Schlumberger

CEMENT BOND LOG WITH CNL

CSU

COMPANY: ARCO OIL AND GAS COMPANY

WELL: LONGVIEW FIBRE #23-25

FIELD: MIST GAS FIELD
COUNTY: COLUMBIA
STATE: OREGON
NATION: USA
LOCATION: 3050'S & 1800'E OF THE
NW CORNER OF...
SEC: 25 TWP: 6N RGE: 5W

OTHER SERVICES-
CET
CEQL

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 900.0 F
LOG MEASURED FROM: KB
12.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 912.0 F
DF:
GL: 900.0 F

PROGRAM
TAPE NO:
26.2
SERVICE
ORDER NO:
272165

DATE: 12 DEC 85
RUN NO: 1

RECEIVED
FEB 18 1986
DOGAMI
Portland

DEPTH-DRILLER: 1978.0 F
DEPTH-LOGGER: 1143.0 F
BTM. LOG INTERVAL: 1135.0 F
TOP LOG INTERVAL: 100.0 F

CASING-DRILLER: 417 F
CASING-LOGGER:
CASING: 9 5/8" 5 1/2"
WEIGHT: 17.00 LB/F
BIT SIZE: 8 3/4"
DEPTH: 1978 F

TYPE FLUID IN HOLE: WATER
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE:
RM: AT
RMF: AT
RMC: AT
SOURCE RMF/RMC: /
RM AT BHT: AT
RMF AT BHT: AT
RMC AT BHT: AT

TIME CIRC. STOPPED:
TIME LOGGER ON BTM.: 07:59

MAX. REC. TEMP: 69°F

LOGGING UNIT NO: 5898
LOGGING UNIT LOC: BAKERSFIELD PROD SERV
RECORDED BY: NEUMANN
WITNESSED BY: WILLIAMSON/ANDERSON

REMARKS:

DEPTH CORRELATED TO SWS FDC,CNL,GR..12/7/85.
CEMENT DATA 372 SKS "G" W/ 3% KCL, 1% D-127 + .75% D-65
+ 4% GEL LEAD SLURRY, 110 SKS "G" W/ 3% KCL, 1% D-127,
.25% D-65, 1.67 GAL/SK D600 TAIL.
PBTD DRILLER AT 1150
DEVIATION IS ABOUT 33 DEGREES.

EQUIPMENT NUMBERS-

SLS-WA 1537	SLC-MA 245	CNC-A 1471	CAL-RA 1069
SLM-DA 1160	NLM-BC 533		

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 12-DEC-85 09:34

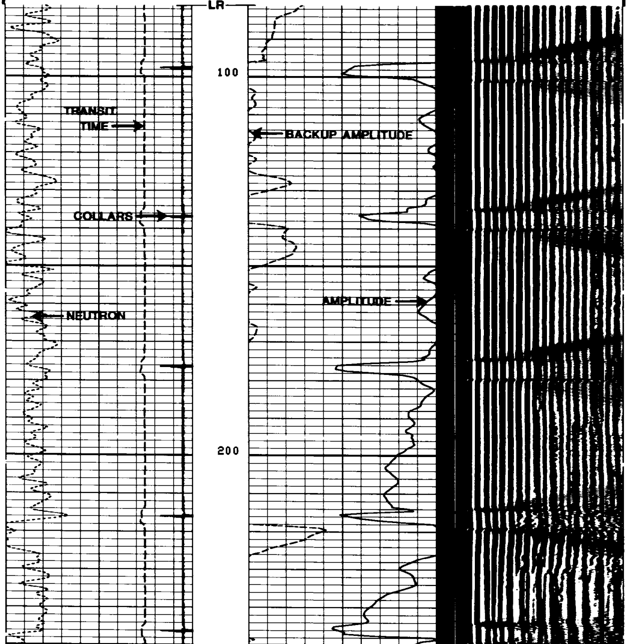
NPHI
.80000 0.0
TT2 (US)
400.00 200.00
CCL
-19.00 1.0000

