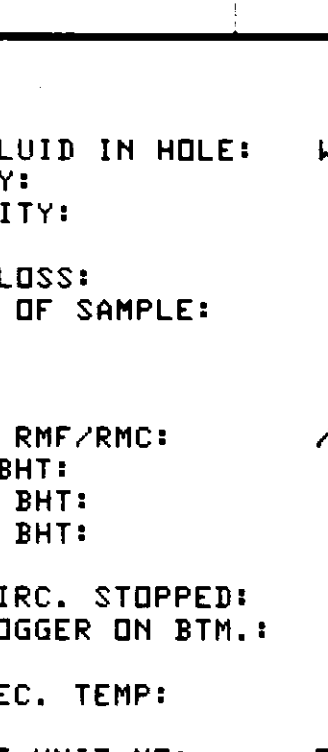


COMPANY: ARCO EXPLORATION & TECHNOLOGY CO.  
 WELL: COLUMBIA COUNTY 832-32

DATE: 11 NOV 85  
 RUN NO: 2  
 DEPTH-DRILLER: 2700.0 F  
 DEPTH-LOGGERS: 2875.0 F  
 TOP LOG INTERVAL: 1700.0 F  
 CASING-DRILLER: 418 F  
 CASING-LOGGERS: 9,628 LB/F  
 BIT HEIGHT: 12.00 LB/F  
 BIT SIZE: 4 1/8 F  
 DRG. MEASURED FROM: KB  
 ELEVATIONS: 889.0 F  
 PERMANENT DATUM: 889.0 F  
 ELEV. OF PERM. DATUM: 889.0 F  
 LOCAL MEASUREMENT FROM: DATUM  
 DRG. MEASURED FROM: KB  
 REEL: 5M  
 FIELD: WILDBOAT  
 COUNTY: COLUMBIA  
 STATE: MISSISSIPPI  
 NATIONAL: USA  
 LOCATION: 12374 N. & 1840 S. OF  
 SEC: 32 NE CORNER T4P-1N  
 REEL: 5M



OTHER SERVICES-  
 CEEL  
 PROGRAM: 82.6.2  
 TAPE NO: 100  
 ORDER NO: 272113

TYPE FLUID IN HOLE: WATER  
 DENSITY:  
 VISCOSITY:  
 PH:  
 FLUID LOSS:  
 SOURCE OF SAMPLE:  
 RMF: AT  
 RMC: AT  
 RM AT BHT: AT  
 RMC AT BHT: AT  
 TIME CIRC. STOPPED:  
 TIME LOGGER ON BTM:  
 MAX. REC. TEMP:  
 LOGGING UNIT NO: 5892  
 RECORDED BY: HODGENFIELD PROD. SERV.  
 WITNESSED BY: ADLER & ANDERSON

