Schlumberger

CSU

DUAL INDUCTION SFL 5"

COMPANY: REICHHOLD ENERGY CORPORATION
WELL: CROWN ZELLERBACH #12-1
FIELD: MIST
COUNTY: COLUMBIA
STATE: OREGON
LOCATION: 1902' SOUTH & 1001' EAST FROM THE NW CORNER OF
SEC: 1 TWP: 5N RGE: 5W

OTHER SERVICES-
BHC
HDT

RECEIVED
AUG 15 1985
DOGAMI
Portland

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 791.1 F
LOG MEASURED FROM: KB
11.4 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 802.5 F
DF:
GL: 791.1 F

DATE: 25 JUN 85
RUN NO: 1

PROGRAM TAPE NO: 26.2
SERVICE ORDER NO: 432239

DEPTH-DRILLER: 1721.0 F
DEPTH-LOGGER: 1720.0 F
BTM. LOG INTERVAL: 1714.0 F
TOP LOG INTERVAL: 402.0 F
CASING-DRILLER: 403 F
CASING-LOGGER: 402 F
CASING: 8 5/8
BIT SIZE: 7 7/8

TYPE FLUID IN HOLE: LIGNOSULFONATE
DENSITY: 11.2 LB/G
VISCOSITY: 52.0 S
PH: 10.0
FLUID LOSS: 7.2 C3
SOURCE OF SAMPLE: CIRC.
RM: 1.330 OHMM AT 89.0 DEGF
RMF: 1.020 OHMM AT 83.0 DEGF
RMC: 1.560 OHMM AT 86.0 DEGF
SOURCE RMF/RMC: MEAS./MEAS.
RM AT BHT: 1.204 OHMM AT 99.0 DEGF
RMF AT BHT: .866 OHMM AT 99.0 DEGF
RMC AT BHT: 1.368 OHMM AT 99.0 DEGF

TIME CIRC. STOPPED: 1830
TIME LOGGER ON BTM.: 2104

MAX. REC. TEMP: 99.0 DEGF

LOGGING UNIT NO: 8126
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: ANDERSEN
WITNESSED BY: THOMAS

REMARKS:

CMEZ USED
1 1/2" STANDOFF USED
INDUCTION AND SONIC RUN IN COMBINATION

EQUIPMENT NUMBERS-

IEM 605 SLM 214 MCD 1186 DIC 1386
DIS 1342 SLS 1082 SLC 1259

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 6 25-JUN-85 21:46
DATA ACQUIRED 25-JUN-85 20:37

RWA (OHMM) 0.0 – 3.0000	ILD (OHMM) .20000 – 2000.0	TENS(LB) 10000. – 0.0
SP (MV) -100.0 – 0.0	ILM (OHMM) .20000 – 2000.0	
	SFLU(OHMM) .20000 – 2000.0	

FILE 11 25-JUN-85 21:32

FILE 11 25-JUN-85 21:03

RWA (OHMM) 0.0 – 3.0000	ILD (OHMM) .20000 – 2000.0	TENS(LB) 10000. – 0.0
SP (MV) -100.0 – 0.0	ILM (OHMM) .20000 – 2000.0	
	SFLU(OHMM) .20000 – 2000.0	

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
CALI	56.1 FEET	SRAT	34.5 FEET
SFL	6.4 FEET	ILD	9.4 FEET
SP	2.5 FEET	ILM	5.7 FEET
TENS	2.5 FEET	SPAR	2.5 FEET
NOIS	28.8 FEET		

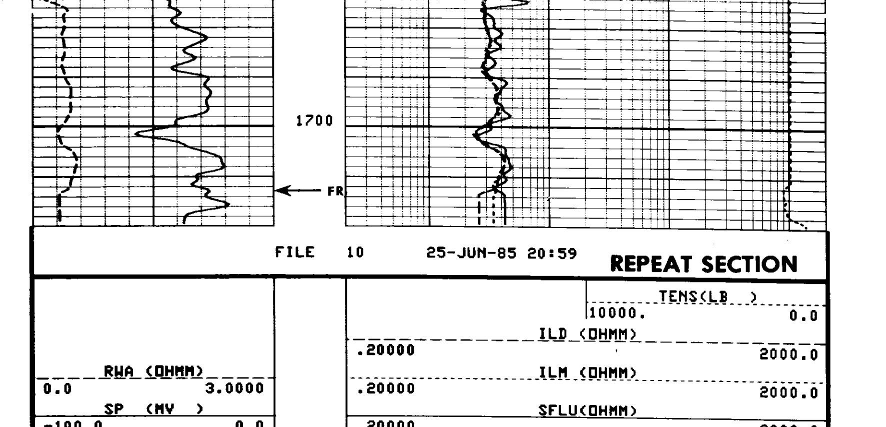
PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
WSV1	WF1		DWS	16	
DSIN	5	US	DDEL	200	US
CDTS	140.000		DWCO	512	
DTF	189.000	US/F	DTM	56.0000	US/F
SBR	1.00000	OHMM	DSEC	6.10000	MMHO
FPHI	SPHI		MSEC	7.30000	MMHO
BS	7.87500	IN	BHS	OPEN	
SPDR	.0050000				

