

Company: Omimex Petroleum Inc

Well: Mailander 4-34-6-45

Field: Ballyneal

County: Phillips State: Colorado

Platform Express
Inclinometry Log

Phillips
Ballyneal
SWNE Sec34 T6N R45W
Mailander 4-34-6-45
Omimex Petroleum Inc

Location:
SWNE Sec34 T6N R45W
SHL: 481' FNL, 394' FWL

Elev.:
K.B. 3810.00 ft
G.L. 3804.00 ft
D.F. 3809.00 ft

Permanent Datum:
Log Measured From:
Drilling Measured From:

Ground Level
Kelly Bushing
Kelly Bushing

Elev.:
6.00 ft
above Perm.Datum

API Serial No.
05-095-06465

Section:
34

Township:
6N

Range:
45W

Logging Date	12-Nov-2014		
Run Number	ONE		
Depth Driller	2696.00 ft		
Schlumberger Depth	2695.00 ft		
Bottom Log Interval	2695.00 ft		
Top Log Interval	498.00 ft		
Casing Driller Size @ Depth	7 in @ 497.00 ft		
Casing Schlumberger	498 ft		
Bit Size	6.25 in		
Type Fluid In Hole	Water		
Density	9 lbm/gal	30 s	
Fluid Loss	4.8 cm3	8.5	
Source of Sample	AIT Measured		
RM @ Meas Temp	0.18 ohm.m	@	74 degF
RMF @ Meas Temp	0.14 ohm.m	@	74 degF
RMC @ Meas Temp	0.27 ohm.m	@	74 degF
Source RMF	Calculated	Calculated	
RM @ BHT	0.15 @ 89	0.12 @ 89	
Max Recorded Temperatures	89 degF		
Circulation Stopped	12-Nov-2014 17:15:00		
Logger on Bottom	12-Nov-2014 20:54:10		
Unit Number	Location:	2135	Fort Morgan
Recorded By	B Makinson		
Witnessed By	Paul Dekaye		

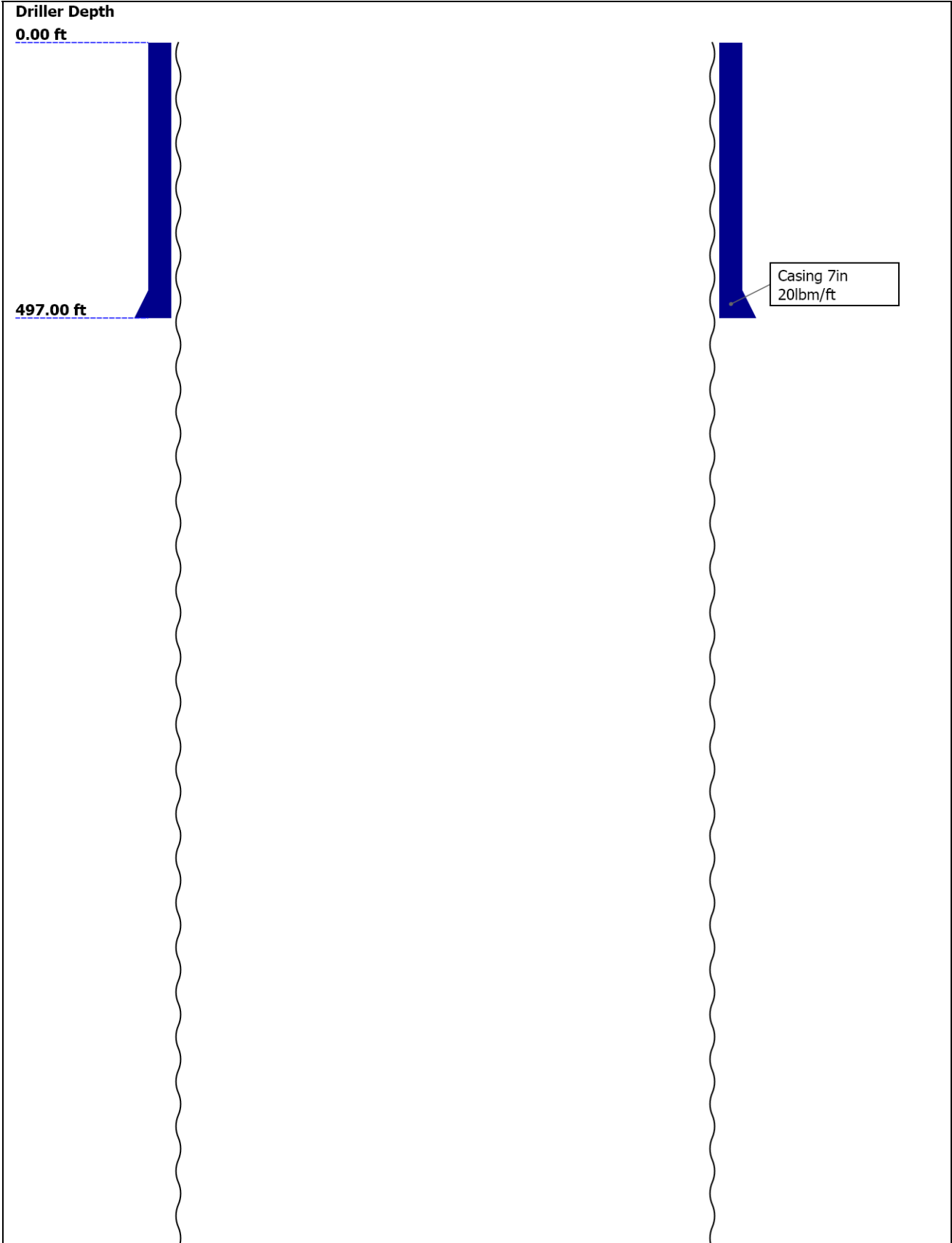
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Well Sketch



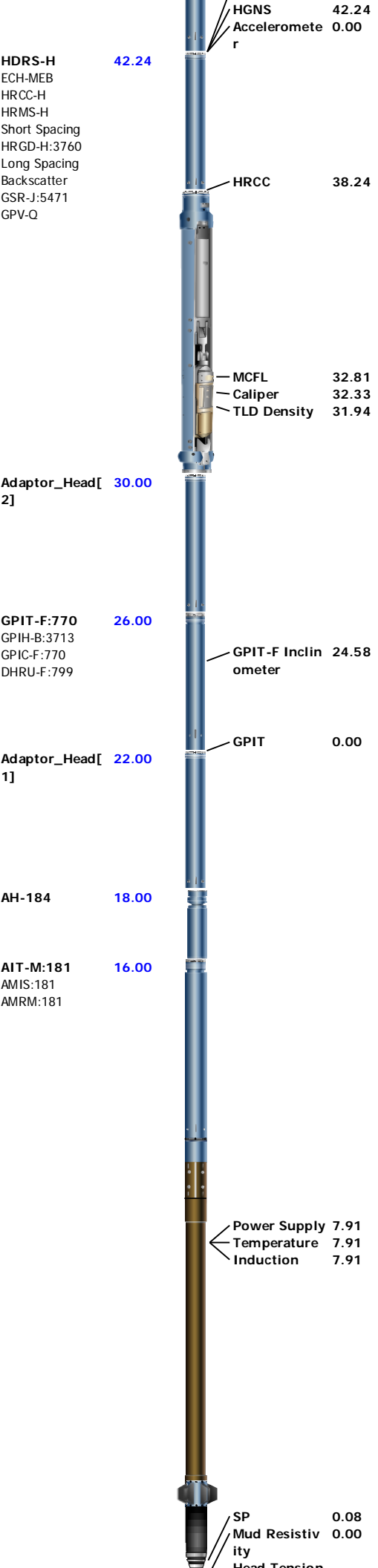


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	6.25					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	2696					
Bottom Logger (ft)	2695					
Casing						
Size (in)	7					
Weight (lbm/ft)	20					
Inner Diameter (in)	6.456					
Grade	J55					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	497					
Bottom Logger (ft)	498					

Remarks and Equipment Summary

ONE: Toolstring				ONE: Remarks
Equip name	Length	MP name	Offset	First run in the well. Toolstring run as per tool sketch. No bowspring used to eccenter HGNS as per request. Limestone matrix, MDEN: 2.71 Neutron corrections applied: Hole size, Standoff. Down log stretch correction: 0.26 ft. Cement volume calculated assuming 4.5" future casing. Caliper check in casing within 0.1" tolerance. Mud resistivity measured from AIT AMF. TD: 2695 ft, CSG: 498 ft.
LEH-QT	61.07			
LEH-QT				
EDTC-B:8328	58.15			
EDTH-B				
EDTG-A				
EDTC-B:8328				
		CTEM	54.65	
		ACCZ	0.00	
		HV	0.00	
		Gamma Ray	52.78	
		TelStatus	51.65	
		Temperature	51.62	
HGNS-H:4810	51.65			
HGNH				
NSR-F:5215				
NPV-N				
HGNS-H:4810				
HMCA-H				
HACCZ-H:5955				
		GR	50.91	
		CNL Porosity	44.58	
		/HMCA	42.24	



Lengths are in ft
Maximum Outer Diameter = 9.000 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

ONE

IDW-JA
6433
23-Sep-2014

7-46 PXS
-3
-2

CMTD-B/A
1919
07-Nov-2014
441345A
10
13
24

7-46P-XS
U711057
24000.00 ft
Wireline
Single

0.26 ft

All Schlumberger depth control procedures followed.
IDW used as primary depth control.
Z-Chart used as secondary depth control.

