

Company: Conoco Phillips Company

Well: Tebo 33 1P

Field: Wildcat

County: Arapahoe State: Colorado

Platform Express
Triple Combo

County:	Arapahoe				
Field:	Wildcat				
Location:	SHL: SWSW 900' FSL & 310' FWL				
Well:	Tebo 33 1P				
Company:	Conoco Phillips Company				
		Location:			
		SHL: SWSW 900' FSL & 310' FWL	Elev.:	K.B.	5863.50 ft
		Sec: 33, T: 4S, R: 64W		G.L.	5839.50 ft
		Lat: 39.654664, Long: -104.564814		D.F.	5862.50 ft
		Permanent Datum:	Ground Level	Elev.:	5839.50 f
		Log Measured From:	Kelly Bushing	24.00 ft	above Perm.Datum
		Drilling Measured From:	Kelly Bushing		
		API Serial No.	Section:	Township:	Range:
		05-005-07205-00	33	4S	64W

Logging Date	16-Jun-2013				
Run Number	Run 1				
Depth Driller	8130.00 ft				
Schlumberger Depth	8140.00 ft				
Bottom Log Interval	8140.00 ft				
Top Log Interval	6500.00 ft				
Casing Driller Size @ Depth	9.625 in @ 2188.00 ft				
Casing Schlumberger	2188 ft				
Bit Size	8.75 in				
Type Fluid In Hole	Diesel				
Density	9.4 lbm/gal	48 s			
Fluid Loss	6 cm3	9			
Source of Sample	N/A				
RM @ Meas Temp	N/A				
RMF @ Meas Temp	N/A				
RMC @ Meas Temp	N/A				
Source RMF	RMC	N/A	N/A		
RM @ BHT	RMF @ BHT	N/A	N/A		
Max Recorded Temperatures	220 degF				
Circulation Stopped	Time	22:30:00			
Logger on Bottom	Time	16-Jun-2013	08:00:11		
Unit Number	Location:	2135	Fort Morgan, CO		
Recorded By	Max Pace				
Witnessed By	Clint Goinz				

Disclaimer

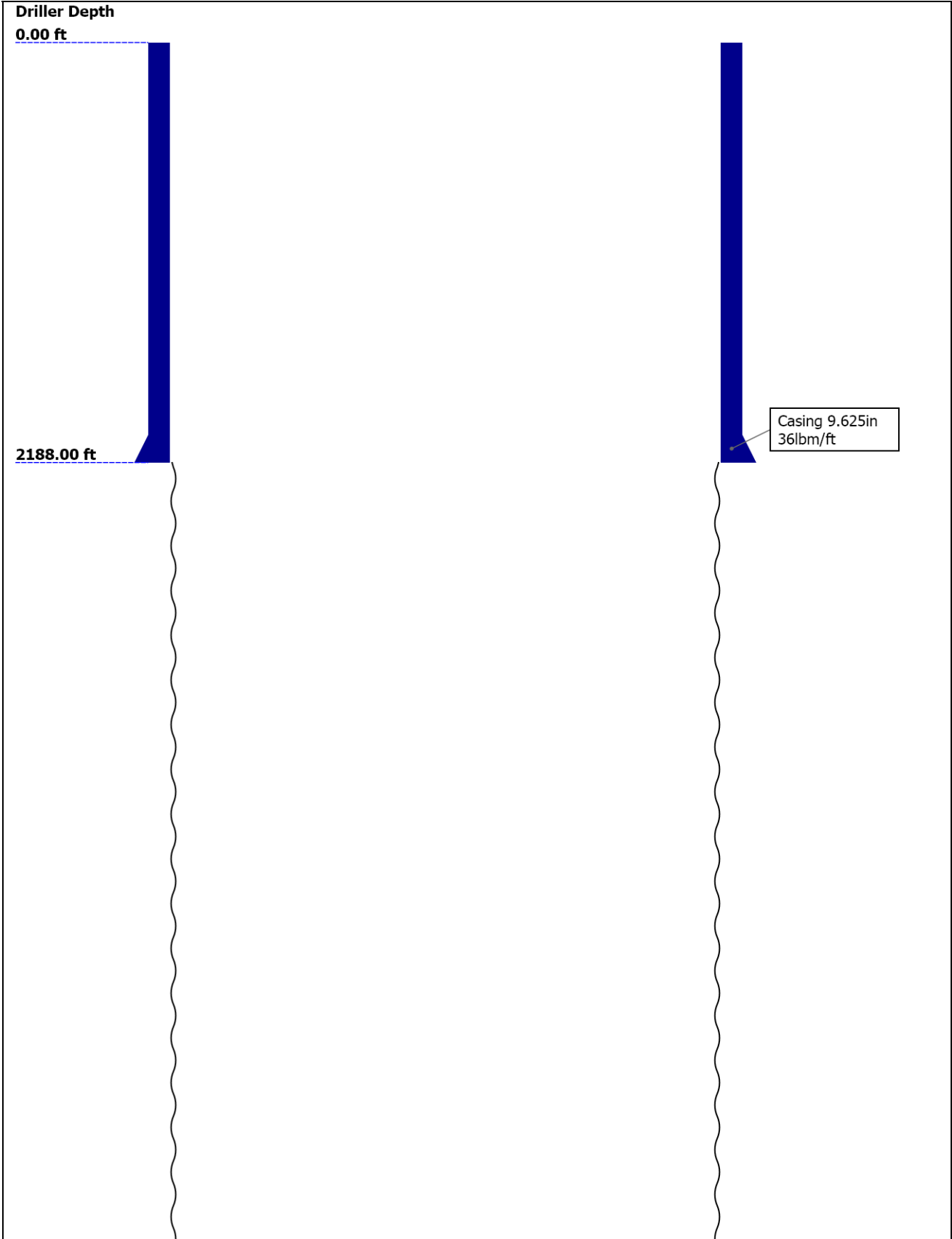
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Well Sketch



8130.00 ft

Open Hole 8.75in

Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	8.75					
Top Driller (ft)	2188					
Top Logger (ft)	2188					
Bottom Driller (ft)	8130					
Bottom Logger (ft)	8140					
Casing						
Size (in)	9.625					
Weight (lbm/ft)	36					
Inner Diameter (in)	8.914					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	2188					
Bottom Logger (ft)	2188					

Borehole Fluids

Parameter(unit)	Run 1					
Fluid Type	Oil					
Fluid Name	Diesel					
Max Recorded Temperatures (degF)	220					
Source of Sample	Active Tank					
Salinity (ppm)	0					
Density (lbm/gal)	9.4					
Funnel Viscosity (s)	48					
Fluid Loss (cm3)	6					
PH	9					
Date/Time Circulation Stopped	15-Jun-2013 22:30:00					
Date Logger on Bottom	16-Jun-2013					
Time Logger on Bottom	08:00:11					
Source RMF	Calculated					
RMC	Calculated					
RM @ Meas Temp (ohm.m@degF)	N/A					
RMF @ Meas Temp (ohm.m@degF)	N/A					
RMC @ Meas Temp (ohm.m@degF)	N/A					

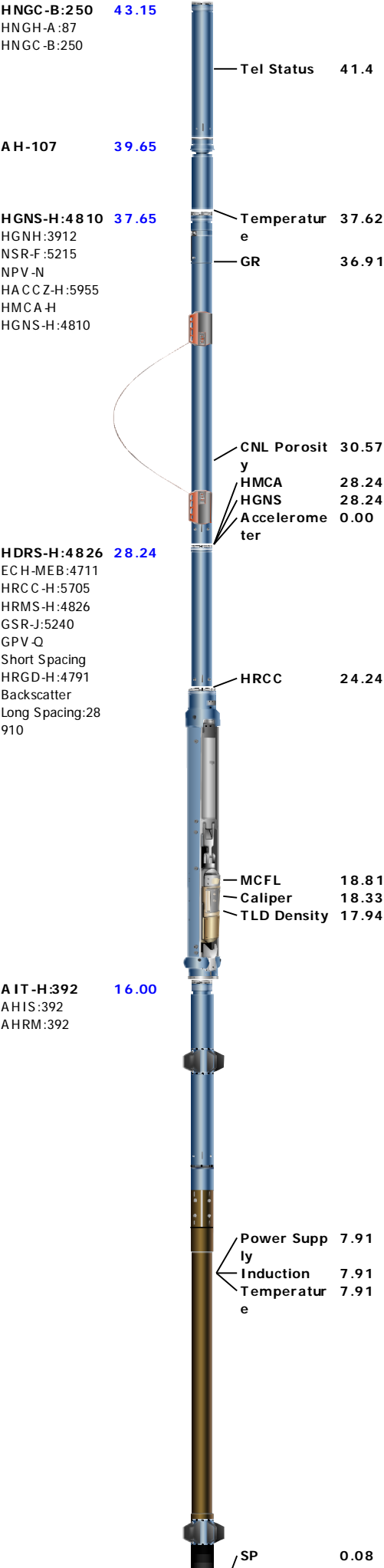
ohm.m@degF)						
RM @ BHT (ohm.m@degF)	N/A					
RMF @ BHT (ohm.m@degF)	N/A					
RMC @ BHT (ohm.m@degF)	N/A					
Electricity Stability (V)						
Oil/Water						
Total Solid (%)						
High Gravity Solids (%)						