RWA (OHMM) 0.0 – 3.0000	ILD (OHMM) .20000 – 2000.0	TENS(LB) 10000. – 0.0
SP (MV) -100.0 – 0.0	ILM (OHMM) .20000 – 2000.0	
	SFLU(OHMM) .20000 – 2000.0	

REPEAT SECTION

FILE 10 25-JUN-85 21:02



FILE 10 25-JUN-85 20:59 **REPEAT SECTION**

RWA (OHMM) 0.0 – 3.0000	ILD (OHMM) .20000 – 2000.0	TENS(LB) 10000. – 0.0
SP (MV) -100.0 – 0.0	ILM (OHMM) .20000 – 2000.0	
	SFLU(OHMM) .20000 – 2000.0	

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
CALI	56.1 FEET	SRAT	34.5 FEET
SFL	6.4 FEET	ILD	9.4 FEET
SP	2.5 FEET	ILM	5.7 FEET
TENS	2.5 FEET	SPAR	2.5 FEET
NOIS	28.8 FEET		

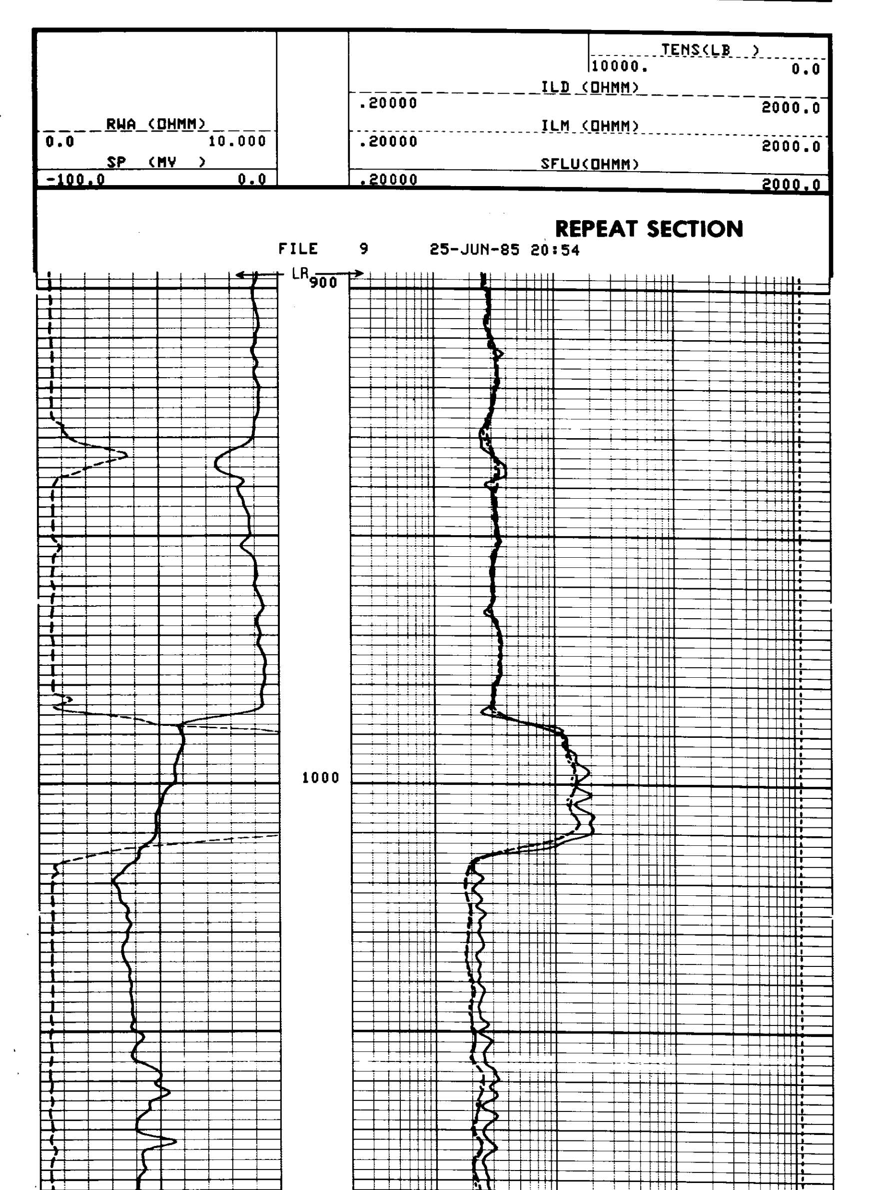
PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
WSV1	WF1		DWS	16	
DSIN	5	US	DDEL	200	US
CDTS	140.000		DWCO	512	
DTF	189.000	US/F	DTM	56.0000	US/F
SBR	1.00000	OHMM	DSEC	6.10000	MMHO
FPHI	SPHI		MSEC	7.30000	MMHO
BS	7.87500	IN	BHS	OPEN	
SPDR	.0050000				