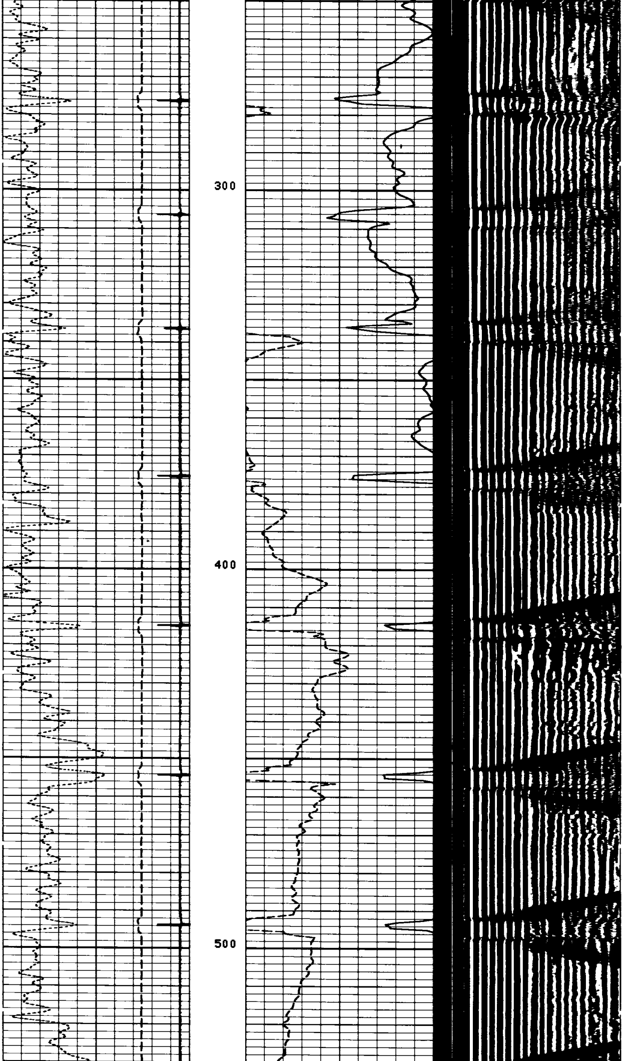
CBL (MV)
50.000 100.00
CBL (MV)
0.0 50.000

