HALLIBURTON
LOGGING SERVICES, INC.

SIX ELECTRODE DIPMETER
BOREHOLE PROFILE
CALIPER PRESENTATION

FILING NO.

COMPANY MAXUS EXPLORATION

WELL MAXUS HI-LO 22-1

FIELD WILDCAT

COUNTY LINCOLN STATE NEVADA

Location:
1668' FNL & 1765' FWL

SEC 1 TWP 7S RGE 58E

Other Services:
DLL MGL
SDL DSN FWS D
RSCT

Permanent Datum: GL Elev. 4470
Log measured from KB 21.6 above perm. datum
Drilling measured from KB

Elev.: K.B. 4491.6
D.F. 4490.6
G.L. 4470

FIELD PRINT TIGHT HOLE

Date	04/18/91			
Run No.	ONE			
Depth – Driller	5215			
Depth – Logger	5196			
Bottom Logged Interval	5196			
Top Logged Interval	1492			
Casing – Driller	13 3/8 @ 1500		@	
Casing – Logger	1492			
Bit Size	8 3/4			
Type fluid in hole	GEL			
Density | Viscosity	9.1 | 34			
pH | Fluid Loss	9.0 | 10.8			
Source of Sample	COMP. MAN			
Rm @ Meas. Temp.	0.7 @ 70 °F		@ °	
Rmf @ Meas. Temp.	0.6 @ 63 °		@ °	
Rmc @ Meas. Temp.	1.0 @ 64 °		@ °	
Source: Rmf Rmc	MEAS | MEAS			
Rm @ BHT	0.382 @ 134 °		@ °	
Time: End Circulation	06:30 04/17/91			
Time: Logger on bottom	06:05 04/18/91			
Max. rec. Temp.	134 °		°	
Equip. No. | Location	3524 | RK SPG			
Recorded by	B. LANEY			
Witnessed by	J. ALDRICH			

Fold Here

Changes in Mud Type or Additional Samples

Date | Sample No.	04/18/91	
Depth – Driller	5215	
Type fluid in hole	GEL	
Chlorides	ppm	ppm
Dens. | Visc.	9.1 | 34	
ph | Fluid Loss	9.0 | 10.8	
Source of Sample	COMP. MAN	
Rm @ Meas. Temp.	0.7 @ 70 °	@ °
Rmf @ Meas. Temp.	0.6 @ 63 °	@ °
Rmc @ Meas. Temp.	1.0 @ 64 °	@ °
Source: Rmf | Rmc	MEAS. | MEAS.	
Rm @ BHT	0.382 @ 134 °	@ °
Rmf @ BHT	0.297 @ °	@ °
Rmc @ BHT	0.503 @ °	@ °

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

Tool Type	Serial No.	Tool Position	Other
SED-BA	229-013	CENTRALIZED	TOP OVERBODY BOW SPRING
UGR-HA	33109	CENTRALIZED	

Remarks 18 INCH ARMS WERE USED DUE TO HOLE CONDITIONS.
BIT SIZE WAS CHANGED FROM 12 1/4 TO 8 3/4 AT 2212.
DIAMETERS PRESENTED IN TRACK ONE ARE DERIVED AS FOLLOWS: DIA1 FROM CAL1 & CAL4
DIA2 FROM CAL2 & CAL5, AND DIA3 FROM CAL3 & CAL6

HALLIBURTON LOGGING SERVICES, INC. (HLS) does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by HLS personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that HLS is not responsible, except where due to gross negligence or willful misconduct, for any loss, damages, or expenses resulting thereof

HALLIBURTON LOGGING SERVICES, INC.

SED (Both)/GR

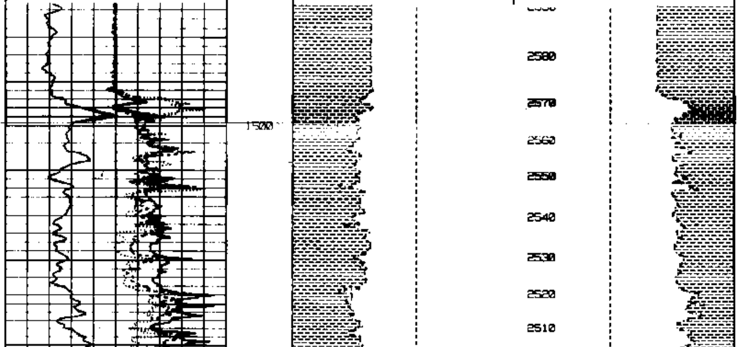
HALLIBURTON LOGGING SERVICES DDL-V Logging System - V3.22

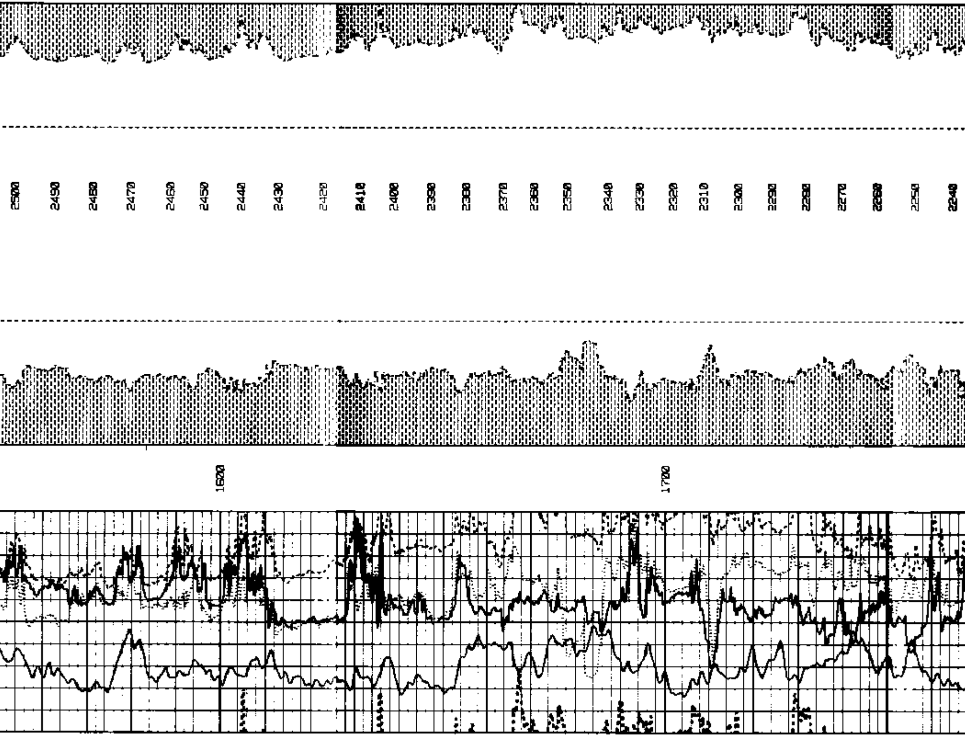
PLAYBACK CUSTOMER DATA - TOP DEPTH 1472.6 ft

