



BOREHOLE COMPENSATION
SONIC LOG

True Vertical Depth

COMPANY PARAMOUNT RESOURCES LTD.

WELL PARA ET CAMERON 2M-73

FIELD CAMERON

PROVINCE NORTHWEST TERRITORIES

LOCATION M-73

LICENCE 2025

Perm. Datum GROUND LEVEL 512.771.80 m

LOG measured from 15. 4.25 m above

Permanent Datum.

DATE 26-MAR-2005

RUN NO. ONE

First Reading 1455.8 m

Last Reading 428.5 m

Meters Meas. 1067.3 m

Depth Reached 1521.8 m

CSG Logger 1522.0 m

CSG Driller 428.5 m

Fluid Type GEL CHEMICAL

Dens. @ Visc. 1130

MUD PH 7.4

MUD MOTOR LOSS 1.3

MUD RES. @ BHT 0.3

RMC 0.3

Rmf @ BHT 0.3

Bit Size 3.5

SOCCING 3.5

Operating 3.5

Unit # 349

Location GRANDE PRAIRIE OH

Recorded By K. POSTON

Witnessed By P. DANG

All interpretations of log data are opinions based on inferences from electrical or other measurements. We do not warrant the accuracy or correctness of any interpretation or recommendation or damages or expenses incurred made by any of our employees or agents.

REMARKS		Rig: PD #247		Service Order # 4111419	
Drilling Stopped 09:30/ 26 Circulation Stopped 21:30/ 26 Tool on Bottom 02:45/ 27 BHT 58 °C					
- STI-SP/SPed/CNT/UGR/MRT/HBC/DAC LOGGED IN COMBINATION					
- MAXIMUM DEVIATION OF 27.4° @ 915m, WITH A KICKOFF OF 470m					
- CALIPERS HAD TO BE CLOSED BRIEFLY ON THE MAIN PASS FOR 1.5m @ 1516m Prints: 1					
- ORINATION WAS DIFFICULT TO MAINTAIN THROUGH THE DEVIATED HOLE, SEVERAL PASSES WERE ATTEMPTED TO CORRECT					
CHANGES IN MUD TYPE OR NEW SAMPLE			SCALE CHANGES		
Date	Sample No.		Type Log	Interval	Scale
Depth - Driller					
Type Fluid in Hole					
Dens.	Visc.				
pH	Water Loss				
Source of Sample			EQUIPMENT DATA		
Rm @ Meas. Temp.	(@ °C		Run No.	Tool Type	Tool No.
Rmf @ Meas. Temp.	(@ °C				
Rmc @ Meas. Temp.	(@ °C		ONE	HBC-AA	151
Source Rmf	Rmc			UGR-JB	191
Rm @ BHT	(@ °C			CAL-FA	131
Rmf @ BHT	(@ °C				
Rmc @ BHT	(@ °C				