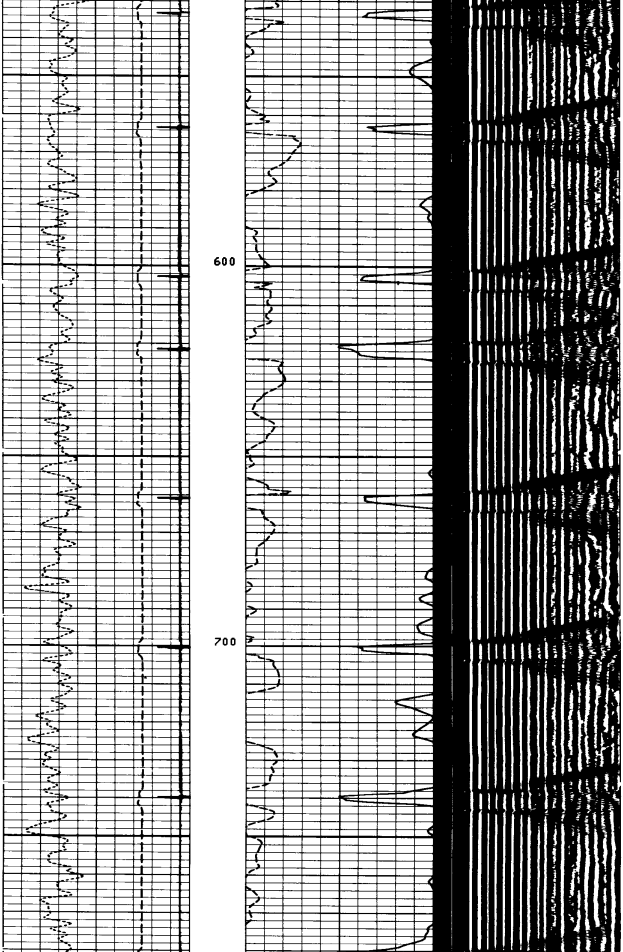
VDL
200.00 1200.0

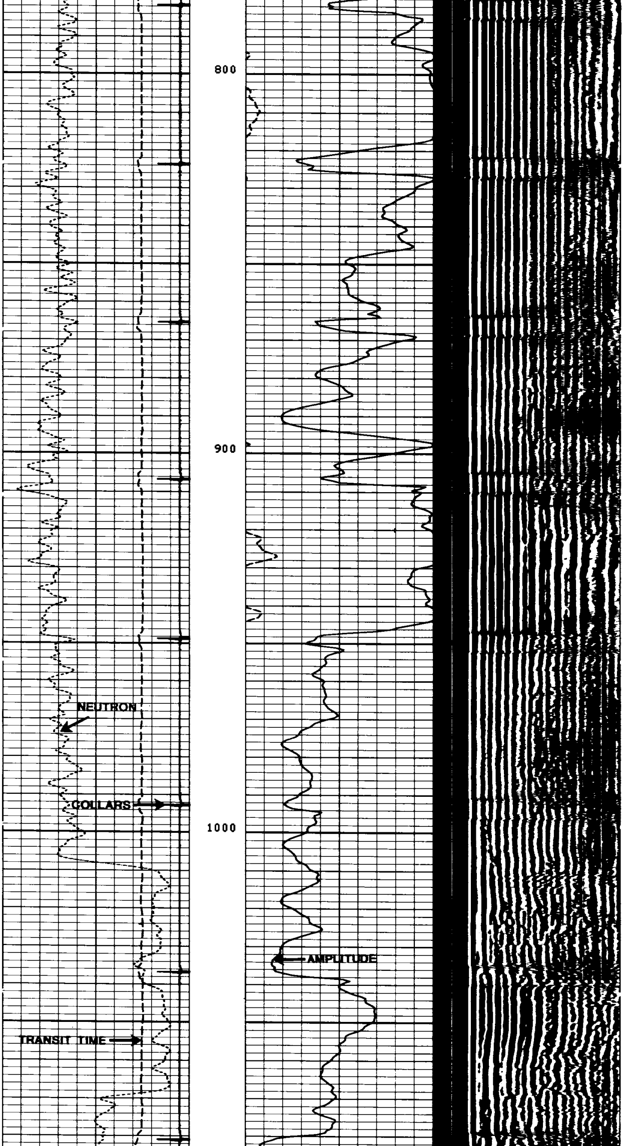
MAIN LOG
VARIABLE DENSITY

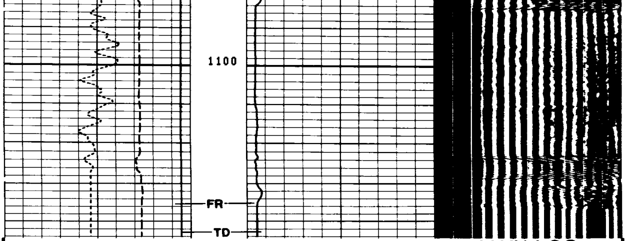
FILE 2 12-DEC-85 08:36











FILE 2 12-DEC-85 08:09

MAIN LOG
VARIABLE DENSITY

NPHI .80000 0.0 TT2 (US) 400.00 200.00 CCL -19.00 1.0000		CBL (MV) 50.000 100.00 CBL (MV) 0.0 50.000	VDL 200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