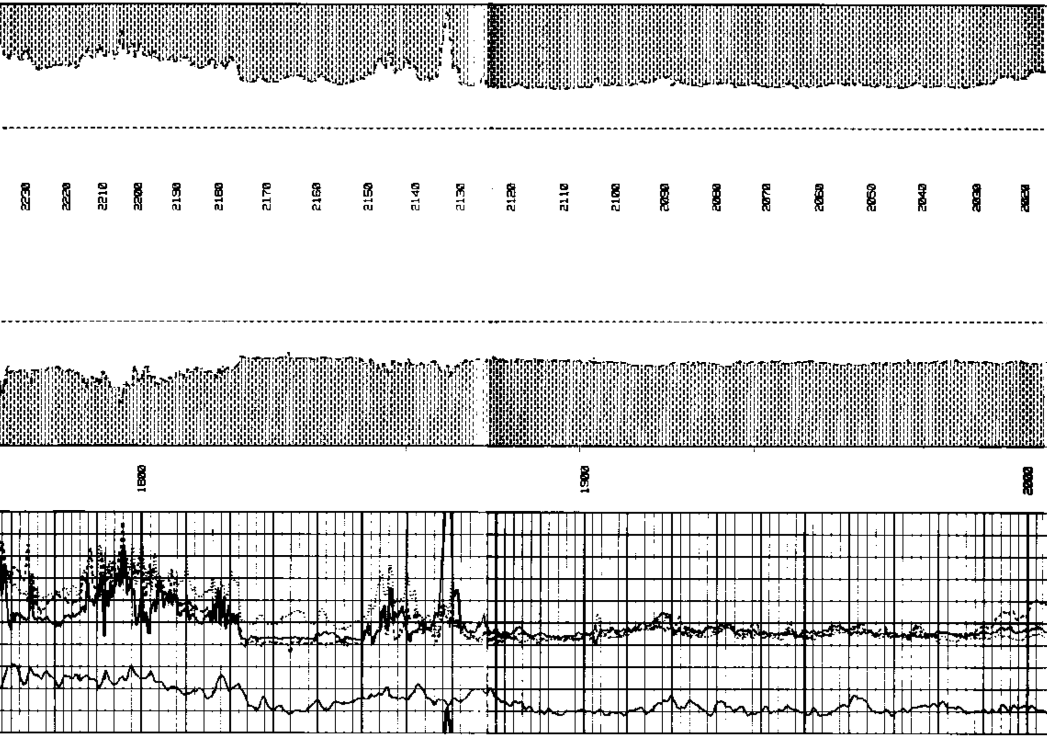
Logged on 18/Apr/91 at 08:05

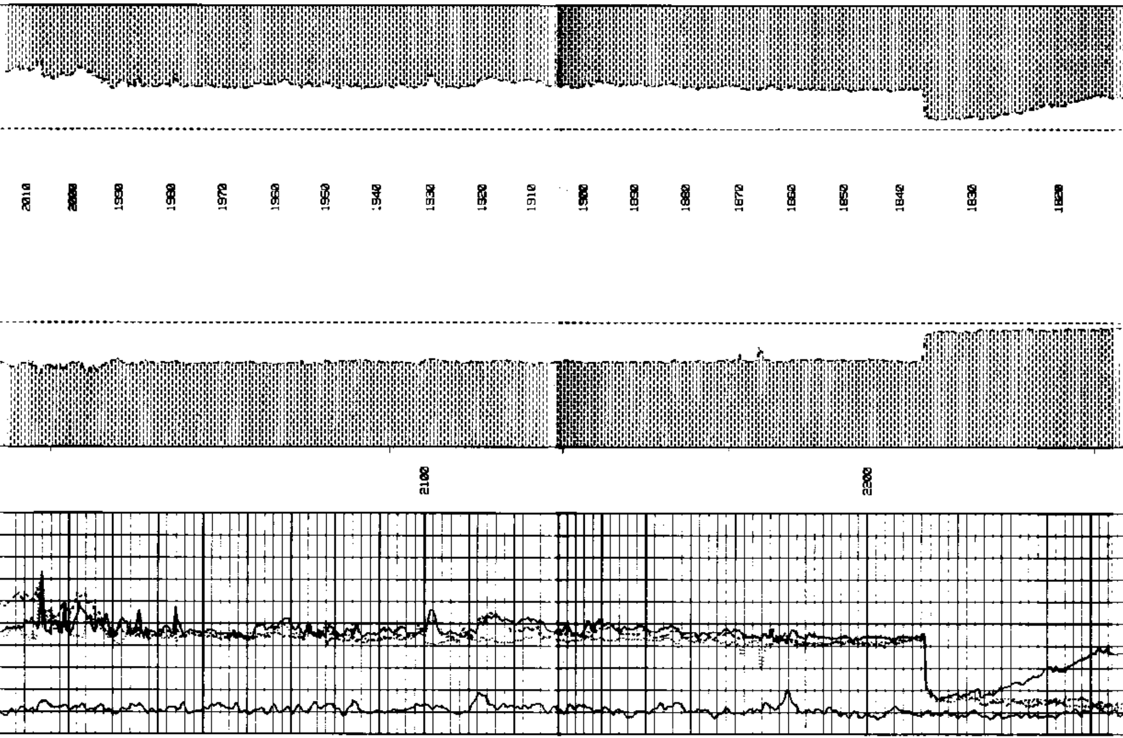
BHV Displayed every 10.00 cu ft

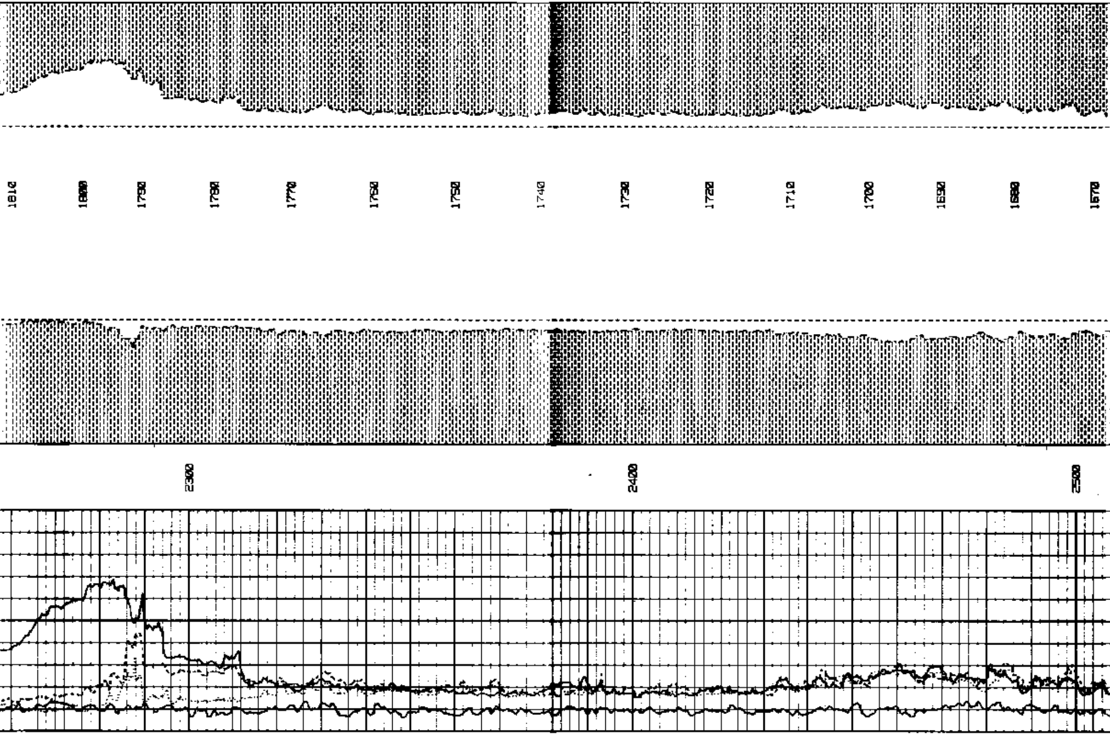
DIAMETERS			DEPTH						
8.00	DIA1	18.00	1:238.2 ft	10.00	BIT1	0.00	0.00	BIT2	10.00
	Inches				Inches			Inches	
8.00	DIA2	18.00		10.00	RMIN	0.00	0.00	RMAX	10.00
	Inches				Inches			Inches	
8.00	DIA3	18.00							
	Inches								
0.00	GR	150.00							
	API								