REMARKS

MAIN PASS
1:600 SCALE
300-100 usec/m
TRUE VERTICAL DEPTH

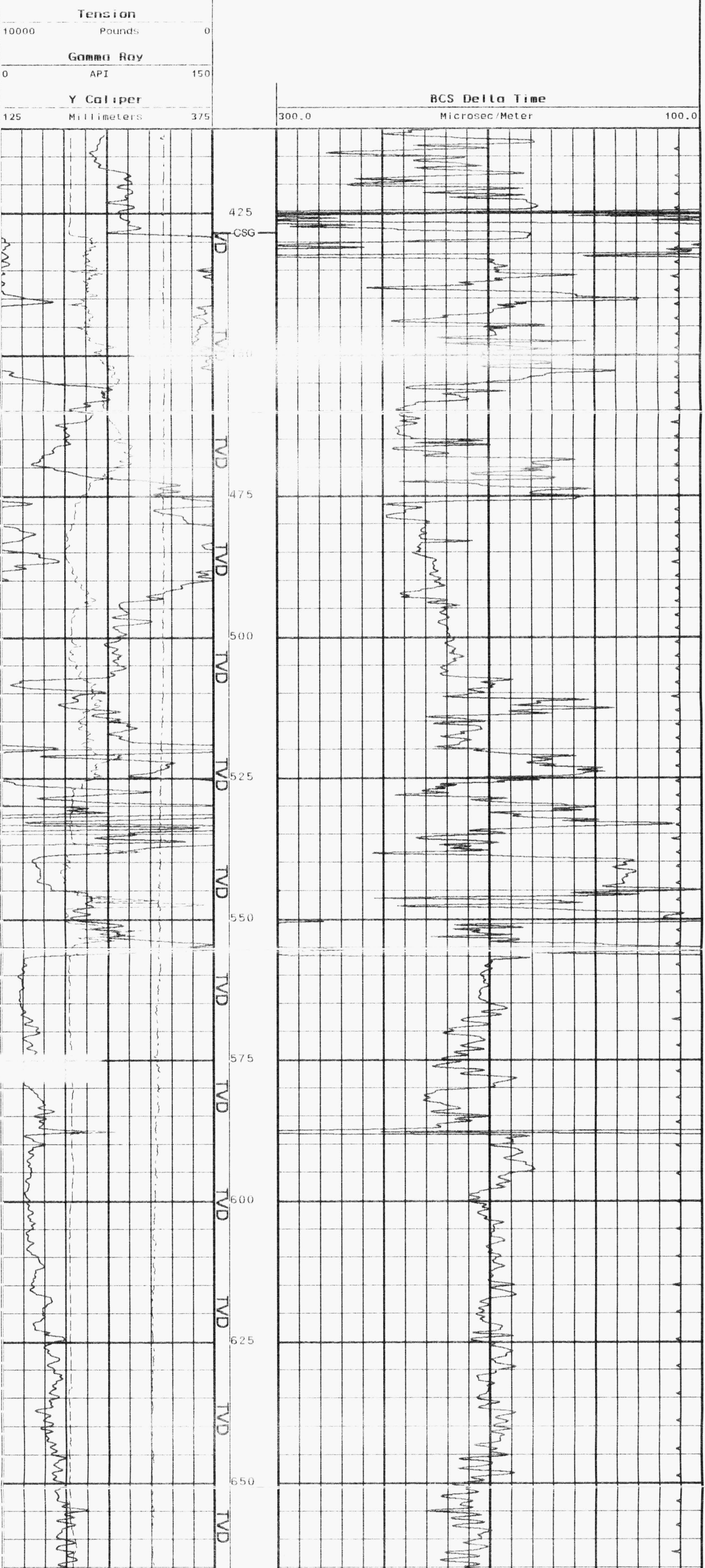
DEPTH SCALE: 1:600

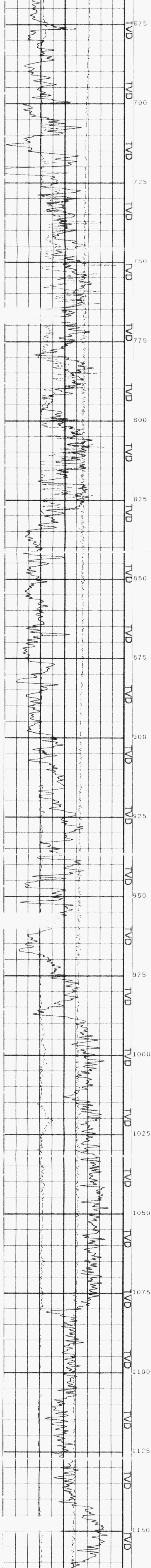
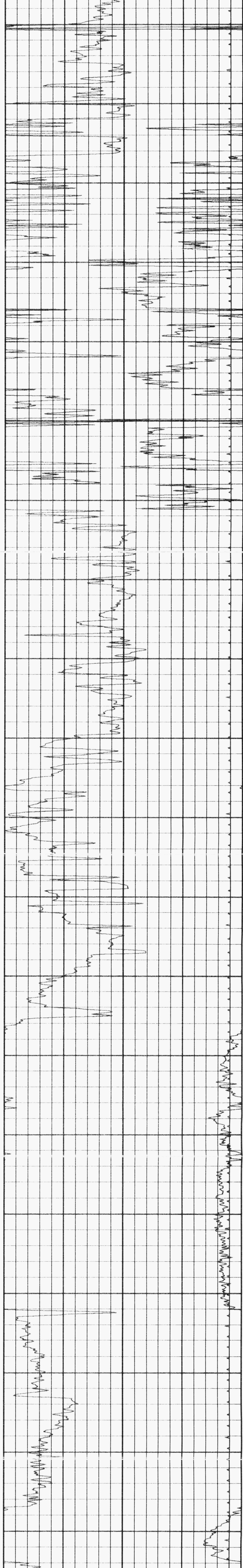
VERSION: 2005.02.23.795

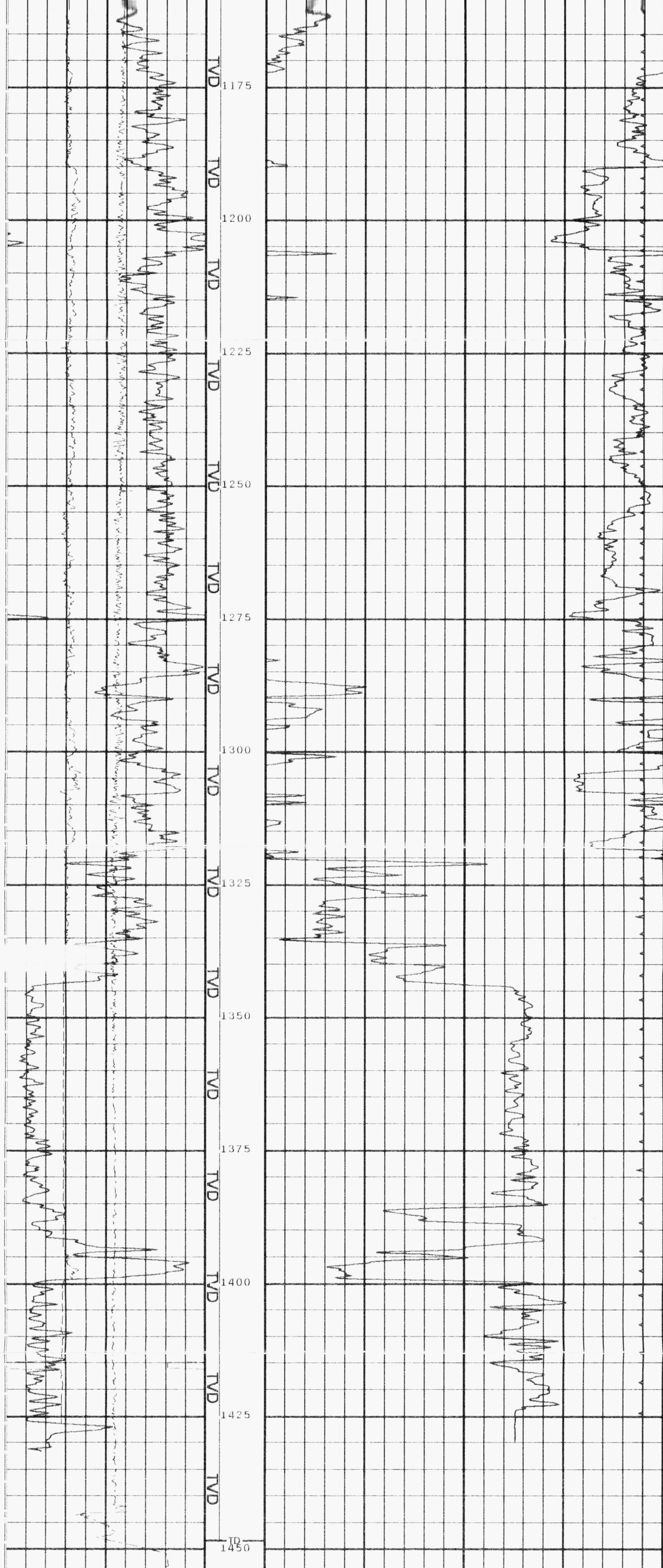
MAIN PASS TVD

4111419 STIMPTVD

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







Y Caliper		BCS Delta Time	
125	Millimeters	375	
0		300.0	
Gamma Ray		Microsec/Meter	
API		100.0	
150			
Tension			
10000			
Pounds			
0			