CBL	8.7	FEET	AMPL	8.7	FEET
TT3	8.7	FEET	TT4	8.7	FEET
TT1	8.7	FEET	TT2	8.7	FEET
NCNL	25.5	FEET	SRAT	8.7	FEET
TENS	8.7	FEET	FCNL	25.5	FEET
NRAT	25.5	FEET	CCL	32.7	FEET
NOIS	0.0	FEET			

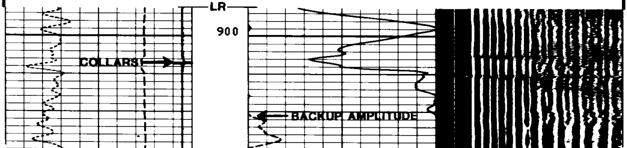
PARAMETERS

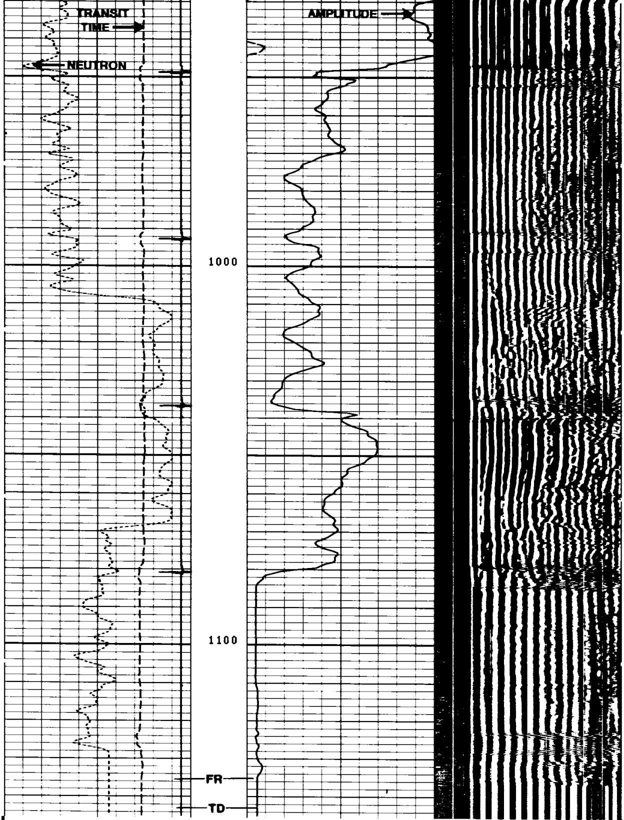
NAME	VALUE	UNIT	NAME	VALUE	UNIT
CWEI	17.0000	LB/F	BILI	.700000	
DWS	16		CSTR	2500.00	PSIA
DDEL	200	US	WSV1	WF1	
DWCO	512		DSIN	5	US
DTM	56.0000	US/F	CDTS	100.000	
PSNR	2.25700		DTF	189.000	US/F
MATR	SAND		HC	BS	
BHS	CASE		CSIZ	5.50000	IN
BS	8.75000	IN			