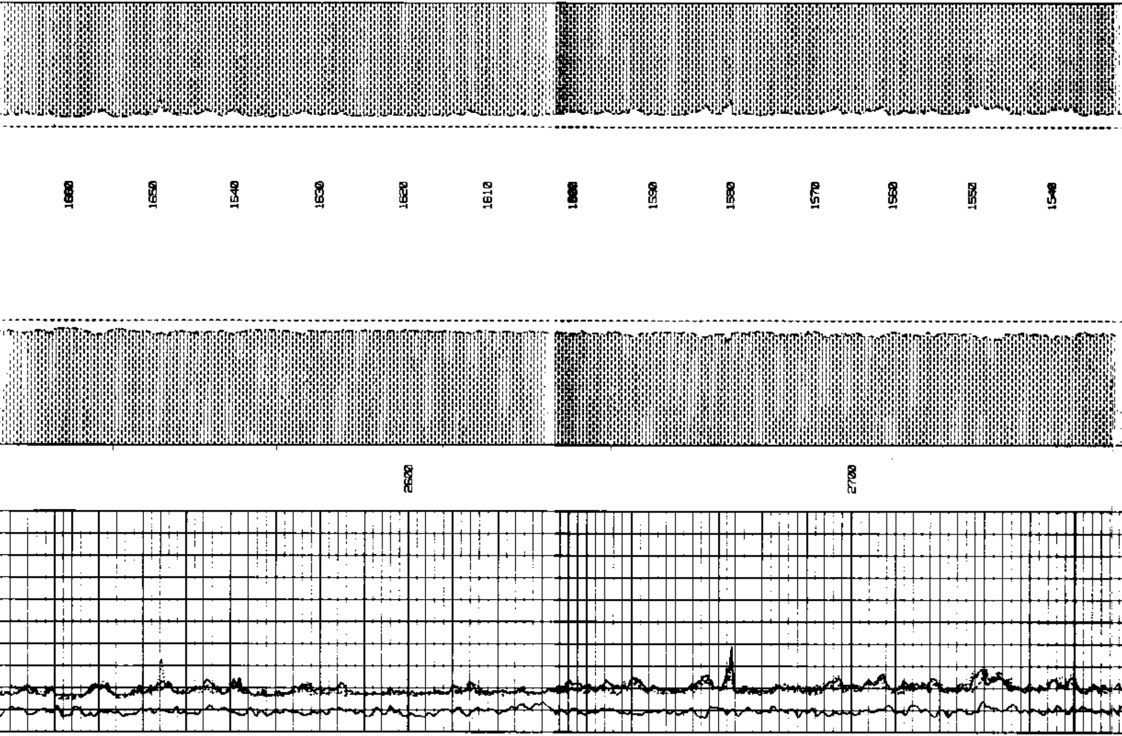


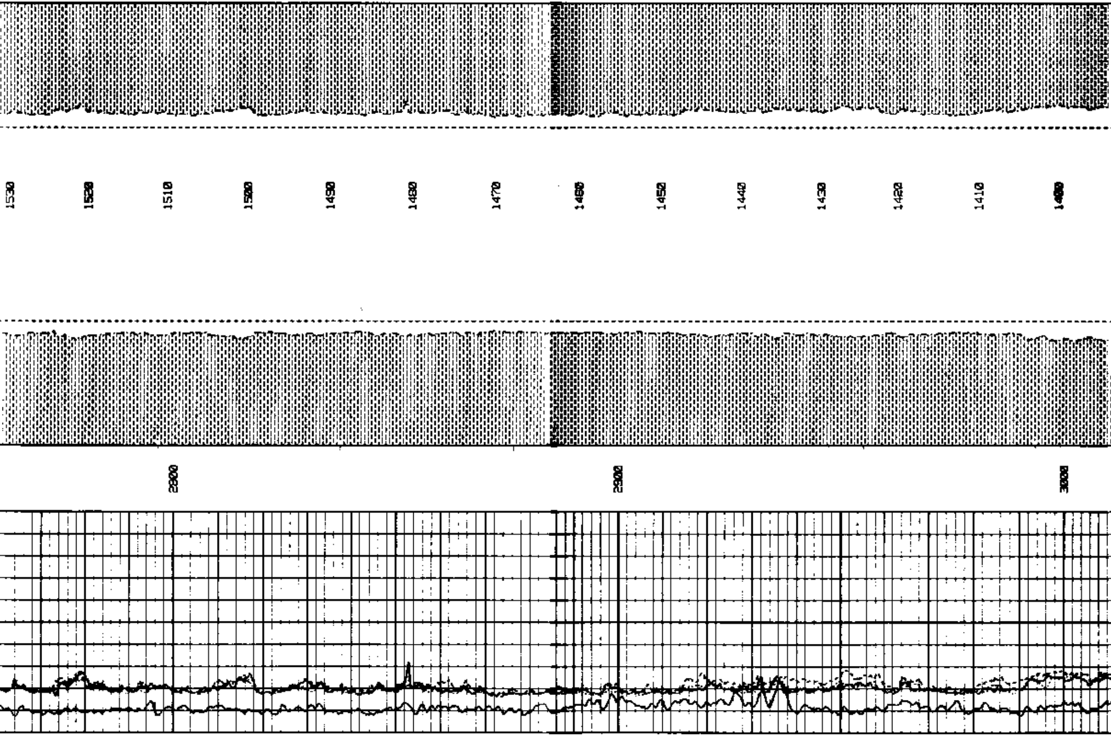


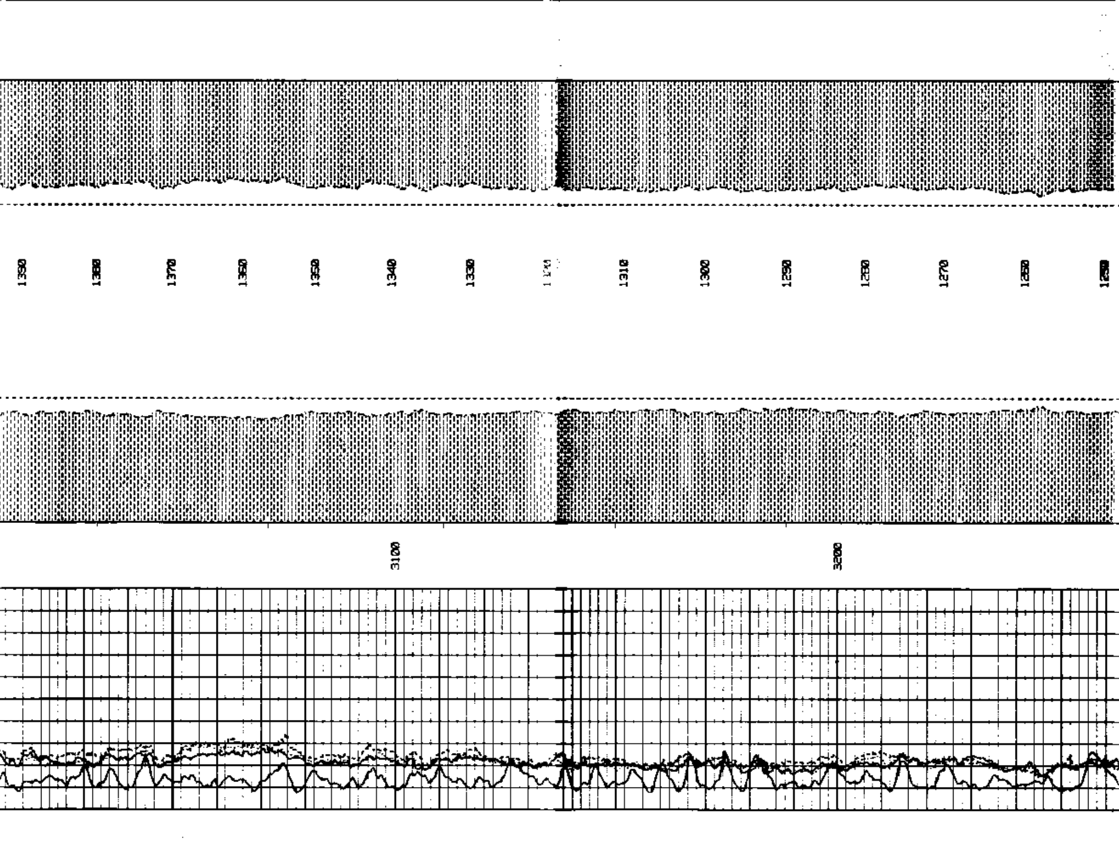


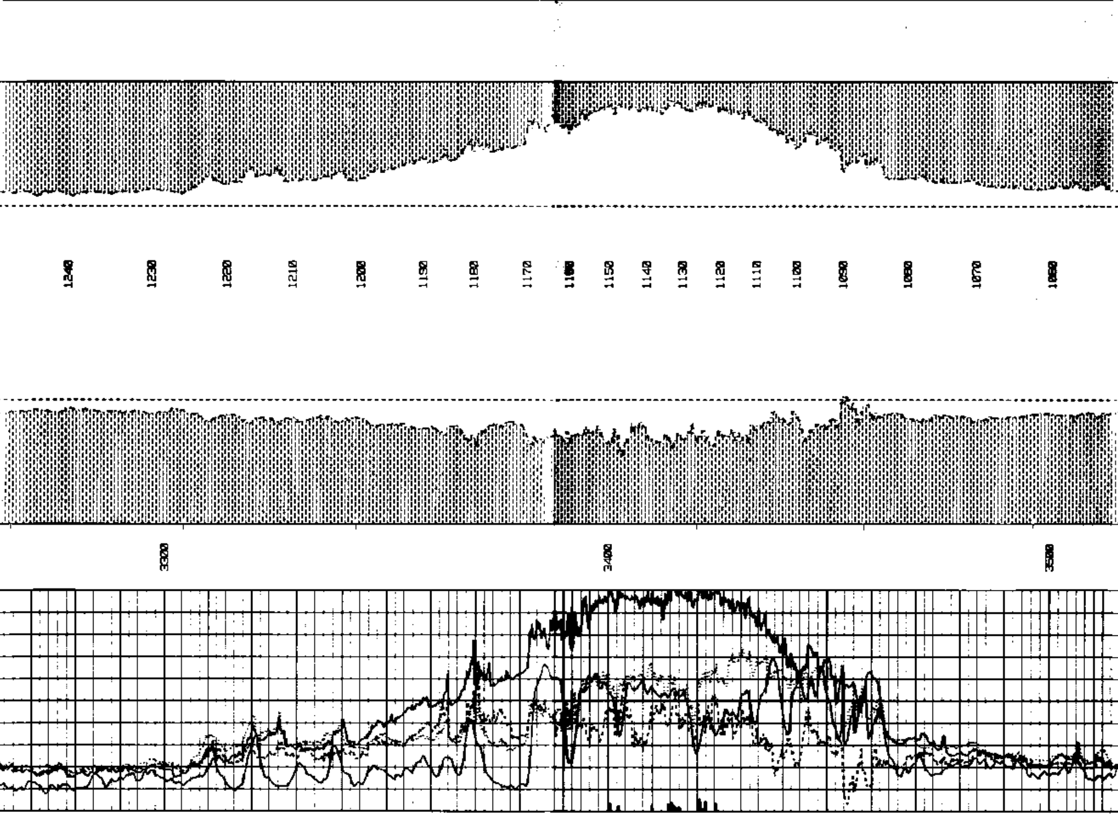


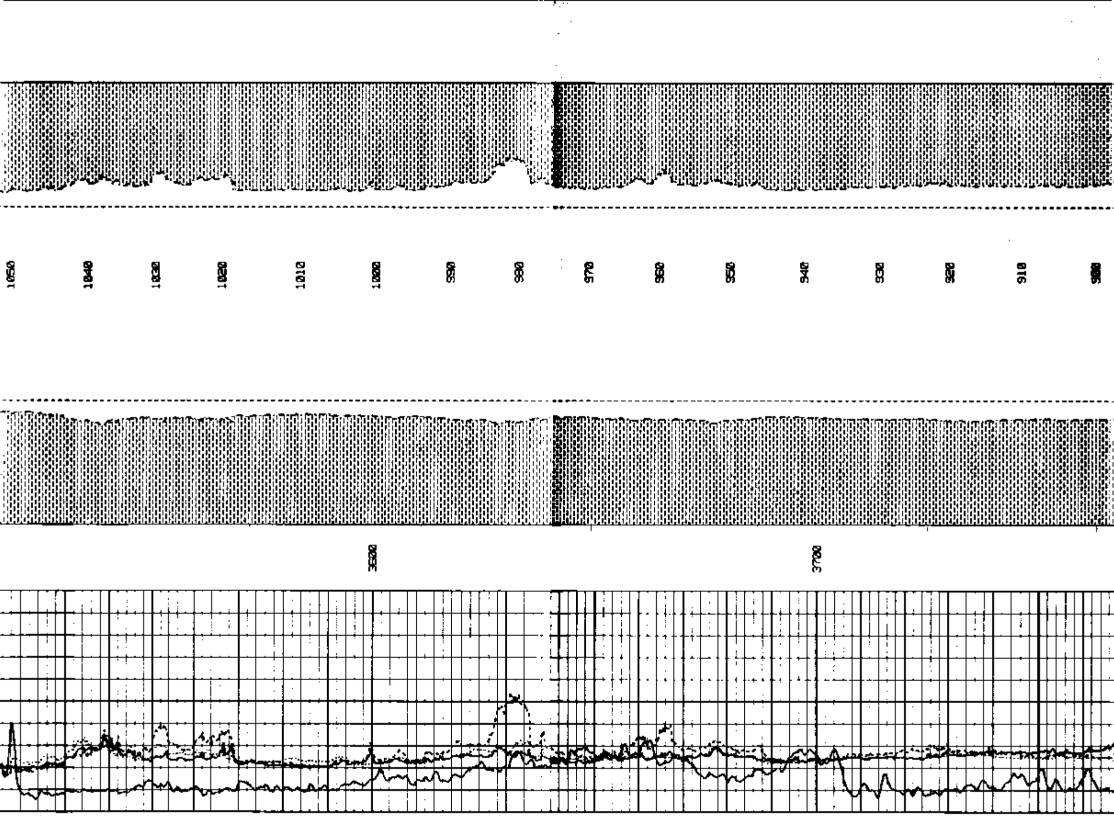


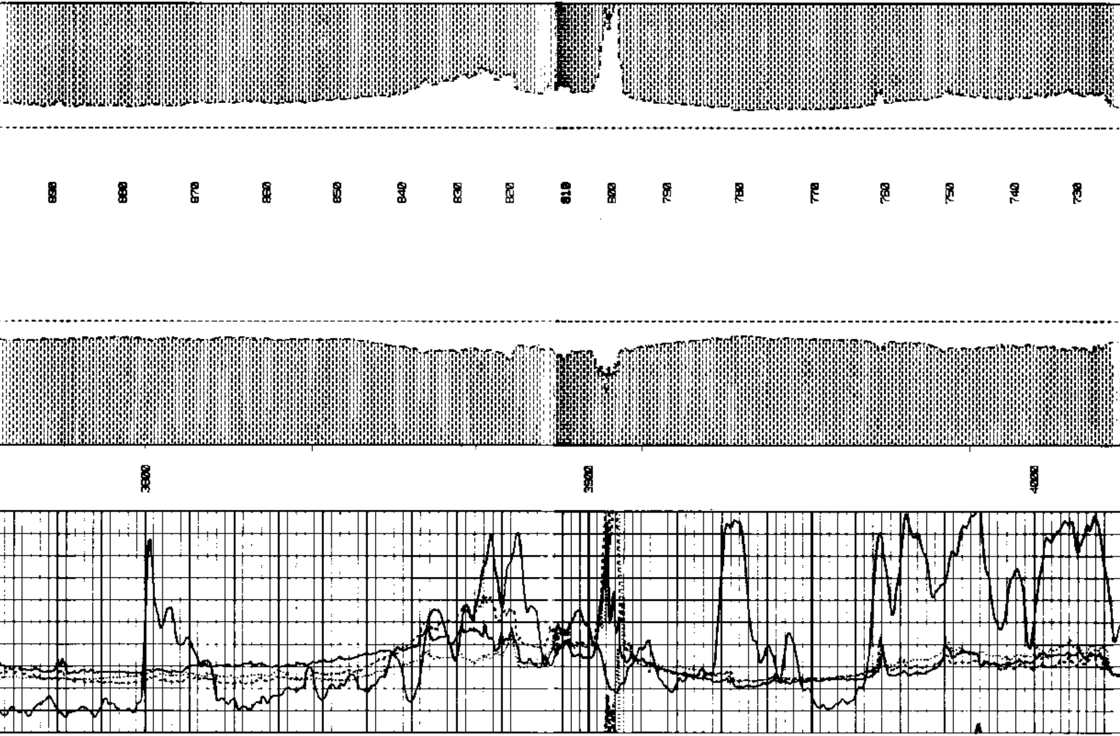


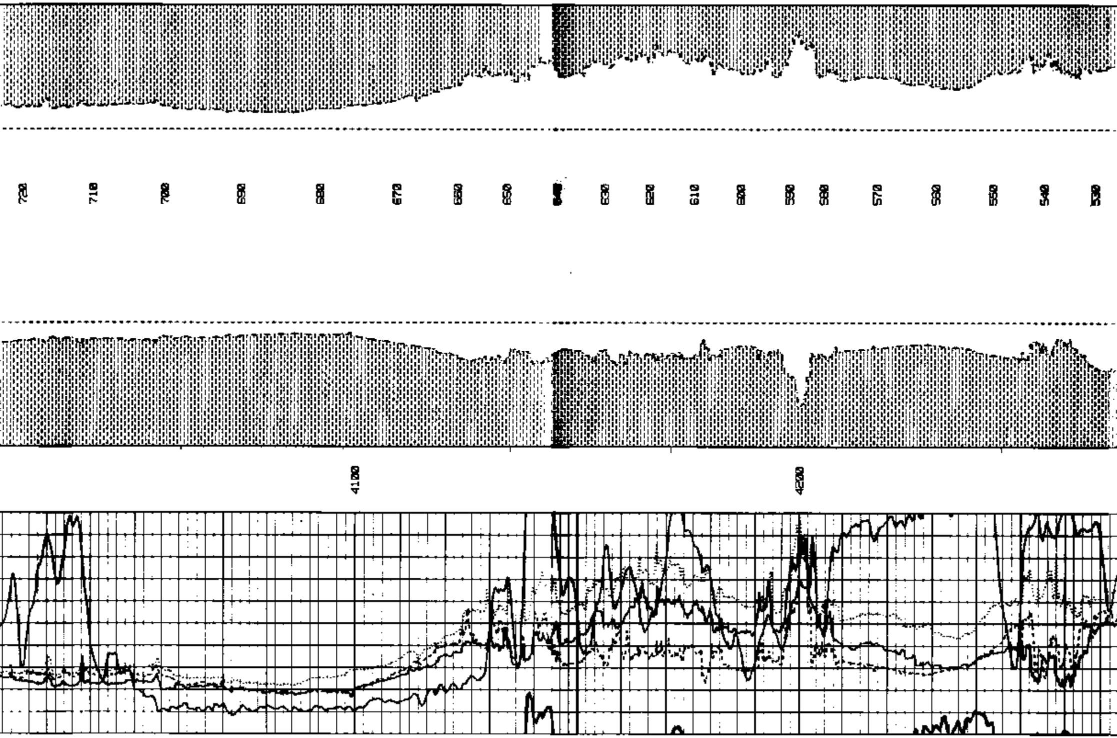


