Watzek 22-19-66

Schlumberger

RAW DIPMETER 5"

CSU

COMPANY: DIAMOND SHAMROCK CORPORATION

WELL: WATZEK #22-19

FIELD: WILDCAT
COUNTY: CLATSOP
STATE: OREGON

CONFIDENTIAL

LOCATION: 1945' SOUTH; 2151' EAST
OF NORTHWEST CORNER
SEC: 19 TWP: 6N RGE: 6W

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 636.0 '
LOG MEASURED FROM: KB
9.0 ' ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 645.0 '
DF:
GL: 636.0 '

OTHER SERVICES-
DIL
BHC
FDC/CNL/GR
CIS
CST

PROGRAM
TAPE NO:
22.4
SERVICE
ORDER NO:
383582

DATE: 3 MAR 83
RUN NO: 1

DEPTH-DRILLER: 5195.0 '
DEPTH-LOGGER: 5180.0 '
BTM. LOG INTERVAL: 5177.0 '
TOP LOG INTERVAL: 1028.0 '

CASING-DRILLER: 1028 '
CASING-LOGGER: 1028 '
CASING: 9 5/8"

BIT SIZE: 8 3/4"

TYPE FLUID IN HOLE: LOW SOLIDS NON DISPERSED
DENSITY: 10.7 LB/G
VISCOSITY: 55.0 S
PH: 10.1
FLUID LOSS: 5.2 C3
SOURCE OF SAMPLE: FLOWLINE
RM: 1.280 OHMM AT 74.0 DEGF
RMF: 2.190 OHMM AT 52.0 DEGF
RMC: 1.680 OHMM AT 52.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 0.871 OHMM AT 112. DEGF
RMF AT BHT: 1.085 OHMM AT 112. DEGF
RMC AT BHT: 0.832 OHMM AT 112. DEGF

TIME CIRC. STOPPED: 1530 3/3
TIME LOGGER ON BTM.: 2100 3/3

MAX. REC. TEMP: 112.0 DEGF

LOGGING UNIT NO: 8126
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: BURNISON
WITNESSED BY: WILSON

REMARKS: OVERLAP RUN 2591 — 2205

EQUIPMENT NUMBERS-

HDS-D 1954 HDE-CB 1879 HDM-F 1726 DAM-A 1891

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

CHANGED PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
VHOL	817.069	F3			

DEVI(DEG)
-1.000 9.0000

RB (DEG)
-40.00 360.00

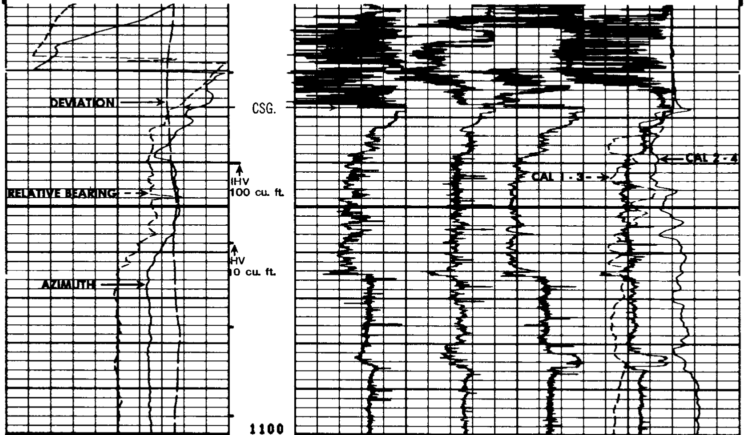
AZIM(DEG)
-40.00 360.00

C2 (IN)
26.000 6.0000

C1 (IN)
26.000 6.0000

FILE

6



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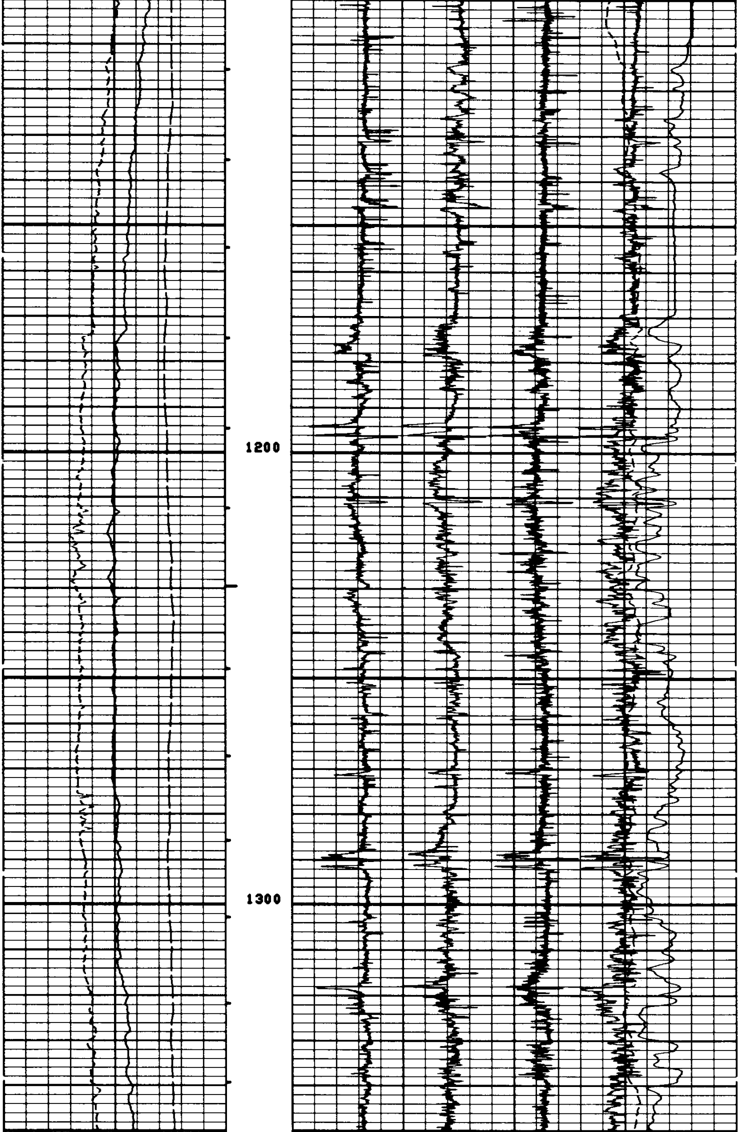