NPHI .80000 0.0 TT2 (US) 400.00 200.00 CCL -19.00 1.0000		CBL (MV) 50.000 100.00 CBL (MV) 0.0 50.000	VDL 200.00 1200.0

REPEAT SECTION
VARIABLE DENSITY

FILE 1 12-DEC-85 08:04





FILE 1 12-DEC-85 07:58 **REPEAT SECTION**

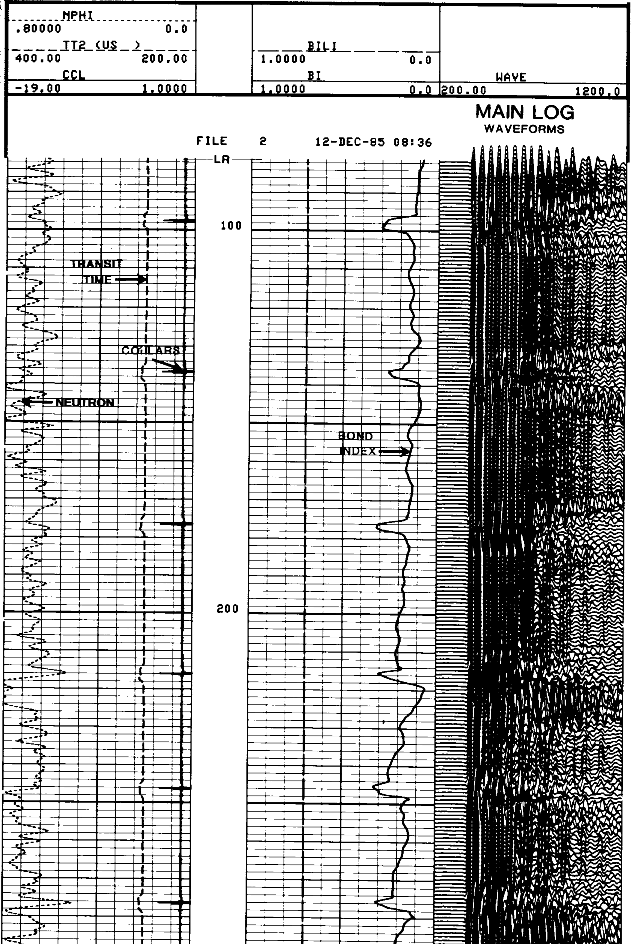
MPHI .80000 0.0			
TT2 (US) 400.00 200.00		CBL (MV) 50.000 100.00	
CCL -19.00 1.0000		CBL (MV) 0.0 50.000	VDL 200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

CBL	8.7	FEET	AMPL	8.7	FEET
TT3	8.7	FEET	TT4	8.7	FEET
TT1	8.7	FEET	TT2	8.7	FEET
NCNL	25.5	FEET	SRAT	8.7	FEET
TENS	8.7	FEET	FCNL	25.5	FEET
NRAT	25.5	FEET	CCL	32.7	FEET
NOIS	0.0	FEET			

PARAMETERS

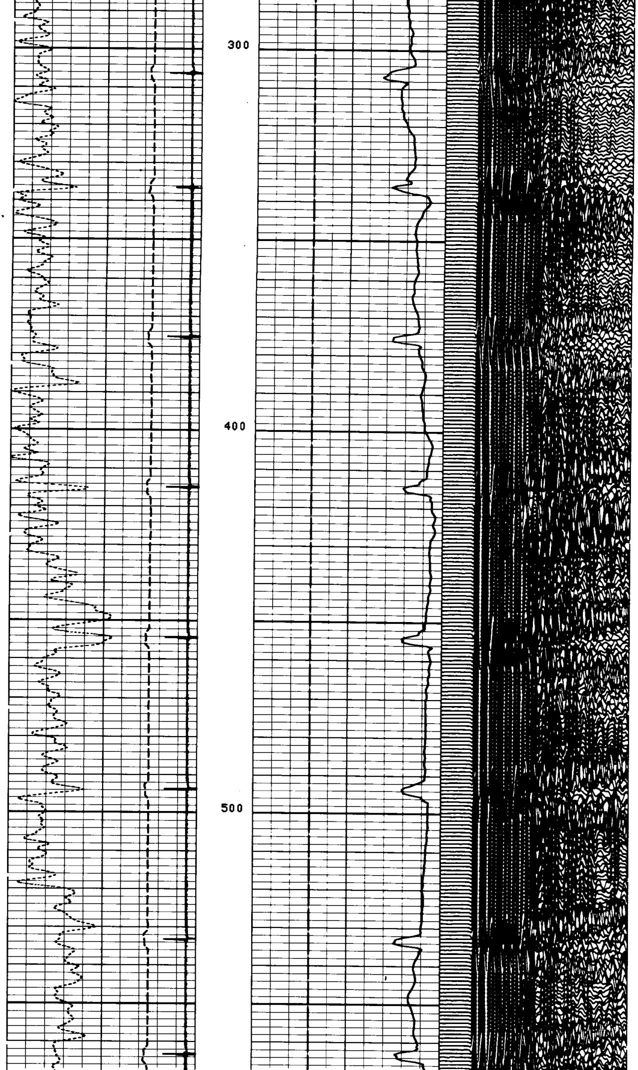
NAME	VALUE	UNIT	NAME	VALUE	UNIT
CWEI	17.0000	LB/F	BILI	.700000	
DWS	16		CSTR	2500.00	PSIA
DDEL	200	US	WSV1	WF1	
DWCO	512		DSIN	5	US
DTM	56.0000	US/F	CDTS	100.000	
PSNR	2.25700		DTF	189.000	US/F
MATR	SAND		HC	BS	
BHS	CASE		CSIZ	5.50000	IN
BS	8.75000	IN			