ONE

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[3]:Up	Up	195.28 ft	2701.05 ft	12-Nov-2014 9:16:36 PM	12-Nov-2014 9:59:34 PM	ON	0.26 ft	No

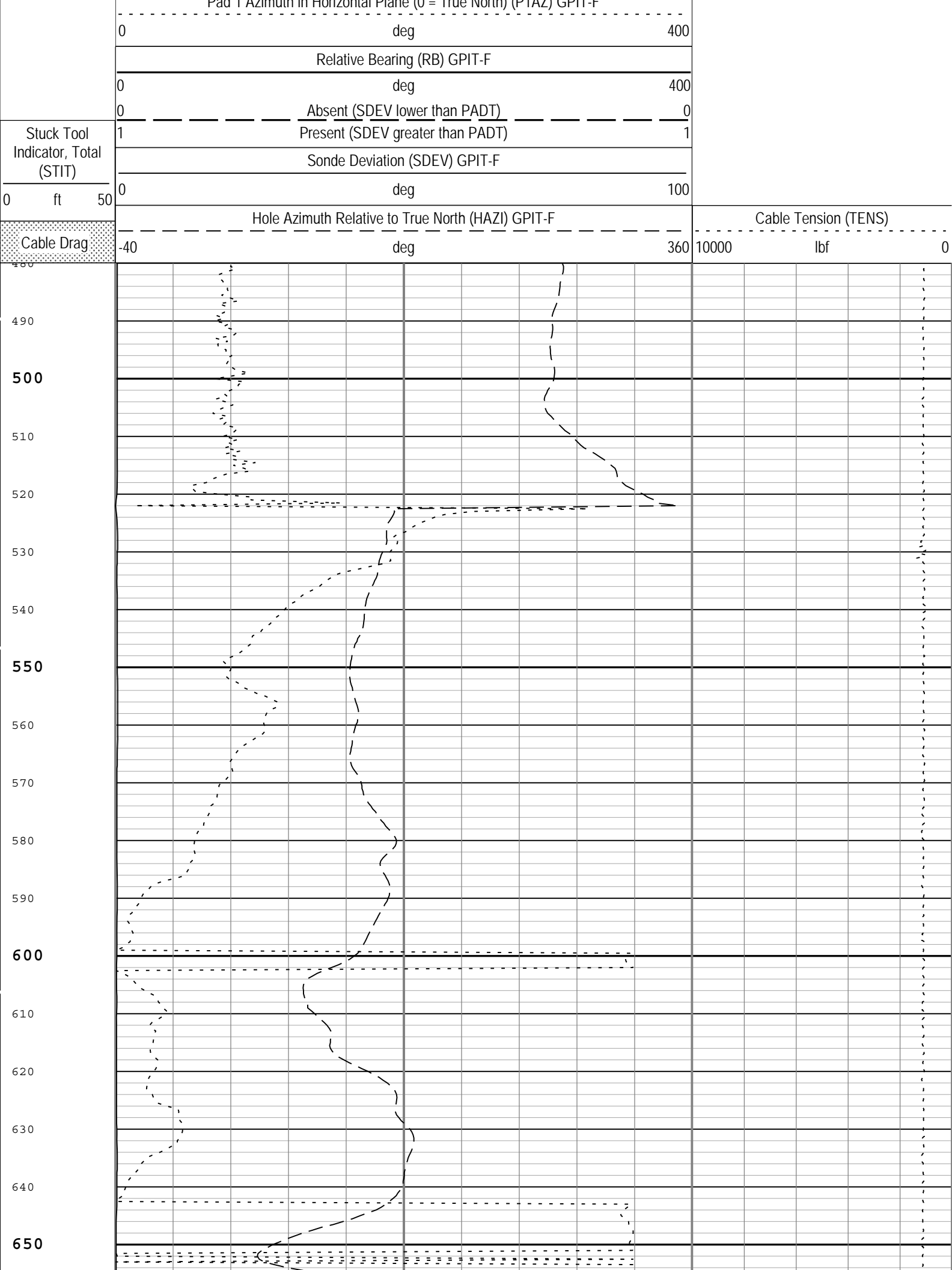
Log

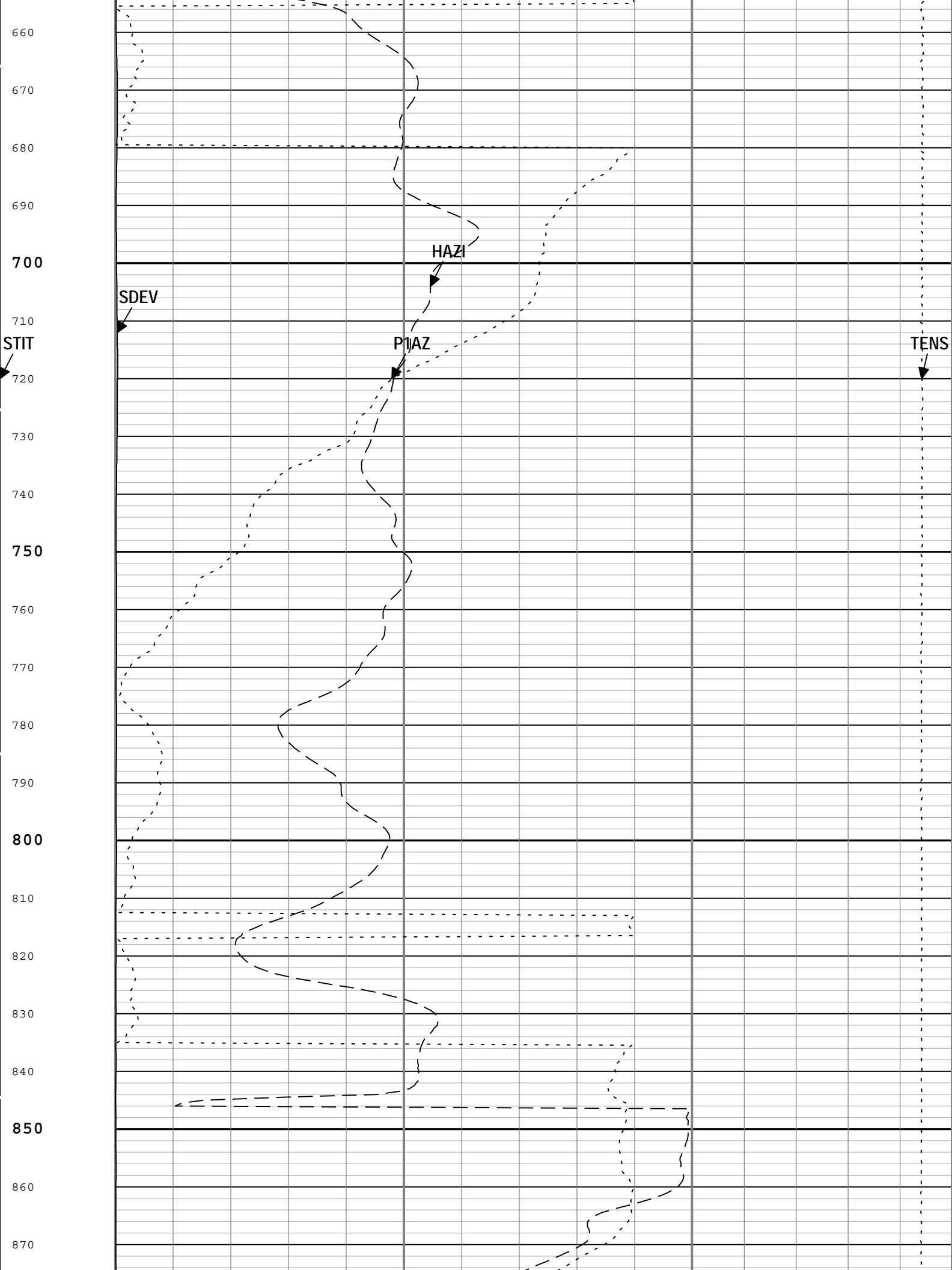