Remarks and Equipment Summary

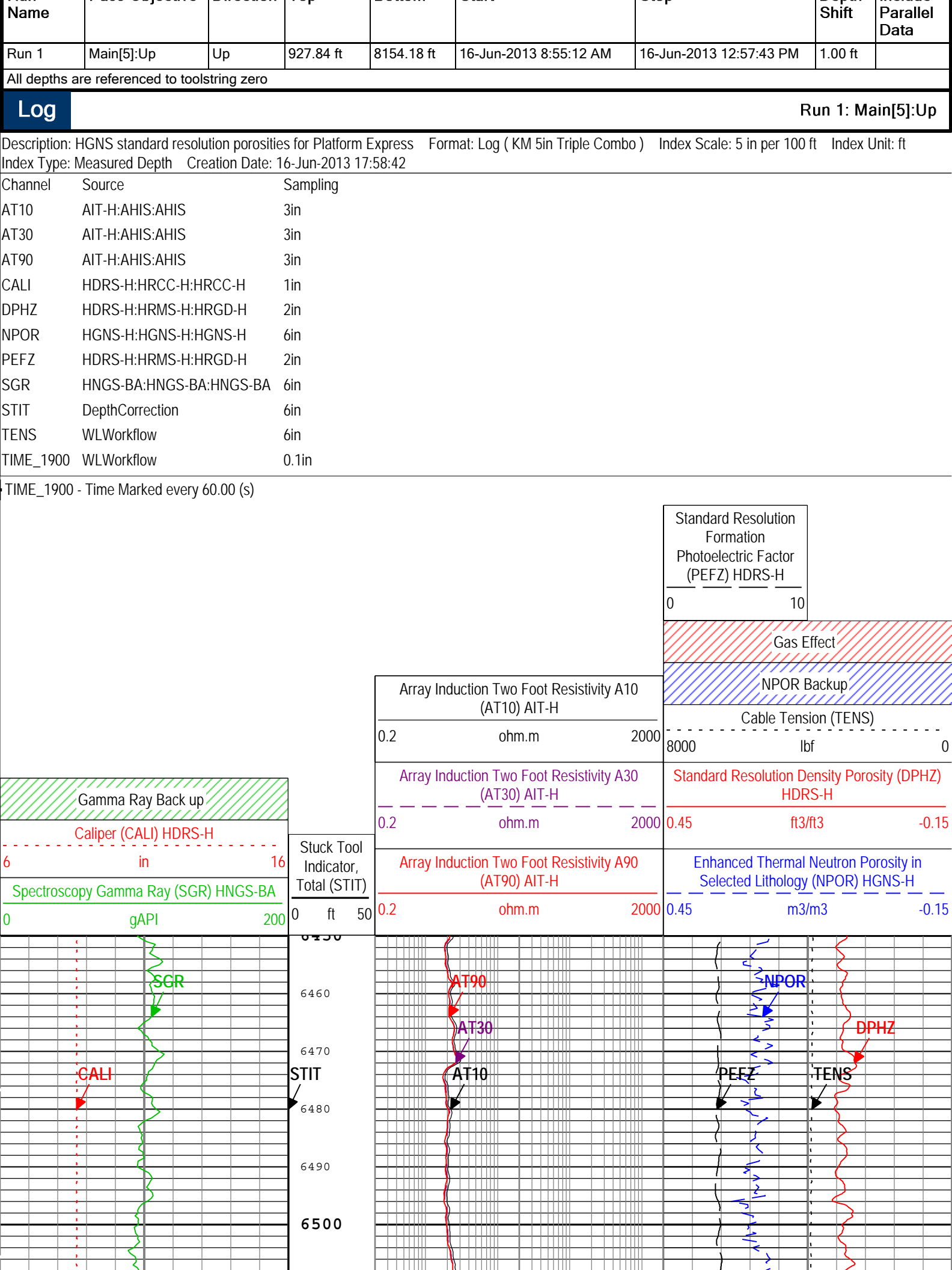
Run 1: Toolstring				Run 1: Remarks
Equip name	Length	MP name	Offset	All Schlumberger depth control procedures followed. IDW used as primary depth device. Z Chart used as secondary depth device. Crew: Max Pace, Troy Ocana, Ian Derry Tebo 33 1P
LEH-QT	121.06			
LEH-QT				
EDTC-B:8593	118.14			
EDTH-B:8625				
EDTG-A:77756				
EDTC-B:8593				
		CTEM	114.64	
		ACCZ	0.00	
		HV	0.00	
		Gamma Ray	112.77	
		TelStatus	111.64	
MAST-B:8181	111.64			
ECH-SF:8023				
MAPC-BA:8023				
MAMS-BA:8181				
MASS-BA:8073				
MAXS-BA:8078				
		MAMS	96.2	

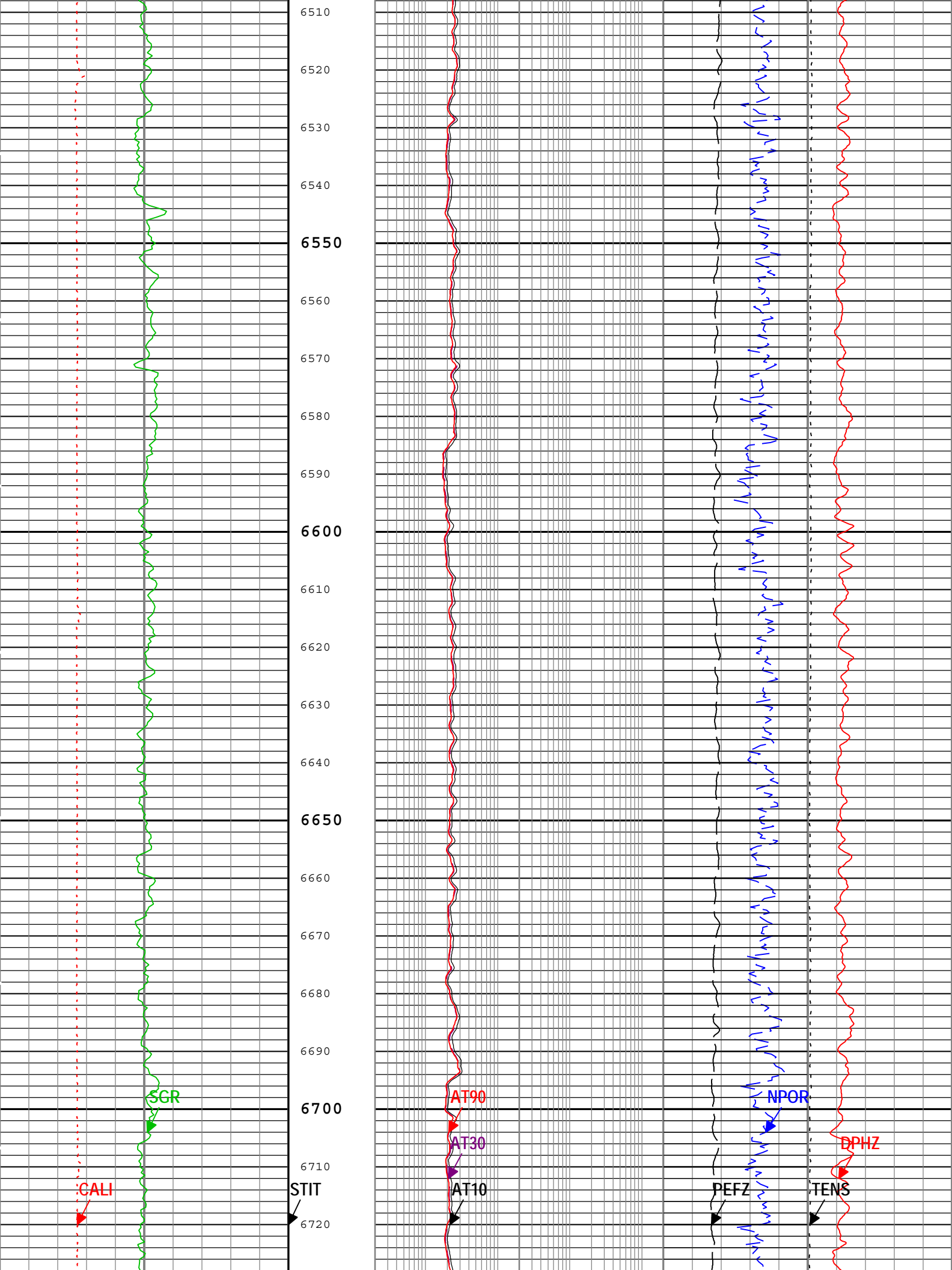


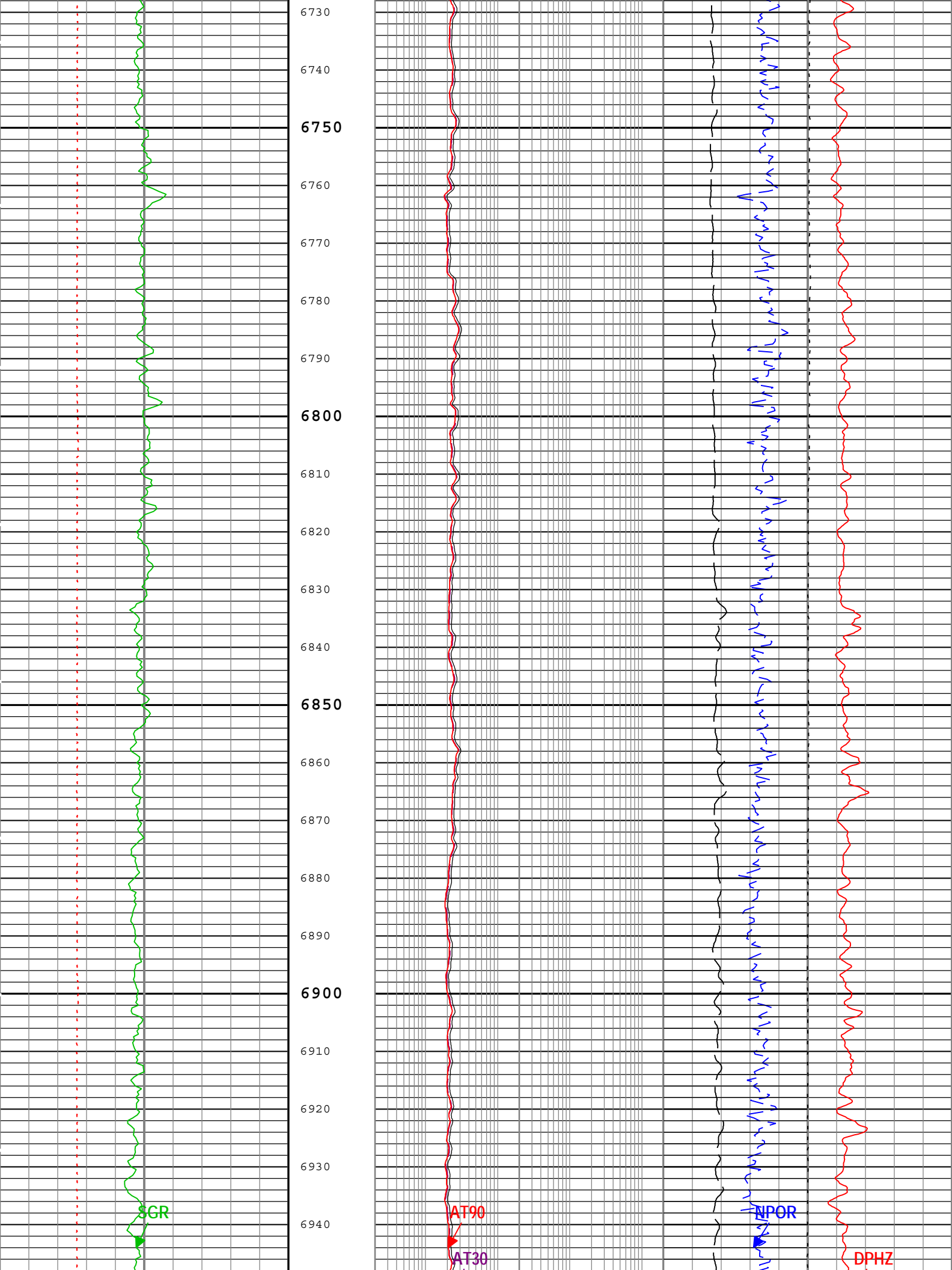
PPC-B:8195	70.36	MAXS	70.36
PPC-B:8195		PPC-B Calipers	69.21
AH-184[2]	63.84		
GPIT-F:770	61.84		
GPIH-B			
DHRU-F:799		GPIT-F Incl	60.42
GPIC-F:770		inometer	
Weight	57.84	GPIT	0.00
AH-184[1]	53.34		
HNGS-BA:152	51.34		
HEH-K:149			
HNGS-BA:152			
		GR	48.35

