Rau 18-14-64

Schlumberger

DUAL INDUCTION-SFL
WITH LINEAR CORRELATION LOG

COUNTY COLUMBIA
FIELD MIST
LOCATION 14-6N-4W
WELL RAU NO. 18-14
COMPANY AMERICAN QUASAR

COMPANY AMERICAN QUASAR PETROLEUM COMPANY

RECEIVED-PTLD
NOV 17 1980
DEPT OF GEOLOGY & MINERAL IND.

WELL RAU NO. 18-14
FIELD MIST
COUNTY COLUMBIA STATE OREGON

LOCATION 900'NORTH & 1099.41'EAST OF THE SOUTHWEST CORNER OF:

API SERIAL NO.	SEC.	TWP	RANGE
	14	6N	4W

Other Services:
BHC
HDT
FDC/CNL/GR

Permanent Datum: GL ; Elev.: 583
Log Measured From KB 10.5 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 593.5
D.F. --
G.L. 583.0

Date	9-6-80			
Run No.	ONE			
Depth—Driller	2434			
Depth—Logger (Schl.)	2432			
Btm. Log Interval	2426			
Top Log Interval	515			
Casing—Driller	7" @515	@	@	@
Casing—Logger	515			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	9.9 | 46	|	|	|
pH | Fluid Loss	11.3 | 5.8 ml	| ml	| ml	| ml
Source of Sample	CIRCULATION			
Rm @ Meas. Temp.	1.96 @ 87 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.07 @ 77 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.10 @ 78 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M	|	|	|
Rm @ BHT	1.97 @ 84 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	1100			
TIME Logger on Bottom	1300			
Max. Rec. Temp.	84 °F	°F	°F	°F
Equip. | Location	8126 | SAC	|	|	|
Recorded By	ANDERSEN			
Witnessed By	SMITH			

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

Run No.	ONE			
Service Order No.	123138			
Fluid Level	FULL			
Salinity ppm. cl	-			
Speed F.P.M.	100			
EQUIPMENT DATA				
Panel No.	282			
Cartridge No.	47			
Sonde No.	35			
Mem. Panel No.	-			
G.R. Panel No.	-			
G.R. Cart No.	-			
Tape Recorder - (TTR)	-			
Depth Encoder - (DRE)	-			
Pressure Wheel - (CPM)	-			
Type Centralizers	NONE			
Stand Off - Inches	-			
CALIBRATION DATA				
SBR	1.0			
Sonde Error - ILM	4.44			
Sonde Error - ILD	4.71			
G.R. BKG. - CPS.	-			
G.R. Source - CPS.	-			
S.E. Set In Hole - Depth	-			
S.E. Corr. - Hole Size	-			
	-			
LOGGING DATA				
SBR	1.0			
Sonde Error Log - ILM	4.44			
Sonde Error Log - ILD	4.71			
G.R. Scale per 100 Div.	-			
G.R. - T.C. Log	-			
	°F	°F	°F	°F
	°F	°F	°F	°F
	°F	°F	°F	°F

SCALE CHANGES

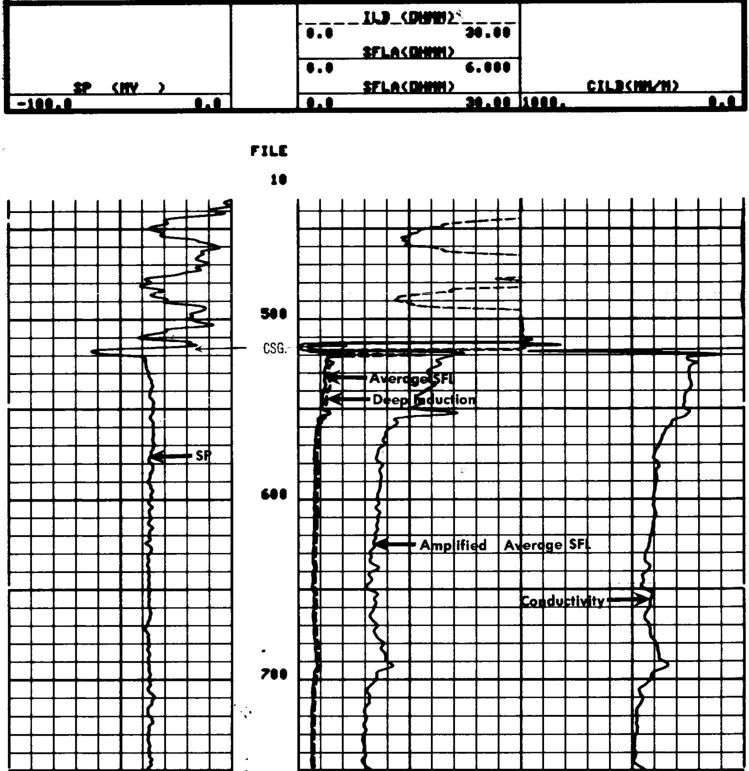
Type Log	Depth	Scale Up Hole	Scale Down Hole