ONE: Log[3]:Up:S011

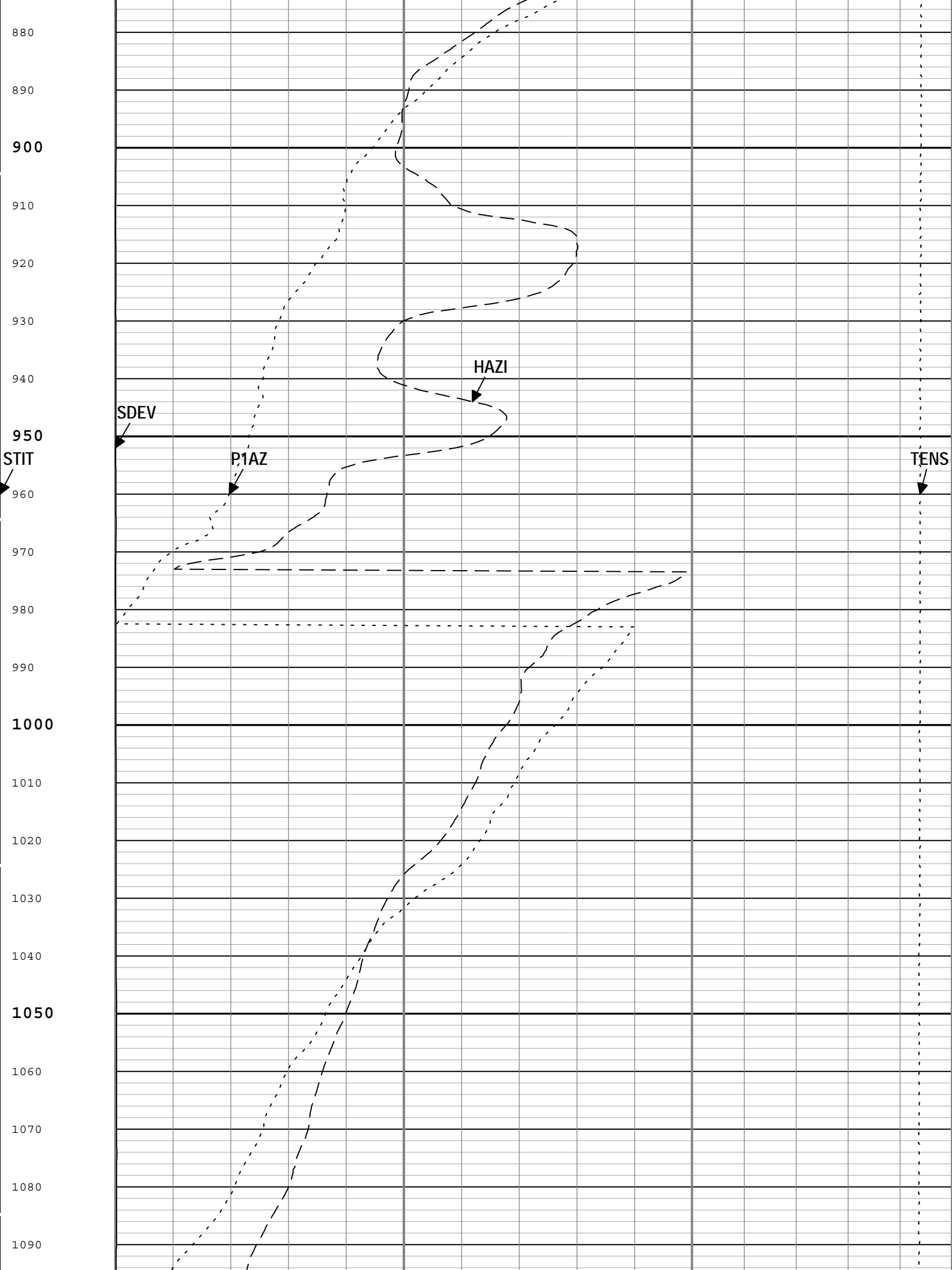
TIME_1900 - Time Marked every 60.00 (s)

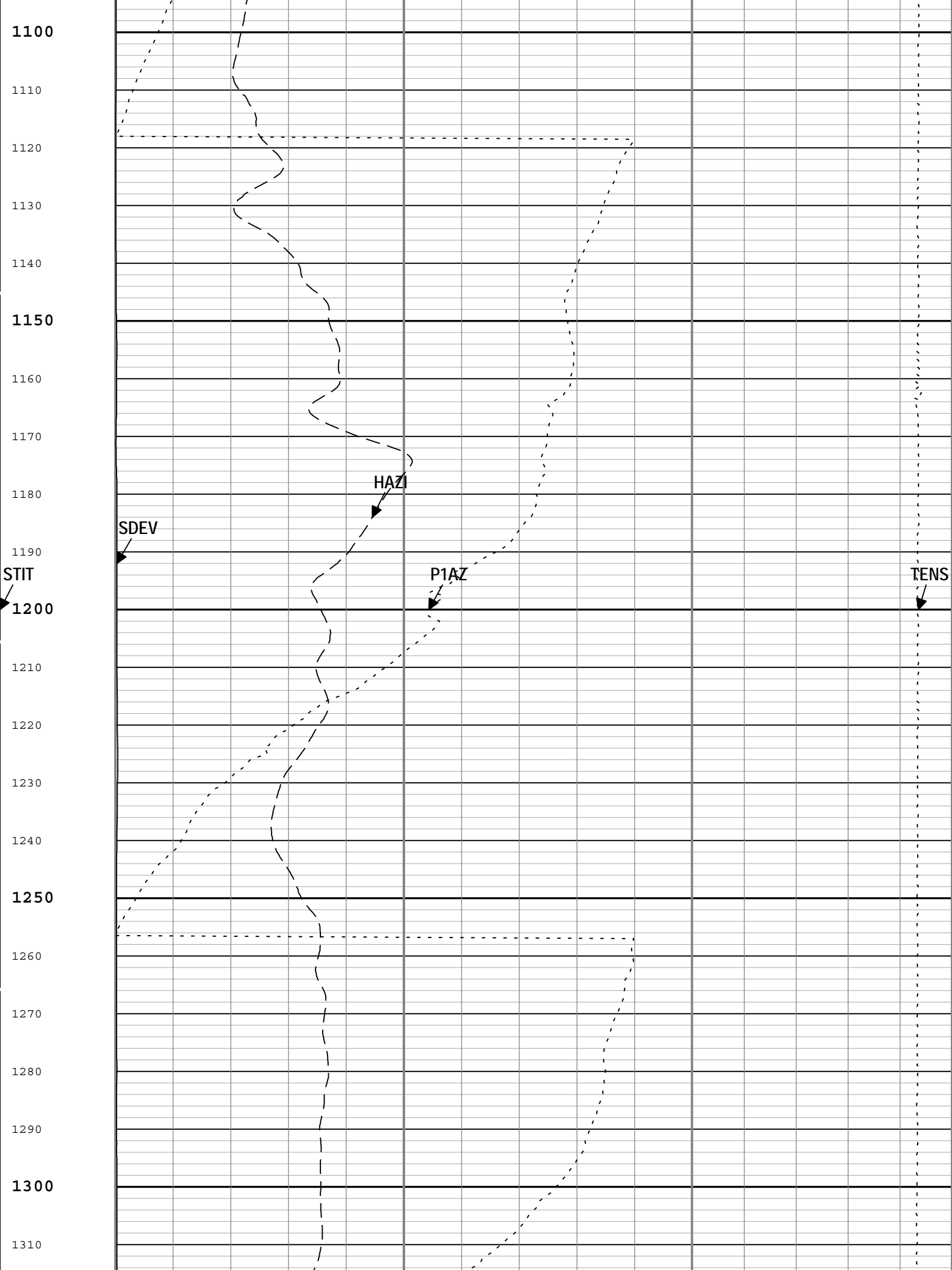
0	deg	400
0	Absent (SDEV lower than PADT)	0
1	Present (SDEV greater than PADT)	1