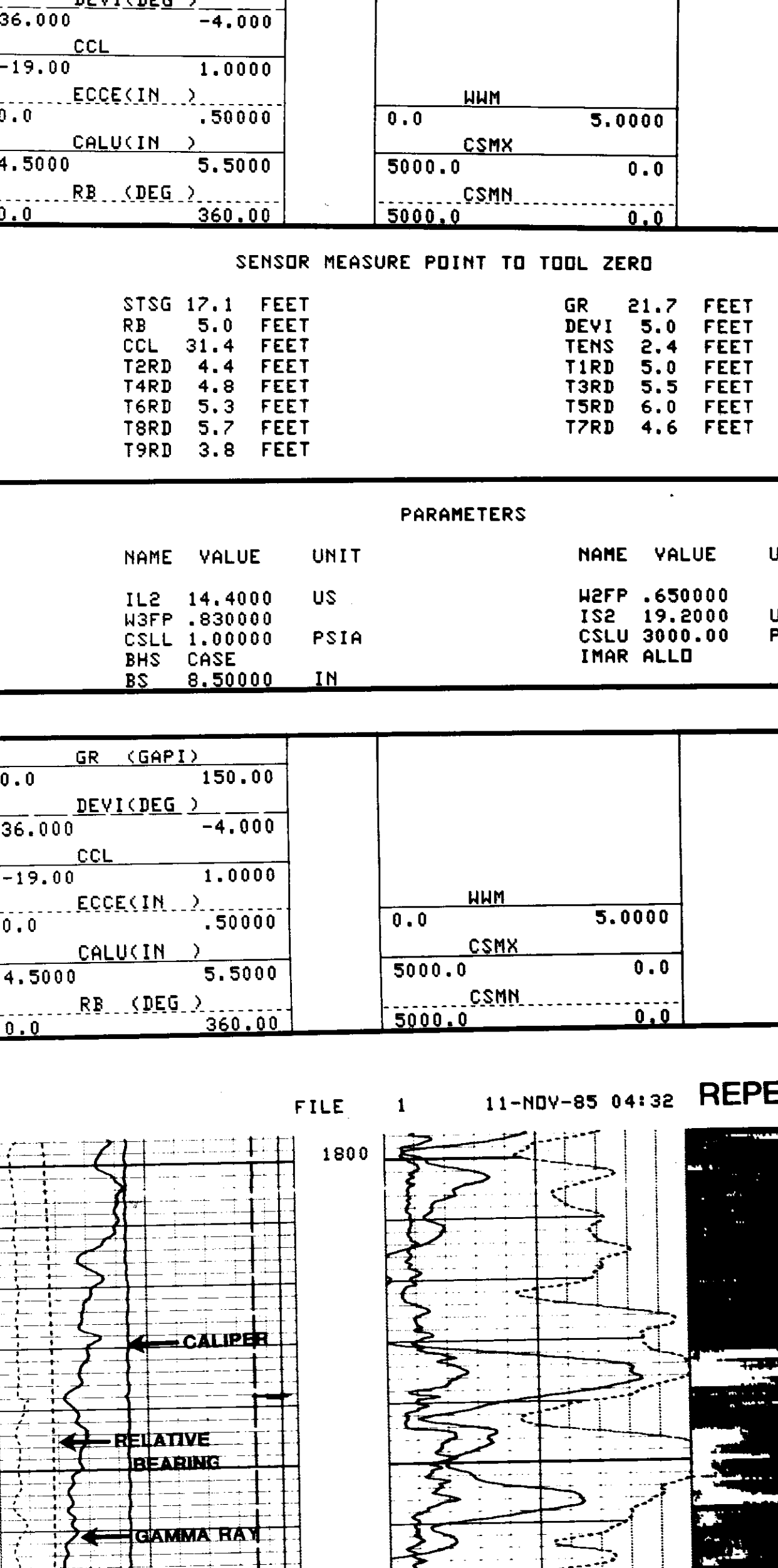
REMARKS:  
 LDG CORRELATED TO SCHLUM. DENS/NEU, NOV. 7, 85.  
 CEMENT TYPE: CLASS "G"  
 HELL WAS CEMENTED ON NOV. 9, 85. THIS PASS IS  
 IS THE SECOND RUN, 12 HOURS LATER THAN THE FIRST.

EQUIPMENT NUMBERS-  
 CEEC-A 808  
 SCC-SA 544  
 CESS-A 720  
 CCSM-AB 257  
 CCC-B 2876  
 CAL-YA 56

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 INTERPRETATIONS AND WE SHALL NOT, EXCEPT IN THE CASE  
 OF GROSS OR WILLFUL 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 AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

FILE 0 11-NOV-85 04:04

GR (GAPI)	150.00	HMM	5.0000
DEVI(DEG)	-4.000	CSMX	0.0
CCL	1.0000	CSMN	5000.0
ECCE(IN)	50000		
CALU(IN)	5.5000		
RB (DEG)	360.00		



FILE 2 11-NOV-85 04:33

GR (GAPI)	150.00	HMM	5.0000
DEVI(DEG)	-4.000	CSMX	0.0
CCL	1.0000	CSMN	5000.0
ECCE(IN)	50000		
CALU(IN)	5.5000		
RB (DEG)	360.00		

