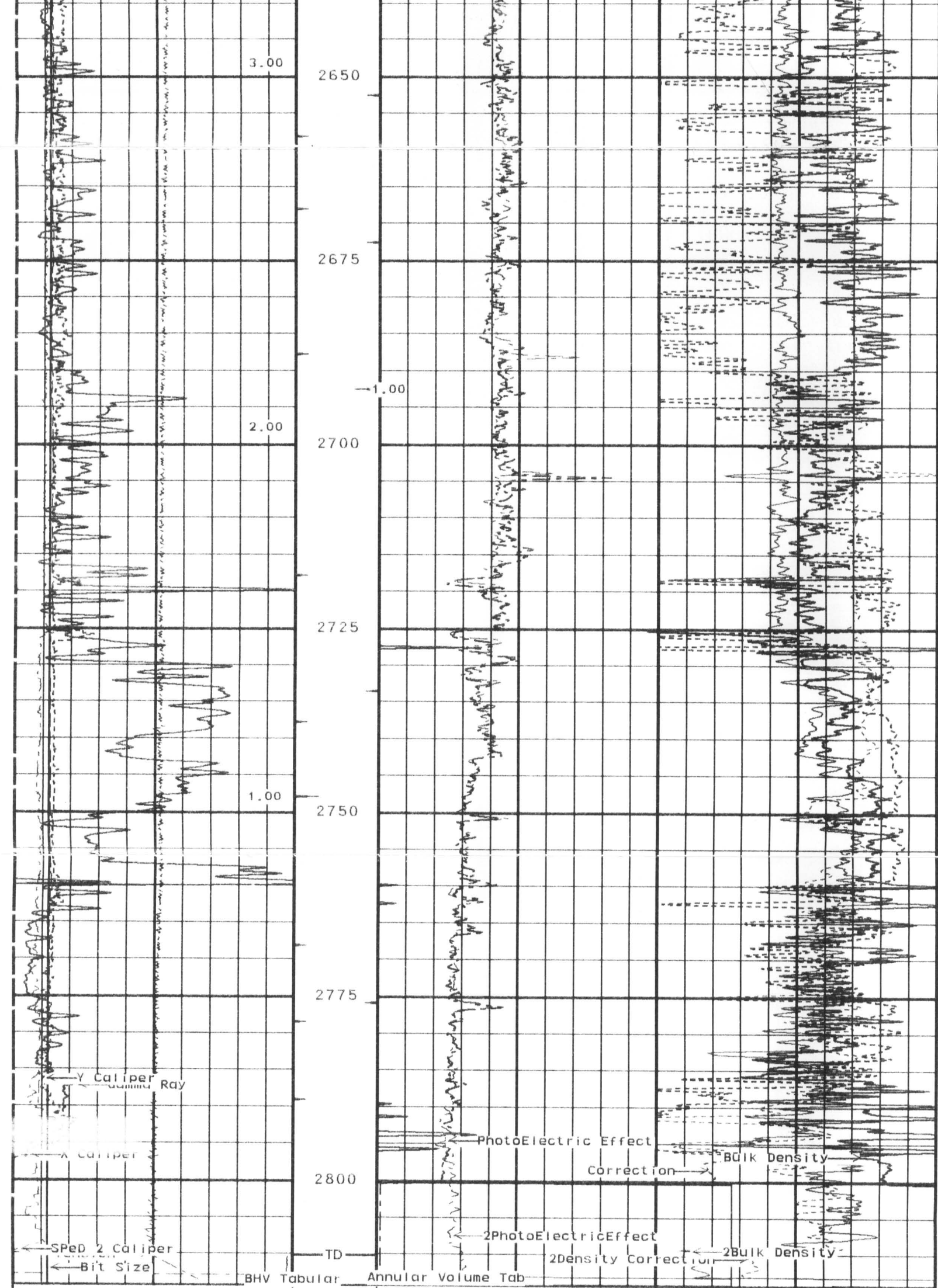




SPeD 2 Caliper		Borehol	2PhotoElectricEffect	2Density Correction
125	Millimeters	375	0.0 0.7	0.0 10.0 450
X Caliper (CALI)		Annular	PE (PEF)	Den. Corr. (DRHO)
125	Millimeters	375	0.7 0.0	0 10 450
Gamma Ray (GR)				
0	API	150		
Y Caliper (CAL2)				
125	Millimeters	375		
Tension (TENS)				
10000	Pounds	0		

START DEPTH: 2813.4 DIRECTION: UP DATE: 02/24/2004 TIME: 22:48 MODE: TRACE PLAYBACK
BHV CASING SIZE: 114.30 Millimeters CALIPERS: CALI,CAL2,None
30017929 SPDMP

MAIN PASS
DEPTH SCALE: 1:600 VERSION: 2003.07.25.245

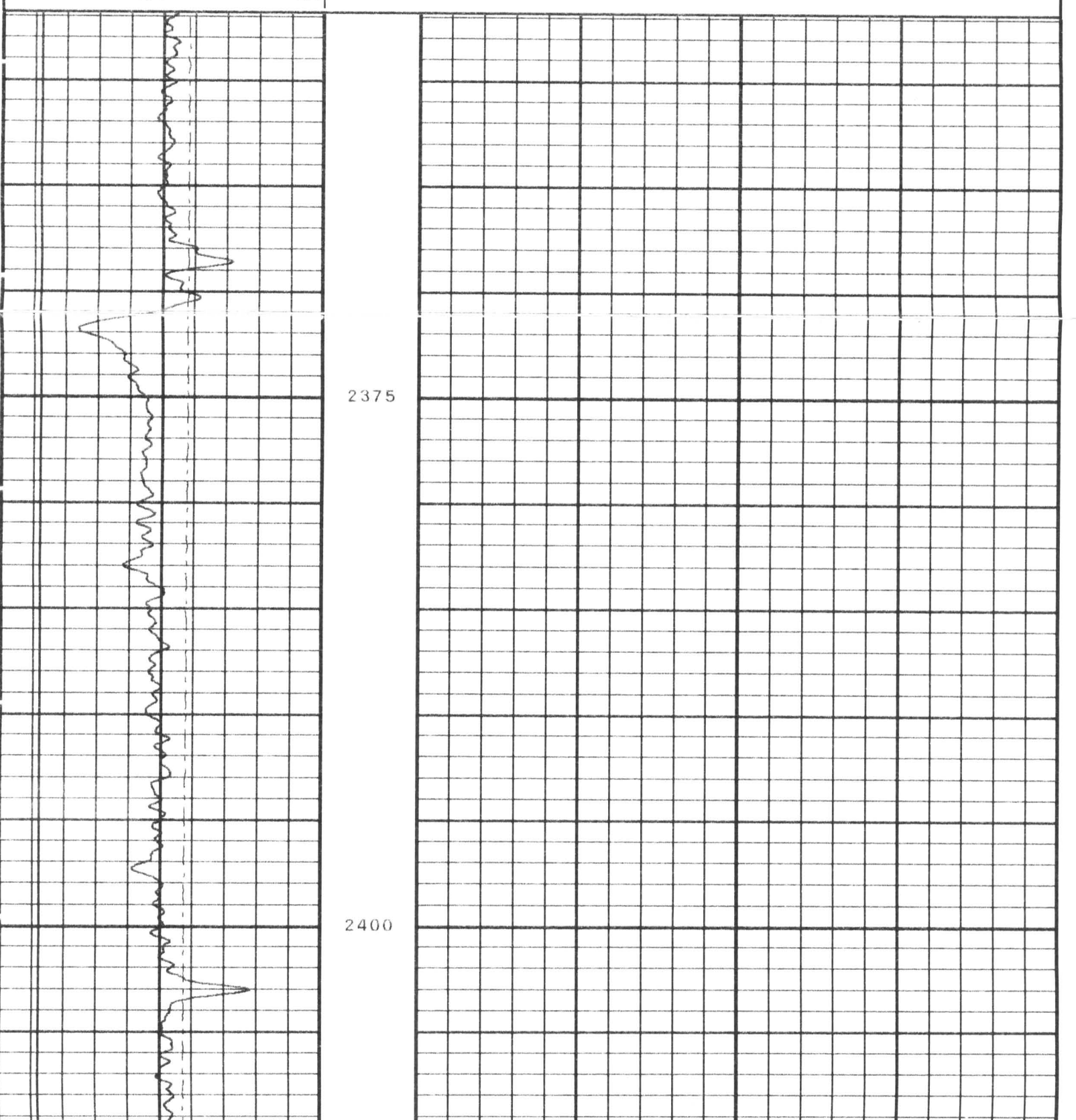
SYSTEM CONSTANTS			
NAME	DESCRIPTION	VALUE	UNITS
TDL	TD-Logger	2810.10	Meters
CSIZ	Casing Size	177.8	Millimeters
CWEI	Casing Weight	38.69	Kilograms/Meter
BS	Bit Size	155.6	Millimeters
BHT	Bottom Hole Temp	125.0	DegreesCentigrade
SFT	Mean Annual Surf Temp	5.0	DegreesCentigrade
SACC	Accumulation Time	100	Seconds
BARI	Barite Correction	0FF	
MM	Mud Weight	1045.0	Kilograms/Cu.Meter
MDEN	Matrix Density	2710	Kilograms/Cu.Meter
FD	Fluid Density	1000	Kilograms/Cu.Meter
SPVS	SPeD Valve Status	OUT	
NGAI	K Factor-NEU	0.996	
BHS	Open/Cased Hole	Open	
BSAL	Borehole Salinity	0	Parts/Million
FSAL	Formation Salinity	0	Parts/Million
NBCS	BitSize/Calp Sel-CNT	Caliper	
NTLS	Tool Type-CNT	CNT-S	
TGRD	Temperature Gradient	0.555	DegC/100Meters
TMRS	Temp Source-CNT	Gradient	
NCOT	Constant Temp-CNT	21.0	DegreesCentigrade
NCOR	Cnt Ch Corr Offset	0FF	
OCOR	Cnt Environ.correction	0FF	
SPTL	Log With SP From	MCS	
SPDD	SP Drift Corr. mV	0	Millivolts
SPBR	SP Bridle Depth Offset	1.05	Meters
SHAN	Sheave Wheel Angle	0.00	Degrees
NCAL	LIS Caliper Name-CNT	X Caliper	
SCAL	Density BH Diam Source	X Caliper	
BHC1	BHV Caliper Source 1	CALI	
BHC2	BHV Caliper Source 2	CALI	
BHC3	BHV Caliper Source 3	None	
BDC1	BHV Diff Cal Source	CALI	
BHC6	BHV Method	Standard BHV	