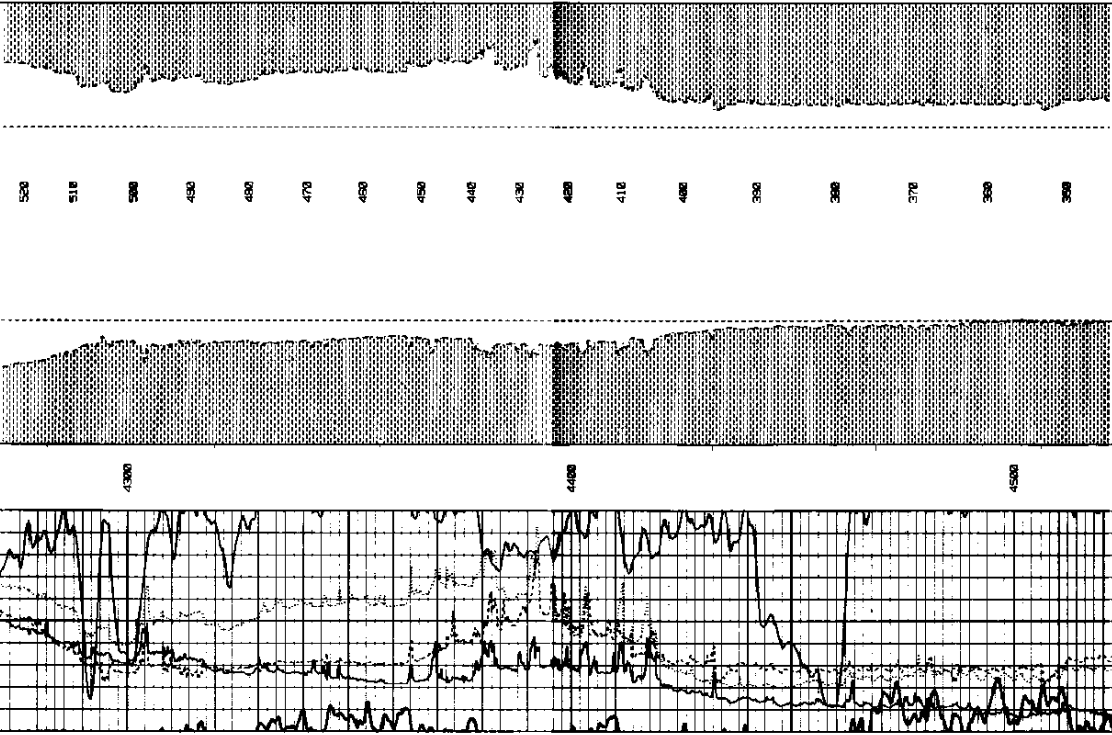


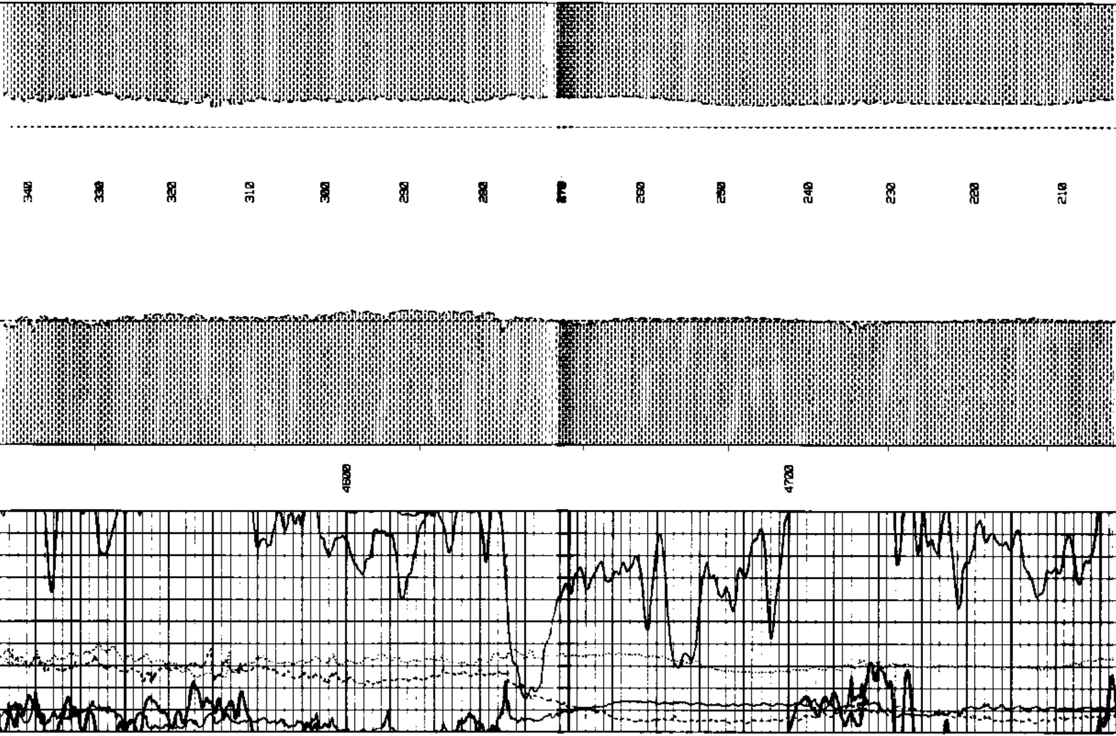


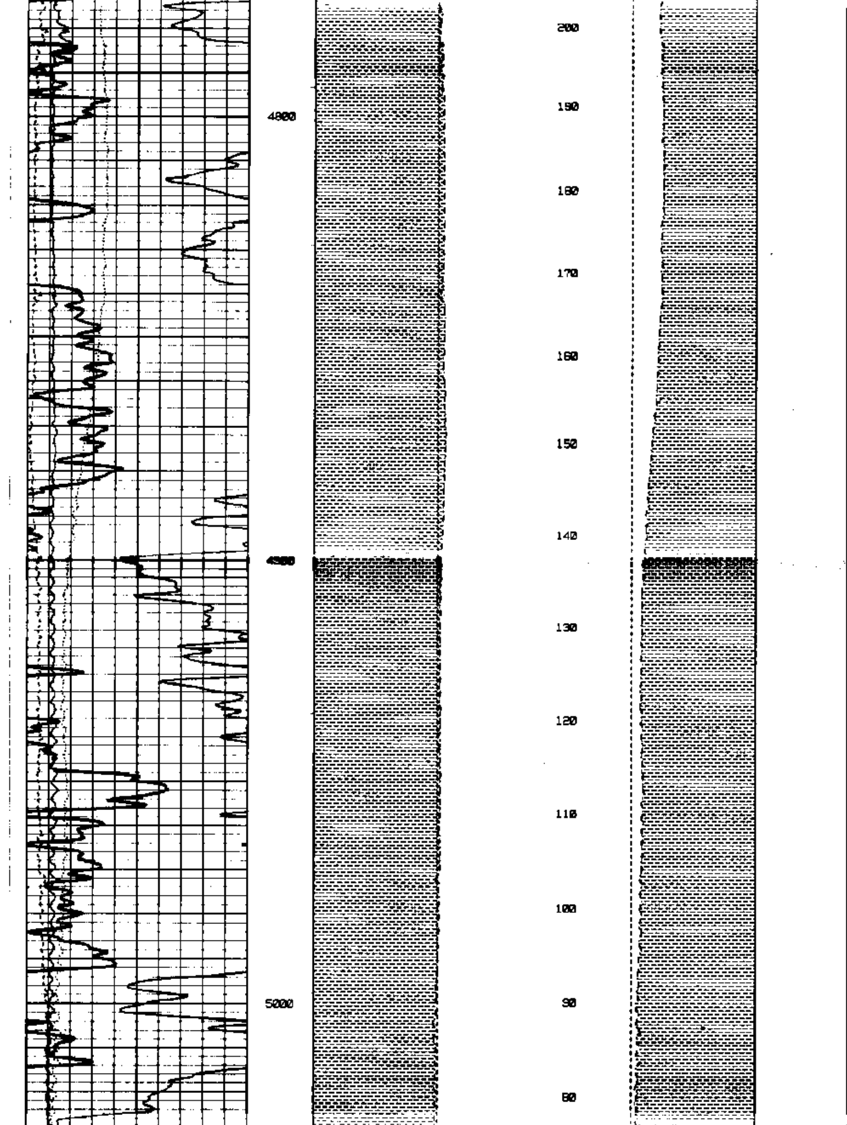


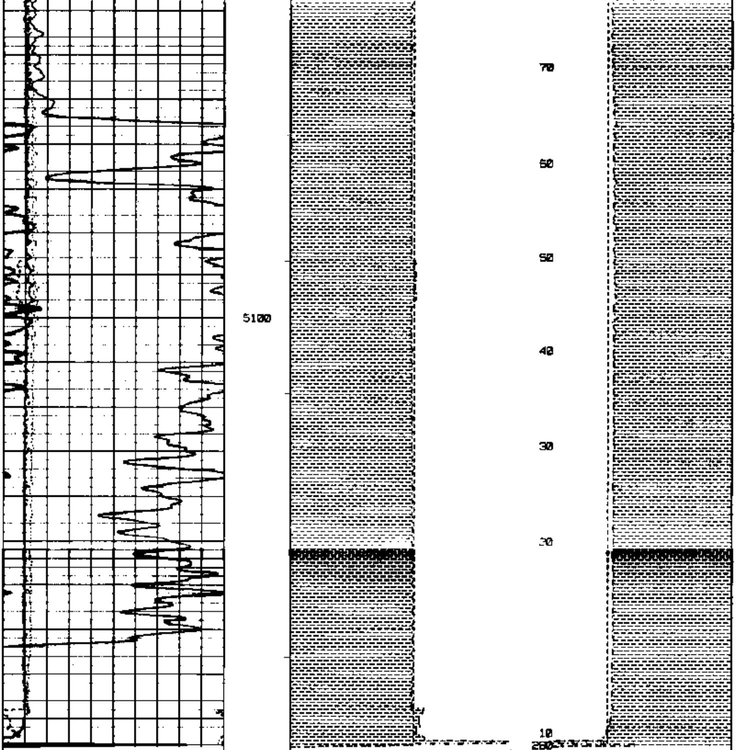












0.00	GR	150.00										
	API											
8.00	DIA3	18.00										
	Inches											
8.00	DIA2	18.00			10.00	RMIN	0.00		0.00	RMAX	10.00	