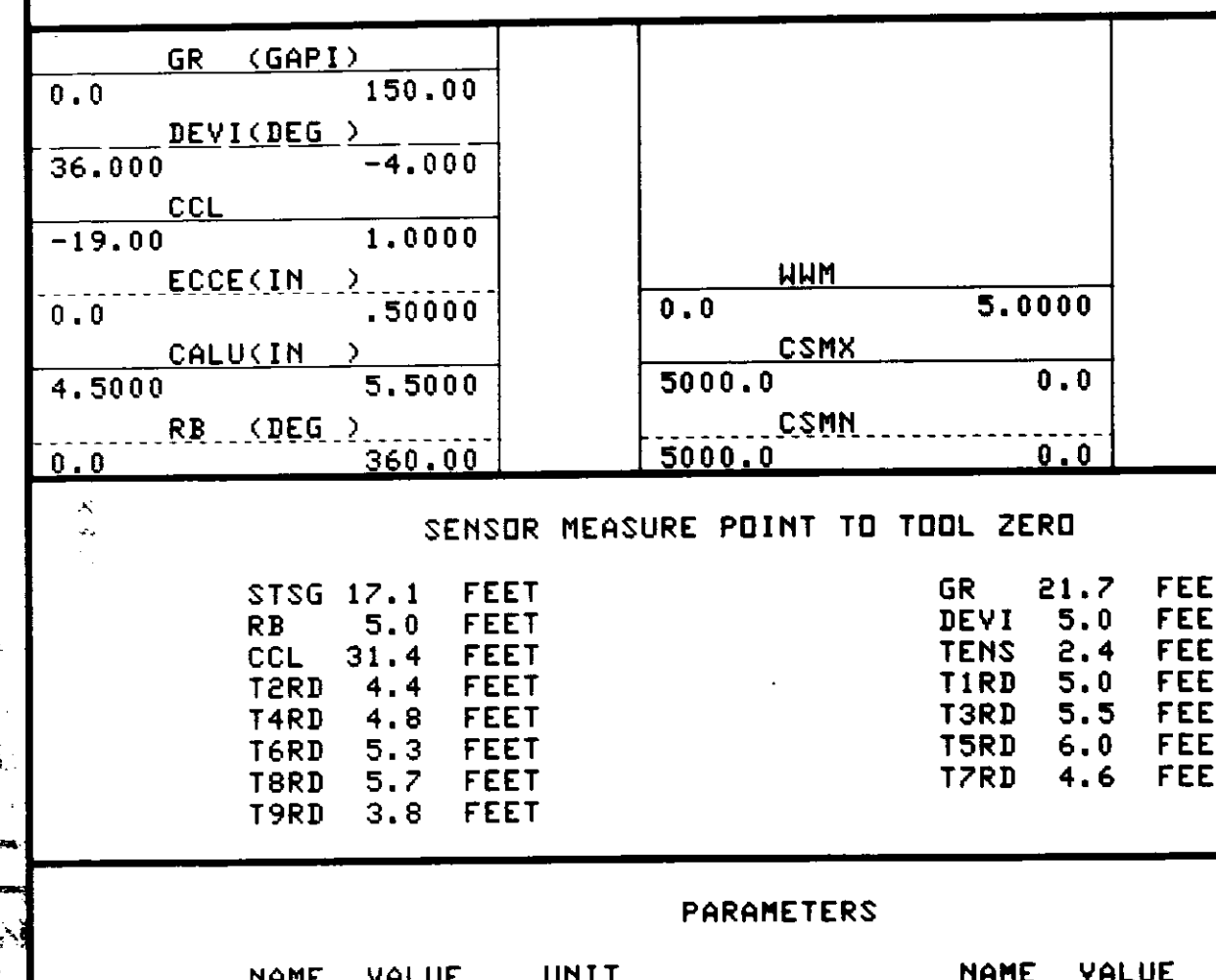
SENSOR MEASURE POINT TO TOOL ZERO

STSG	17.1 FEET	GR	21.7 FEET
RB	5.0 FEET	DEVI	5.0 FEET
CCL	31.4 FEET	TENS	2.4 FEET
T4RD	4.8 FEET	T1RD	5.0 FEET
T6RD	5.3 FEET	T3RD	5.5 FEET
T8RD	5.7 FEET	T5RD	6.0 FEET
T9RD	3.8 FEET	T7RD	4.6 FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
IL2	14.4000	US	W2FP	.650000	
W3FP	.830000		IS2	19.2000	US
CSLL	1.00000	PSIA	CSLU	3000.00	PSIA
BHS	CASE		IMAR	ALLD	
BS	8.50000	IN			