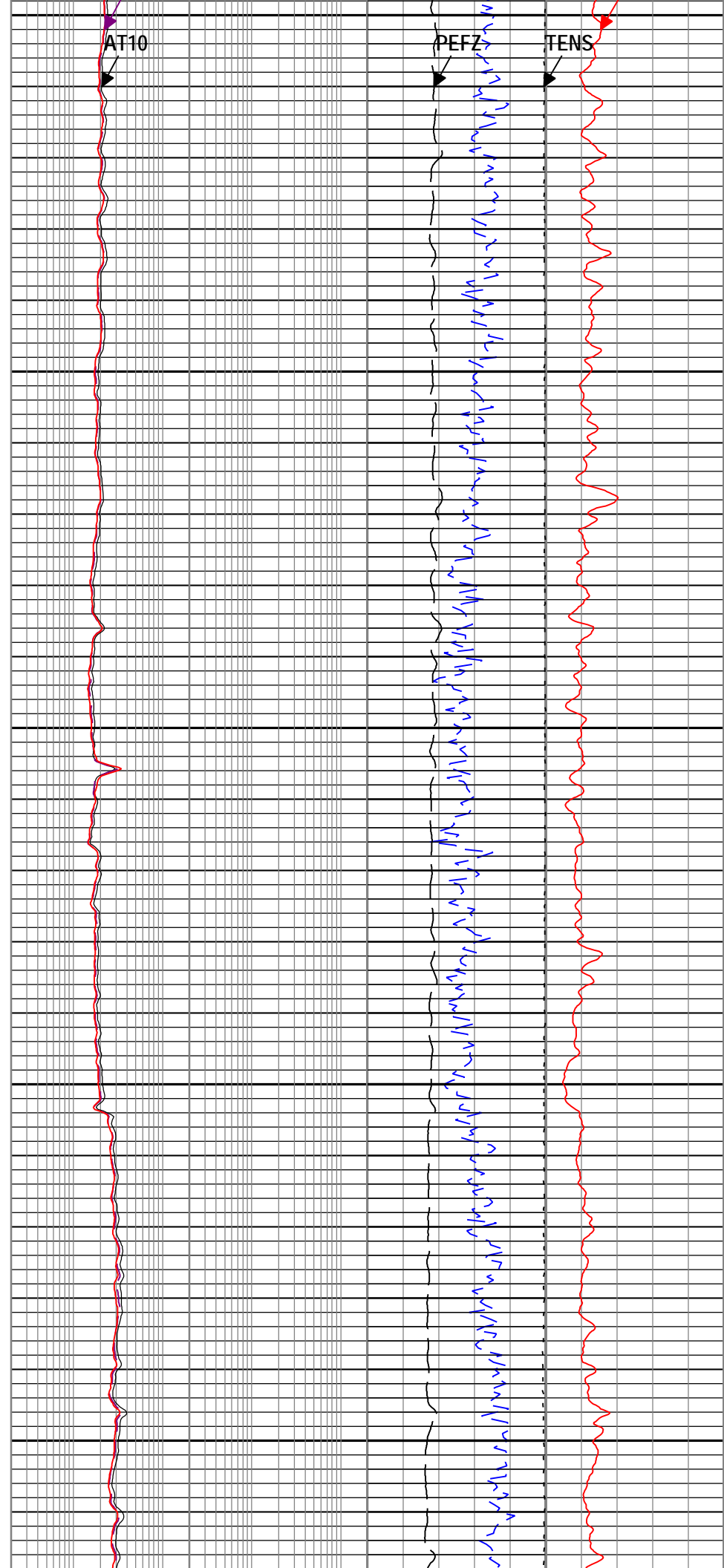
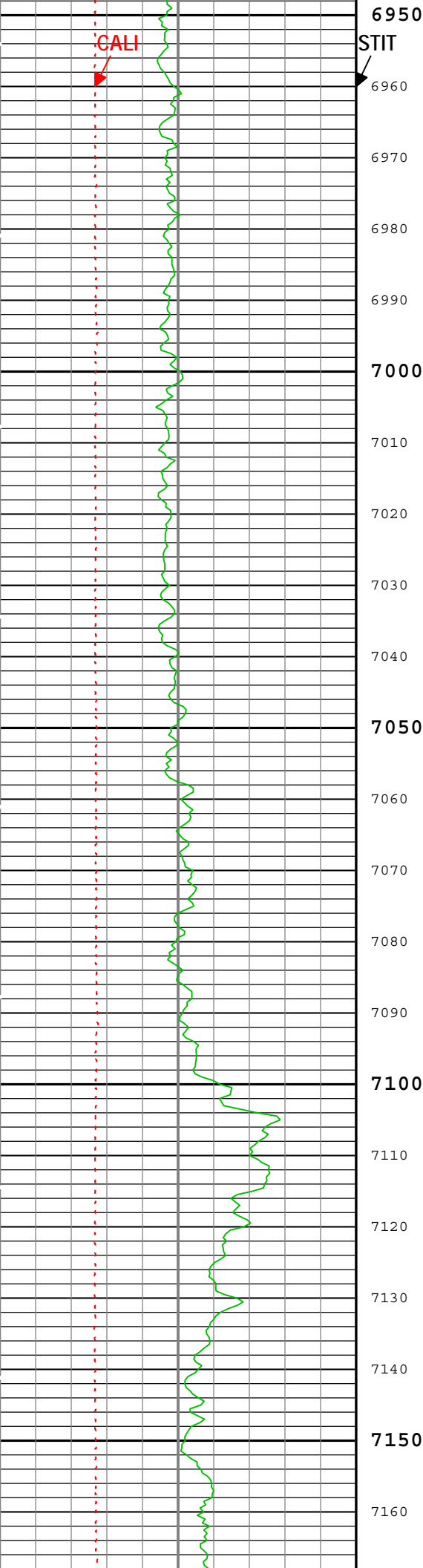