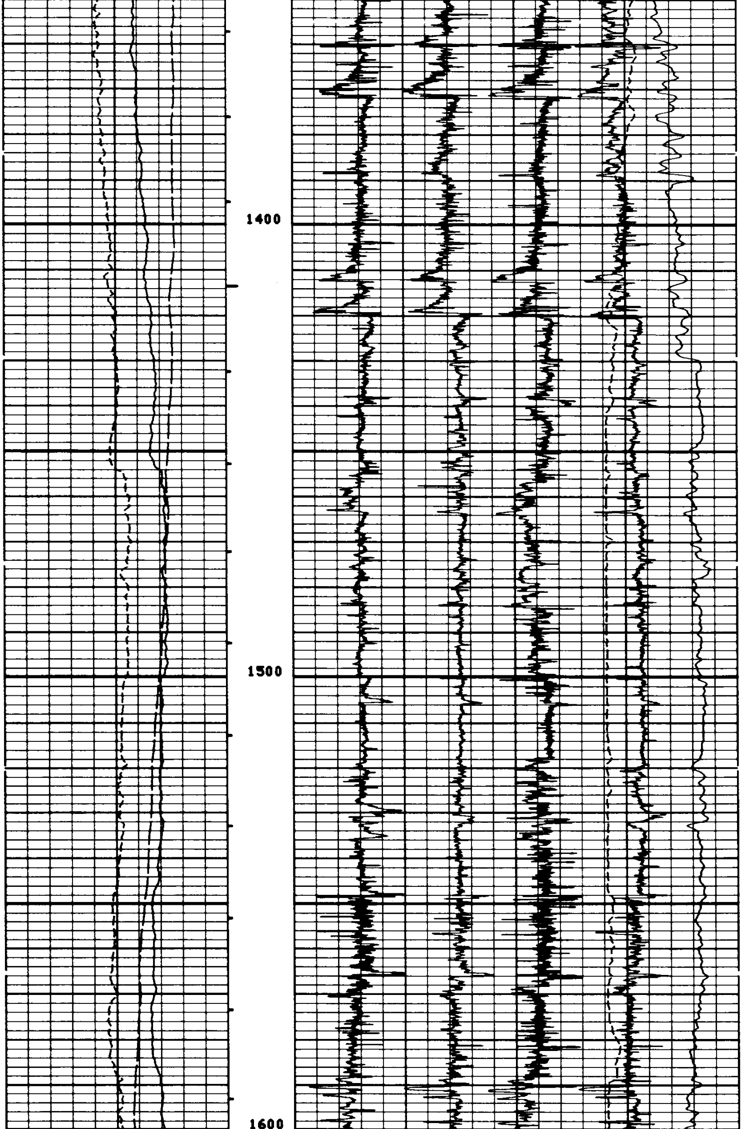

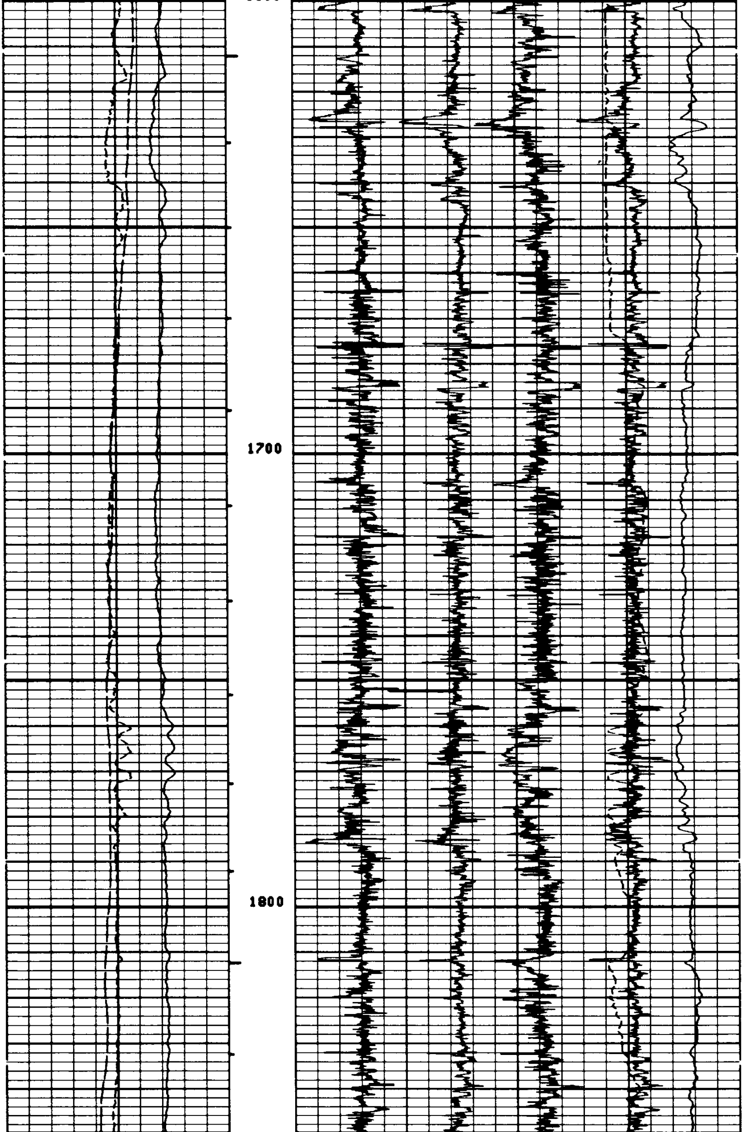

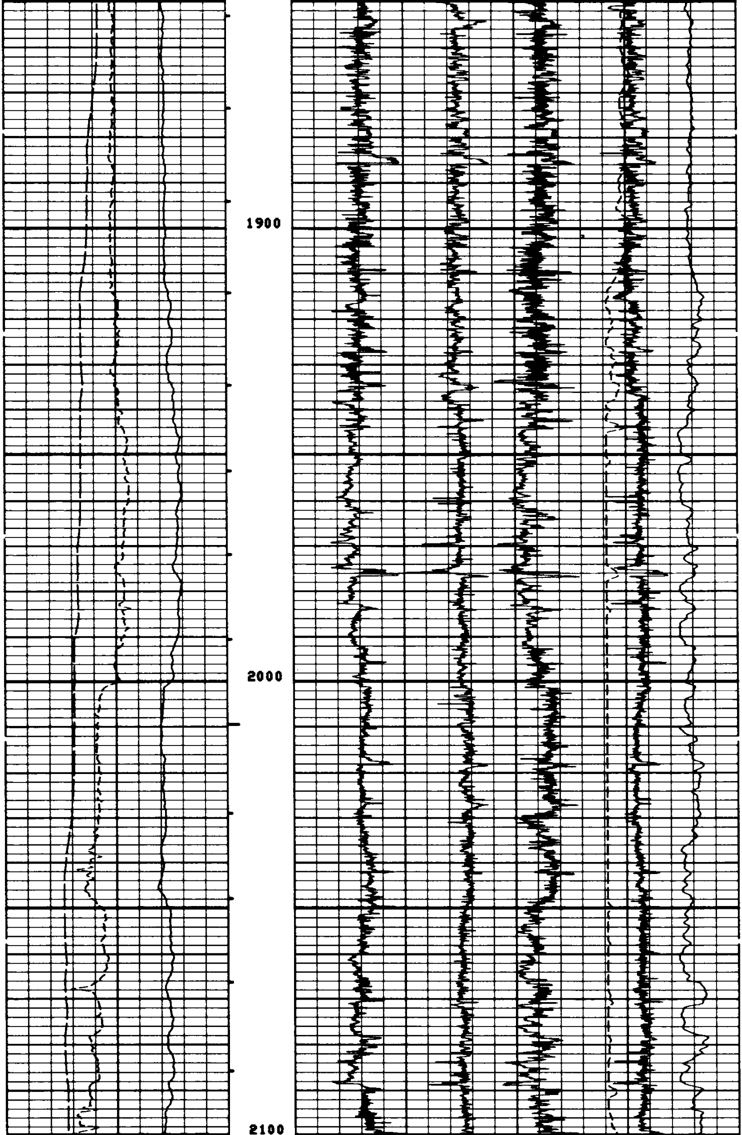

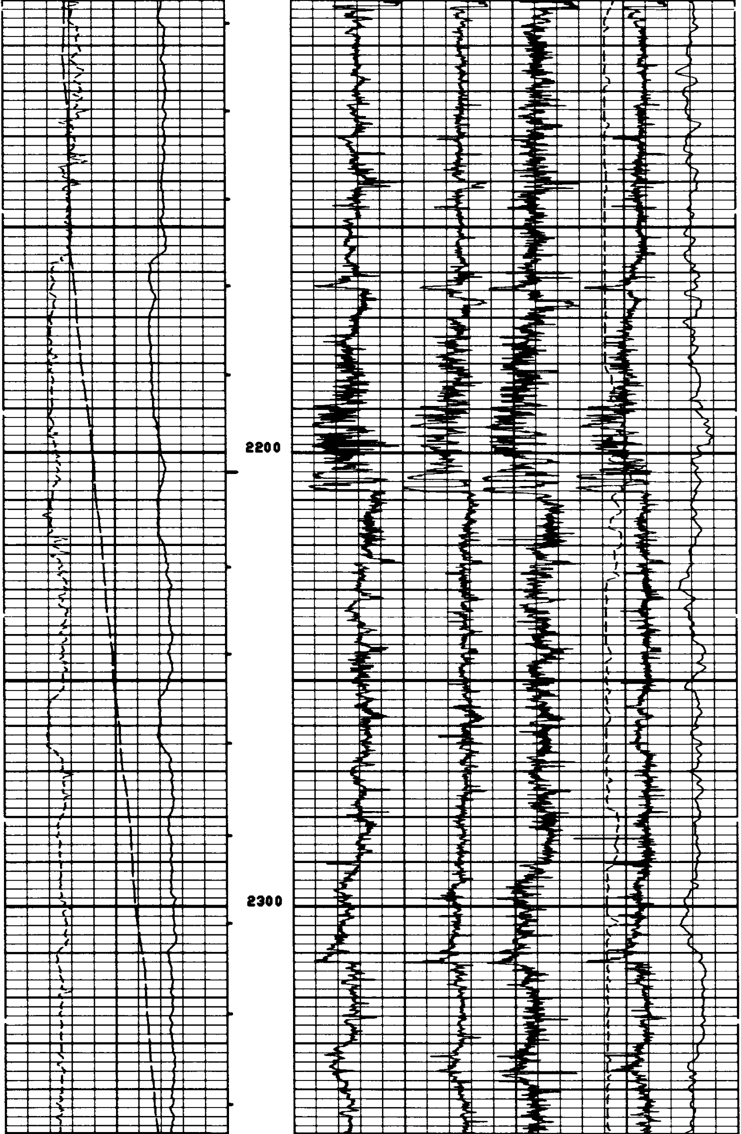

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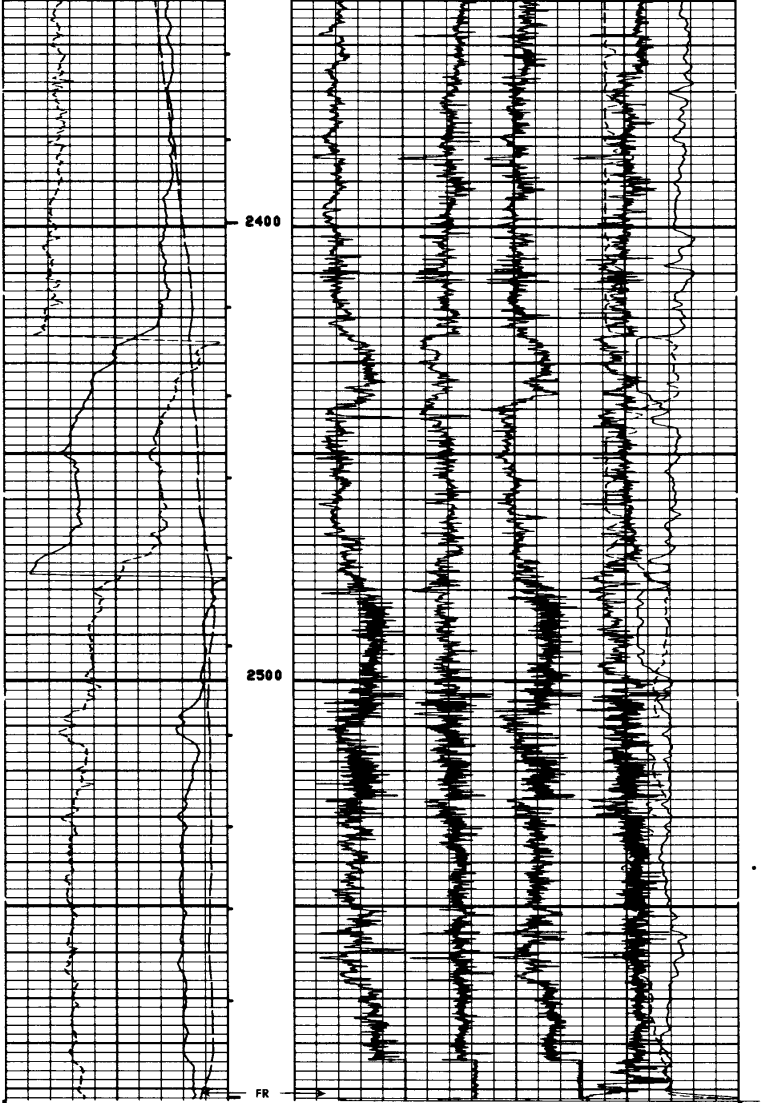


FILE

6

SEE REMARKS

DEVI(DEG)	
-1.000	9.0000
RB (DEG)	
-40.00	360.00
AZIM(DEG)	
-40.00	360.00

C2 (IN)	
26.000	6.0000
C1 (IN)	
26.000	6.0000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

RB	.0	FEET	AZIM	.0	FEET
FEP1	.0	FEET	DEVI	.0	FEET
REFE	.0	FEET	FEP2	.0	FEET
EMEX	.0	FEET	RC	.0	FEET
