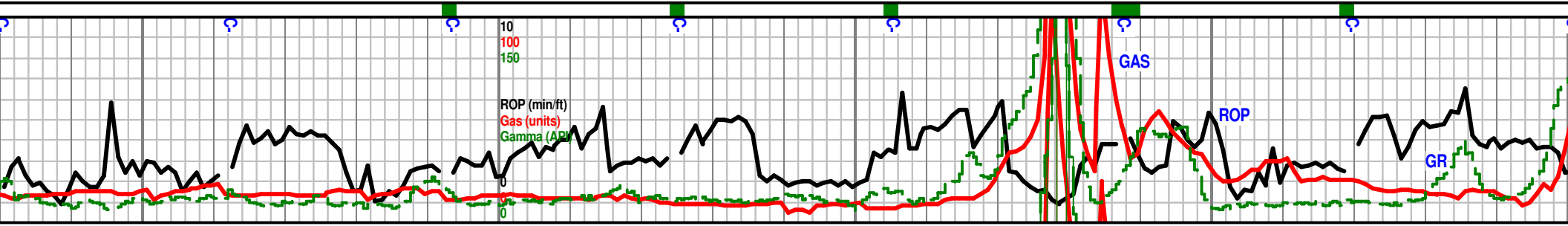


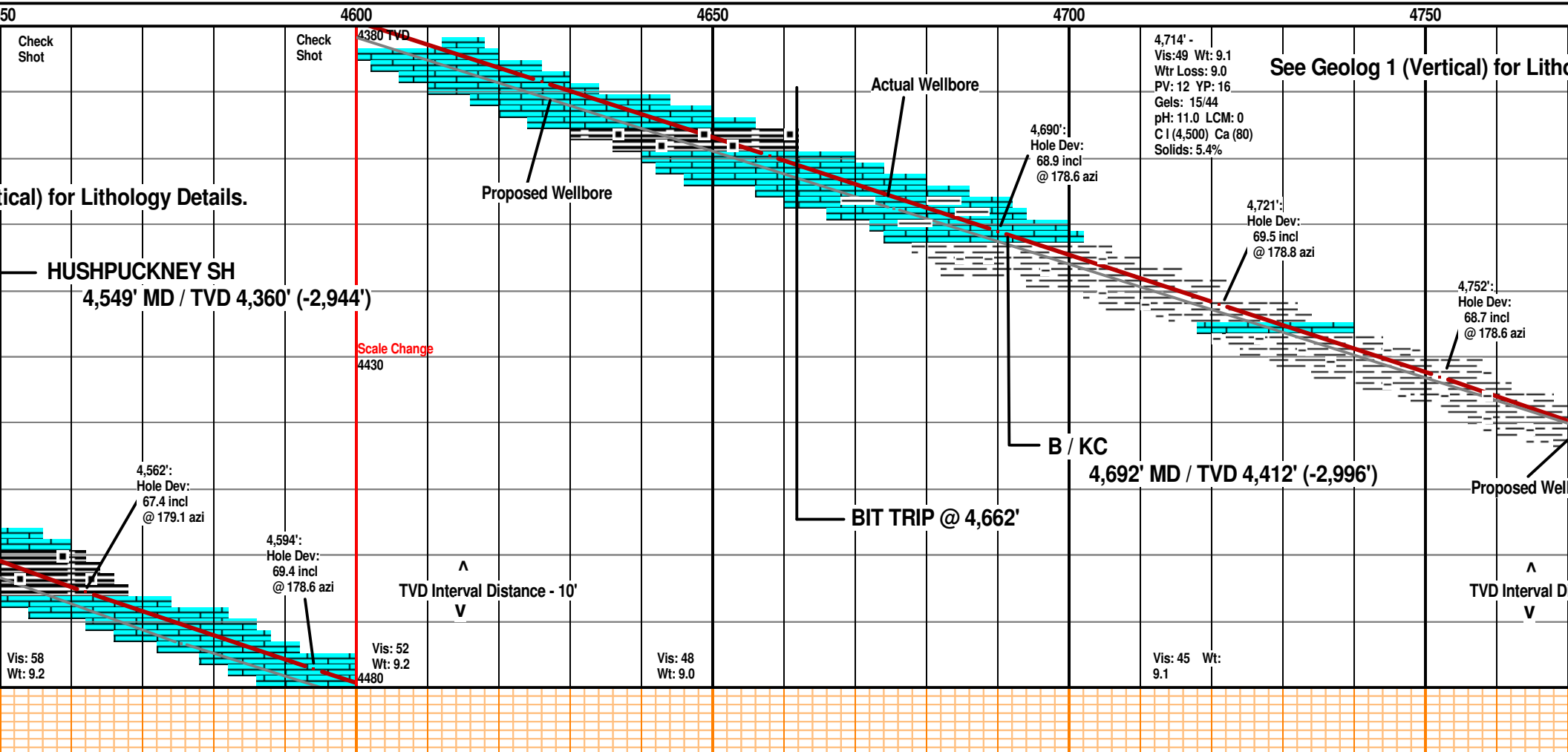
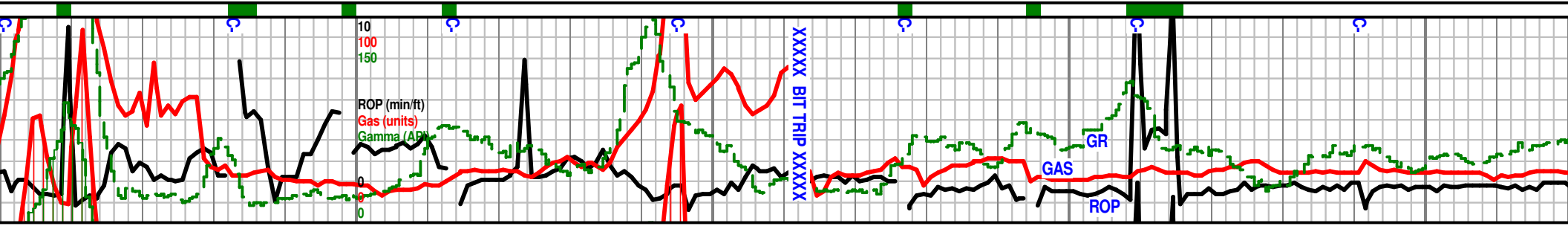
Oil Shows