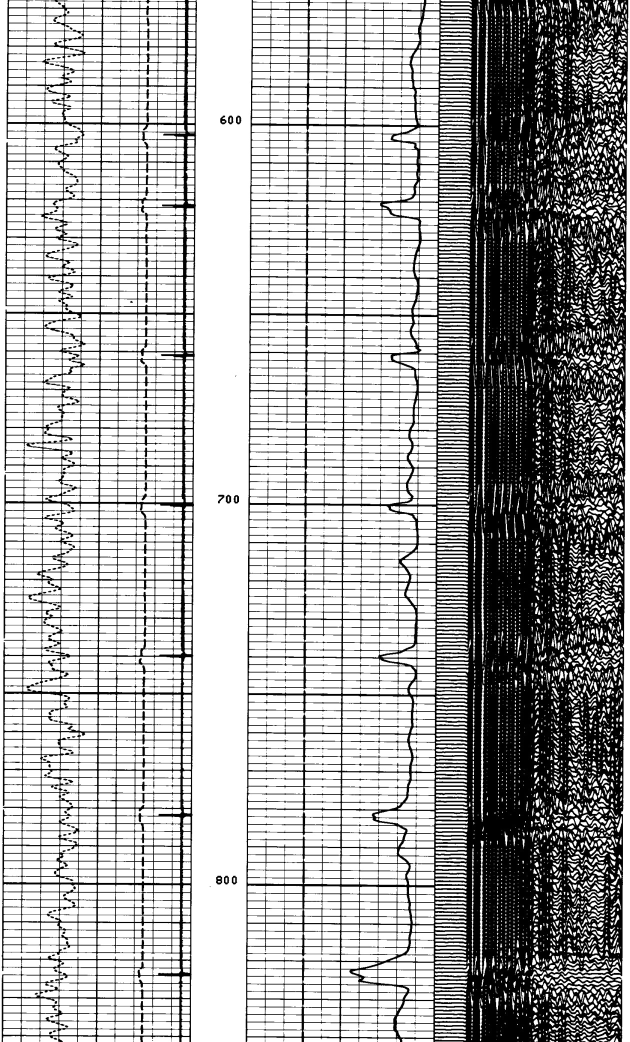


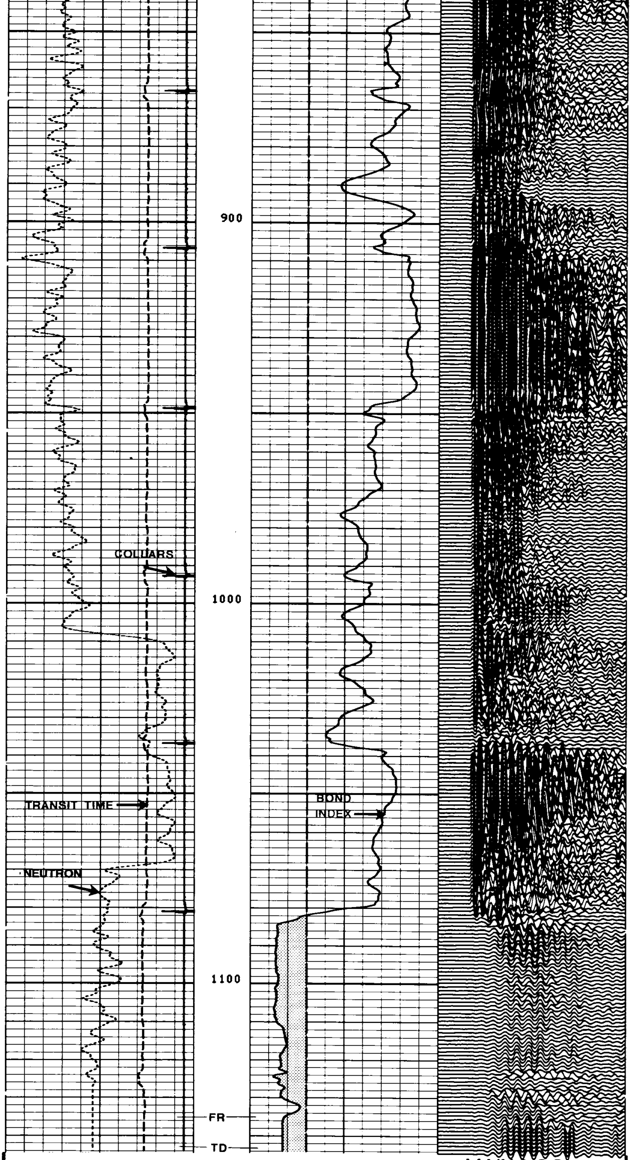
MAIN LOG

WAVEFORMS

FILE 2 12-DEC-85 08:36







FILE 2 12-DEC-85 08:09

MAIN LOG

WAVEFORMS

NPHI .80000 0.0 TT2 (US) 400.00 200.00 CCL -19.00 1.0000		BILI 1.0000 0.0 BI 1.0000 0.0	WAVE 200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

CBL	8.7	FEET	AMPL	8.7	FEET
TT3	8.7	FEET	TT4	8.7	FEET
TT1	8.7	FEET	TT2	8.7	FEET