C2	.0	FEET	C1	.0	FEET
RC2	.0	FEET	RC1	.0	FEET
TEMP	.0	FEET	PP	.0	FEET
FC0	.0	FEET	TENS	.0	FEET
FC2	.0	FEET	FC1	.0	FEET
FC4	.0	FEET	FC3	.0	FEET
SHDT	.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PVUM	1.00000		BS	8.75000	IN
STYP	HBSD		MCT	36	DEG
BO	0.0	F	BHS	OPEN	

CHANGED PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
VHOL	1411.72	F3			

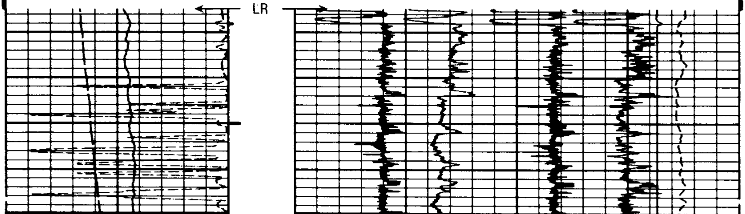
DEVI(DEG)	
-1.000	9.0000
RB (DEG)	
-40.00	360.00
AZIM(DEG)	
-40.00	360.00

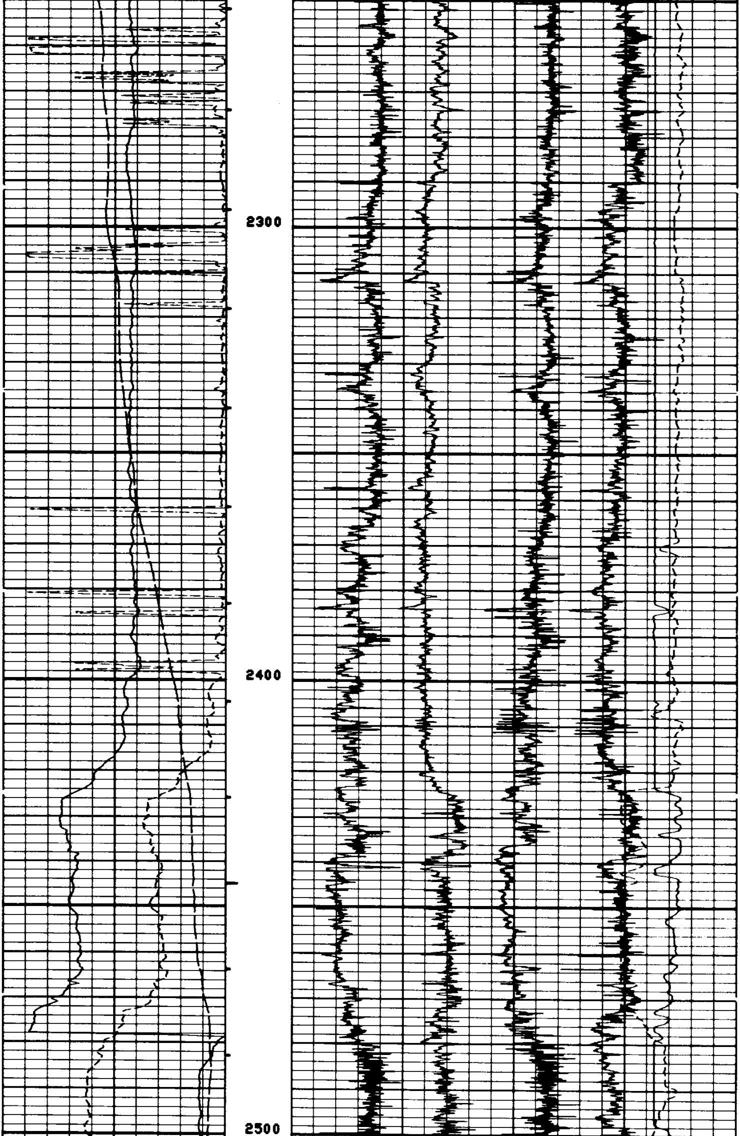
C2 (IN)	
26.000	6.0000
C1 (IN)	
26.000	6.0000