	Inches			ft		Inches				Inches		
8.00	DIA1	18.00		1:236.2	10.00	BIT1	0.00		0.00	BIT2	10.00	
	Inches					Inches				Inches		
	DIAMETERS			DEPTH								

BHV Displayed every 10.00 cu ft

HALLIBURTON LOGGING SERVICES DDL-V Logging System - V3.22

PLAYBACK CUSTOMER DATA - BOTTOM DEPTH 5196.5 ft

Logged on 18/Apr/91 at 06:05

SED (Both)/GR

DIPMETER AFTER-SURVEY CALIBRATION CHECK

Tool type	SED -BW	Serial Number	323
Date performed	18/Apr/91	Time performed	09:21

Tool Type	BW
Tool Serial No SEP	323
Navigation Serial No SEI	112
Electronics Serial No SEE	2107
Mechanics Serial No	013

Pads

	Internal Zero		High		
	Before	After	Before	After	
PDD1	0.000	0.000	1.000	0.995	ohm.m
PDD2	0.000	0.004	1.000	0.994	ohm.m
PDD3	0.000	0.004	1.000	0.994	ohm.m
PDD4	0.000	0.000	1.000	0.994	ohm.m
PDD5	0.000	-0.001	1.000	0.995	ohm.m
PDD6	0.000	-0.001	1.000	0.994	ohm.m
PDDV	0.000	0.014	2.500	2.488	V

