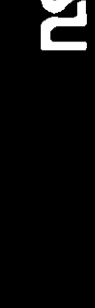


DUAL INDUCTION SFL / SONIC 2"



COMPANY: NARRAH AND HEAGANT
 WELL: JEWELL #1-23
 FIELD: JEWELL
 COUNTY: CLATSOP
 STATE: OREGON
 LOCATION: 704' NORTH & 933' EAST
 OF THE S 1/4 CORNER
 T1M1 S1N
 SEC1: E3
 RECEIVED - FLD JUN 27 1985
 DATE: JUN 27 1985
 TIME: 11:31 AM
 BY: [Signature]

PERMANENT DATUM: GL 430.9 F
 ELEVATIONS: K81 462.3 F
 ELEVATIONS: D11 430.9 F
 DRLG. MEASURED FROM: K81 430.9 F
 DATE: 22 APR 85
 RUN NO: 1

DEPTH-DRILLER: 3190.0 F
 DEPTH-LOGGERS: 3188.0 F
 TOP LOG INTERVAL: 499.0 F
 CASING-DRILLER: 499 F
 CASING-LOGGERS: 499 F
 CASING: 8 5/8
 BIT SIZE: 7 7/8

OTHER SERVICES-
 BHC

PROGRAM: TAPED
 TAPE NO: 8057
 REE: SACRAMENTO
 SERVICE: ANDERSEN
 DATE: WALKER
 483541

TYPE FLUID IN HOLE: LIGNSULFONATE
 DENSITY: 9.5 LB/G
 VISCOSITY: 43.0 S
 PH: 10.5
 FLUID LOSS: 5.7 C3
 SOURCE OF SAMPLE: CIRC.
 RM: 1.940 DHMM AT 64.0 DEGF
 RMF: 2.190 DHMM AT 63.0 DEGF
 RMC: 2.330 DHMM AT 58.0 DEGF
 SOURCE RMF/RMC: MEAS. /MEAS.
 RM AT BHT: 1.275 DHMM AT 101. DEGF
 RMF AT BHT: 1.419 DHMM AT 101. DEGF
 RMC AT BHT: 1.402 DHMM AT 101. DEGF
 TIME CIRC. STOPPED: 0530
 TIME LOGGER ON BHT: 0912
 MAX. REC. TEMP: 101.0 DEGF
 LOGGING UNIT NO: 8057
 LOGGING UNIT LDC: SACRAMENTO
 RECORDED BY: ANDERSEN
 WITNESSED BY: WALKER

REMARKS:

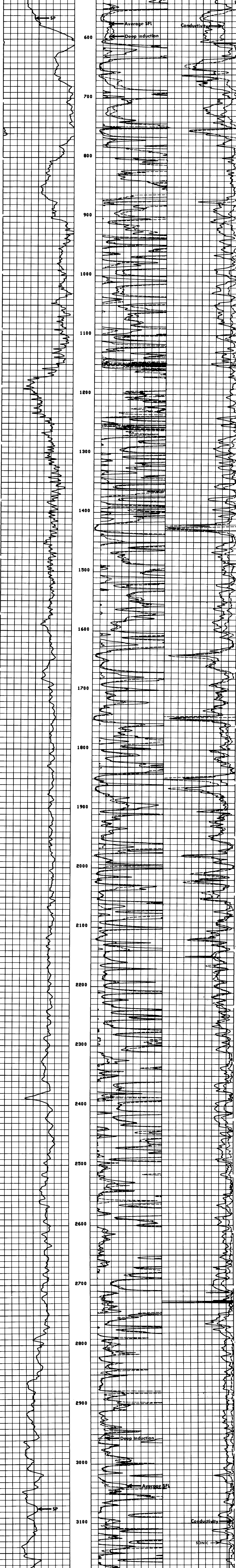
EQUIPMENT NUMBERS-
 IEM 232 SLM 383 DIS 1181 DIC 217
 SLS 1140

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 103 22-APR-85 14146
 DATA ACQUIRED 22-APR-85 11:31

SP (MV) -80.00 20.000
 ILD (DHMM) 0.0 100.00 200.00
 SFLA(DHMM) 0.0 100.00 150.00
 CILD(MMHQ) 0.0
 DT (US/F) 50.000

FILE 104 22-APR-85 14130
 DATA ACQUIRED 22-APR-85 10:02



FILE 104 22-APR-85 14122
 DATA ACQUIRED 22-APR-85 11:02

SP (MV) -80.00 20.000
 ILD (DHMM) 0.0 100.00 200.00
 SFLA(DHMM) 0.0 100.00 150.00
 CILD(MMHQ) 0.0
 DT (US/F) 50.000

SENSOR MEASURE POINT TO TOOL ZERO
 CBL 43.9 FEET
 TTS 40.1 FEET
 TT1 42.9 FEET
 CALI 31.8 FEET
 SFL 6.4 FEET
 SP 2.5 FEET
 TENS 2.5 FEET
 NDIS 35.6 FEET
 AMPL 43.9 FEET
 TT4 39.1 FEET
 TT2 43.9 FEET
 SRAT 41.4 FEET
 ILD 9.4 FEET
 ILM 5.7 FEET
 SPAR 2.5 FEET

PARAMETERS
 NAME VALUE UNIT
 MSV1 MF1
 DSIM 5 US
 CDTS 100.000 US/F
 DTF 189.000 US/F
 SBR 1.00000
 FPHI SPHI
 BS 8.62500 IN
 BS 0.0 F
 PP NORM
 DMS 16
 DDEL 200 US
 DMCD 512
 DTM 56.0000 US/F
 DSEC 4.20000 MMHD
 HSEC .200000
 BHS OPEN
 DOE 0.0 F