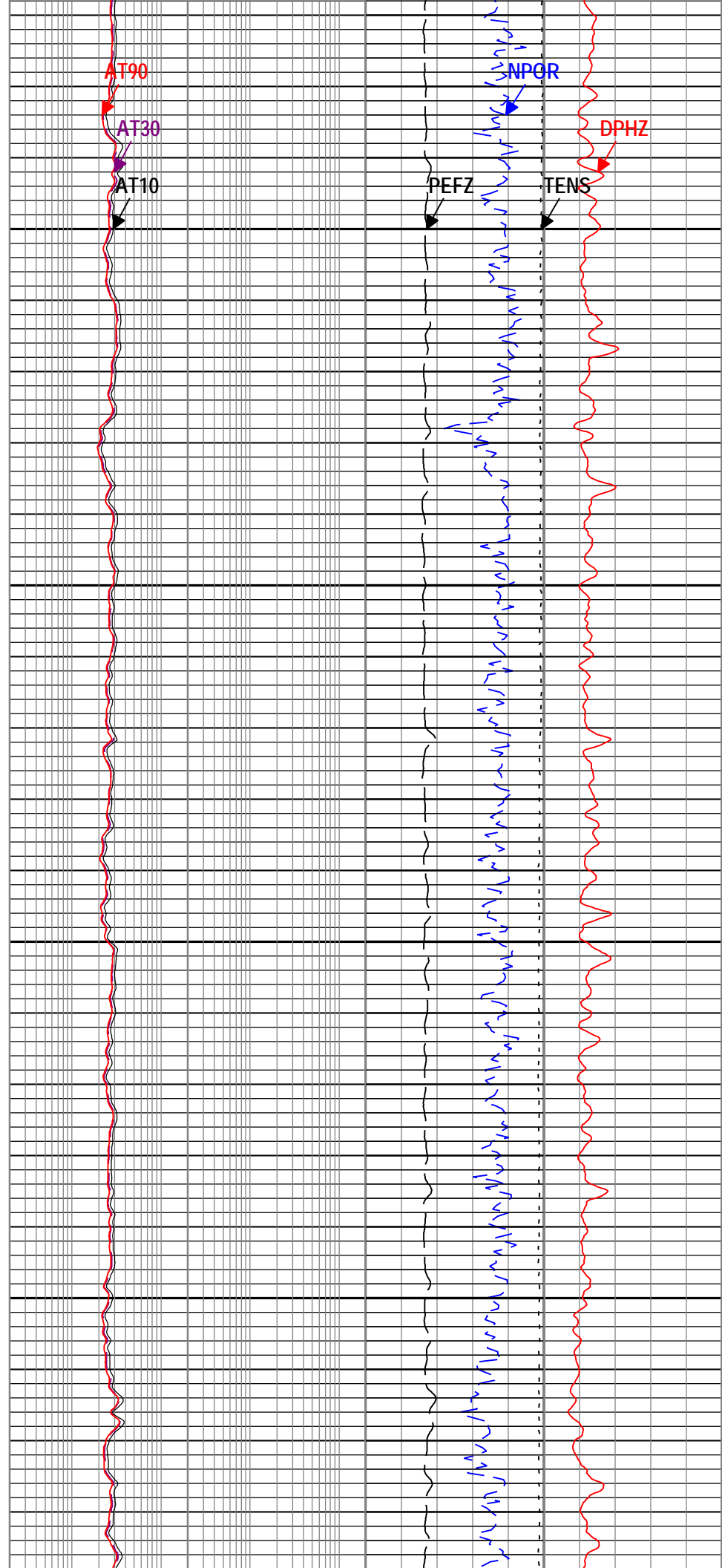
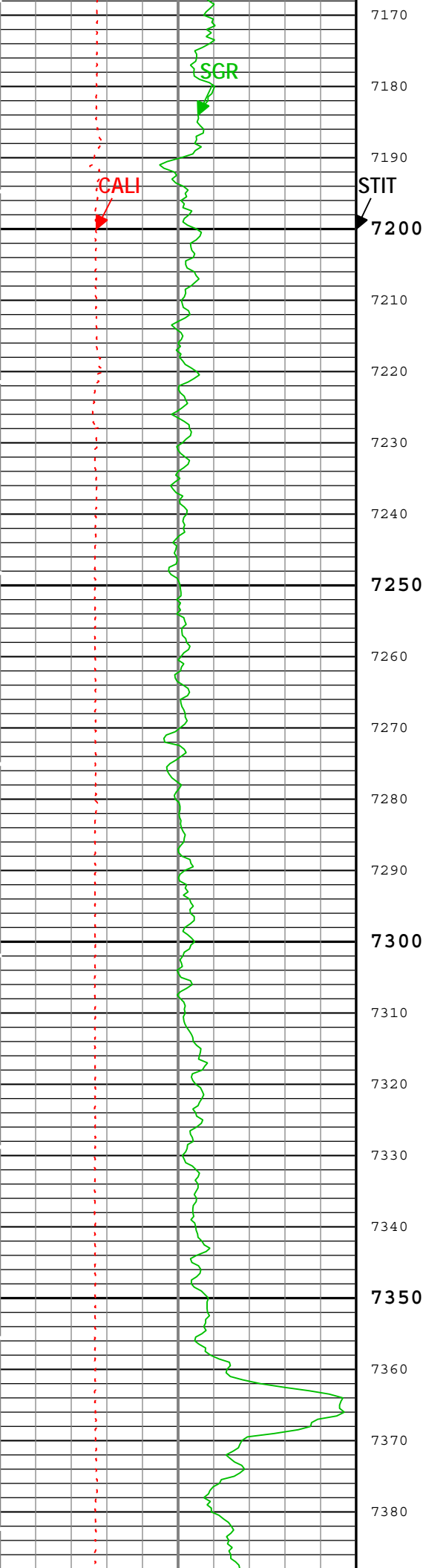
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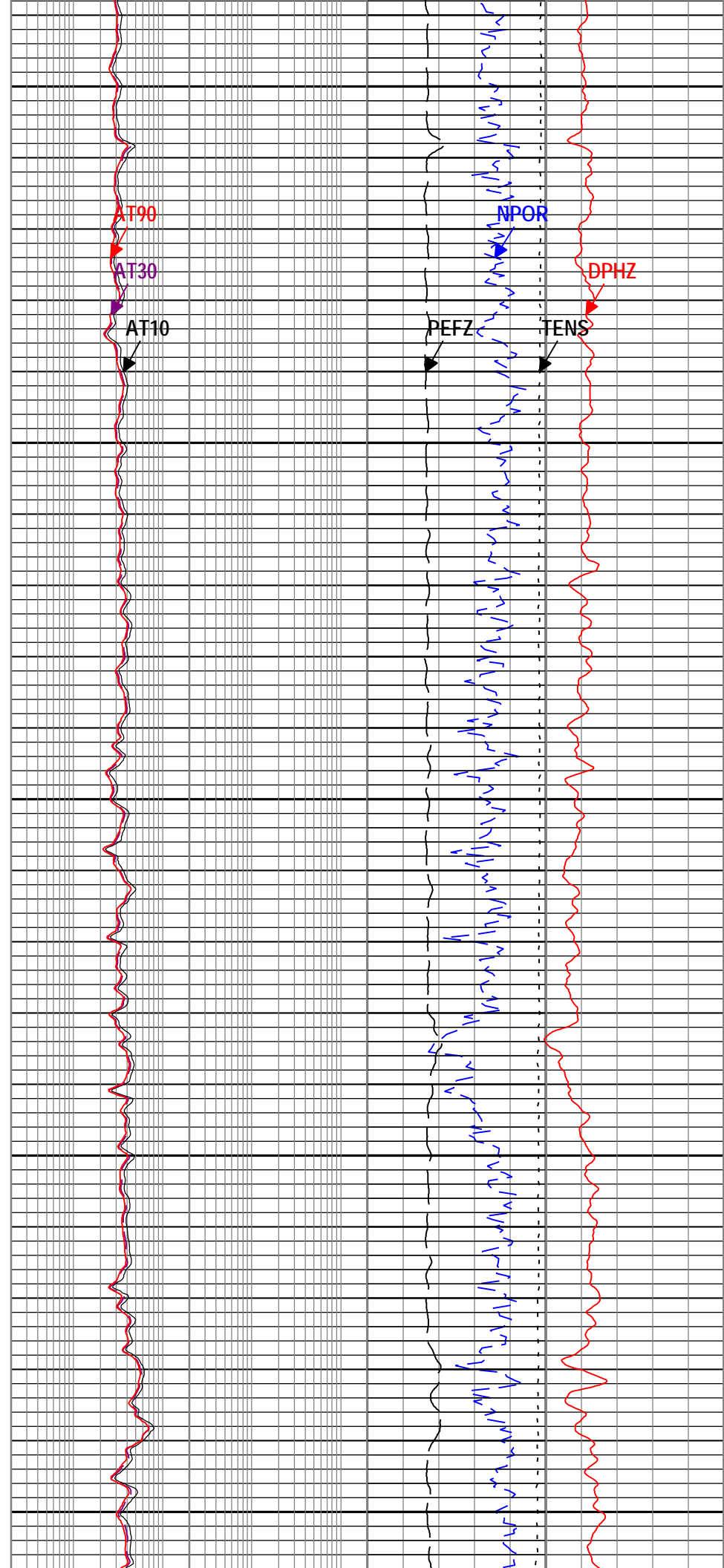
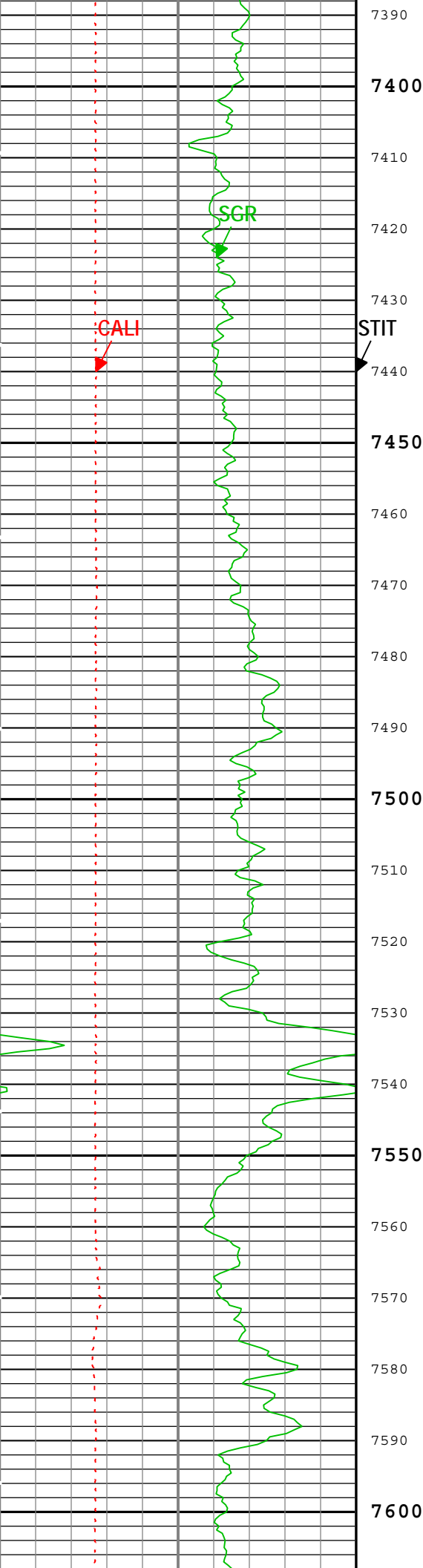


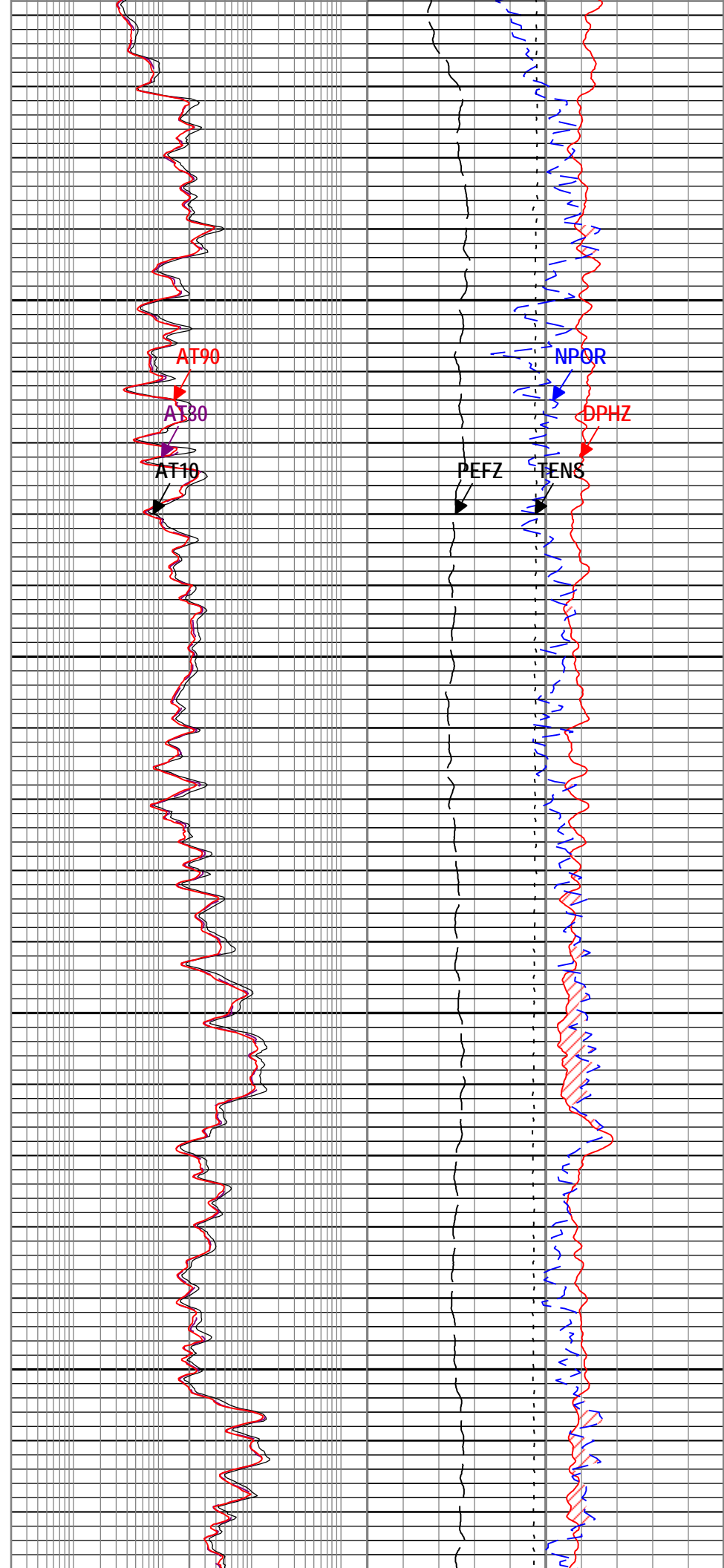
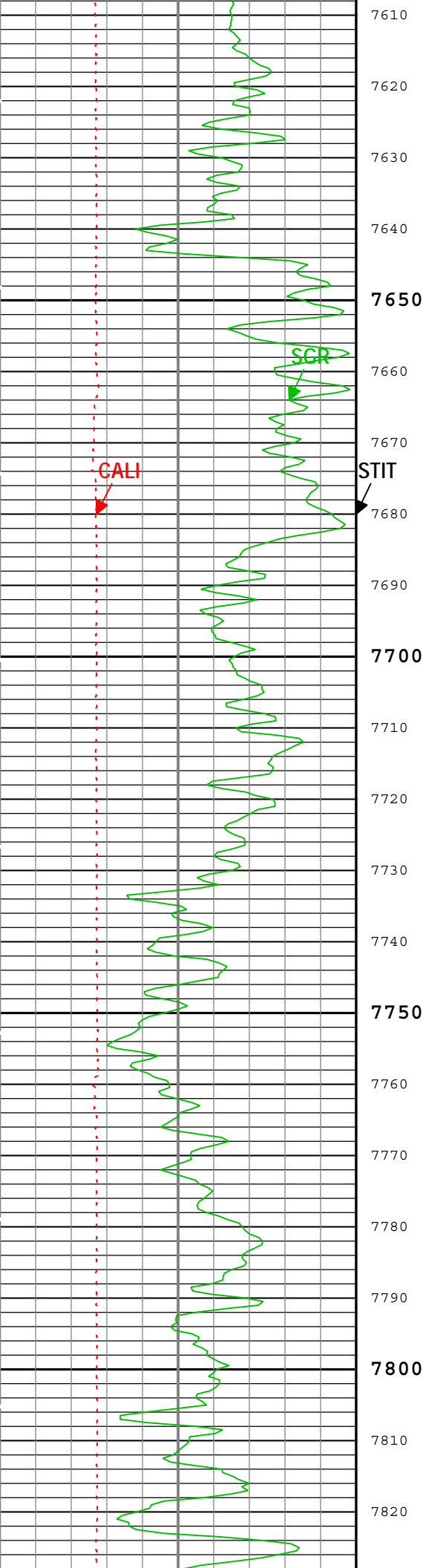