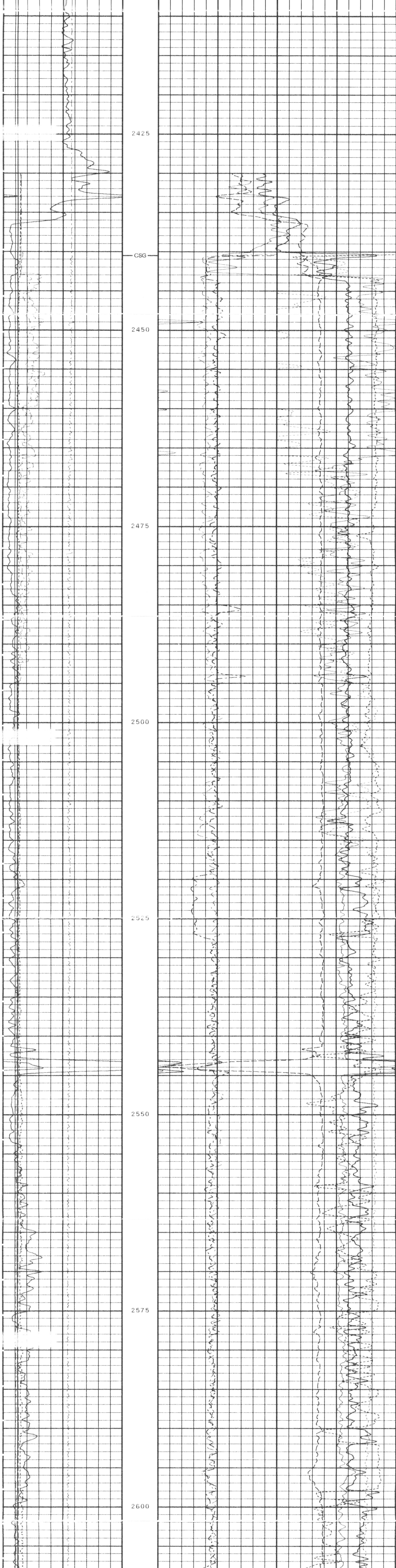
REMARKS
MAIN PASS
1:240 SCALE
SANDSTONE MATRIX (2650 Kg/m3)

DEPTH SCALE: 1:240 MAIN PASS
VERSION: 2003.07.25.245

30017929 SPDMP
FINISH DEPTH: 0.0 Meters DIRECTION: UP DATE: TIME: MODE: TRACE PLAYBACK

Tension (TENS)	
10000	Pounds
0	
Gamma Ray (GR)	
0	API
150	





2625

2650

2675

2700

2725

2750

2775

2800

FR Y Caliper
FR Gamma Ray

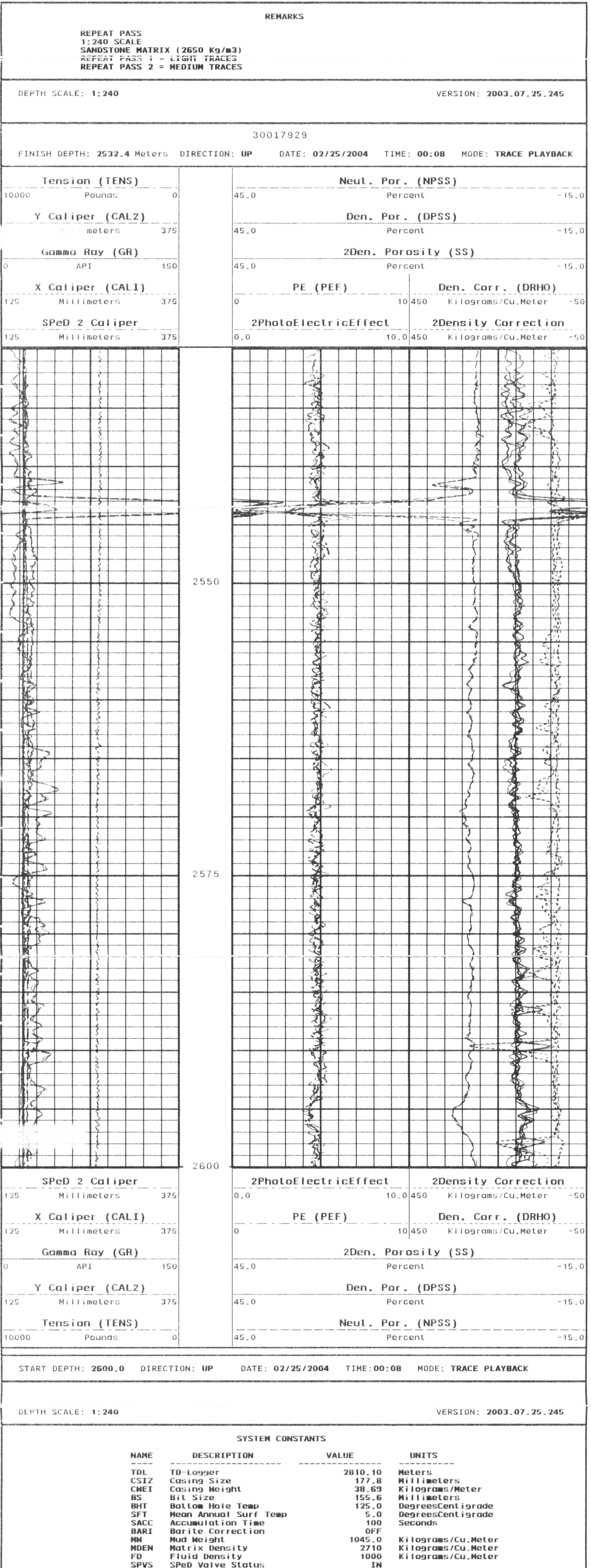
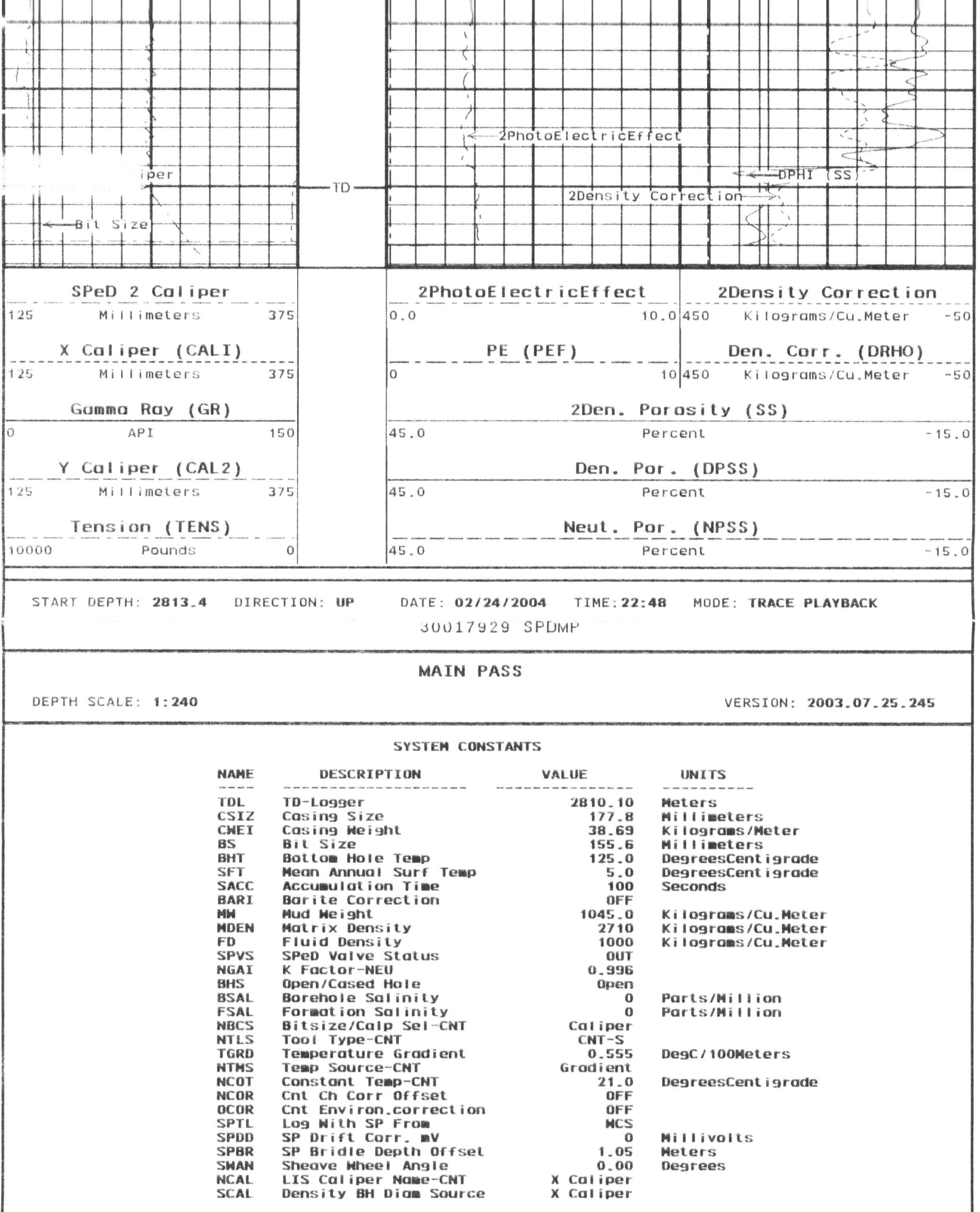
FR X Caliper

