

COMPUTALOG

MICRORESISTIVITY LOG

CS400

N.E.B. COPY

PROVINCE	NORTH WEST TERRITORIES
FIELD	CAMERON HILLS
WELL	PARA ET AL CAMERON H-03
COMPANY	PARAMOUNT RESOURCES LTD.
DATE	05-MAR-2002
Run No.	ONE
First Reading	1650.3 m
Last Reading	1200.0 m
Meters Meas.	450.3 m
Depth Reached	1660.7 m
Bot. Driller	1661.0 m
CS9. Logger	423.0 m
CS9. Driller	423.0 m
Fluid Type	GEL CHEMICAL
Dens. & Visc.	1120 75
Mud pH	10.0
Mud Water Loss	9.0
Mud Res. @ BHT	0.5 @ 16 °C
Rmc	0.3 @ 49 °C
Rmf	0.6 @ 16 °C
Rmf @ BHT	0.3 @ 16 °C
Bit Size	222 mm
Spacing	N/A
Operating Time	3.0 hrs.
Unit #	330
Location	EDMONTON
Recorded By	C. HRYNKIV
Witnessed By	D. NORDBY
LOCATION	H-03 60° 10', 117° 30'
Perm. Datum GROUND LEVEL	Elev. 764.50 m
Log measured from KB	4.47 m above
Permanent Datum	ELEV. K.B. 768.97 m
	G.L. 764.50 m
	CBF
Other Services:	SPED/CNT/GR/DAC
STI HRC	

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFULL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES, OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS SET OUT IN OUR CURRENT PRICE SCHEDULE.

REMARKS Rig: PRECISION #117 Service Order # 30010823
Drilling Stopped 12:00/4th Circulation Stopped 18:30/4th Tool on Bottom 02:13/5th BHT 49 °C
SPED/CNT/GR/MRT/DAC LOGGED IN COMBINATION
INCONSISTENCIES BETWEEN REPEAT AND MAIN PASS DUE TO REMOVAL OF FILTER CAKE
AFTER INITIAL PASS. Prints: 2

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		R/n No.	Tool Type	Tool No.
Rmf @ Meas. Temp.	@	°C		ONE	MRT-BA	126126
Rmc @ Meas. Temp.	@	°C		ONE	UGR-JB	193
Source Rmf	Rmc			ONE	CAL-FA	117
Rm @ BHT	@	°C				
Rmf @ BHT	@	°C				
Rmc @ BHT	@	°C				

