Schlumberger

DUAL INDUCTION - SFL

CSU Field Log

COMPANY:	BRENT ENERGY
WELL:	SHOGRIN FEDERAL #1
FIELD:	LAKE VALLEY
COUNTY:	LINCOLN
STATE:	NEVADA
LOCATION:	1535 FSL 1025 FEL
SEC:	16 TWP: 6N RGE: 66E

OTHER SERVICES-
DIL
BHC
LDT
CNL

PERMANENT DATUM: GROUND LEVEL ELEVATIONS-
ELEV. OF PERM. DATUM: 5954.0 F KB: 5967.0 F
LOG MEASURED FROM: KB DF: 5966.0 F
13.0 F ABOVE PERM. DATUM GL: 5954.0 F
DRLG. MEASURED FROM: KB

PROGRAM TAPE NO: 26.2
SERVICE ORDER NO: 420226

DATE:	25 MAR 85
RUN NO:	2
DEPTH-DRILLER:	9180.0 F
DEPTH-LOGGER:	9168.0 F
BTM. LOG INTERVAL:	9162.0 F
TOP LOG INTERVAL:	8137.0 F
CASING-DRILLER:	8137 F
CASING-LOGGER:	8137 F
CASING:	5.5
BIT SIZE:	4 3/4

TYPE FLUID IN HOLE:	DISPERSALL
DENSITY:	8.8 LB/G
VISCOSITY:	45.0 S
PH:	9.5
FLUID LOSS:	8.4 C3
SOURCE OF SAMPLE:	MUD PIT
RM:	2.600 OHMM AT 60.0 DEGF
RMF:	1.500 OHMM AT 60.0 DEGF
RMC:	2.950 OHMM AT 60.0 DEGF
SOURCE RMF/RMC:	MEAS/MEAS
RM AT BHT:	.747 OHMM AT 226. DEGF
RMF AT BHT:	.431 OHMM AT 226. DEGF
RMC AT BHT:	.848 OHMM AT 226. DEGF
TIME CIRC. STOPPED:	0600
TIME LOGGER ON BTM.:	10 30
MAX. REC. TEMP:	226.0 DEGF
LOGGING UNIT NO:	8174
LOGGING UNIT LOC:	FARMINGTON
RECORDED BY:	MAURER
WITNESSED BY:	MR. DUNWOODY

REMARKS:

CREW QUINN KIRKLAND

EQUIPMENT NUMBERS-

DRS	3903	NSC	991	CNC	359	SGC	298
DIS	1598	DIC	55	SGC	3407	SLS	1234
SLC	159						

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 5 25-MAR-85 11:44
DATA ACQUIRED 00- -00 00:00

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 85/03/25
PROGRAM FILE: DILGR (VERSION 26.2 00/00/00)

