

Company: LAMONT DOHERTY EARTH OBSERVATORY

Well: TW #3

Field: WILDCAT

County: ROCKLAND State: NEW YORK

**ACCELERATED POROSITY SONDE
PULSE NEUTRON POROSITY
GAMMA RAY**

County:	ROCKLAND	State:	NEW YORK
Well:	TW #3		
Field:	WILDCAT		
Location:	LAT: 41.00398 LONG: -73.91268	Elev.:	K.B. 380.00 ft G.L. 380.00 ft D.F. 380.00 ft
Well:	TW #3		
Company:	LAMONT DOHERTY EARTH OBSERVATORY		
Location:	Permanent Datum: _____ Log Measured From: _____ Drilling Measured From: _____	Ground Level _____ Ground Level _____ Ground Level _____	Elev.: _____ 0.00 ft above Perm.Datum
API Serial No.	31-087-27015-00-00	Section: 1	Township: ORANGETOWN Quadrangle NYACK
Logging Date	02-Oct-2013		

Run Number	1A
Depth Driller	1500.00 ft
Schlumberger Depth	1500.00 ft
Bottom Log Interval	1469.00 ft
Top Log Interval	20.00 ft
Casing Driller Size @ Depth	7 in @ 23.00 ft
Casing Schlumberger	20 ft
Bit Size	6.25 in
Type Fluid In Hole	Air
Density	0.01 lbm/gal
Fluid Loss	PH
Source of Sample	Active Tank
RM @ Meas Temp	500 ohm.m @ 68 degF
RMF @ Meas Temp	NAN ohm.m @ 68 degF
RMC @ Meas Temp	
Source RMF	Calculated
RM @ BHT	553.28 @ 60.8 NAN @ 60.8
Max Recorded Temperatures	60.8 degF
Circulation Stopped	Time
Logger on Bottom	Time
Unit Number	Location:
Recorded By	
Witnessed By	

Disclaimer

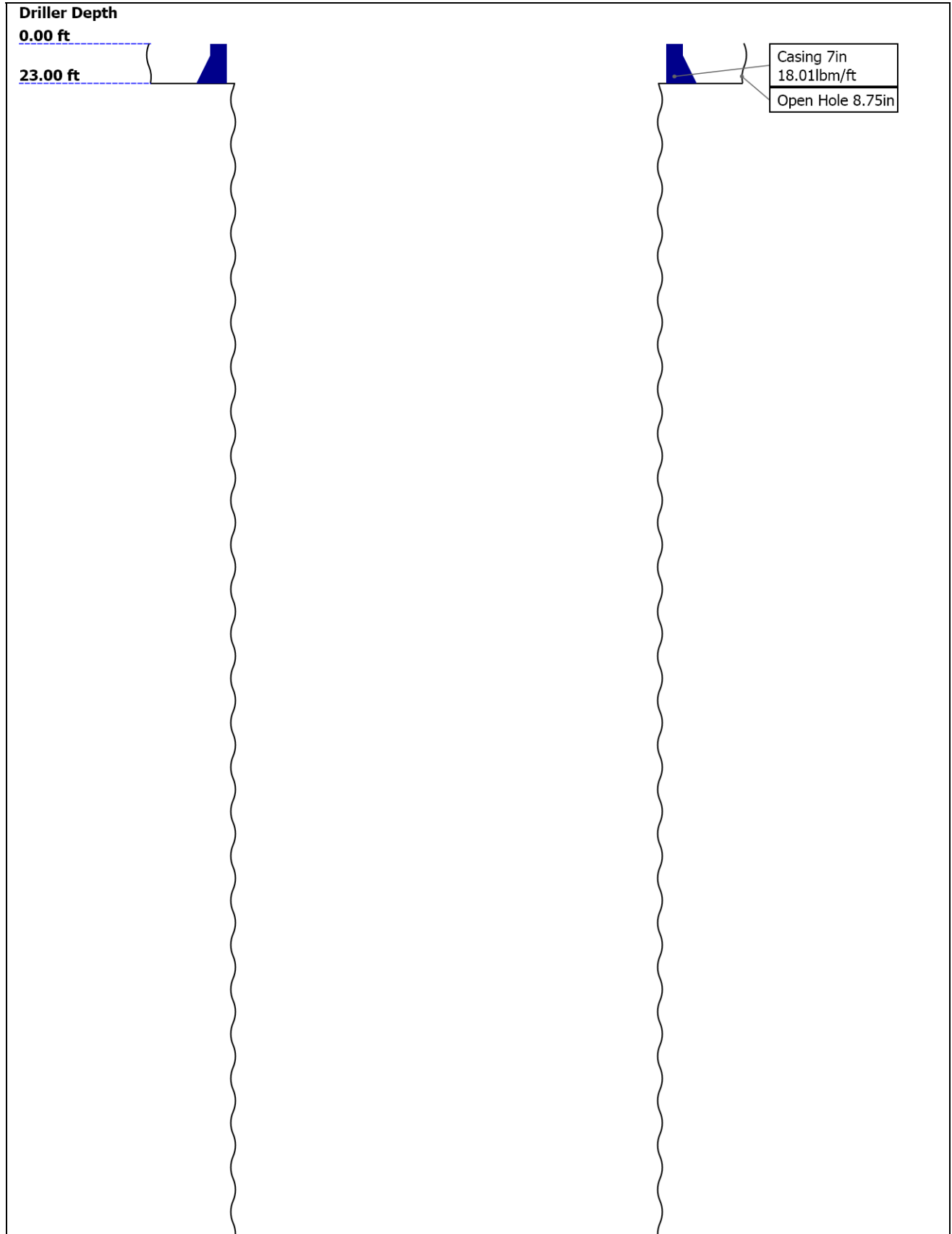
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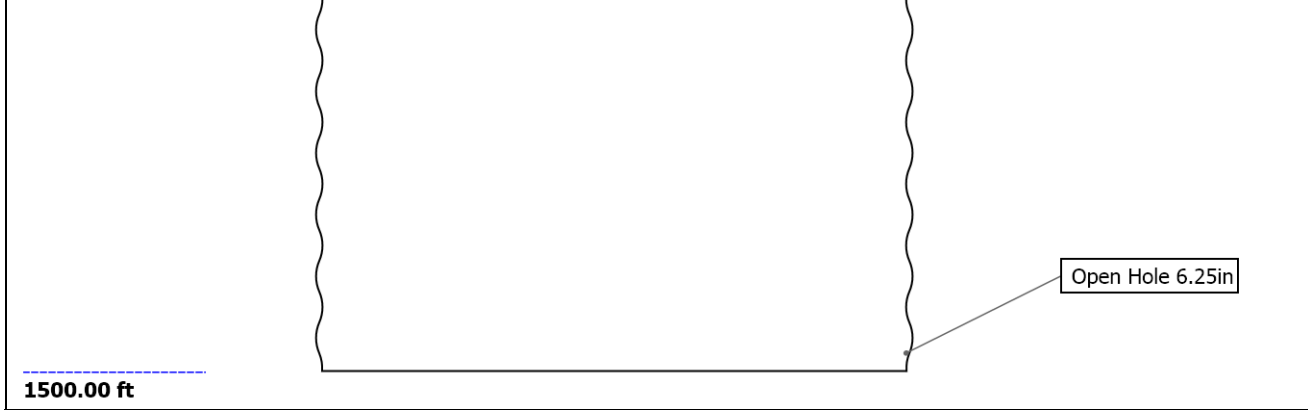
Contents

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Header 2. Disclaimer 3. Contents 4. Well Sketch 5. Borehole Size/Casing/Tubing Record 6. Operational Run Summary 7. Borehole Fluids 8. Remarks and Equipment Summary 9. Depth Summary 10. Survey Record 11. 1A MAIN PASS 1" <ol style="list-style-type: none"> 11.1 Integration Summary 11.2 Software Version 11.3 Composite Summary 11.4 Log (STANDARD APS 5IN) 11.5 Parameter Listing 12. 1A MAIN PASS 2" | <ol style="list-style-type: none"> 13.2 Software Version 13.3 Composite Summary 13.4 Log (STANDARD APS 5IN) 13.5 Parameter Listing 14. 1A REPEAT PASS 5" <ol style="list-style-type: none"> 14.1 Integration Summary 14.2 Software Version 14.3 Composite Summary 14.4 Log (STANDARD APS 5IN) 14.5 Parameter Listing 15. Calibration Report 16. Tail |
|---|---|

- 12.1 Integration Summary
- 12.2 Software Version
- 12.3 Composite Summary
- 12.4 Log (STANDARD APS 5IN)
- 12.5 Parameter Listing
- 13. 1A MAIN PASS 5"
- 13.1 Integration Summary

Well Sketch





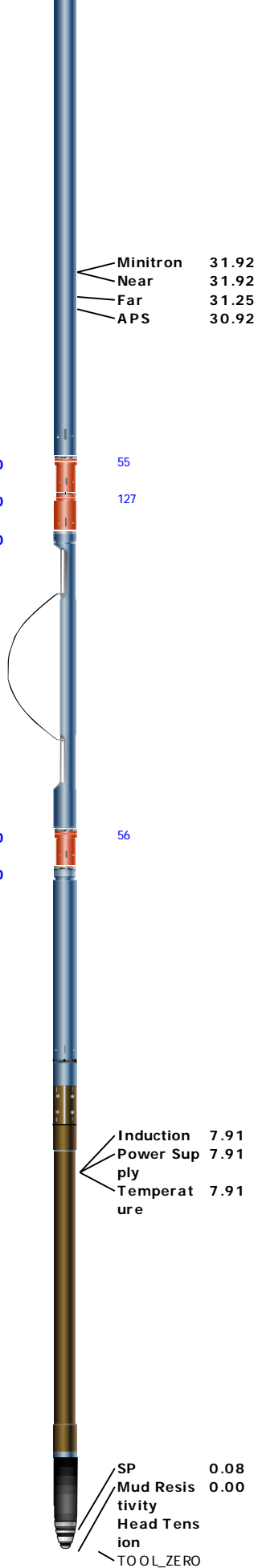
Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	8.75	6.25				
Top Driller (ft)	0	23				
Top Logger (ft)	0	23				
Bottom Driller (ft)	23	1500				
Bottom Logger (ft)	23	1500				
Casing						
Size (in)	7					
Weight (lbm/ft)	18.01					
Inner Diameter (in)	6.512					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	23					
Bottom Logger (ft)	20					

Operational Run Summary

Parameter (unit)	1A					
Date Log Started	02-Oct-2013					
Time Log Started	11:05:45					
Date Log Finished	02-Oct-2013					
Time Log Finished	13:04:42					
Top Log Interval (ft)	20.00					
Bottom Log Interval (ft)	1469.00					
Total Depth (ft)	1500.00					
Max Hole Deviation (deg)	4.99					
Azimuth of Max Deviation (deg)	98.73					
Bit Size (in)	6.250					
Logging Unit Number	377					
Logging Unit Location	BRADFORD					
Recorded By	TIMOTHY ZOTARA					
Witnessed By	NICK MALKEWICZ / DAN COLLINS					

MINTRON RUN TO NEAR SURFACE
 AIT-COMPUTE BOREHOLE SIZE
 AIT RUN W/O STANDOFFS
 MINTRON AUTO OFF @ 50', SHUTDOWN SET TO 10'
 FLUID LEVEL IDENTIFIED @ 350', TENS / SONIC, PARAMETERS FD & FLUID TYPE ZONED
 MRT FROM EDTC CTEM
 MATRIX = SANDSTONE / MDEN = 2.65G/C3, SONIC MD = 55.5US/FT
 LOGS AQUIRED @ 1800'/HR
 APS POROSITY CHANNELS PRESENTED IN FLUID / AIR
 TOOLS RUN ECCENTERED W/ILE



AH-190[2] 27.00
 AH-191 26.00
 ILE-D 25.00

AH-190[1] 17.00
 AIT-M:275 16.00
 AMIS:275
 AMRM:275

Induction 7.91
 Power Supply 7.91
 Temperature 7.91

SP 0.08
 Mud Resistivity 0.00
 Head Tension
 TOOL_ZERO

Lengths are in ft
 Maximum Outer Diameter = 5.000 in
 Line: Sensor Location, Value: Gating Offset
 All measurements are relative to TOOL_ZERO

Depth Summary

Depth Control Parameters	1A		
Conveyance Type	Wireline		
Log Sequence	SUBSEQUENT LOG IN WELL		
Stretch Correction (ft)	1.00		
Tool Zero Reference Check at Surface (ft)	0.50		
Reference Log Date	30-Aug-2010		
Reference Log Name	USGS MFT		
Reference Log Run Number	4		
Rig Type	MAST		
Depth Remark Parameters	1A		
Depth Remark 1	ALL DEPTH CONTROL POLICIES FOLLOWED		
Depth Remark 2	IDW USED AS PRIMARY DEPTH CONTROL		
Depth Remark 3	DRUM COUNTER USED AS SECONDARY DEPTH CONTROL		
Depth Remark 4	TOOLS ZEROED @ HEAD @ GL		
Depth Remark 5	RUN1A-C REFERENCED TO		
Depth Remark 6	CLIENT REQUEST CORRELATION TO USGS LAS DATA, NOT LDP		
Depth Measuring Device	1A		
Type	IDW-B		
Serial Number	6204		
Calibration Date	27-JUN-2013		
Calibrator Serial Number	33		
Calibration Cable Type	7-39P-LXS		
Wheel Correction 1	1		
Wheel Correction 2	0		
Tension Device	1A		
Type	CMTD-B/A		
Serial Number	2013		
Calibration Date	03-SEP-2013		
Calibrator Serial Number	412906		
Calibration Points	10		
Calibration RMS	7		
Calibration Peak Error	16		
Logging Cable	1A		
Type	7-39P-LXS		
Serial Number	710017		
Logging Cable Length (ft)	5500.00		

Survey Record

Survey Calculation					
Method :	Minimum Radius of Curvature	DLS Method :	Lubinski		
North Reference :	True North	Total Correction Formula :	Magnetic Dec		
Rig Location					
Latitude :	41.003980 degrees	Longitude :	-73.912680 degrees		
Tie In Point					
Measured Depth:	20.00 ft	Inclination:	0.00 deg	Azimuth:	0.00 deg
True Vertical Depth:	20.00 ft	North Displacement:	0.00 ft	East Displacement:	0.00 ft
Survey Quality Index					
9 : Manual		28 : Tie-In Point			

Survey Correction Index

0 : No correction

Survey Description Index

0 : Not Flagged Survey

Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/ -S (ft)	E/ -W (ft)	Closure (ft)	at Azim (deg)	DLS deg/100ft	Tool Type	QI	CI	DI
1	20.00	0.00	0.00	----	20.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP	28	0	0
2	64.00	0.17	348.57	44.00	64.00	0.07	0.07	-0.01	0.07	348.57	0.40	GPIT-F	9	0	0
3	94.00	0.09	44.83	30.00	94.00	0.13	0.13	-0.01	0.13	357.50	0.48	GPIT-F	9	0	0
4	124.00	0.34	99.41	30.00	124.00	0.13	0.13	0.10	0.16	37.60	1.00	GPIT-F	9	0	0
5	154.00	0.24	135.02	30.00	154.00	0.07	0.07	0.23	0.23	73.03	0.68	GPIT-F	9	0	0
6	184.00	0.23	88.47	30.00	184.00	0.03	0.03	0.34	0.33	85.15	0.61	GPIT-F	9	0	0
7	214.00	0.16	123.30	30.00	214.00	0.01	0.01	0.43	0.43	89.15	0.44	GPIT-F	9	0	0
8	244.00	0.32	86.41	30.00	244.00	-0.01	-0.01	0.55	0.56	91.24	0.72	GPIT-F	9	0	0
9	274.00	0.51	106.53	30.00	274.00	-0.04	-0.04	0.76	0.75	93.36	0.79	GPIT-F	9	0	0
10	304.00	0.62	107.85	30.00	304.00	-0.13	-0.13	1.05	1.05	97.23	0.37	GPIT-F	9	0	0
11	334.00	0.84	108.18	30.00	333.99	-0.25	-0.25	1.41	1.44	100.11	0.73	GPIT-F	9	0	0
12	364.00	0.78	104.73	30.00	363.99	-0.37	-0.37	1.82	1.87	101.57	0.26	GPIT-F	9	0	0
13	394.00	0.95	105.98	30.00	393.99	-0.49	-0.49	2.26	2.30	102.33	0.55	GPIT-F	9	0	0
14	424.00	1.03	104.83	30.00	423.98	-0.63	-0.63	2.76	2.82	102.88	0.28	GPIT-F	9	0	0
15	454.00	1.19	98.16	30.00	453.98	-0.74	-0.74	3.32	3.41	102.61	0.68	GPIT-F	9	0	0
16	484.00	1.37	98.39	30.00	483.97	-0.84	-0.84	3.99	4.07	101.90	0.61	GPIT-F	9	0	0
17	514.00	1.11	104.62	30.00	513.96	-0.97	-0.97	4.62	4.72	101.80	0.97	GPIT-F	9	0	0
18	544.00	1.61	101.35	30.00	543.95	-1.12	-1.12	5.32	5.45	101.92	1.67	GPIT-F	9	0	0
19	574.00	1.42	98.30	30.00	573.94	-1.26	-1.26	6.10	6.23	101.66	0.67	GPIT-F	9	0	0
20	604.00	1.75	98.56	30.00	603.93	-1.38	-1.38	6.92	7.05	101.28	1.10	GPIT-F	9	0	0
21	634.00	1.79	90.65	30.00	633.92	-1.45	-1.45	7.84	7.97	100.50	0.83	GPIT-F	9	0	0
22	664.00	1.79	98.29	30.00	663.90	-1.53	-1.53	8.78	8.89	99.87	0.79	GPIT-F	9	0	0
23	694.00	1.84	95.04	30.00	693.89	-1.64	-1.64	9.72	9.84	99.56	0.39	GPIT-F	9	0	0
24	724.00	1.72	98.30	30.00	723.87	-1.74	-1.74	10.64	10.79	99.31	0.53	GPIT-F	9	0	0
25	754.00	2.02	102.49	30.00	753.86	-1.92	-1.92	11.61	11.78	99.41	1.09	GPIT-F	9	0	0
26	784.00	2.26	112.58	30.00	783.84	-2.26	-2.26	12.67	12.86	100.14	1.48	GPIT-F	9	0	0
27	814.00	2.43	105.96	30.00	813.81	-2.67	-2.67	13.82	14.07	100.92	1.08	GPIT-F	9	0	0
28	844.00	2.54	97.72	30.00	843.78	-2.93	-2.93	15.10	15.39	100.99	1.24	GPIT-F	9	0	0
29	874.00	2.56	93.22	30.00	873.75	-3.06	-3.06	16.42	16.70	100.55	0.67	GPIT-F	9	0	0
30	904.00	2.70	98.40	30.00	903.72	-3.20	-3.20	17.79	18.08	100.19	0.92	GPIT-F	9	0	0
31	934.00	3.30	97.42	30.00	933.68	-3.41	-3.41	19.35	19.65	100.01	2.01	GPIT-F	9	0	0
32	964.00	3.30	97.95	30.00	963.63	-3.65	-3.65	21.07	21.39	99.82	0.10	GPIT-F	9	0	0
33	994.00	3.79	97.67	30.00	993.57	-3.90	-3.90	22.90	23.23	99.66	1.63	GPIT-F	9	0	0
34	1024.00	4.33	95.66	30.00	1023.50	-4.14	-4.14	25.01	25.36	99.40	1.85	GPIT-F	9	0	0
35	1054.00	4.23	96.79	30.00	1053.41	-4.38	-4.38	27.24	27.59	99.14	0.43	GPIT-F	9	0	0
36	1084.00	4.32	100.31	30.00	1083.33	-4.72	-4.72	29.45	29.82	99.10	0.92	GPIT-F	9	0	0
37	1114.00	4.57	99.94	30.00	1113.24	-5.12	-5.12	31.74	32.15	99.17	0.83	GPIT-F	9	0	0
38	1144.00	4.87	98.51	30.00	1143.14	-5.52	-5.52	34.17	34.61	99.18	1.09	GPIT-F	9	0	0
39	1174.00	4.99	98.73	30.00	1173.03	-5.91	-5.91	36.72	37.20	99.14	0.40	GPIT-F	9	0	0
40	1204.00	4.70	101.63	30.00	1202.92	-6.35	-6.35	39.21	39.73	99.20	1.27	GPIT-F	9	0	0
41	1234.00	4.68	103.36	30.00	1232.82	-6.88	-6.88	41.60	42.16	99.39	0.47	GPIT-F	9	0	0
42	1264.00	4.54	103.74	30.00	1262.72	-7.45	-7.45	43.95	44.59	99.62	0.50	GPIT-F	9	0	0
43	1294.00	4.68	106.84	30.00	1292.63	-8.08	-8.08	46.27	46.98	99.91	0.96	GPIT-F	9	0	0
44	1324.00	4.83	108.15	30.00	1322.52	-8.83	-8.83	48.64	49.44	100.29	0.63	GPIT-F	9	0	0
45	1354.00	4.72	109.54	30.00	1352.42	-9.64	-9.64	51.01	51.90	100.70	0.54	GPIT-F	9	0	0
46	1384.00	4.62	111.28	30.00	1382.32	-10.49	-10.49	53.30	54.33	101.13	0.59	GPIT-F	9	0	0
47	1414.00	4.53	114.14	30.00	1412.22	-11.41	-11.41	55.50	56.66	101.62	0.81	GPIT-F	9	0	0
48	1444.00	4.46	113.40	30.00	1442.13	-12.36	-12.36	57.66	58.96	102.10	0.31	GPIT-F	9	0	0
49	1474.00	4.46	114.23	30.00	1472.04	-13.30	-13.30	59.79	61.25	102.54	0.22	GPIT-F	9	0	0