FR Neutron Porosity

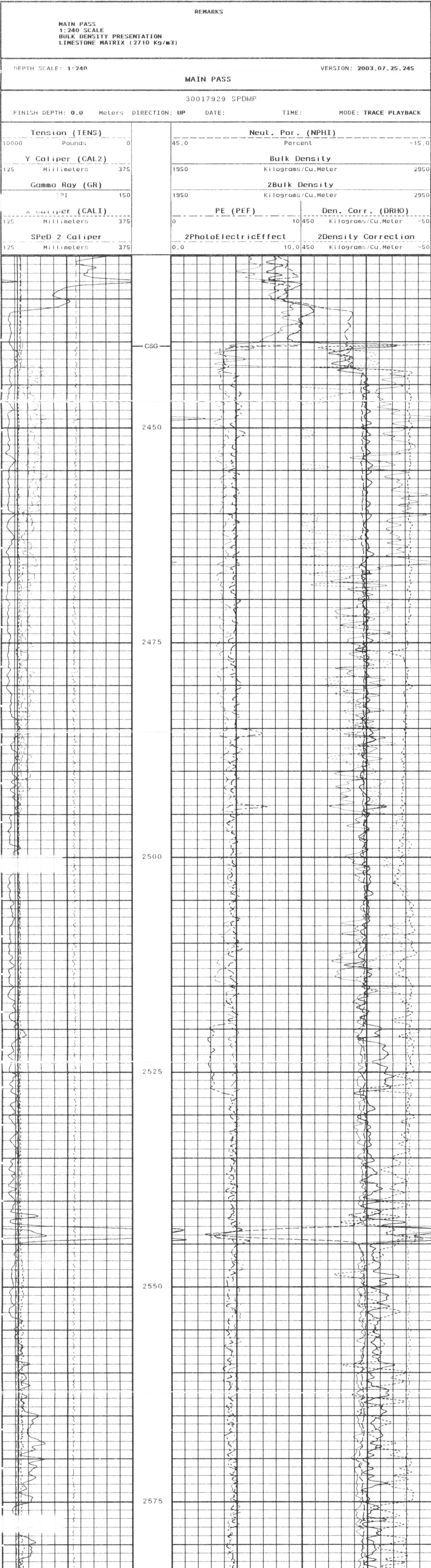
PhotoElectric Effect

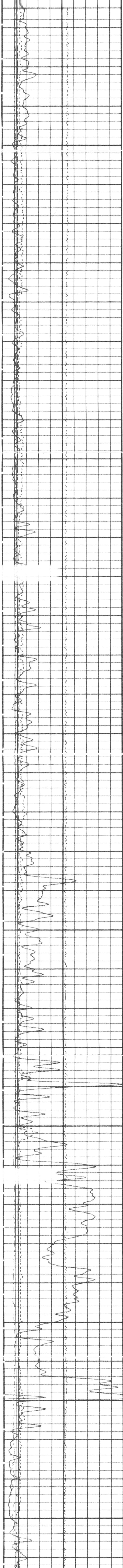
Correction

FR Density Porosity



NGAL	K Factor-NEU	0.996	
BHS	Open/Cased Hole	Open	
BSAL	Borehole Salinity	0	Parts/Million
FSAL	Formation Salinity	0	Parts/Million
NBCS	Bitsize/Calp Sel-CNT	Caliper	
NTLS	Tool Type-CNT	CNT-S	
TGRD	Temperature Gradient	0.555	DegC/100Meters
NTMS	Temp Source-CNT	Gradient	
NCOT	Constant Temp-CNT	21.0	DegreesCentigrade
NCOR	Cnt Ch Corr Offset	OFF	
OCOR	Cnt Environ.correction	OFF	
SPTL	Log With SP From	MCS	
SPDD	SP Drift Corr. mV	0	Millivolts
SPBR	SP Bridge Depth Offset	1.05	Meters
SWAN	Sheave Wheel Angle	0.00	Degrees
NCAL	LIS Caliper Name-CNT	X Caliper	
SCAL	Density BH Diam Source	X Caliper	