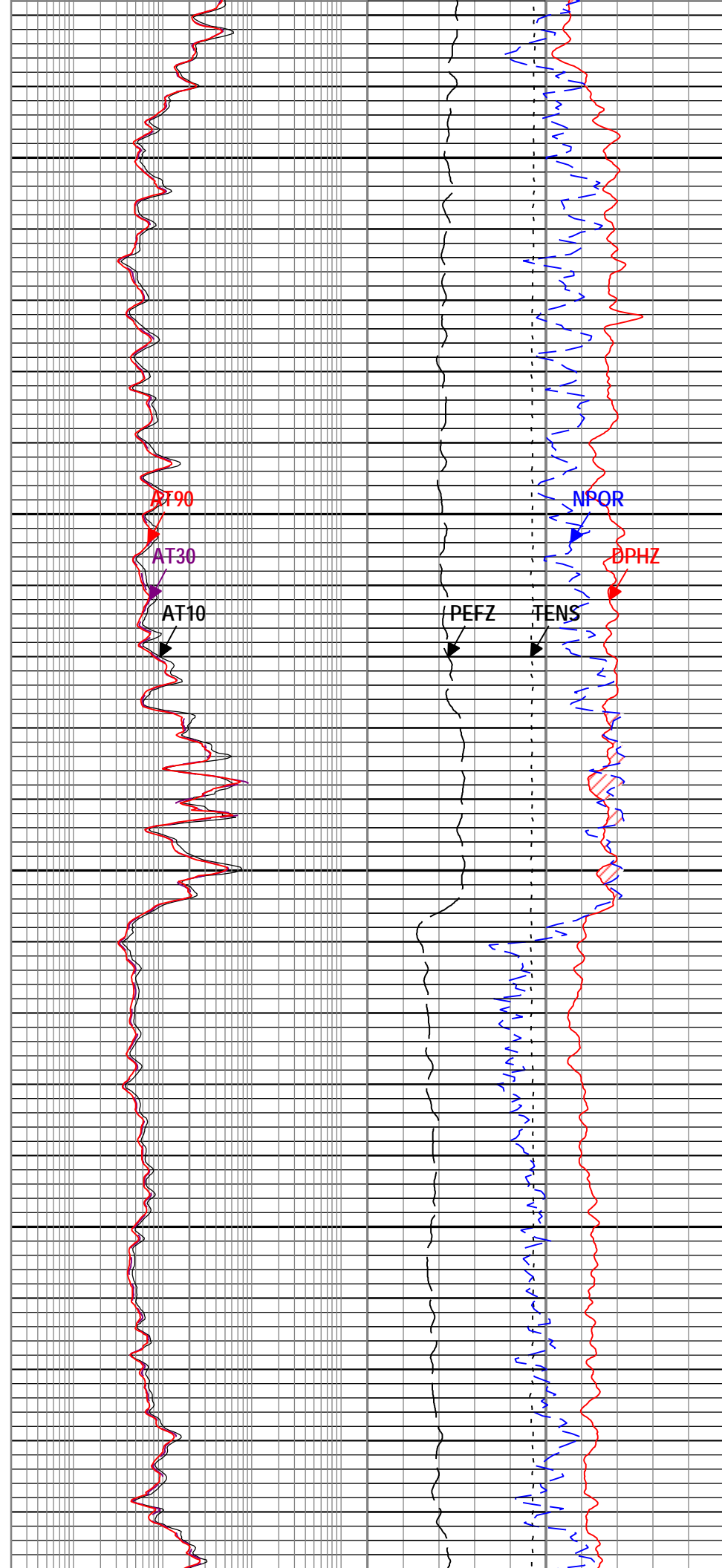
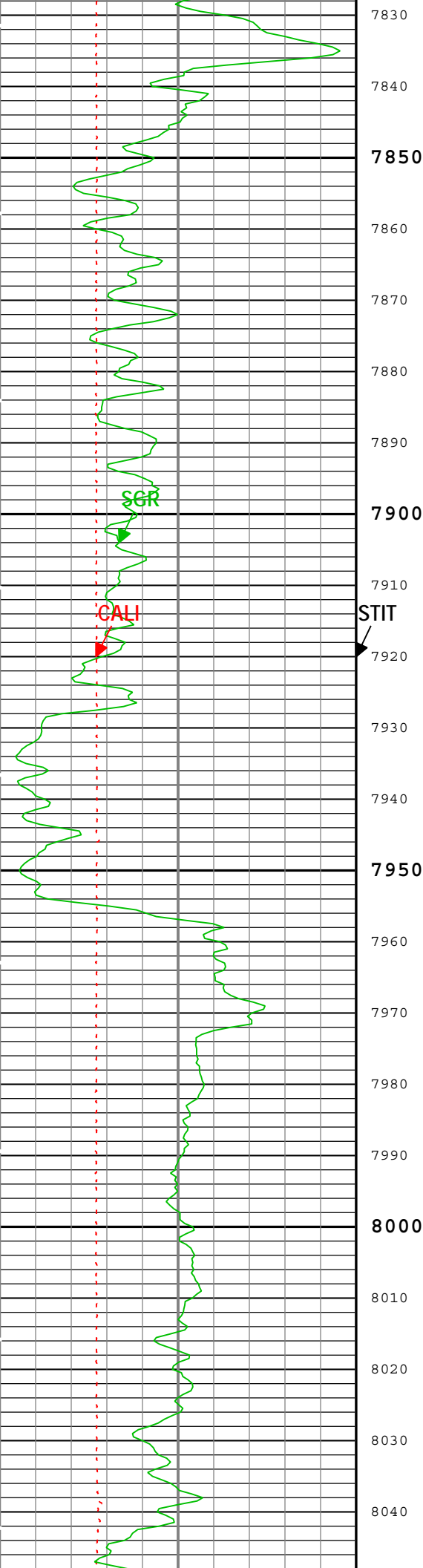


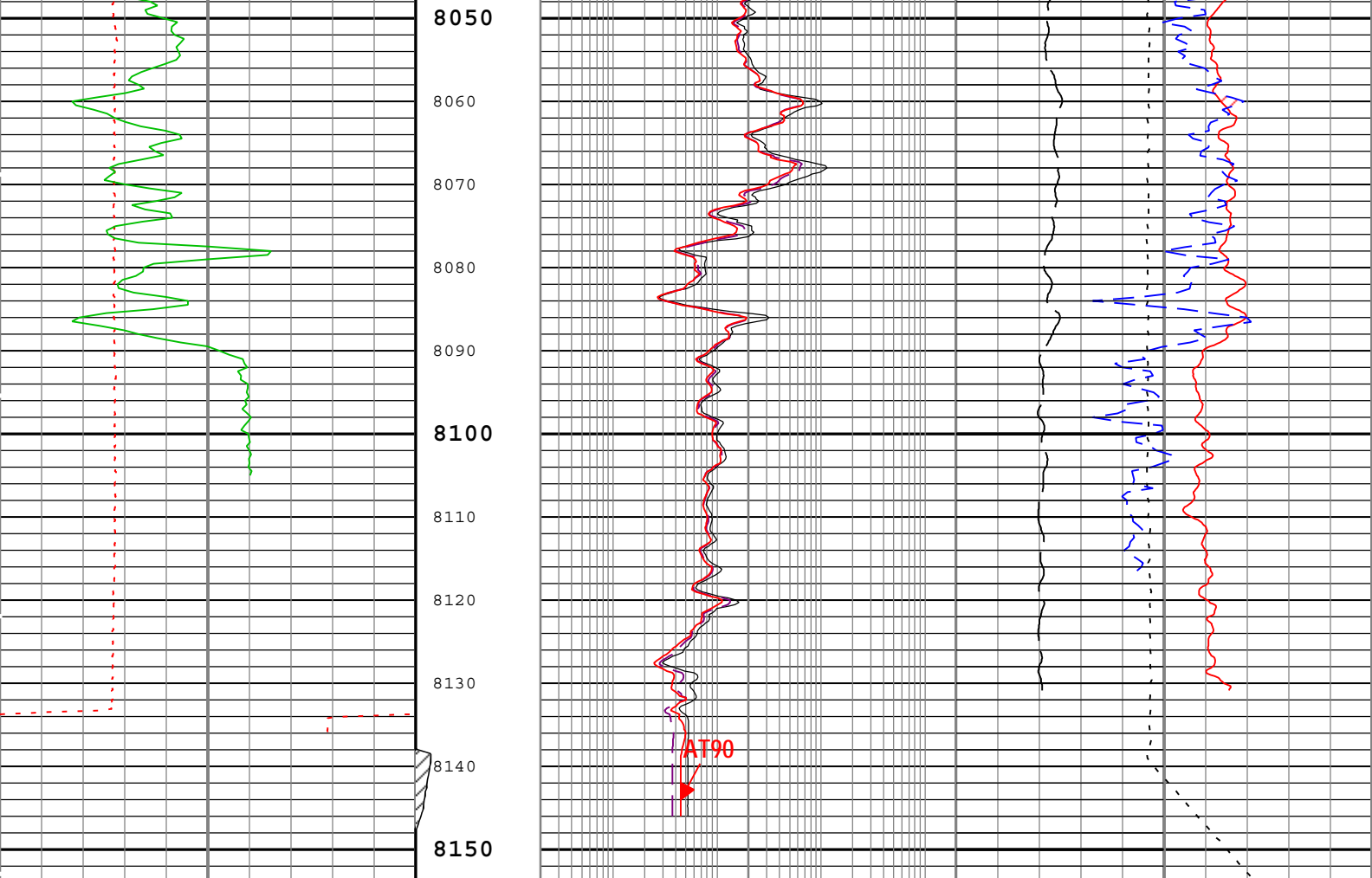












Gamma Ray Back up		
Calliper (CALI) HDRS-H		
6	in	16
Spectroscopy Gamma Ray (SGR) HNGS-BA		
0	gAPI	200

