

Company: Omimex Petroleum Inc

Well: Kennedy State 1 1 36 7 45

Field: Holyoke South

County: Phillip State: Colorado

Platform Express  
Directional Survey

County:	Phillip		
Field:	Holyoke South		
Location:	2226 FSL 2470 FWL		
Well:	Kennedy State 11 36 7 45		
Company:	Omimex Petroleum Inc		
Location:		2226 FSL 2470 FWL	Elev.: K.B. 3775.00 ft G.L. 3769.00 ft D.F. 3775.00 ft
		Permanent Datum:	Ground Level
		Log Measured From:	Kelly Bushing
		Drilling Measured From:	Kelly Bushing
API Serial No.		Section:	Township:
05-0095-06467		36	7N
			Range:
			45W

Logging Date	19-Nov-2014		
Run Number	Run 1		
Depth Driller	2792.00 ft		
Schlumberger Depth	2792.00 ft		
Bottom Log Interval	2792.00 ft		
Top Log Interval	475.60 ft		
Casing Driller Size @ Depth	7 in @ 477.10 ft		
Casing Schlumberger	475.6 ft		
Bit Size	6.25 in		
Type Fluid In Hole	Water		
Density	9.3 lbm/gal	33 s	
Fluid Loss	PH	8	
MUD			
Source of Sample			
RM @ Meas Temp	0.62 ohm.m	@	75 degF
RMF @ Meas Temp	0.47 ohm.m	@	75 degF
RMC @ Meas Temp	0.78 ohm.m	@	75 degF
Source RMF	Calculated	Calculated	
RM @ BHT	0.23 @ 212	0.18 @ 212	
Max Recorded Temperatures	114 degF		
Circulation Stopped	18-Nov-2014	19:00:00	
Logger on Bottom	19-Nov-2014	01:00:00	
Unit Number	3022	Fort Morgan	
Recorded By	Tezla Hayduk		
Witnessed By	Paul Dekaye		

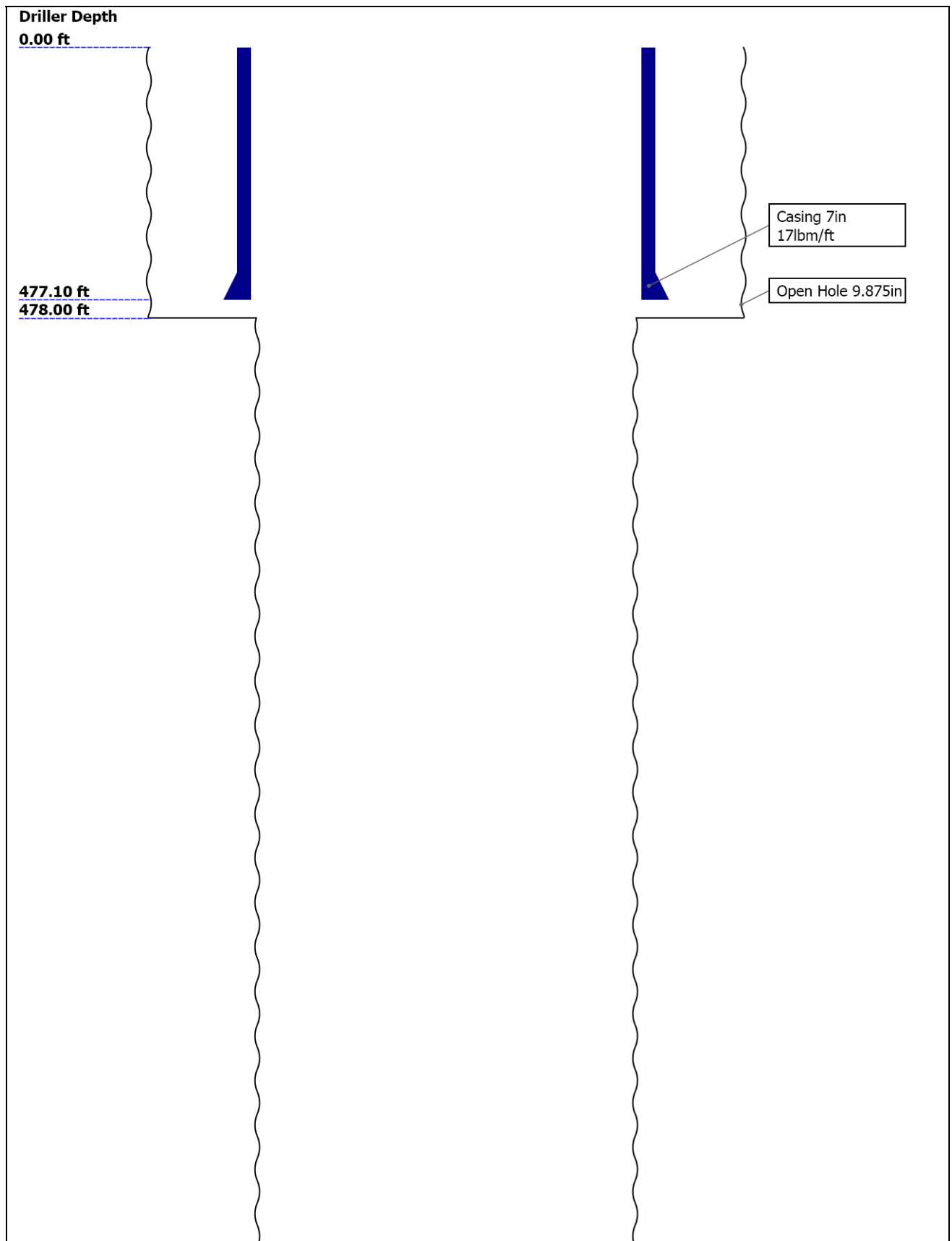
Disclaimer

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## Well Sketch





Borehole Size/Casing/Tubing Record						
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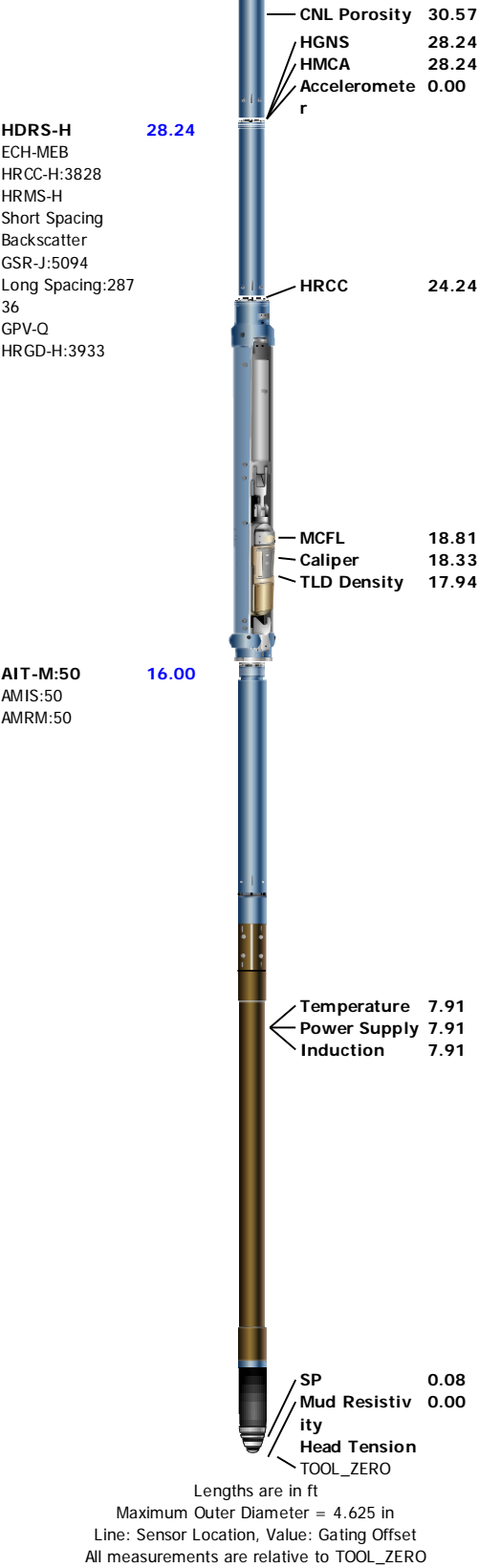
Bit						
Bit Size ( in )	9.875	6.25				
Top Driller ( ft )	0	478				
Top Logger ( ft )	0	478				
Bottom Driller ( ft )	478	2792				
Bottom Logger ( ft )	478	2792				
Casing						
Size ( in )	7					
Weight ( lbm/ft )	17					
Inner Diameter ( in )	6.538					
Grade	N/A					
Top Driller ( ft )	0					
Top Logger ( ft )	0					
Bottom Driller ( ft )	477.1					
Bottom Logger ( ft )	475.6					