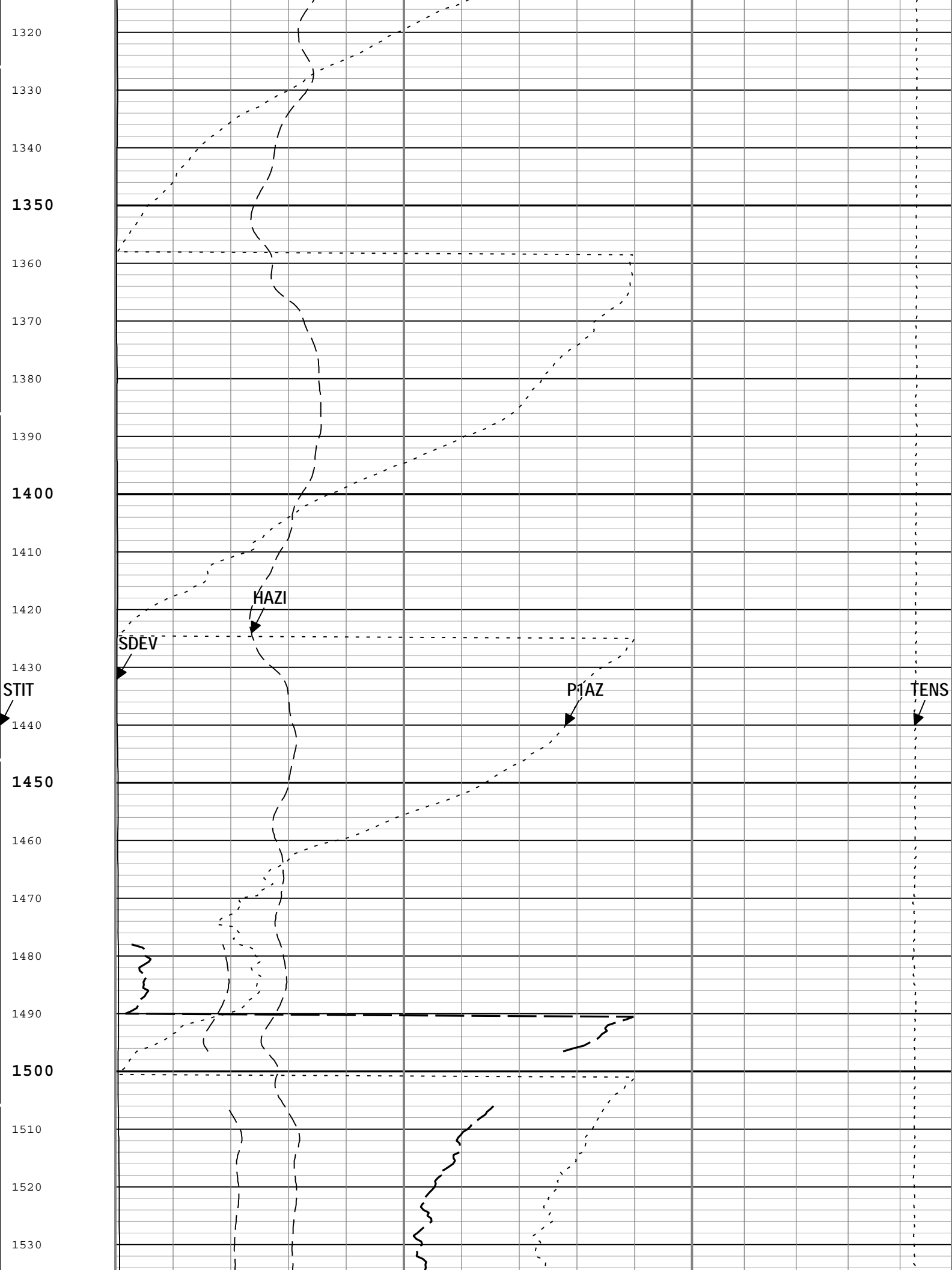
Ded 1 Azimuth in Horizontal Plane (0 = True North) (D1A7) CDIT 5