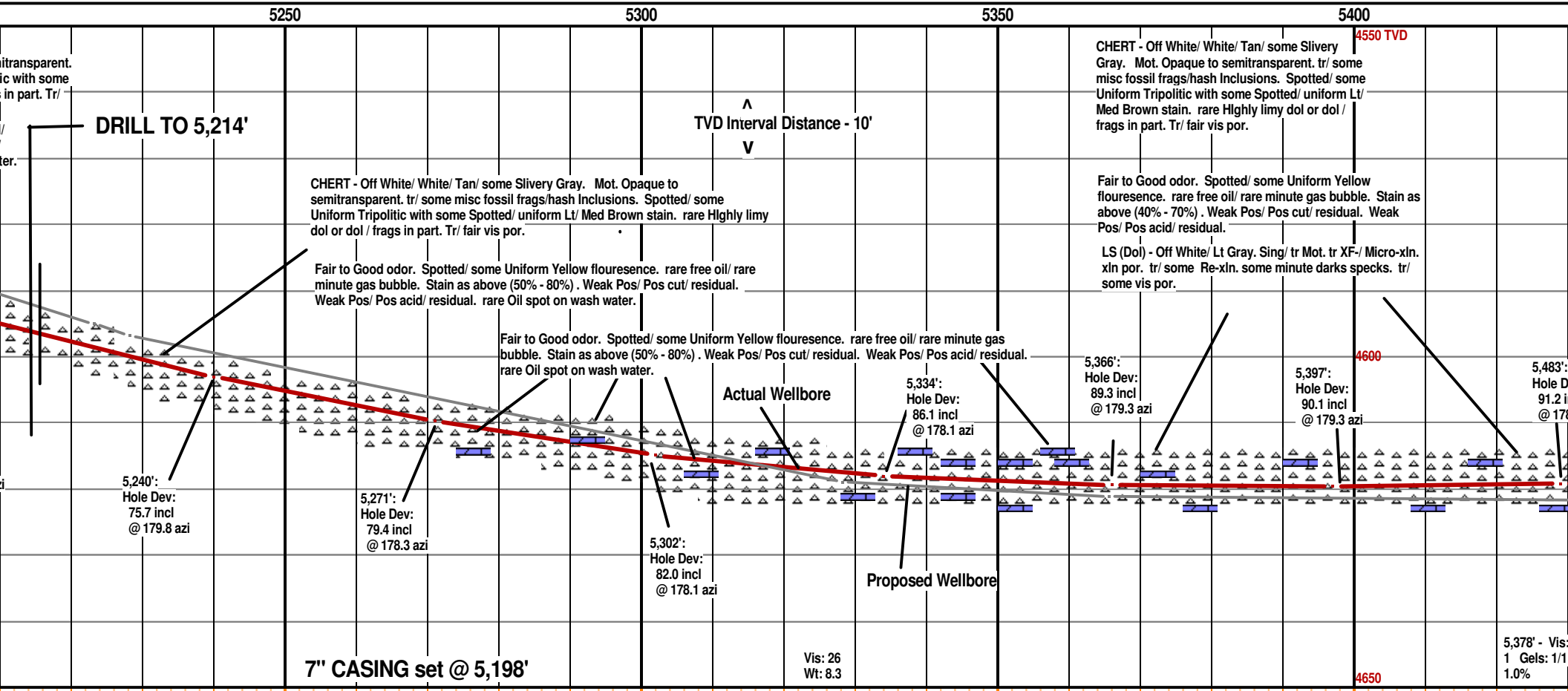
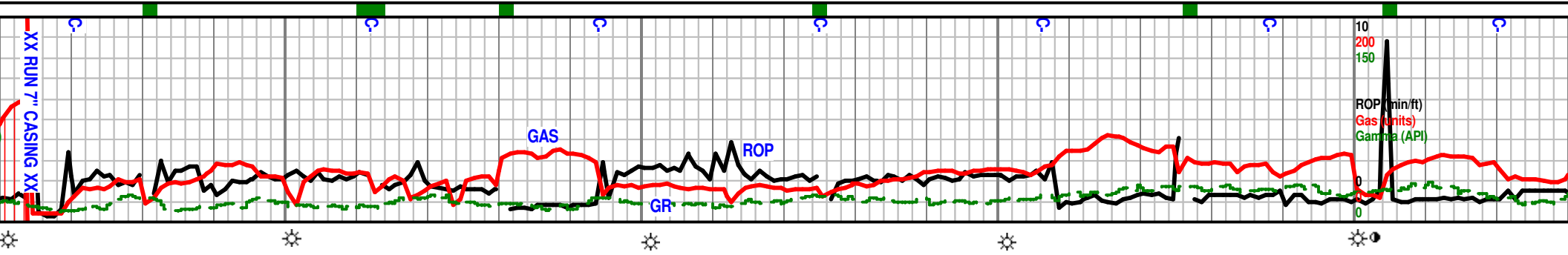