Operational Run Summary						
-------------------------	--	--	--	--	--	--

Parameter ( unit )	Run 1					
Date Log Started	19-Nov-2014					
Time Log Started	00:30:42					
Date Log Finished	19-Nov-2014					
Time Log Finished	01:54:29					
Top Log Interval ( ft )	475.60					
Bottom Log Interval ( ft )	2792.00					
Total Depth ( ft )	2789.00					
Max Hole Deviation ( deg )	0.00					
Azimuth of Max Deviation ( deg )	0.00					
Bit Size ( in )	6.250					
Logging Unit Number	3022					
Logging Unit Location	Fort Morgan					
Recorded By	Tezla Hayduk					
Witnessed By	Paul Dekaye					
Service Order Number	CYPH-00033					

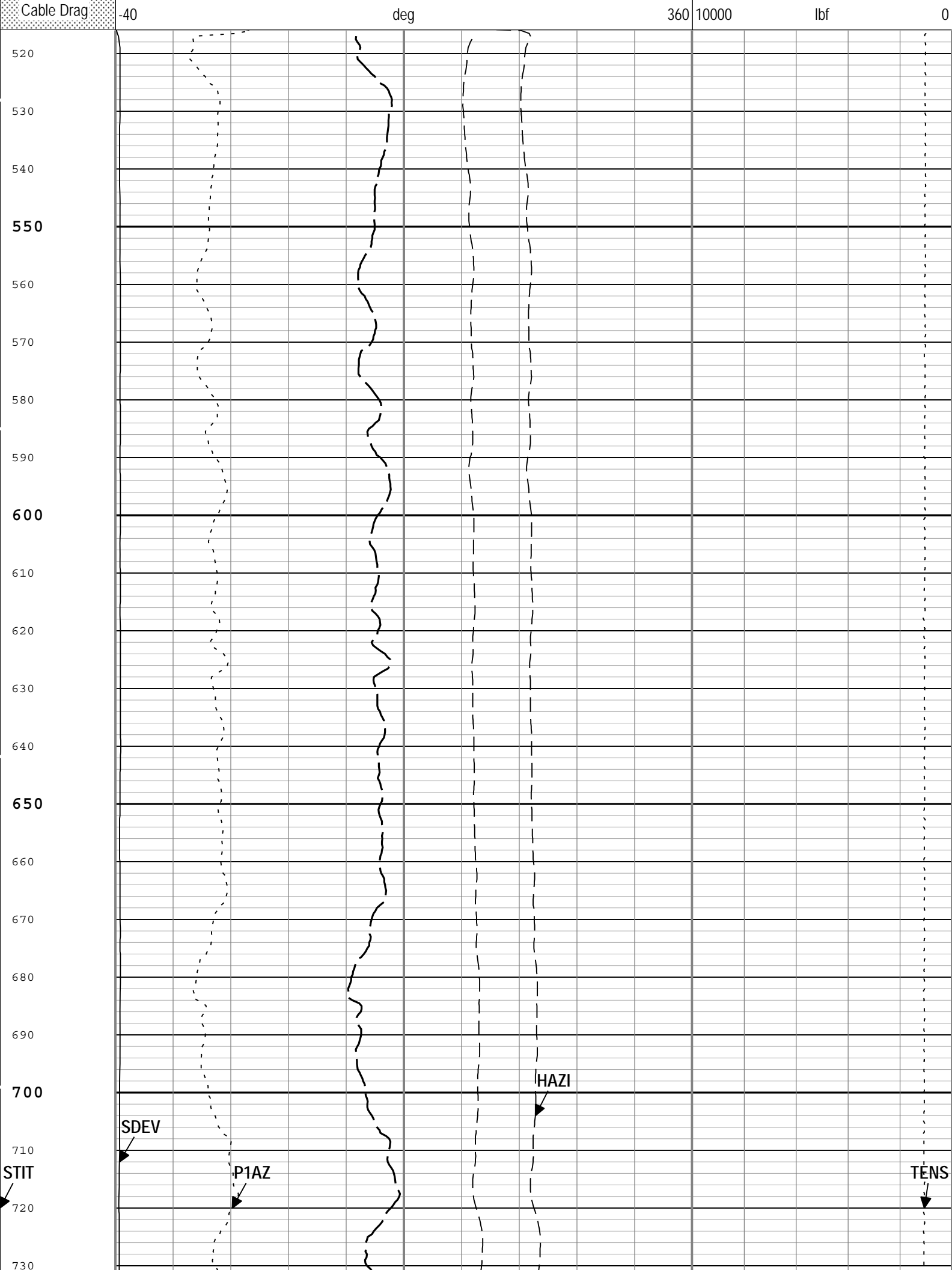
Service Order Number	EXP 11-00033					
Borehole Fluids						
Parameter( unit )	Run 1					
Fluid Type	Water					
Fluid Name	Water					
Max Recorded Temperatures ( degF )	114					
Source of Sample	Active Tank					
Salinity ( ppm )	14800					
Density ( lbm/gal )	9.3					
Funnel Viscosity ( s )	33					
Fluid Loss ( cm3 )						
PH	8					
Date/Time Circulation Stopped	18-Nov-2014 19:00:00					
Date Logger on Bottom	19-Nov-2014					
Time Logger on Bottom	01:00:00					
Source RMF	Calculated					
RMC	Calculated					
RM @ Meas Temp ( ohm.m@degF )	0.62 @ 75					
RMF @ Meas Temp ( ohm.m@degF )	0.47 @ 75					
RMC @ Meas Temp ( ohm.m@degF )	0.78 @ 75					
RM @ BHT ( ohm.m@degF )	0.23 @ 212					
RMF @ BHT ( ohm.m@degF )	0.18 @ 212					
RMC @ BHT ( ohm.m@degF )	0.29 @ 212					
Total Solid ( % )	7.3					
High Gravity Solids ( % )						
Remarks and Equipment Summary						
Run 1: Toolstring				Run 1: Remarks		
Equip name	Length	MP name	Offset	Crew: Jacob Jump, Ian Derry		
LEH-QT	51.57			Toolstring ran as per tool sketch		
LEH-QT						
DTC-H	48.65					
ECH-KC		CTEM	47.75			
DTC-H		HV	0.00			
		ToolStatus	45.65			
		TelStatus	45.65			
AH-184[2]	45.65					
AH-184[1]	43.65					
GPIT-F:770	41.65					
GPIH-B		GPIT-F Incl	40.23			
DHRU-F		ometer				
GPIC-F:770						
HGNS-H	37.65					
HGNH		GPIT	0.00			
NPV-N		Temperature	37.62			
NSR-F:5068		GR	36.91			
UWCA-11						