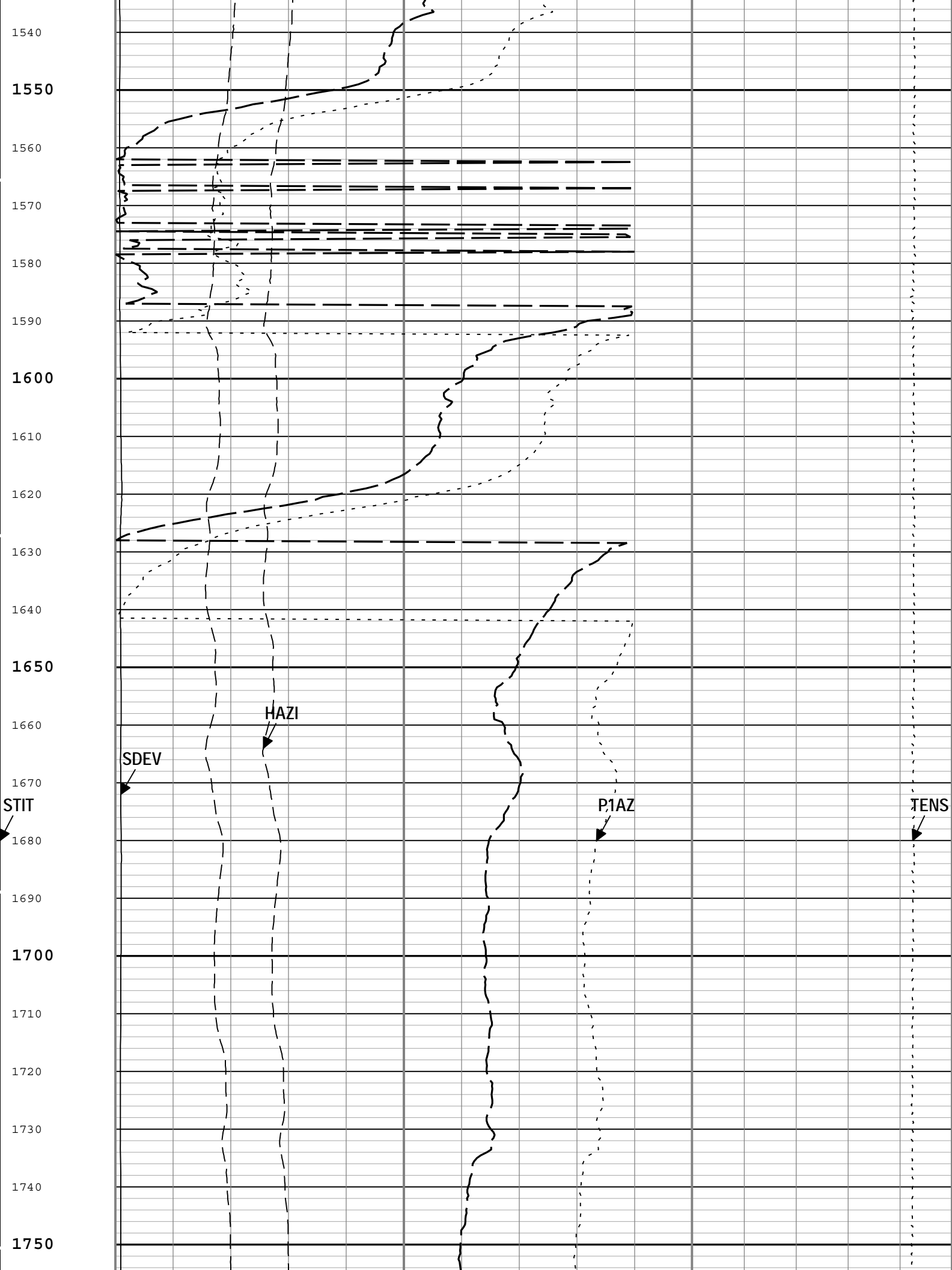


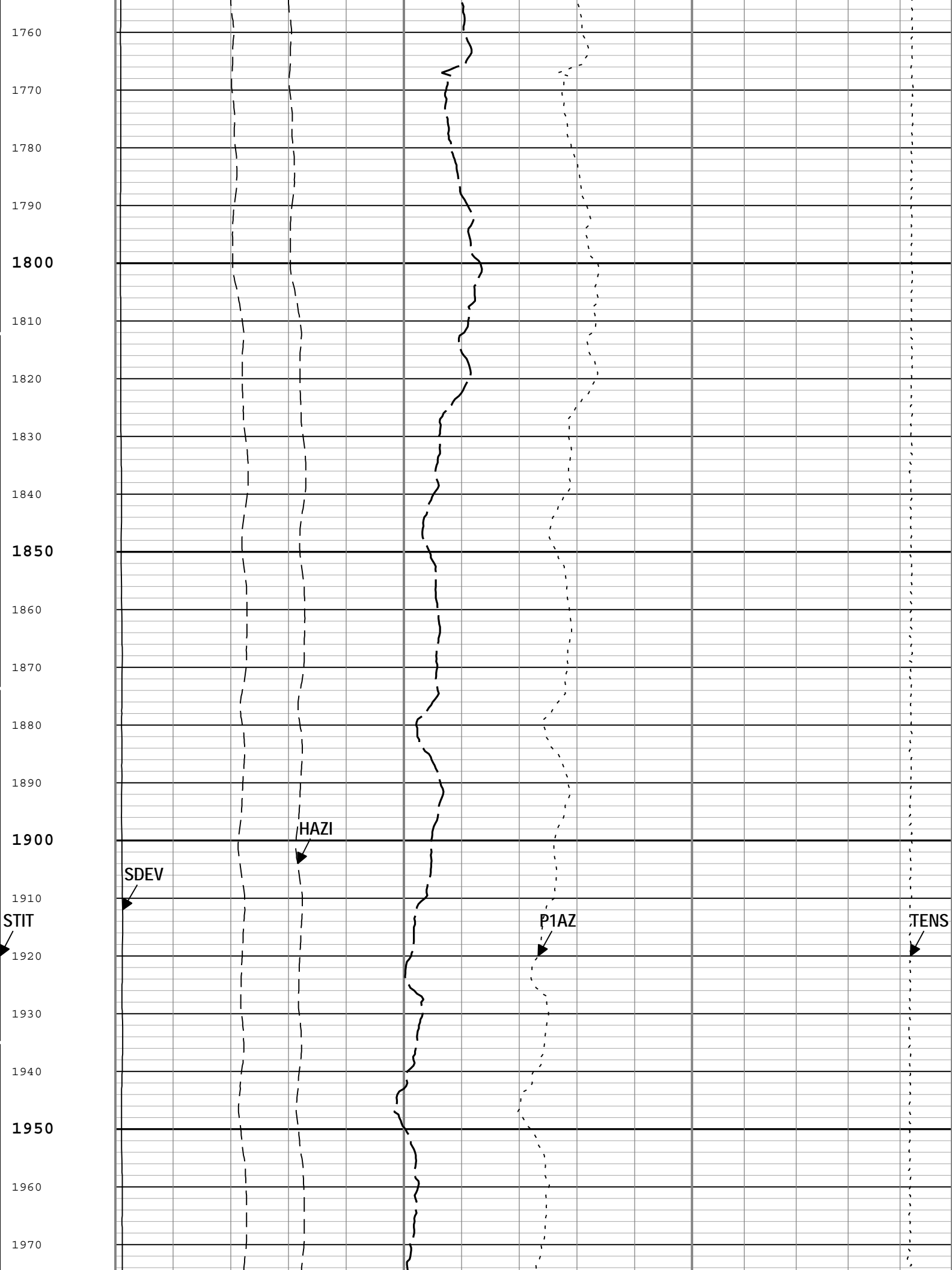


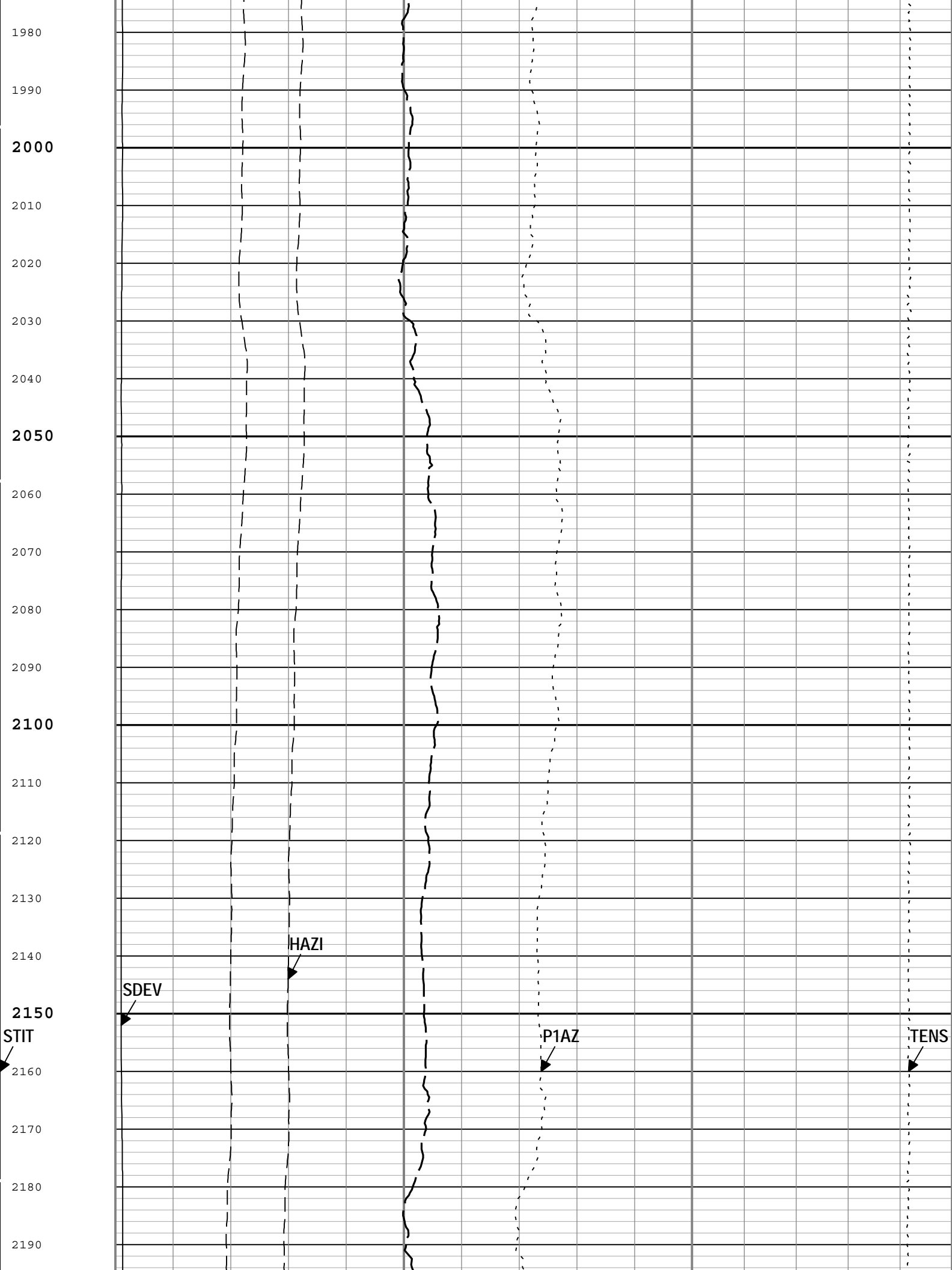


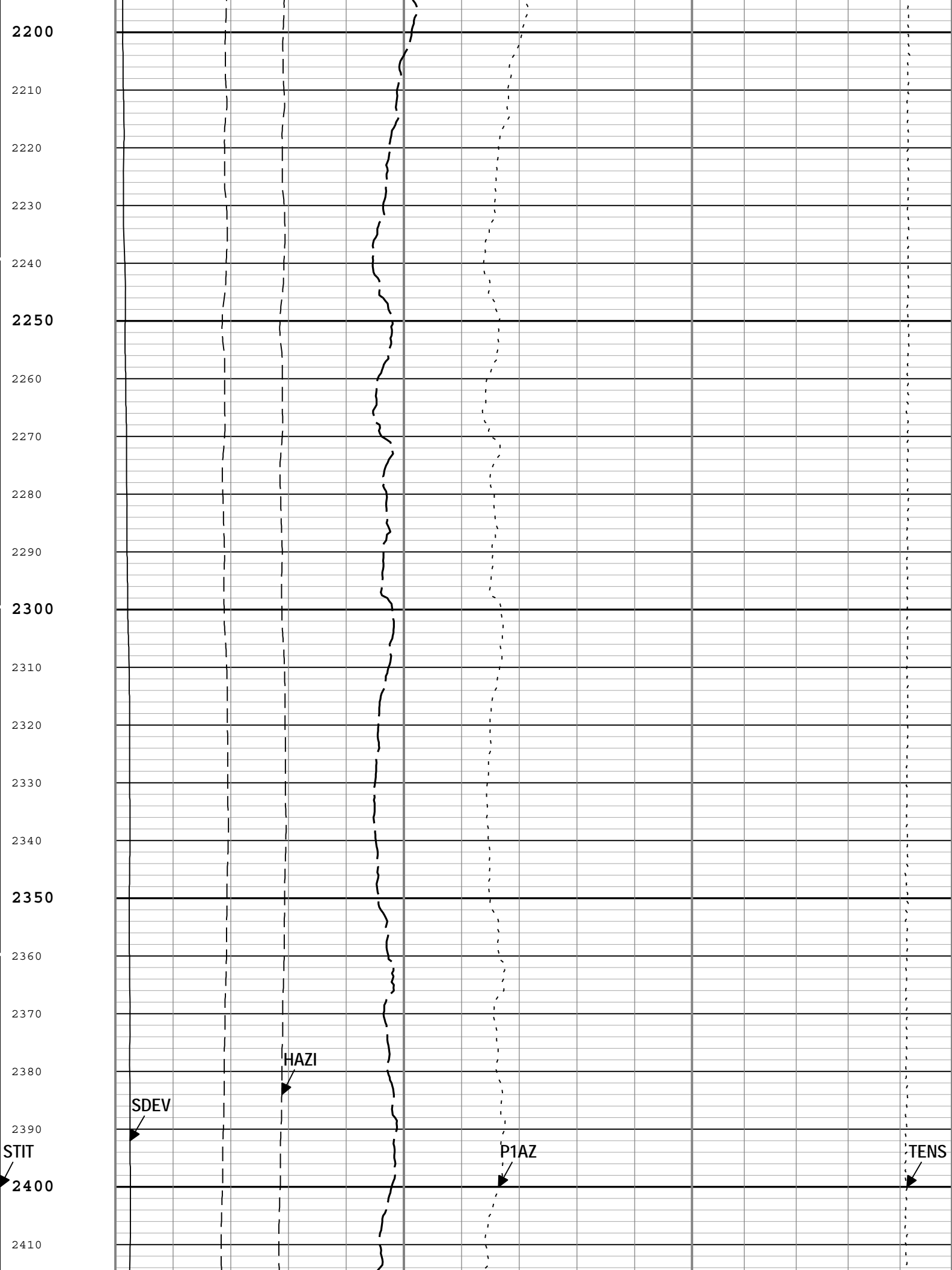


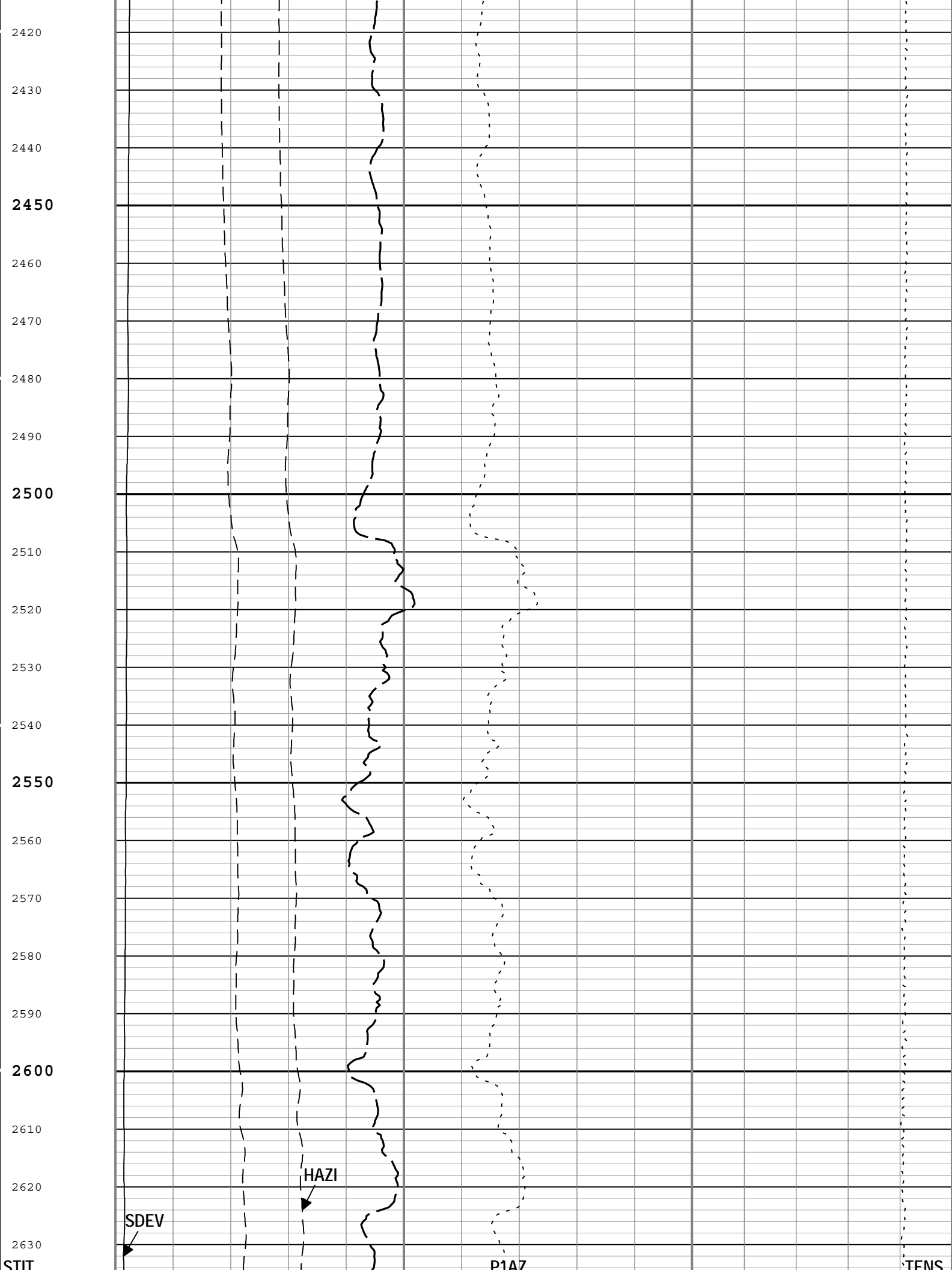


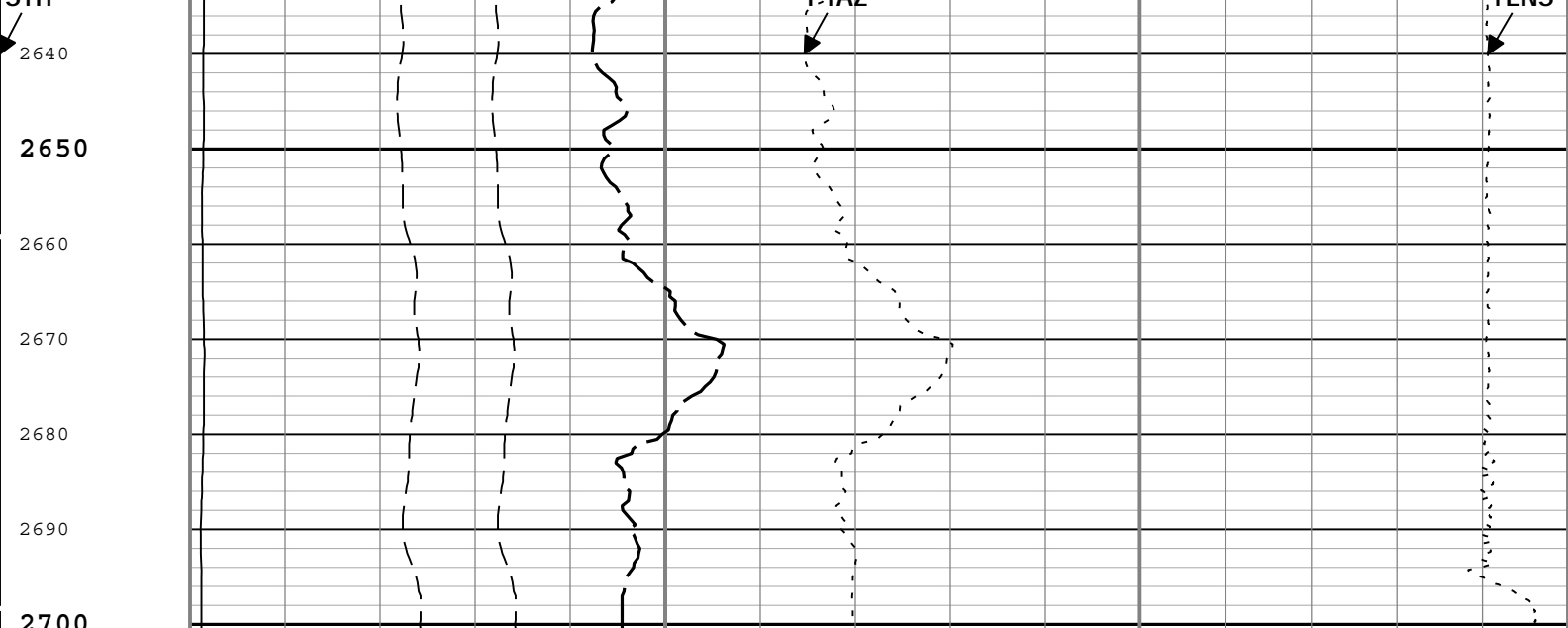












Stuck Tool Indicator, Total (STIT)	Hole Azimuth Relative to True North (HAZI) GPIT-F		Cable Tension (TENS)	
	0	deg	400	10000 lbf 0
	0	Absent (SDEV lower than PADT)		0
	1	Present (SDEV greater than PADT)		1
Cable Drag	Pad 1 Azimuth in Horizontal Plane (0 = True North) (P1AZ) GPIT-F			
	0	deg	400	
	Relative 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: 17-Nov-2014 12:03:57