1A

MAIN PASS 1"

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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Software Version

Acquisition System		Version	
MaxWell		3.1.9755.0	
Application Patch		SP-20130325-3.1.9755.1799	
Tool Elements	Description	Software Version	Firmware Version
APS-C	Accelerator Porosity Sonde element - Version C	3.1.9755.1799	4.0
EDTC-B	Enhanced Digital Telemetry Cartridge - B	3.1.9755.0	

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
1A	Log[3]:Up	Up	33.77 ft	1509.48 ft	02-Oct-2013 12:09:27 PM	02-Oct-2013 1:00:37 PM	-0.52 ft	true

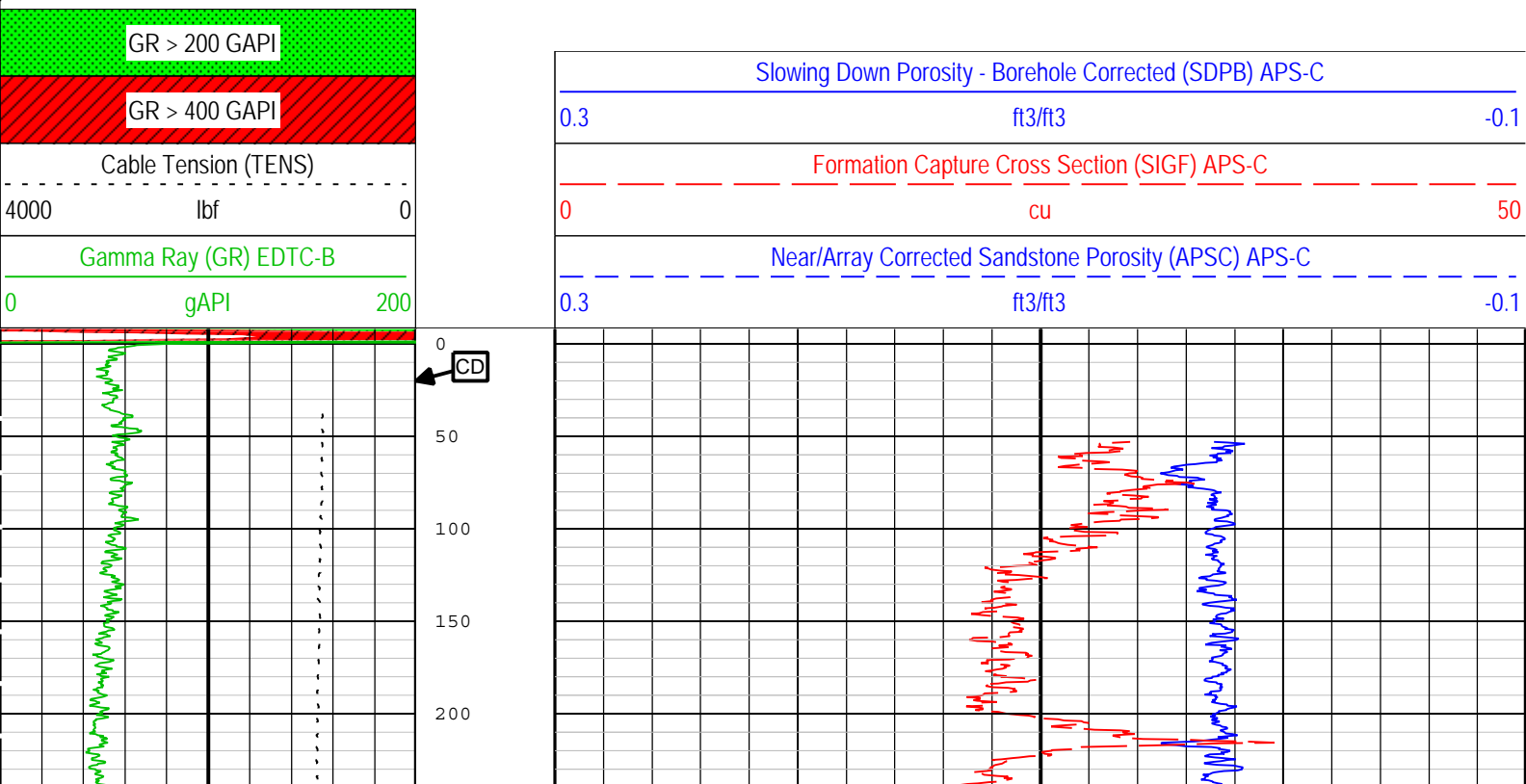
All depths are referenced to toolstring zero

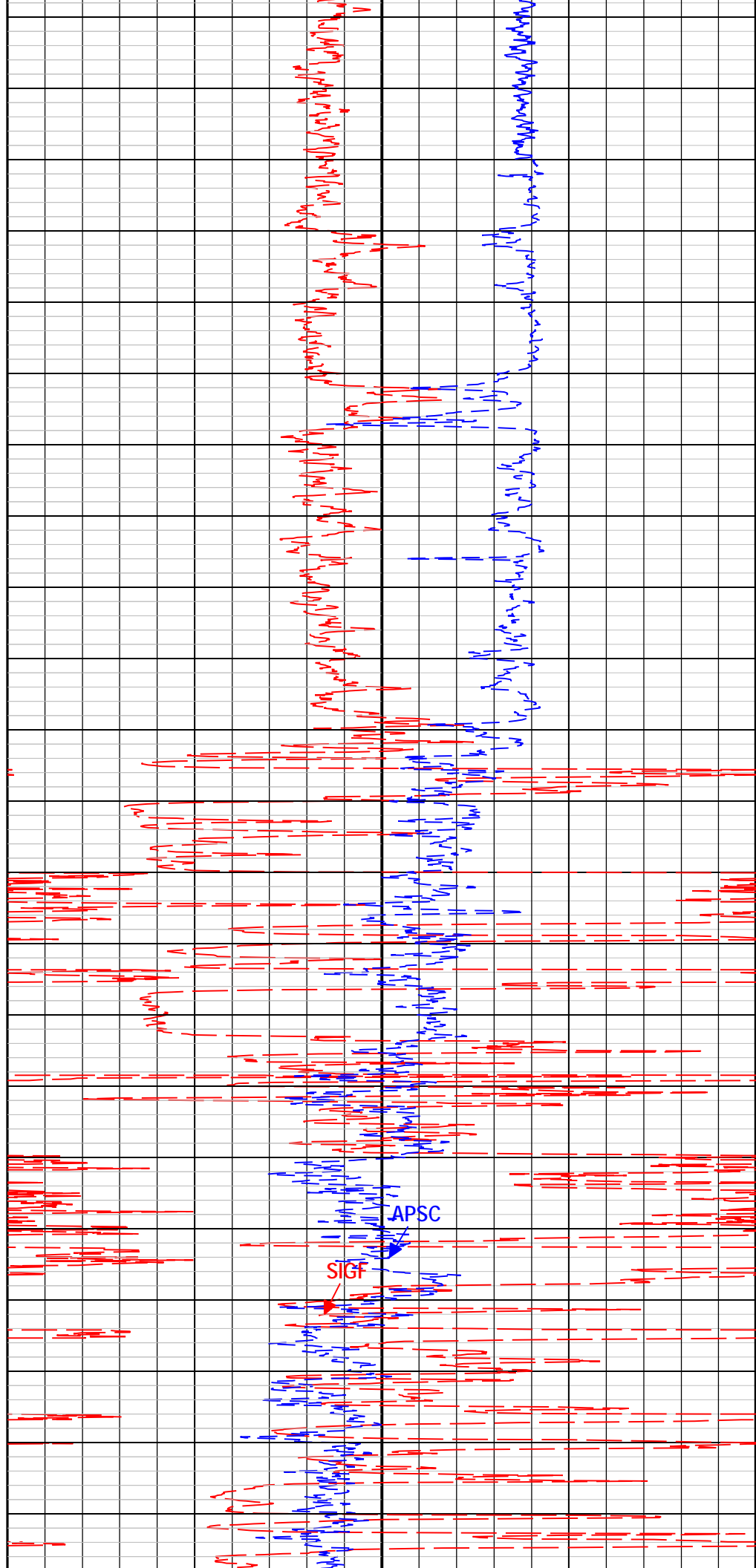
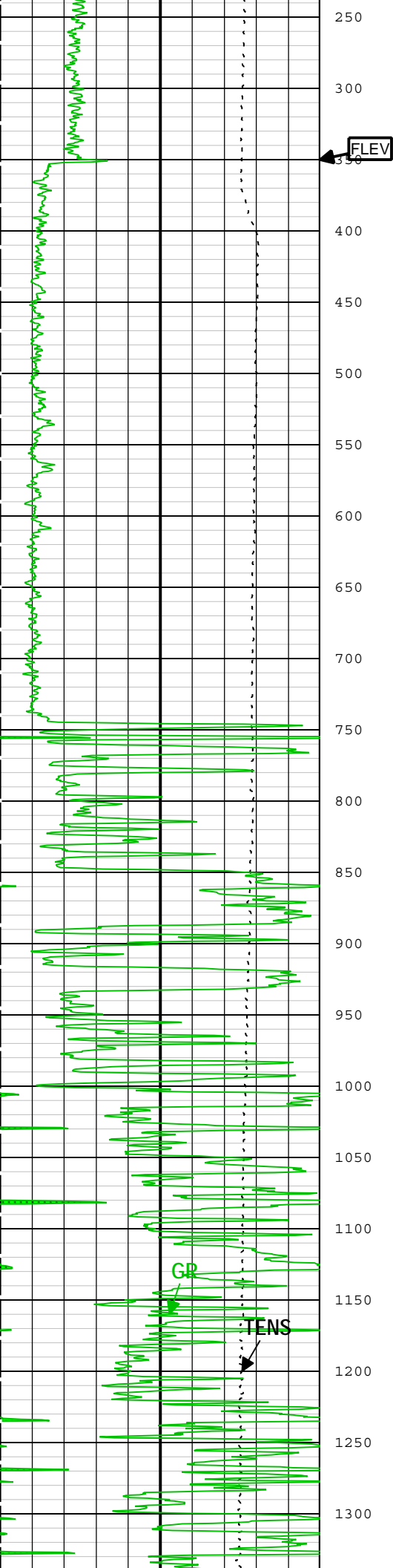
Log 1A: Log[3]:Up

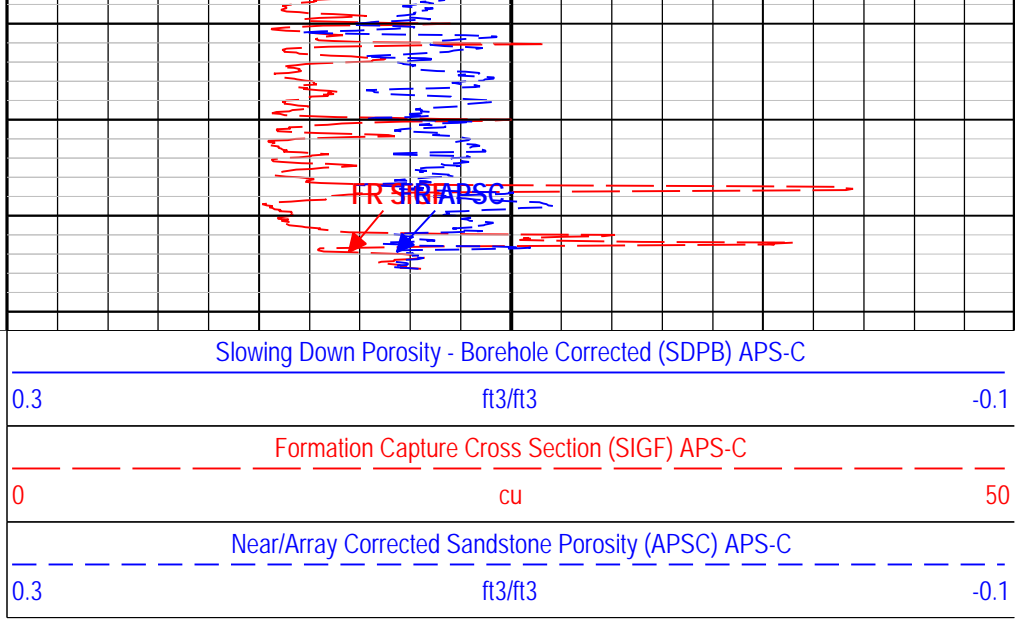
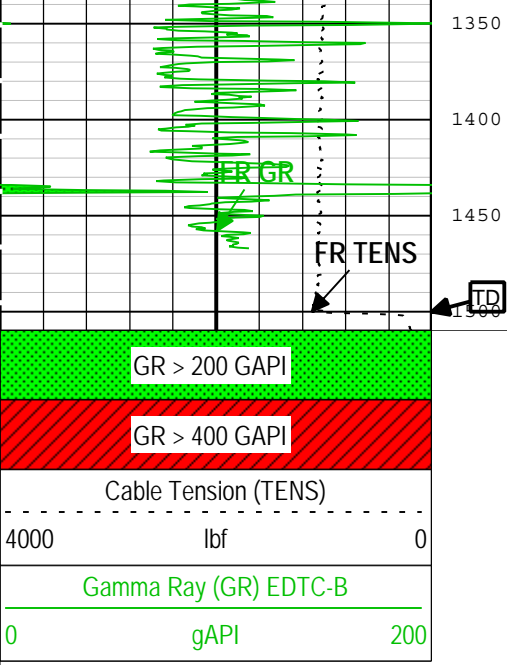
Description: Triple Combo standard resolution template for Platform Express Format: Log (STANDARD APS 5IN) Index Scale: 1 in per 100 ft Index Unit: ft
 Index Type: Measured Depth Creation Date: 03-Oct-2013 18:47:49

Channel	Source	Sampling
APSC	APS-C:APS-C:APS-C	6in
GR	EDTC-B:EDTC-B:EDTC-B	6in
SDPB	APS-C:APS-C:APS-C	6in
SIGF	APS-C:APS-C:APS-C	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

TIME_1900 - Time Marked every 60.00 (s)







TIME_1900 - Time Marked every 60.00 (s)

Description: Triple Combo standard resolution template for Platform Express Format: Log (STANDARD APS 5IN) Index Scale: 1 in per 100 ft Index Unit: ft
 Index Type: Measured Depth Creation Date: 03-Oct-2013 18:47:49

Channel Processing Parameters

Parameter	Description	Tool	Value	Unit
AHSS	Hole Size Correction Switch	APS-C	On	
ASOS	Standoff Correction Switch	APS-C	On	
ATSS	Temperature-Pressure-Salinity Correction Switch	APS-C	On	
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	60.8	degF
BS	Bit Size	WLSESSION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	0	ppm
CBLO	Casing Bottom (Logger)	WLSESSION	20	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	Depth Zoned	lbm/gal
DFT	Drilling Fluid Type	Borehole	Depth Zoned	
DFT_WATER	Drilling Fluid Water Type	Borehole	Fresh Water	
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	0	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	380	ft
FSAL	Formation Salinity	Borehole	0	ppm
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
PDAT	Permanent Datum	WLSESSION	GL	
SHT	Surface Hole Temperature	Borehole	68	degF
TBHDS	Tool Borehole Diameter Source	APS-C	BS	
TD	Total Measured Depth	Borehole	1500	ft
TNCO	Thermal Neutron Porosity Computation Option	APS-C	No	

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
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Parameter	Value	Start (ft)	Stop (ft)
BS	8.75	-8	23
BS	6.25	23	1509.5
DFD	0.01	-8	350
DFD	8.4	350	1509.5
DFT	Gas	-8	350
DFT	Water	350	1509.5

All depth are actual.

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h

1A

MAIN PASS 2"

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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Software Version

Acquisition System	Version		
MaxWell	3.1.9755.0		
Application Patch	SP-20130325-3.1.9755.1799		
Tool Elements	Description	Software Version	Firmware Version
APS-C	Accelerator Porosity Sonde element - Version C	3.1.9755.1799	4.0
EDTC-B	Enhanced Digital Telemetry Cartridge - B	3.1.9755.0	

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
1A	Log[3]:Up	Up	33.77 ft	1509.48 ft	02-Oct-2013 12:09:27 PM	02-Oct-2013 1:00:37 PM	-0.52 ft	true