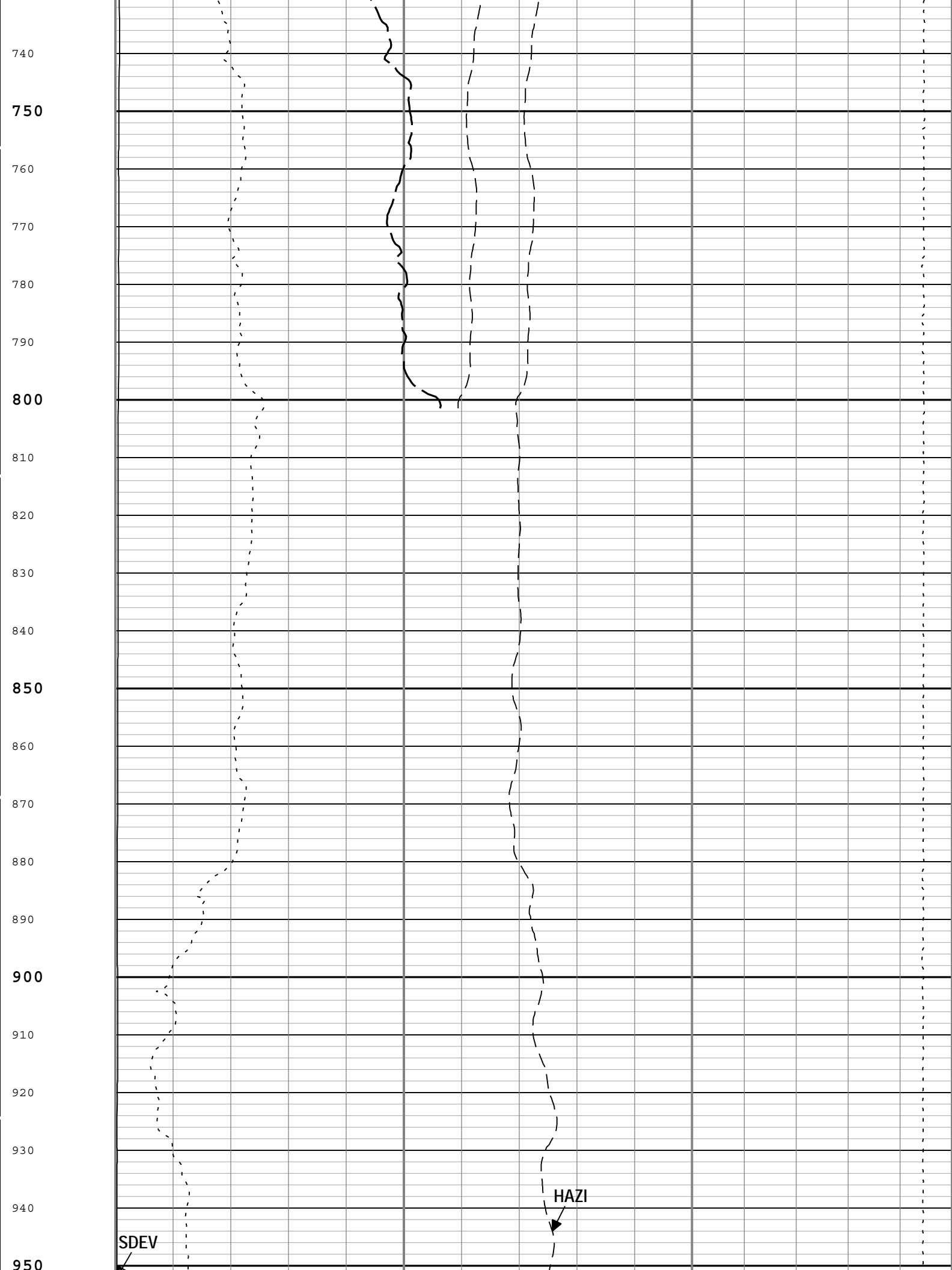
HMCA-H  
HGNS-H  
HACCZ-H:3616

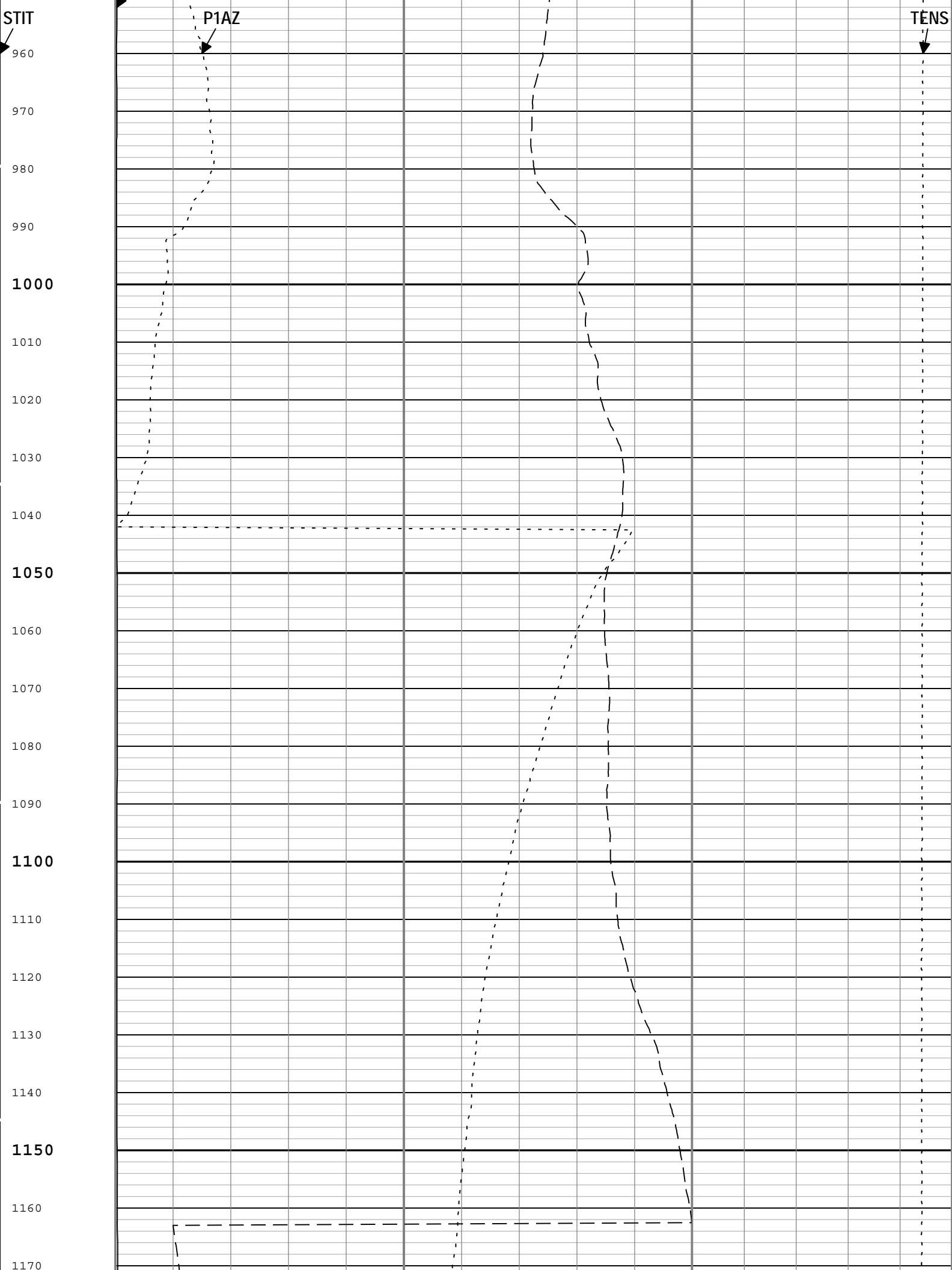


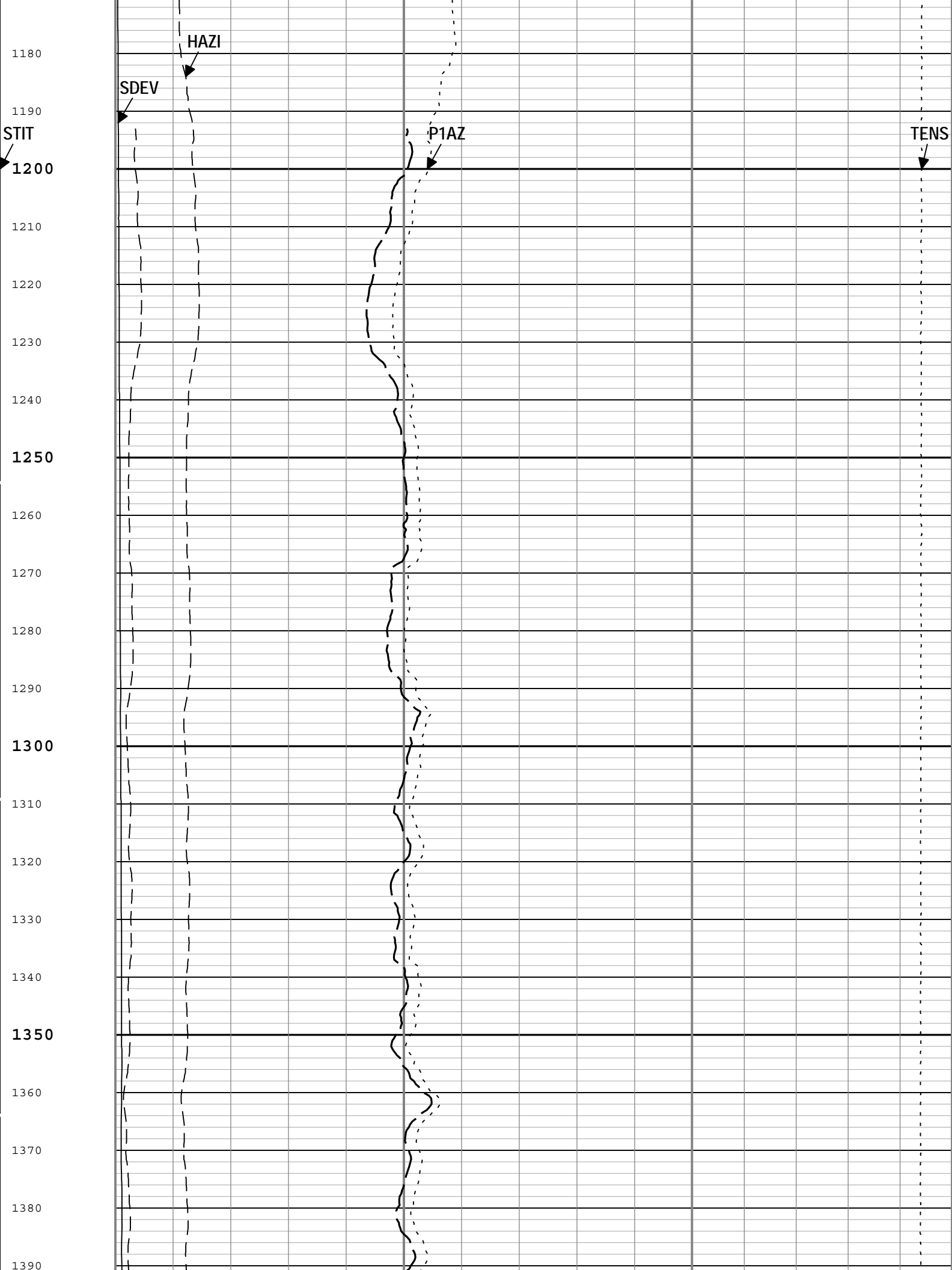
Depth Summary			
Run 1			
Depth Measuring Device			
Type	IDW-JA		
Serial Number	5896		
Calibration Date	13-Aug-2014		