Stuck Tool Indicator, Total (STIT)		
0	ft	50

Array Induction Two Foot Resistivity A10 (AT10) AIT-H		
0.2	ohm.m	2000
Array Induction Two Foot Resistivity A30 (AT30) AIT-H		
0.2	ohm.m	2000
Array Induction Two Foot Resistivity A90 (AT90) AIT-H		
0.2	ohm.m	2000

Gas Effect		
NPOR Backup		
Cable Tension (TENS)		
8000	lbf	0
Standard Resolution Density Porosity (DPHZ) HDRS-H		
0.45	ft3/ft3	-0.15
Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H		
0.45	m3/m3	-0.15
Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H		
0		10

TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (KM 5in Triple Combo) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 16-Jun-2013 17:58:42

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-H	Compute Mud Resistivity	
ABLM	Array Induction Basic Logs Mode	AIT-H	Normal	
ACDE	Array Induction Casing Detection Enable	AIT-H	Yes	
BARI	Barite Mud Presence Flag	Borehole	No	

BHK	Drilling Fluid Potassium Concentration	Borehole	0	%
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	8.75	in
BSAL	Borehole Salinity	Borehole	0	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0.08	in
CBLO	Casing Bottom (Logger)	WLSESSION	2188	ft
DBCC	Barite Constant Correction Flag	HNGS-BA	None	
DFD	Drilling Fluid Density	Borehole	9.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Oil	
DFT_WATER	Drilling Fluid Water Type	Borehole	Fresh Water	
DHC	Density Hole Correction	HDRS-H	Bit Size	
FD	Fluid Density	Borehole	1	g/cm3
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	CALI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
HCRB	Apply Borehole Potassium Correction	HNGS-BA	None	
HEMA	Hematite Presence Flag	Borehole	No	
HSCO	Hole Size Correction Option	HGNS-H	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.71	g/cm3
SGRC	Standard Gamma Ray Correction Flag	HNGS-BA	Yes	
SOCO	Standoff Correction Option	HGNS-H	Yes	
TD	Total Measured Depth	Borehole	8130	ft

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
HRGD_BRD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	Time Zoned	ft/h

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
MAX_LOG_SPEED	1754	16-Jun-2013 08:55:12	16-Jun-2013 09:00:17	8154.18	8061.02
MAX_LOG_SPEED	1800	16-Jun-2013 09:00:17	16-Jun-2013 09:02:20	8061.02	8006.69
MAX_LOG_SPEED	1704	16-Jun-2013 09:02:20	16-Jun-2013 09:04:23	8006.69	7952.66
MAX_LOG_SPEED	1800	16-Jun-2013 09:04:23	16-Jun-2013 09:09:30	7952.66	7817.98
MAX_LOG_SPEED	1714	16-Jun-2013 09:09:30	16-Jun-2013 09:14:37	7817.98	7684.07
MAX_LOG_SPEED	1800	16-Jun-2013 09:14:37	16-Jun-2013 12:27:36	7684.07	2086.09
MAX_LOG_SPEED	1797	16-Jun-2013 12:27:36	16-Jun-2013 12:30:40	2086.09	1992.08
MAX_LOG_SPEED	1800	16-Jun-2013 12:30:40	16-Jun-2013 12:32:43	1992.08	1931.72
MAX_LOG_SPEED	1720	16-Jun-2013 12:32:43	16-Jun-2013 12:34:45	1931.72	1869.48
MAX_LOG_SPEED	1800	16-Jun-2013 12:34:45	16-Jun-2013 12:57:43	1869.48	927.84

All depth are at tool zero.

Run 1

5" Triple Combo

Run 2 5" Triple Combo

Pass Summary

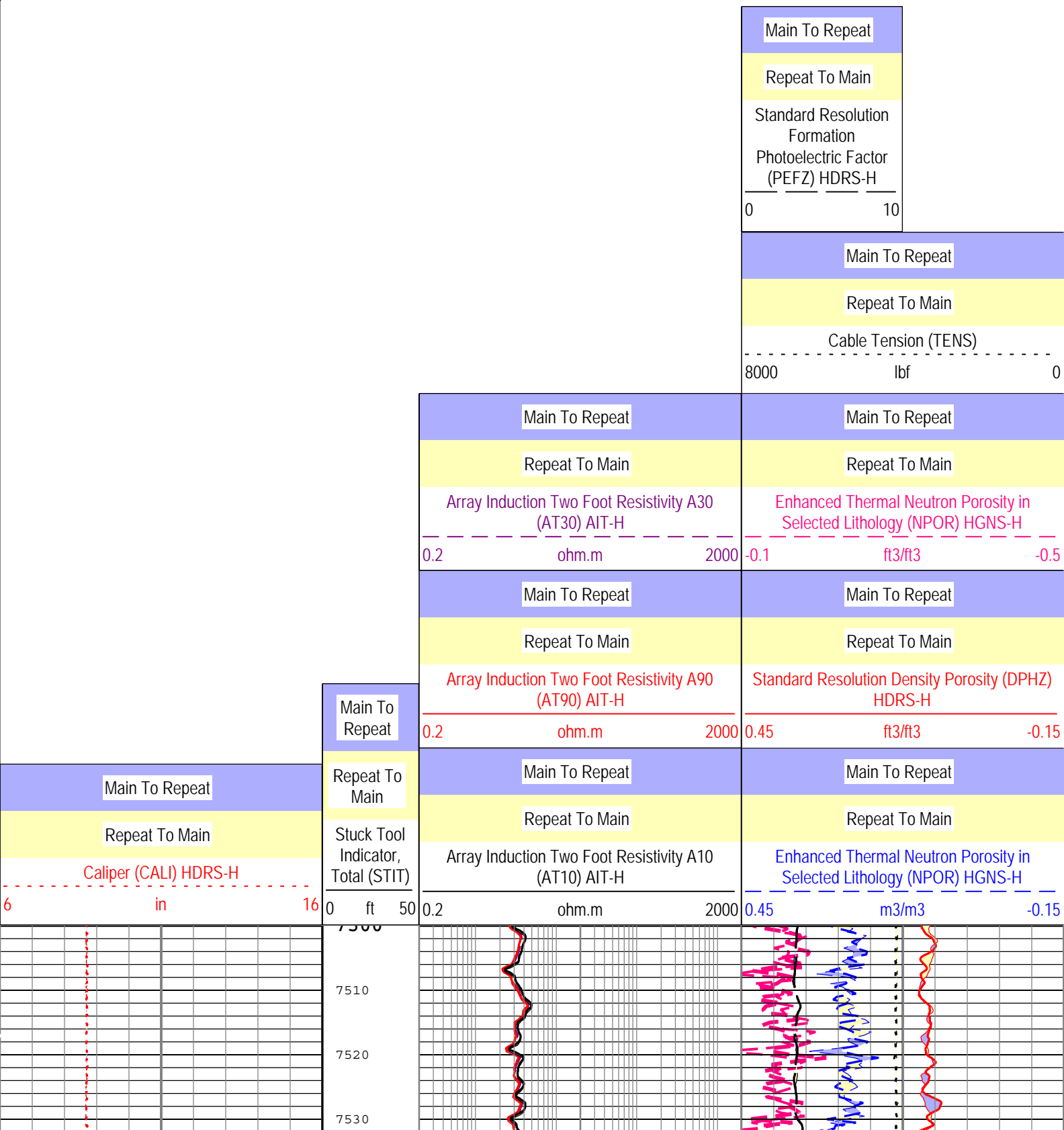
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run 1	Repeat[4]:Up	Up	7383.67 ft	8150.78 ft	16-Jun-2013 8:15:46 AM	16-Jun-2013 8:48:44 AM	0.00 ft	
Run 1	Main[5]:Up	Up	927.84 ft	8154.18 ft	16-Jun-2013 8:55:12 AM	16-Jun-2013 12:57:43 PM	1.00 ft	

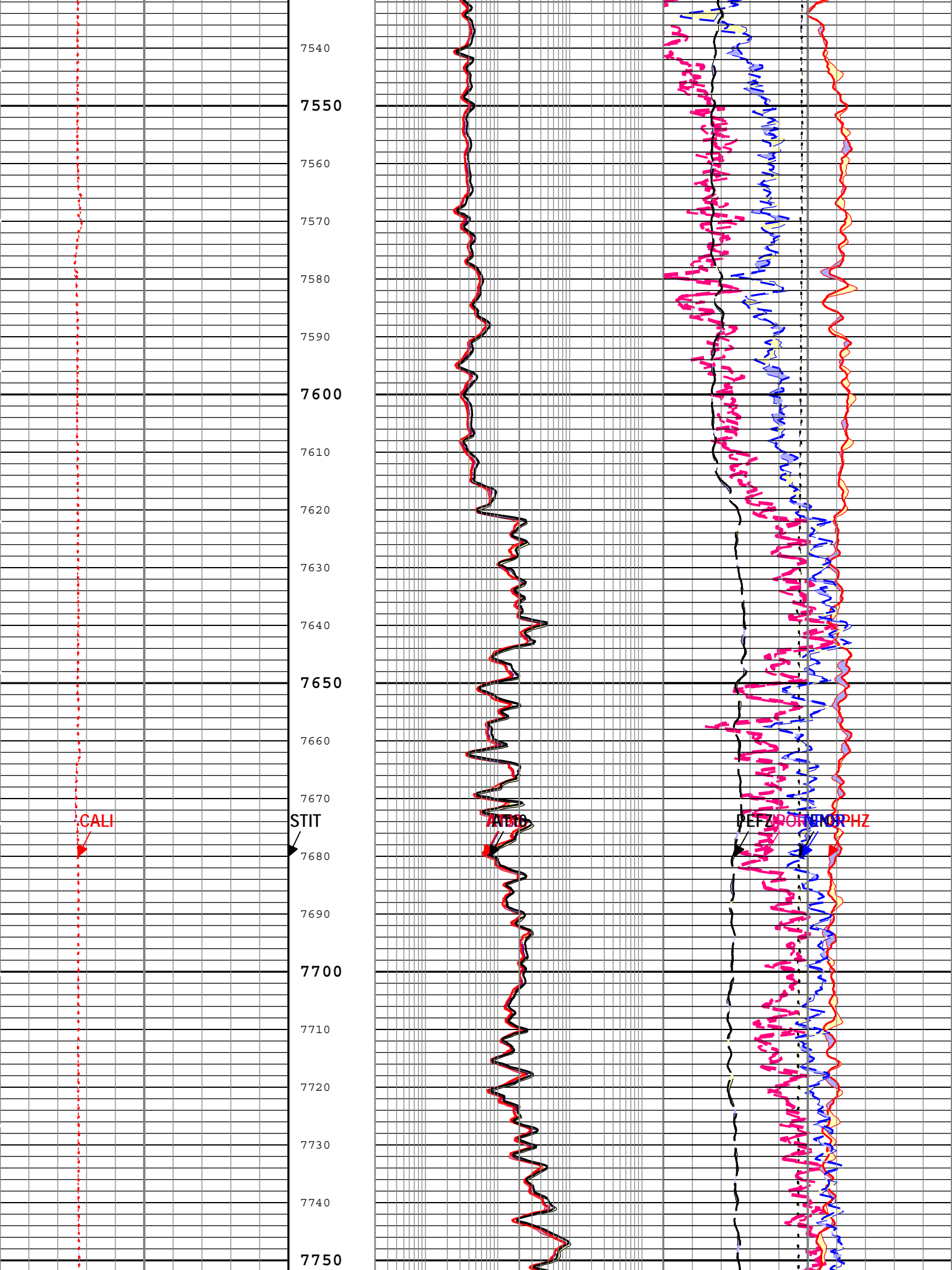
All depths are referenced to toolstring zero