2600

2625

2650

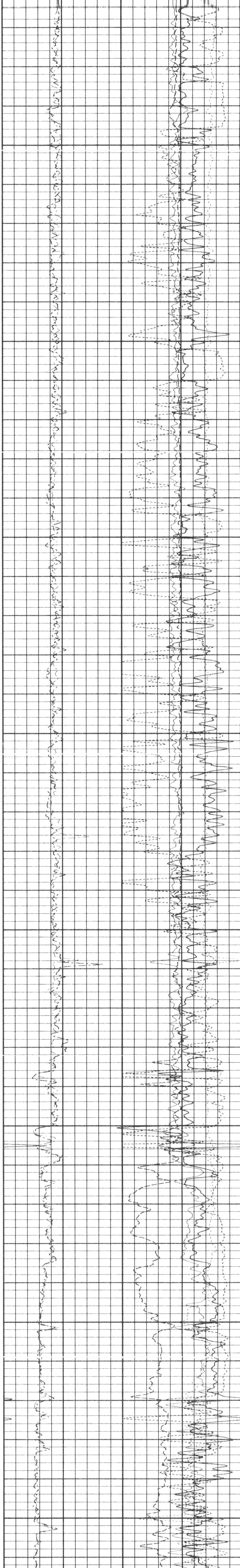
2675

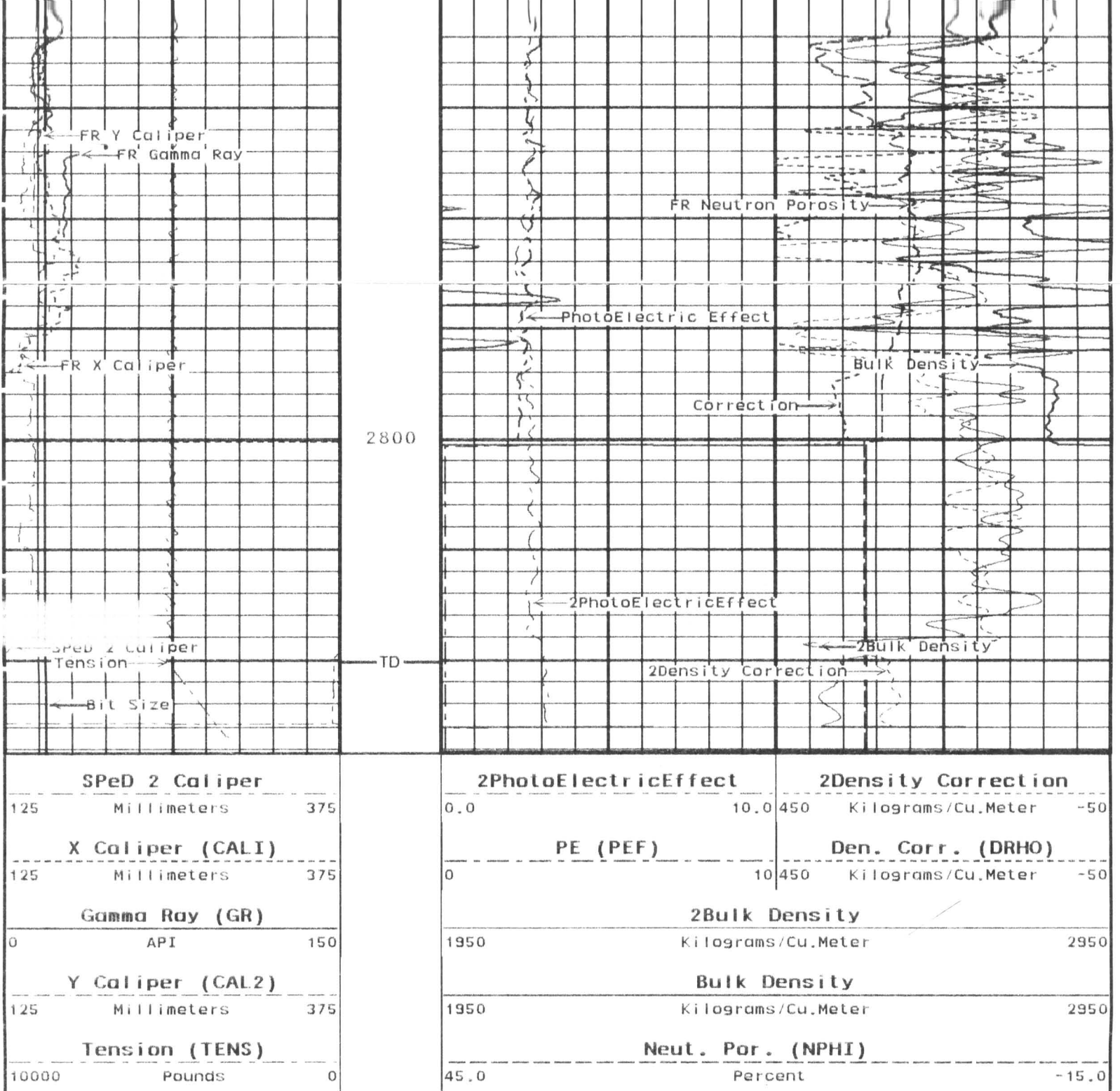
2700

2725

2750

2775





START DEPTH: 2813.4 DIRECTION: UP DATE: 02/24/2004 TIME: 22:48 MODE: TRACE PLAYBACK
30017929 SPDMP

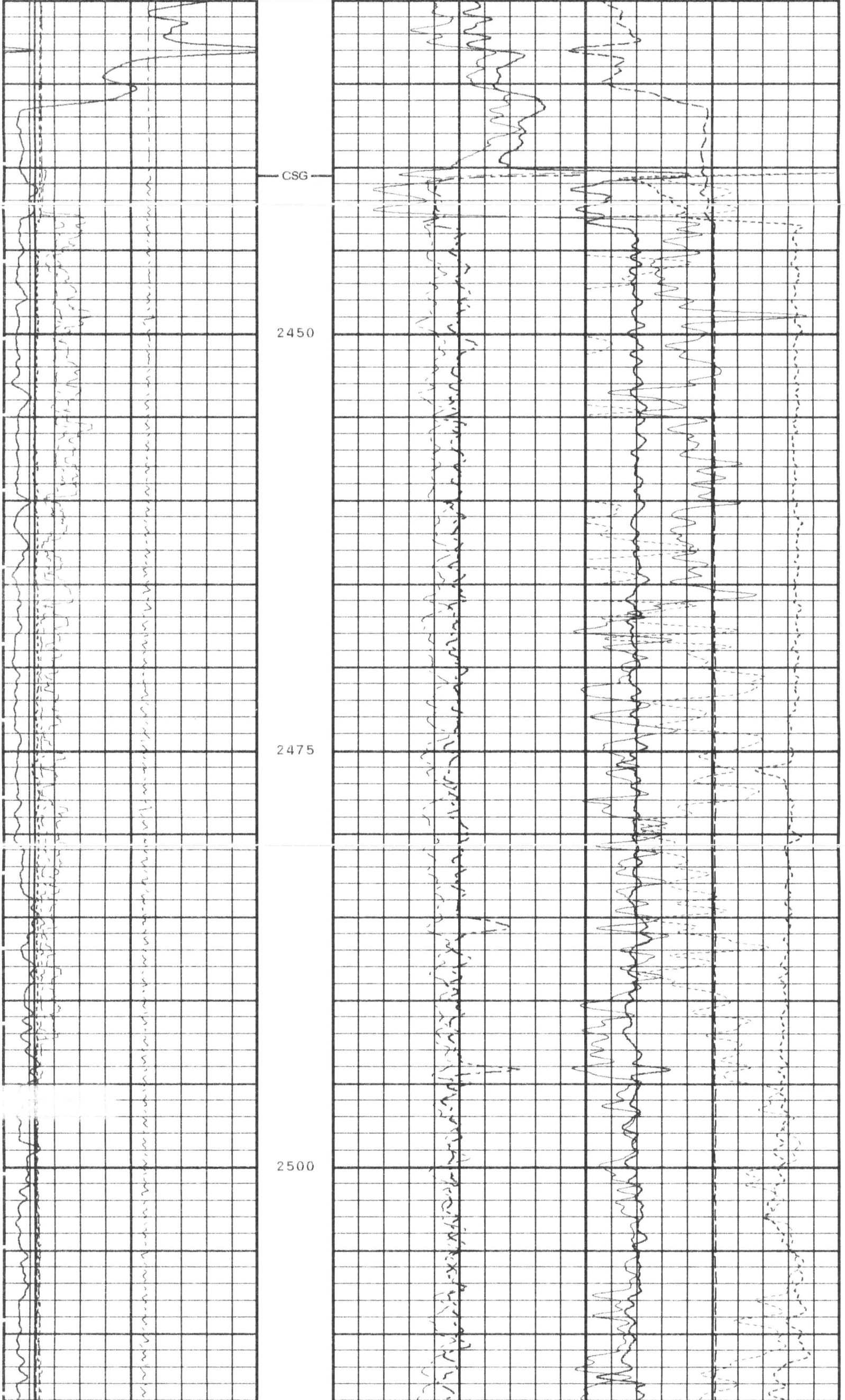
MAIN PASS
DEPTH SCALE: 1:240 VERSION: 2003.07.25.245

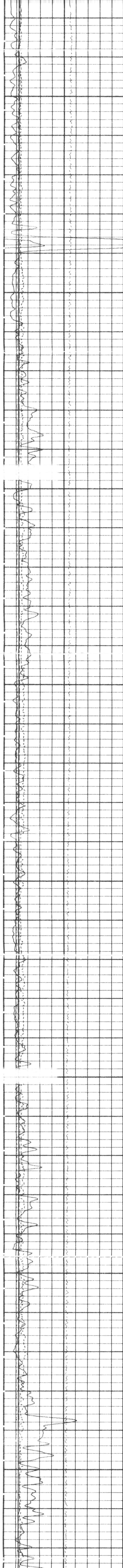
SYSTEM CONSTANTS			
NAME	DESCRIPTION	VALUE	UNITS
TDL	TD-Logger	2810.10	Meters
CSIZ	Casing Size	177.8	Millimeters
CWEI	Casing Weight	38.69	Kilograms/Meter
BS	Bit Size	155.6	Millimeters
BHT	Bottom Hole Temp	125.0	DegreesCentigrade
SFT	Mean Annual Surf Temp	5.0	DegreesCentigrade
SACC	Accumulation Time	100	Seconds
BARI	Barite Correction	OFF	
MW	Mud Weight	1045.0	Kilograms/Cu.Meter
MDEN	Matrix Density	2710	Kilograms/Cu.Meter
FD	Fluid Density	1000	Kilograms/Cu.Meter
SPVS	SPeD Valve Status	OUT	
NGAI	K Factor-NEU	0.996	
BHS	Open/Cased Hole	Open	
BSAL	Borehole Salinity	0	Parts/Million
FSAL	Formation Salinity	0	Parts/Million
NBCS	BitSize/Calp Sel-CNT	Caliper	
NTLS	Tool Type-CNT	CNT-S	
TGRD	Temperature Gradient	0.555	DegC/100Meters
NTMS	Temp Source-CNT	Gradient	
NCOT	Constant Temp-CNT	21.0	DegreesCentigrade
NCOR	Cnt Ch Corr Offset	OFF	
OCOR	Cnt Environ.correction	OFF	
SPTL	Log With SP From	MCS	
SPDD	SP Drift Corr. mV	0	Millivolts
SPBR	SP Bridge Depth Offset	1.05	Meters
SWAN	Sheave Wheel Angle	0.00	Degrees
NCAL	LIS Caliper Name-CNT	X Caliper	
SCAL	Density BH Dia Source	X Caliper	

REMARKS
MAIN PASS
1:240 SCALE
DOLOMITE MATRIX (2870 Kg/m3)

DEPTH SCALE: 1:240 VERSION: 2003.07.25.245
MAIN PASS

30017929 SPDMP			
FINISH DEPTH: 0.0 Meters	DIRECTION: UP	DATE:	TIME: MODE: TRACE PLAYBACK
Tension (TENS) 10000 Pounds 0	Neut. Porosity (DL) 45.0 Percent -15.0		
Y Caliper (CAL2) 125 Millimeters 375	Den. Porosity (DL) 45.0 Percent -15.0		
Gamma Ray (GR) 0 API 150	2Den. Porosity (DL) 45.0 Percent -15.0		
X Caliper (CALI) 125 Millimeters 375	PE (PEF) 0 10 450	Den. Corr. (DRHO) Kilograms/Cu.Meter -50	
SPeD 2 Caliper 125 Millimeters 375	2PhotoElectricEffect 0.0 10.0 450	2Density Correction Kilograms/Cu.Meter -50	