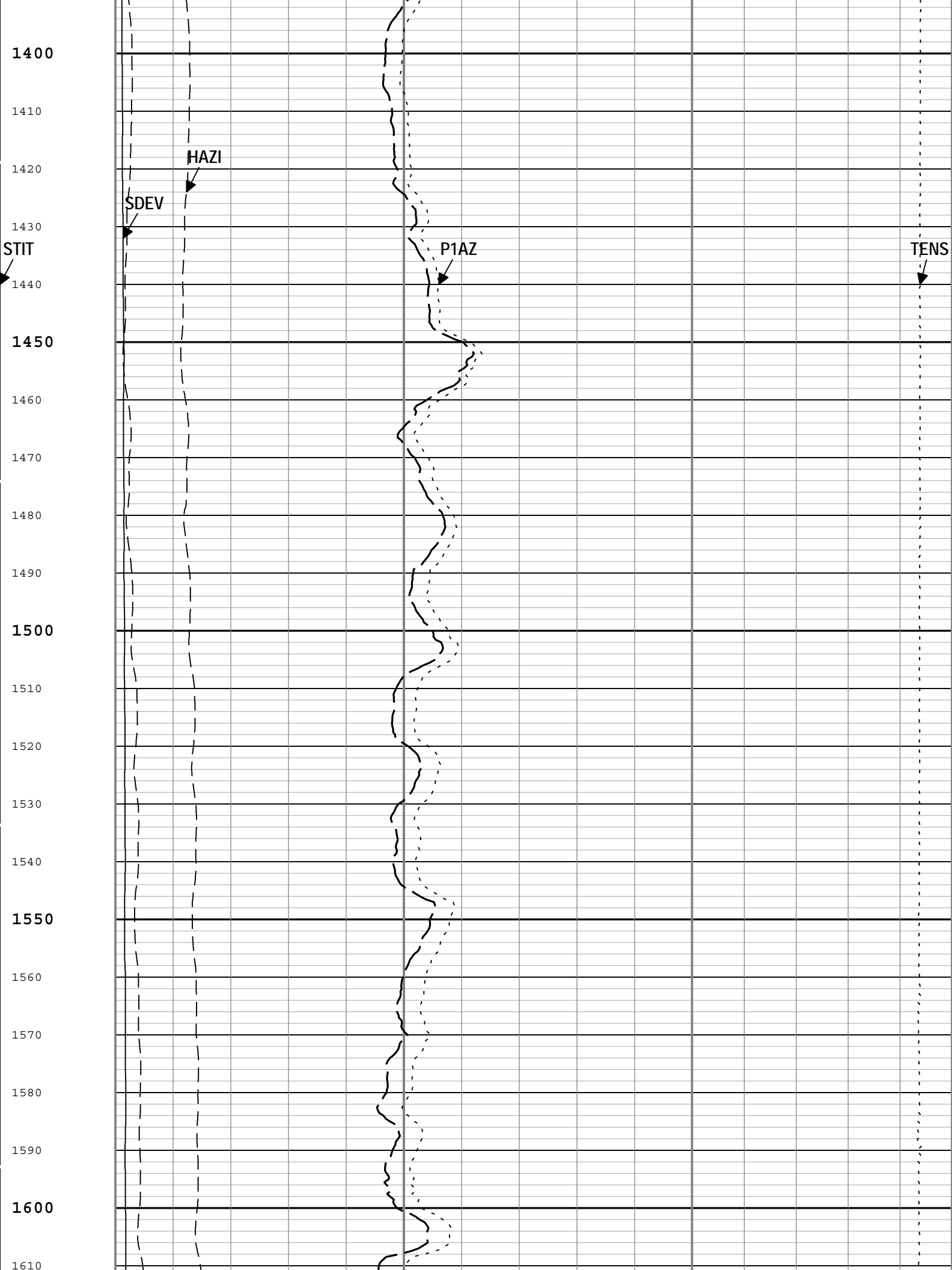
Calibrator Serial Number		7-39P LXS							
Calibration Cable Type		7-39P LXS							
Wheel Correction 1		-3							
Wheel Correction 2		-2							
Tension Device									
Type		CMTD-B/A							
Serial Number		1109							
Calibration Date		18-Nov-2014							
Calibrator Serial Number		441345A							
Number of Calibration Points		10							
Calibration Root Mean Square Error		36							
Calibration Peak Error		69							
Logging Cable									
Type		7-39P-LXS							
Serial Number									
Length		17000.00 ft							
Conveyance Type		Wireline							
Rig Type		Land							
Run 1:Depth Control Parameters				Depth Control Remarks					
Log Sequence		First Log In the Well		All Schlumberger depth control procedures followed					
Rig Up Length At Surface				IDWused for primary depth control					
Rig Up Length At Bottom				Z-Cart used for secondary depth control					
Rig Up Length Correction									
Stretch Correction									
Tool Zero Check At Surface									
Run 1									
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 1	Log[3]:Up	Up	49.15 ft	2793.83 ft	19-Nov-2014 1:04:56 AM	19-Nov-2014 1:54:13 AM	ON	0.48 ft	No
All depths are referenced to toolstring zero									
Log	Company:Omimex Petroleum Inc							Well:Kennedy State 11 36 7 45	
Run 1: Log[3]:Up:S002									
Description: GPIT inclinometry log    Format: Log ( GPIT Inclinometry Log )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth									
Creation Date: 19-Nov-2014 02:05:49									
TIME_1900 - Time Marked every 60.00 (s)									
	Hole Azimuth Relative to True North (HAZI) GPIT-F								
	0	deg							400
	0	Absent (SDEV lower than PADT)							0
	1	Present (SDEV greater than PADT)							1
	Pad 1 Azimuth in Horizontal Plane (0 = True North) (P1AZ) GPIT-F								
	0	deg							400
	Relative Bearing (RB) GPIT-F								
	0	deg							400
	0	Absent (SDEV lower than PADT)							0
	1	Present (SDEV greater than PADT)							1
Stuck Tool Indicator, Total (STIT)	Sonde Deviation (SDEV) GPIT-F								
	0	deg							100
	0	ft							50
	Hole Azimuth Relative to True North (HAZI) GPIT-F							Cable Tension (TENS)	