START DEPTH: 1454.1 DIRECTION: UP DATE: 03/27/2005 TIME: 06:59 MODE: TRACE PLAYBACK
4111419 STIMPTVD

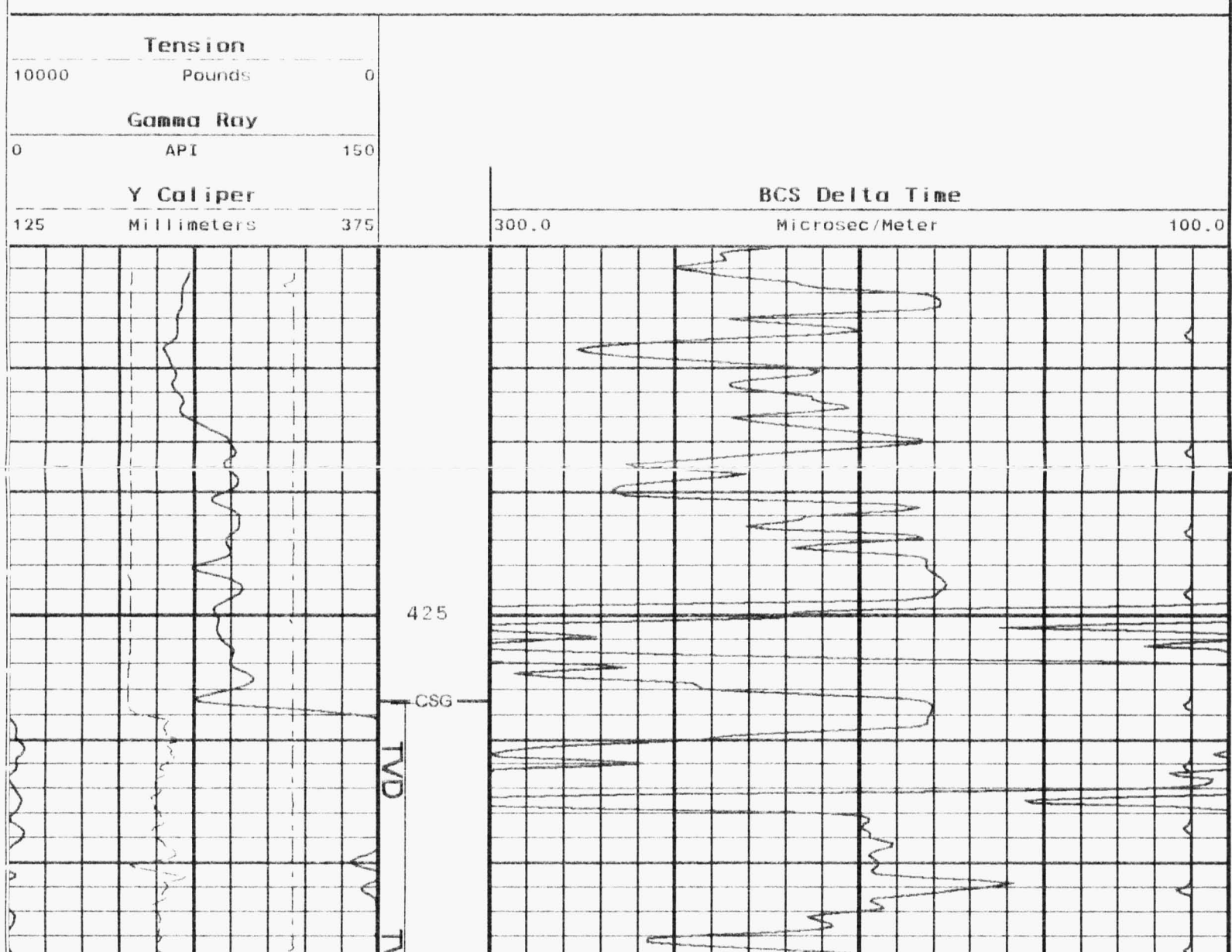
MAIN PASS TVD
DEPTH SCALE: 1:600 VERSION: 2005.02.23.795

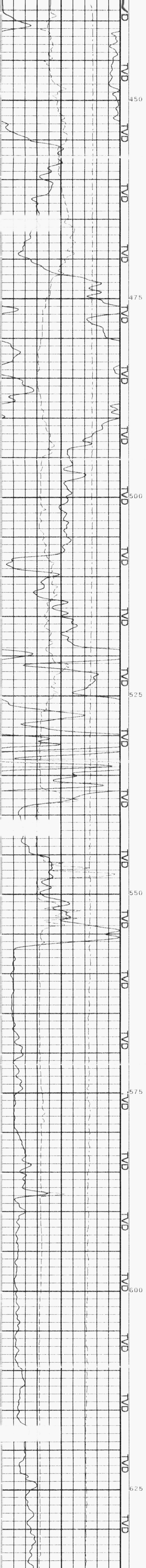
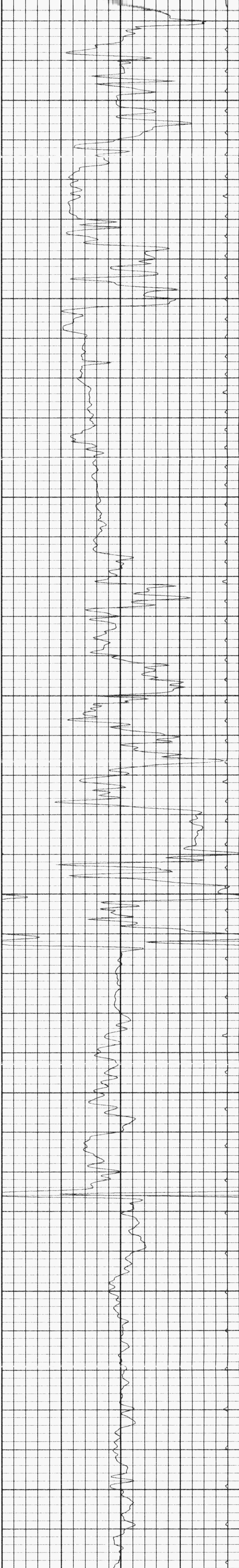
SYSTEM CONSTANTS			
NAME	DESCRIPTION	VALUE	UNITS
TDL	TD Logger	1448.60	Meters
BS	Bit Size	200.0	Millimeters
BHT	Bottom Hole Temp	58.0	DegreesCentigrade