2525

2550

2575

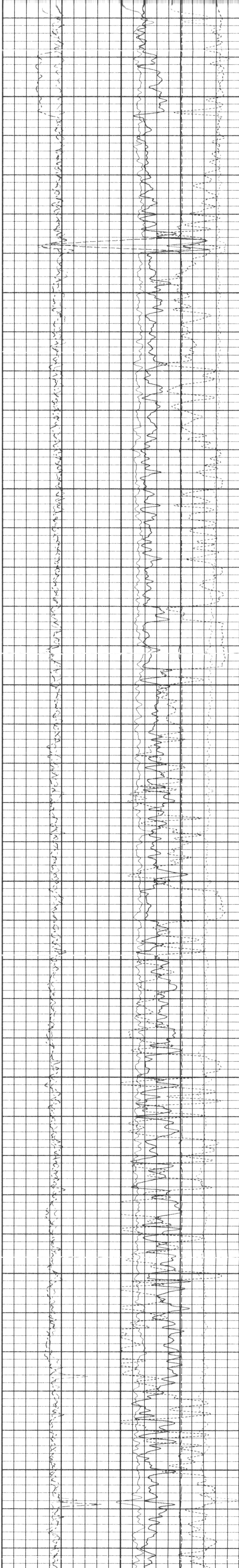
2600

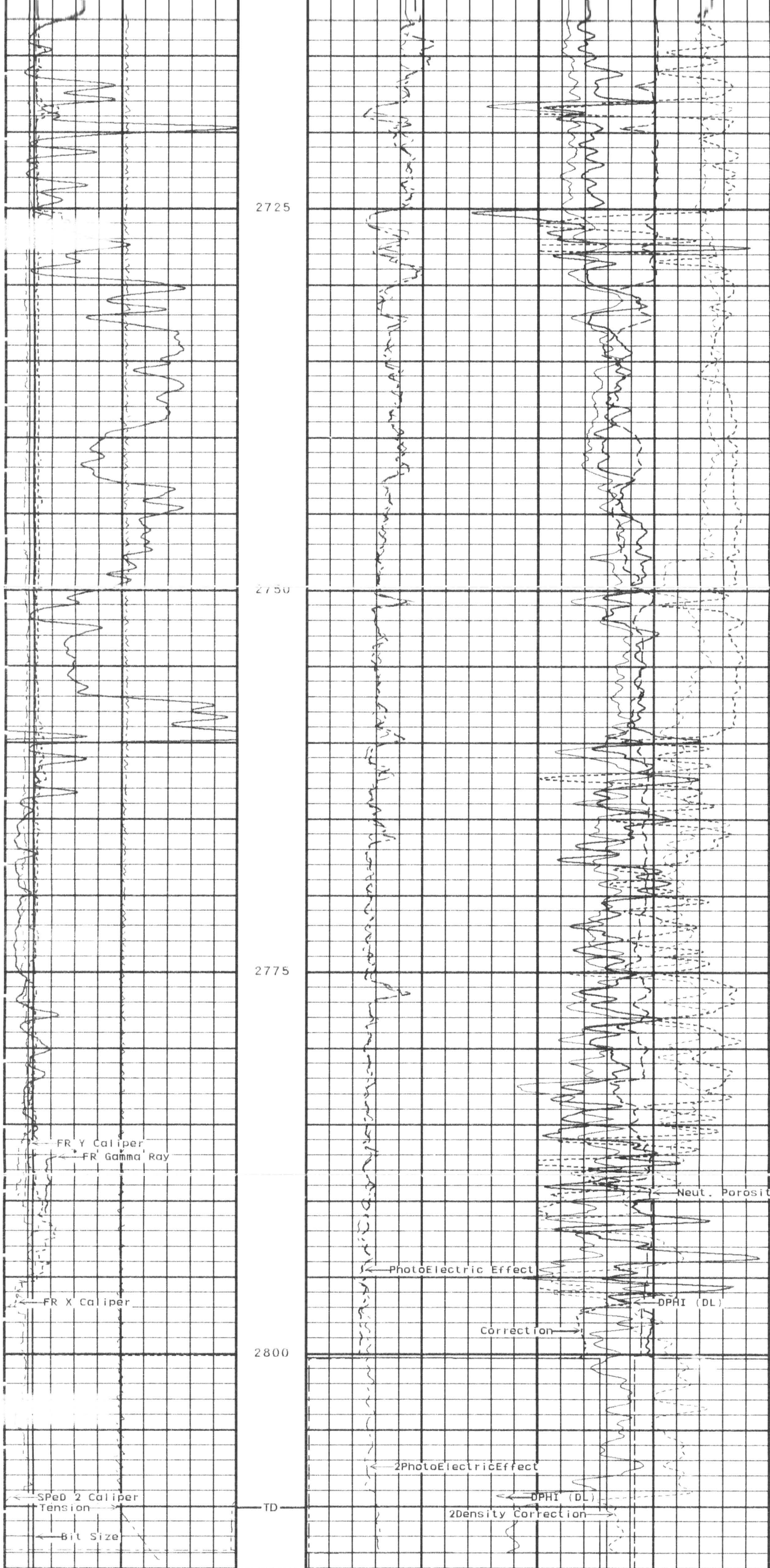
2625

2650

2675

2700





SPeD 2 Caliper		2PhotoElectricEffect		2Density Correction	
125	Millimeters	375	0.0	10.0	450 Kilograms/Cu.Meter -50
X Caliper (CALI)		PE (PEF)		Den. Corr. (DRHO)	
125	Millimeters	375	0	10	450 Kilograms/Cu.Meter -50
Gamma Ray (GR)		2Den. Porosity (DL)			
0	API	150	45.0	Percent	-15.0
Y Caliper (CAL2)		Den. Porosity (DL)			
125	Millimeters	375	45.0	Percent	-15.0
Tension (TENS)		Neut. Porosity (DL)			
10000	Pounds	0	45.0	Percent	-15.0

START DEPTH: 2813.4 DIRECTION: UP DATE: 02/24/2004 TIME: 22:48 MODE: TRACE PLAYBACK
30017929 SPDMP

MAIN PASS
DEPTH SCALE: 1:240 VERSION: 2003.07.25.245

SYSTEM CONSTANTS			
NAME	DESCRIPTION	VALUE	UNITS
TDL	TD-Logger	2810.10	Meters
CSIZ	Casing Size	177.8	Millimeters
CWEI	Casing Weight	38.69	Kilograms/Meter
BS	Bit Size	155.6	Millimeters
BHT	Bottom Hole Temp	125.0	DegreesCentigrade
SFT	Mean Annual Surf Temp	5.0	DegreesCentigrade
SACC	Accumulation Time	100	Seconds
BARI	Barite Correction	OFF	
MM	Mud Weight	1045.0	Kilograms/Cu.Meter
MDEN	Matrix Density	2710	Kilograms/Cu.Meter
FD	Fluid Density	1000	Kilograms/Cu.Meter
SPVS	SPeD Valve Status	OUT	
NGAI	K Factor-NEU	0.996	
BHS	Open/Cased Hole	Open	
BSAL	Borehole Salinity	0	Parts/Million
FSAL	Formation Salinity	0	Parts/Million
NBCS	Bitsize/Calp Sel-CNT	Caliper	
NTLS	Tool Type-CNT	CNT-S	
TGRD	Temperature Gradient	0.555	DegC/100Meters
NTMS	Temp Source-CNT	Gradient	
NCOT	Constant Temp-CNT	21.0	DegreesCentigrade
NCOR	Cnt Ch Corr Offset	OFF	
OCOR	Cnt Environ.correction	OFF	
SPTL	Log With SP From	NCS	
SPDD	SP Drift Corr. mV	0	Millivolts
SPBR	SP Bridle Depth Offset	1.05	Meters
SWAN	Sheave Wheel Angle	0.00	Degrees
NCAL	LIS Caliper Name-CNT	X Caliper	
SCAL	Density BH Diam Source	X Caliper	

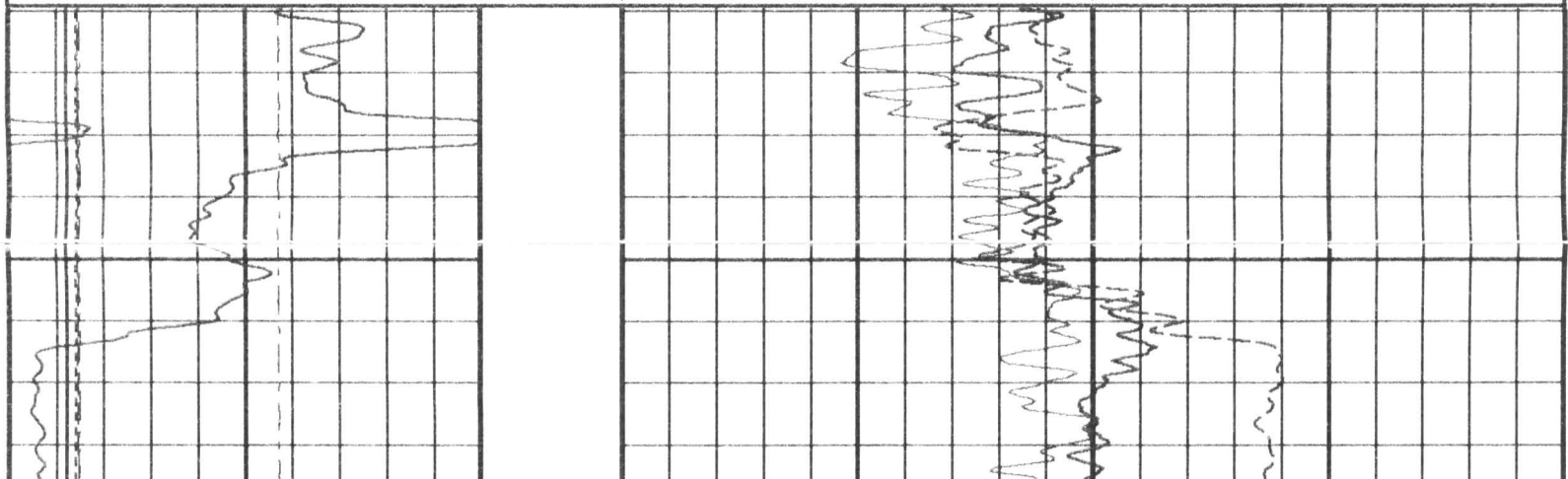
REMARKS
HIGH RESOLUTION PASS
1:120 SCALE
BULK DENSITY PRESENTATION
LIMESTONE MATRIX (2710 Kg/m3)

DEPTH SCALE: 1:120 VERSION: 2003.07.25.245

HIGH RESOLUTION PASS
30017929 HR

FINISH DEPTH: 0.0 Meters DIRECTION: UP DATE: TIME: MODE: TRACE PLAYBACK

Tension (TENS)		Neut. Por. (NPHI)	
10000	Pounds	0	45.0 Percent -15.0
Y Caliper (CAL2)		Bulk Density	
125	Millimeters	375	1950 Kilograms/Cu.Meter 2950
Gamma Ray (GR)		2Bulk Density	
0	API	150	1950 Kilograms/Cu.Meter 2950
X Caliper (CALI)		PE (PEF)	
125	Millimeters	375	0 10 450 Kilograms/Cu.Meter -50
SPeD 2 Caliper		2PhotoElectricEffect	
125	Millimeters	375	0.0 10.0 450 Kilograms/Cu.Meter -50