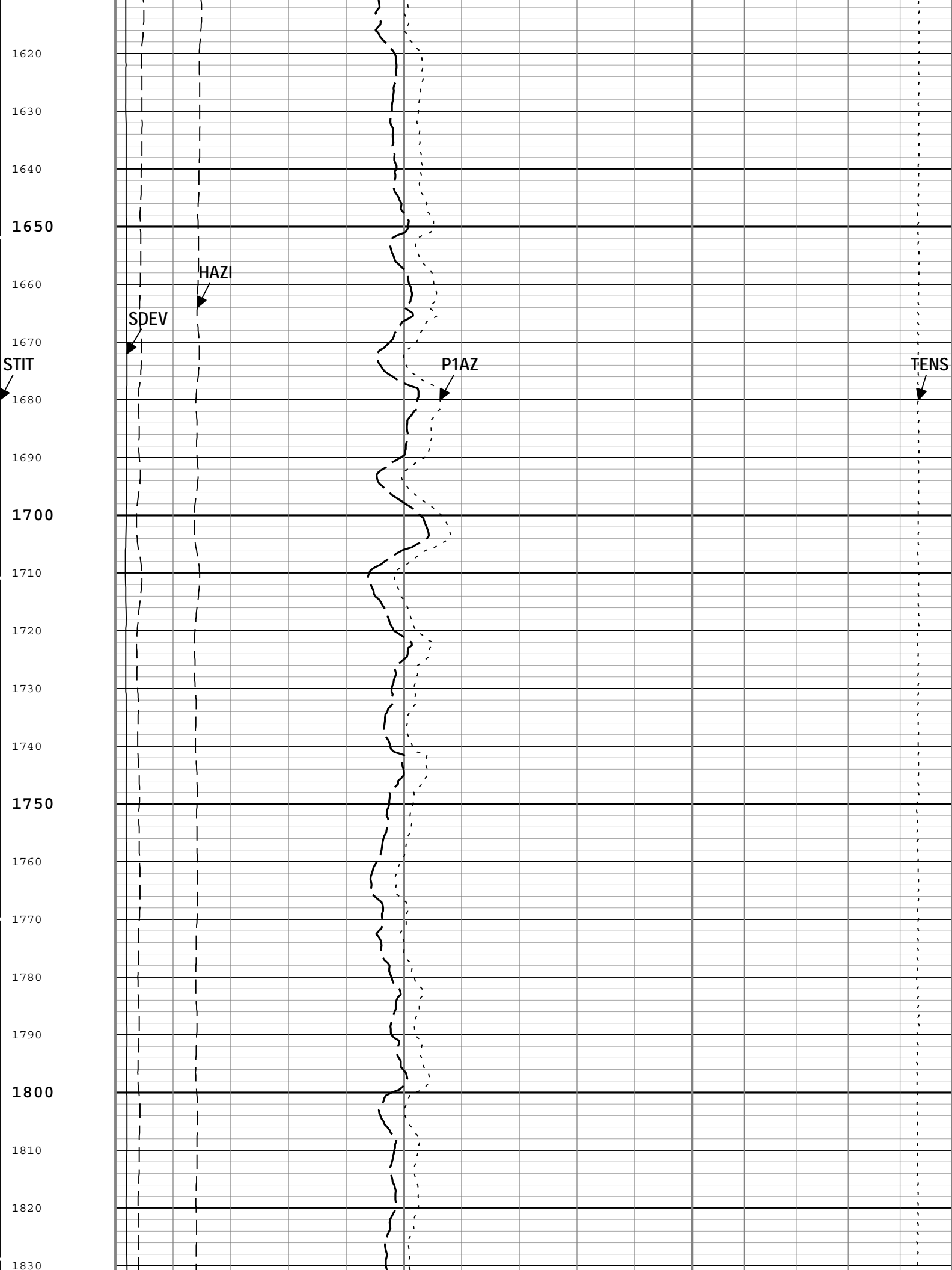


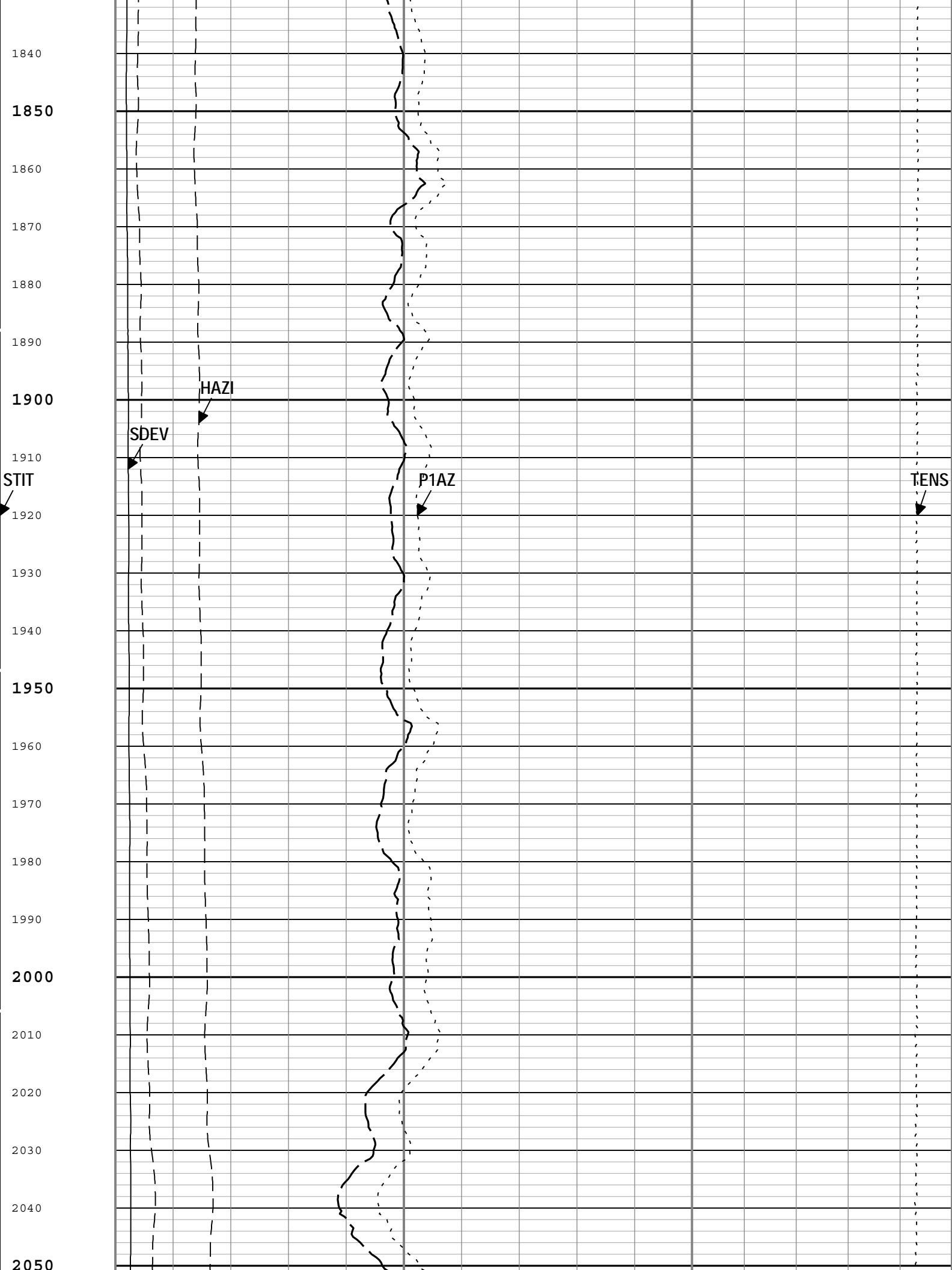


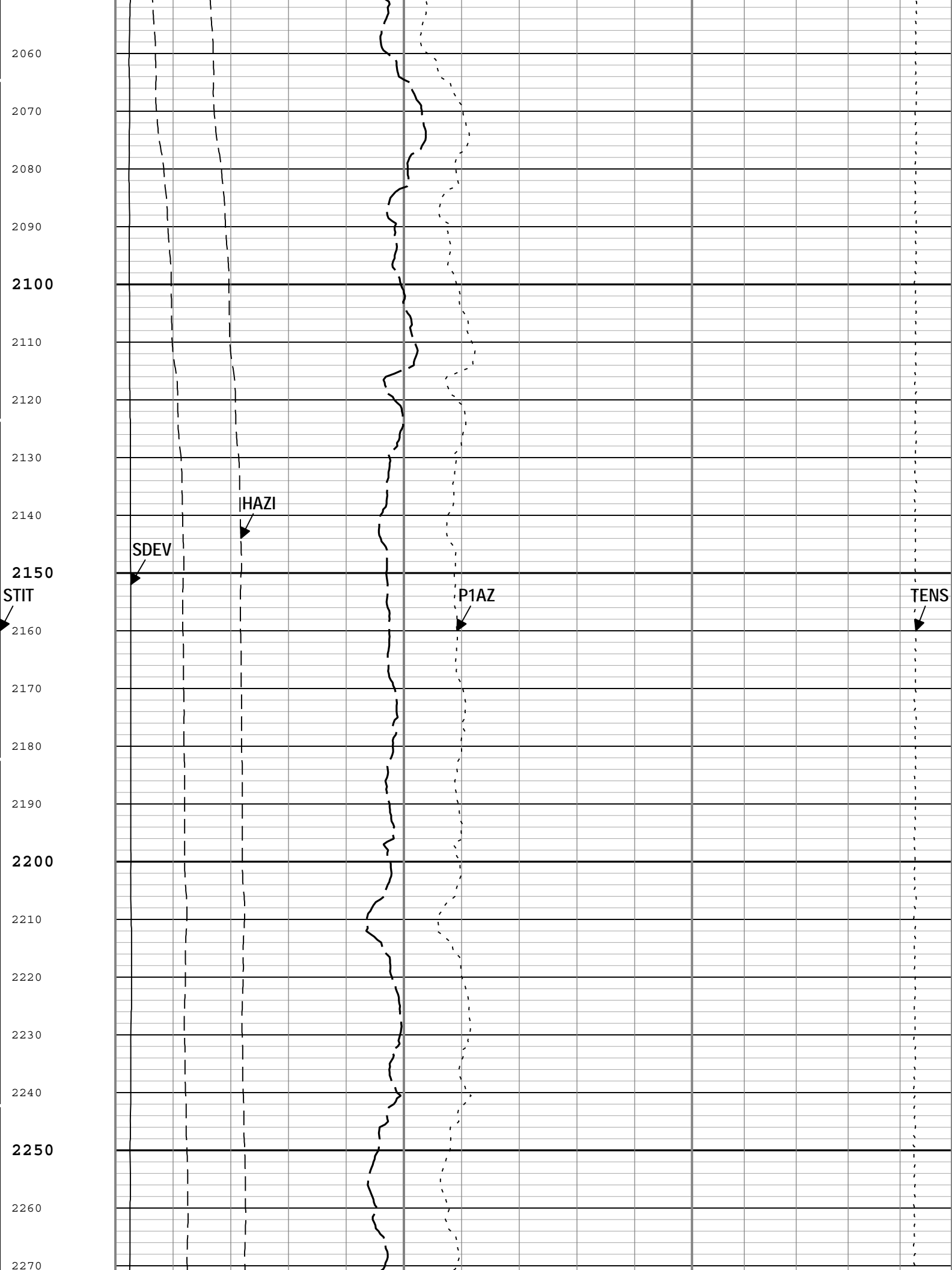


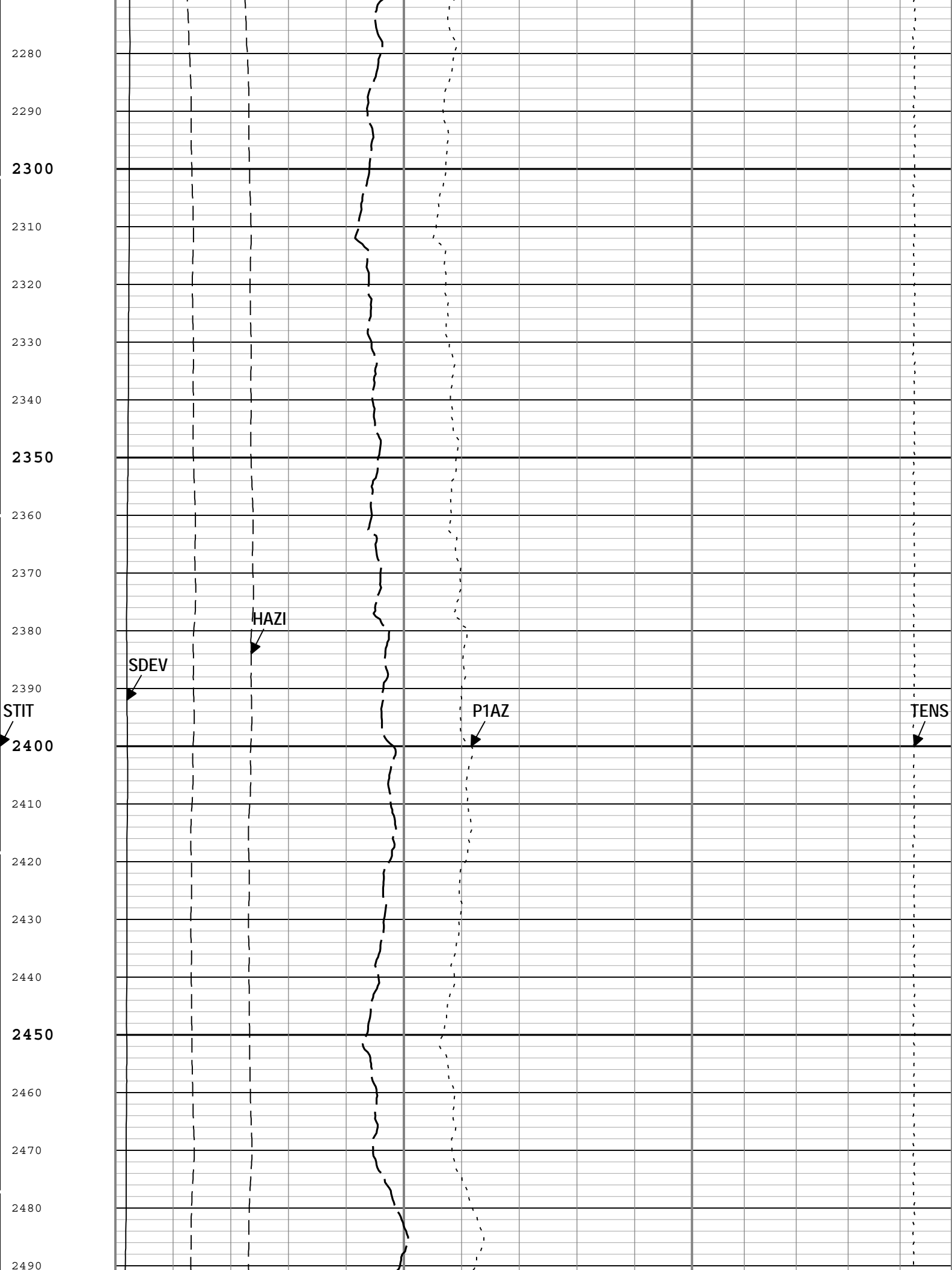


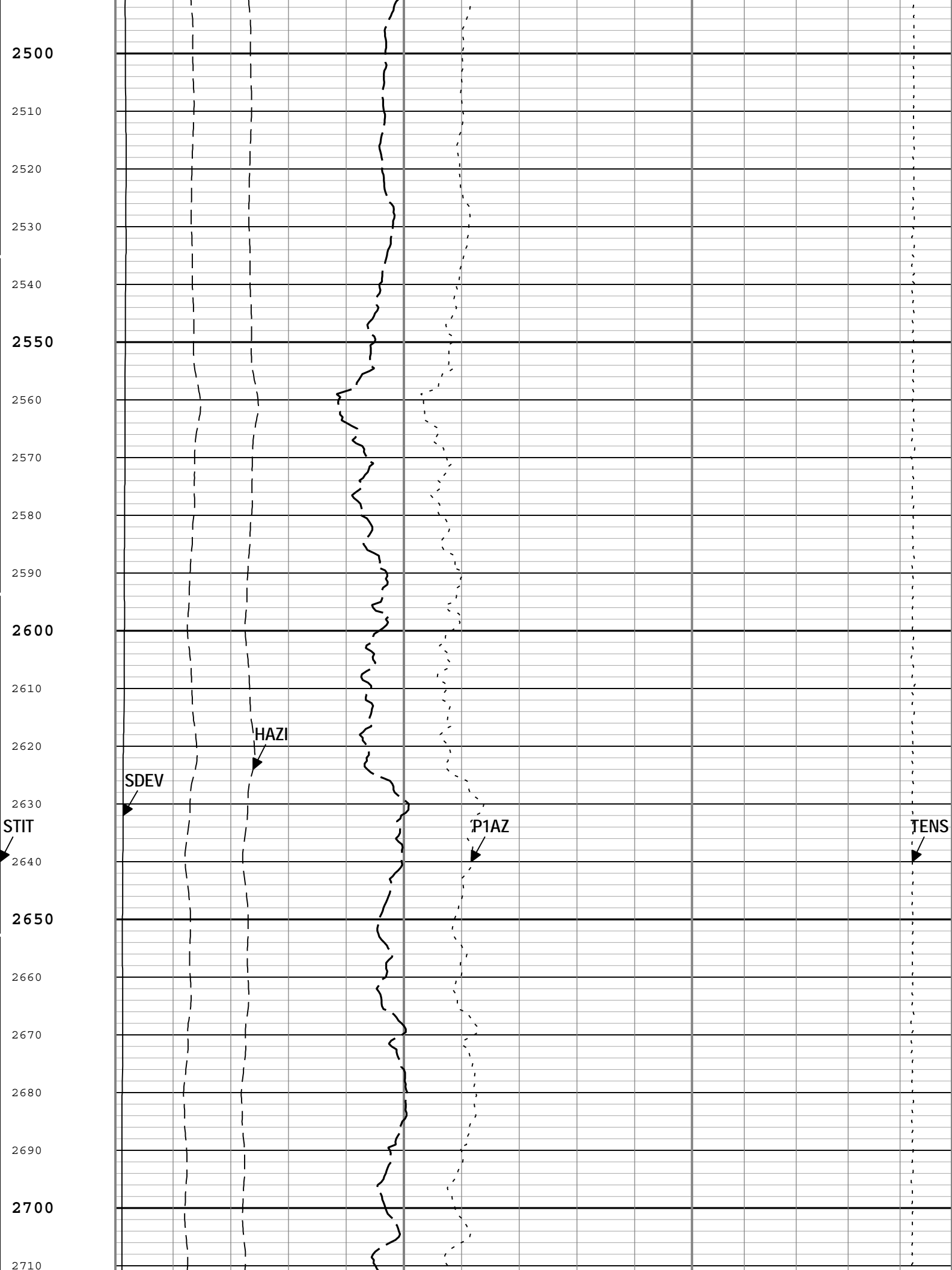


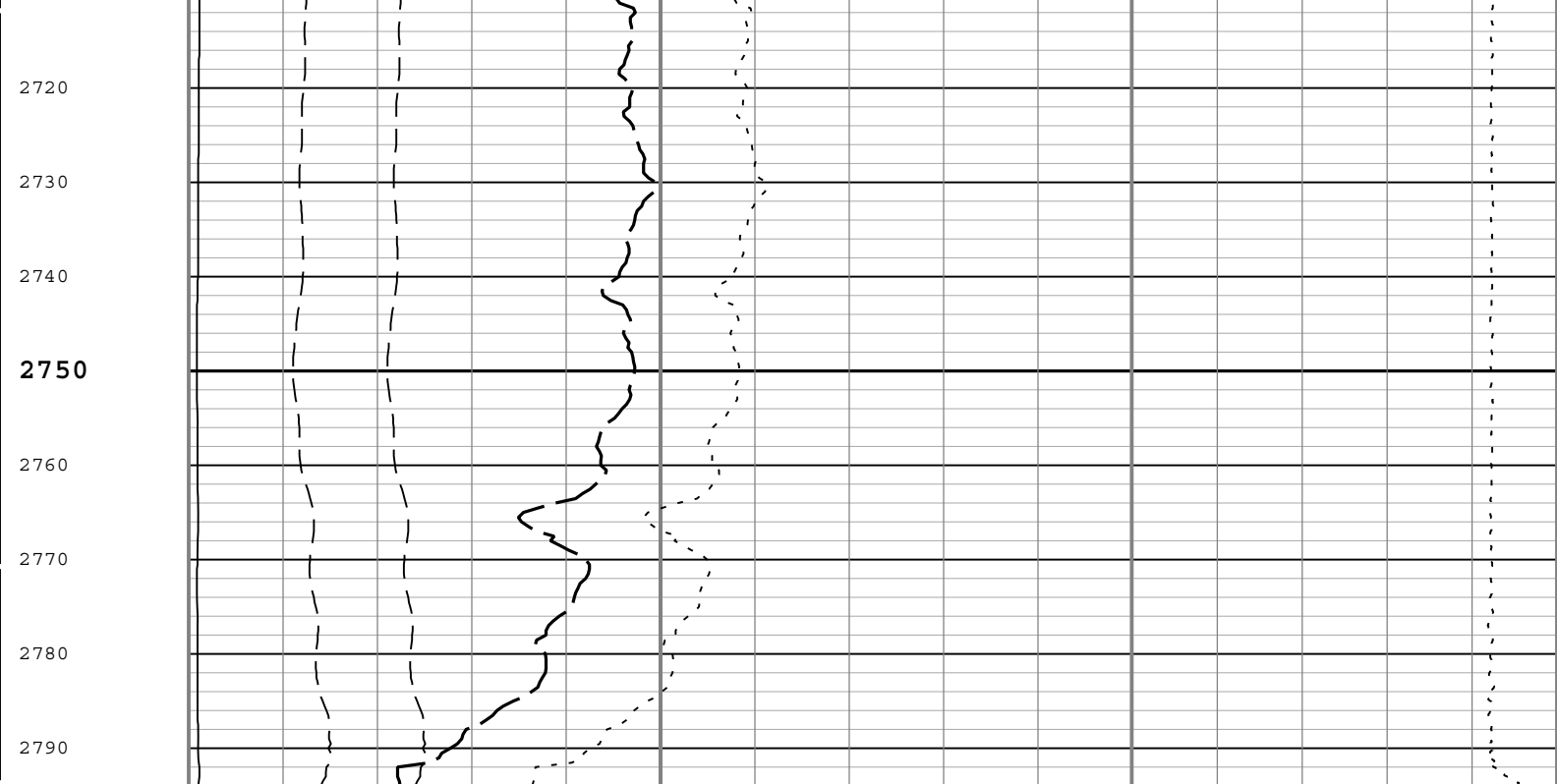












Stuck Tool Indicator, Total (STIT)	Hole Azimuth Relative to True North (HAZI) GPIT-F		Cable Tension (TENS)	
	0	deg	400	10000 lbf 0
	0	Absent (SDEV lower than PADT)		0
0 ft 50	1	Present (SDEV greater than PADT)		1
Cable Drag	Pad 1 Azimuth in Horizontal Plane (0 = True North) (P1AZ) GPIT-F			
	0	deg	400	
	Relative Bearing (RB) GPIT-F			
	0	deg	400	