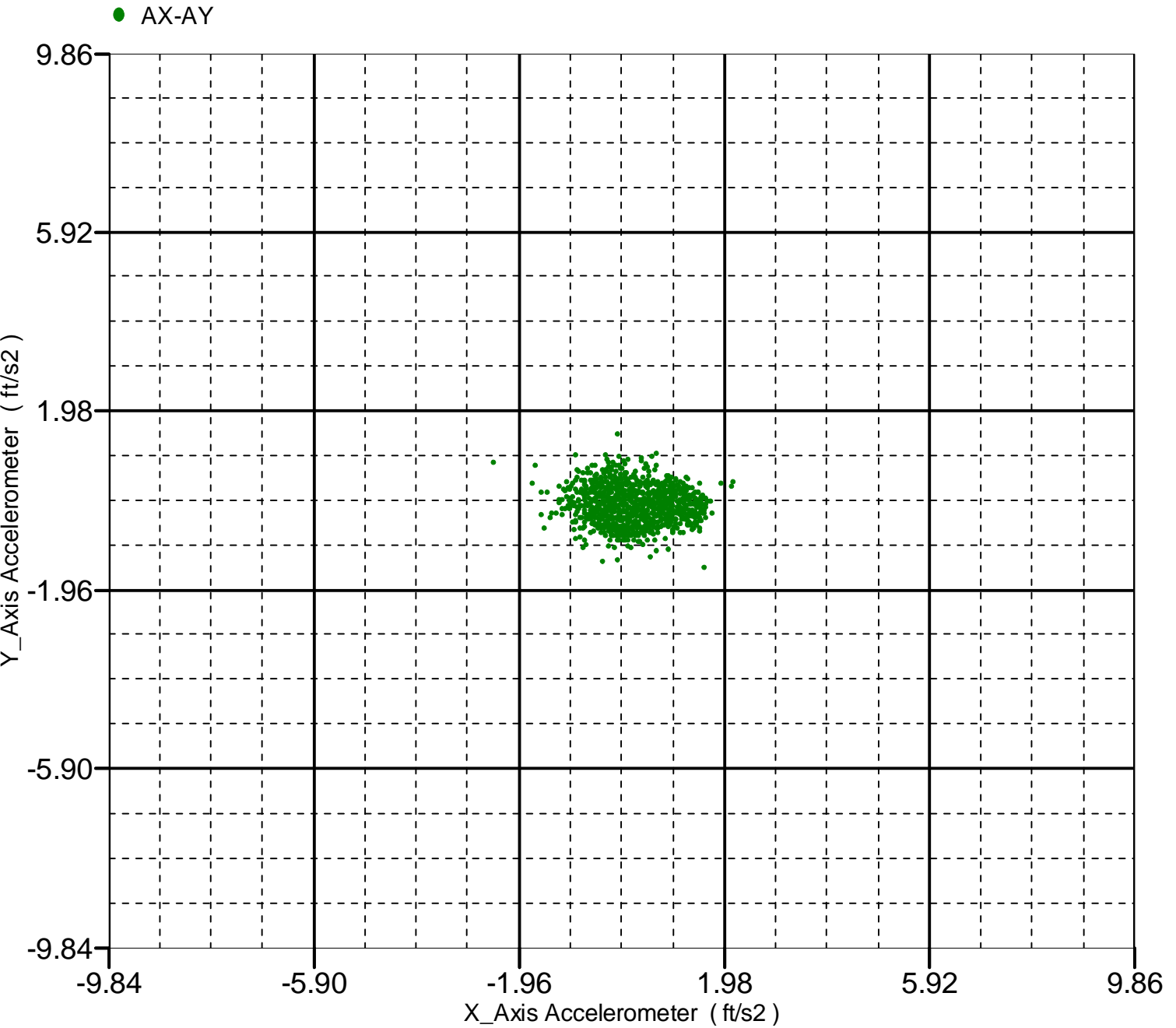
Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
CBLO	Casing Bottom (Logger)	WLSESSION	498	ft
ICMO	Inclinometry Computation Mode	GPIT-F	Automatic Selection	
LOG_SPEED_RNG	Logging Speed Range	GPIT-F	Normal (600 ft/h - 3600 ft/h)	
TD	Total Measured Depth	Borehole	2695	ft
USER_LOCB	User-supplied values for Magnetic Flux Density	WLSESSION	52926.18	nT
USER_MDEC	User-supplied values for Magnetic Declination	WLSESSION	7.13	deg
USER_MDIP	User-supplied values for Magnetic Dip Angle	WLSESSION	67.32	deg