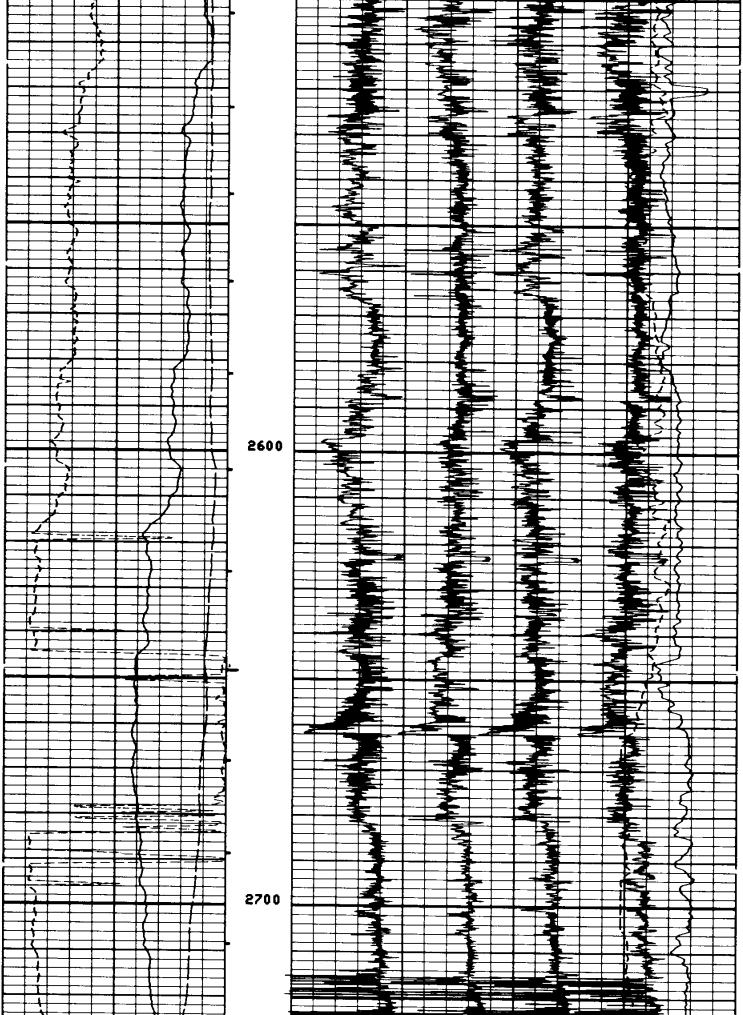
FILE

5

SEE REMARKS







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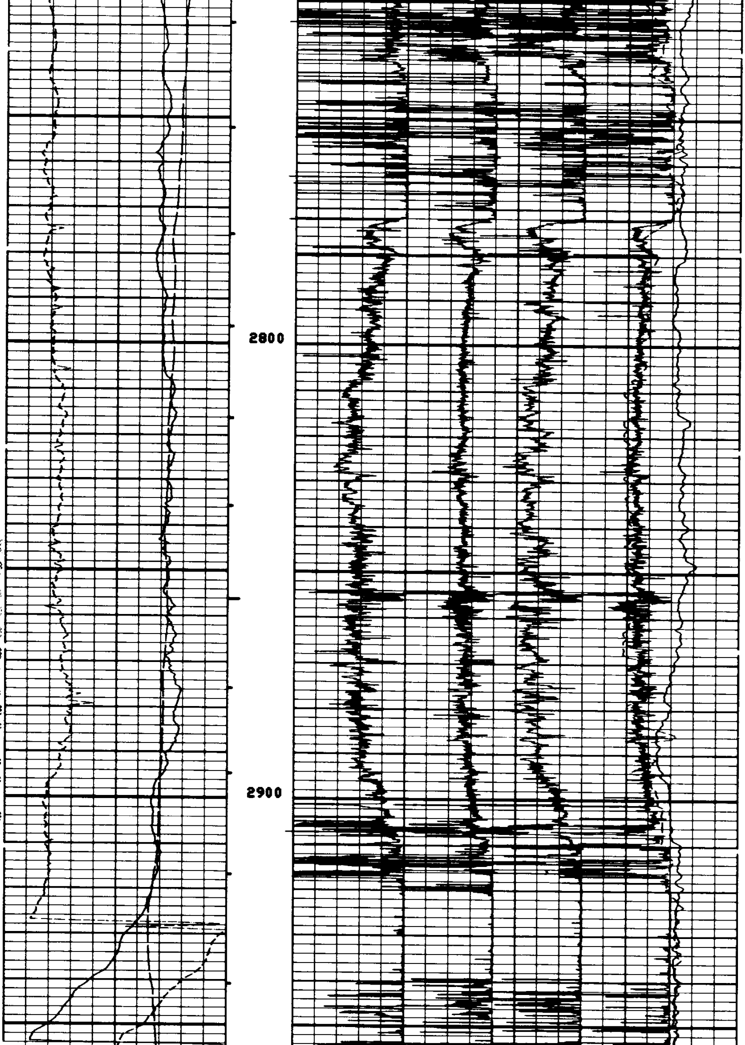