REMARKS

MUD LOG DOWN
1:600 SCALE

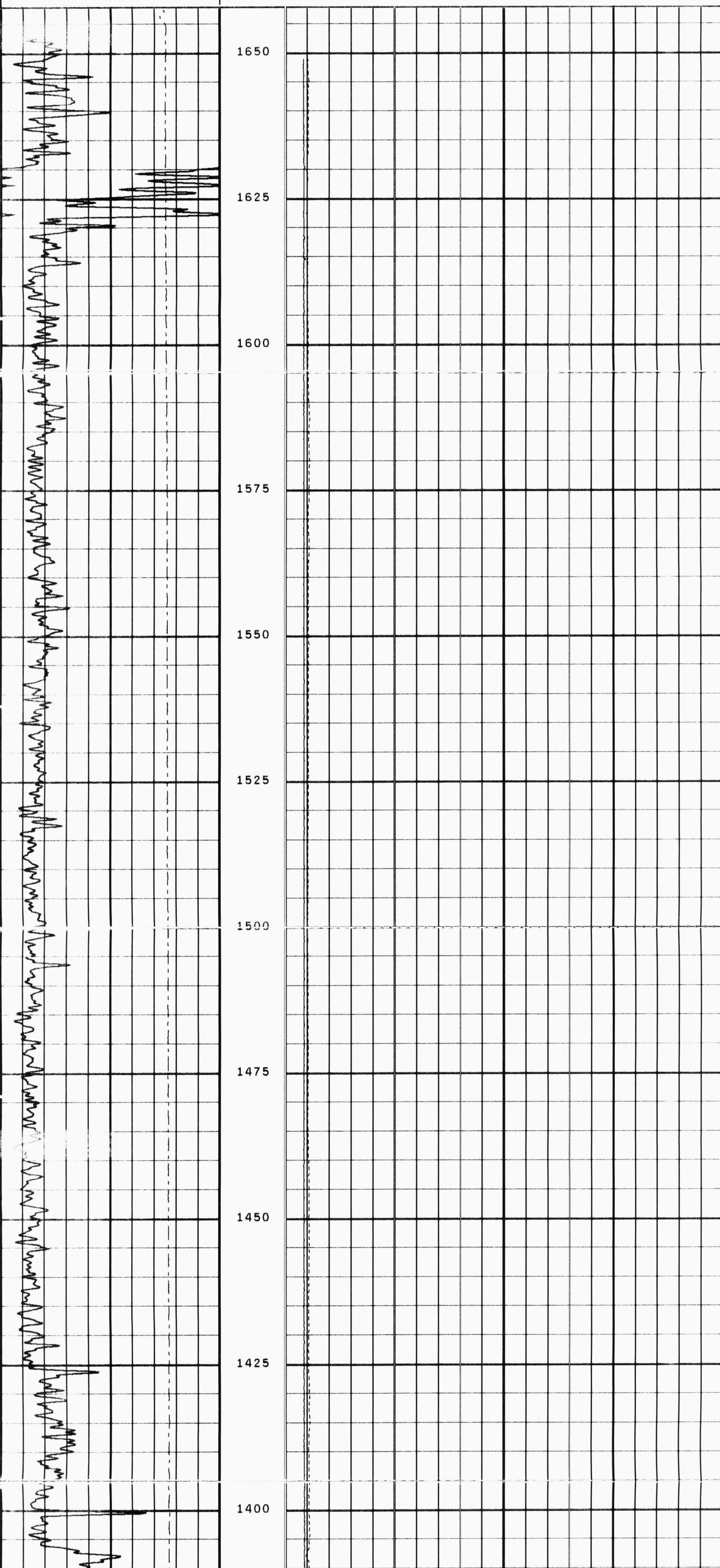
VERSION 2002.01.30.16

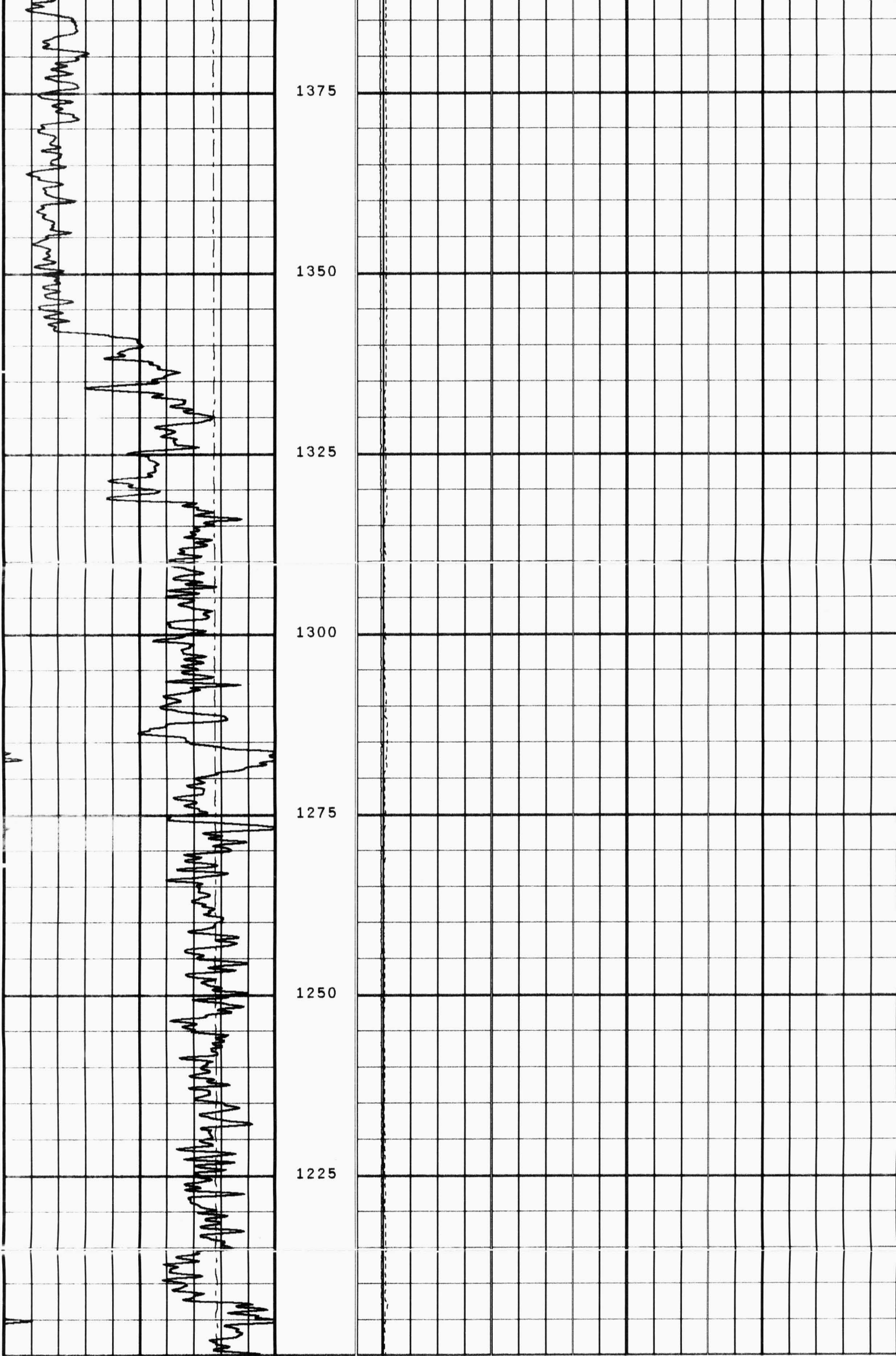
MAIN PASS

30010823 SPEDOWN

FINISH DEPTH: 1658.1 Meters DIRECTION: DOWN DATE: 03/05/2002 TIME: 05:44 MODE: TRACE PLAYBACK

Tension		1.5" Resistivity	
10000	Pounds	0.0	OhmMeters
Gamma Ray		2" Resistivity	
0	API	0.0	OhmMeters





Gamma Ray		2" Resistivity	
0	API	0.0	OhmMeters
150		4.0	
Tension		1.5" Resistivity	
10000	Pounds	0.0	OhmMeters
0		4.0	

START DEPTH: 382.3 DIRECTION: DOWN DATE: 03/05/2002 TIME: 05:25 MODE: TRACE PLAYBACK
30010823 SPEDOWN

MAIN PASS

VERSION: 2002.01.30.16

SYSTEM CONSTANTS			
NAME	DESCRIPTION	VALUE	UNITS
TDL	TD-Logger	1660.70	Meters
BS	Bit Size	222.00	Millimeters
BHT	Bottom Hole Temp	49.0	DegreesCentigrade
SFT	Mean Annual Surf Temp	5.0	DegreesCentigrade