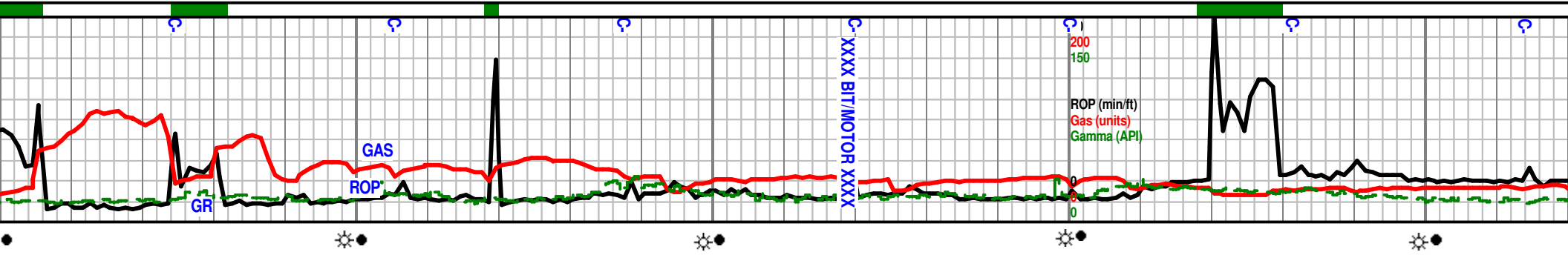






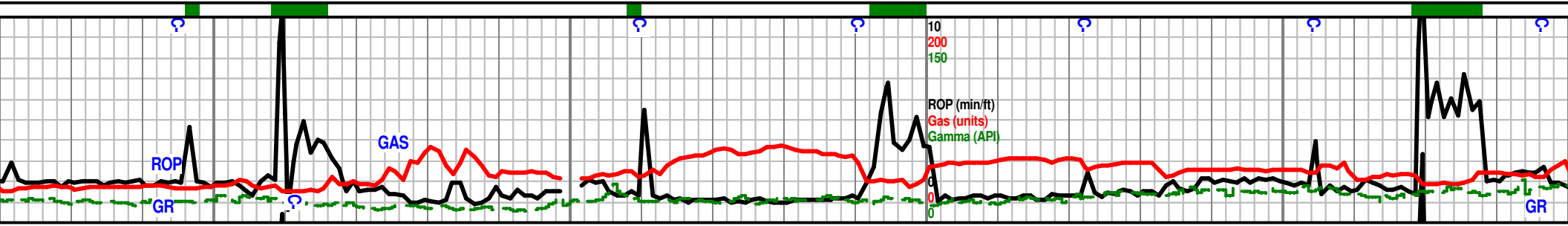






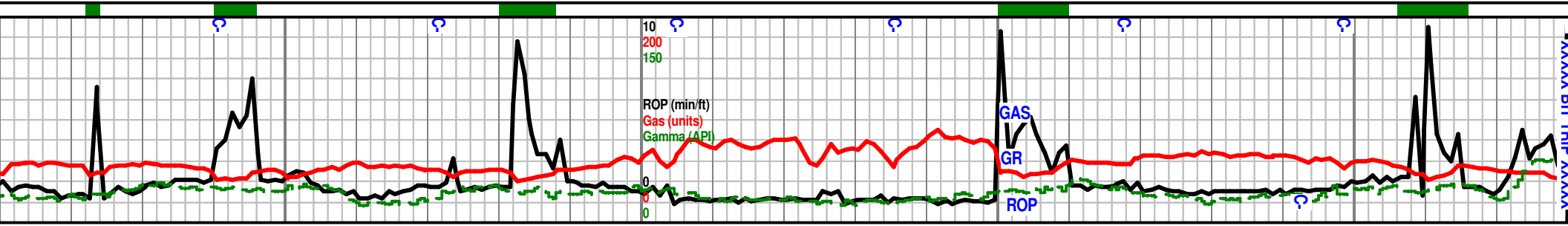
5700	5750	5800	5850
BIT TRIP @ 5,769' MD ^ TVD Interval Distance - 10' v CFS @ 5,769': 60"		4550 TVD	
CHERT - Off White/ White/ Tan/ some Silvery Gray. Mot. Opaque to semitransparent. tr/ some misc fossil frags/hash Inclusions. Spotted/ Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.		CHERT - Off White/ White/ Tan/ rare Silvery Gray. Mot. Opaque to semitransparent. rare Inclusions. Spotted/ Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.	
Fair/ Good odor. Mixture of Spotted/ Uniform Yellow fluorescence. rare free oil/ rarer minute gas bubble. Stain as above (70% - 90%) . Pos cut/ residual. Pos acid/ residual.		Fair/ Good odor. Mixture of Spotted/ Uniform Yellow fluorescence. rare free oil/ rarer minute gas bubble. Stain as above (70% - 90%) . Pos cut/ residual. Pos acid/ residual.	
5,651': Hole Dev: 90.3 incl @ 181.3 azi	5,683': Hole Dev: 89.9 incl @ 181.3 azi	5,715': Hole Dev: 89.8 incl @ 181.8 azi	5,746': Hole Dev: 89.6 incl @ 181.8 azi
5,778': Hole Dev: 89.3 incl @ 181.9 azi	5,809': Hole Dev: 89.8 incl @ 181.8 azi	5,841': Hole Dev: 90.2 incl @ 181.8 azi	5,873': Hole Dev: 90.2 incl @ 181.8 azi
Actual Wellbore		Proposed Wellbore	
		5,823' - Vis: 26 Wt: 8.3 Wtr Loss: NC PV: 1 YP: 1 Gels: 1/1 pH: 7.0 LCM: 0 Cl (700) Ca (240) Solids: 1.0%	





5900 5950 6000 6050

<p>misc fossil frags/hash</p>	<p>TVD Interval Distance - 10'</p>	<p>4550 TVD</p>	<p>CHERT - Off White/ White/ Tan/ some Silvery Gray. Mot. Opaque to semitransparent. rare/ tr misc fossil frags/ Spotted/ Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.</p>
<p>minute gas bubble. Stain as above</p>	<p>CHERT - Off White/ White/ Tan/ rare Silvery Gray. Mot. Opaque to semitransparent. rare misc fossil frags/hash Inclusions. Spotted/ Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.</p>	<p>Fair/ Good odor. Mixture of Spotted/ Uniform Yellow fluorescence. rare free oil/ rarer minute gas bubble. Stain as above (40% - 75%). Pos cut/ residual. Pos acid/ residual.</p>	<p>Fair/ Good odor. Mixture of Spotted/ Uniform Yellow fluorescence. rare free oil/ rarer minute gas bubble. Stain as above (40% - 75%). Pos cut/ residual. Pos acid/ residual.</p>
<p>vis: 27 wt: 8.3</p>	<p>5,605': Hole Dev: 90.5 incl @ 181.6 azi</p> <p>< TVD 4,600' ></p> <p>Actual Wellbore</p>	<p>5,936': Hole Dev: 91.2 incl @ 181.3 azi</p> <p>5,968': Hole Dev: 90.7 incl @ 181.1 azi</p> <p>6,000': Hole Dev: 89.2 incl @ 180.8 azi</p> <p>4600</p>	<p>6,032': Hole Dev: 89.0 incl @ 180.8 azi</p> <p>6,064': Hole Dev: 88.4 incl @ 181.1 azi</p>
<p>Proposed Wellbore</p>	<p>Proposed Wellbore</p>	<p>4650</p>	<p>Vis: 27 Wt: 8.3</p>



6350 6400 6450 6500

Interval Distance - 10' TVD Interval Distance - 10'

Clear/ Off White/ White/ Tan/ some rare Silvery Gray. Mot. Opaque to semitransparent. rare/ tr misc fossil frags/hash inclusions. Spotted/ Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.

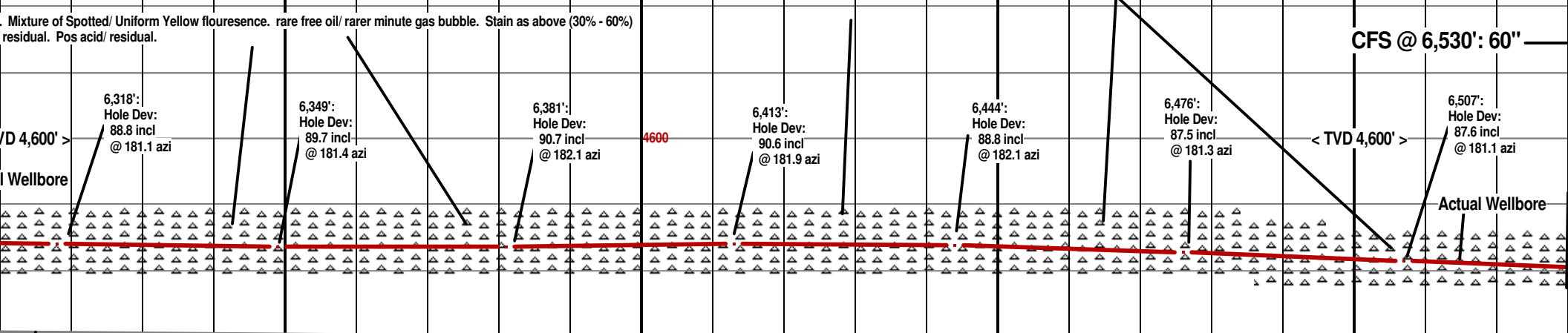
CHERT - Clear/ Off White/ White/ Tan. Mot. Opaque to semitransparent. rare/ tr misc fossil frags/hash inclusions. Spotted/ Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.

Mixture of Spotted/ Uniform Yellow fluorescence. rare free oil/ rarer minute gas bubble. Stain as above (30% - 60%) residual. Pos acid/ residual.

Fair odor. Mixture of some Barren/ mostly Spotted/ tr Uniform Yellow fluorescence. rare free oil/ rarer minute gas bubble. Stain as above (30% - 50%) . Pos cut/ residual. Pos acid/ residual.

BIT TRIP @ 6,530' MD

CFS @ 6,530': 60"



Proposed Wellbore Proposed Wellbore

6,337' - Vis: 27 Wt: 8.3 Wtr Loss: NC PV: 1
Yp: 1 Gels: 1/1 pH: 7.0 LCM: 0 Cl (800) Ca
(360) Solids: 1.0%

Vis: 28
Wt: 8.3

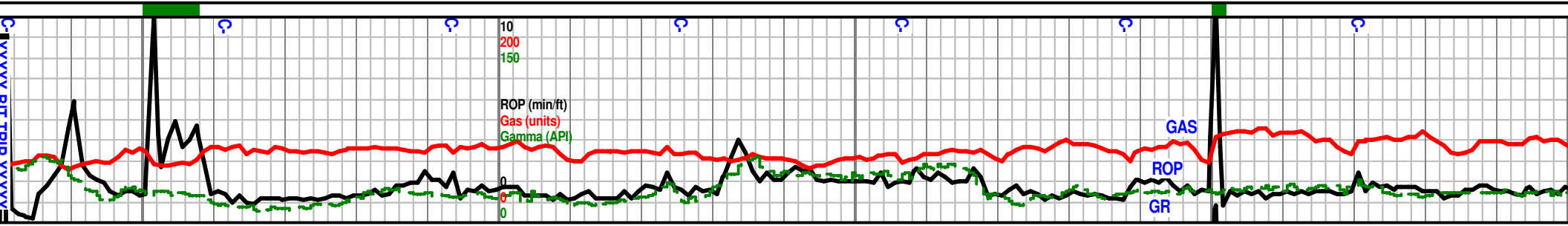
Vis: 25
Wt: 8.3

Vis: 28
Wt: 8.3

4650

4600

4550 TVD



6550

6600

6650

6700

6750

CHERT - Clear/ Off White/ White/ Tan. Mot. Opaque to semitransparent. rare misc fossil frags/hash Inclusions. Barren/ some Spotted/ rare Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.