NCNL	25.5	FEET	SRAT	8.7	FEET
TENS	8.7	FEET	FCNL	25.5	FEET
NRAT	25.5	FEET	CCL	32.7	FEET
NOIS	0.0	FEET			

PARAMETERS

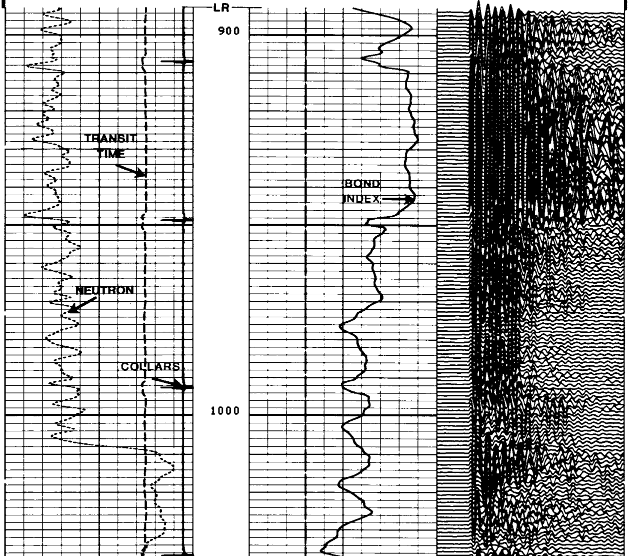
NAME	VALUE	UNIT	NAME	VALUE	UNIT
CWEI	17.0000	LB/F	BILI	.700000	
DWS	16		CSTR	2500.00	PSIA
DDEL	200	US	WSV1	WF1	
DWCO	512		DSIN	5	US
DTM	56.0000	US/F	CDTS	100.000	
PSNR	2.25700		DTF	189.000	US/F
MATR	SAND		HC	BS	
BHS	CASE		CSIZ	5.50000	IN
BS	8.75000	IN			