All depths are referenced to toolstring zero

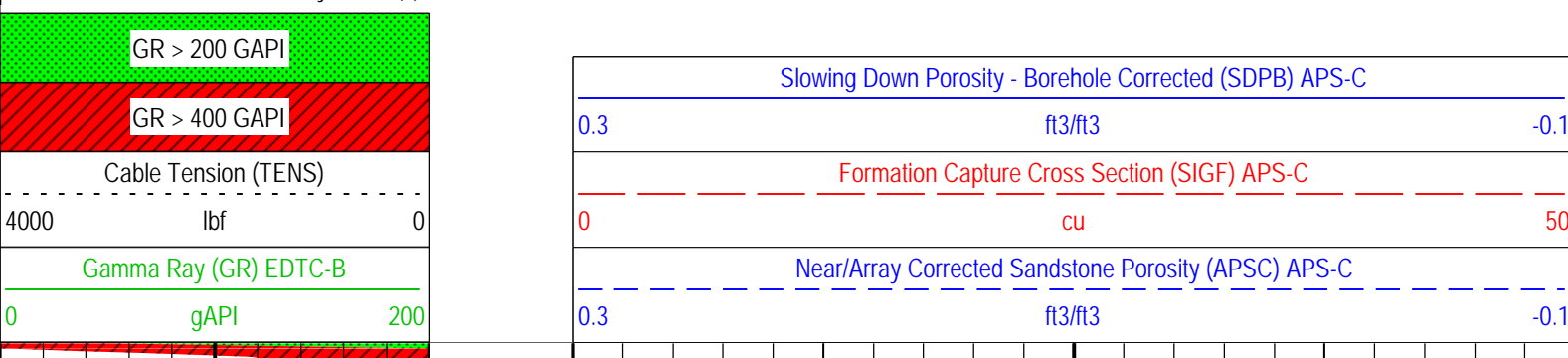
Log

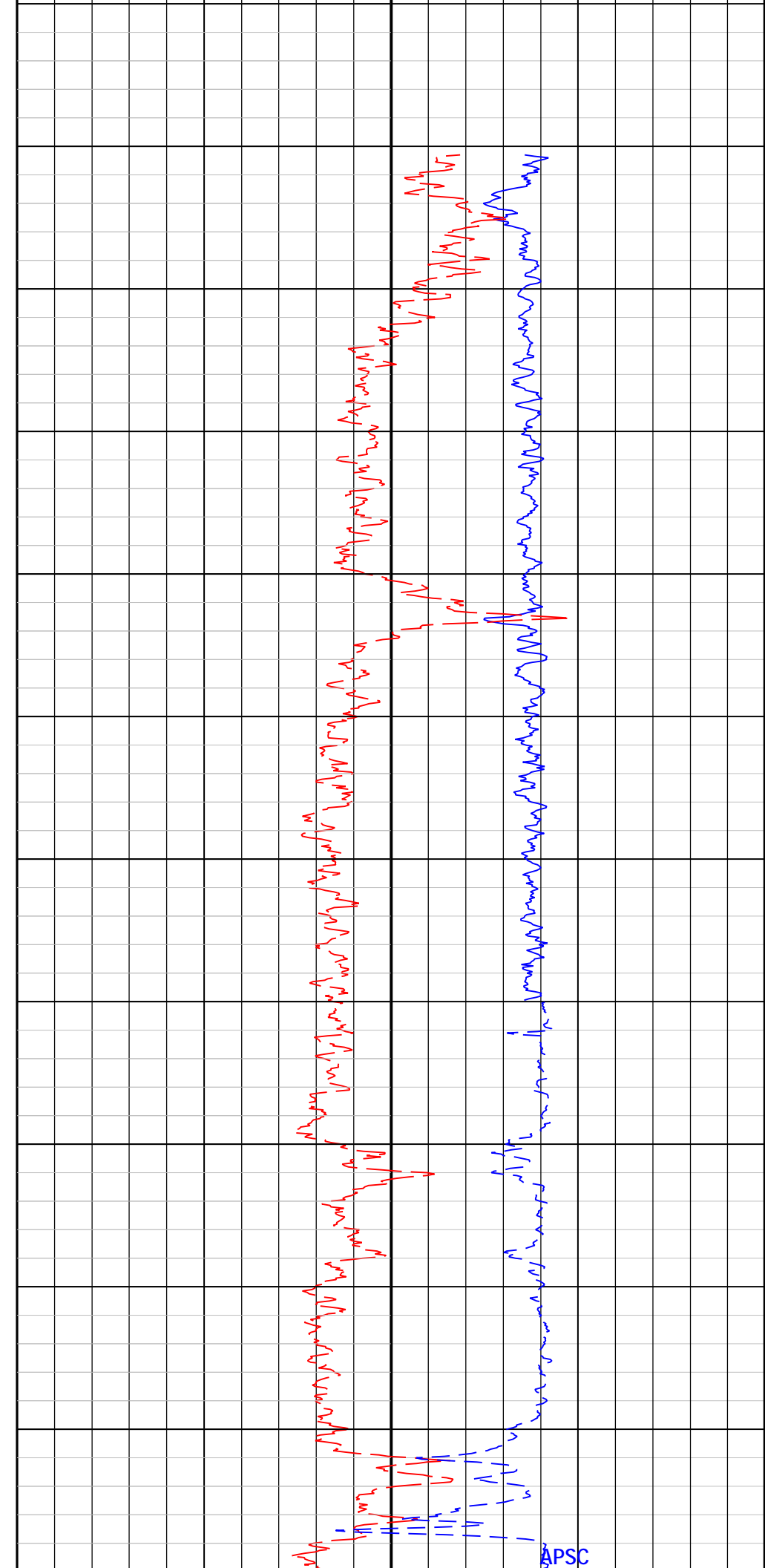
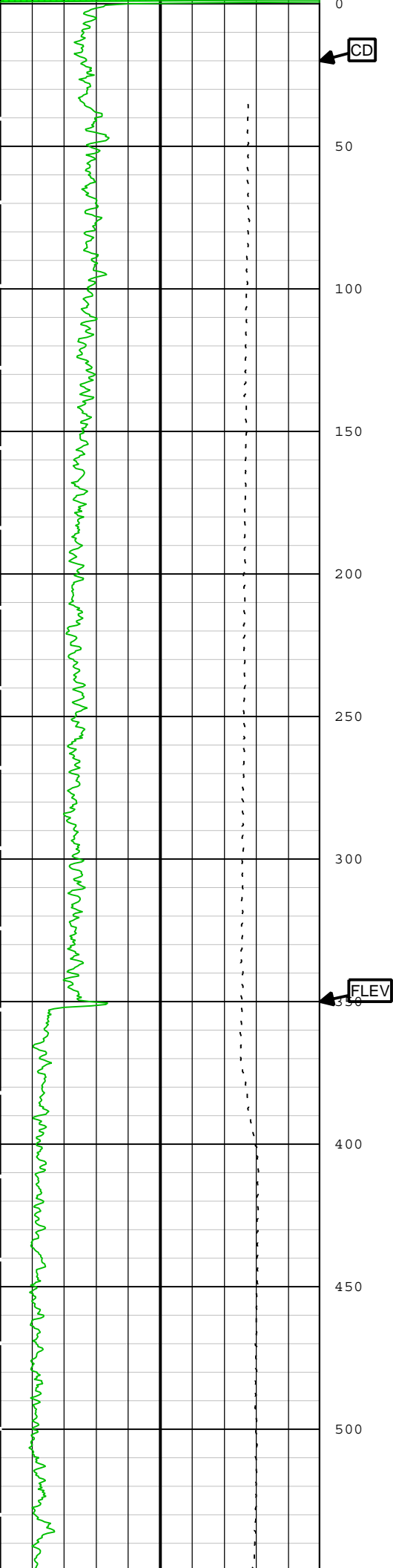
1A: Log[3]:Up

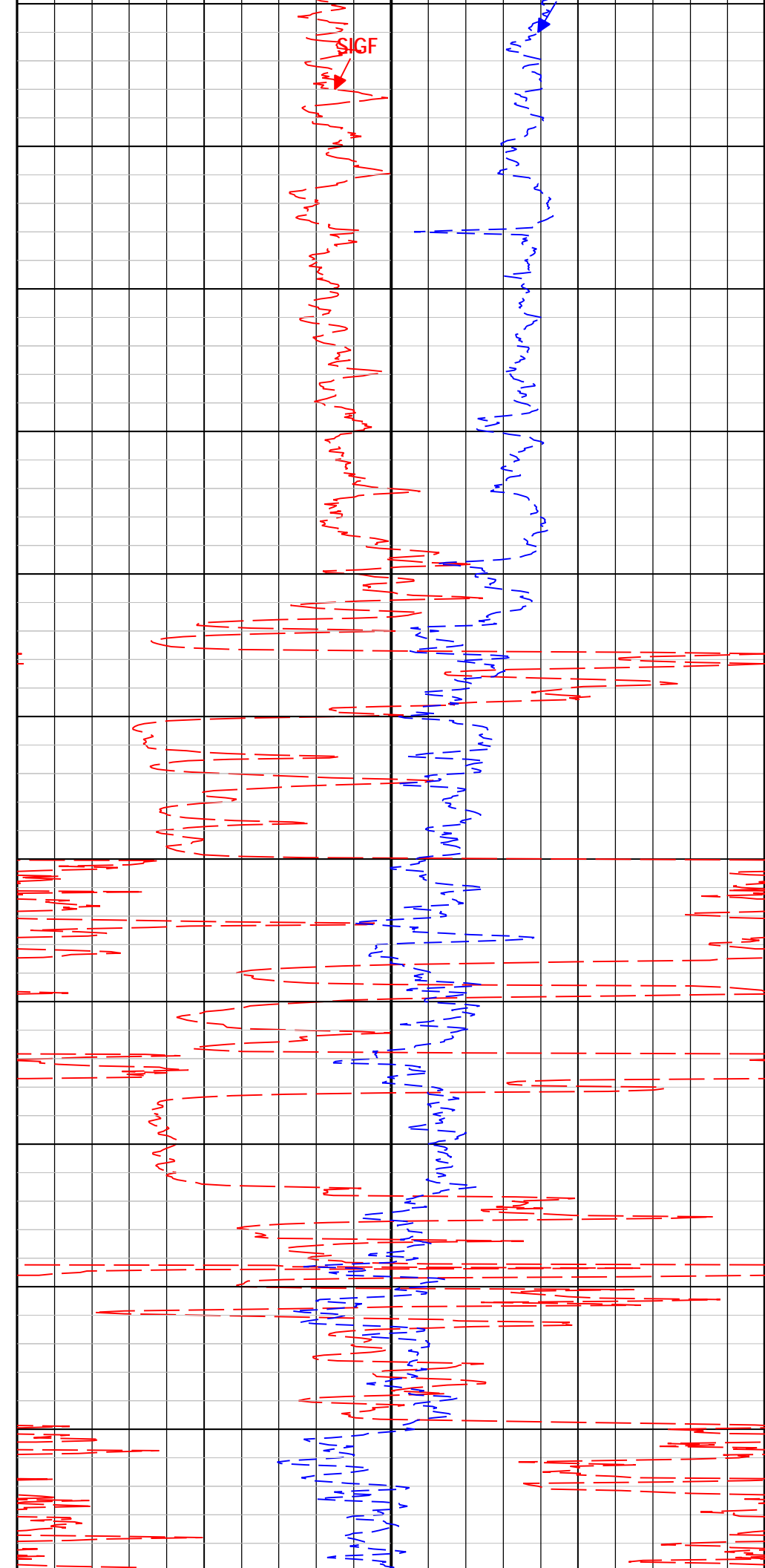
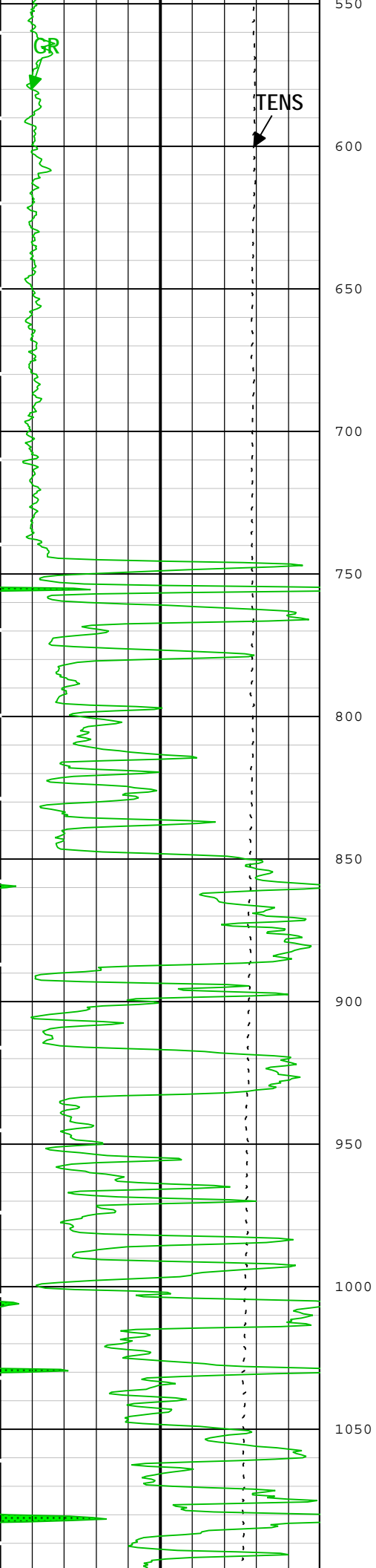
Description: Triple Combo standard resolution template for Platform Express Format: Log (STANDARD APS 5IN) Index Scale: 2 in per 100 ft Index Unit: ft
 Index Type: Measured Depth Creation Date: 03-Oct-2013 18:47:52

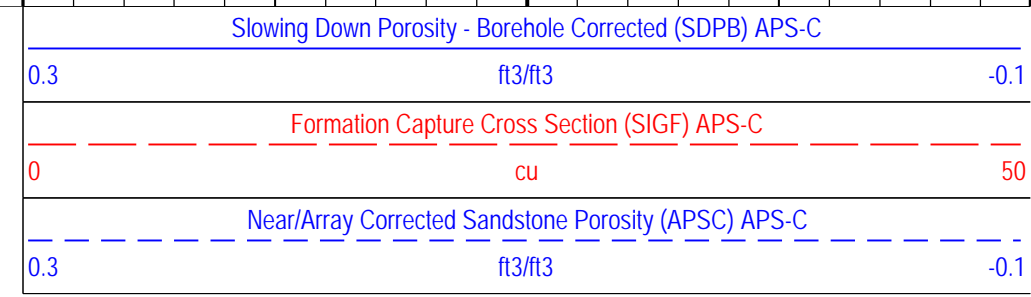
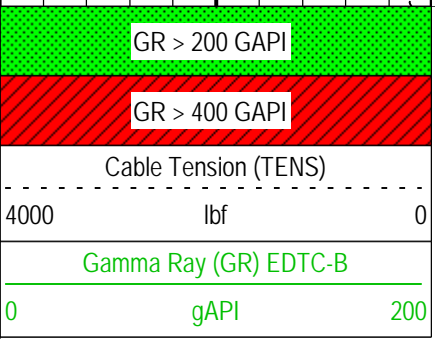
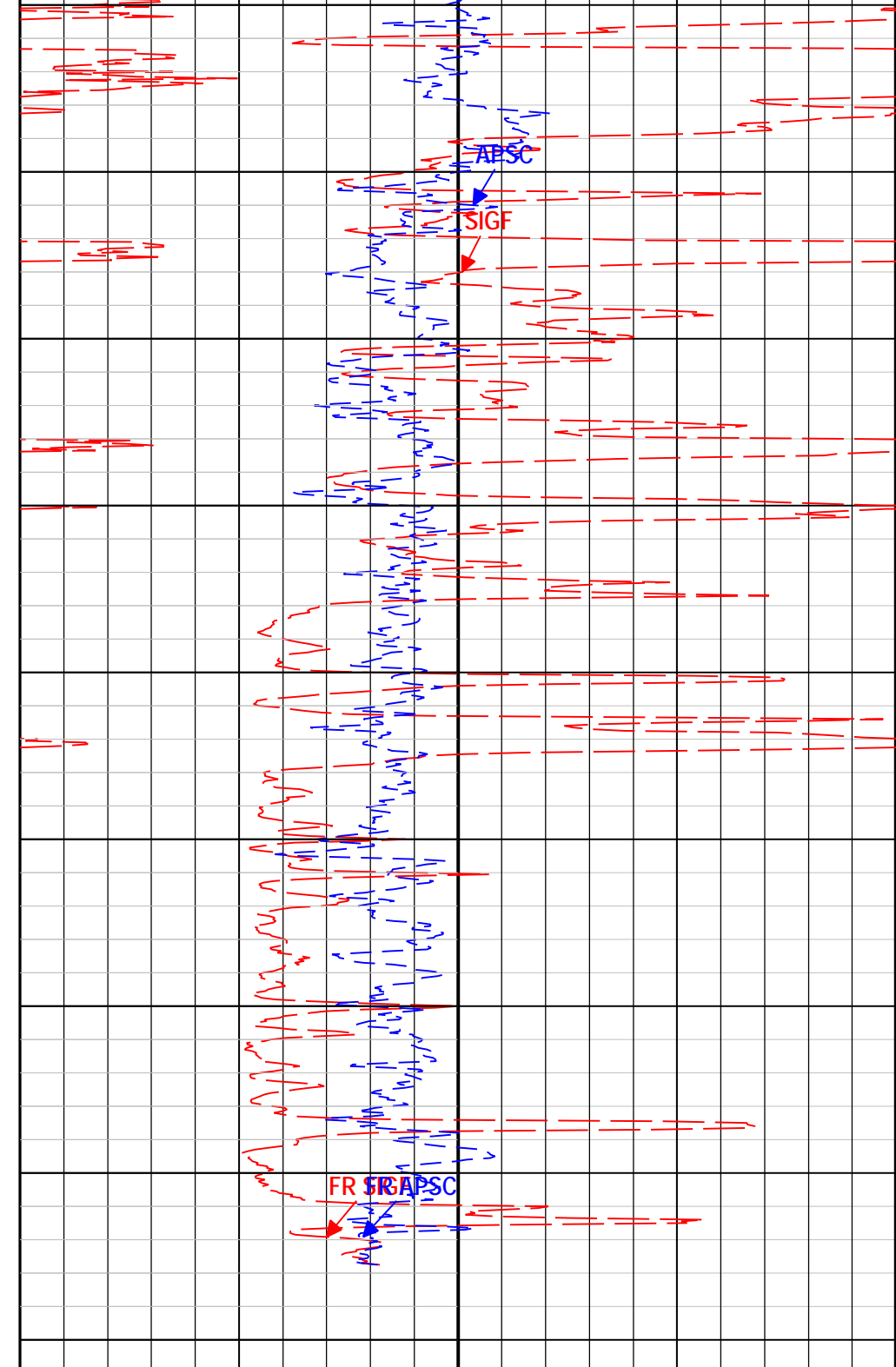
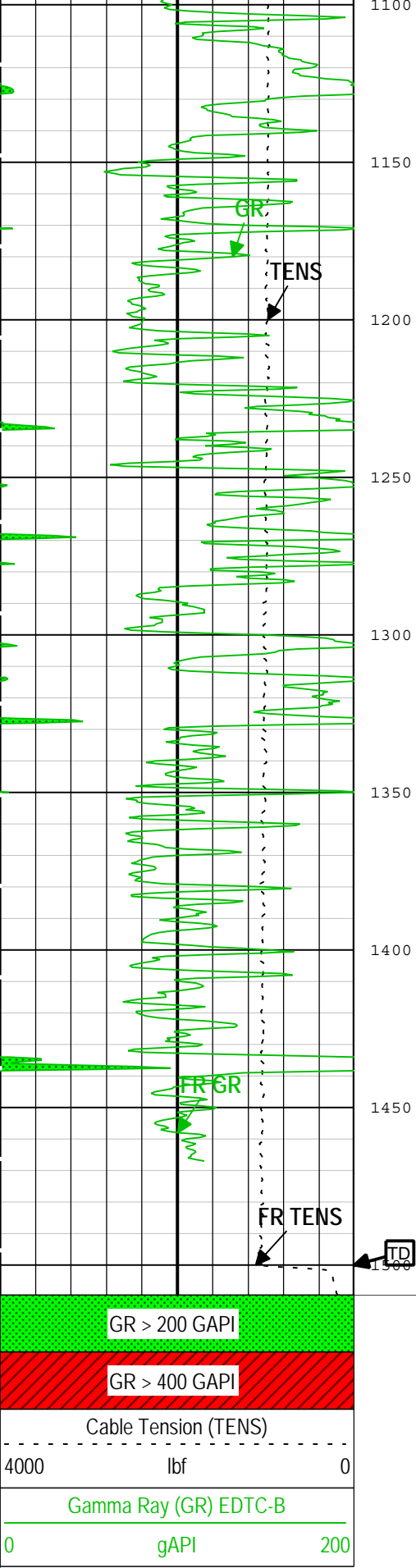
Channel	Source	Sampling
APSC	APS-C:APS-C:APS-C	6in
GR	EDTC-B:EDTC-B:EDTC-B	6in
SDPB	APS-C:APS-C:APS-C	6in
SIGF	APS-C:APS-C:APS-C	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

TIME_1900 - Time Marked every 60.00 (s)









Description: Triple Combo standard resolution template for Platform Express Format: Log (STANDARD APS 5IN) Index Scale: 2 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 03-Oct-2013 18:47:52

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit

AHSS	Hole Size Correction Switch	APS-C	On	
ASOS	Standoff Correction Switch	APS-C	On	
ATSS	Temperature-Pressure-Salinity Correction Switch	APS-C	On	
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	60.8	degF
BS	Bit Size	WLSESSION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	0	ppm
CBLO	Casing Bottom (Logger)	WLSESSION	20	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	Depth Zoned	lbm/gal
DFT	Drilling Fluid Type	Borehole	Depth Zoned	
DFT_WATER	Drilling Fluid Water Type	Borehole	Fresh Water	
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	0	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	380	ft
FSAL	Formation Salinity	Borehole	0	ppm
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
PDAT	Permanent Datum	WLSESSION	GL	
SHT	Surface Hole Temperature	Borehole	68	degF
TBHDS	Tool Borehole Diameter Source	APS-C	BS	
TD	Total Measured Depth	Borehole	1500	ft
TNCO	Thermal Neutron Porosity Computation Option	APS-C	No	

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	8.75	-8	23
BS	6.25	23	1509.5
DFD	0.01	-8	350
DFD	8.4	350	1509.5
DFT	Gas	-8	350
DFT	Water	350	1509.5

All depth are actual.