Fair odor. Mixture of some Barren/ mostly Spotted/ tr Uniform Yellow fluorescence. rare free oil/ rarer minute gas bubble. Stain as above (30% - 50%) . Pos cut/ residual. Pos acid/ residual.

LS (Dol) - Off White/ Lt Gray. Sing/ tr Mot. tr XF-/ Micro-xln. xln por. tr/ some Re-xln. some minute darks specks. tr/ some vis por.

CHERT - Clear/ Off White/ White/ Tan. Mot. Opaque to semitransparent. rare misc fossil frags/h some Spotted/ rare Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.

Fair odor. Mixture of some Barren/ mostly Spotted/ tr Uniform Yellow fluorescence. rare free oil/ Stain as above (20% - 50%) . Pos cut/ residual. Pos acid/ residual.

few pcs: LS (Dol) - Off White/ Lt Gray. Sing/ tr Mot. tr XF-/ Micro-xln. xln por. tr/ some Re-xln. some vis por.

6,539':
Hole Dev:
87.8 incl
@ 180.6 azi

6,571':
Hole Dev:
89.4 incl
@ 180.6 azi

6,602':
Hole Dev:
89.3 incl
@ 180.1 azi

6,634':
Hole Dev:
89.8 incl
@ 180.3 azi

6,666':
Hole Dev:
89.5 incl
@ 180.3 azi

6,697':
Hole Dev:
89.3 incl
@ 180.1 azi

6,729':
Hole Dev:
89.1 incl
@ 180.1 azi

4550 TVD

4600

4650

^
TVD Interval Distance - 10'
v

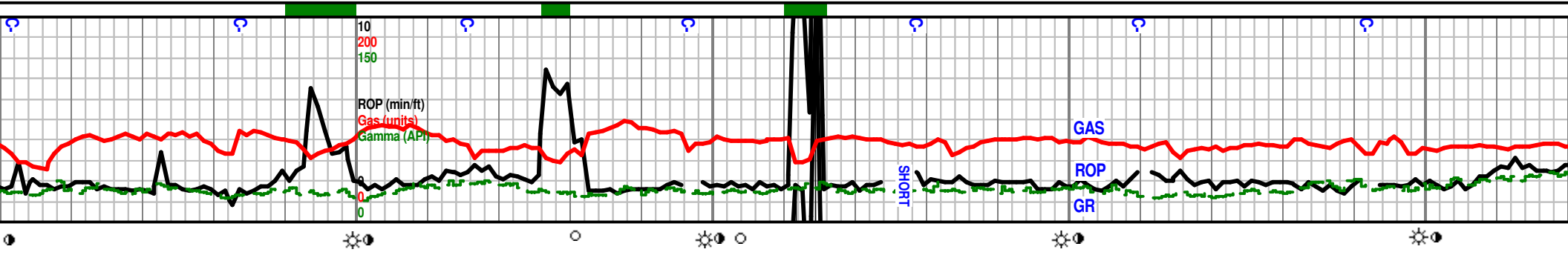
< TVD 4,600' >

Actual Wellbore

Proposed Wellbore

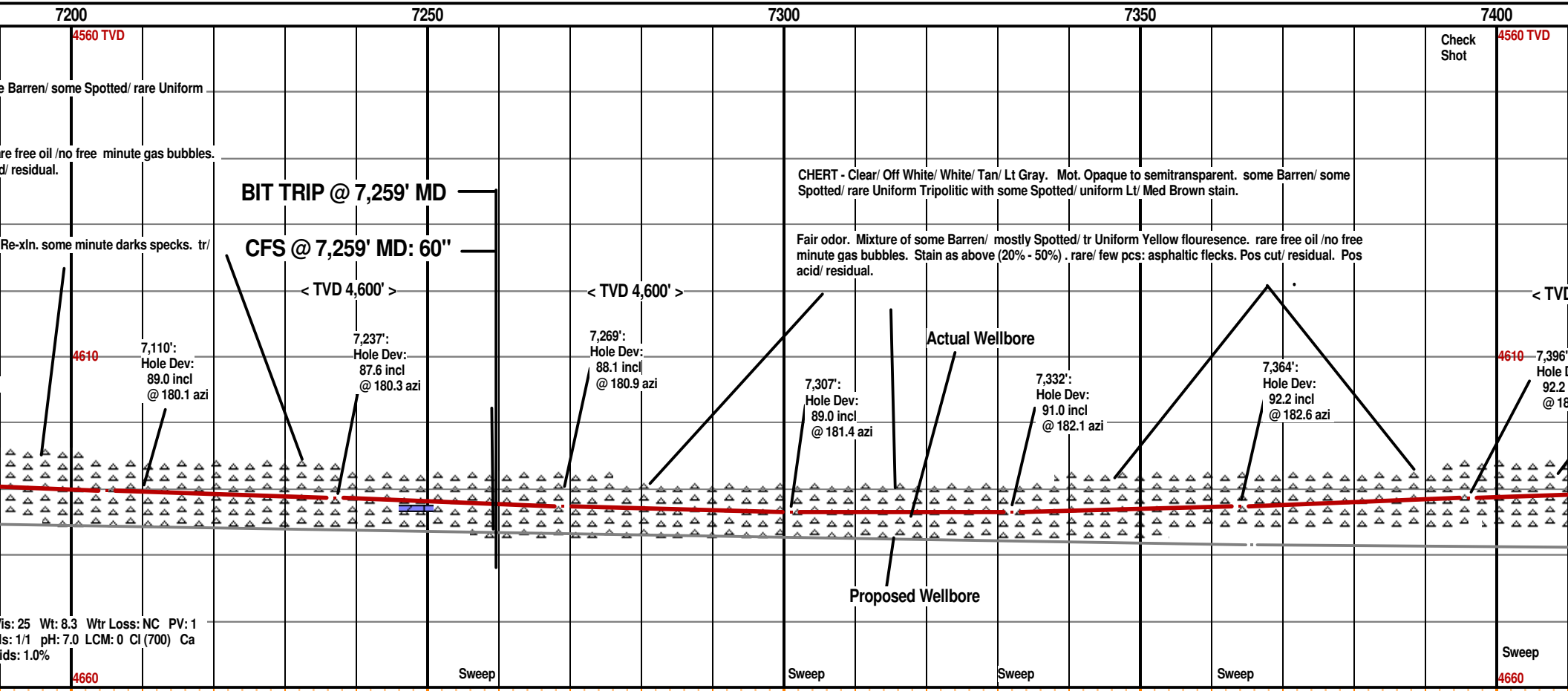
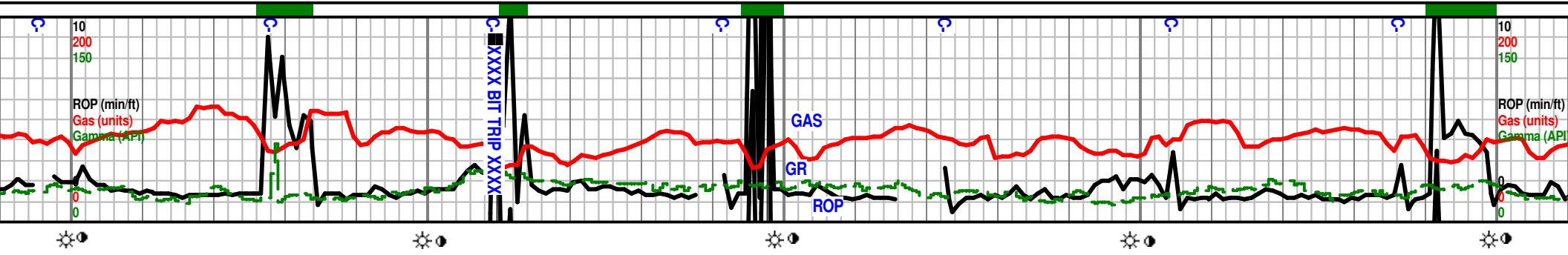
6,625' - Vis: 25 Wt: 8.3 Wtr Loss: NC PV: 1
YP: 1 Gels: 1/1 pH: 7.0 LCM: 0 Cl (600) Ca
(360) Solids: 1.0%