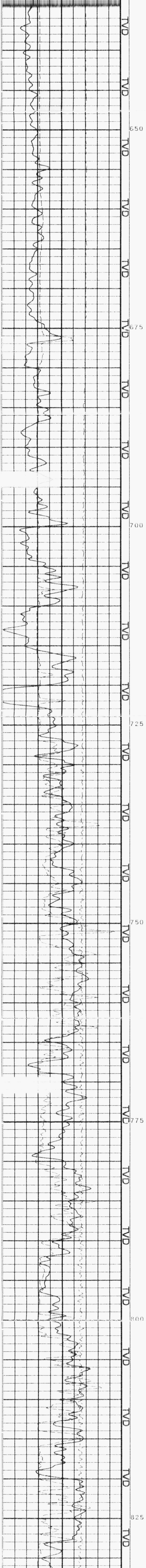
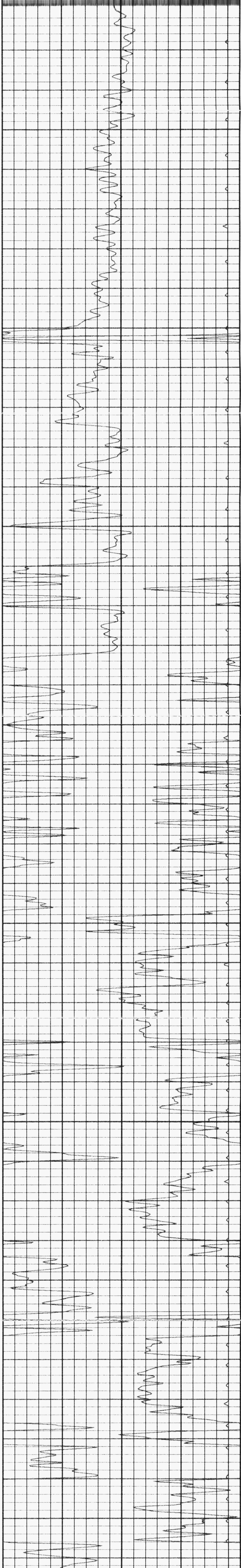
REMARKS
MAIN PASS
1:240 SCALE
300-100 usec/m
TRUE VERTICAL DEPTH

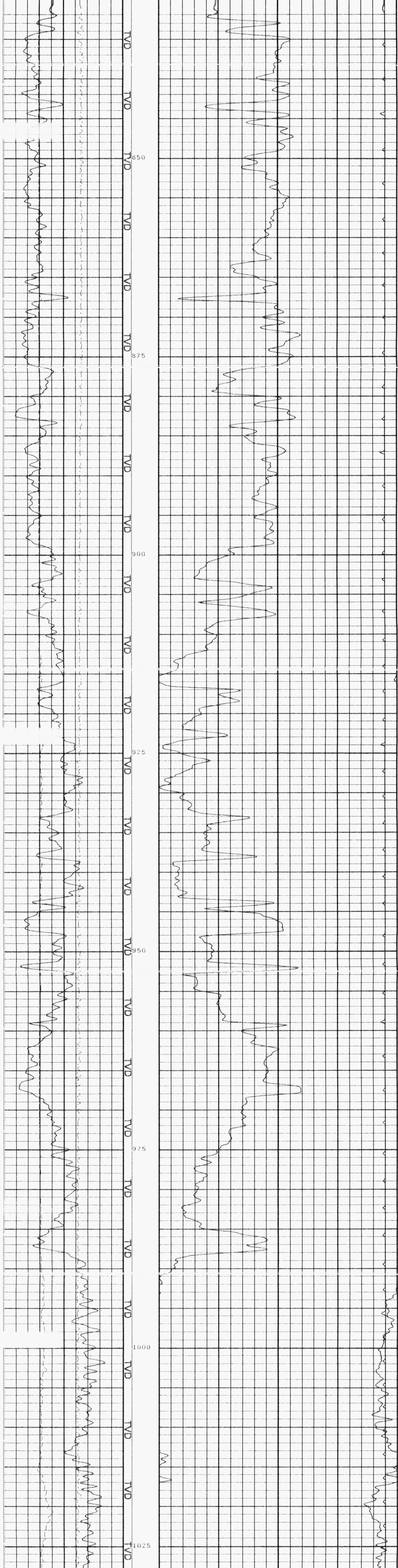
DEPTH SCALE: 1:240 VERSION: 2005.02.23.795
MAIN PASS TVD

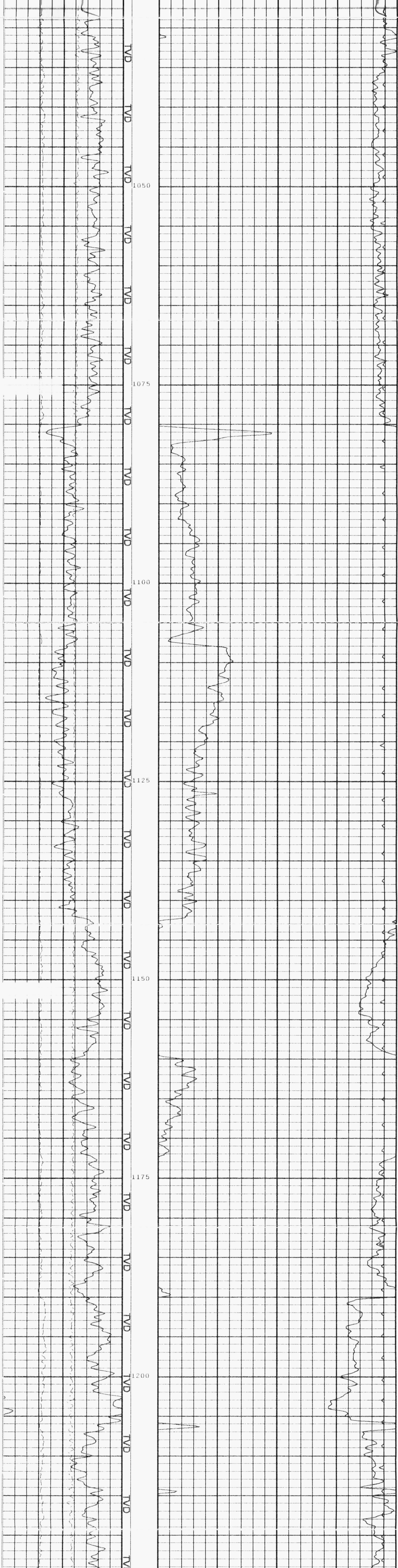
4111419 STIMPTVD
FINISH DEPTH: 0.0 Meters DIRECTION: UP DATE: TIME: MODE: TRACE PLAYBACK