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h

1A

MAIN PASS 5"

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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Software Version

Acquisition System	Version
MaxWell	3.1.9755.0

Application Patch		SP-20130325-3.1.9755.1799	
SoftwareVersion_Tool	SoftwareVersion_Run Version	SoftwareVersion_Build Version	
WAFE-SEC	Synergy SV451EC version 8.10	Synergy SV451EC version 9.10	
WAFE-FEC	Synergy SV451EC version 8.10	Synergy SV451EC version 9.10	
WAFE-TMDI	Synergy SV451EC version 42.19	Synergy SV451EC version 44.19	
Tool Elements	Description	Software Version	Firmware Version
APS-C	Accelerator Porosity Sonde element - Version C	3.1.9755.1799	4.0
EDTC-B	Enhanced Digital Telemetry Cartridge - B	3.1.9755.0	

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
1A	Log[3]:Up	Up	33.77 ft	1509.48 ft	02-Oct-2013 12:09:27 PM	02-Oct-2013 1:00:37 PM	-0.52 ft	true

All depths are referenced to toolstring zero

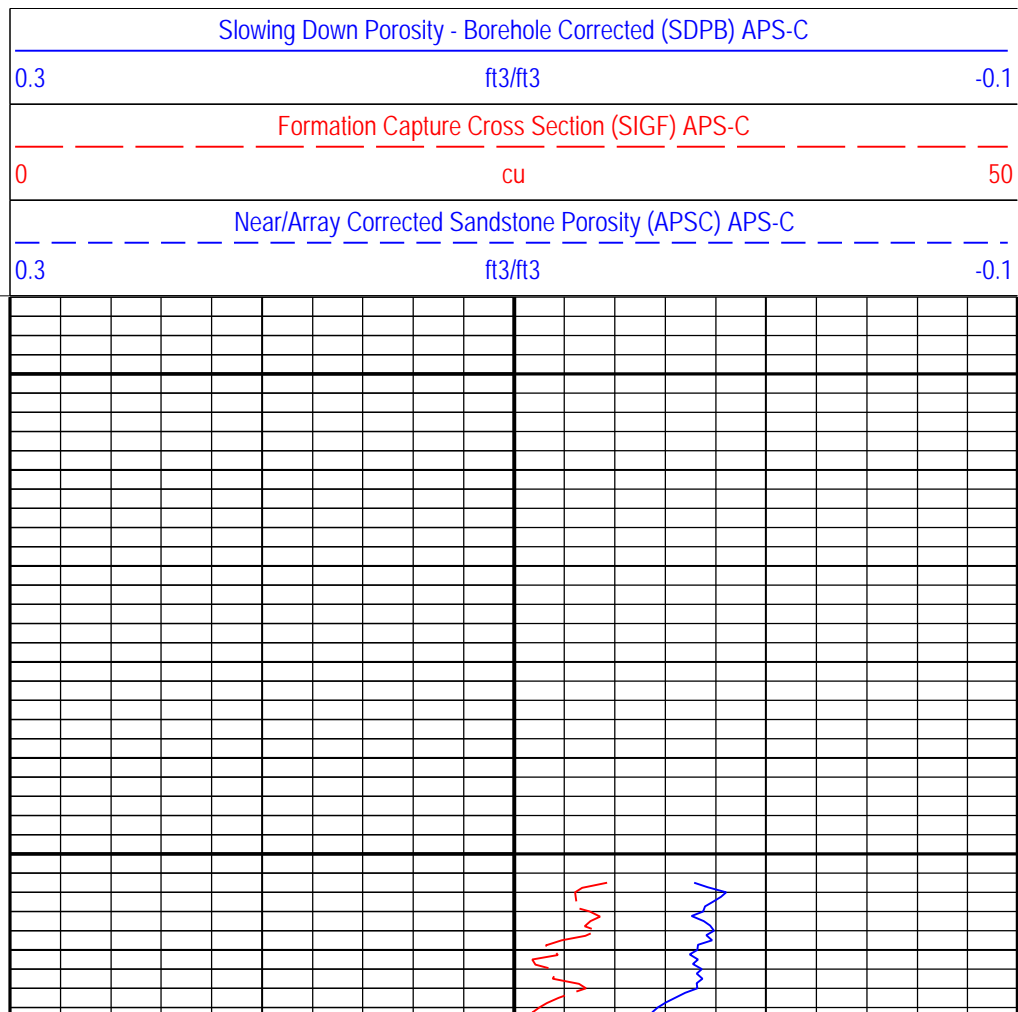
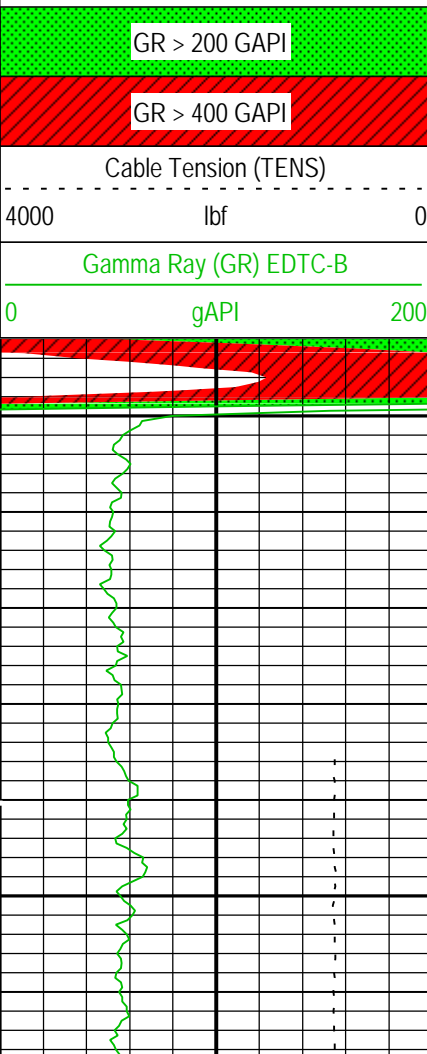
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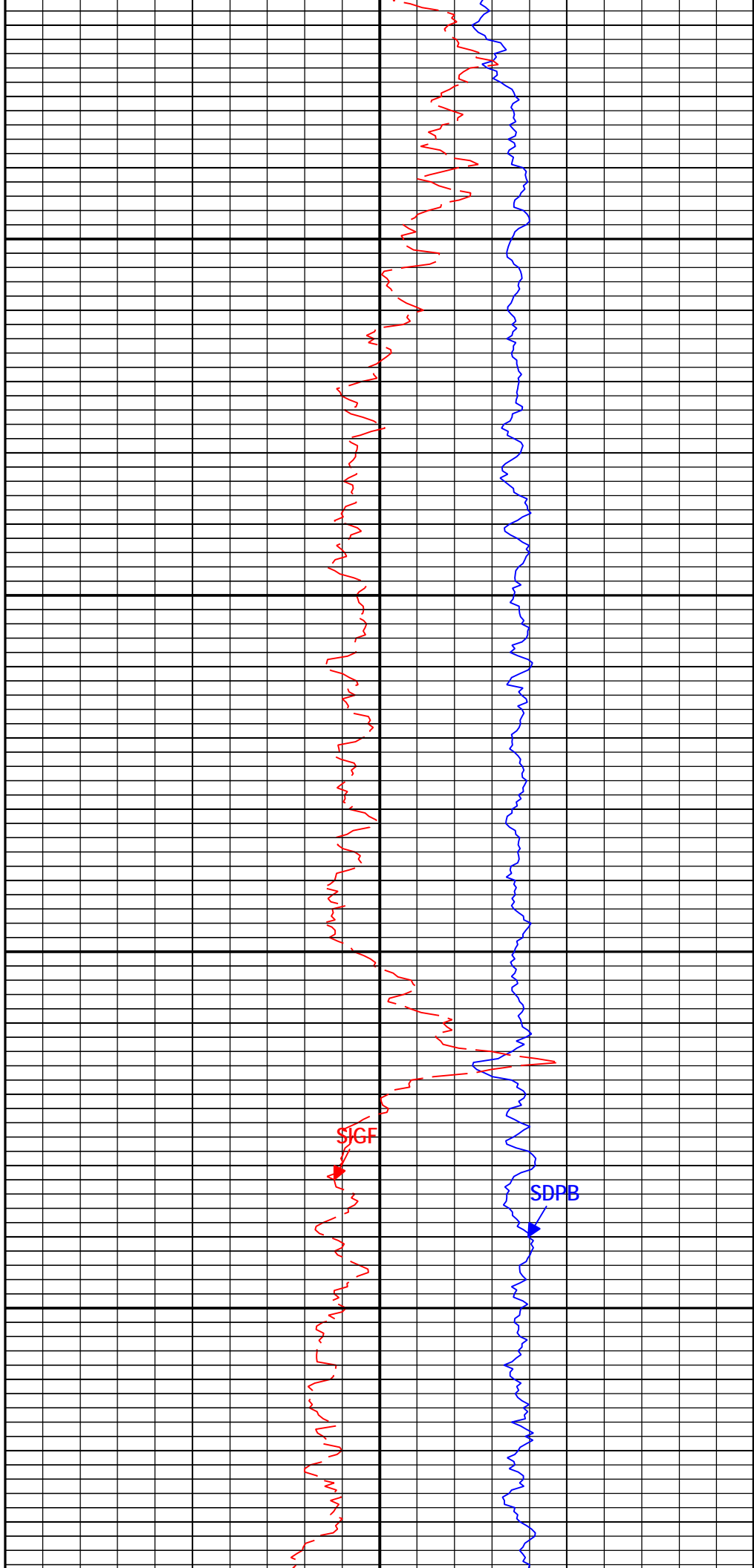
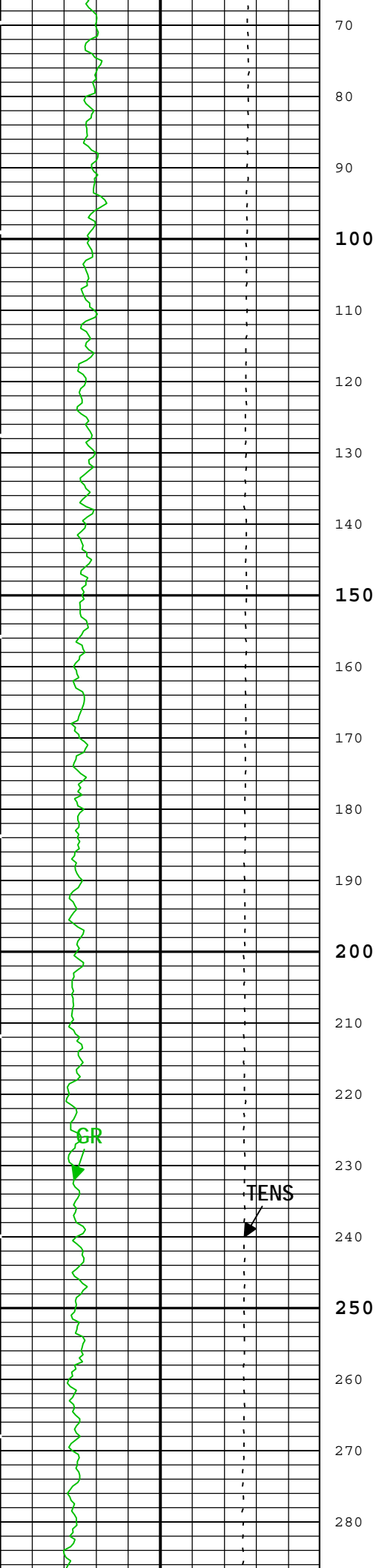
1A: Log[3]:Up

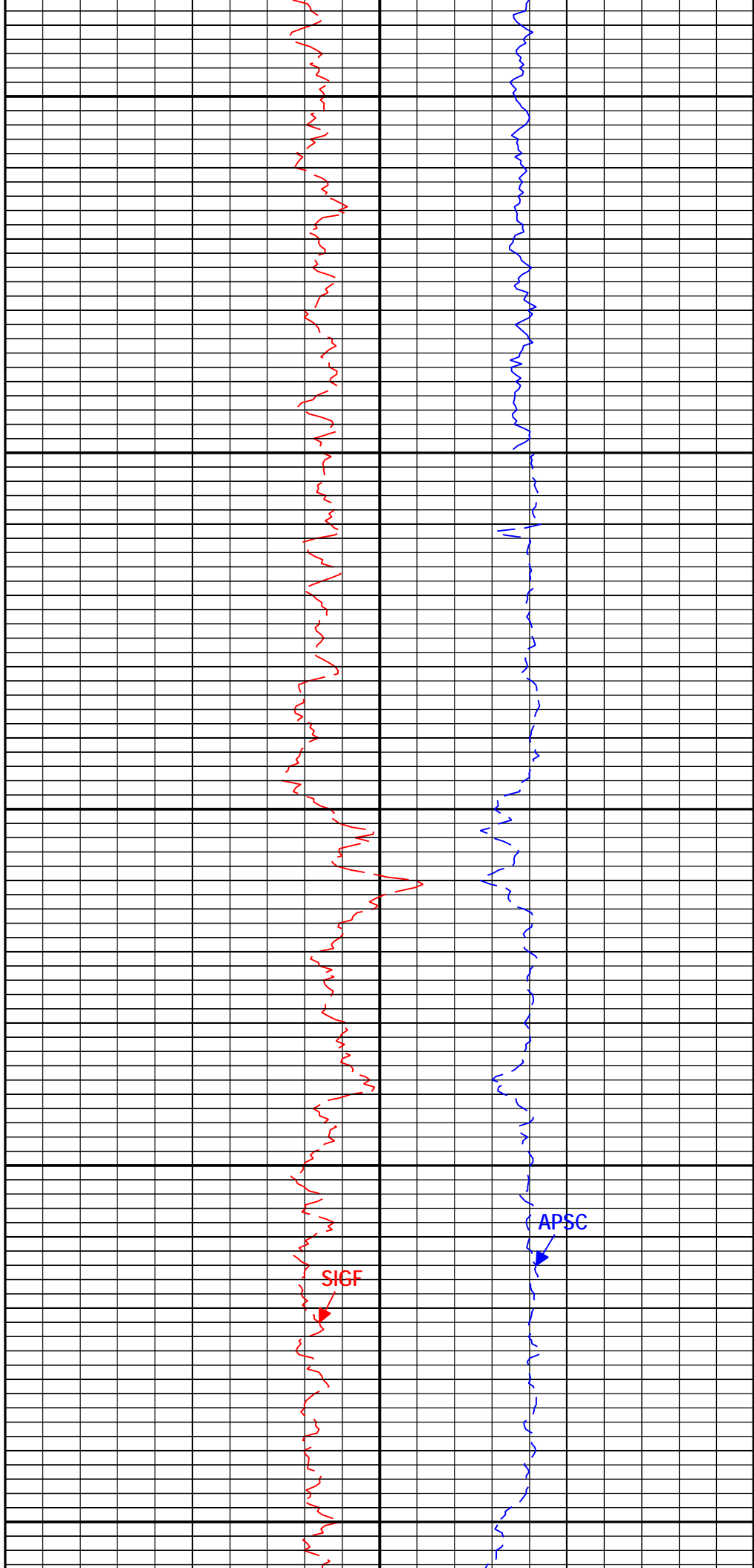
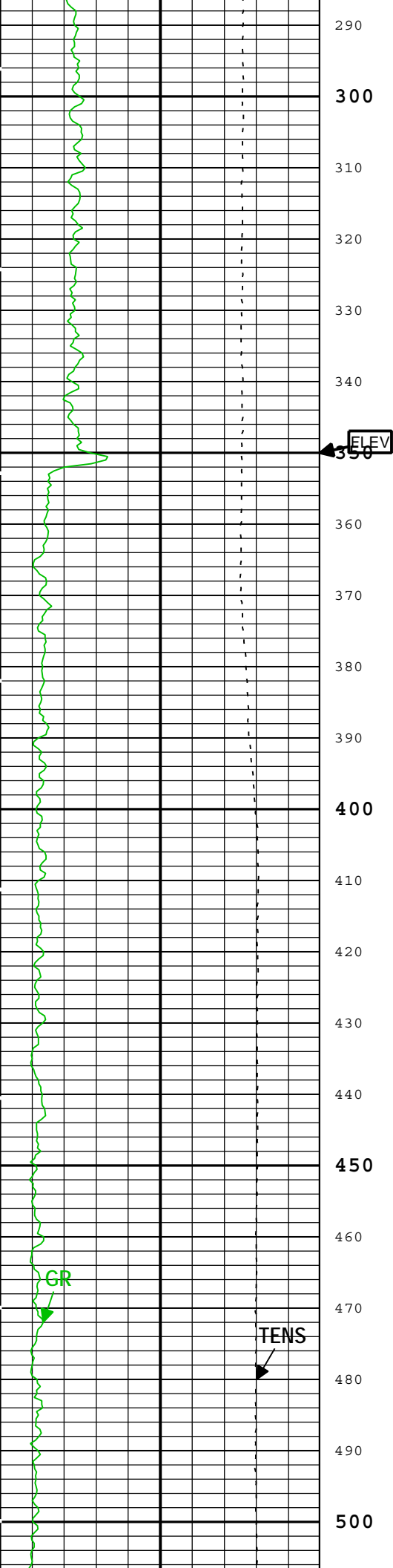
Description: Triple Combo standard resolution template for Platform Express Format: Log (STANDARD APS 5IN) Index Scale: 5 in per 100 ft Index Unit: ft
 Index Type: Measured Depth Creation Date: 03-Oct-2013 18:47:54

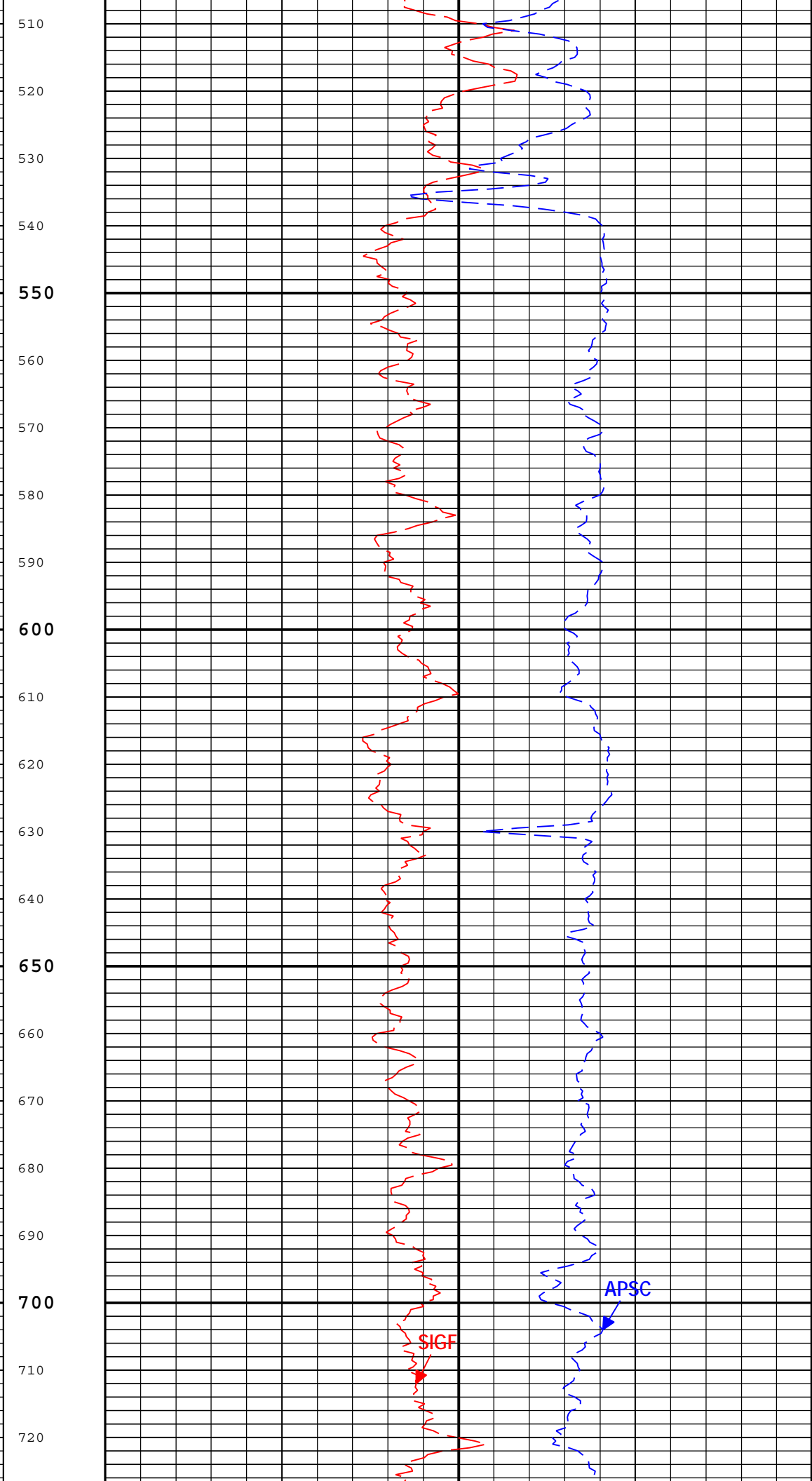
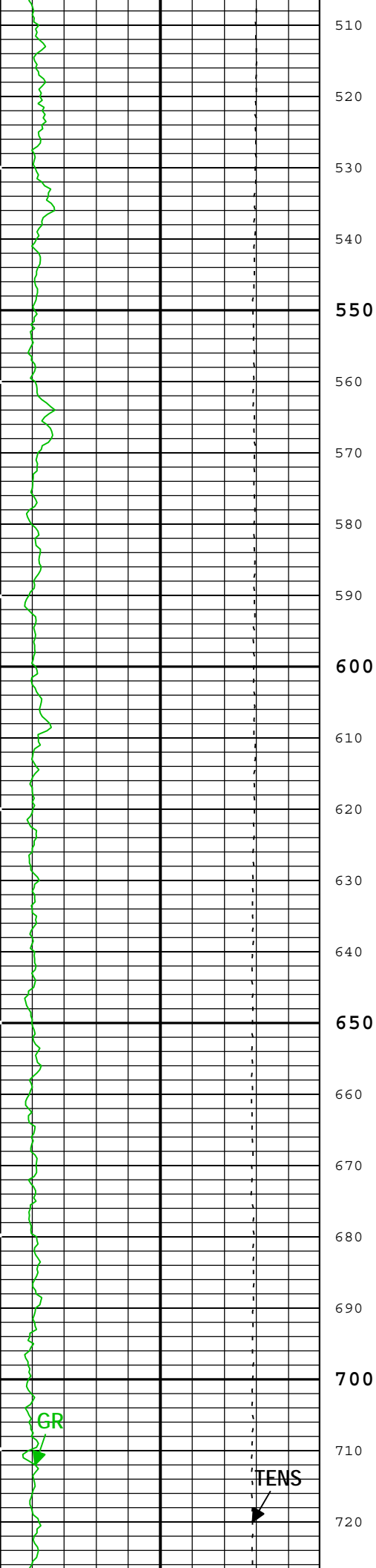
Channel	Source	Sampling
APSC	APS-C:APS-C:APS-C	6in
GR	EDTC-B:EDTC-B:EDTC-B	6in
SDPB	APS-C:APS-C:APS-C	6in
SIGF	APS-C:APS-C:APS-C	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