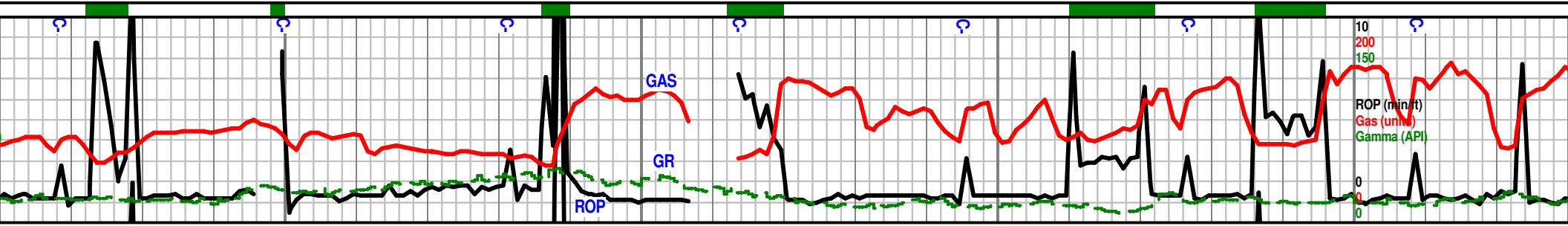
Vis: 28
Wt: 8.3



6850	6880	6900	6950
4550 TVD		4560 TVD	
<p>CHERT - Clear/ Off White/ White/ Tan. Mot. Opaque to semitransparent. rare misc fossil frags/hash Inclusions. some Barren/ some Spotted/ rare Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.</p> <p>Fair odor. Mixture of some Barren/ mostly Spotted/ tr Uniform Yellow fluorescence. rare free oil/ no free minute gas bubbles. Stain as above (20% - 50%) . rare/ few pcs: asphaltic flecks. Pos cut/ residual. Pos acid/ residual.</p> <p>few pcs: LS (Do) - Off White/ Lt Gray. Sing/ tr Mot. tr XF-/ Micro-xln. xln por. tr/ some Re-xln. some minute darks specks. tr/ some vis por.</p>		<p>CHERT - Clear/ Off White/ White/ Tan. Mot. Opaque to semitransparent. rare misc fossil frags/hash Inclusions. some Barren/ some Spotted/ rare Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.</p> <p>Fair odor. Mixture of some Barren/ mostly Spotted/ tr Uniform Yellow fluorescence. rare free oil/ no free minute gas bubbles. Stain as above (20% - 50%) . rare/ few pcs: asphaltic flecks. Pos cut/ residual.</p> <p>few pcs: LS (Do) - Off White/ Lt Gray. Sing/ tr Mot. tr XF-/ Micro-xln. xln por. tr/ some Re-xln. some minute darks specks. tr/ some vis por.</p>	
6,761': Hole Dev: 88.4 incl @ 180.8 azi	6,792': Hole Dev: 88.2 incl @ 181.1 azi	6,824': Hole Dev: 88.8 incl @ 181.4 azi	6,856': Hole Dev: 89.2 incl @ 182.1 azi
		6,888': Hole Dev: 90.0 incl @ 181.6 azi	6,919': Hole Dev: 90.0 incl @ 181.3 azi
		6,951': Hole Dev: 90.2 incl @ 181.6 azi	
		Actual Wellbore	Proposed Wellbore
		Pump Sweep	Pump Sweep







7450

7500

7550

7600

CHERT - Clear/ Off White/ White/ Tan/ Lt Gray. Mot. Opaque to semitransparent. some Barren/ some Spotted/ rare Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.

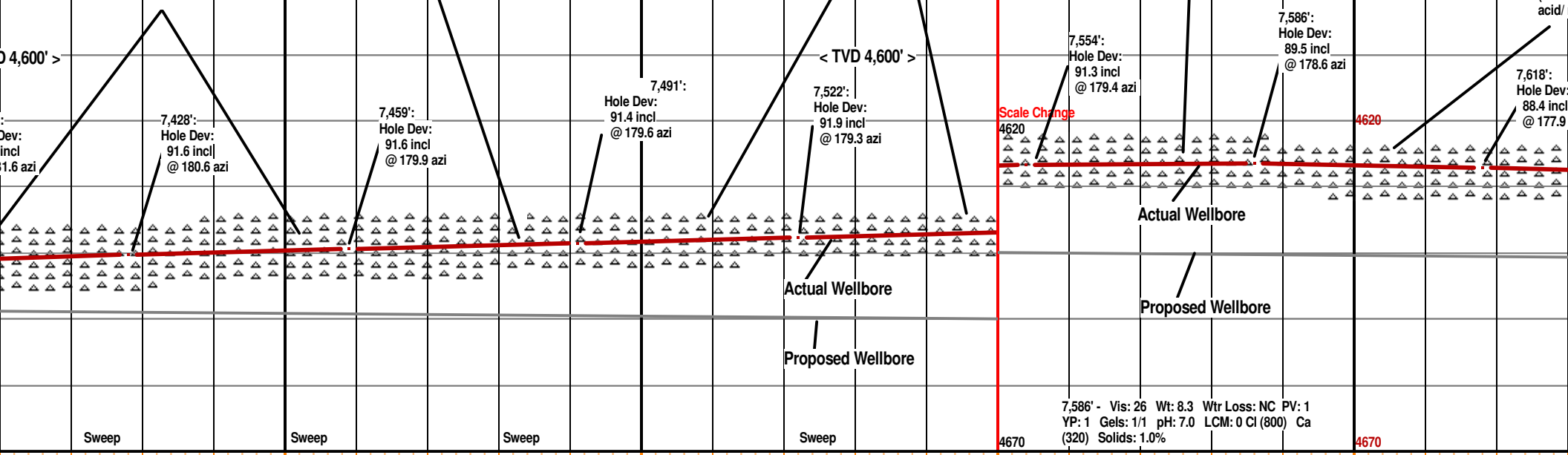
Fair odor. Mixture of some Barren/ mostly Spotted/ tr Uniform Yellow fluorescence. rare free oil/ no free minute gas bubbles. Stain as above (40% - 70%) . rare/ few pcs: asphaltic flecks. Pos cut/ residual. Pos acid/ residual.