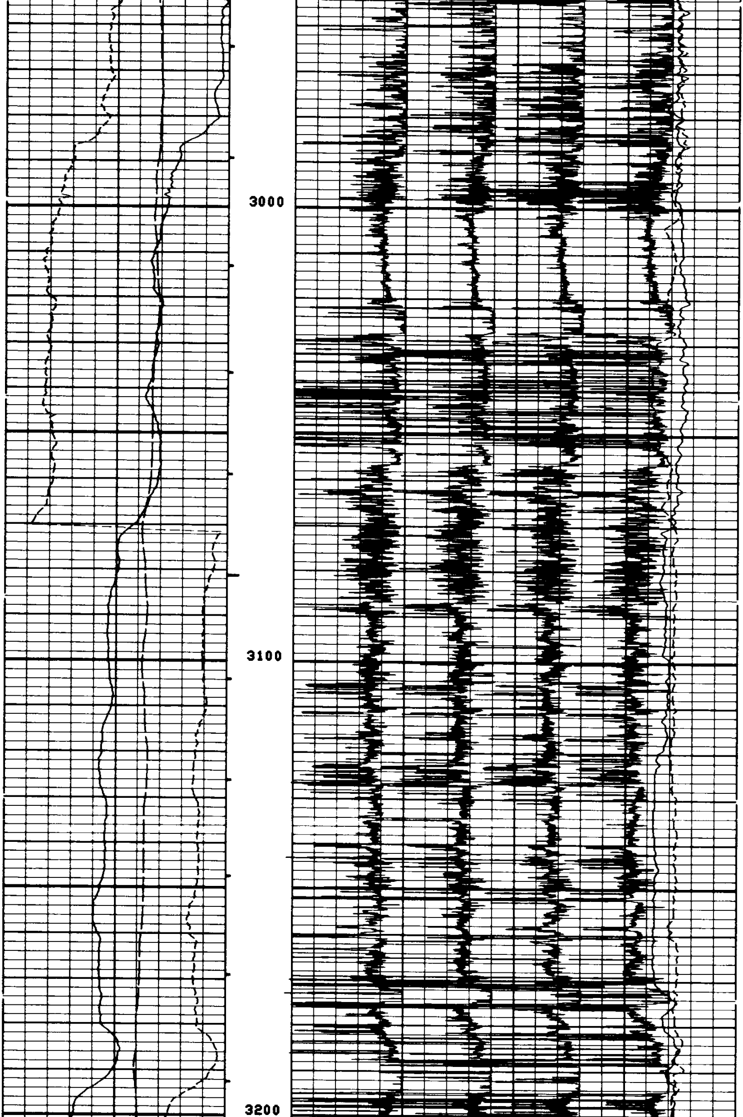

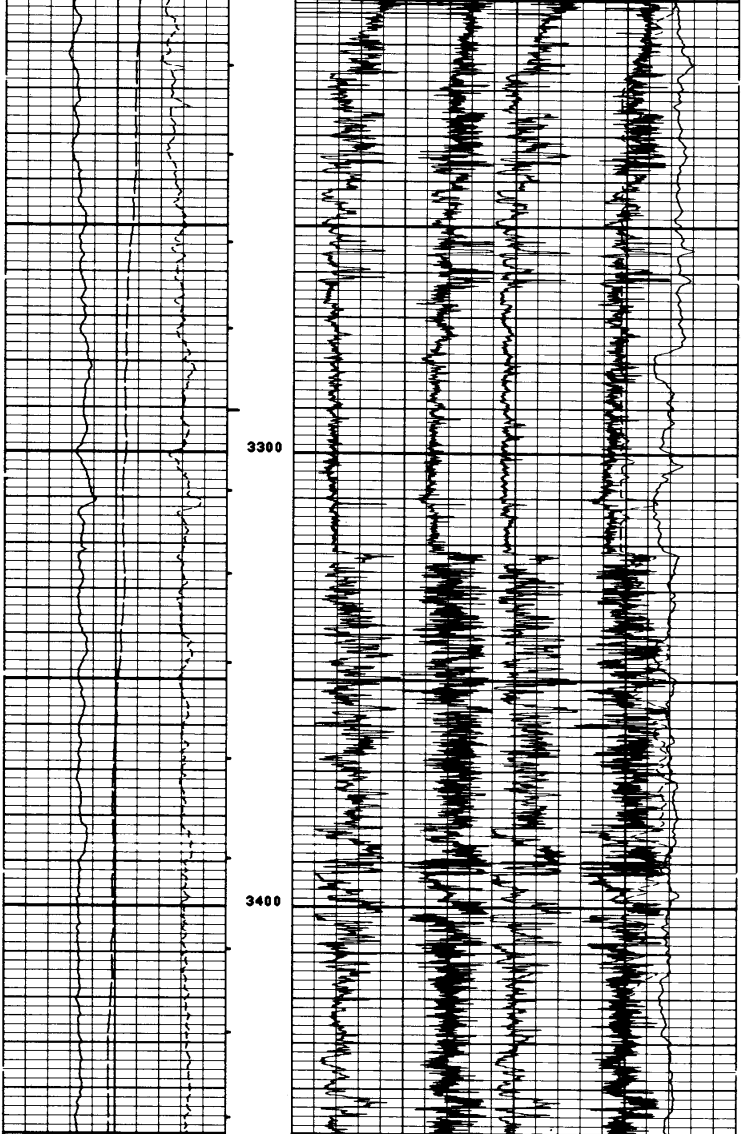

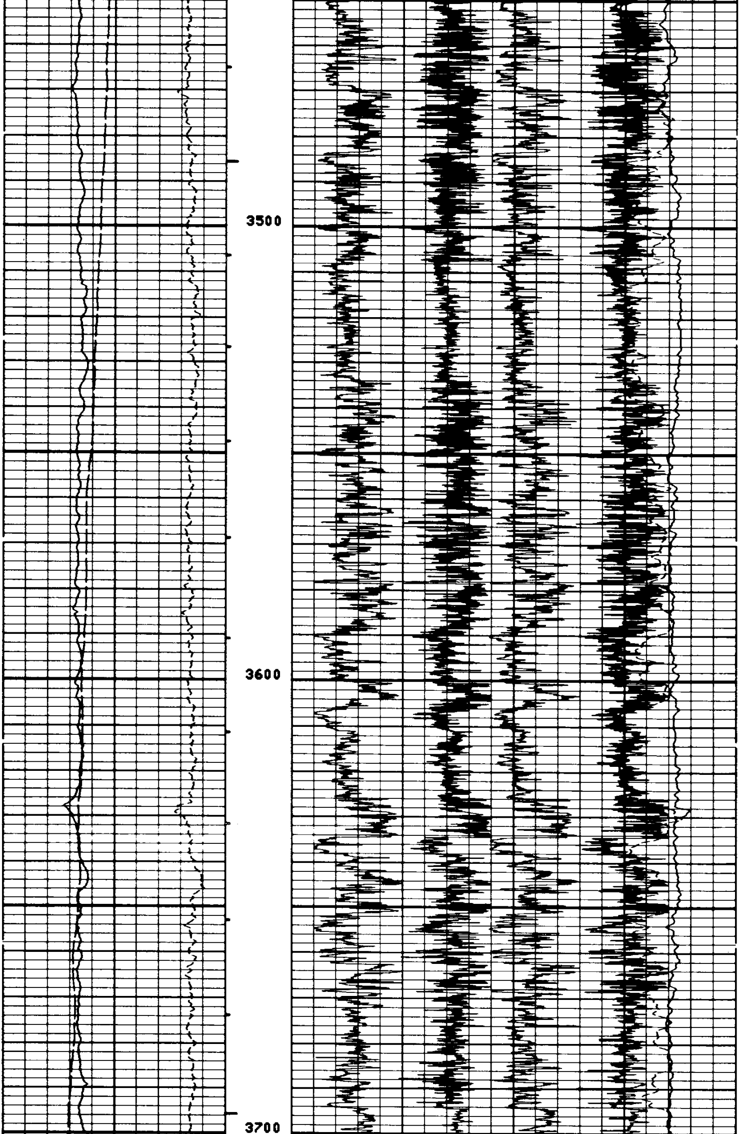

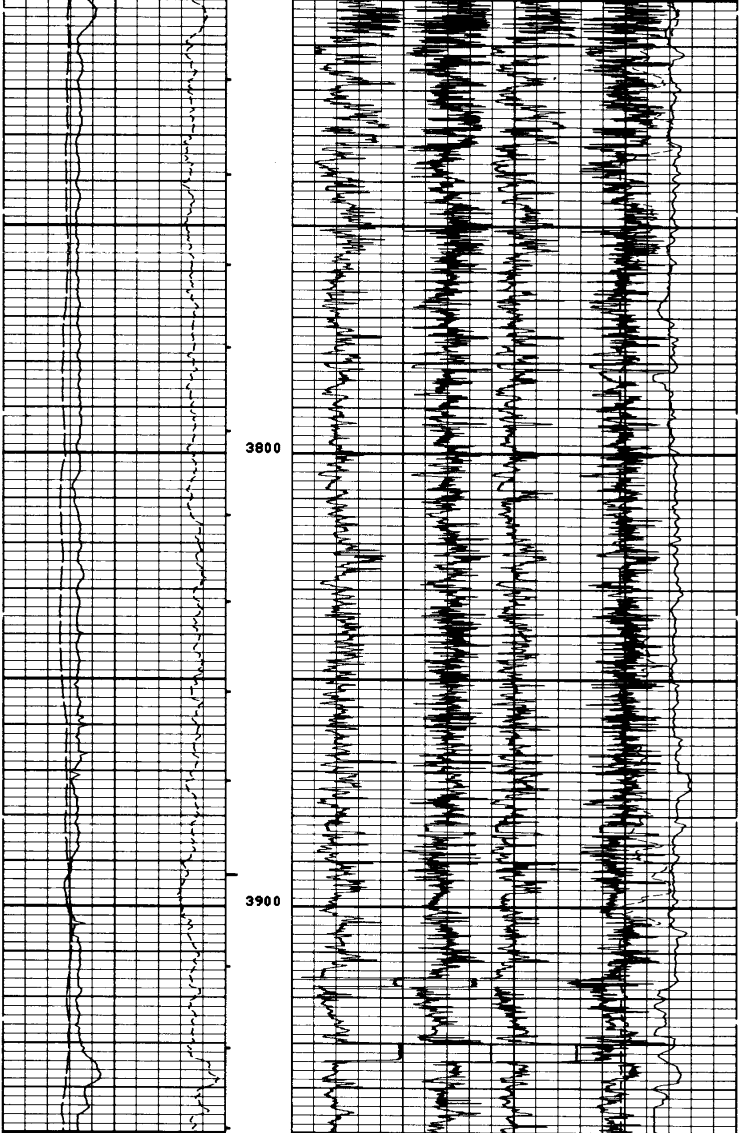

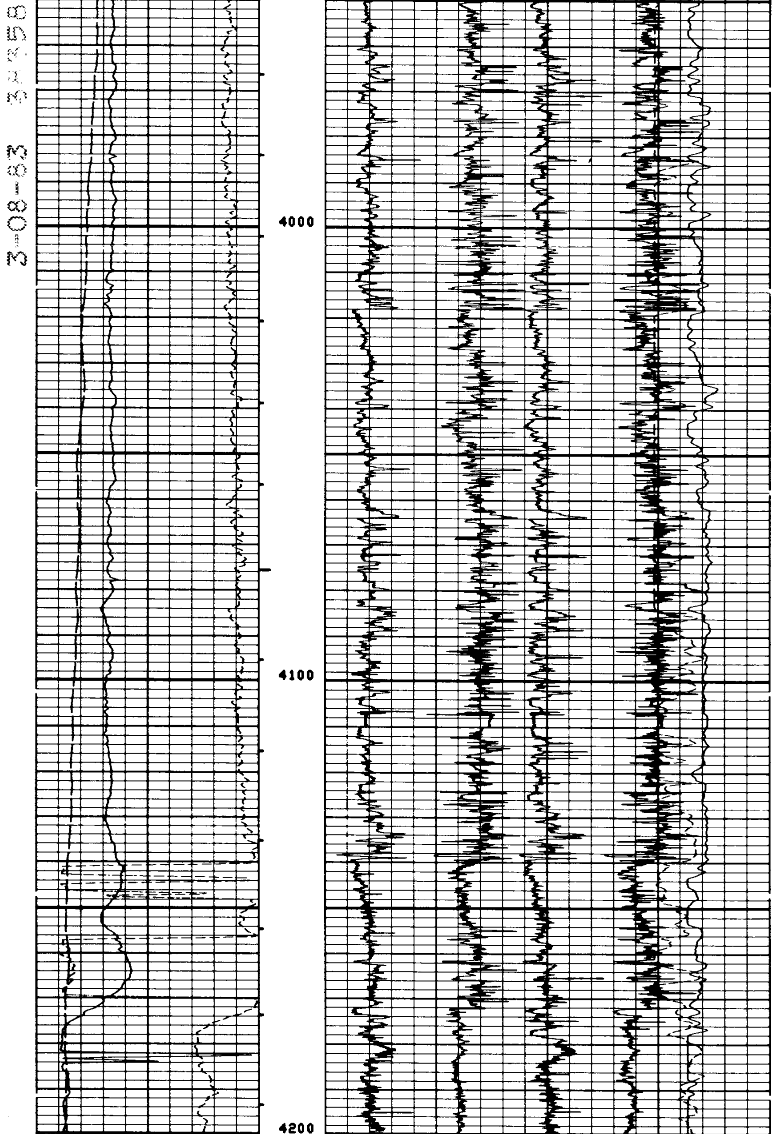

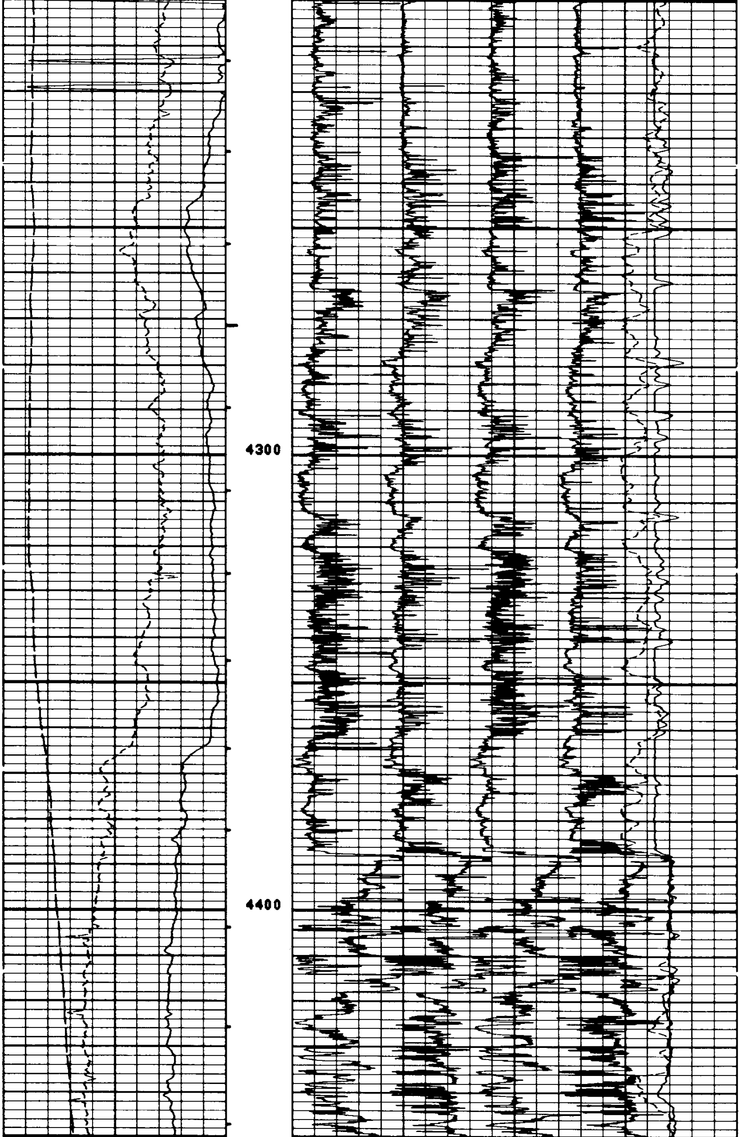

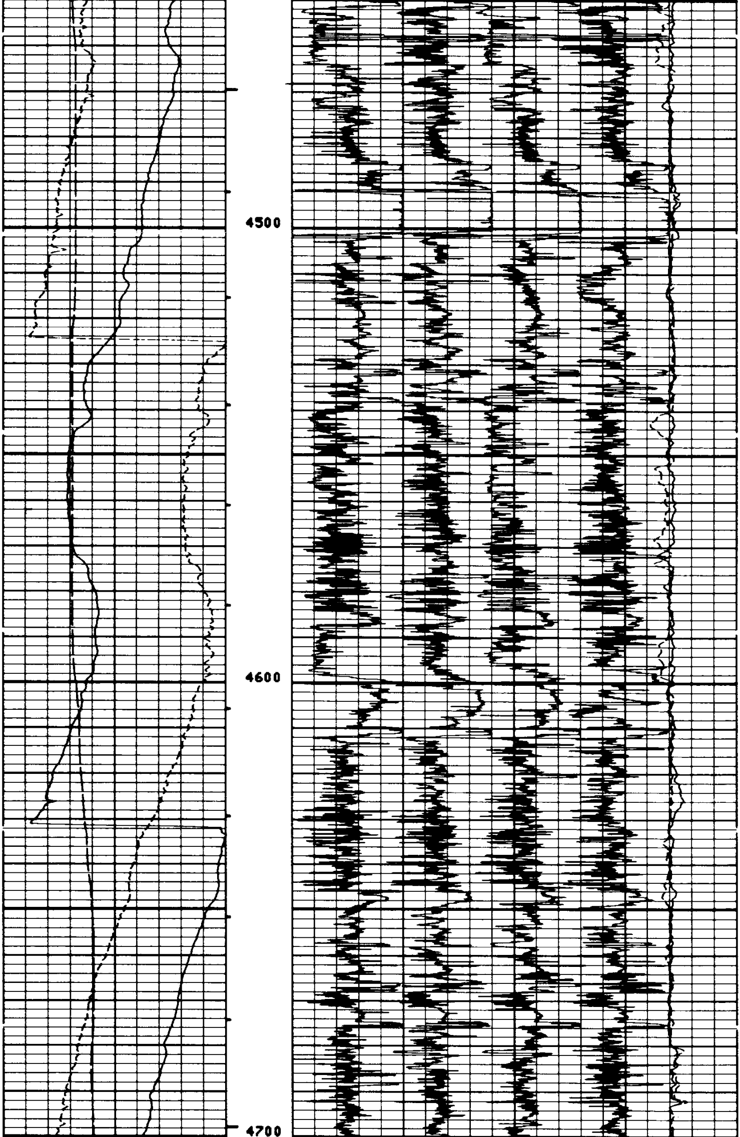

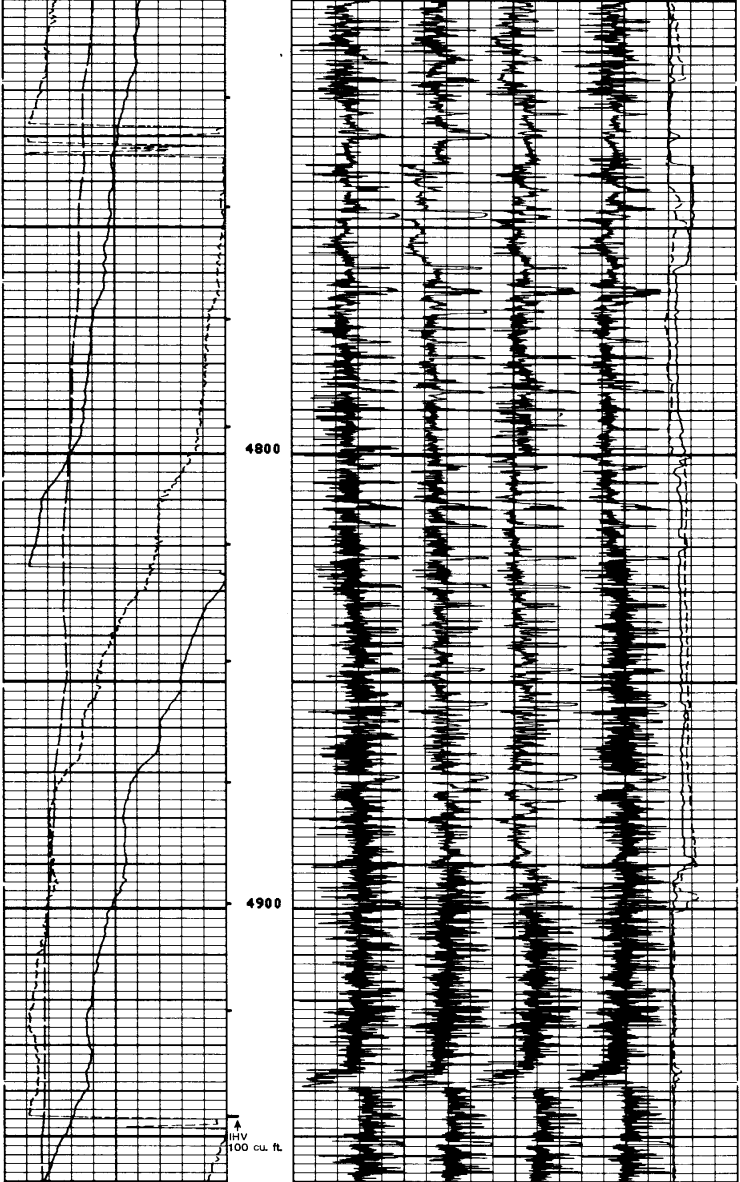

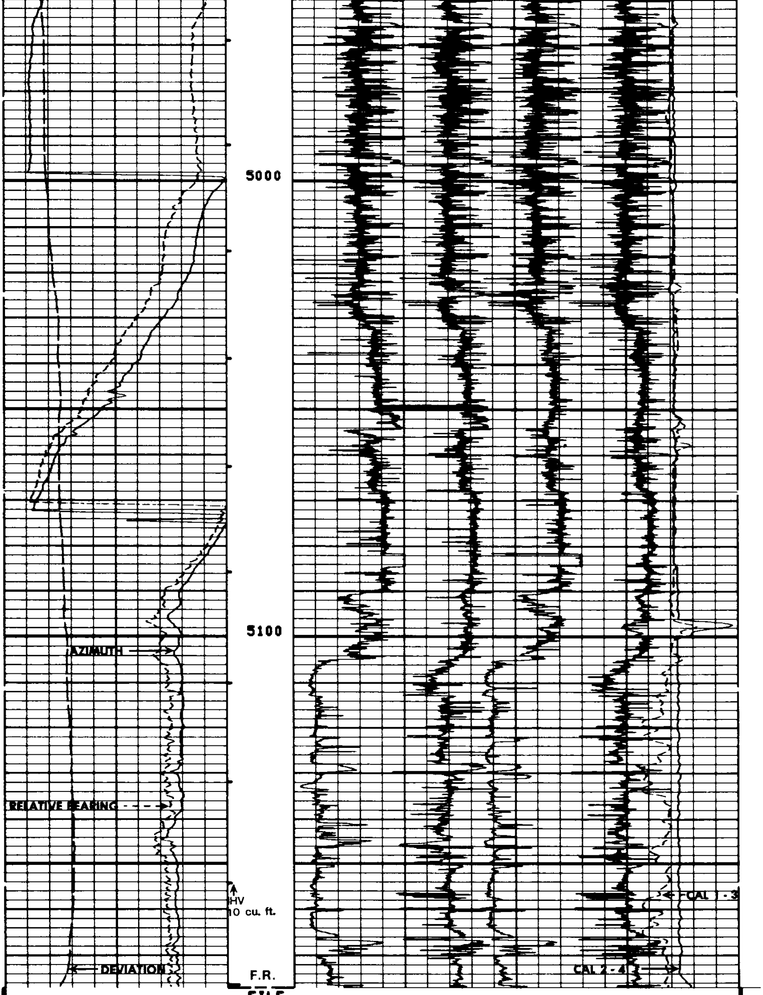

FILE

5

DEVI(DEG)	
-1.000	9.0000
RB (DEG)	