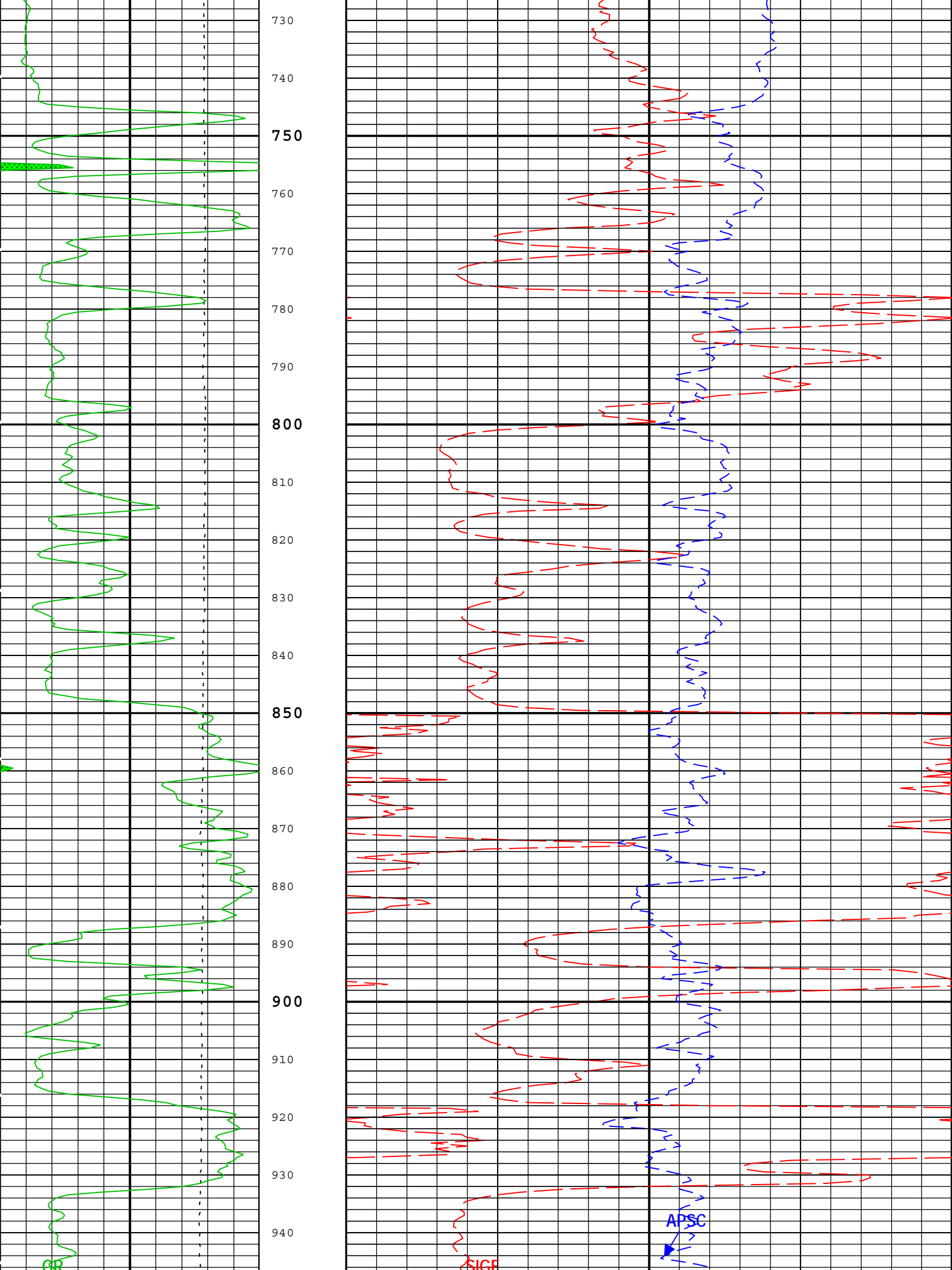
TIME_1900 - Time Marked every 60.00 (s)

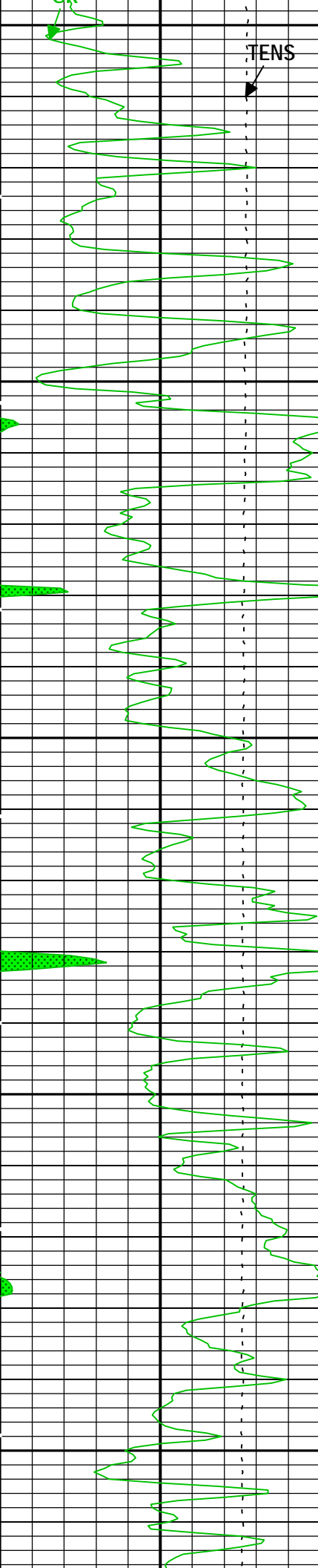




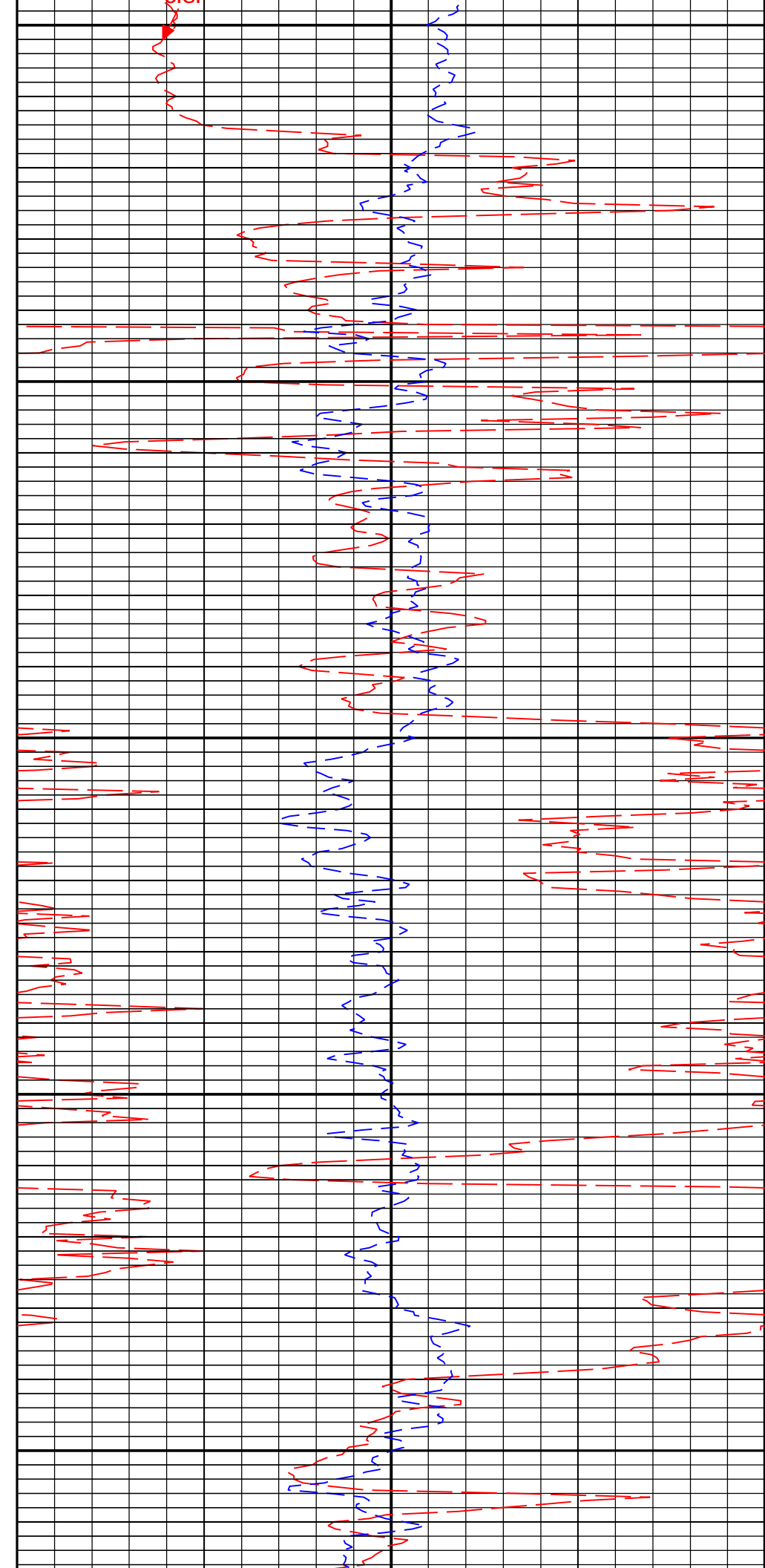


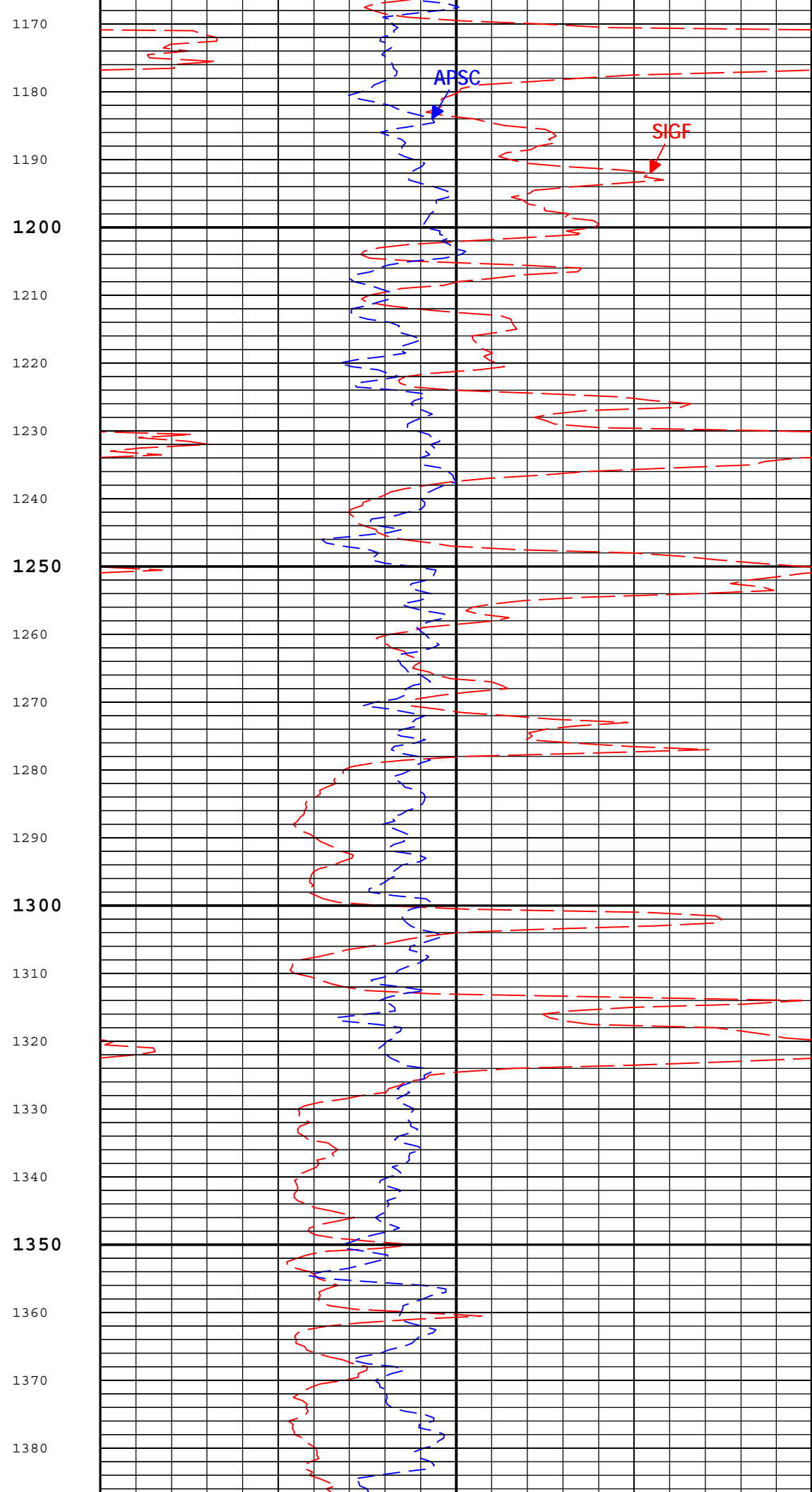
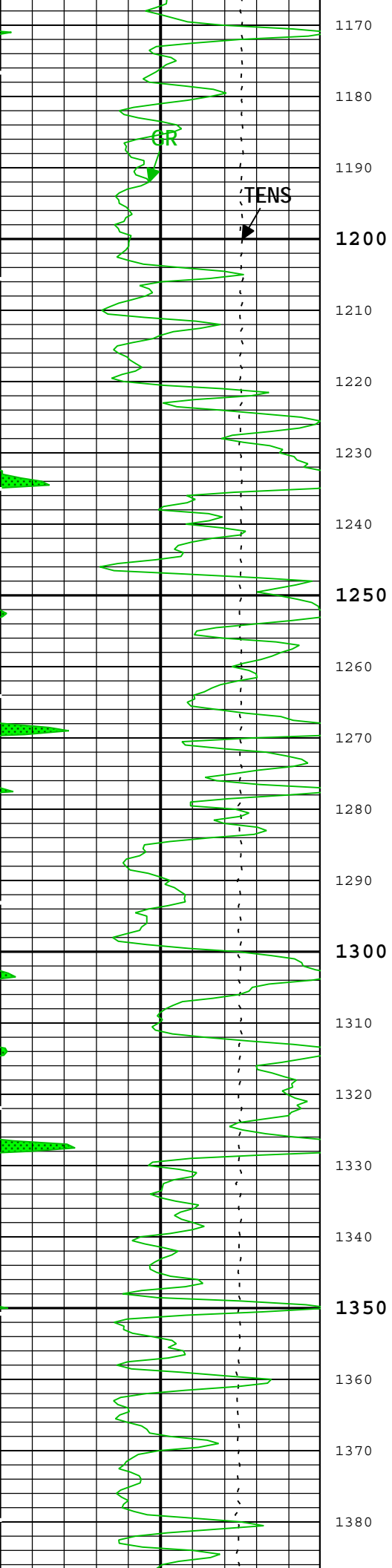