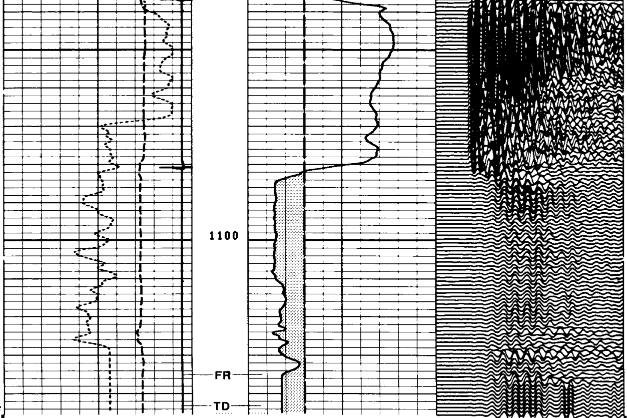
NPHI .80000 0.0 TT2 (US) 400.00 200.00 CCL -19.00 1.0000		BILI 1.0000 0.0 BI 1.0000 0.0	WAVE 200.00 1200.0

REPEAT SECTION

WAVEFORMS

FILE 1 12-DEC-85 08:04





FILE 1 12-DEC-85 07:58 **REPEAT SECTION**

NPHI						
.80000	0.0					
TT2 (US)			BILI			
400.00	200.00		1.0000	0.0		
CCL			BI		WAVE	
-19.00	1.0000		1.0000	0.0	200.00	1200.0

SENSOR MEASURE POINT TO TOOL ZERO

CBL	8.7	FEET	AMPL	8.7	FEET
TT3	8.7	FEET	TT4	8.7	FEET
TT1	8.7	FEET	TT2	8.7	FEET
NCNL	25.5	FEET	SRAT	8.7	FEET
TENS	8.7	FEET	FCNL	25.5	FEET
NRAT	25.5	FEET	CCL	32.7	FEET
NDIS	0.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
CWEI	17.0000	LB/F	BILI	.700000	
DWS	16		CSTR	2500.00	PSIA
DDEL	200	US	WSV1	WF1	
DWCD	512		DSIN	5	US
DTM	56.0000	US/F	CDTS	100.000	
PSNR	2.25700		DTF	189.000	US/F
MATR	SAND		HC	BS	
BHS	CASE		CSIZ	5.50000	IN
BS	8.75000	IN			

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 85/12/12
PROGRAM FILE: ISNCBL (VERSION 26.2 84/04/25)

CNTA DETECTOR CALIBRATION SUMMARY

	TANK		JIG	
	INPUT	CALIBRATED	MEASURED	CALIBRATED
NRAT	2.25700	2.158	2.302	2.201

FILE 0 12-DEC-85 07:12

AFTER SURVEY TOOL CHECK SUMMARY

```
  PERFORMED:     85/12/12
  PROGRAM FILE: ISNCBL (VERSION    26.2    84/04/25)


CNTA                    TOOL  CHECK

                      JIG
               BEFORE      AFTER
  NRAT         2.201       2.205

  POROSITY CHANGE  (LIME):   .001

                     FILE    4      12-DEC-85 08:57
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                SHOP SUMMARY


  PERFORMED:     85/12/07
  PROGRAM FILE: SHOP   (VERSION    26.2    83/11/17)


CNTA              DETECTOR CALIBRATION SUMMARY

              TANK                          JIG
       MEASURED  CALIBRATED      MEASURED   CALIBRATED

  NRAT    2.257      2.158          2.259       2.160

                     (CNC:1471, CNB:2463)
```