-40.00	360.00
AZIM(DEG)	
-40.00	360.00

C2 (IN)	
26.000	6.0000
C1 (IN)	
26.000	6.0000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

RB	.0	FEET	AZIM	.0	FEET
FEP1	.0	FEET	DEVI	.0	FEET
REFE	.0	FEET	FEP2	.0	FEET
EMEX	.0	FEET	RC	.0	FEET
C2	.0	FEET	C1	.0	FEET
RC2	.0	FEET	RC1	.0	FEET
TEMP	.0	FEET	PP	.0	FEET
FC0	.0	FEET	TENS	.0	FEET
FC2	.0	FEET	FC1	.0	FEET
FC4	.0	FEET	FC3	.0	FEET
SHDT	.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PVUM	1.00000		BS	8.75000	IN
STYP	HDSD		MCT	36	DEG
DO	0.0	F	BHS	OPEN	

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CHANGED PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
VHOL	136.334	F3			

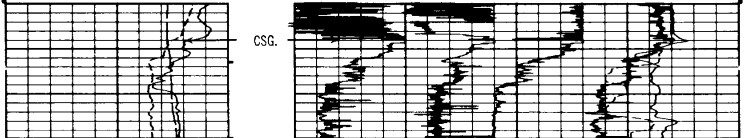
DEVI(DEG)	
-1.000	9.0000
RB (DEG)	
-40.00	360.00
AZIM(DEG)	
-40.00	360.00

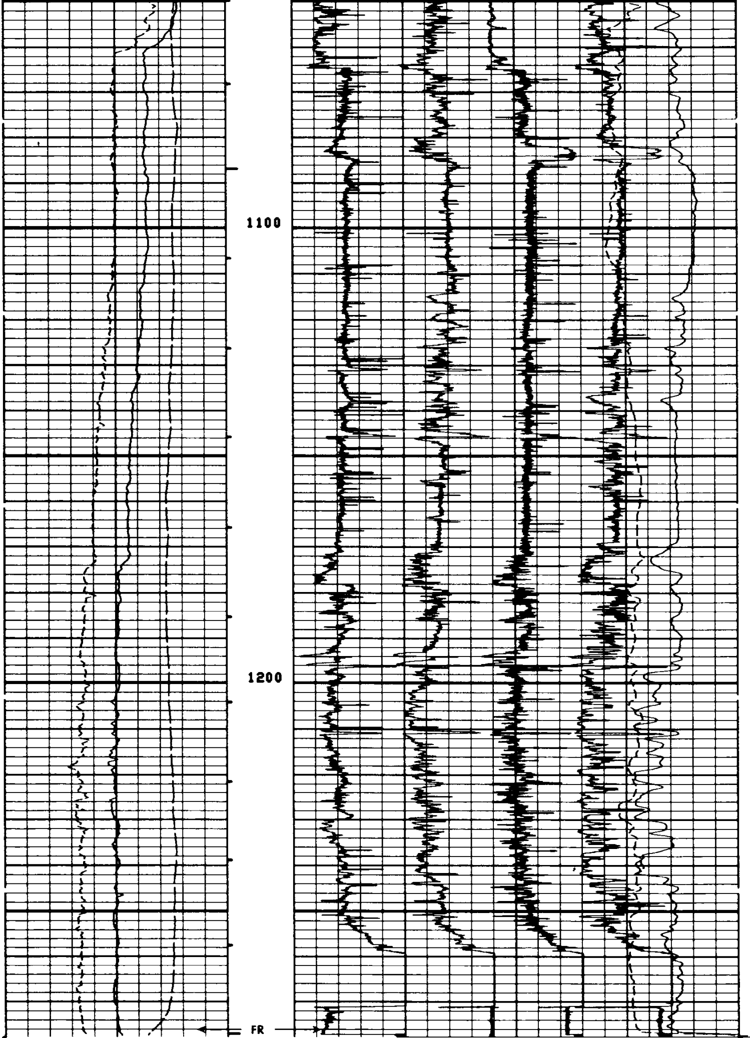
C2 (IN)	
26.000	6.0000
C1 (IN)	
26.000	6.0000