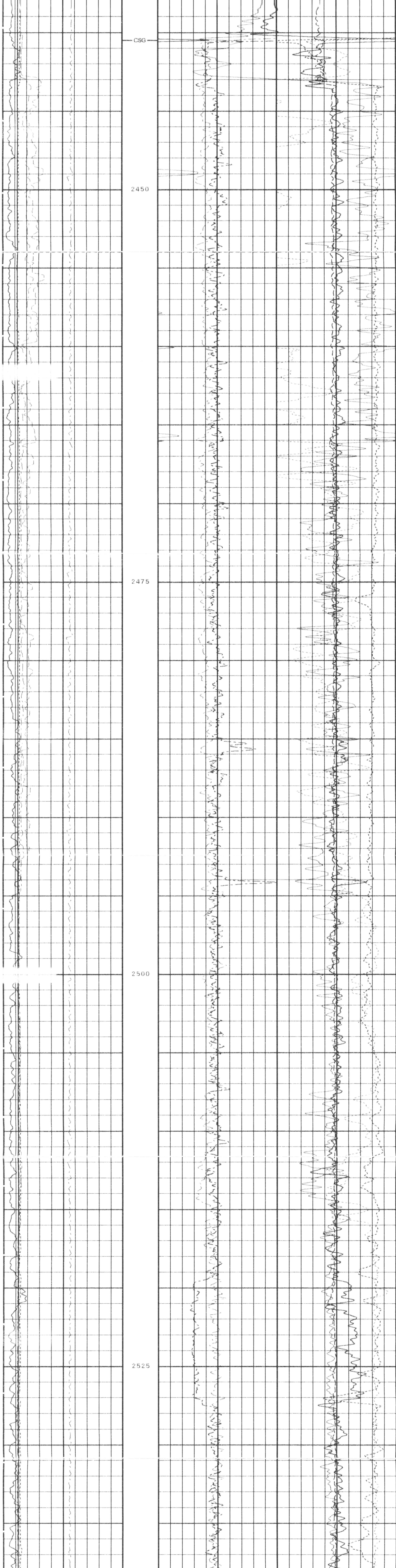
CSG

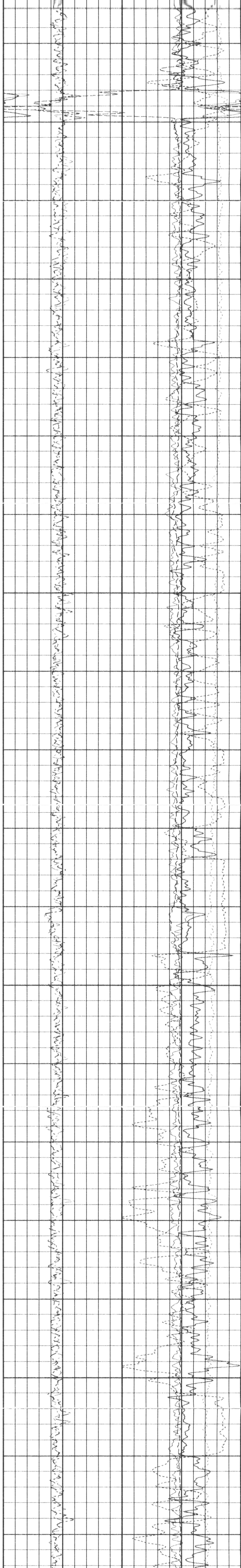
2450

2475

2500

2525



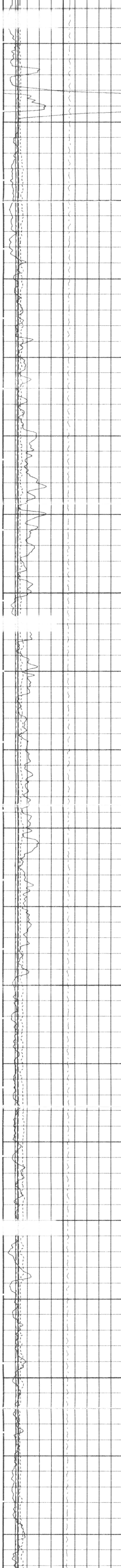


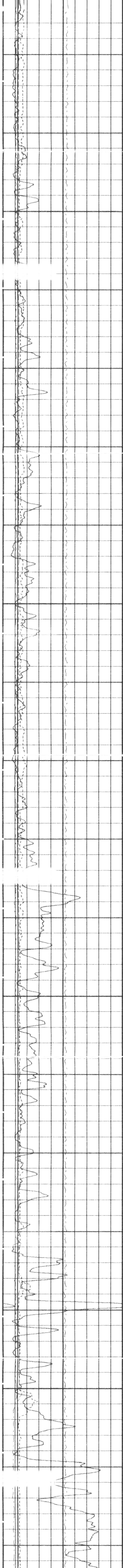
2550

2575

2600

2625



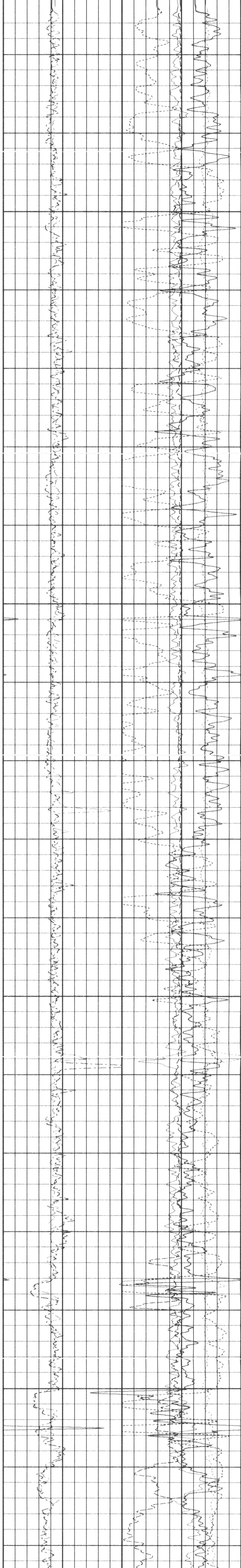


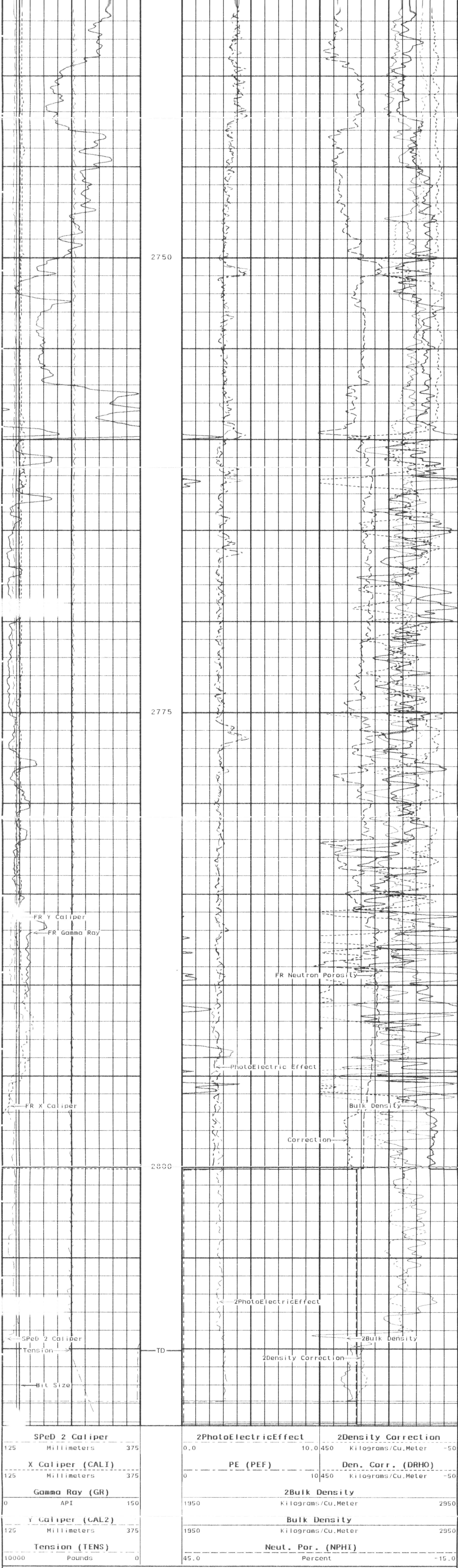
2650

2675

2700

2725





START DEPTH: 2813.4 DIRECTION: UP DATE: 02/24/2004 TIME: 23:00 MODE: TRACE PLAYBACK
30017929 HR

HIGH RESOLUTION PASS
DEPTH SCALE: 1:120 VERSION: 2003.07.25.245

SYSTEM CONSTANTS			
NAME	DESCRIPTION	VALUE	UNITS
TDL	TD-Logger	2810.10	Meters
CSIZ	Casing Size	177.8	Millimeters
CWEI	Casing Weight	38.69	Kilograms/Meter
BS	Bit Size	155.6	Millimeters
BHT	Bottom Hole Temp	125.0	DegreesCentigrade
SFT	Mean Annual Surf Temp	5.0	DegreesCentigrade
SACC	Accumulation Time	100	Seconds
BARI	Barite Correction	OFF	
MM	Mud Weight	1045.0	Kilograms/Cu.Meter
MDEN	Matrix Density	2710	Kilograms/Cu.Meter
FD	Fluid Density	1000	Kilograms/Cu.Meter
SPVS	SPeD Valve Status	OUT	
NGAI	K Factor-NEU	0.996	
BHS	Open/Cased Hole	Open	
BSAL	Borehole Salinity	0	Parts/Million
FSAL	Formation Salinity	0	Parts/Million
NBCS	BitSize/Calp Sel-CNT	Caliper	
NTLS	Tool Type-CNT	CNT-S	
TGRD	Temperature Gradient	0.555	DegC/100Meters
TMNS	Temp Source-CNT	Gradient	
NCOT	Constant Temp-CNT	21.0	DegreesCentigrade
NCOR	Cnt Ch Corr Offset	OFF	

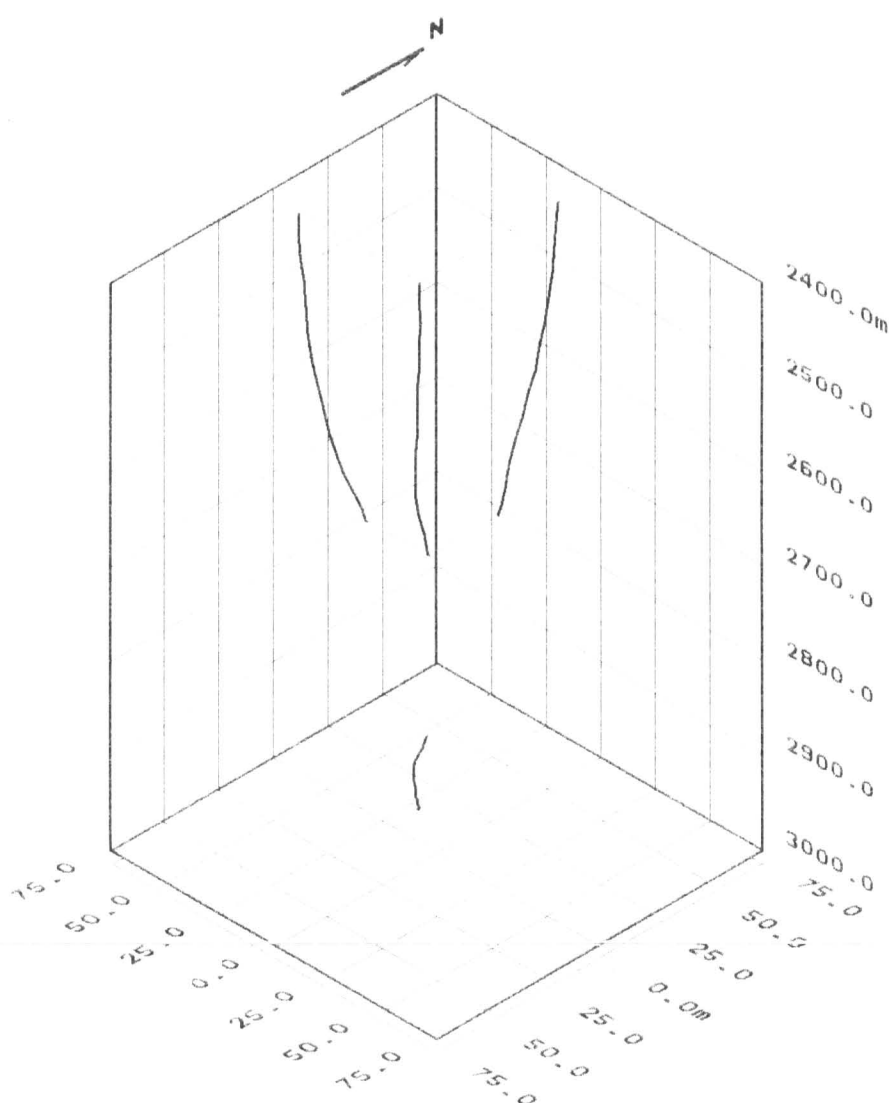
OCOR	Cnt Environ.correction	OFF
SPTL	Log With SP From	WCS
SPDD	SP Drift Corr. mV	0
SPBR	SP Bridle Depth Offset	1.05
SWAN	Sheave Wheel Angle	0.00
NCAL	LIS Caliper Name-CNT	X Caliper
SCAL	Density BH Diam Source	X Caliper
		Millivolts
		Meters
		Degrees