Calipers

	Small Ring		Large Ring		
	Before	After	Before	After	
CAL1	7.000	6.849	15.000	14.686	inches
CAL2	7.000	7.068	15.000	15.191	inches
CAL3	7.000	7.113	15.000	15.318	inches
CAL4	7.000	6.881	15.000	15.000	inches
CAL5	7.000	6.951	15.000	14.879	inches
CAL6	7.000	6.809	15.000	14.694	inches

DIPMETER MISCELLANEOUS CALIBRATION

Tool type	SED -BW	Serial Number	323
Date performed	18/Apr/91	Time performed	04:39

Tool Type	BW
Tool Serial No SEP	323
Navigation Serial No SEI	112
Electronics Serial No SEE	2107
Mechanics Serial No	013

Casing Check

CAL1	12.073	inches
CAL2	13.847	inches
CAL3	14.873	inches
CAL4	13.814	inches
CAL5	11.941	inches
CAL6	11.204	inches

GAMMA RAY TOOL BEFORE-SURVEY CALIBRATION

Tool type	GR -HA	Serial Number	33109
Date performed	18/Apr/91	Time performed	00:31

Background	Calibrator	Standard	Units
47.58	788.55	163.00	CPS

Delta Counts Per Sec: 740.97 CPS/API = 3.03

DIPMETER BEFORE-SURVEY CALIBRATION

Tool type	SED -BW	Serial Number	323
Date performed	18/Apr/91	Time performed	04:32

Tool Type	BW
Tool Serial No SEP	323
Navigation Serial No SEI	112
Electronics Serial No SEE	2107
Mechanics Serial No	013

Pads

	Measured		Calibrated		
	Int Zero	High	Int Zero	High	Units
PDD1	-0.002	0.964	0.0	1.0	ohm.m
PDD2	0.014	0.959	0.0	1.0	ohm.m
PDD3	-0.014	0.966	0.0	1.0	ohm.m
PDD4	0.000	0.970	0.0	1.0	ohm.m
PDD5	0.022	0.967	0.0	1.0	ohm.m
PDD6	-0.013	0.970	0.0	1.0	ohm.m
PDDV	-0.010	2.441	0.0	2.5	V

Presser

	Measured		Calibrated		
	Zero	Cal	Zero	Cal	Units
PRES	-0.067	1.173	0.0	1.0	

Calipers

	Measured		Calibrated		
	Small	Large	Small	Large	Units
CAL1	7.589	12.468	7.0	15.0	inches
CAL2	7.658	12.468	7.0	15.0	inches
CAL3	6.746	11.556	7.0	15.0	inches
CAL4	8.680	13.341	7.0	15.0	inches
CAL5	9.493	14.571	7.0	15.0	inches
CAL6	7.696	12.905	7.0	15.0	inches

DIPMETER MASTER CALIBRATION

Tool type SED -BW
Date performed 5/Jan/91

Serial Number 323
Time performed 16:26

Tool Type	BW
Tool Serial No SEP	323
Navigation Serial No SEI	112
Electronics Serial No SEE	2107

	Measured		Calibrated		
	Cal 1	Cal 2	Cal 1	Cal 2	Units
ACCX	5.44318	2.87250	1.0	0.0	g
ACCY	5.48356	2.90739	1.0	0.0	g
ACCZ	2.88130	5.46212	0.0	1.0	g
MAGX	7.69418	2.26506	1.0	-1.0	h
MAGY	7.75769	2.32321	1.0	-1.0	h
MAGZ	7.66976	2.32047	1.0	-1.0	h

DREF 5.017 V
TEMP 20.4 deg C

Mnemonic	Sensor	Units	Offset(inches)
TSPD	Tool Speed	ft/min	0.0
SP	Spontaneous Potential	mV	0.0
TCUR	Tool Current	mA	0.0
CCER	Communication Channel Error		0.0
TENS	Line Tension	lbs	0.0
PDD1	Pad Signal (Low Gain)		0.0
PDD2	Pad Signal (Low Gain)		0.0
PDD3	Pad Signal (Low Gain)		0.0
PDD4	Pad Signal (Low Gain)		0.0
PDD5	Pad Signal (Low Gain)		0.0
PDD6	Pad Signal (Low Gain)		0.0
PDDV	Pad Volts (Low Gain)		0.0
PDS1	Pad Signal (High Gain)		0.0
PDS2	Pad Signal (High Gain)		0.0
PDS3	Pad Signal (High Gain)		0.0
PDS4	Pad Signal (High Gain)		0.0
PDS5	Pad Signal (High Gain)		0.0
PDS6	Pad Signal (High Gain)		0.0
PDSV	Pad Volts (High Gain)		0.0
CAL1	Radius 1 (x2)		0.0
CAL2	Radius 2 (x2)		0.0
CAL3	Radius 3 (x2)		0.0
CAL4	Radius 4 (x2)		0.0
CAL5	Radius 5 (x2)		0.0
CAL6	Radius 6 (x2)		0.0
ACCX	X axis Accelerometer		0.0
ACCY	Y axis Accelerometer		0.0
ACCZ	Z axis Accelerometer		0.0

MAGX	X axis Magnetometer		0.0
MAGY	Y axis Magnetometer		0.0
MAGZ	Z axis Magnetometer		0.0
TEMP	Develco Temperature		0.0
PRES	Pad Pressure		0.0
DXTM	Telemetry timing		0.0
DREF	Develco Reference Voltage		0.0
HV	Head Voltage		0.0
ADZ	Downhole ADC Zero Offset		0.0
GR	Gamma Ray	API	259.5

Mnemonic	Curve	Units	Filter-Type	Value	Units
PDD1	Pad Signal (Low Gain)	ohm.m			
PDD2	Pad Signal (Low Gain)	ohm.m			
PDD3	Pad Signal (Low Gain)	ohm.m			
PDD4	Pad Signal (Low Gain)	ohm.m			
PDD5	Pad Signal (Low Gain)	ohm.m			
PDD6	Pad Signal (Low Gain)	ohm.m			
DIA1	Diameter from Cal1 and Cal4	Inches			
DIA2	Diameter from Cal2 and Cal5	Inches			
DIA3	Diameter from Cal3 and Cal6	Inches			
ROT	Rotation of Tool	deg			
DEV	Deviation of Tool	deg			
AZI	Tool Azimuth	deg			
HAZI	Hole Azimuth	deg			
TOTG	Total Gravity	g			
TOTH	Total Magnetic Field	h			
ZACC	Unfiltered ACCZ	g			
GR	Gamma Ray	API			

Mnemonic	Parameter	Value	Units
BitS	Bit Size	8.750	Inch
CSOD	Casing Outer Diameter	7.000	Inch

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