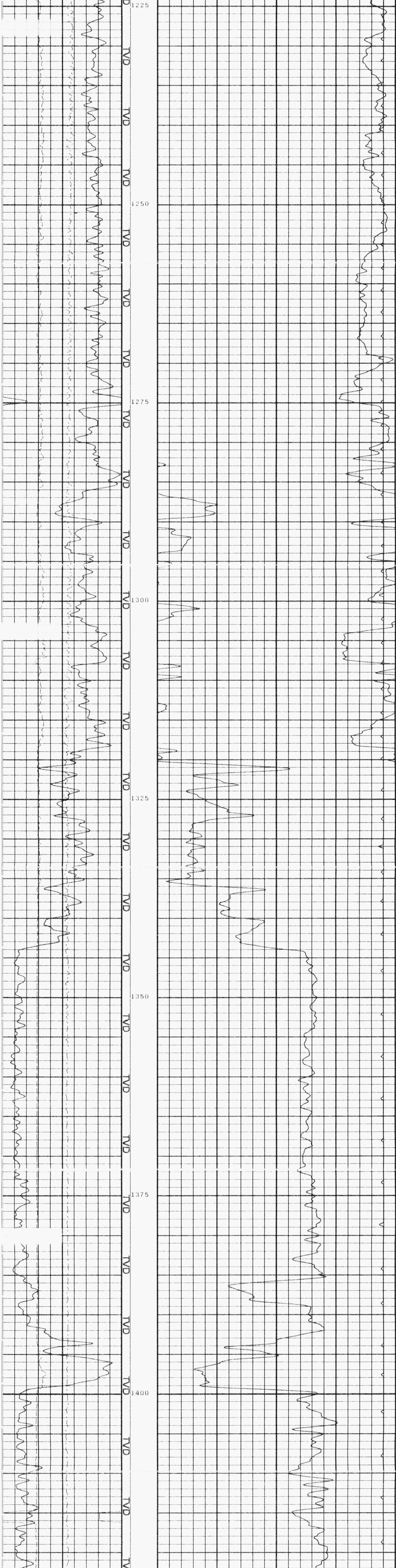


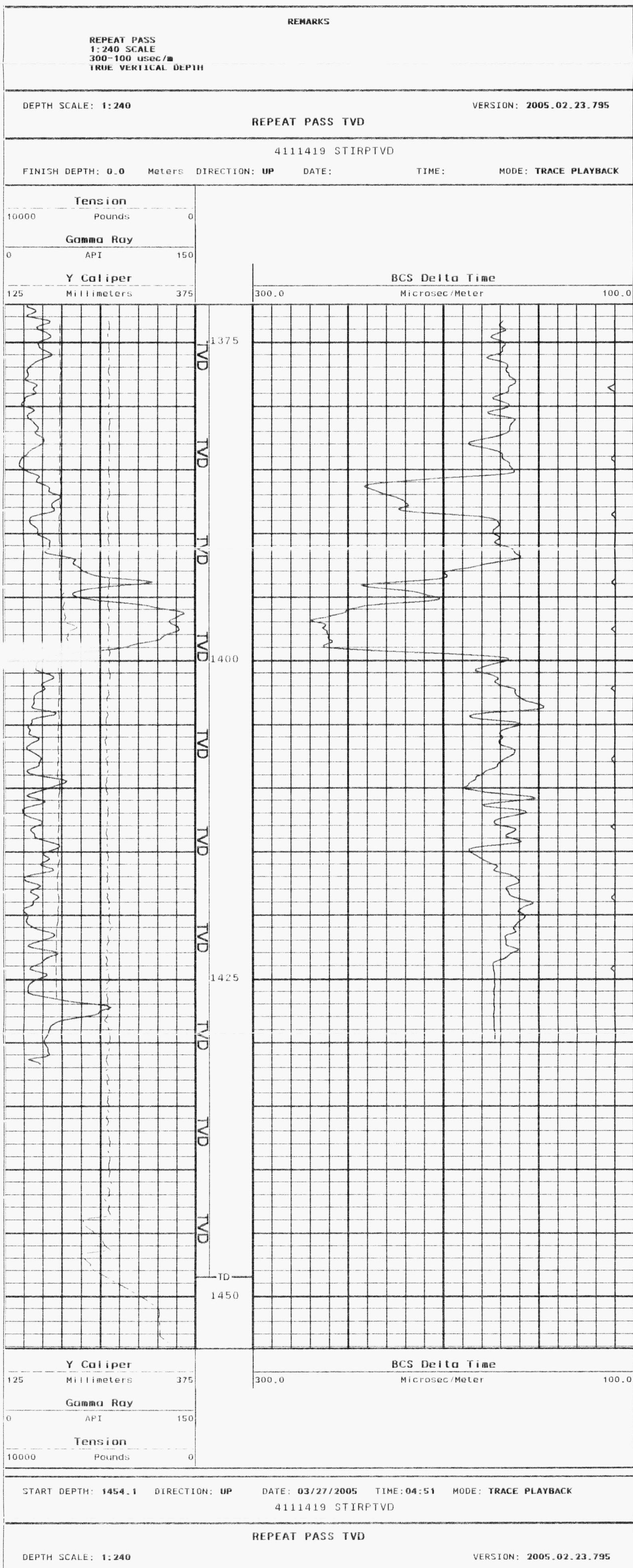
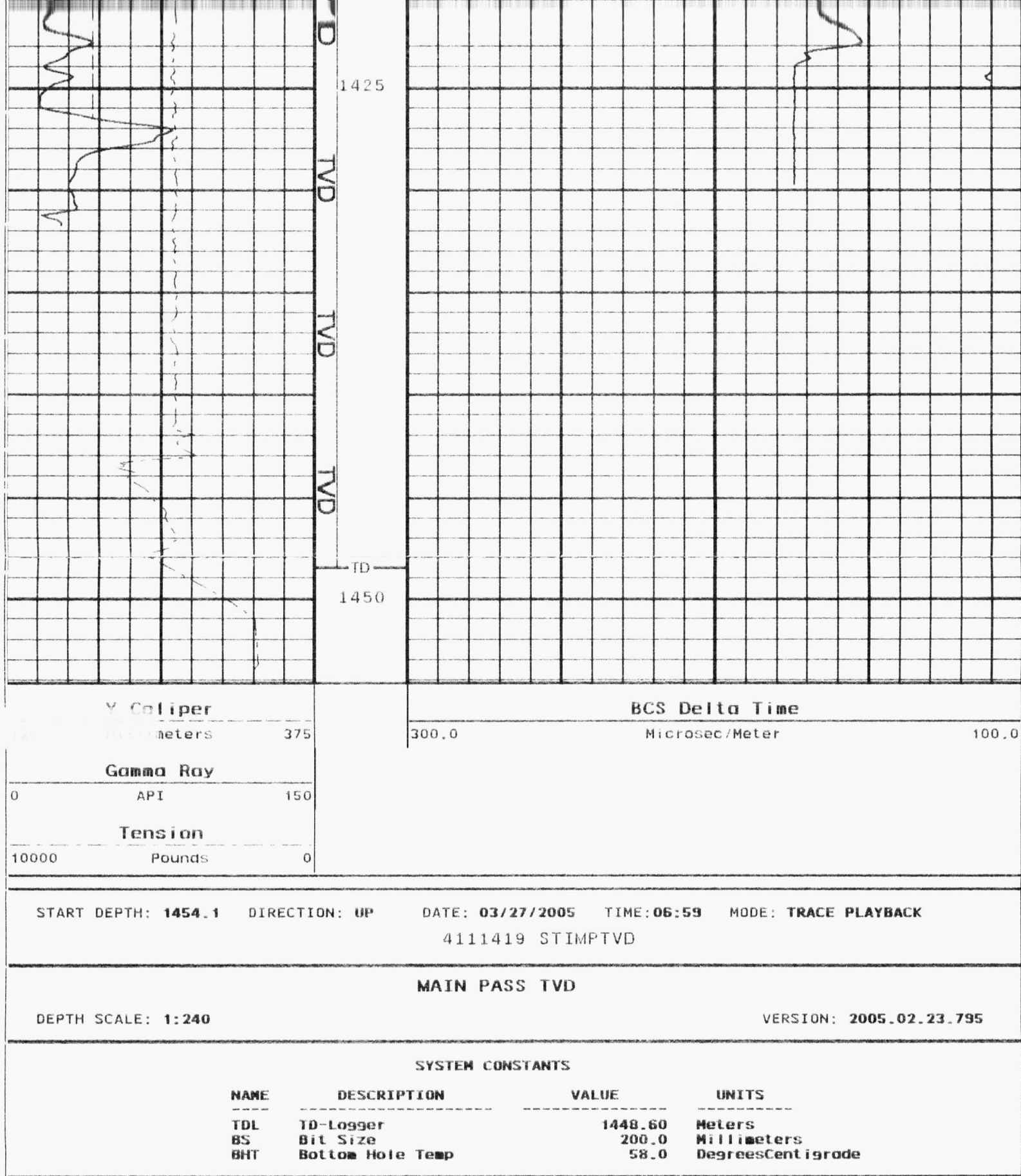