REMARKS			
CASING CHECK 1:240 SCALE SANDSTONE MATRIX (2650 Kg/m3)			
DEPTH SCALE: 1:240		VERSION: 2003.07.25.245	
MAIN PASS			
30017929 CSGCHK			
FINISH DEPTH: 0.0 Meters		DIRECTION: UP	DATE: TIME: MODE: TRACE PLAYBACK
Tension (TENS) 10000 Pounds 0		Neut. Por. (NPSS) 45.0 Percent -15.0	
Y Caliper (CAL2) 125 Millimeters 375		Den. Por. (DPSS) 45.0 Percent -15.0	
Gamma Ray (GR) 0 API 150		2Den. Porosity (SS) 45.0 Percent -15.0	
X Caliper (CALI) 125 Millimeters 375		PE (PEF) 0 10 450	Den. Corr. (DRHO) Kilograms/Cu.Meter -50
SPeD 2 Caliper 125 Millimeters 375		2PhotoElectricEffect 0.0 10.0 450	2Density Correction Kilograms/Cu.Meter -50
SPeD 2 Caliper 125 Millimeters 375		2PhotoElectricEffect 0.0 10.0 450 Kilograms/Cu.Meter -50	
X Caliper (CALI) 125 Millimeters 375		PE (PEF) 0 10 450 Kilograms/Cu.Meter -50	
Gamma Ray (GR) 0 API 150		2Den. Porosity (SS) 45.0 Percent -15.0	
Y Caliper (CAL2) 125 Millimeters 375		Den. Por. (DPSS) 45.0 Percent -15.0	
Tension (TENS) 10000 Pounds 0		Neut. Por. (NPSS) 45.0 Percent -15.0	
START DEPTH: 2500.4 DIRECTION: UP DATE: 02/24/2004 TIME: 22:41 MODE: TRACE PLAYBACK 30017929 CSGCHK			

SYSTEM CONSTANTS			
NAME	DESCRIPTION	VALUE	UNITS
TDL	TD-Logger	2810.10	Meters
CSIZ	Casing Size	177.8	Millimeters
CWEI	Casing Weight	38.69	Kilograms/Meter
BS	Bit Size	155.6	Millimeters
BHT	Bottom Hole Temp	125.0	DegreesCentigrade
SFT	Mean Annual Surf Temp	5.0	DegreesCentigrade
SACC	Accumulation Time	100	Seconds
BARI	Barite Correction	OFF	
MM	Mud Weight	1045.0	Kilograms/Cu.Meter
MDEN	Matrix Density	2710	Kilograms/Cu.Meter
FD	Fluid Density	1000	Kilograms/Cu.Meter
SPVS	SPeD Valve Status	IN	
NGAI	K Factor-NEU	0.996	
BHS	Open/Cased Hole	Open	
BSAL	Borehole Salinity	0	Parts/Million
FSAL	Formation Salinity	0	Parts/Million
NBCS	Bitsize/Calp Sel-CNT	Caliper	
NTLS	Tool Type-CNT	CNT-S	
TGRD	Temperature Gradient	0.555	DegC/100Meters
TMNS	Temp Source-CNT	Gradient	
NCOT	Constant Temp-CNT	21.0	DegreesCentigrade
NCOR	Cnt Ch Corr Offset	OFF	
OCOR	Cnt Environ.correction	OFF	
SPTL	Log With SP From	WCS	
SPDD	SP Drift Corr. mV	0	Millivolts
SPBR	SP Bridle Depth Offset	1.05	Meters
SWAN	Sheave Wheel Angle	0.00	Degrees
NCAL	LIS Caliper Name-CNT	X Caliper	
SCAL	Density BH Diam Source	X Caliper	

TVD CALCULATION SUMMARY						
=====						
CALCULATION METHOD : Minimum Curvature				VERSION : 1.0		
TVD DATA FILE : /u/os9-port/cs400/8000/30017929/30017929.tvdb						
COMPANY	: ANADARKO CANADA CORPORATION	DRILLED DEPTH	: 2812.24 m			
WELL	: ANADARKO ARROWHEAD RIVER K-35	TRUE VERTICAL DEPTH	: 2809.14 m			
LOCATION	: K-35	BOTTOM HOLE DISPLACEMENT	: N 43.49 m W 47.77 m			
DATE	: FEBRUARY 24, 2004	TARGET DISPLACEMENT	: N 0.00 m E 0.00 m			
STATION NUMBER	MEASURED DEPTH (M)	INCLINATION ANGLE (DD)	AZIMUTH (DD)	VERTICAL DEPTH (M)	NORTH +ve (M)	EAST +ve (M)
TIE	0.00	0.00	0.00	0.00	0.00	0.00
1	2441.63	1.11	300.72	2441.48	12.08	-20.33
2	2460.82	2.00	325.20	2460.66	12.45	-20.68
3	2489.71	3.10	315.00	2489.52	13.46	-21.52
4	2518.48	3.50	303.90	2518.24	14.42	-22.80
5	2547.20	3.80	300.30	2546.91	15.43	-24.35
6	2575.97	4.70	307.60	2575.60	16.63	-26.11
7	2604.35	6.20	313.00	2603.85	18.38	-28.15
8	2633.42	7.40	313.20	2632.71	20.73	-30.66
9	2662.38	7.90	313.00	2661.41	23.37	-33.48
10	2691.22	8.80	311.30	2689.95	26.18	-36.58
11	2714.15	8.60	313.30	2712.61	28.51	-39.15
12	2747.66	10.10	338.60	2745.69	32.97	-42.05
13	2776.48	10.50	335.50	2774.05	37.71	-44.06
14	2798.24	11.40	324.00	2795.41	41.25	-46.14
15	2812.24	11.40	324.00	2809.14	43.49	-47.77

TVD - 3D PLOT



Company - ANADARKO CANADA CORPORATION
 Well - ANADARKO ARROWHEAD RIVER K-35
 Location - K-35
 Date - FEBRUARY 24, 2004

Drilled Depth - 2812.24
 True Vertical Depth - 2809.14
 Bottom Hole Displacement - N 43.49 m W 47.77 m
 Target Displacement - N 0.00 m E 0.00 m

02/24/04 15:02 0.0 M Ver 30725245 Job 30017929

Caliper Before Survey Calibration

Tool Type: CAL-FA Serial No: CALF118

	Measured			Calibrated		
	Small	Large	Units	Small	Large	Units
MCLO	766.2	1399.2	mm	177.8	355.6	mm

02/24/04 15:30 0.0 M Ver 30725245 Job 30017929

Gamma Ray Before Survey Calibration

Tool Type: UGR-JA Serial No: UGRJ211
 Calibrator No: RA-20S-335

Background	Calibrator	Standard	Units
118.2	739.0	140.0	API

Delta Counts Per Sec: 620.8 CPS/API = 4.434

02/15/04 15:42 0.0 M Ver 30725245 Job shop

Compensated Neutron Shop Calibration

Tool Type: CNT-S Serial No: CNTS175
 Verifier No: MSV-089 Source No: 6036-NE
 Tank Type: NCT-AA

	Low Porosity	Med Porosity	High Porosity	Units
Tank Ratio:	0.713	1.457	2.294	SS/LS
Tank Porosity:	-0.76	10.25	25.73	LM-PU
LS Detector:	1395.1	331.3	136.6	CPS
SS Detector:	968.2	484.4	320.9	CPS
Tool Ratio:	0.694	1.462	2.350	SS/LS
Tool Porosity:	-0.99	10.25	26.72	LM-PU

Tool Constant: 0.996
 Surface Temperature: 21 DegC

SS Detector	LS Detector	Ratio	Porosity
287.6 CPS	177.9 CPS	1.617	12.95

02/24/04 15:26 0.0 M Ver 30725245 Job 30017929

Compensated Neutron Before Survey Calibration

Tool Type: CNT-S Serial No: CNTS175
 Verifier No: MSV-089 Source No: 6036-NE

	Verifier Check	Units
LS Detector:	180.2	CPS
SS Detector:	290.1	CPS
Tool Ratio:	1.610	SS/LS
Tool Porosity:	12.82	LM-PU

Tool Constant: 0.996

02/25/04 01:33 0.0 M Ver 30725245 Job 30017929

Compensated Neutron After Survey Calibration

Tool Type: CNT-S Serial No: CNTS175
 Verifier No: MSV-089 Source No: 6036-NE

	Before	After	Units
LS Detector:	180.2	179.9	CPS
SS Detector:	290.1	289.2	CPS
Tool Ratio:	1.610	1.608	SS/LS
Tool Porosity:	12.82	12.78	LM-PU

Tool Constant: 0.996

02/19/04 16:19 0.0 M Ver 40211263 Job shop

Spectral Pe Density Shop Calibration

Tool Type: SPS-AB Sonde No: SPSB209
 Firmware Ver: 1.0 Electronics No: SPCB209
 Aluminum Blk No: ALBA110 Source No: 2068-GW
 Magnesium Blk No: MGBA110

	Bkg	Al	Al+Fe	Mg	Units
Cs Pk	109.94	109.87	109.79	109.67	Ch
Gain	0.166	0.166	0.166	0.165	Ch/Kev
Tng Pk	11.61				
Off	0.164				
Res	9.53	9.63	9.49	9.64	%
LLPE	227	1286	844	8584	cps
LUPE	123	953	731	5901	cps
LSUC	717	977	878	5639	cps
LCMP	1439	3715	3256	21897	cps
Cs Pk	109.75	109.65	109.72	109.68	Ch
Gain	0.166	0.165	0.166	0.165	Ch/Kev
Tng Pk	11.55				
Off	0.126				
Res	9.02	9.01	8.92	8.95	%
SLPE	230	2677	1816	4081	cps
SUPE	123	1923	1459	2812	cps
SSUC	665	4562	4097	6433	cps
SCMP	1389	10859	9563	16101	cps
Acc	250	250	250	250	Secs