FILE 1 11-NOV-85 04:32 REPEAT SECTION



FILE 1 11-NOV-85 04:26 REPEAT SECTION

GR (GAPI)	150.00	HMM	5.0000
DEVI(DEG)	-4.000	CSMX	0.0
CCL	1.0000	CSMN	5000.0
ECCE(IN)	50000		
CALU(IN)	5.5000		
RB (DEG)	360.00		

SENSOR MEASURE POINT TO TOOL ZERO

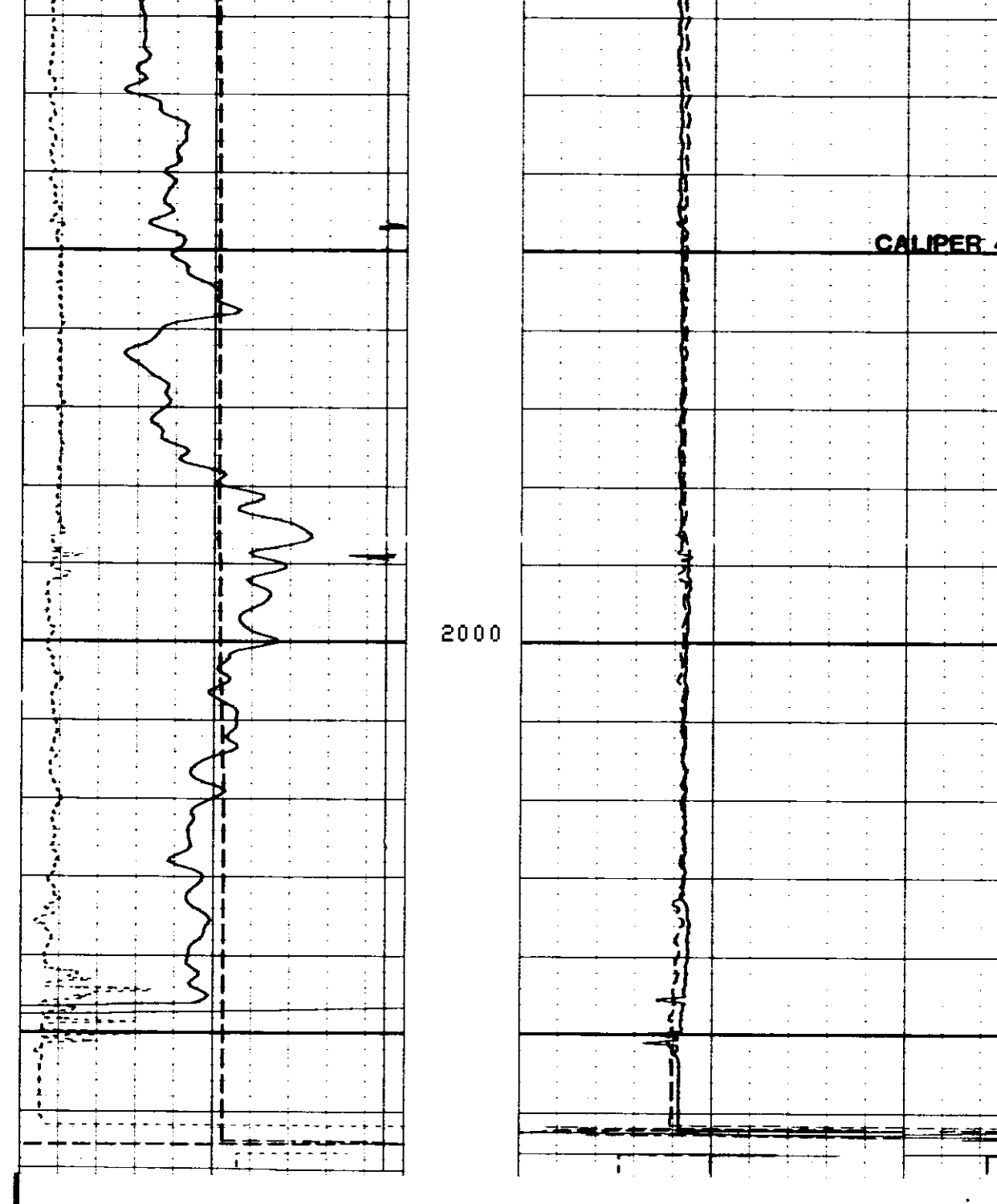
STSG	17.1 FEET	GR	21.7 FEET
RB	5.0 FEET	DEVI	5.0 FEET
CCL	31.4 FEET	TENS	2.4 FEET
T4RD	4.8 FEET	T1RD	5.0 FEET
T6RD	5.3 FEET	T3RD	5.5 FEET
T8RD	5.7 FEET	T5RD	6.0 FEET
T9RD	3.8 FEET	T7RD	4.6 FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
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W3FP	.830000		IS2	19.2000	US
CSLL	1.00000	PSIA	CSLU	3000.00	PSIA
BHS	CASE		IMAR	ALLD	
BS	8.50000	IN			