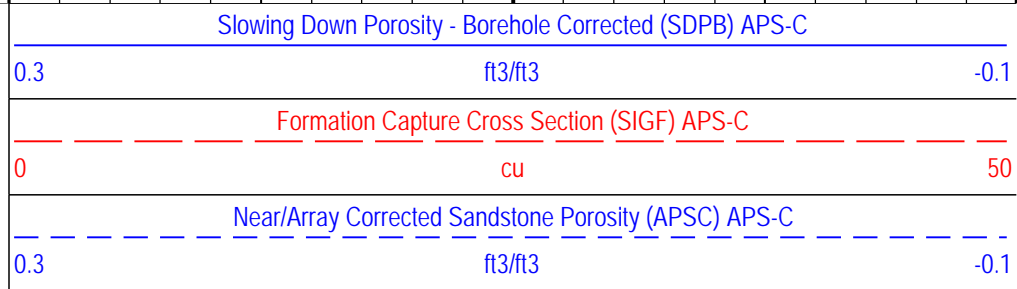
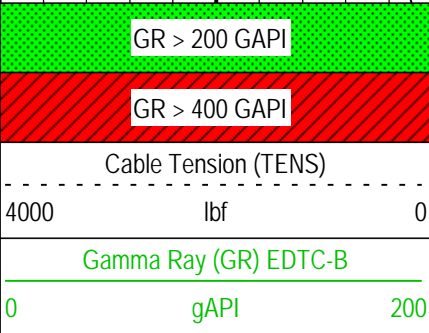
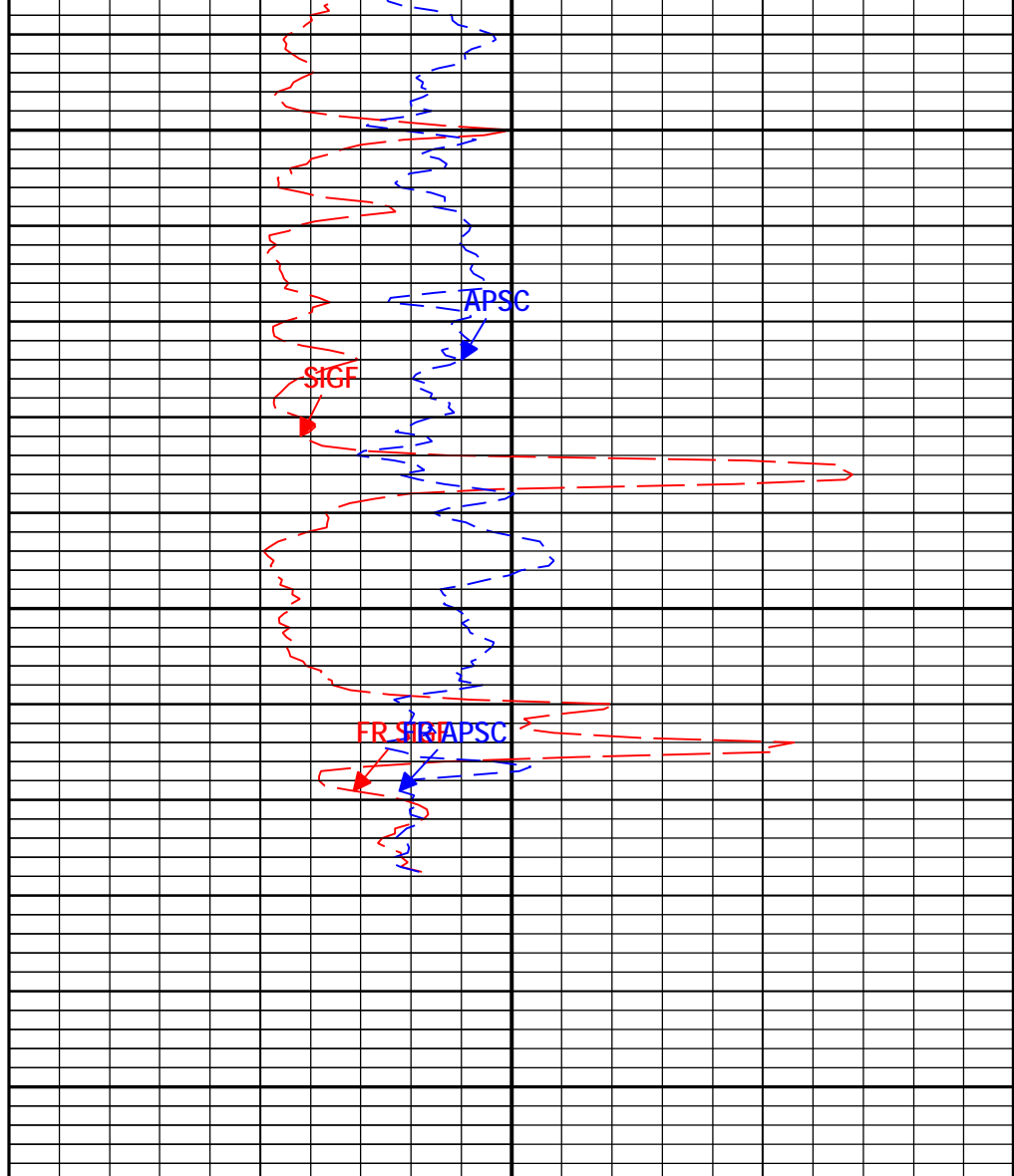
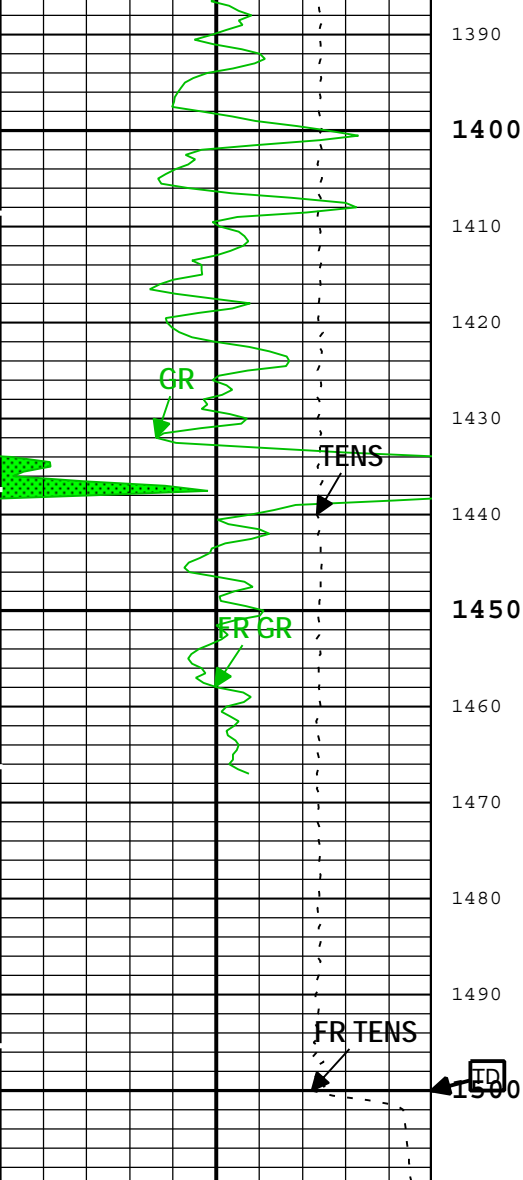




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TIME_1900 - Time Marked every 60.00 (s)

Description: Triple Combo standard resolution template for Platform Express Format: Log (STANDARD APS 5IN) Index Scale: 5 in per 100 ft Index Unit: ft
 Index Type: Measured Depth Creation Date: 03-Oct-2013 18:47:54

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
ADSO	APS Array Detectors Data Source	APS-C	Both	
AHSS	Hole Size Correction Switch	APS-C	On	
ASOS	Standoff Correction Switch	APS-C	On	
ATSS	Temperature-Pressure-Salinity Correction Switch	APS-C	On	
AZ_ENABLE	Z-Axis Acceleration Channel Enabled for Real-Time Depth Correction	DepthCorrection	No	
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	60.8	degF
BS	Bit Size	WLSESSION	Depth Zoned	in

BSAL	Borehole Salinity	Borehole	0	ppm
BSCO	Borehole Salinity Correction Option	APS-C	Yes	
CBLO	Casing Bottom (Logger)	WLSESSION	20	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DC_RT_ENABLE	Depth Correction Real-Time Enabled	DepthCorrection	No	
DFD	Drilling Fluid Density	Borehole	Depth Zoned	lbm/gal
DFT	Drilling Fluid Type	Borehole	Depth Zoned	
DFT_WATER	Drilling Fluid Water Type	Borehole	Fresh Water	
DSCO	Density Source Correction Option	APS-C	Computed	
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	0	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	380	ft
FSAL	Formation Salinity	Borehole	0	ppm
FSCO	Formation Salinity Correction Option	APS-C	Yes	
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST	
HSCO	Hole Size Correction Option	APS-C	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
MCCO	Mud Cake Correction Option	APS-C	Yes	
MCOR	Mud Correction	APS-C	Natural	
MWCO	Mud Weight Correction Option	APS-C	Yes	
PDAT	Permanent Datum	WLSESSION	GL	
PTCO	Pressure Temperature Correction Option	APS-C	Yes	
SHT	Surface Hole Temperature	Borehole	68	degF
SOCN.1	Standoff Distance	EDTC-B	0.125	in
SOCN.2	Standoff Distance	APS-C	0.125	in
SOCO.1	Standoff Correction Option	EDTC-B	No	
SOCO.2	Standoff Correction Option	APS-C	Yes	
TBHDS	Tool Borehole Diameter Source	APS-C	BS	
TD	Total Measured Depth	Borehole	1500	ft
TNCO	Thermal Neutron Porosity Computation Option	APS-C	No	
TPOS	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	8.75	-8	23
BS	6.25	23	1509.5
DFD	0.01	-8	350
DFD	8.4	350	1509.5
DFT	Gas	-8	350
DFT	Water	350	1509.5

All depth are actual.

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h

REPEAT PASS 5"

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
Software Version				
Acquisition System			Version	
MaxWell			3.1.9755.0	
Application Patch			SP-20130325-3.1.9755.1799	
SoftwareVersion_Tool	SoftwareVersion_Run Version	SoftwareVersion_Build Version		
WAFE-SEC	Synergy SV451EC version 8.10	Synergy SV451EC version 9.10		
WAFE-FEC	Synergy SV451EC version 8.10	Synergy SV451EC version 9.10		
WAFE-TMDI	Synergy SV451EC version 42.19	Synergy SV451EC version 44.19		
Tool Elements	Description	Software Version	Firmware Version	
APS-C	Accelerator Porosity Sonde element - Version C	3.1.9755.1799	4.0	
EDTC-B	Enhanced Digital Telemetry Cartridge - B	3.1.9755.0		

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
1A	Log[3]:Up	Up	33.77 ft	1509.48 ft	02-Oct-2013 12:09:27 PM	02-Oct-2013 1:00:37 PM	-0.52 ft	true

All depths are referenced to toolstring zero

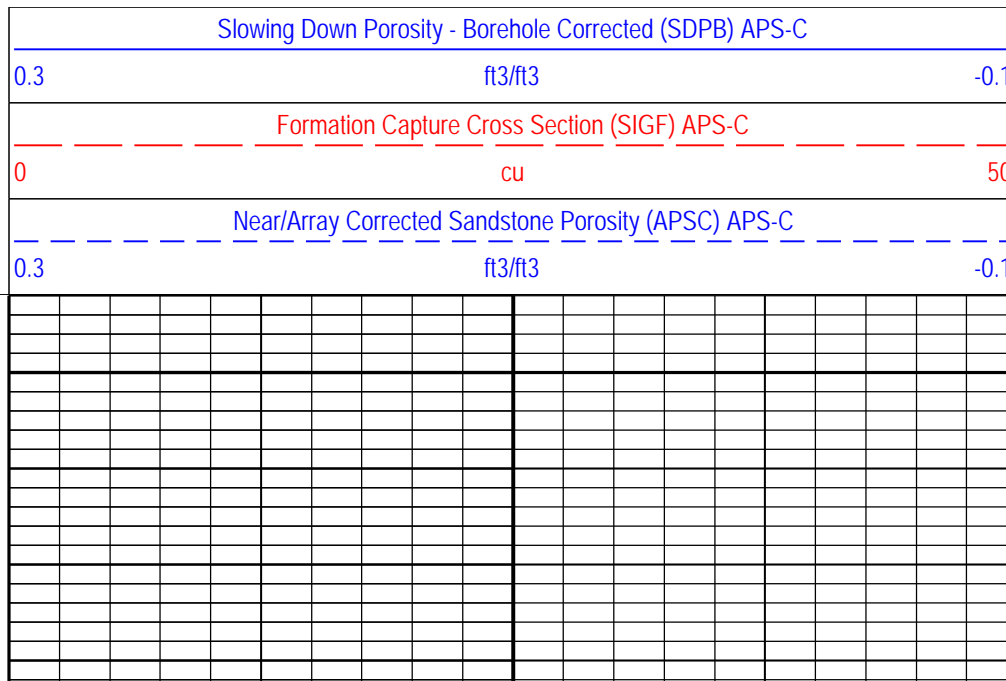
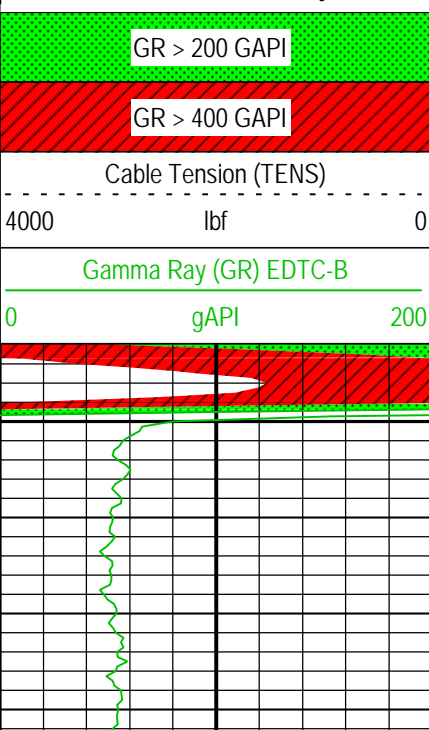
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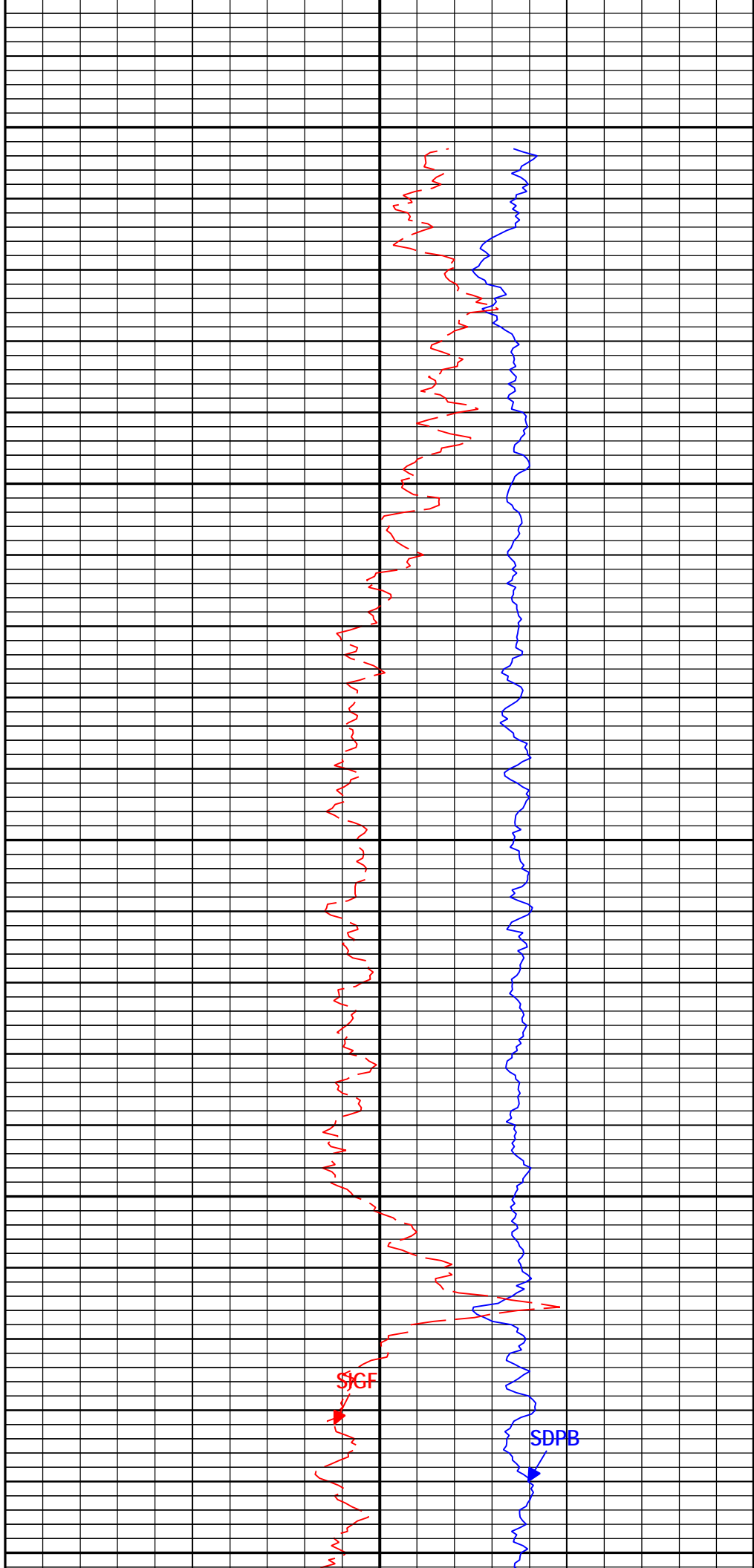
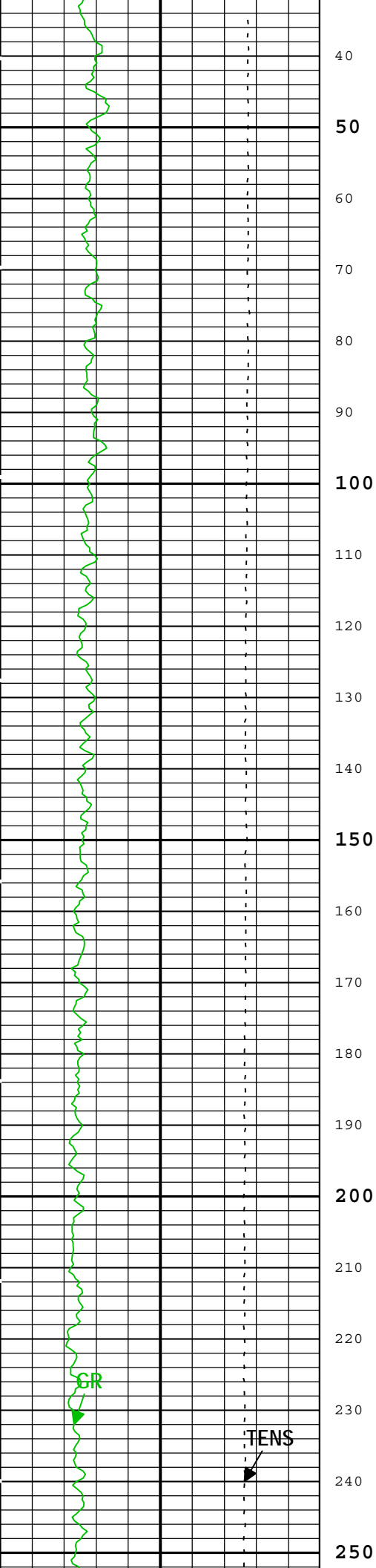
1A: Log[3]:Up

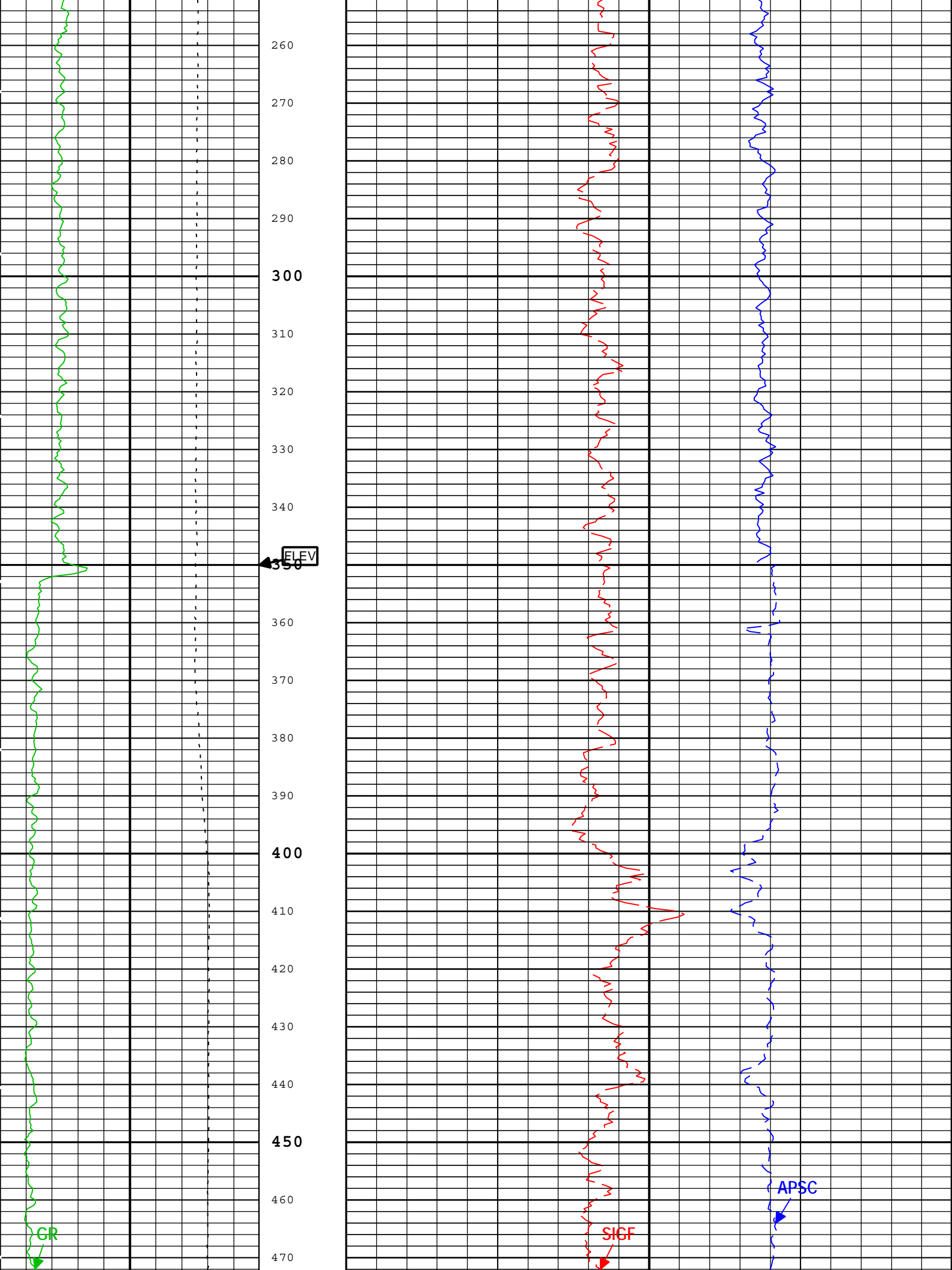
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 Index Type: Measured Depth Creation Date: 03-Oct-2013 18:47:57