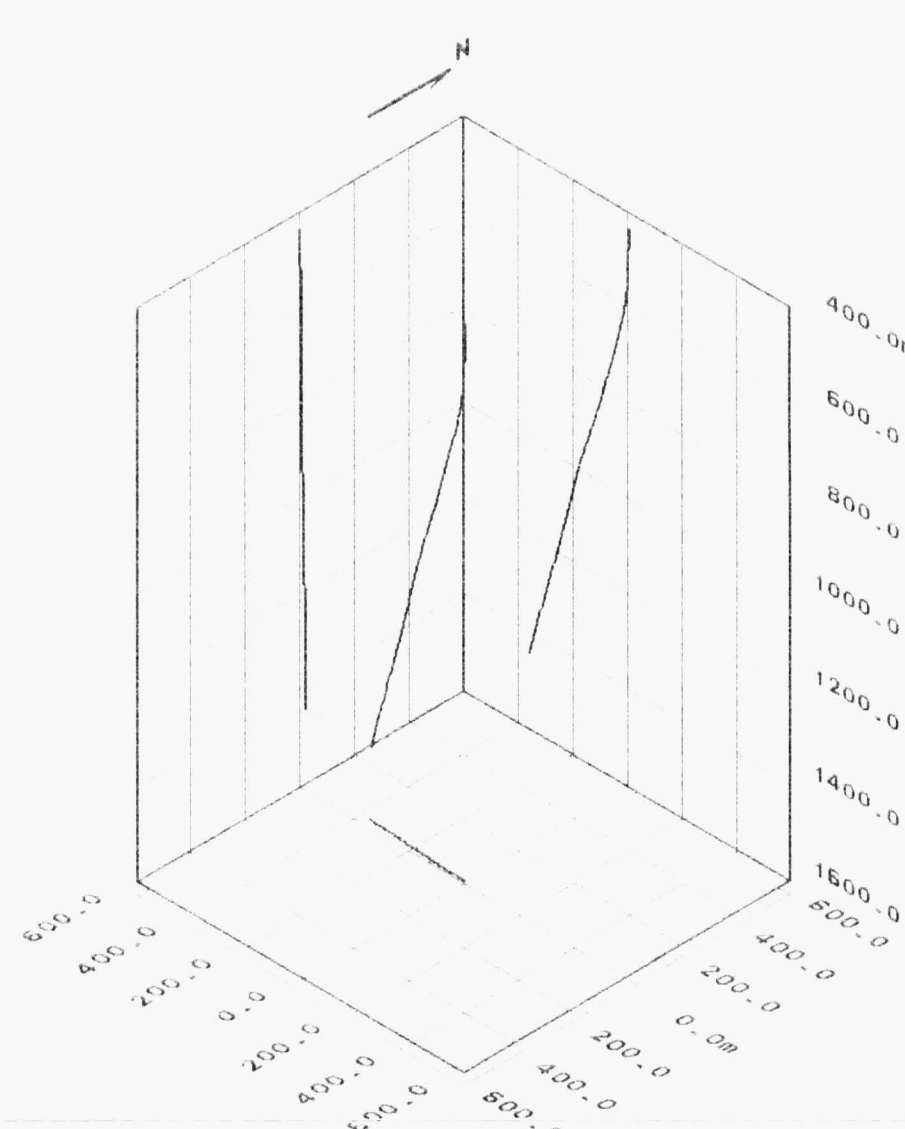




TVD CALCULATION SUMMARY						
=====						
CALCULATION METHOD : Minimum Curvature				VERSION : 1.0		
TVD DATA FILE : /u/os9-port/cs400/8000/4111419/tvd.tvdb						
COMPANY	:	PARAMOUNT RESOURCES LTD.	DRILLED DEPTH	:	1522.00 m	
WELL	:	PARA ET AL CAMERON 2M-73	TRUE VERTICAL DEPTH	:	1448.82 m	
LOCATION	:	M-73	BOTTOM HOLE DISPLACEMENT	:	N 21.57 m W 369.23 m	
DATE	:	26-MAR-2005	TARGET DISPLACEMENT	:	N 0.00 m E 0.00 m	
STATION	MEASURED	INCLINATION	AZIMUTH	VERTICAL	NORTH	EAST