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

AX vs. AY

2D Cross Plot

Index Range: From 2701.00 to 480.00 ft



XYZ

Company: Omimex Petroleum Inc

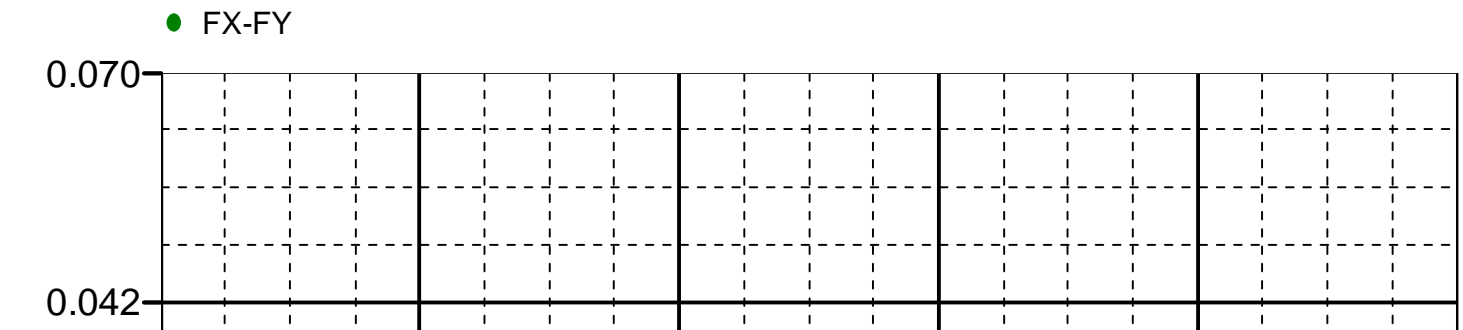
Well: Mailander 4-34-6-45

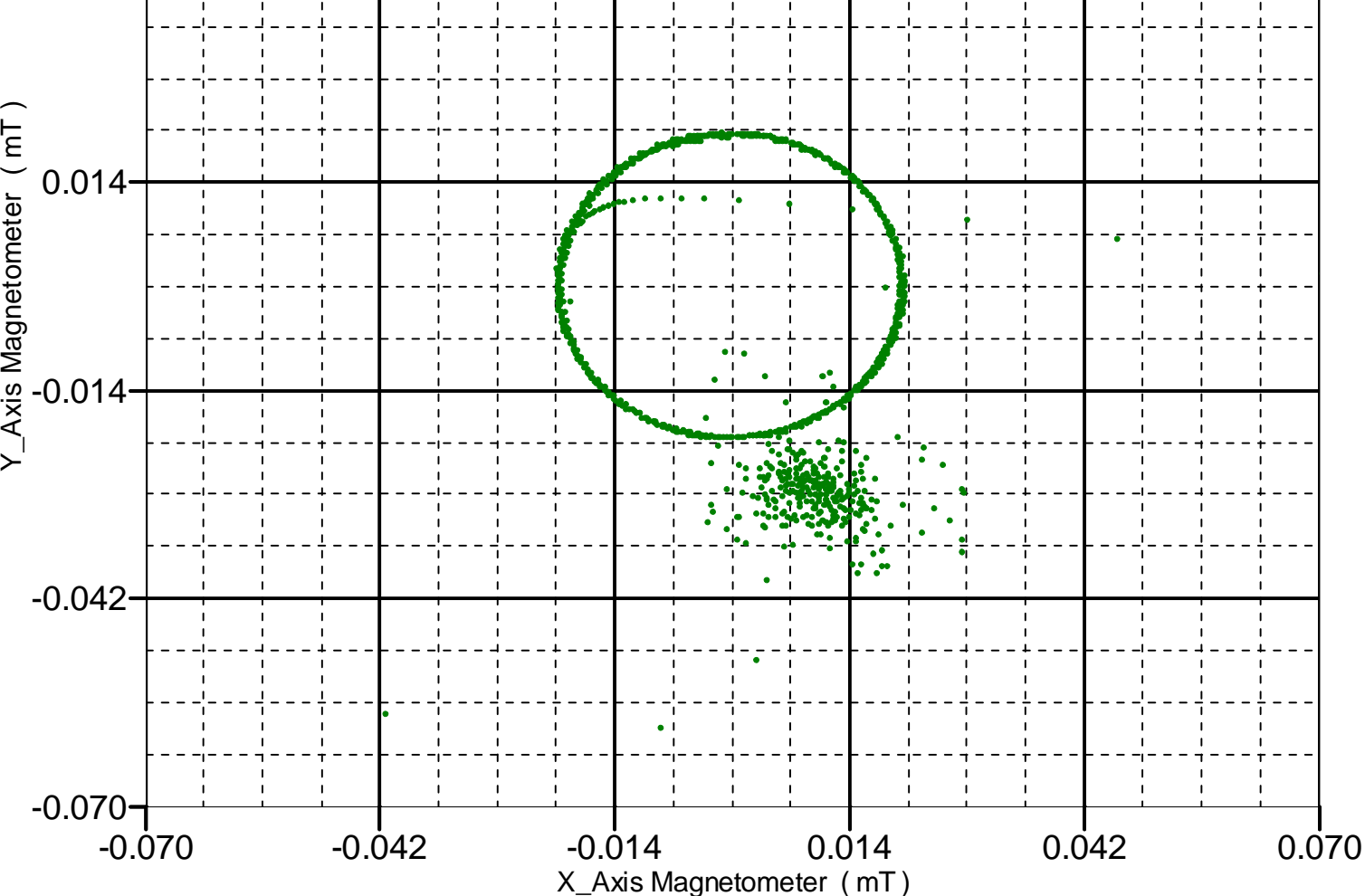
ONE: Log[3]:Up:S011

FX vs. FY

2D Cross Plot

Index Range: From 2701.00 to 480.00 ft





Calibration Report

GPIT-F (General-Purpose Inclinator Tool) Calibration - Run ONE

Primary Equipment :

DHRU-F

DHRU-F

799

Signals and Temperature Correction for Accelerometers

Master (EEPROM): 00:00:00 25-Mar-2007

GPITF_ACCX_MODEL GPIT-F Accelero X Model
(Master)

	Racx**0	Racx**1
Temp**0	0.01004	0.0006686
Temp**1	-0.0002973	-7.547E-08
Temp**2	7.824E-06	5.155E-10
Temp**3	-3.246E-08	-3.304E-12

GPITF_ACCY_MODEL GPIT-F Accelero Y Model
(Master)

	Racy**0	Racy**1
Temp**0	0.02525	-0.0006675
Temp**1	0.0001103	7.694E-08
Temp**2	-6.932E-06	-5.726E-10
Temp**3	2.529E-08	3.514E-12

GPITF_ACCZ_MODEL GPIT-F Accelero Z Model
(Master)

	Racz**0	Racz**1
Temp**0	0.0332	0.0006767
Temp**1	-0.0003086	-8.402E-08

Temp**1	0.000000	0.402E-05
Temp**2	5.16E-06	5.923E-10
Temp**3	-2.277E-08	-3.469E-12

Perpendicular Correction for Accelerometers

Master (EEPROM): 00:00:00 25-Mar-2007							
GPITF_ACC_AXIS_MODE GPIT-F Accelero Axis Model L (Master)							
	Data**0	Data**1	Data**2	Data**3	Data**4	Data**5	Data**6
Temp**0	0.001837	-0.0004671	-0.0008078	-3.386E-05	-1.416E-05	0.0004458	0
Temp**1	-2.085E-06	-6.004E-06	6.579E-06	-9.407E-07	1.657E-06	1.694E-06	0

Signals and Temperature Correction for Magnetometer

Master (EEPROM): 00:00:00 25-Mar-2007		
GPITF_MAGX_MODEL GPIT-F Magneto X Model (Master)		
	Rmagx**0	Rmagx**1
Temp**0	181.8	4.865
Temp**1	-3.717	-0.0002706
Temp**2	0.05241	4.475E-06
Temp**3	-0.000188	-1.877E-08
GPITF_MAGY_MODEL GPIT-F Magneto Y Model (Master)		
	Rmagy**0	Rmagy**1
Temp**0	-84.65	-4.938
Temp**1	-0.4524	0.0004073
Temp**2	0.01529	-5.572E-06
Temp**3	-5.748E-05	2.272E-08
GPITF_MAGZ_MODEL GPIT-F Magneto Z Model (Master)		
	Rmagz**0	Rmagz**1
Temp**0	-79.15	4.879
Temp**1	0.5691	-0.0003812
Temp**2	-0.02047	5.573E-06
Temp**3	6.838E-05	-2.26E-08

Perpendicular Correction for Magnetometer

Master (EEPROM): 00:00:00 25-Mar-2007							
GPITF_MAG_AXIS_MODE GPIT-F Magneto Axis Model L (Master)							
	Data**0	Data**1	Data**2	Data**3	Data**4	Data**5	Data**6
Temp**0	-0.0006571	0.003886	0.001791	0.005535	7.441E-05	-0.005725	0
Temp**1	-3.933E-06	-3.186E-06	5.509E-06	4.485E-07	-2.703E-06	1.894E-07	0

Master (EEPROM): 00:00:00 23-Mar-2007		
GPITF_ELEC_COEFF1 GPIT-F Electronic Coeff 1 (Master)		
	Data**0	Data**1
Temp**0	-0.8952	249.9
Temp**1	0.01395	0.008198

Temp**2	1.39E-05	-0.0002052
Temp**3	-1.841E-06	1.995E-06
Temp**4	9.326E-09	-7.143E-09
GPITF_ELEC_COEFF2 GPIT-F Electronic Coeff 2 (Master)		
	Data**0	Data**1
Temp**0	-0.5616	250
Temp**1	0.028	0.007144
Temp**2	-0.0002619	-0.0001819
Temp**3	4.204E-07	1.851E-06
Temp**4	1.833E-09	-6.841E-09
GPITF_ELEC_COEFF3 GPIT-F Electronic Coeff 3 (Master)		
	Data**0	Data**1
Temp**0	-3.372	249.8
Temp**1	0.02644	0.01735
Temp**2	-0.0001189	-0.0003523
Temp**3	-5.303E-07	3.076E-06
Temp**4	4.865E-09	-1E-08

Master (EEPROM): 00:00:00 23-Mar-2007		
GPITF_ELEC_COEFF4 GPIT-F Electronic Coeff 4 (Master)		
	Data**0	Data**1
Temp**0	-0.4945	0.128
Temp**1	0.02399	4.302E-06
Temp**2	-0.000384	-1.071E-07
Temp**3	3.061E-06	1.025E-09
Temp**4	-8.516E-09	-3.602E-12
GPITF_ELEC_COEFF5 GPIT-F Electronic Coeff 5 (Master)		
	Data**0	Data**1
Temp**0	-0.4945	0.128
Temp**1	0.02399	4.302E-06
Temp**2	-0.000384	-1.071E-07
Temp**3	3.061E-06	1.025E-09
Temp**4	-8.516E-09	-3.602E-12
GPITF_ELEC_COEFF6 GPIT-F Electronic Coeff 6 (Master)		
	Data**0	Data**1
Temp**0	-0.4945	0.128
Temp**1	0.02399	4.302E-06
Temp**2	-0.000384	-1.071E-07
Temp**3	3.061E-06	1.025E-09
Temp**4	-8.516E-09	-3.602E-12

Company:	Omimex Petroleum Inc	Schlumberger
Well:	Mailander 4-34-6-45	
Field:	Ballyneal	
County:	Phillips	
State:	Colorado	
Platform Express		
Inclinometry Log		