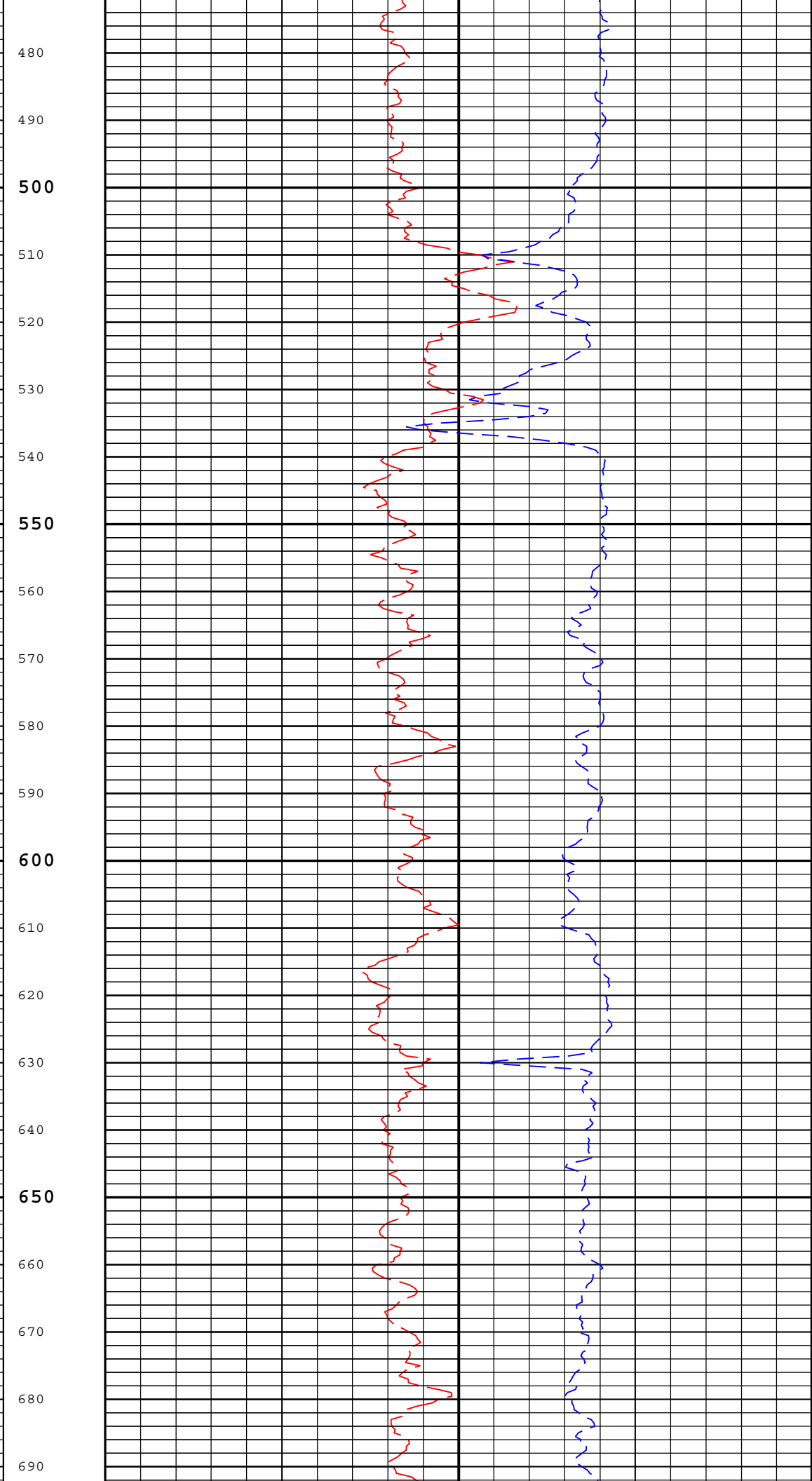
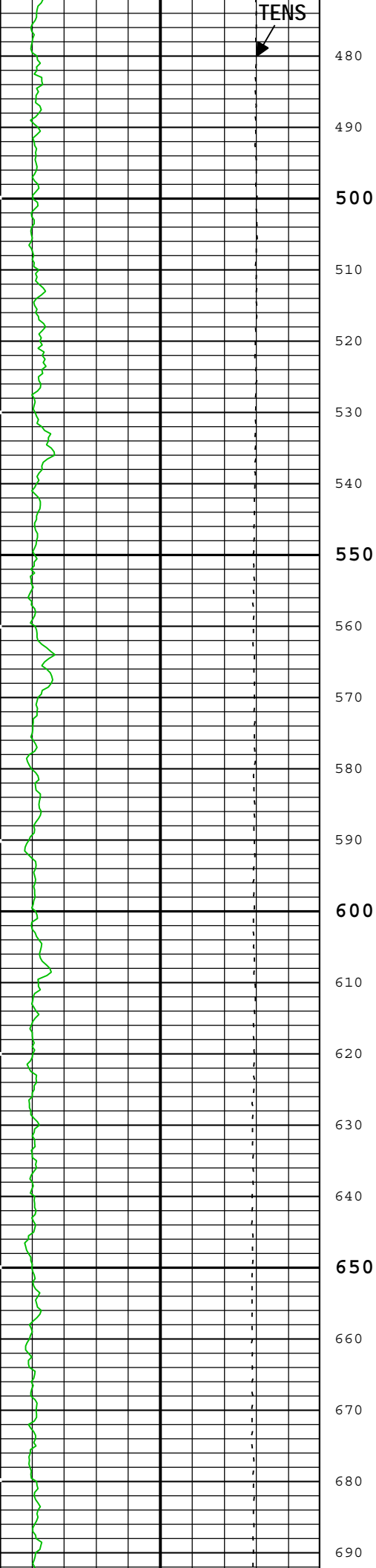
Channel	Source	Sampling
APSC	APS-C:APS-C:APS-C	6in
GR	EDTC-B:EDTC-B:EDTC-B	6in
SDPB	APS-C:APS-C:APS-C	6in
SIGF	APS-C:APS-C:APS-C	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

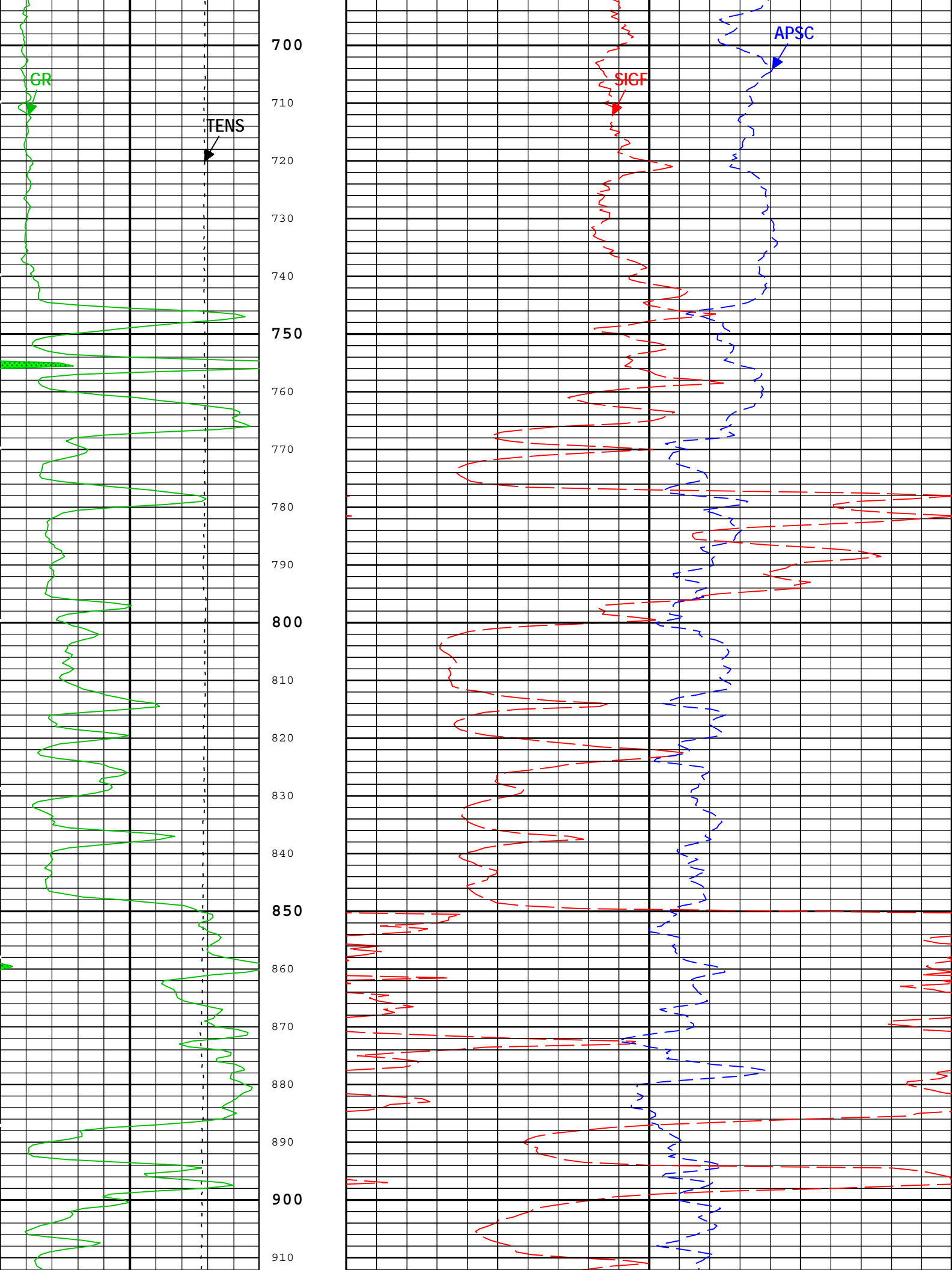
TIME_1900 - Time Marked every 60.00 (s)

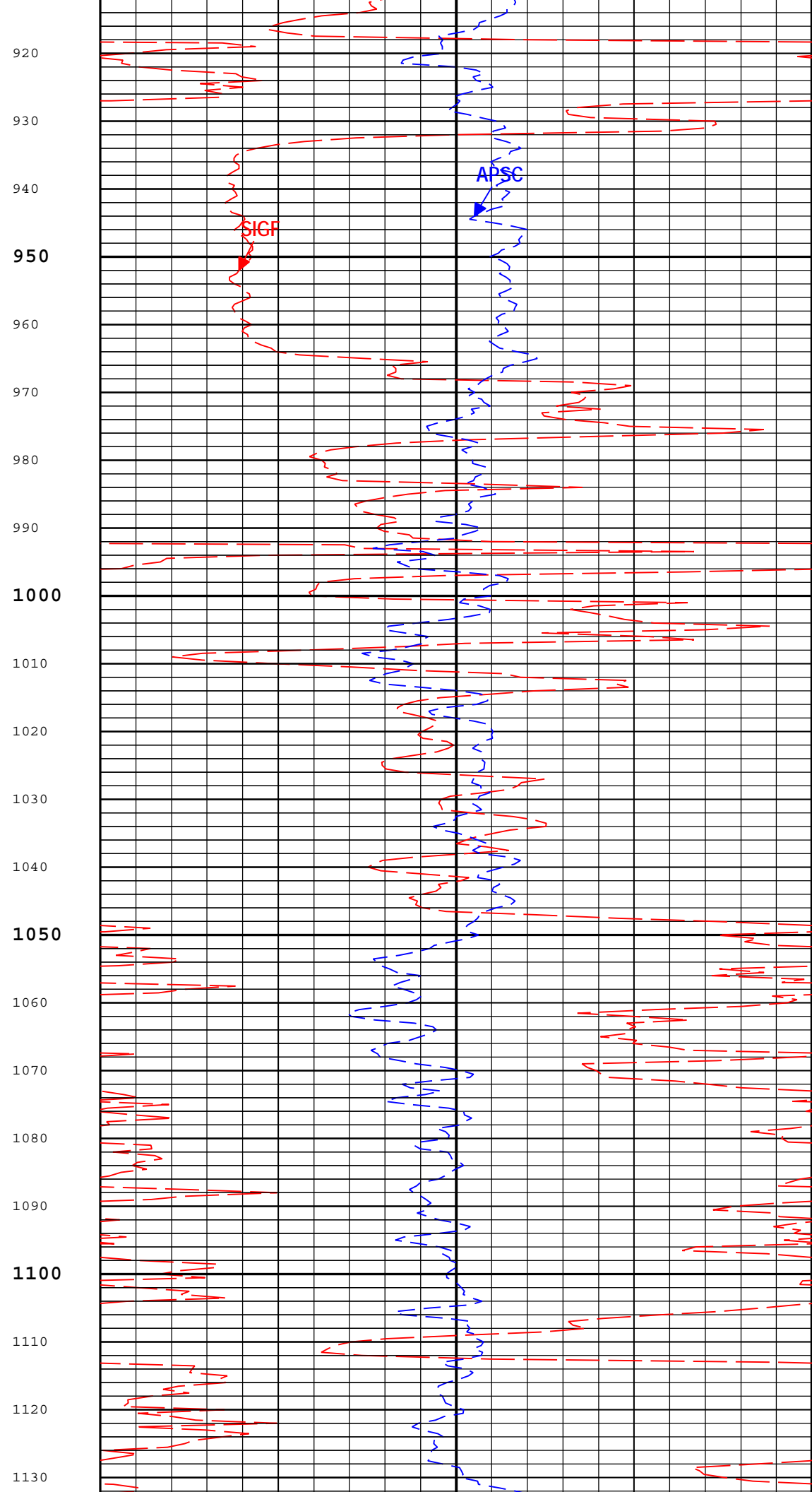
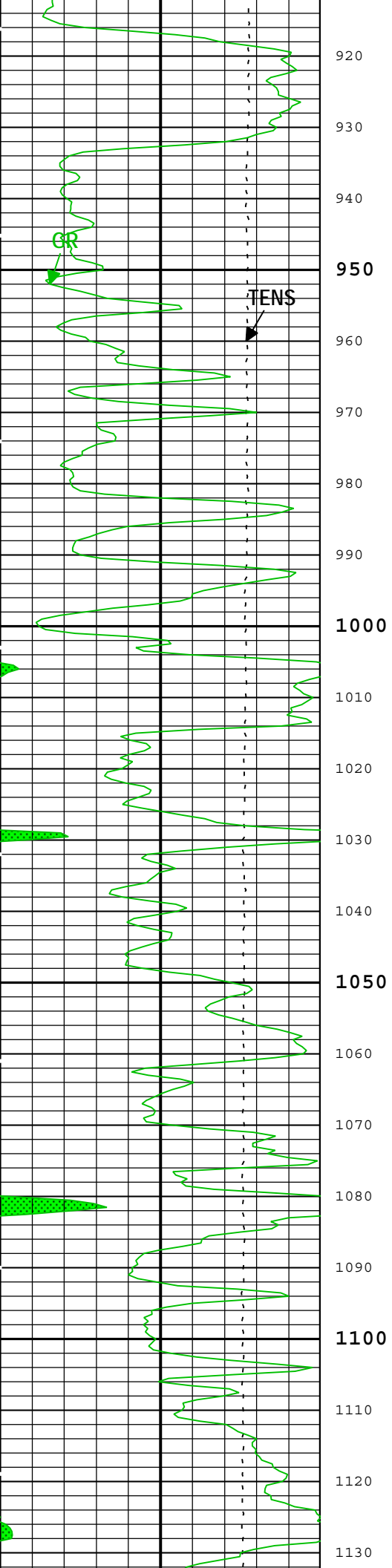