REMARKS

MAIN PASS
1:240 SCALE

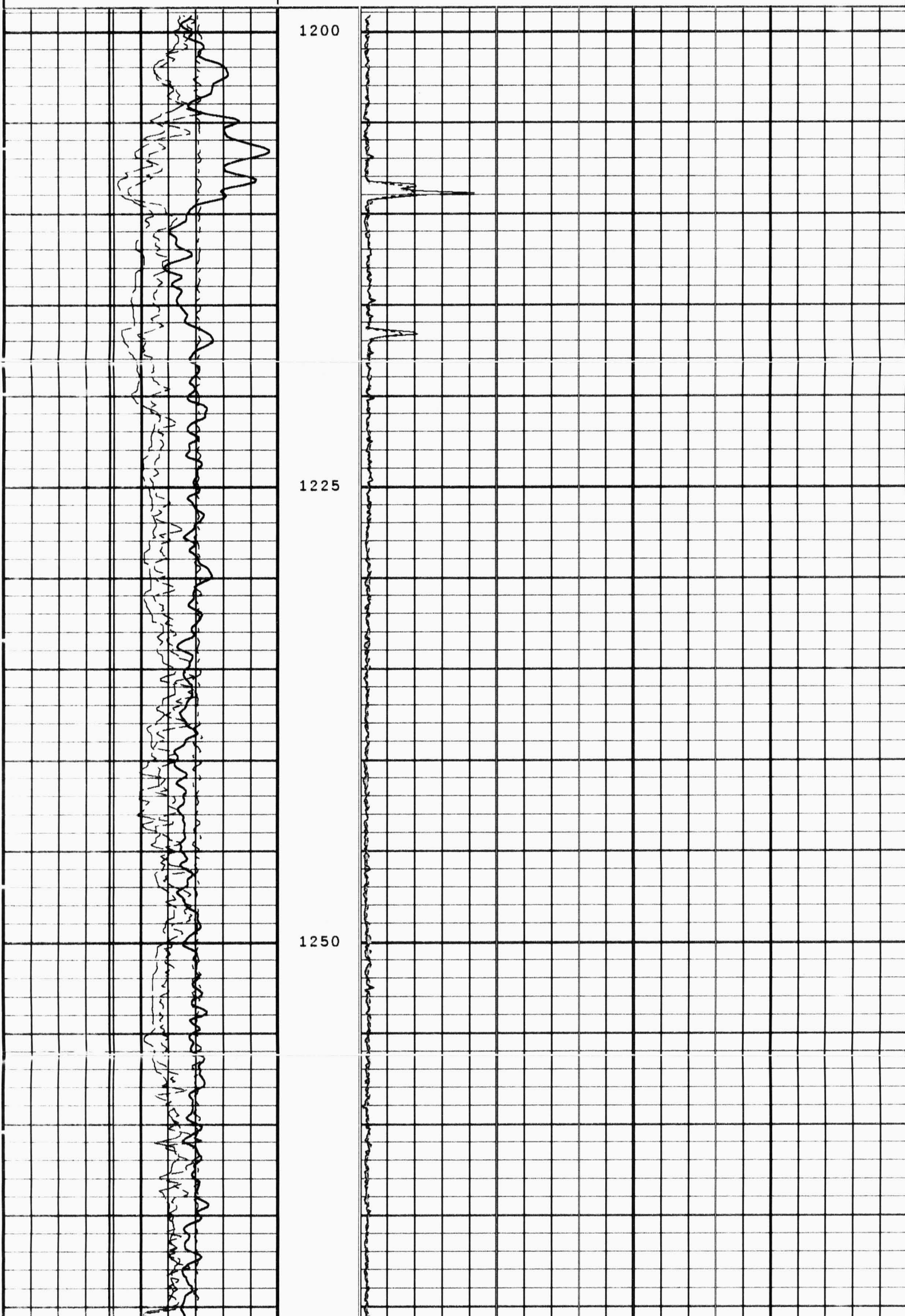
VERSION 2002.01.30.16

MAIN PASS

30010823 SPEMP

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

Tension		1.5" Resistivity	
10000	Pounds	0.0	OhmMeters
0		40.0	
Y Caliper		2" Resistivity	
125	Millimeters	0.0	OhmMeters
375		40.0	
MEL Caliper			
125	Millimeters		
375			
Gamma Ray			
0	API		
150			