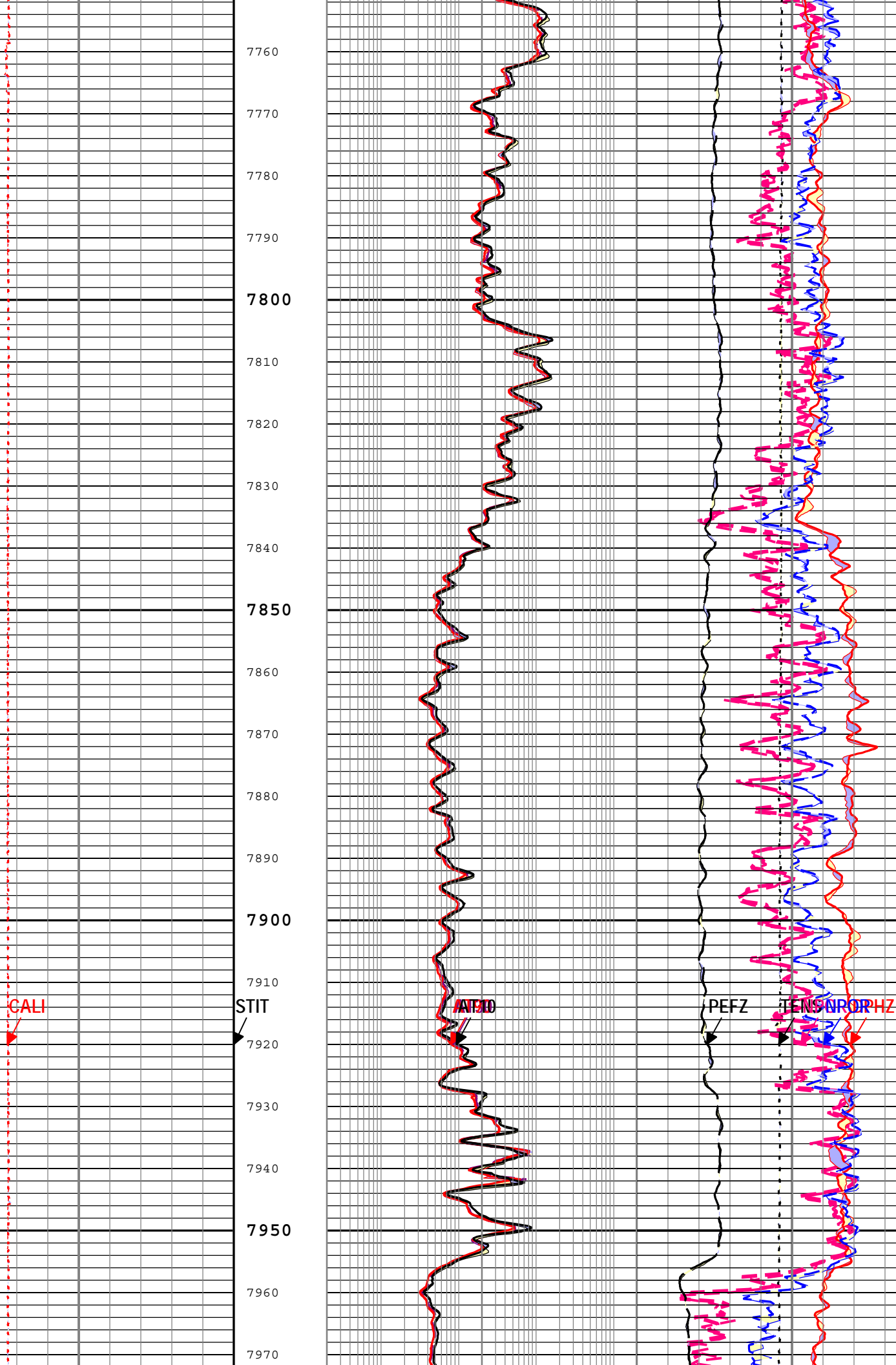
Log	Run 1: Main[5]:Up
-----	-------------------

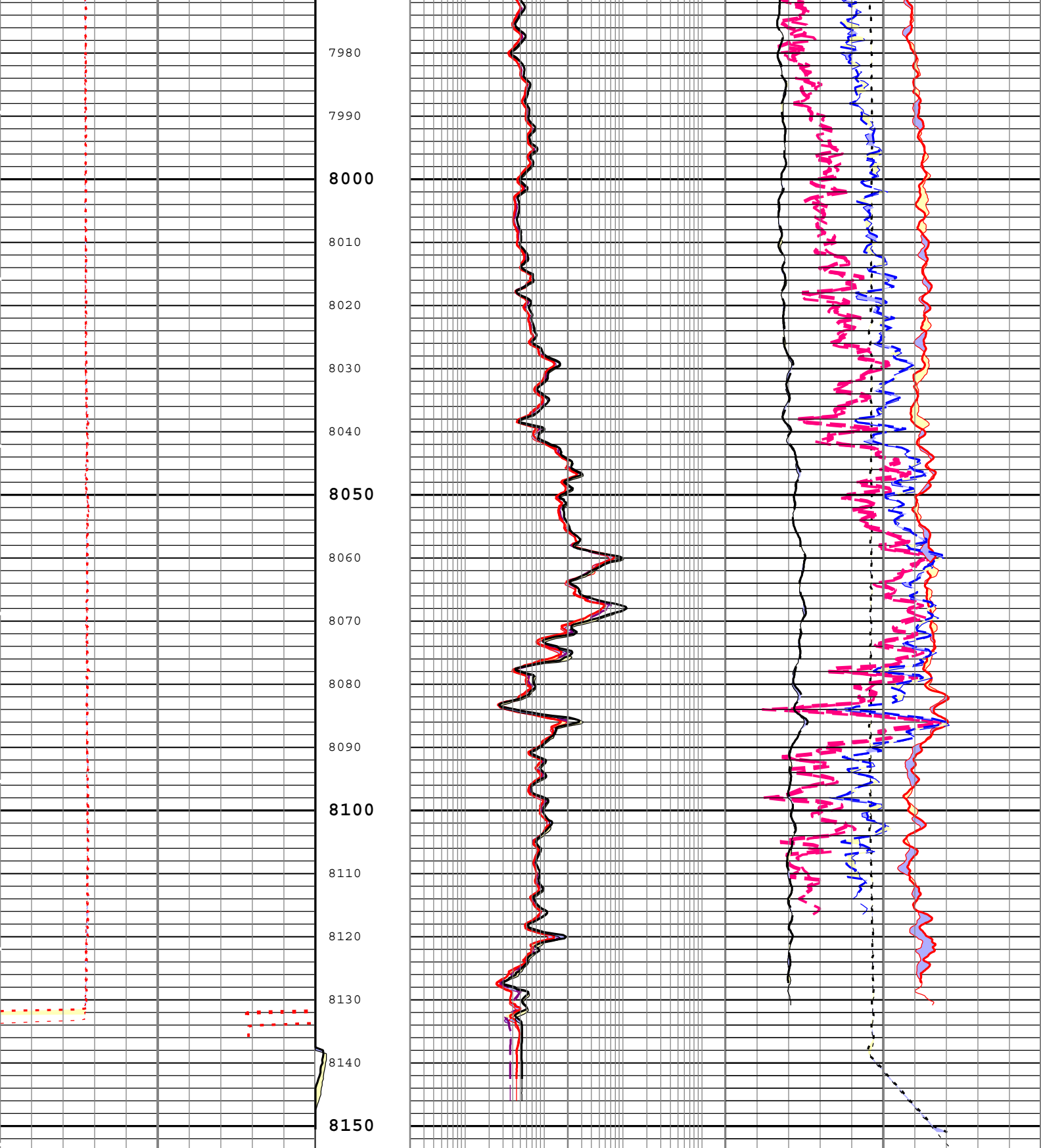
Description: HGNS standard resolution porosities for Platform Express Format: Log (KM 5in Triple Combo RA) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 16-Jun-2013 17:58:45

TIME_1900 - Time Marked every 60.00 (s)









Main To Repeat		Main To Repeat		Main To Repeat	
Repeat To Main		Repeat To Main		Repeat To Main	
Caliper (CALI) HDRS-H		Array Induction Two Foot Resistivity A30 (AT30) AIT-H		Cable Tension (TENS)	
6 in 16		0.2 ohm.m 2000		8000 lbf 0	
Main To Repeat		Main To Repeat		Main To Repeat	
Repeat To Main		Repeat To Main		Repeat To Main	




















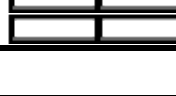
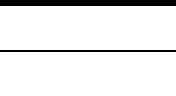


Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-76.348	119.000	
Sonde Error Correction Quad - 0		Master	-----	-2250.000	-582.816	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	189.772	204.000	
Sonde Error Correction Quad - 1		Master	-----	-625.000	-61.370	625.000	
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	107.478	156.000	
Sonde Error Correction Quad - 2		Master	-----	-350.000	-166.181	350.000	
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	66.578	89.000	
Sonde Error Correction Quad - 3		Master	-----	-250.000	138.883	250.000	
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	26.026	35.000	
Sonde Error Correction Quad - 4		Master	-----	-63.000	-39.654	63.000	
Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	14.273	24.000	
Sonde Error Correction Quad - 5		Master	-----	-50.000	4.841	50.000	
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	9.952	15.000	
Sonde Error Correction Quad - 6		Master	-----	-30.000	-12.937	30.000	
Sonde Error Correction Real - 7	mS/m	Master	-----	-5.000	0.728	5.000	
Sonde Error Correction Quad - 7		Master	-----	-30.000	-5.889	30.000	

AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM):		14:36:07 24-May-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.843	1.200	
Fine Gain		Master	1.000	0.800	0.850	1.200	

AIT Electronics Check - Thru Calibration Check

Master (EEPROM):		14:36:07 24-May-2013		Before (Measured):		23:12:08 15-Jun-2013		After:	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit			
Thru Cal Mag - 0	V	Master	-----	0.363	0.616	0.847			
		Before	-----	0.363	0.617	0.847			
		After	-----	-----	-----	-----			
		Before-Master	-----	-----	0.001	-----			
		After-Before	-----	-----	-----	-----			
Thru Cal Phase - 0	deg	Master	-----	11.000	72.868	131.000			
		Before	-----	11.000	73.012	131.000			
		After	-----	-----	-----	-----			
		Before-Master	-----	-----	0.144	-----			
		After-Before	-----	-----	-----	-----			
Thru Cal Mag - 1	V	Master	-----	0.762	1.260	1.778			
		Before	-----	0.762	1.261	1.778			
		After	-----	-----	-----	-----			
		Before-Master	-----	-----	0.001	-----			
		After-Before	-----	-----	-----	-----			
Thru Cal Phase - 1	deg	Master	-----	10.000	71.746	130.000			
		Before	-----	10.000	71.897	130.000			
		After	-----	-----	-----	-----			
		Before-Master	-----	-----	0.151	-----			
		After-Before	-----	-----	-----	-----			
Thru Cal Mag - 2	V	Master	-----	0.374	0.629	0.872			
		Before	-----	0.374	0.629	0.872			
		After	-----	-----	-----	-----			
		Before-Master	-----	-----	0.000	-----			
		After-Before	-----	-----	-----	-----			
Thru Cal Phase - 2	deg	Master	-----	6.000	67.985	126.000			
		Before	-----	6.000	68.150	126.000			
		After	-----	-----	-----	-----			
		Before-Master	-----	-----	0.165	-----			
		After-Before	-----	-----	-----	-----			
Thru Cal Mag - 3	V	Master	-----	0.422	0.711	0.986			
		Before	-----	0.422	0.711	0.986			
		After	-----	-----	-----	-----			
		Before-Master	-----	-----	0.000	-----			
		After-Before	-----	-----	-----	-----			
Thru Cal Phase - 3	deg	Master	-----	5.000	67.194	125.000			
		Before	-----	5.000	67.361	125.000			
		After	-----	-----	-----	-----			
		Before-Master	-----	-----	0.167	-----			
		After-Before	-----	-----	-----	-----			
Thru Cal Mag - 4	V	Master	-----	0.802	1.324	1.872			

Thru Cal Mag - 4	V	Master	----	0.802	1.324	1.872	
		Before	----	0.802	1.325	1.872	
		After	----	----	----	----	
		Before-Master	----	----	0.001	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 4	deg	Master	----	-1.000	60.874	119.000	
		Before	----	-1.000	61.076	119.000	
		After	----	----	----	----	
		Before-Master	----	----	0.202	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 5	V	Master	----	1.173	1.929	2.737	
		Before	----	1.173	1.931	2.737	
		After	----	----	----	----	
		Before-Master	----	----	0.002	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 5	deg	Master	----	-3.000	58.941	117.000	
		Before	----	-3.000	59.164	117.000	
		After	----	----	----	----	
		Before-Master	----	----	0.223	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 6	V	Master	----	1.173	1.928	2.737	
		Before	----	1.173	1.929	2.737	
		After	----	----	----	----	
		Before-Master	----	----	0.001	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 6	deg	Master	----	-3.000	58.955	117.000	
		Before	----	-3.000	59.176	117.000	
		After	----	----	----	----	
		Before-Master	----	----	0.221	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 7	V	Master	----	0.849	1.374	1.981	
		Before	----	0.849	1.377	1.981	
		After	----	----	----	----	
		Before-Master	----	----	0.003	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 7	deg	Master	----	-7.000	55.176	113.000	
		Before	----	-7.000	55.576	113.000	
		After	----	----	----	----	
		Before-Master	----	----	0.400	----	
		After-Before	----	----	----	----	
SPA Zero	mV	Master		-50.000	-0.190	50.000	
		Before		-50.000	-0.205	50.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.015	----	
		After-Before	----	----	----	----	
SPA Plus	mV	Master		941.000	992.325	1040.000	
		Before		941.000	992.011	1040.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.314	----	
		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	0.919	0.960	
		Before		0.870	0.919	0.960	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	

HDRS-H (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1

Primary Equipment :		
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	5705
HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H	4791
Auxiliary Equipment :		

HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	28910
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5240
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	5705
HILT High-Resolution Mechanical Sonde, 150 degC	HRMS-H	4826

Calibration Parameter :

Small Ring Size (Caliper Calibration Small Ring)	8.00
Large Ring Size (Caliper Calibration Large Ring)	12.00

HDRS Caliper Calibration - Caliper Accumulations

Before (Measured): 23:18:24 15-Jun-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.00	6.00	8.29	10.00	
Large Ring	in	Before	12.00	9.00	12.59	15.00	

HDRS Density Calibration - Inversion Results

Master (EEPROM): 10:10:00 24-May-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.596	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.689	1.696	
Pe Aluminum		Master	2.570	2.470	2.566	2.670	
Pe Magnesium		Master	2.650	2.550	2.606	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 10:10:00 24-May-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.3000	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.8601	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.4476	1.0000	
SS Max Deviation	%	Master	0	-2.5000	0.9232	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.5351	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.7521	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM): 10:10:00 24-May-2013 Before (Measured): 23:24:14 15-Jun-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7394		
		Before	0.7394	0.7024	0.7393	0.7763	
		Before-Master	-----	-----	-0.0001	-----	
BS Window Sum	1/s	Master	1		25990		
		Before	25990	24691	25946	27290	
		Before-Master	-----	-----	-44	-----	
SS Window Ratio		Master	1.0000		0.4848		
		Before	0.4848	0.4606	0.4832	0.5090	
		Before-Master	-----	-----	-0.0016	-----	
SS Window Sum	1/s	Master	1		11555		
		Before	11555	10977	11537	12133	
		Before-Master	-----	-----	-18	-----	
LS Window Ratio		Master	1.0000		0.3011		
		Before	0.3011	0.2860	0.3013	0.3161	
		Before-Master	-----	-----	0.0002	-----	
LS Window Sum	1/s	Master	1		1342		
		Before	1342	1275	1338	1409	
		Before-Master	-----	-----	-4	-----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 10:10:00 24-May-2013 Before (Measured): 23:24:14 15-Jun-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1298	2400	
		Before		1000	1303	2400	
		Before-Master	-----	-100	5	100	
SS PM High Voltage	V	Master		1000	1887	2400	
		Before		1000	1891	2400	
		Before-Master	-----	-100	4	100	

LS PM High Voltage	V	Master	1000	1299	2400	
		Before	1000	1298	2400	
		Before-Master	-----	-100	100	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM):		10:10:00 24-May-2013		Before (Measured):		23:24:14 15-Jun-2013	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	11.68	25.00	
		Before		5.00	11.92	25.00	
		Before-Master	-----	-1.00	0.24	1.00	
SS Crystal Resolution	%	Master		5.00	10.49	20.00	
		Before		5.00	10.38	20.00	
		Before-Master	-----	-1.00	-0.11	1.00	
LS Crystal Resolution	%	Master		5.00	8.44	20.00	
		Before		5.00	8.26	20.00	
		Before-Master	-----	-1.00	-0.18	1.00	

HDRS MCFL Calibration - MCFL Accumulations

Before (Measured):		23:12:49 15-Jun-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3854	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3790	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3809	4136	

HGNS-H (HILT Gamma-Ray and Neutron Sonde, 150 degC) Calibration - Run 1

Primary Equipment :			
HILT Gamma-Ray and Neutron Sonde, 150 degC	HGNS-H	4810	
Auxiliary Equipment :			
HGNS Accelerometer, 150 degC	HACCZ-H	5955	
AmBe Neutron Logging Source	NSR-F	5215	
Calibration Parameter :			
Water Temperature			
Housing Size			
JIG-BKG (Jig minus background reference)	165		

HGNS Accelerometer Calibration - Accelerometer Accumulations

Before (Measured):		06:54:31 16-Jun-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	ft/s2	Before	32.2	31.5	32.0	32.8	

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM):		00:00:00 15-Jan-2007					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Accelerometer Manufacturer		Master			QAT_160		
Accelerometer Reference Temperature	degF	Master		30.2	77.0	122.0	
Accelerometer Coefficients - 0		Master	-----	-----	1155.700	-----	
Accelerometer Coefficients - 1		Master	-----	-----	26.890	-----	
Accelerometer Coefficients - 2		Master	-----	-----	-0.008	-----	
Accelerometer Coefficients - 3		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 4		Master	-----	-----	2.748	-----	
Accelerometer Coefficients - 5		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 6		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 7		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 8		Master	-----	-----	298.600	-----	
Accelerometer Coefficients - 9		Master	-----	-----	0.983	-----	

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM):		11:01:24 28-Mar-2013		Before (Measured):		23:14:29 15-Jun-2013		After:	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit			
Near Zero Measurement	1/s	Master	0	5.0	24.4	40.0			
		Before	0	5.0	25.8	40.0			
		After	-----	-----	-----	-----			
		Before-Master	-----	-3.7	1.4	3.7			

		After-Before	----	----	----		
Far Zero Measurement	1/s	Master	0	5.0	27.4	40.0	
		Before	0	5.0	27.6	40.0	
		After	----	----	----	----	
		Before-Master	----	-4.1	0.2	4.1	
		After-Before	----	----	----	----	
Near Plus Measurement - 0	1/s	Master	6031.0	4700.0	5254.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Far Plus Measurement - 0	1/s	Master	2793.0	1900.0	2183.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Near Corrected Plus Measurement - 0	1/s	Master		4700.0	5342.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Far Corrected Plus Measurement - 0	1/s	Master		1900.0	2227.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured):		23:21:49 15-Jun-2013		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	74.4	120.0	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RGR Plus Measurement	gAPI	Before	185.4	157.1	165.9	206.3	
		After	----	----	NOT DONE	----	
		After-Before	----	----	----	----	
GR Calibration Gain		Before	0.89	0.80	0.99	1.05	
		After	----	----	----	----	
		After-Before	----	----	----	----	

Company:	Conoco Phillips Company	Schlumberger
Well:	Tebo 33 1P	
Field:	Wildcat	
County:	Arapahoe	
State:	Colorado	
Platform Express		
Triple Combo		