CHERT - Clear/ Off White/ White/ Tan/ Lt Gray. Mot. Opaque to semitransparent. some Barren/ some Spotted/ rare Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.

Fair odor. Mixture of some Barren/ mostly Spotted/ tr Uniform Yellow fluorescence. rare free oil/ no free minute gas bubbles. Stain as above (40% - 80%) . rare/ few pcs: asphaltic flecks. Pos cut/ residual. Pos acid/ residual.

CHERT semitr with s

Fair o floure (40% acid/



Scale Change

Actual Wellbore

Proposed Wellbore

7,586' - Vis: 26 Wt: 8.3 Wtr Loss: NC PV: 1
 YP: 1 Gels: 1/1 pH: 7.0 LCM: 0 Cl (800) Ca
 (320) Solids: 1.0%

Sweep

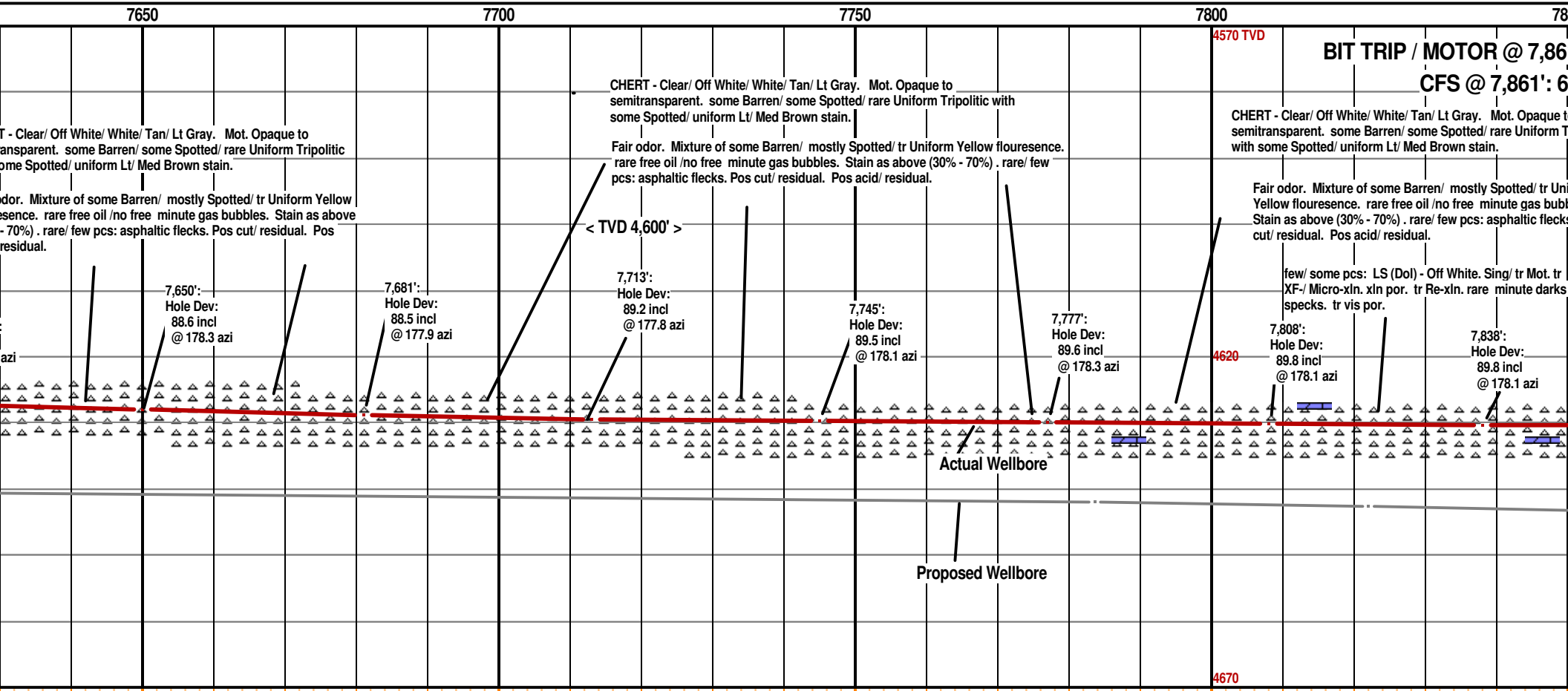
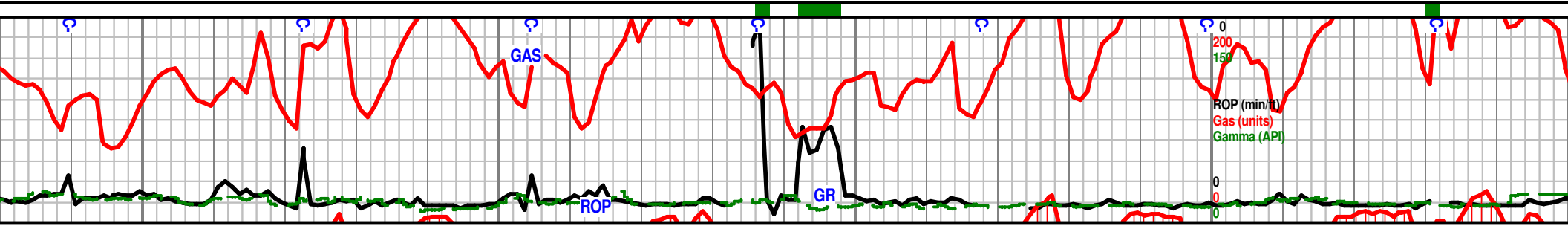
Sweep