	0	Absent (SDEV lower than PADT)		0
	1	Present (SDEV greater than PADT)		1
	Sonde Deviation (SDEV) GPIT-F			
	0	deg	100	
	Hole Azimuth Relative to True North (HAZI) GPIT-F			
	-40	deg	360	

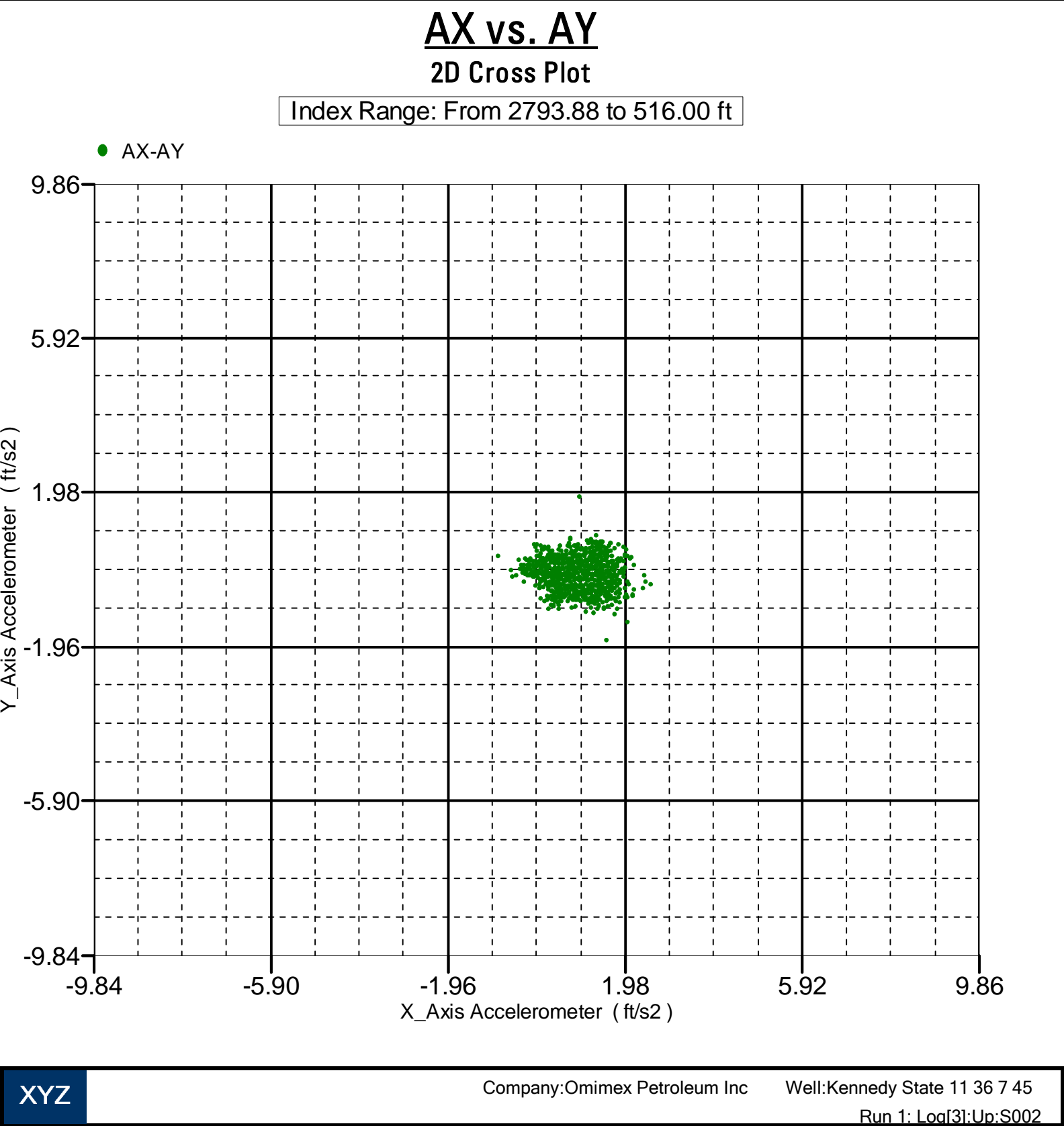
TIME\_1900 - Time Marked every 60.00 (s)

Description: GPIT inclinometry log   Format: Log ( GPIT Inclinometry Log )   Index Scale: 5 in per 100 ft   Index Unit: ft   Index Type: Measured Depth  
Creation Date: 19-Nov-2014 02:05:49

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
AOFFX	X Accelerometer Offset	GPIT-F	0	ft/s2
AOFFY	Y Accelerometer Offset	GPIT-F	0	ft/s2
AOFFZ	Z Accelerometer Offset	GPIT-F	0	ft/s2
CBLO	Casing Bottom (Logger)	WLSESSION	475.6	ft
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
FOFFX	X Magnetometer Offset	GPIT-F	0	mT
FOFFY	Y Magnetometer Offset	GPIT-F	0	mT
FOFFZ	Z Magnetometer Offset	GPIT-F	0	mT
ICMO	Inclinometry Computation Mode	GPIT-F	Automatic Selection	
LOG_SPEED_RNG	Logging Speed Range	GPIT-F	Normal (600 ft/h - 3600 ft/h)	
TD	Total Measured Depth	Borehole	2789	ft

USER_LOCB	User-supplied values for Magnetic Flux Density	WLSESSION	52953.83	nT
USER_MDEC	User-supplied values for Magnetic Declination	WLSESSION	7.15	deg
USER_MDIP	User-supplied values for Magnetic Dip Angle	WLSESSION	67.4	deg