DITD TOOL CHECK

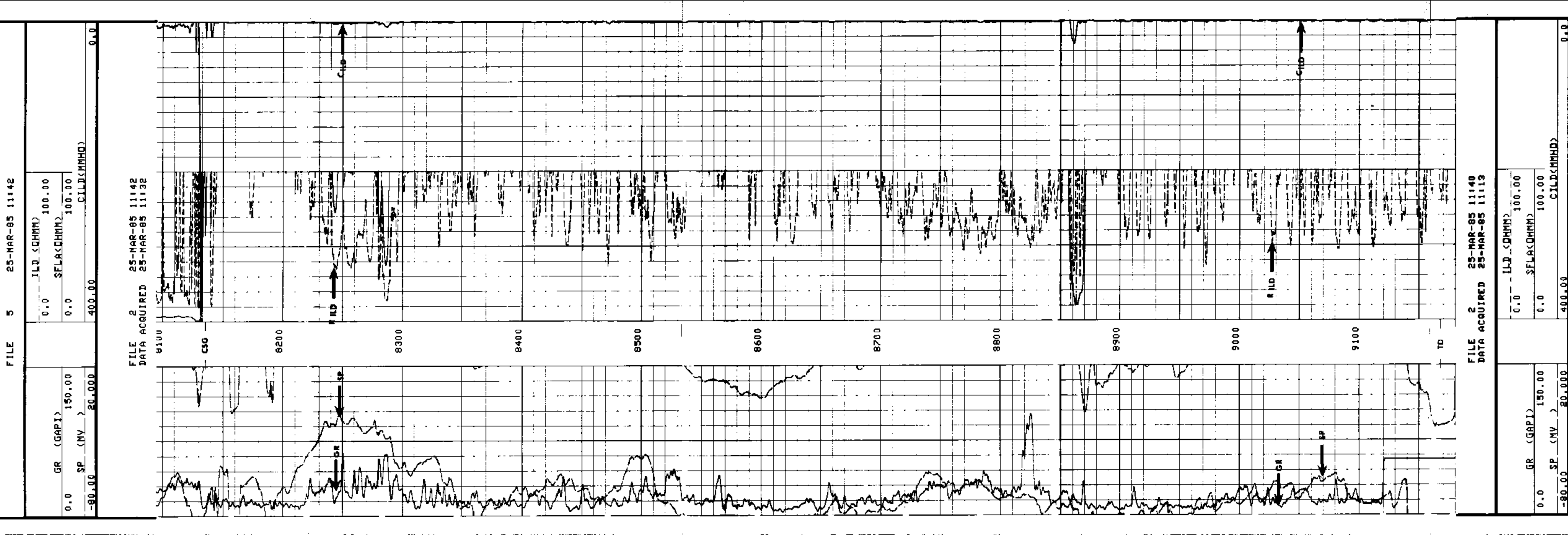
	ZERO BEFORE	ZERO AFTER	PLUS BEFORE	PLUS AFTER	UNITS
ILD	0.0	.0	499.8	503.7	MMHO
ILM	0.0	-.3	500.8	512.4	MMHO
SFL	0.0	.2	500.0	499.5	MMHO

ILD SONDE ERROR CORRECTION : 8.0 MMHO
ILM SONDE ERROR CORRECTION : 5.0 MMHO

FILE 5 25-MAR-85 11:42

ILD (OHMM) 0.0 100.00
SFLA(OHMM) 0.0 100.00
CILD(MMHO) 400.00 0.0
GR (GAPI) 0.0 150.00
SP (MV) -80.00 20.000

FILE 2 25-MAR-85 11:42
DATA ACQUIRED 25-MAR-85 11:32



FILE 2 25-MAR-85 11:40
DATA ACQUIRED 25-MAR-85 11:13

ILD (OHMM) 0.0 100.00
SFLA(OHMM) 0.0 100.00
CILD(MMHO) 400.00 0.0
GR (GAPI) 0.0 150.00
SP (MV) -80.00 20.000

SENSOR MEASURE POINT TO TOOL ZERO

CBL	37.0	FEET	AMPL	37.0	FEET
TT3	33.3	FEET	TT4	32.3	FEET
TT1	36.0	FEET	TT2	37.0	FEET
GR	62.0	FEET	SRAT	34.5	FEET
ILD	9.4	FEET	CALI	54.1	FEET
ILM	5.7	FEET	SFL	6.4	FEET
SPAR	2.5	FEET	SP	2.5	FEET
NDIS	28.8	FEET	TENS	2.5	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
WSV1	WF1		DWS	16	
DSIN	5	US	DDEL	200	US
CDTS	100.000		DWCO	512	
DTF	189.000	US/F	DTM	47.6000	US/F
SBR	1.00000	OHMM	DSEC	8.00000	MMHO
FEXP	2.00000		MSEC	5.00000	MMHO
BHS	OPEN		FNUM	1.00000	
DO	0.0	F	BS	4.75000	IN
PP	NORM				

TAPE NOT MADE

TENS(LB) 0.0 10000.
ILD (OHMM) .20000 2000.0
ILM (OHMM) .20000 2000.0
SFLU(OHMM) .20000 2000.0
GR (GAPI) 0.0 150.00
SP (MV) -80.00 20.000

FILE 2 25-MAR-85 11:32

FILE 2 25-MAR-85 11:11

TENS(LB) 0.0 10000.
ILD (OHMM) .20000 2000.0
ILM (OHMM) .20000 2000.0
SFLU(OHMM) .20000 2000.0
GR (GAPI) 0.0 150.00
SP (MV) -80.00 20.000