NUMBER	DEPTH (M)	INC. ANGLE (DD)	FLON AZIMUTH (DD)	DEPTH (M)	+ve (M)	+ve (M)
TIE	0.00	0.00	0.00	0.00	0.00	0.00
1	435.44	1.13	72.93	435.41	1.26	4.10
2	445.04	1.00	75.31	445.01	1.31	4.28
3	454.70	0.56	29.81	454.67	1.37	4.38
4	464.11	1.56	313.56	464.08	1.50	4.31
5	473.64	3.31	302.56	473.60	1.74	3.99
6	483.32	4.75	294.18	483.25	2.05	3.38
7	492.68	5.94	293.31	492.57	2.40	2.59
8	502.48	6.88	295.31	502.31	2.85	1.59
9	512.19	7.69	295.06	511.94	3.38	0.48
10	521.60	8.31	290.06	521.26	3.88	-0.73
11	531.35	9.00	281.56	530.90	4.27	-2.14
12	541.02	10.25	276.81	540.44	4.53	-3.74
13	550.70	12.00	276.56	549.93	4.74	-5.59
14	560.41	13.31	276.68	559.41	4.99	-7.71
15	570.08	13.75	276.16	568.61	5.24	-9.95
16	579.68	13.88	275.06	578.13	5.47	-12.24
17	589.08	13.81	273.68	587.26	5.64	-14.48
18	598.74	13.81	271.81	596.64	5.75	-16.78
19	608.43	14.13	269.68	606.04	5.78	-19.12
20	617.91	14.69	268.06	615.22	5.73	-21.48
21	627.56	15.25	265.93	624.55	5.60	-23.97
22	637.29	16.13	264.06	633.91	5.37	-26.59
23	646.89	17.44	263.93	643.11	5.08	-29.35
24	656.34	19.06	264.81	652.08	4.79	-32.29
25	665.94	20.38	266.06	661.12	4.53	-35.52
26	675.59	21.19	268.06	670.14	4.36	-38.94
27	684.84	22.06	269.18	678.74	4.28	-42.35
28	694.31	22.50	269.81	687.50	4.24	-45.94
29	704.05	22.38	269.81	696.50	4.23	-49.65
30	713.59	22.44	270.56	705.32	4.24	-53.29
31	723.21	22.50	270.93	714.21	4.29	-56.97
32	732.84	22.63	271.18	723.10	4.36	-60.66
33	742.50	22.44	272.43	732.03	4.48	-64.36
34	752.10	22.75	274.56	740.89	4.70	-68.04
35	761.62	23.31	275.81	749.65	5.04	-71.75
36	771.28	23.81	275.93	758.51	5.43	-75.59
37	780.89	23.69	275.68	767.30	5.83	-79.44
38	790.50	23.06	274.81	776.12	6.17	-83.24
39	800.23	22.31	273.56	785.10	6.45	-86.98
40	809.87	22.00	271.81	794.03	6.62	-90.61
41	819.46	22.25	271.31	802.91	6.72	-94.22
42	829.16	22.69	271.18	811.88	6.80	-97.93
43	838.92	22.56	270.81	820.89	6.86	-101.68
44	848.43	22.63	271.18	829.67	6.93	-105.34
45	858.01	23.94	271.68	838.47	7.02	-109.12
46	867.54	25.06	272.06	847.14	7.15	-113.07
47	877.09	26.00	272.43	855.75	7.31	-117.19
48	886.58	25.88	272.06	864.29	7.48	-121.33
49	896.24	25.81	271.18	872.98	7.59	-125.54
50	905.87	26.31	272.18	881.63	7.72	-129.77
51	915.60	27.38	273.31	890.31	7.93	-134.16
52	925.24	27.13	274.81	898.88	8.24	-138.56
53	934.85	26.81	275.06	907.45	8.62	-142.91
54	944.63	26.38	275.31	916.19	9.01	-147.27
55	953.91	26.06	275.43	924.52	9.40	-151.35
56	963.55	25.81	275.43	933.19	9.80	-155.55
57	973.18	25.38	274.68	941.87	10.16	-159.69
58	982.90	25.00	273.06	950.67	10.44	-163.82
59	992.54	24.88	272.06	959.41	10.62	-167.88
60	1002.19	24.69	271.81	968.17	10.76	-171.92
61	1021.59	23.63	271.81	985.87	11.01	-179.86
62	1031.24	23.06	271.43	994.73	11.12	-183.68
63	1040.86	22.69	271.93	1003.60	11.23	-187.42
64	1050.51	22.44	273.43	1012.51	11.40	-191.12
65	1060.18	22.50	275.56	1021.44	11.69	-194.80
66	1069.80	22.94	276.43	1030.32	12.08	-198.49
67	1079.44	22.19	276.18	1039.22	12.49	-202.17
68	1089.07	21.19	274.56	1048.17	12.82	-205.71
69	1098.79	20.63	273.31	1057.25	13.06	-209.18
70	1108.45	20.19	273.18	1066.30	13.25	-212.54
71	1117.65	19.88	273.93	1074.94	13.44	-215.68
72	1127.32	19.81	274.93	1084.04	13.70	-218.96
73	1136.83	19.88	275.43	1092.98	13.99	-222.17
74	1146.42	20.38	275.68	1101.99	14.31	-225.46
75	1156.05	21.25	275.68	1110.99	14.65	-228.86
76	1165.73	22.44	274.18	1119.97	14.96	-232.45
77	1175.36	22.63	273.56	1128.87	15.20	-236.13
78	1185.05	22.25	273.56	1137.83	15.43	-239.82
79	1194.72	22.50	274.43	1146.77	15.69	-243.50
80	1204.32	22.56	274.43	1155.63	15.98	-247.16
81	1213.93	22.00	275.18	1164.53	16.28	-250.79
82	1223.65	22.50	276.68	1173.52	16.66	-254.46
83	1233.25	22.50	277.43	1182.39	17.11	-258.10
84	1242.89	21.88	276.68	1191.32	17.56	-261.71
85	1252.67	22.56	275.18	1200.37	17.94	-265.39
86	1261.97	23.25	273.18	1208.94	18.20	-269.00
87	1271.56	24.00	271.18	1217.73	18.35	-272.84
88	1281.22	23.94	269.68	1226.55	18.38	-276.77
89	1290.81	23.50	269.56	1235.33	18.35	-280.62
90	1300.51	22.94	269.43	1244.25	18.32	-284.45
91	1310.31	22.81	270.81	1253.28	18.33	-288.26
92	1319.93	22.81	272.68	1262.14	18.44	-291.98
93	1329.74	22.88	273.81	1271.18	18.66	-295.79
94	1339.40	23.31	274.81	1280.07	18.94	-299.57
95	1349.13	23.13	274.18	1289.01	19.24	-303.39
96	1358.78	22.44	273.81	1297.91	19.50	-307.12
97	1368.41	22.00	273.56	1306.82	19.74	-310.75
98	1378.07	21.94	273.06	1315.78	19.95	-314.36
99	1387.71	22.44	272.93	1324.71	20.14	-318.00
100	1397.23	22.81	273.06	1333.50	20.33	-321.65
101	1406.83	23.06	273.18	1342.34	20.53	-325.39
102	1416.46	22.94	272.43	1351.20	20.71	-329.15
103	1426.13	22.94	272.31	1360.11	20.87	-332.91
104	1435.74	22.81	272.43	1368.96	21.03	-336.64
105	1445.41	22.56	272.43	1377.88	21.18	-340.37
106	1455.18	22.38	272.31	1386.91	21.34	-344.10
107	1464.46	22.13	270.93	1395.50	21.44	-347.61
108	1474.16	22.06	270.81	1404.49	21.49	-351.26
109	1483.95	22.19	270.43	1413.56	21.53	-354.95
110	1502.00	22.00	270.06	1430.28	21.56	-361.74
111	1522.00	22.00	270.06	1448.82	21.57	-369.23