1275

1300

1325

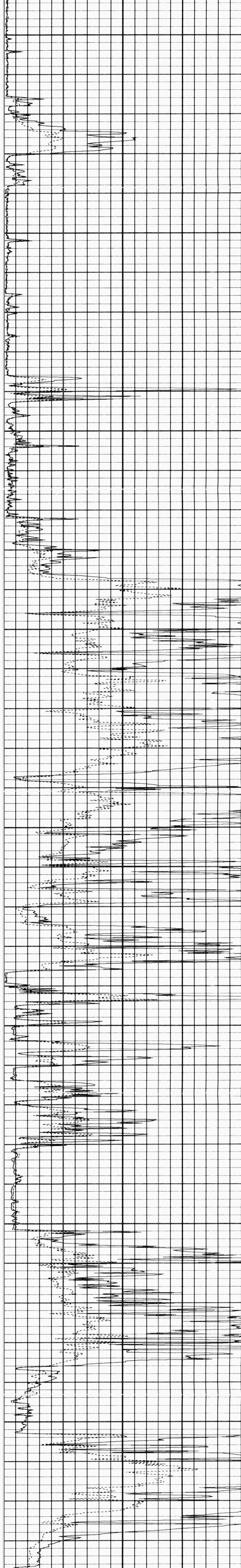
1350

1375

1400

1425

1450



1475

1500

1525

1550

1575

1600

1625

1650

← FR Y Caliper

← FR MEL Caliper

← FR Gamma Ray

← Tension

← BIT SIZE

TD

← FR 2 Resistivity

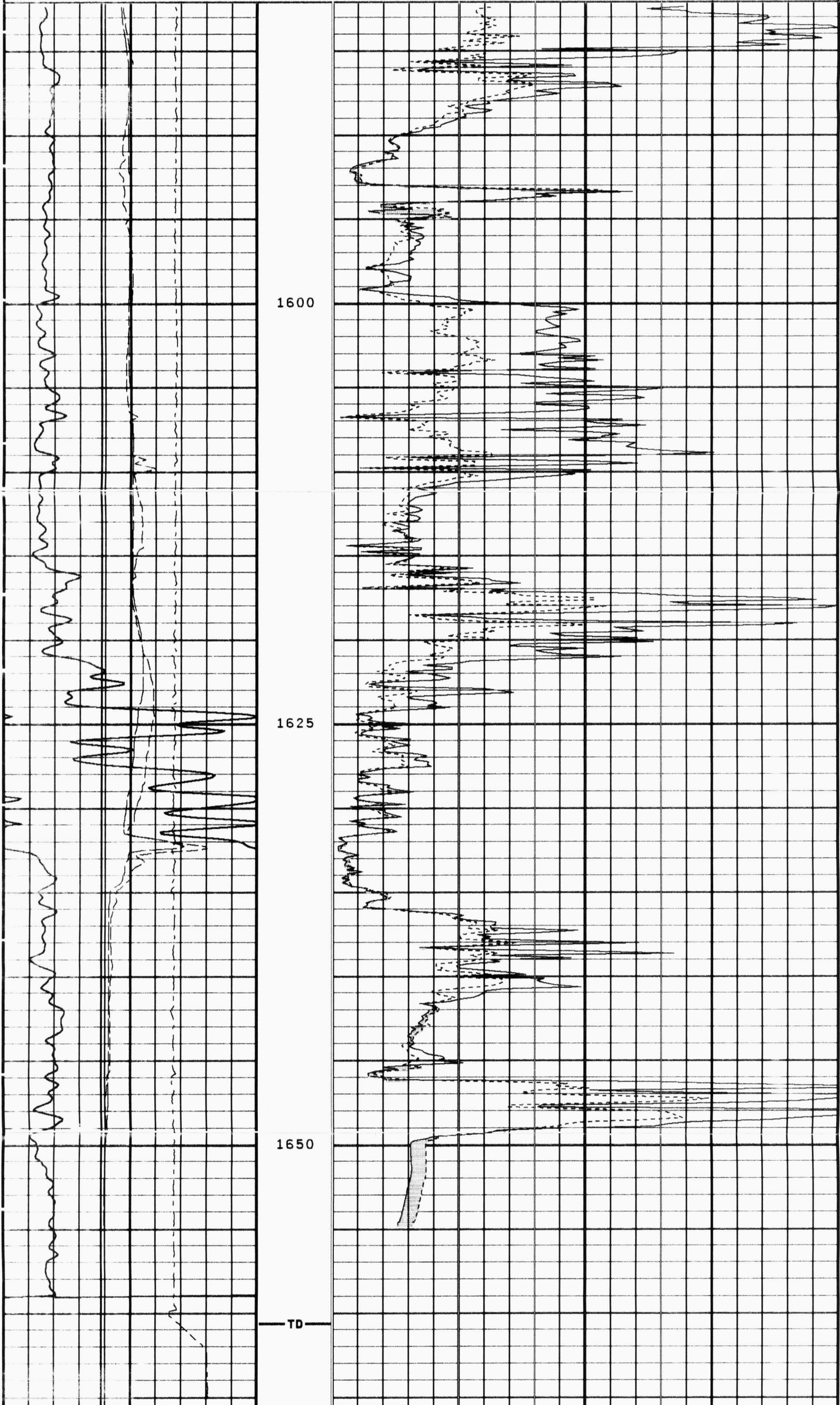
← FR 1.5 Resistivity

Gamma Ray			2" Resistivity		
0	API	150	0.0	OhmMeters	40.0
MEL Caliper			1.5" Resistivity		
125	Millimeters	375	0.0	OhmMeters	40.0
Y Caliper					
125	Millimeters	375			
Tension					
10000	Pounds	0			
START DEPTH: 1665.9 DIRECTION: UP			DATE: 03/05/2002 TIME: 06:16 MODE: TRACE PLAYBACK 30010823 SPERP		
MAIN PASS			VERSION: 2002.01.30.16		
SYSTEM CONSTANTS					
NAME	DESCRIPTION	VALUE	UNITS		
TDL	TD-Logger	1660.70	Meters		
BS	Bit Size	222.00	Millimeters		
BHT	Bottom Hole Temp	49.0	DegreesCentigrade		

REMARKS	
REPEAT PASS 1:240 SCALE	

VERSION 2002.01.30.16	
REPEAT PASS	
30010823 SPERP	
FINISH DEPTH: 1582.4 Meters DIRECTION: UP DATE: 03/05/2002 TIME: 05:59 MODE: TRACE PLAYBACK	

Tension			1.5" Resistivity		
10000	Pounds	0	0.0	OhmMeters	40.0
Y Caliper			2" Resistivity		
125	Millimeters	375	0.0	OhmMeters	40.0
MEL Caliper					