SENSOR MEASURE POINT TO TOOL ZERO

CBL	37.0	FEET	AMPL	37.0	FEET
TT3	33.3	FEET	TT4	32.3	FEET
TT1	36.0	FEET	TT2	37.0	FEET
GR	62.0	FEET	SRAT	34.5	FEET
ILD	9.4	FEET	CALI	54.1	FEET
ILM	5.7	FEET	SFL	6.4	FEET
SPAR	2.5	FEET	SP	2.5	FEET
NDIS	28.8	FEET	TENS	2.5	FEET

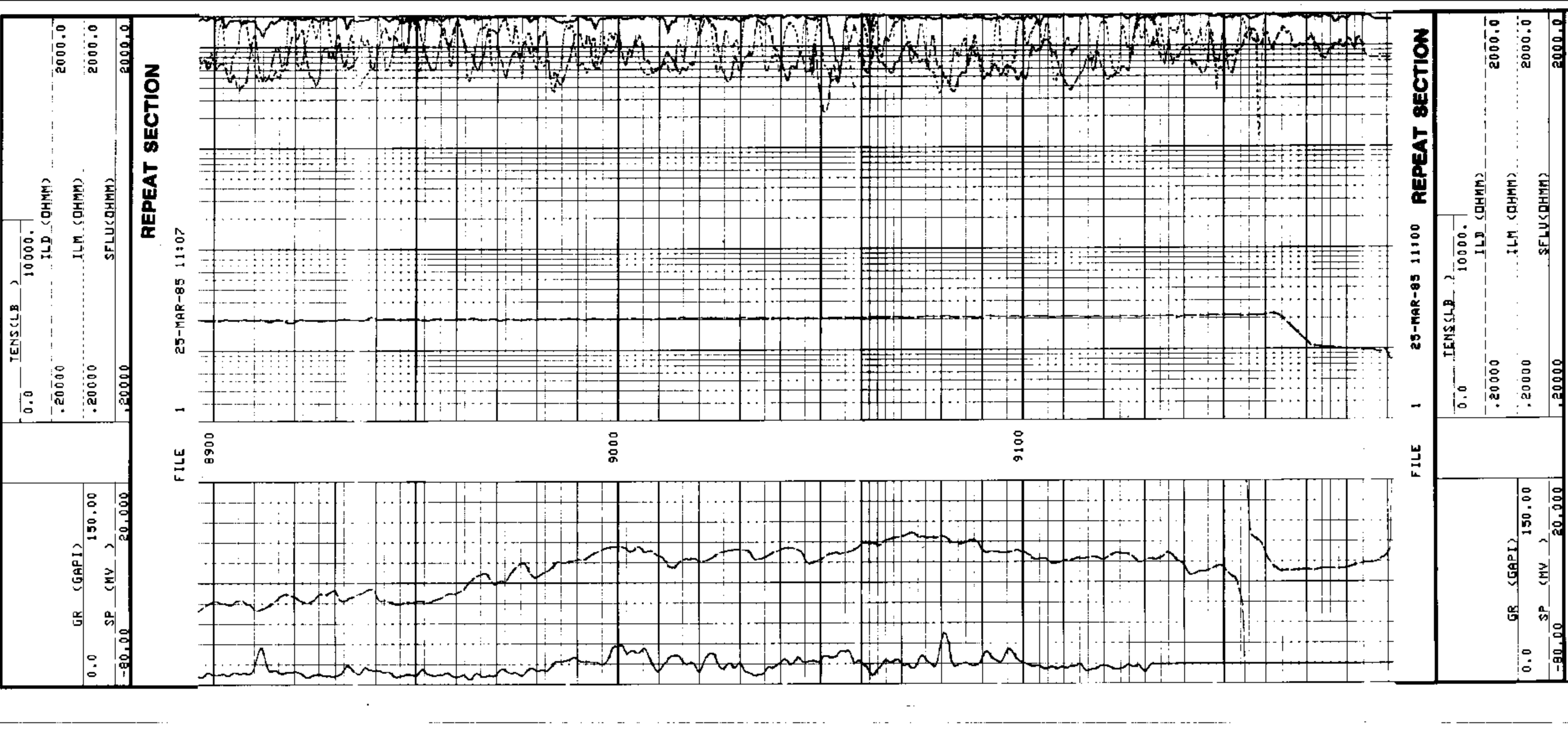
PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
WSV1	WF1		DWS	16	
DSIN	5	US	DDEL	200	US
CDTS	100.000		DWCO	512	
DTF	189.000	US/F	DTM	47.6000	US/F
SBR	1.00000	OHMM	DSEC	8.00000	MMHO
FEXP	2.00000		MSEC	5.00000	MMHO
BHS	OPEN		FNUM	1.00000	
BS	4.75000	IN			