FILE

7

REPEAT SECTION





FILE

7

REPEAT SECTION

DEVI(DEG)			C2 (IN)	
-1.000	9.0000			
RB (DEG)				
-40.00	360.00		26.000	6.0000
AZIM(DEG)			C1 (IN)	
-40.00	360.00		26.000	6.0000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

RB	.0	FEET	AZIM	.0	FEET
FEP1	.0	FEET	DEVI	.0	FEET
REFE	.0	FEET	FEP2	.0	FEET
EMEX	.0	FEET	RC	.0	FEET
C2	.0	FEET	C1	.0	FEET
RC2	.0	FEET	RC1	.0	FEET
TEMP	.0	FEET	PP	.0	FEET
FC0	.0	FEET	TENS	.0	FEET
FC2	.0	FEET	FC1	.0	FEET
FC4	.0	FEET	FC3	.0	FEET
SHDT	.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PVUM	1.00000		BS	8.75000	IN
STYP	HDSD		MCT	36	DEG
DO	0.0	F	BHS	OPEN	

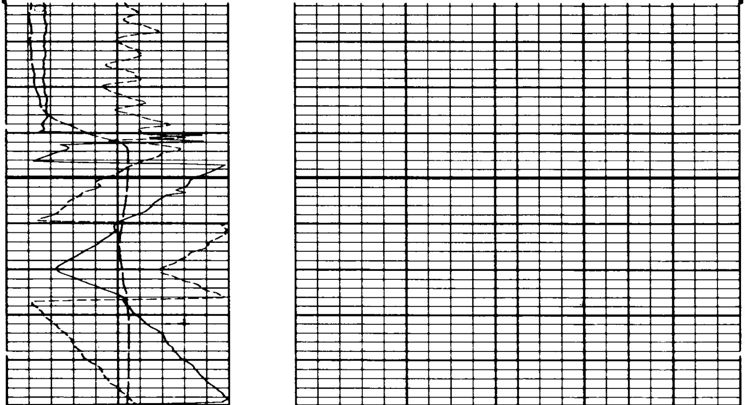
3-08-835383582

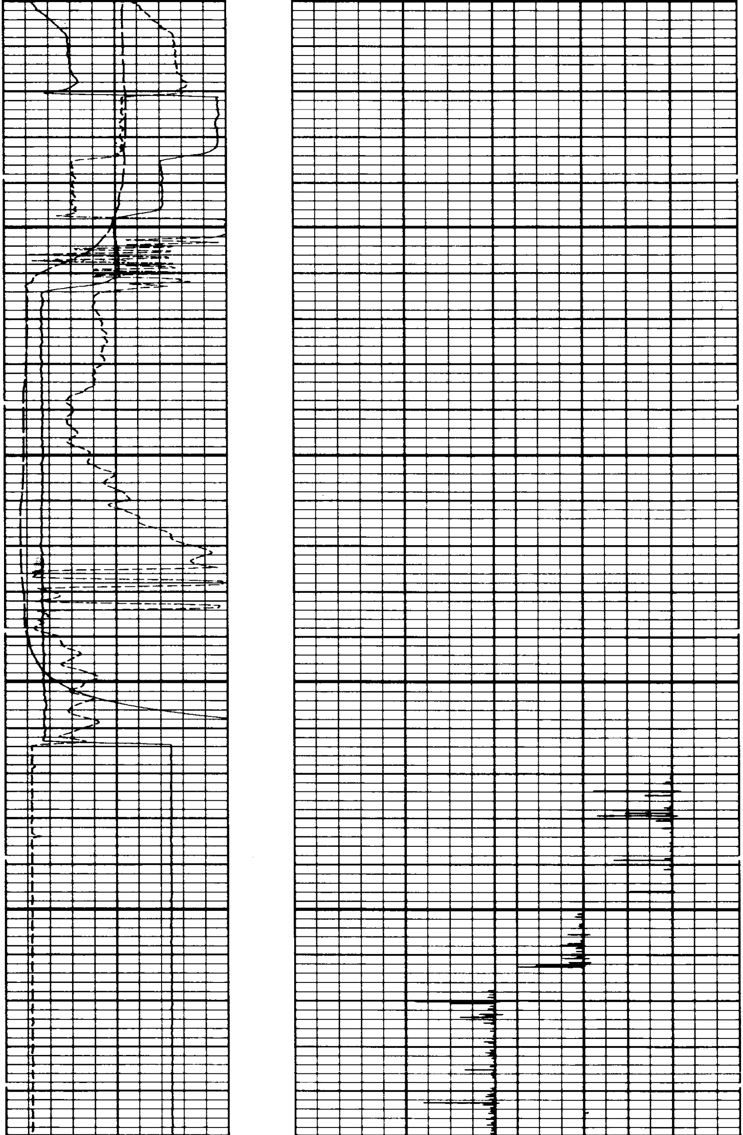
DEVI(DEG)			C2 (IN)	
-1.000	9.0000			
RB (DEG)				
-40.00	360.00		26.000	6.0000
AZIM(DEG)			C1 (IN)	
-40.00	360.00		26.000	6.0000

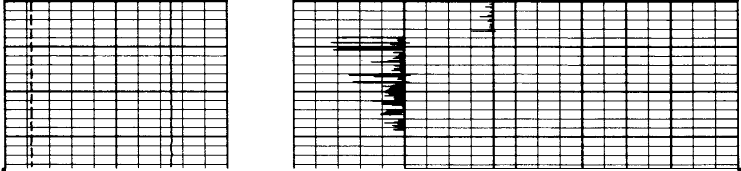
FILE

3

CALIBRATION BEFORE SURVEY







FILE

3

CALIBRATION BEFORE SURVEY

DEVI(DEG)			
-1.000	9.0000		
RB (DEG)		C2 (IN)	
-40.00	360.00	26.000	6.0000
AZIM(DEG)		C1 (IN)	
-40.00	360.00	26.000	6.0000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

RB	.0	FEET	AZIM	.0	FEET
FEP1	.0	FEET	DEVI	.0	FEET
REFE	.0	FEET	FEP2	.0	FEET
EMEX	.0	FEET	RC	.0	FEET
C2	.0	FEET	C1	.0	FEET
RC2	.0	FEET	RC1	.0	FEET
TEMP	.0	FEET	PP	.0	FEET
FC0	.9	FEET	TENS	.9	FEET
FC2	.0	FEET	FC1	.0	FEET
FC4	.0	FEET	FC3	.0	FEET
SHDT	.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PVUM	1.00000		BS	8.75000	IN
STYP	HDSD		MCT	36	DEG
DO	0.0	F	BHS	OPEN	

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 83/03/03
PROGRAM FILE: HDT (VERSION 22.4 82/09/01)

HDT CALIPER CALIBRATION SUMMARY

	MEASURED		CALIBRATED		
	SMALL	LARGE	SMALL	LARGE	UNITS
C1	4.9	12.2	6.0	12.0	IN
C2	6.6	13.4	6.0	12.0	IN

FILE

2

3-08-83

COMPANY DIAMOND SHAMROCK CORPORATION
WELL WATZEK #22-19
FIELD WILDCAT
COUNTY CLATSOP STATE OREGON

SCHL. FR 5177.0'
SCHL. TD 5180.0'
DRLR. TD 5195.0'

Elev: KB 645.0'
DF N/A
GL 636.0'