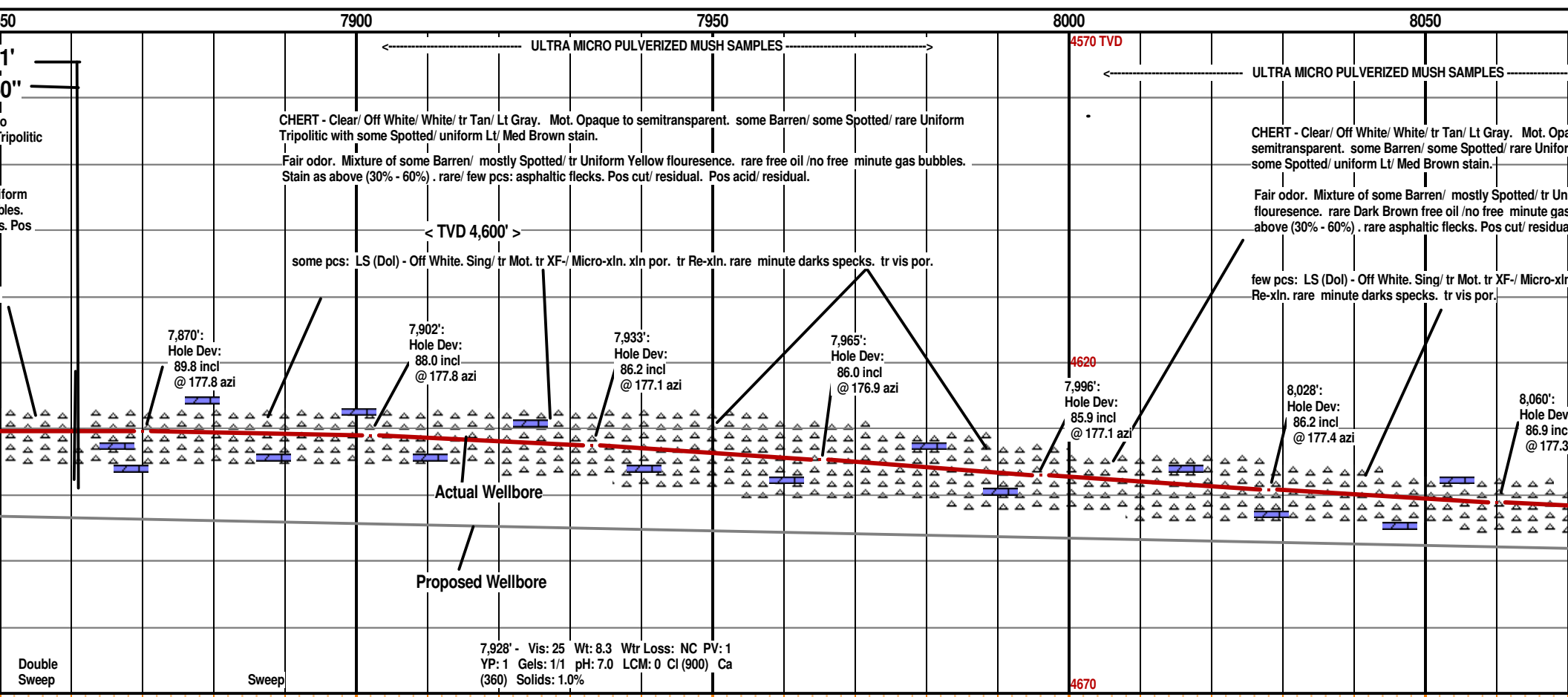
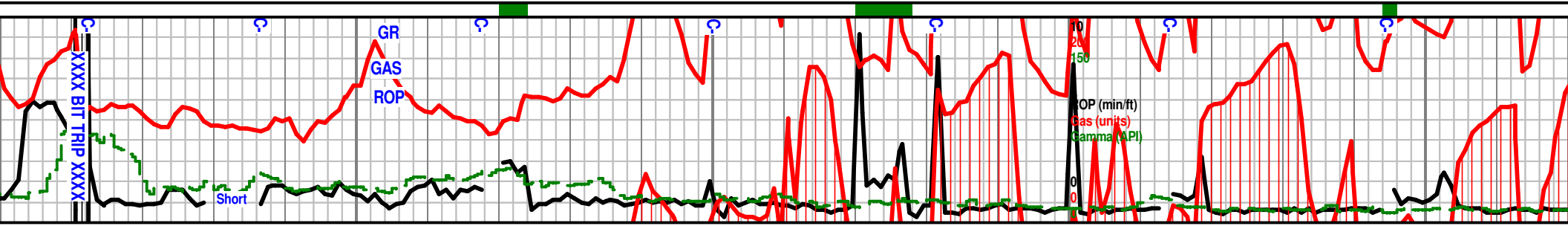
Sweep

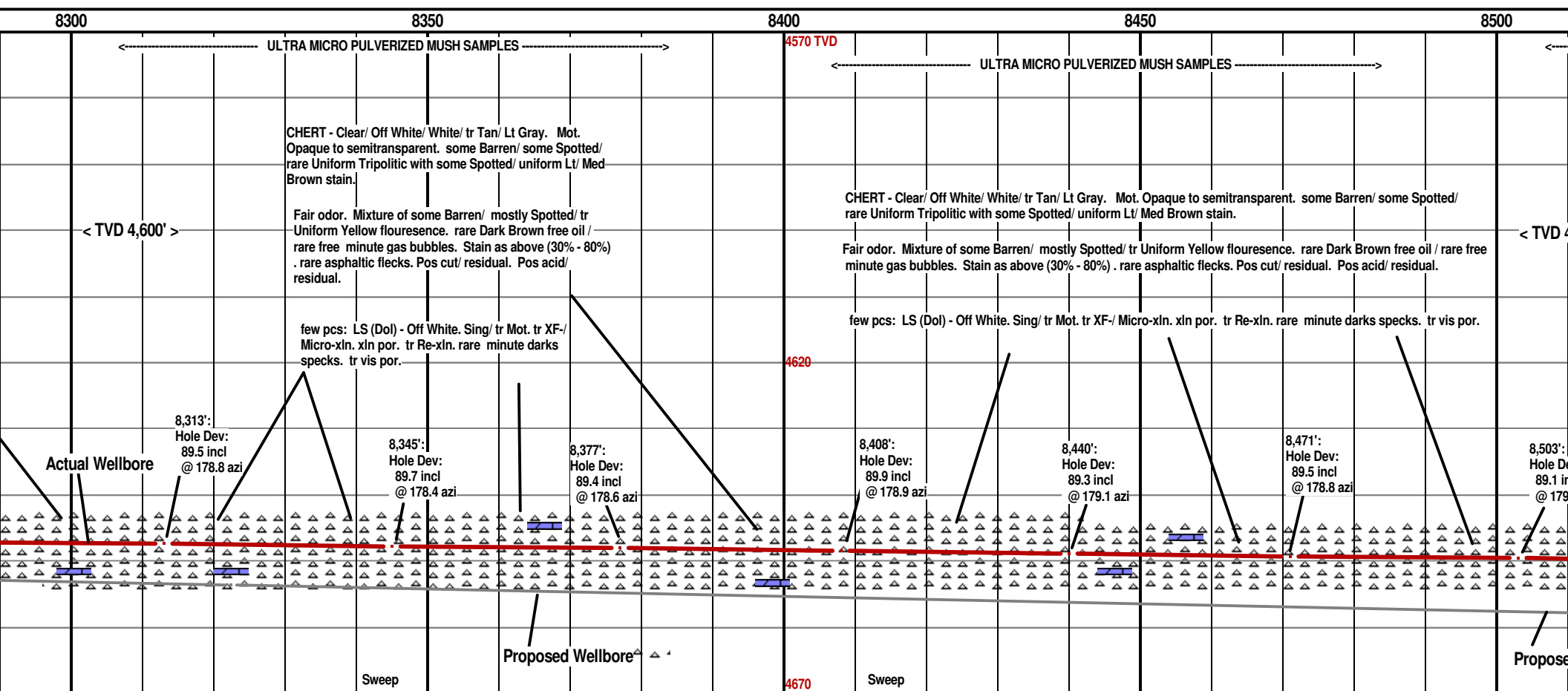
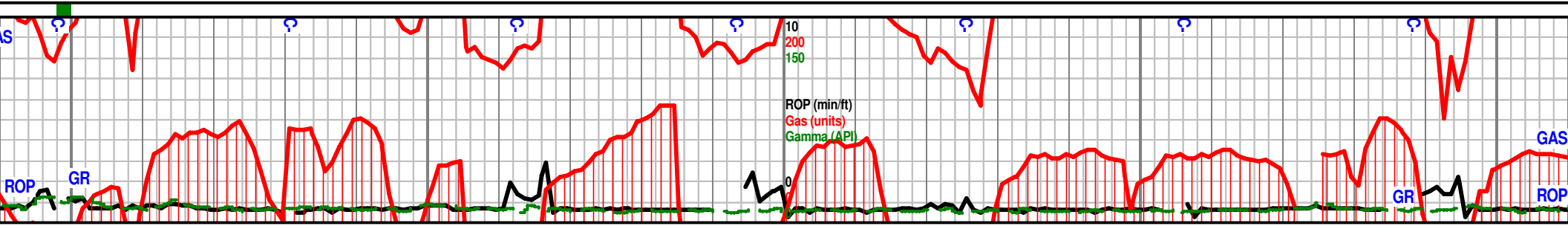
Sweep