TVD - 3D PLOT



Company	-	PARAMOUNT RESOURCES LTD.	Drilled Depth	-	1522.00
Well	-	PARA ET AL CAMERON 2H-73	True Vertical Depth	-	1448.82
Location	-	M-73	Bottom Hole Displacement	-	N 21.57 m W 369.23 m
Date	-	26-MAR-2005	Target Displacement	-	N 0.00 m E 0.00 m

03/26/05 22:51 0.0 M Ver 50223795 Job 4111419

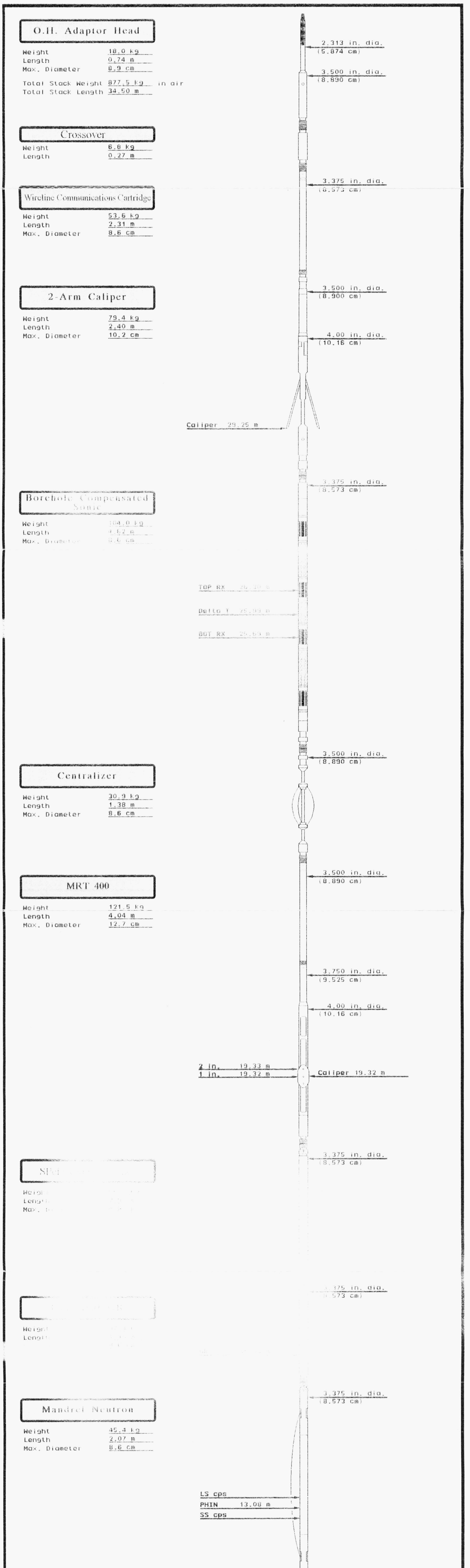
Caliper Before Survey Calibration

Tool Type: CAL-FA Serial No: CALF131

	Measured	Units	Calibrated	Units
Small	Large		Small	Large
WCL0	671.5 1513.4	mm	177.8 355.6	mm

03/26/05	22:56	0.0 M	Ver 50223795	Job 4111419
Gamma Ray Before Survey Calibration				
Tool Type: UGR-JA		Serial No: UGRJ191		
Calibrator No:				
Background	Calibrator	Standard	Units	
120.3	632.1	140.0	API	
Delta Counts Per Sec: 511.8		CPS/API = 3.656		

01/01/88	12:00	0.0 M	Ver	Job
Gamma Ray After Survey Calibration				
Tool Type: UGR-JA		Serial No: UGRJ191		
Calibrator No:				
Background	Calibrator	Standard	Units	
0.0	120.0	140.0	API	
Delta Counts Per Sec: 120.0		CPS/API = 0.857		



SPeD 400 Pad Section

Weight 141.5 kg
 Length 3.38 m
 Max. Diameter 11.4 cm

Caliper 9.81 m

3.67 in. dia.
 (9.32 cm)

4.19 in. dia.
 (10.64 cm)

LS cps/PE

PHID 9.63 m

SS cps/PE

4.00 in. dia.
 (10.16 cm)

3.75 in. dia.
 (9.53 cm)

3.00 in. dia.
 (7.62 cm)

Stand - Off

Weight 5.5 kg
 Length 0.20 m

COMPANY PARAMOUNT RESOURCES LTD.

WELL PARA ET AL CAMERON 2M-73

FIELD CAMERON HILLS PROVINCE N.T.