TENS(LB) 0.0 10000.
ILD (OHMM) .20000 2000.0
ILM (OHMM) .20000 2000.0
SFLU(OHMM) .20000 2000.0
GR (GAPI) 0.0 150.00
SP (MV) -80.00 20.000

REPEAT SECTION

FILE 1 25-MAR-85 11:07



FILE 1 25-MAR-85 11:00

REPEAT SECTION

TENS(LB) 0.0 10000.
ILD (OHMM) .20000 2000.0
ILM (OHMM) .20000 2000.0
SFLU(OHMM) .20000 2000.0
GR (GAPI) 0.0 150.00
SP (MV) -80.00 20.000

SENSOR MEASURE POINT TO TOOL ZERO

CBL	37.0	FEET	AMPL	37.0	FEET
TT3	33.3	FEET	TT4	32.3	FEET
TT1	36.0	FEET	TT2	37.0	FEET
GR	62.0	FEET	SRAT	34.5	FEET
ILD	9.4	FEET	CALI	54.1	FEET
ILM	5.7	FEET	SFL	6.4	FEET
SPAR	2.5	FEET	SP	2.5	FEET
NDIS	28.8	FEET	TENS	2.5	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
WSV1	WF1		DWS	16	
DSIN	5	US	DDEL	200	US
CDTS	100.000		DWCO	512	
DTF	189.000	US/F	DTM	47.6000	US/F
SBR	1.00000	OHMM	DSEC	8.00000	MMHO
FEXP	2.00000		MSEC	5.00000	MMHO
BHS	OPEN		FNUM	1.00000	
BS	4.75000	IN			

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 85/03/25
PROGRAM FILE: DILGR (VERSION 26.2 00/00/00)

DITD ELECTRONICS CALIBRATION SUMMARY

	MEASURED ZERO	MEASURED PLUS	CALIBRATED ZERO	CALIBRATED PLUS	UNITS
ILD	1.7	562.7	0.0	499.8	MMHO
ILM	3.3	514.8	0.0	500.8	MMHO
SFL	-3.0	518.0	0.0	500.0	MMHO

ILD SONDE ERROR CORRECTION : 3.2 MMHO
ILM SONDE ERROR CORRECTION : 5.5 MMHO

SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED BKGD	MEASURED JIG	CALIBRATED	UNITS
GR	50	193	165	GAPI

MCDB CALIPER CALIBRATION SUMMARY

	MEASURED SMALL	MEASURED LARGE	CALIBRATED SMALL	CALIBRATED LARGE	UNITS
CALI	7.8	10.8	8.0	12.0	IN

FILE 3 25-MAR-85 10:46

SHOP SUMMARY

PERFORMED: 85/03/21
PROGRAM FILE: SHOP (VERSION 26.2 83/11/17)

DITD ELECTRONICS CALIBRATION SUMMARY

	TEST LOOP CALIBRATION MEASURED ZERO	MEASURED PLUS	CALIBRATED ZERO	CALIBRATED PLUS	TOOL CHECK CALIBRATED ZERO	CALIBRATED PLUS	UNITS
ILD	-1.7	563.1	0.0	500.0	0.0	500.0	MMHO
ILM	-3.5	515.7	0.0	500.0	0.0	500.7	MMHO

ILD SONDE ERROR CORRECTION : 3.2 MMHO
ILM SONDE ERROR CORRECTION : 5.5 MMHO

(IS:1598, IC:55)