FILE 2 11-NOV-85 04:13

FVEL(US/F)	150.00	CAL3(IN)	5.5000	CAL2(IN)	5.5000
GR (GAPI)	150.00	CAL1(IN)	5.5000	CAL4(IN)	5.5000
OVAL(IN)	.50000				
CCL	1.0000				



FILE 2 11-NOV-85 04:33

FVEL(US/F)	150.00	CAL3(IN)	5.5000	CAL2(IN)	5.5000
GR (GAPI)	150.00	CAL1(IN)	5.5000	CAL4(IN)	5.5000
OVAL(IN)	.50000				
CCL	1.0000				

SENSOR MEASURE POINT TO TOOL ZERO

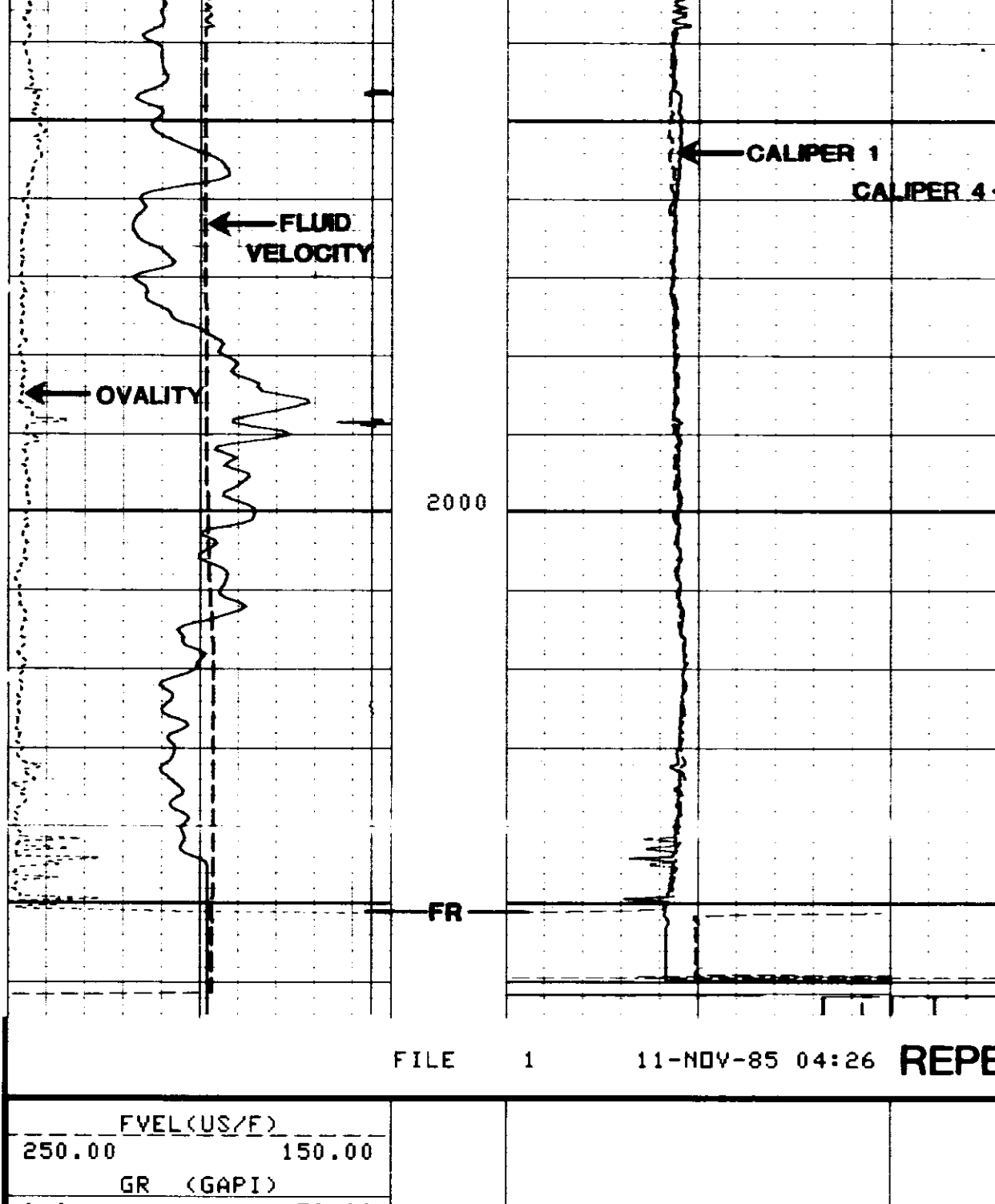
STSG	17.1 FEET	GR	21.7 FEET
RB	5.0 FEET	DEVI	5.0 FEET
CCL	31.4 FEET	TENS	2.4 FEET
T4RD	4.8 FEET	T1RD	5.0 FEET
T6RD	5.3 FEET	T3RD	5.5 FEET
T8RD	5.7 FEET	T5RD	6.0 FEET
T9RD	3.8 FEET	T7RD	4.6 FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
IL2	14.4000	US	W2FP	.650000	
W3FP	.830000		IS2	19.2000	US
CSLL	1.00000	PSIA	CSLU	3000.00	PSIA
BHS	CASE		IMAR	ALLD	
BS	8.50000	IN			

FILE 1 11-NOV-85 04:26 REPEAT SECTION

FVEL(US/F)	150.00	CAL3(IN)	5.5000	CAL2(IN)	5.5000