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h
XYZ	Company:Omimex Petroleum Inc		Well:Kennedy State 11 36 7 45	
	Run 1: Log[3]:Up:S002			



Index Range: From 2793.88 to 516.00 ft



Primary Equipment :
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File code for AIT-MA Sonde Tool Element

AMIS

50

File code for AIT Bottom Nose Tool Element

AMRM

50

Master (EEPROM):

12:18:07 04-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Test Loop Gain - 0		Master	1.000	0.950	1.014	1.050		
Test Loop Phase - 0	deg	Master	0	-3.000	0.539	3.000		
Test Loop Gain - 1		Master	1.000	0.950	1.014	1.050		
Test Loop Phase - 1	deg	Master	0	-3.000	0.663	3.000		
Test Loop Gain - 2		Master	1.000	0.950	1.022	1.050		
Test Loop Phase - 2	deg	Master	0	-3.000	0.148	3.000		
Test Loop Gain - 3		Master	1.000	0.950	1.014	1.050		



		Before Before-Master	----- -----	125.000 -----	-175.244 0.959	-115.000 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 5	V	Master Before Before-Master	----- ----- -----	1.176 1.176 -----	1.887 1.886 -0.001	2.744 2.744 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 5	deg	Master Before Before-Master	----- ----- -----	122.000 122.000 -----	-177.732 -176.767 0.965	-118.000 -118.000 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 6	V	Master Before Before-Master	----- ----- -----	1.176 1.176 -----	1.886 1.885 -0.001	2.744 2.744 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 6	deg	Master Before Before-Master	----- ----- -----	121.000 121.000 -----	-177.711 -176.745 0.966	-119.000 -119.000 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 7	V	Master Before Before-Master	----- ----- -----	0.846 0.846 -----	1.357 1.357 0.000	1.974 1.974 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 7	deg	Master Before Before-Master	----- ----- -----	115.000 115.000 -----	-178.471 -177.485 0.986	-125.000 -125.000 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
SPA Zero	mV	Master Before Before-Master	  -----	-50.000 -50.000 -----	0.156 0.132 -0.024	50.000 50.000 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
SPA Plus	mV	Master Before Before-Master	  -----	941.000 941.000 -----	987.998 987.881 -0.117	1040.000 1040.000 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Temperature Zero	V	Master Before Before-Master	  -----	-0.050 -0.050 -----	0.000 0.000 0.000	0.050 0.050 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Temperature Plus	V	Master Before Before-Master	  -----	0.870 0.870 -----	0.915 0.915 0.000	0.960 0.960 -----	<div><div></div><div></div><div></div><div></div><div></div></div>

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

### Primary Equipment :

HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	3828
HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H	3933

### Auxiliary Equipment :

HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	28736
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5094
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	3828
HILT High-Resolution Mechanical Sonde, 150 degC	HRMS-H	

### 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): 13:36:07 18-Nov-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
Small Ring	in	Before	8.00	6.00	7.61	10.00	<div><div></div><div></div><div></div><div></div><div></div></div>
Large Ring	in	Before	12.00	9.00	11.81	15.00	<div><div></div><div></div><div></div><div></div><div></div></div>

## HDRS Density Calibration - Inversion Results

Master (EEPROM): 15:21:00 21-Oct-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
Rho Aluminum	g/cm3	Master	2.596	2.586	2.594	2.606	<div><div></div><div></div><div></div><div></div><div></div></div>
Rho Magnesium	g/cm3	Master	1.686	1.676	1.689	1.696	<div><div></div><div></div><div></div><div></div><div></div></div>
Pe Aluminum		Master	2.570	2.470	2.582	2.670	<div><div></div><div></div><div></div><div></div><div></div></div>
Pe Magnesium		Master	2.650	2.550	2.589	2.750	<div><div></div><div></div><div></div><div></div><div></div></div>

## HDRS Density Calibration - Deviation Summary

15:21:00 21-Oct-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.3325	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.9257	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.3008	1.0000	
SS Max Deviation	%	Master	0	-2.5000	0.9629	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.9542	1.5000	
LS Max Deviation	%	Master	0	-3.5000	2.5936	3.5000	

## HDRS Density Calibration - Background Summary

Master (EEPROM):	15:21:00 21-Oct-2014	Before (Measured):	13:33:10 18-Nov-2014
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Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master Before Before-Master	1.0000 0.7486 -----	 0.7111 -----	0.7486 0.7511 0.0025	 0.7860 -----	<div><div></div></div>
BS Window Sum	1/s	Master Before Before-Master	1 23350 -----	 22183 -----	23350 23329 -21	 24518 -----	<div><div></div></div>
SS Window Ratio		Master Before Before-Master	1.0000 0.4883 -----	 0.4639 -----	0.4883 0.4881 -0.0002	 0.5127 -----	<div><div></div></div>
SS Window Sum	1/s	Master Before Before-Master	1 10931 -----	 10384 -----	10931 10905 -26	 11477 -----	<div><div></div></div>
LS Window Ratio		Master Before Before-Master	1.0000 0.3000 -----	 0.2850 -----	0.3000 0.3019 0.0019	 0.3150 -----	<div><div></div></div>
LS Window Sum	1/s	Master Before Before-Master	1 1194 -----	 1134 -----	1194 1190 -4	 1253 -----	<div><div></div></div>

## HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM):	15:21:00 21-Oct-2014	Before (Measured):	13:33:10 18-Nov-2014
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Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1613	2400	<div><div></div></div>
		Before		1000	1612	2400	<div><div></div></div>
		Before-Master	----	-100	-1	100	<div><div></div></div>
SS PM High Voltage	V	Master		1000	1489	2400	<div><div></div></div>
		Before		1000	1512	2400	<div><div></div></div>
		Before-Master	----	-100	23	100	<div><div></div></div>
LS PM High Voltage	V	Master		1000	1276	2400	<div><div></div></div>
		Before		1000	1290	2400	<div><div></div></div>
		Before-Master	----	-100	14	100	<div><div></div></div>

## HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM):	15:21:00 21-Oct-2014	Before (Measured):	13:33:10 18-Nov-2014
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Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.77	25.00	
		Before		5.00	10.77	25.00	
		Before-Master	----	-1.00	0.00	1.00	
SS Crystal Resolution	%	Master		5.00	9.68	20.00	
		Before		5.00	10.01	20.00	
		Before-Master	----	-1.00	0.33	1.00	
LS Crystal Resolution	%	Master		5.00	8.06	20.00	
		Before		5.00	8.09	20.00	
		Before-Master	----	-1.00	0.03	1.00	

## HDRS MCFL Calibration - MCFL Accumulations

Before (Measured): 13:34:56 18-Nov-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3874	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3813	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3820	4136	

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

Primary Equipment :

## Auxiliary Equipment :

HGNS Accelerometer, 150 degC

HACCZ-H

3616

AmBe Neutron Logging Source

NSR-F

5068

## Calibration Parameter :

Water Temperature

Housing Size

JIG-BKG (Jig minus background reference)

165

## HGNS Accelerometer Calibration - Accelerometer Accumulations

Before:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement - 0	ft/s2	Before	----	----	----	----	

## HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (Manual Entry): 00:00:00 15-Feb-2005

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	----	----	-2323.000	----	
Accelerometer Coefficients - 1		Master	----	----	2.895	----	
Accelerometer Coefficients - 2		Master	----	----	0.001	----	
Accelerometer Coefficients - 3		Master	----	----	0.000	----	
Accelerometer Coefficients - 4		Master	----	----	2.764	----	
Accelerometer Coefficients - 5		Master	----	----	0.000	----	
Accelerometer Coefficients - 6		Master	----	----	0.000	----	
Accelerometer Coefficients - 7		Master	----	----	0.000	----	
Accelerometer Coefficients - 8		Master	----	----	298.500	----	
Accelerometer Coefficients - 9		Master	----	----	1.009	----	

## HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (Manual Entry): 11:12:08 15-Sep-2014

Before (Measured):

13:29:08 18-Nov-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement - 0	1/s	Master	----	----	----	----	
		Before	0	5.0	28.1	40.0	
		Before-Master	----	----	----	----	
Far Zero Measurement - 0	1/s	Master	----	----	----	----	
		Before	0	5.0	27.3	40.0	
		Before-Master	----	----	----	----	
Near Plus Measurement - 0	1/s	Master	----	----	----	----	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Far Plus Measurement - 0	1/s	Master	----	----	----	----	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Near Corrected Plus Measurement	1/s	Master		4700.0	5351.0	6900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Far Corrected Plus Measurement	1/s	Master		1900.0	2289.0	2900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	

## HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured): 13:41:46 18-Nov-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	81.0	120.0	
RGR Plus Measurement	gAPI	Before	185.4	157.1	177.2	206.3	
GR Calibration Gain		Before	0.89	0.80	0.93	1.05	

Company:	Omimex Petroleum Inc	Schlumberger
Well:	Kennedy State 11 36 7 45	
Field:	Holyoke South	
County:	Phillip	
State:	Colorado	
Platform Express		
Directional Survey		