RWA (OHMM) 0.0 – 10.000	ILD (OHMM) .20000 – 2000.0	TENS(LB) 10000. – 0.0
SP (MV) -100.0 – 0.0	ILM (OHMM) .20000 – 2000.0	
	SFLU(OHMM) .20000 – 2000.0	

REPEAT SECTION

FILE 9 25-JUN-85 20:54



FILE 9 25-JUN-85 20:49 **REPEAT SECTION**

RWA (OHMM) 0.0 – 10.000	ILD (OHMM) .20000 – 2000.0	TENS(LB) 10000. – 0.0
SP (MV) -100.0 – 0.0	ILM (OHMM) .20000 – 2000.0	
	SFLU(OHMM) .20000 – 2000.0	

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
CALI	56.1 FEET	SRAT	34.5 FEET
SFL	6.4 FEET	ILD	9.4 FEET
SP	2.5 FEET	ILM	5.7 FEET
TENS	2.5 FEET	SPAR	2.5 FEET
NOIS	28.8 FEET		

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
WSV1	WF1		DWS	16	
DSIN	5	US	DDEL	200	US
CDTS	140.000		DWCO	512	
DTF	189.000	US/F	DTM	56.0000	US/F
SBR	1.00000	OHMM	DSEC	6.10000	MMHO
FPHI	SPHI		MSEC	7.30000	MMHO
BS	7.87500	IN	BHS	OPEN	

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 85/06/25
PROGRAM FILE: ISN (VERSION 26.2 83/11/17)

DITD ELECTRONICS CALIBRATION SUMMARY

	MEASURED ZERO	MEASURED PLUS	CALIBRATED ZERO	CALIBRATED PLUS	UNITS
ILD	.1	538.8	0.0	494.9	MMHO
ILM	.0	524.9	0.0	496.0	MMHO
SFL	.3	533.0	0.0	500.0	MMHO

ILD SONDE ERROR CORRECTION : 6.1 MMHO
ILM SONDE ERROR CORRECTION : 7.3 MMHO

MCDB CALIPER CALIBRATION SUMMARY

	MEASURED SMALL	MEASURED LARGE	CALIBRATED SMALL	CALIBRATED LARGE	UNITS
CALI	6.3	12.8	6.0	12.0	IN

FILE 8 25-JUN-85 20:45
AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 85/06/25
PROGRAM FILE: ISN (VERSION 26.2 83/11/17)

DITD TOOL CHECK

	ZERO BEFORE	ZERO AFTER	PLUS BEFORE	PLUS AFTER	UNITS
ILD	0.0	.0	494.9	494.9	MMHO
ILM	0.0	-.0	496.0	495.5	MMHO
SFL	0.0	-.0	500.0	494.3	MMHO

ILD SONDE ERROR CORRECTION : 6.1 MMHO
ILM SONDE ERROR CORRECTION : 7.3 MMHO

FILE 13 25-JUN-85 21:35

SHOP SUMMARY

PERFORMED: 85/06/03
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	TOOL CHECK CALIBRATED PLUS	UNITS
ILD	-5.9	533.0	0.0	500.0	0.0	495.2	MMHO
ILM	-8.0	518.8	0.0	500.0	0.0	496.0	MMHO

ILD SONDE ERROR CORRECTION : 6.1 MMHO
ILM SONDE ERROR CORRECTION : 7.3 MMHO

(IS:1342, IC:1386)