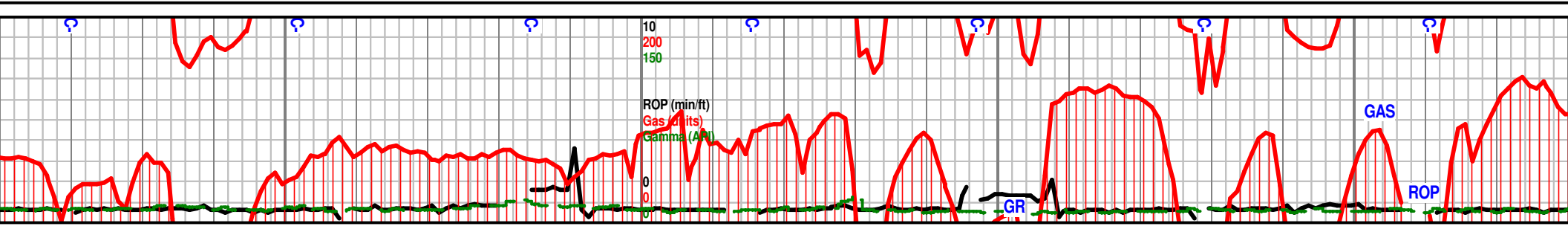
4670

4670



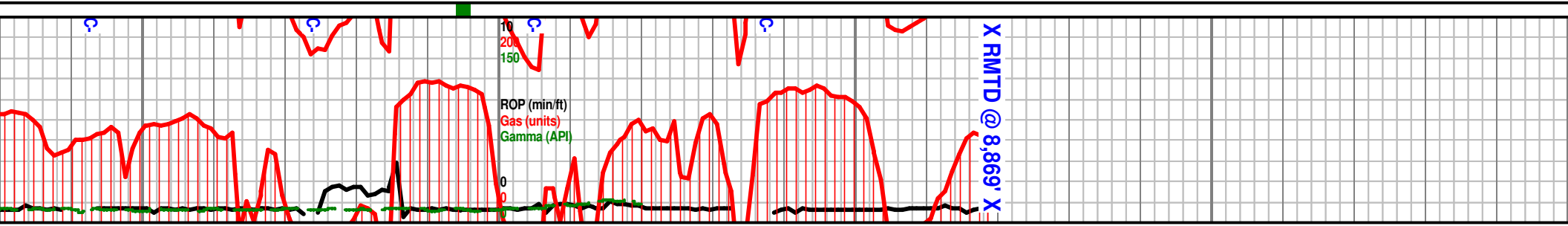






8550	8600	8650	8700
ULTRA MICRO PULVERIZED MUSH SAMPLES		ULTRA MICRO PULVERIZED MUSH SAMPLES	
CHERT - Clear/ Off White/ White/ tr Tan/ Lt Gray. Mot. Opaque to semitransparent. some Barren/ some Spotted/ rare Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.		CHERT - Clear/ Off White/ White/ tr Tan/ Lt Gray. Mot. Opaque to semitransparent. some Barren/ some Spotted/ some Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain.	
Fair odor. Mixture of some Barren/ mostly Spotted/ tr Uniform Yellow fluorescence. rare Dark Brown free oil / rare free minute gas bubbles. Stain as above (40% - 80%) . rare asphaltic flecks. Pos cut/ residual. Pos acid/ residual.		Fair odor. Mixture of some Barren/ mostly Spotted/ tr Uniform Yellow fluorescence. rare Dark Brown free oil / rare free minute gas bubbles. Stain as above (40% - 80%) . rare asphaltic flecks. Pos cut/ residual. Pos acid/ residual.	
few pcs: LS (Dol) - Off White. Sing/ tr Mot. tr XF/ Micro-xln. xln por. tr Re-xln. rare minute darks specks. tr vis por.		few pcs: LS (Dol) - Off White. Sing/ tr Mot. tr XF/ Micro-xln. xln por. tr Re-xln. rare minute darks specks. tr vis por.	
8,535': Hole Dev: 89.3 incl @ 179.1 azi	8,567': Hole Dev: 89.6 incl @ 179.3 azi	8,598': Hole Dev: 89.3 incl @ 179.1 azi	8,630': Hole Dev: 89.5 incl @ 179.4 azi
8,662': Hole Dev: 89.0 incl @ 179.9 azi	8,694': Hole Dev: 89.1 incl @ 179.9 azi	8,725': Hole Dev: 89.3 incl @ 179.9 azi	
Actual Wellbore	Actual Wellbore	Actual Wellbore	Actual Wellbore
		Proposed Wellbore	





8750 8800 8850 8900 8950

RA MICRO PULVERIZED MUSH SAMPLES

4570 TVD
ULTRA MICRO PULVERIZED MUSH SAMPLES

8,869' - Vis: 25 Wt: 8.3 Wtr Loss: NC PV: 1
YP: 1 Gels: 1/1 pH: 7.0 LCM: 0 Cl (1,300) Ca
(480) Solids: 1.0%

See Geolog 1 for Vertical & Radial
Portion (3,540' - 5,214' MD) of this Well

See this Geolog 2 for Radial & Horizontal
Portion from 3,700' MD to horizontal RTD.

White/ White/ tr Tan/ Lt Gray. Mot. Opaque to semitransparent. some Barren/ some Spotted/ some Uniform
e Spotted/ uniform Lt/ Med Brown stain.

Projected to 8,869' --
TVD 4,655.2'
88.6 inclination
180.0 azimuth

RMTD @ 8,869'

of some Barren/ mostly Spotted/ tr Uniform Yellow fluorescence. rare Dark Brown free oil / rare free minute
as above (40% - 88%) . rare asphaltic flecks. Pos cut/ residual. Pos acid/ residual.

TUCKER B #5-H
250' FNL & 425' FEL 11 - T34S -R11W
Barber County, Kansas

Off White. Sing/ tr Mot. tr XF-/ Micro-xln. xln por. tr Re-xln. rare minute darks specks. tr vis por.

Horizontal RTD (8,869'MD) reported to be
4,968.5' FNL & 434.8' FEL of surface coordinates.

Dev:
incl
9.6 azi

8,757':
Hole Dev:
89.6 incl
@ 179.9 azi

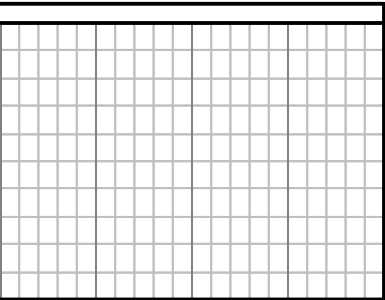
8,789':
Hole Dev:
88.6 incl
@ 180.3 azi

8,821':
Hole Dev:
88.6 incl
@ 180.1 azi

Actual
Wellbore

WOOLSEY OPERATING COMPANY
Wichita, Kansas

4670 Proposed Wellbore



50

Geolog 2

**Geologist:
Curtis Covey
COVEY - The Well Watchers
Well Number: 1,126B**