Density Calibration

Spine Angle = Fresh 77.48 Barite 78.91
 Spine Length = 200.45 197.05

Pe Calibration

LS Slope = Fresh 1.7761 Barite 0.4070
 LS Intercept = -0.2512 -0.1721

02/24/04 15:20 0.0 M Ver 30725245 Job 30017929

Spectral Pe Density Before Survey Tool Check

Tool Type: SPS-AB Sonde No: SPSB209
 Firmware Ver: 1.0 Electronics No: SPCB209
 Aluminum Blk No: ALBA110 Source No: 2068-GW
 Magnesium Blk No: MGBA110

	Shop	Before	Units
Cs Pk	109.94	110.01	Ch
Gain	0.166	0.166	Ch/Kev
Tng Pk	11.61	11.59	Ch
Off	0.164	0.165	Ch
Res	9.53	9.54	%
LLPE	227	228	
LUPE	123	125	
LSUC	717	720	
LCMP	1439	1442	
Cs Pk	109.75	109.82	Ch
Gain	0.166	0.166	Ch/Kev
Tng Pk	11.55	11.59	Ch
Off	0.126	0.142	Ch
Res	9.02	9.09	%
SLPE	230	231	
SUPE	123	125	
SSUC	665	670	
SCMP	1389	1393	
Acc	250	100	Secs

02/25/04	01:30	0.0 M	Ver 30725245	Job 30017929
Spectral Pe Density After Survey Tool Check				
Tool Type: SPS-AB		Sonde No: SPSB209		
Firmware Ver: . 0		Electronics No: SPCB209		
Aluminum Blk No: ALBA110		Source No: 2068-GM		
		Magnesium Blk No: MGBA110		

	Shop	Before	After	Units
Cs Pk	109.94	110.01	109.94	Ch
Gain	0.166	0.166	0.166	Ch/Kev
Tng Pk	11.61	11.59	11.61	Ch
Off	0.164	0.165	0.165	Ch
Res	9.53	9.54	9.55	%
LLPE	227	228	230	cps
LUPE	123	125	127	cps
LSUC	717	720	721	cps
LCMP	1439	1442	1445	cps
Cs Pk	109.75	109.82	109.78	Ch
Gain	0.166	0.166	0.166	Ch/Kev
Tng Pk	11.55	11.59	11.56	Ch
Off	0.126	0.142	0.134	Ch
Res	9.02	9.09	9.08	%
SLPE	230	231	230	cps
SUPE	123	125	125	cps
SSUC	665	670	667	cps
SCMP	1389	1393	1391	cps
Acc	250	100	100	Secs

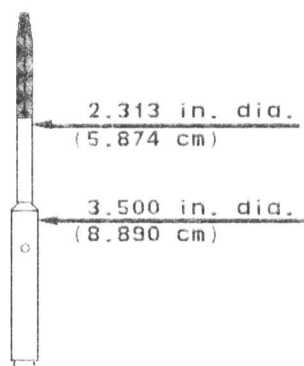
02/24/04	15:02	0.0 M	Ver 30725245	Job 30017929
Caliper Before Survey Calibration				
Tool Type: SPD-CL		Serial No:SPSB209		
	Measured		Calibrated	
	Small	Large	Small	Large
MCL2	1391.4	2818.9	177.8	355.6

01/28/04	17:11	0.0 M	Ver 40109257S	Job SHOP
Spectral Pe Density(2) Shop Calibration				
Tool Type: SPS-AB		Sonde No: SPSB118		
Firmware Ver: . 0		Electronics No: SPCB118		
Aluminum Blk No: ALBA110		Source No: 1180-GM		
		Magnesium Blk No: MGBA110		
	Bkg	Al	Al+Fe	Mg
Cs Pk	109.91	110.51	110.02	109.66
Gain	0.166	0.167	0.167	0.166
Tng Pk	11.17			
Off	-0.314			
Res	9.26	9.20	9.04	9.24
LLPE	174	1364	892	8969
LUPE	95	996	766	6033
LSUC	545	918	830	5248
LCMP	1106	3589	3157	20943
Cs Pk	110.19	110.22	110.06	110.12
Gain	0.166	0.166	0.166	0.166
Tng Pk	11.50			
Off	0.021			
Res	9.05	9.10	9.10	8.89
SLPE	170	2464	1698	3717
SUPE	93	1791	1381	2610
SSUC	484	4189	3802	5871
SCMP	1015	10104	8967	14905
Acc	250	250	250	250
				Secs
Density Calibration				
		Fresh	Barite	
Spine Angle =		77.57	79.04	
Spine Length =		199.25	195.89	
Pe Calibration				
		Fresh	Barite	
LS Slope =		1.5869	0.3530	
LS Intercept =		-0.2395	-0.1609	

02/24/04	15:10	0.0 M	Ver 30725245	Job 30017929
Spectral Pe Density(2) Before Survey Tool Check				
Tool Type: SPS-AB		Sonde No: SPSB118		
Firmware Ver: . 0		Electronics No: SPCB118		
Aluminum Blk No: ALBA110		Source No: 1180-GM		
		Magnesium Blk No: MGBA110		
	Shop	Before	Units	
Cs Pk	109.91	109.85	Ch	
Gain	0.166	0.166	Ch/Kev	
Tng Pk	11.17	11.25	Ch	
Off	-0.314	-0.267	Ch	
Res	9.26	9.28	%	
LLPE	174	175		
LUPE	95	96		
LSUC	545	544		
LCMP	1106	1104		
Cs Pk	110.19	109.97	Ch	
Gain	0.166	0.166	Ch/Kev	
Tng Pk	11.50	11.50	Ch	
Off	0.021	0.012	Ch	
Res	9.05	9.09	%	
SLPE	170	171		
SUPE	93	92		
SSUC	484	487		
SCMP	1015	1018		
Acc	250	100	Secs	

02/25/04	01:23	0.0 M	Ver 30725245	Job 30017929
Spectral Pe Density(2) After Survey Tool Check				
Tool Type: SPS-AB		Sonde No: SPSB118		
Firmware Ver: . 0		Electronics No: SPCB118		
Aluminum Blk No: ALBA110		Source No: 1180-GM		
		Magnesium Blk No: MGBA110		
	Shop	Before	After	Units
Cs Pk	109.91	109.85	109.80	Ch
Gain	0.166	0.166	0.166	Ch/Kev
Tng Pk	11.17	11.25	11.19	Ch
Off	-0.314	-0.267	-0.284	Ch
Res	9.26	9.28	9.30	%
LLPE	174	175	176	cps
LUPE	95	96	97	cps
LSUC	545	544	547	cps
LCMP	1106	1104	1107	cps
Cs Pk	110.19	109.97	109.89	Ch
Gain	0.166	0.166	0.166	Ch/Kev
Tng Pk	11.50	11.50	11.48	Ch
Off	0.021	0.012	0.035	Ch
Res	9.05	9.09	9.10	%
SLPE	170	171	172	cps
SUPE	93	92	95	cps
SSUC	484	487	490	cps
SCMP	1015	1018	1020	cps
Acc	250	100	100	Secs

02/24/04	15:02	0.0 M	Ver 30725245	Job 30017929
Caliper Before Survey Calibration				
Tool Type: SPD-CL		Serial No:SPSB118		
	Measured		Calibrated	
	Small	Large	Small	Large
MCL3	1812.3	3214.9	177.8	355.6

O.H. Adaptor Head		
Weight	18.0 kg	
Length	0.74 m	
Max. Diameter	8.9 cm	
Total Stack Weight	655.9 kg	in air
Total Stack Length	29.11 m	
		

Crossover

Weight 6.8 kg
Length 0.27 m

Wireline Communications Cartridge

Weight 53.6 kg
Length 2.31 m
Max. Diameter 8.6 cm

2-Arm Caliper

Weight 79.4 kg
Length 2.40 m
Max. Diameter 10.2 cm

Universal GR

Weight 37.3 kg
Length 1.40 m
Max. Diameter 8.6 cm

Mandrel Neutron

Weight 45.4 kg
Length 2.07 m
Max. Diameter 8.6 cm

Mass Isolator

Weight 19.0 kg
Length 0.81 m
Max. Diameter 8.6 cm

SPeD 400 Electronics

Weight 56.7 kg
Length 2.92 m
Max. Diameter 8.6 cm

SPeD 400 Pad Section

Weight 141.5 kg
Length 3.38 m
Max. Diameter 11.4 cm

Dual Laterolog

Weight _____
Length _____
Max. Diameter _____

SPeD 400 Electronics

Weight 56.7 kg
Length 2.92 m
Max. Diameter 8.6 cm

SPeD 400 Pad Section

Weight 141.5 kg
Length 3.38 m
Max. Diameter 11.4 cm

Caliper 23.86 m

GR 22.99 m

LS cps
PHIN 20.66 m
SS cps

Caliper 0.66 m

LLD/LLS

Caliper 13.45 m

3.375 in. dia.
(8.573 cm)

3.500 in. dia.
(8.900 cm)

4.00 in. dia.
(10.16 cm)

3.375 in. dia.
(8.573 cm)

3.375 in. dia.
(8.573 cm)

3.375 in. dia.
(8.573 cm)

3.375 in. dia.
(8.573 cm)

3.67 in. dia.
(9.32 cm)

4.19 in. dia.
(10.64 cm)

LS cps/PE

PHID 0.68 m

SS cps/PE

3.500 in. dia.
(8.890 cm)

3.500 in. dia.
(8.890 cm)

3.375 in. dia.
(8.573 cm)

3.67 in. dia.
(9.32 cm)

4.19 in. dia.
(10.64 cm)

LS cps/PE

PHID 13.47 m

SS cps/PE

Tool Zero



COMPANY ANADARKO CANADA CORPORATION

WELL ANADARKO ARROWHEAD RIVER K-35

FIELD ARROWHEAD PROVINCE N.W.T.

PRECISION

Wireline Technologies