125	Millimeters	375			
Gamma Ray					
0	API	150			



Gamma Ray			2" Resistivity		
0	API	150	0.0	OhmMeters	40.0
MEL Caliper			1.5" Resistivity		
125	Millimeters	375	0.0	OhmMeters	40.0
Y Caliper					
125	Millimeters	375			
Tension					
10000	Pounds	0			

START DEPTH: 1665.8 DIRECTION: UP			DATE: 03/05/2002 TIME: 05:59 MODE: TRACE PLAYBACK 30010823 SPERP		
REPEAT PASS			VERSION: 2002.01.30.16		
SYSTEM CONSTANTS					
NAME	DESCRIPTION	VALUE	UNITS		
TDL	TD-Logger	1660.70	Meters		
BS	Bit Size	222.00	Millimeters		
BHT	Bottom Hole Temp	49.0	DegreesCentigrade		

02/24/02	14:55	0.0 M	Ver 2.0b-2.0b	Job 30012311
Caliper Before Survey Calibration				
Tool Type: CAL-FA		Serial No:calf117		
	Measured		Calibrated	
	Small	Large	Units	Small Large Units
WCLO	822.5	1478.6	mv	177.0 355.0 mm

03/05/02	05:18	58.0 M	Ver 2.0b-2.0b	Job 30010823
MEL Before Survey Calibration				
Tool Type: MRT-AA		Sonde SN: MRSB126		
Firmware Version: 2.02		Electronics SN: MRCB126		
OFFSET (0.0 +/- 100)		CURRENT	2" NORMAL	1.5" INVERSE
CALCULATED VALUE		1.1	0.8	0.1
CALIBRATION (2375.0 +/- 475)		2271.1	26.00 OHMM	20.00 OHMM
			2257.9	2261.3
Calibration Constant			26.15	20.08