GR (GAPI)	150.00	CAL1(IN)	5.5000	CAL4(IN)	5.5000
OVAL(IN)	.50000				
CCL	1.0000				



FILE 1 11-NOV-85 04:32

FVEL(US/F)	150.00	CAL3(IN)	5.5000	CAL2(IN)	5.5000
GR (GAPI)	150.00	CAL1(IN)	5.5000	CAL4(IN)	5.5000
OVAL(IN)	.50000				
CCL	1.0000				

SENSOR MEASURE POINT TO TOOL ZERO

STSG	17.1 FEET	GR	21.7 FEET
RB	5.0 FEET	DEVI	5.0 FEET
CCL	31.4 FEET	TENS	2.4 FEET
T4RD	4.8 FEET	T1RD	5.0 FEET
T6RD	5.3 FEET	T3RD	5.5 FEET
T8RD	5.7 FEET	T5RD	6.0 FEET
T9RD	3.8 FEET	T7RD	4.6 FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
IL2	14.4000	US	W2FP	.650000	
W3FP	.830000		IS2	19.2000	US
CSLL	1.00000	PSIA	CSLU	3000.00	PSIA
BHS	CASE		IMAR	ALLD	
BS	8.50000	IN			

FILE 0 11-NOV-85 04:00

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 85/11/11  
 PROGRAM FILE: CET (VERSION 26.2 00/00/00)

SGTL DETECTOR CALIBRATION SUMMARY

MEASURED	BKGD	JIG	CALIBRATED	UNITS
GR	29	185	160	GAPI