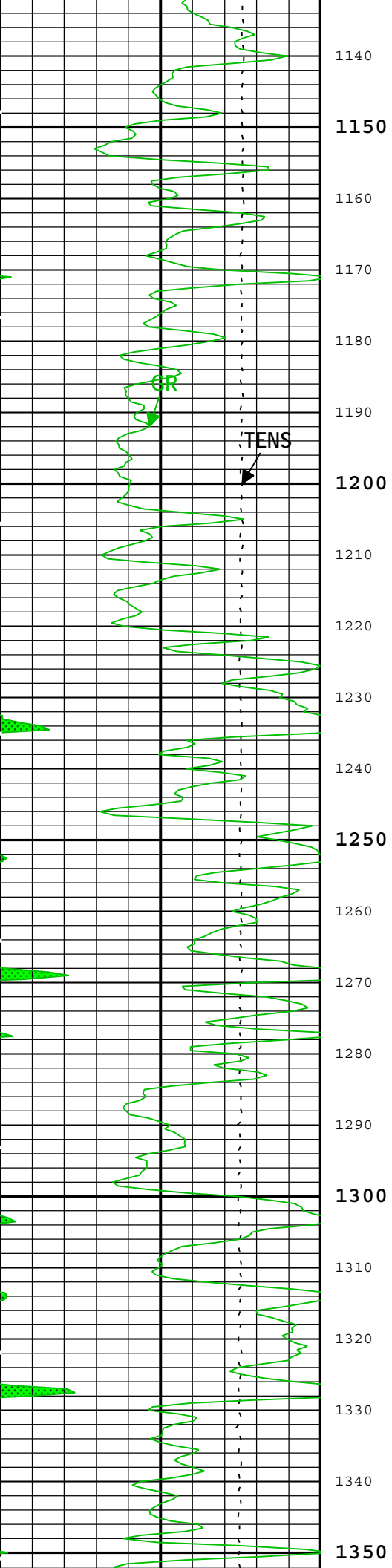












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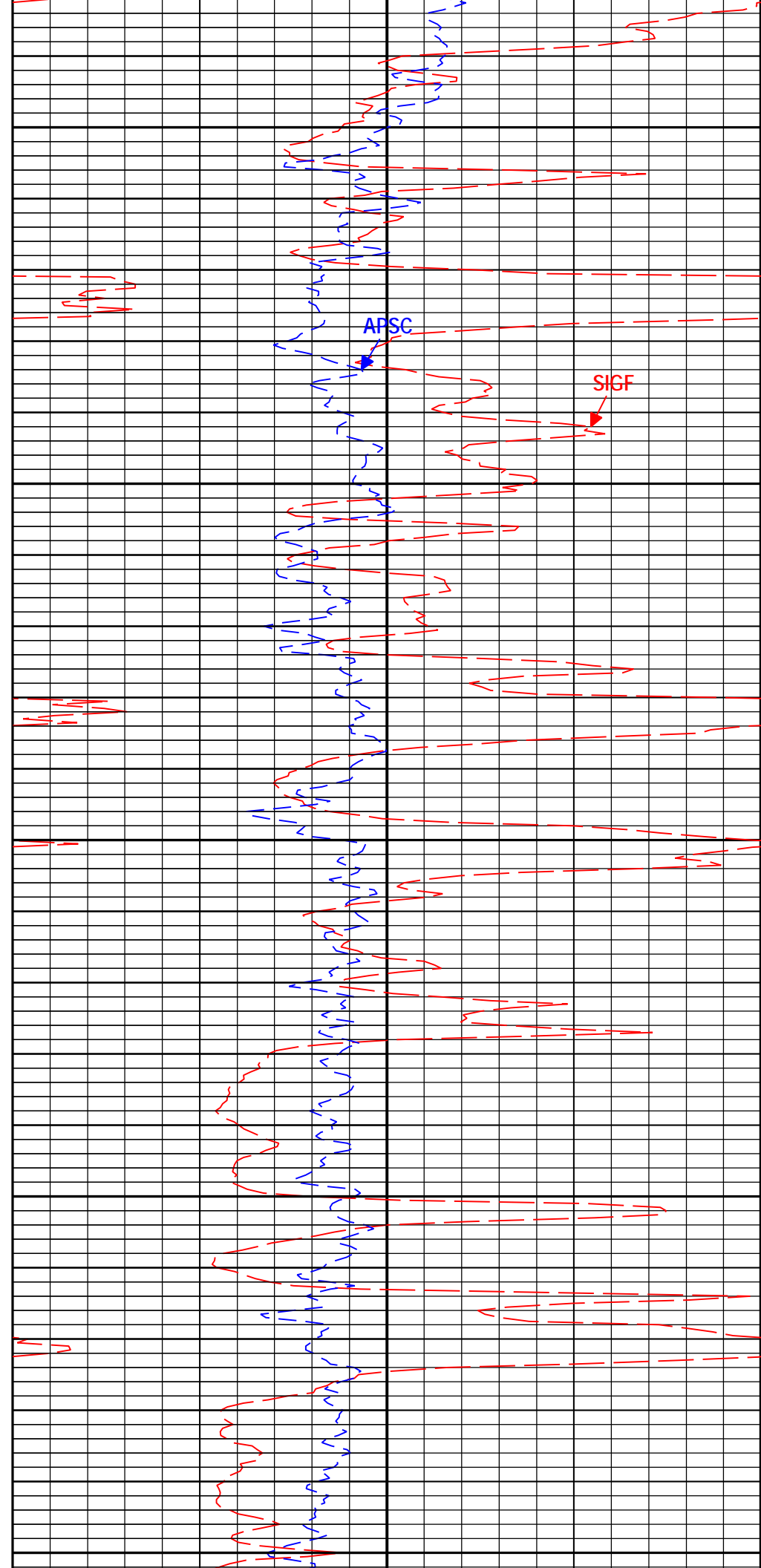
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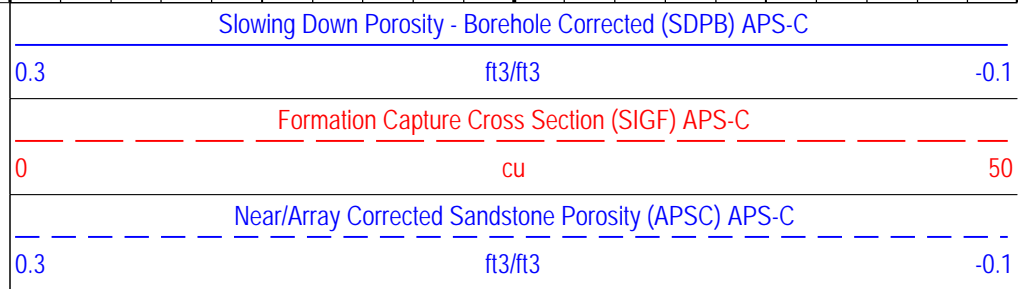
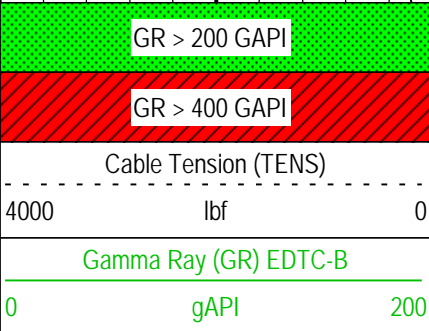
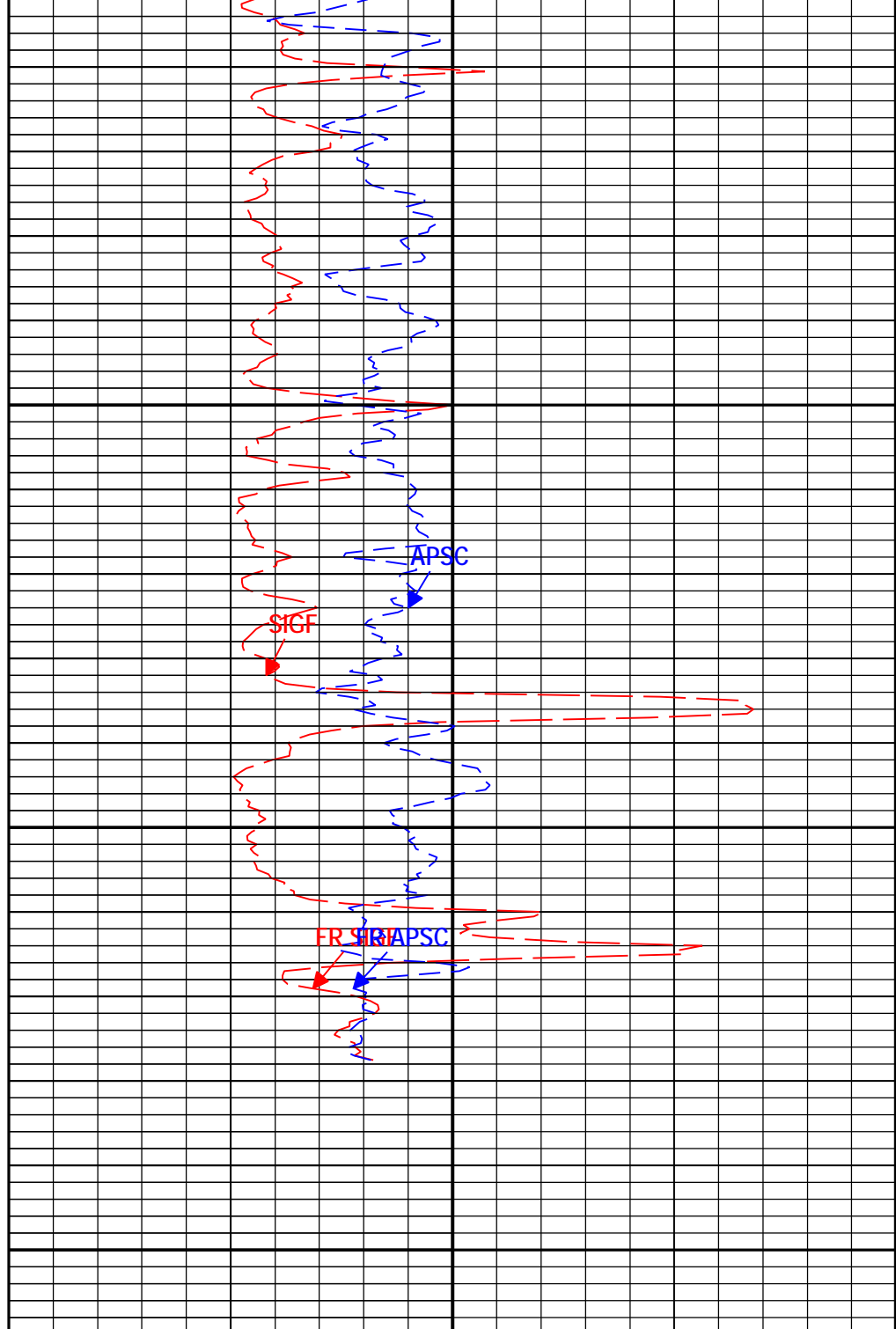
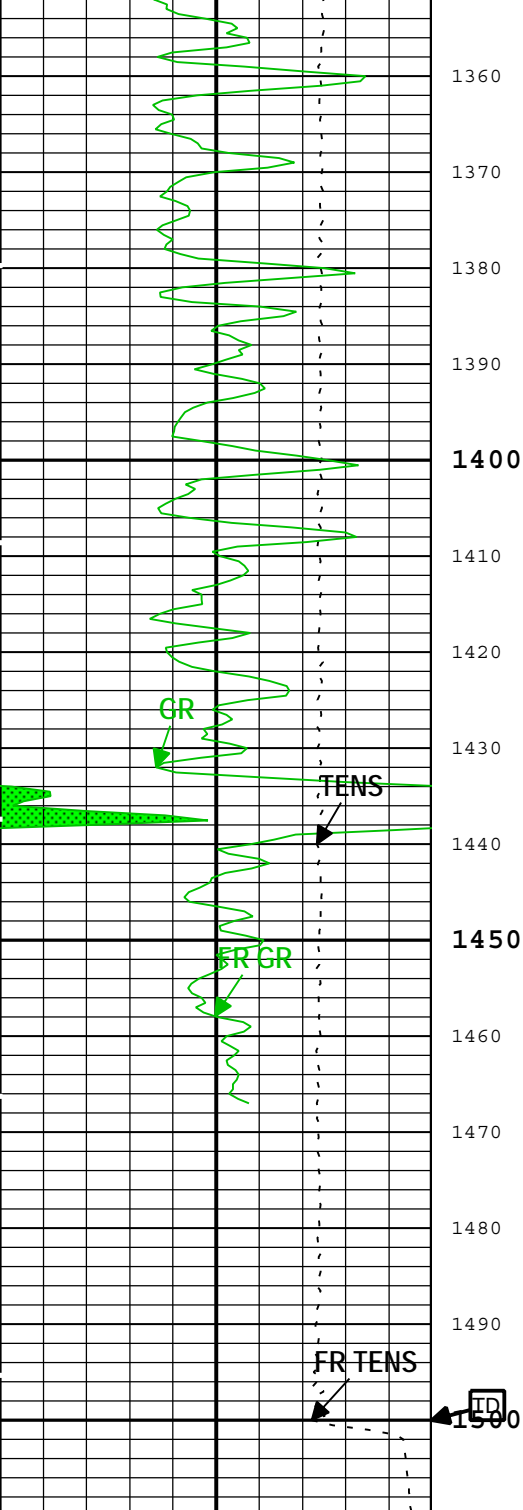
1340

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APSC

SIGF



TIME_1900 - Time Marked every 60.00 (s)

Description: Triple Combo standard resolution template for Platform Express Format: Log (STANDARD APS 5IN) Index Scale: 5 in per 100 ft Index Unit: ft
 Index Type: Measured Depth Creation Date: 03-Oct-2013 18:47:57

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
ADSO	APS Array Detectors Data Source	APS-C	Both	

AHSS	Hole Size Correction Switch	APS-C	On	
ASOS	Standoff Correction Switch	APS-C	On	
ATSS	Temperature-Pressure-Salinity Correction Switch	APS-C	On	
AZ_ENABLE	Z-Axis Acceleration Channel Enabled for Real-Time Depth Correction	DepthCorrection	No	
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	60.8	degF
BS	Bit Size	WLSESSION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	0	ppm
BSCO	Borehole Salinity Correction Option	APS-C	Yes	
CBLO	Casing Bottom (Logger)	WLSESSION	20	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DC_RT_ENABLE	Depth Correction Real-Time Enabled	DepthCorrection	No	
DFD	Drilling Fluid Density	Borehole	Depth Zoned	lbm/gal
DFT	Drilling Fluid Type	Borehole	Depth Zoned	
DFT_WATER	Drilling Fluid Water Type	Borehole	Fresh Water	
DSCO	Density Source Correction Option	APS-C	Computed	
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	0	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	380	ft
FSAL	Formation Salinity	Borehole	0	ppm
FSCO	Formation Salinity Correction Option	APS-C	Yes	
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST	
HSCO	Hole Size Correction Option	APS-C	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
MCCO	Mud Cake Correction Option	APS-C	Yes	
MCOR	Mud Correction	APS-C	Natural	
MWCO	Mud Weight Correction Option	APS-C	Yes	
PDAT	Permanent Datum	WLSESSION	GL	
PTCO	Pressure Temperature Correction Option	APS-C	Yes	
SHT	Surface Hole Temperature	Borehole	68	degF
SOCN.1	Standoff Distance	EDTC-B	0.125	in
SOCN.2	Standoff Distance	APS-C	0.125	in
SOCO.1	Standoff Correction Option	EDTC-B	No	
SOCO.2	Standoff Correction Option	APS-C	Yes	
TBHDS	Tool Borehole Diameter Source	APS-C	BS	
TD	Total Measured Depth	Borehole	1500	ft
TNCO	Thermal Neutron Porosity Computation Option	APS-C	No	
TPOS	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	8.75	-8	23
BS	6.25	23	1509.5
DFD	0.01	-8	350
DFD	8.4	350	1509.5

Thru Cal Mag - 0	V	Master	----	0.366	0.617	0.854	
		Before	----	0.366	0.617	0.854	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 0	deg	Master	----	137.000	-170.814	-103.000	
		Before	----	137.000	-170.891	-103.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.077	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 1	V	Master	----	0.762	1.264	1.778	
		Before	----	0.762	1.264	1.778	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 1	deg	Master	----	136.000	-171.887	-104.000	
		Before	----	136.000	-171.966	-104.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.079	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 2	V	Master	----	0.372	0.627	0.868	
		Before	----	0.372	0.627	0.868	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 2	deg	Master	----	132.000	-175.473	-108.000	
		Before	----	132.000	-175.552	-108.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.079	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 3	V	Master	----	0.420	0.708	0.980	
		Before	----	0.420	0.707	0.980	
		After	----	----	----	----	
		Before-Master	----	----	-0.001	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 3	deg	Master	----	131.000	-176.231	-109.000	
		Before	----	131.000	-176.309	-109.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.078	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 4	V	Master	----	0.804	1.324	1.876	
		Before	----	0.804	1.324	1.876	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 4	deg	Master	----	125.000	177.589	-115.000	
		Before	----	125.000	177.506	-115.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.083	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 5	V	Master	----	1.176	1.927	2.744	
		Before	----	1.176	1.927	2.744	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 5	deg	Master	----	122.000	175.963	-118.000	
		Before	----	122.000	175.875	-118.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.088	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 6	V	Master	----	1.176	1.926	2.744	
		Before	----	1.176	1.926	2.744	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 6	deg	Master	----	121.000	175.976	-119.000	
		Before	----	121.000	175.888	-119.000	
		After	----	----	----	----	

		Before-Master	----	----	-0.088	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 7	V	Master	----	0.846	1.387	1.974	
		Before	----	0.846	1.387	1.974	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 7	deg	Master	----	115.000	175.281	-125.000	
		Before	----	115.000	175.163	-125.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.118	----	
		After-Before	----	----	----	----	
SPA Zero	mV	Master		-50.000	-0.155	50.000	
		Before		-50.000	-0.139	50.000	
		After	----	----	----	----	
		Before-Master	----	----	0.016	----	
		After-Before	----	----	----	----	
SPA Plus	mV	Master		941.000	986.227	1040.000	
		Before		941.000	986.424	1040.000	
		After	----	----	----	----	
		Before-Master	----	----	0.197	----	
		After-Before	----	----	----	----	
Temperature Zero	V	Master		-0.050	0.000	0.050	
		Before		-0.050	0.000	0.050	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Temperature Plus	V	Master		0.870	0.914	0.960	
		Before		0.870	0.914	0.960	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	

APS-C (Accelerator Porosity Sonde - Version C) Calibration - Run 1A

Primary Equipment :			
Accelerator Porosity Sonde element - Version C	APS-C	70	
Auxiliary Equipment :			
Minitron	MNTR	50081	

APS Minitron Yield Calibration - Minitron Beam Setpoint

Master (EEPROM):		16:53:42 23-Aug-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Minitron Beam Current Set Point	uA	Master	85.000	30.000	69.766	120.000	

APS Plateau Setting - Detector HV Setpoints

Master (EEPROM):		16:53:42 23-Aug-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near HV - Plateau Setting	V	Master	1650.000	1400.000	1698.611	1900.000	
Far HV - Plateau Setting	V	Master	2000.000	1750.000	2039.525	2250.000	
Array HV - Plateau Setting	V	Master	2000.000	1750.000	1937.186	2250.000	

APS Ratio Porosity Calibration - Calibration Ratio

Master (EEPROM):		16:53:42 23-Aug-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Far Calibration Ratio	-	Master	0.925	0.800	0.967	1.050	
Near Array Calibration Ratio	-	Master	1.030	0.900	1.064	1.170	
Near Far Calibration Ratio Up/Down Ratio	-	Master	1.000	0.970	0.999	1.030	
Near Array Calibration Ratio Up/Down Ratio	-	Master	1.000	0.970	0.996	1.030	

APS Ratio Porosity Calibration - Slowing Down

Master (EEPROM):		16:53:42 23-Aug-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Array 1 Porosity- Down Measurement	ft3/ft3	Master	0.118	0.099	0.120	0.136	
Array 2 Porosity- Down Measurement	ft3/ft3	Master	0.118	0.099	0.118	0.136	
Average Slowing Down Time	us	Master	6.000	5.500	5.747	6.250	
Array 1 Slowing Down Time Up/Down Ratio	-	Master	1.000	0.950	0.978	1.050	

APS Ratio Porosity Calibration - Sigma

Master (EEPROM): 16:53:42 23-Aug-2013							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sigma - Down Measurement	cu	Master	27.50	20.00	27.44	35.00	

APS Ratio Porosity Calibration - Detector Background Count Rates

Master (EEPROM): 16:53:42 23-Aug-2013							
		Before (Measured):	20:04:36 30-Sep-2013		After:		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Detector Count Rate	1/s	Master	30.000	1.000	32.830	50.000	
		Before	30.000	1.000	33.851	50.000	
		After	----	----	----	----	
		Before-Master	----	----	1.021	----	
		After-Before	----	----	----	----	
Far Detector Count Rate	1/s	Master	30.000	1.000	30.141	50.000	
		Before	30.000	1.000	30.529	50.000	
		After	----	----	----	----	
		Before-Master	----	----	0.388	----	
		After-Before	----	----	----	----	
Array-1 Detector Count Rate	1/s	Master	30.000	1.000	28.564	50.000	
		Before	30.000	1.000	29.471	50.000	
		After	----	----	----	----	
		Before-Master	----	----	0.907	----	
		After-Before	----	----	----	----	
Array-2 Detector Count Rate	1/s	Master	30.000	1.000	28.797	50.000	
		Before	30.000	1.000	29.587	50.000	
		After	----	----	----	----	
		Before-Master	----	----	0.790	----	
		After-Before	----	----	----	----	
Thermal Detector Count Rate	uA	Master	30.000	1.000	28.952	50.000	
		Before	30.000	1.000	31.754	50.000	
		After	----	----	----	----	
		Before-Master	----	----	2.802	----	
		After-Before	----	----	----	----	

EDTC-B (Enhanced Digital Telemetry Cartridge - Version B) Calibration - Run 1A

Primary Equipment :			
Enhanced Digital Telemetry Cartridge - B	EDTC-B	8592	
Calibration Parameter :			
Plus Reference (Jig minus background reference)	165		

EDTC-B Accelerometer Calibration - EDTC-B Accelerometer Calibration

Before (Measured): 11:10:42 02-Oct-2013							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	ft/s2	Before	32.19	31.53	32.06	32.84	

EDTC-B Memory Data - EDTC-B Memory Data

Master (EEPROM): 11:06:26 02-Oct-2013							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Initial PMT HV	V	Master			1618.000		
Accelerometer Serial Number		Master			660		
Accelerometer Coefficients - 0		Master	----	----	2.950	----	
Accelerometer Coefficients - 1		Master	----	----	0.000	----	
Accelerometer Coefficients - 2		Master	----	----	0.000	----	
Accelerometer Coefficients - 3		Master	----	----	0.000	----	
Accelerometer Coefficients - 4		Master	----	----	0.000	----	
Accelerometer Coefficients - 5		Master	----	----	0.000	----	
Accelerometer Coefficients - 6		Master	----	----	0.000	----	
Accelerometer Coefficients - 7		Master	----	----	-0.010	----	
Accelerometer Coefficients - 8		Master	----	----	0.000	----	
Accelerometer Coefficients - 9		Master	----	----	0.000	----	
Accelerometer Coefficients - 10		Master	----	----	0.000	----	
Accelerometer Coefficients - 11		Master	----	----	0.000	----	
Gamma-Ray Detector Serial Number		Master			7755		

EDTC-B Gamma-Ray Calibration - Gamma Ray Coefficients

Before (Measured):		17:25:33 25-Nov-2013		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Gain		Before	1.000	0.900	1.052	1.100	
		After	----	----	----	----	
		After-Before	----	----	----	----	

EDTC-B Gamma-Ray Calibration - Gamma Ray Accumulations

Before (Measured):		17:25:33 25-Nov-2013		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before		0	51.222	120.000	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RGR Plus Measurement	gAPI	Before	165.000	150.000	156.886	180.000	
		After	----	----	NOT DONE	----	
		After-Before	----	----	----	----	

LEH-QT (Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor) Calibration - Run 1A

Primary Equipment :
 Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor LEH-QT

HTEN Master Calibration - HTEN Master Calibration

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
HTEN Shop Gain		Master	1.000	0.800	NOT DONE	4.500	
HTEN Shop Offset	lbf	Master	0	-1000.000	NOT DONE	1000.000	

HTEN Before Calibration - HTEN Before Calibration

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RHTE Zero Measurement - 0	lbf	Before	----	----	----	----	
RHTE Plus Measurement - 0	lbf	Before	----	----	----	----	
HTEN Gain - 0		Before	----	----	----	----	
HTEN Offset - 0	lbf	Before	----	----	----	----	

Company: LAMONT DOHERTY EARTH OBSERVATORY **Schlumberger**

Well: TW #3

Field: WILDCAT

County: ROCKLAND

State: NEW YORK

ACCELERATED POROSITY SONDE
 PULSE NEUTRON POROSITY
 GAMMA RAY