03/05/02 07:40 320.0 M Ver 2.0b-2.0b Job 30010823

MEL After Survey Check

Tool Type: MRT-AA Sonde SN: MRSB126
Firmware Version: 2.02 Electronics SN: MRCB126

	CURRENT		2" NORMAL		1.5" INVERSE	
	BEFORE	AFTER	BEFORE	AFTER	BEFORE	AFTER
OFFSET	1.1	1.2	0.8	1.2	0.1	0.8
CALIBRATION	2271.1	2259.5	2257.9	2258.6	2261.3	2259.5
CALCULATED VALUE			26.00	26.14	20.00	20.09 OHMM

02/24/02 14:57 0.0 M Ver 2.0b-2.0b Job 30012311

Caliper Before Survey Calibration

Tool Type: MRT-CL Serial No:mrsb126

	Small	Measured Large	Units	Small	Calibrated Large	Units
WCL4	1531.1	3509.1	mv	177.0	355.0	mm

03/04/02 23:55 0.0 M Ver 2.0b-2.0b Job 30010823

Gamma Ray Before Survey Calibration

Tool Type: UGR-JA Serial No: ugrj193
Calibrator No: RA-20S-124

Background	Calibrator	Standard	Units
191.2	674.1	140.0	API
Delta Counts Per Sec: 432.9		CPS/API = 3.449	

O.H. Adaptor Head

Weight 18.0 kg
Length 0.74 m
Max. Diameter 8.9 cm
Total Stack Weight 560.2 kg in air
Total Stack Length 19.54 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

MRT 400

Weight 121.5 kg
Length 4.04 m
Max. Diameter 12.7 cm

SPeD 400 Electronics

Weight 56.7 kg
Length 2.92 m
Max. Diameter 8.6 cm

Universal GR

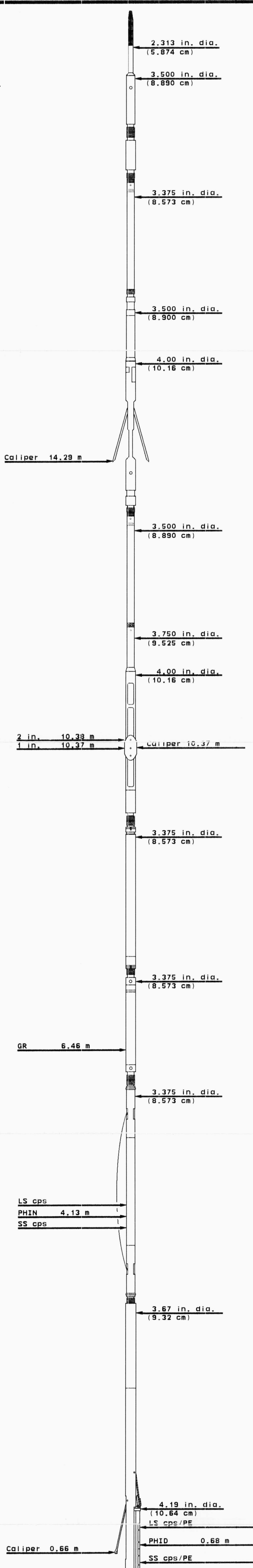
Weight 37.3 kg
Length 1.40 m
Max. Diameter 8.6 cm

Mandrel Neutron

Weight 45.4 kg
Length 2.07 m
Max. Diameter 8.6 cm

SPeD 400 Pad Section

Weight 141.5 kg
Length 3.38 m
Max. Diameter 11.4 cm



Tool Zero

COMPANY	PARAMOUNT RESOURCES LTD.	
WELL	PARA ET AL CAMERON H-03	
FIELD	CAMERON HILLS	PROVINCE N.W.T.

COMPUTALOG