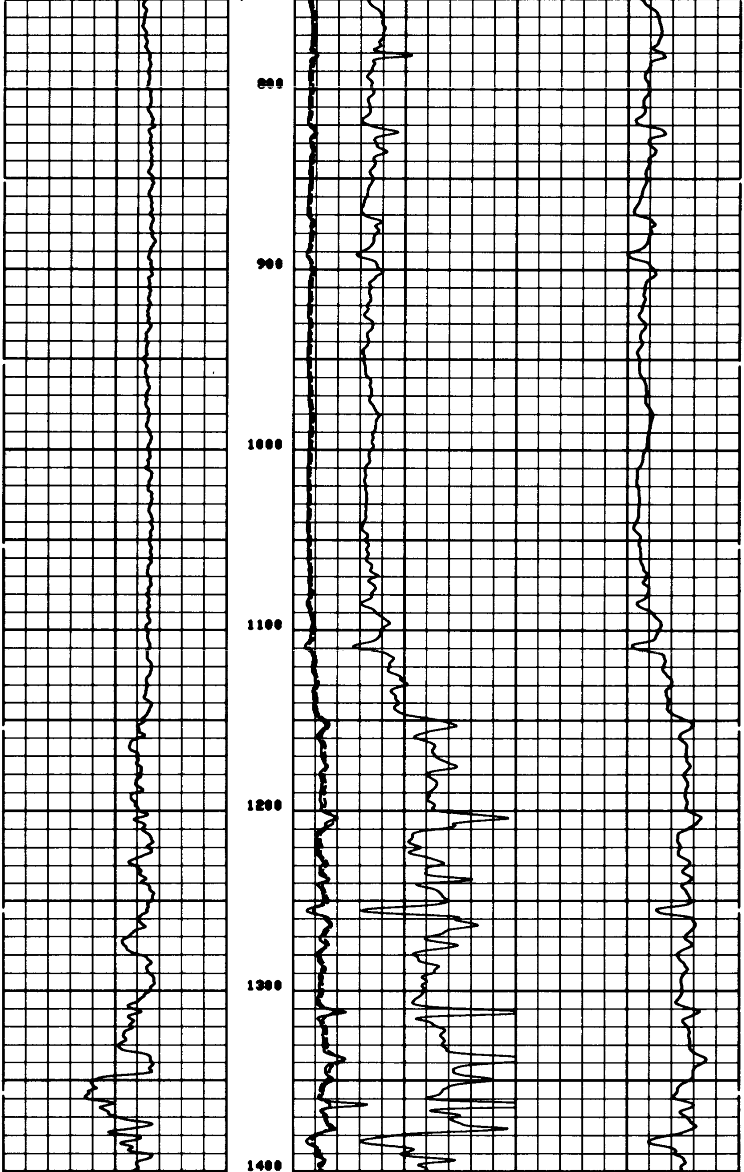
REMARKS

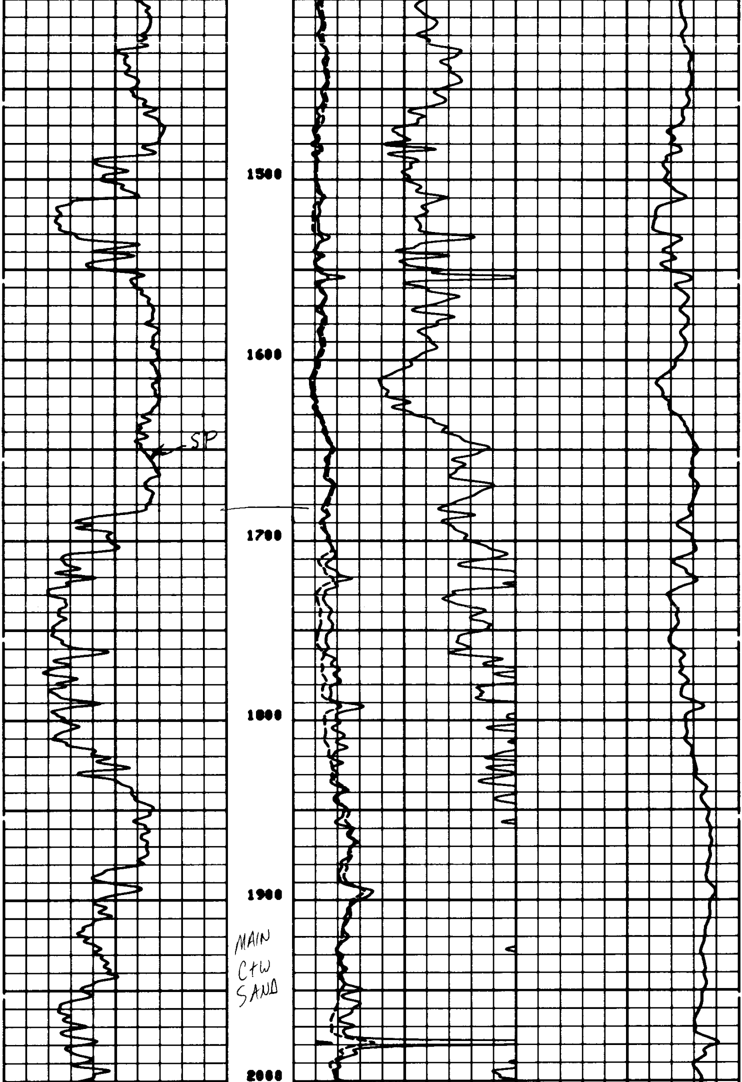
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

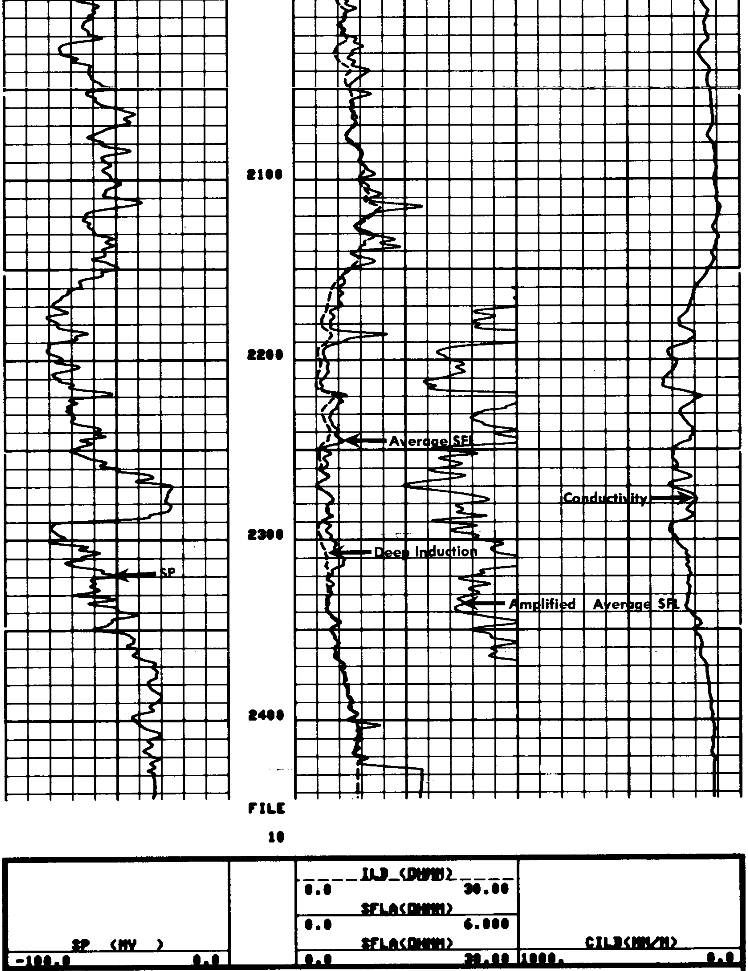
PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
SDR	OHMM	1.000	DSEC	MM/M	4.710	BS	INCH	6.250
FPHI		PHIX	MSEC	MM/M	4.440			
DO		0.0	DHS		OPEN			









PARAMETERS

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SDR	OHMM	1.000	BSEC	MM/M	4.710	BS	INCH	6.250
FPHI		PHIX	MSEC	MM/M	4.440			
BO		0.0	BHS		OPEN			

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
SBR	OHMM	1.000	DSEC	MM/M	4.710	BS	INCH	6.250
FPHI		PHIX	MSEC	MM/M	4.440			
DO		0.0	BHS		OPEN			

SP (MV)
-100.0 0.0

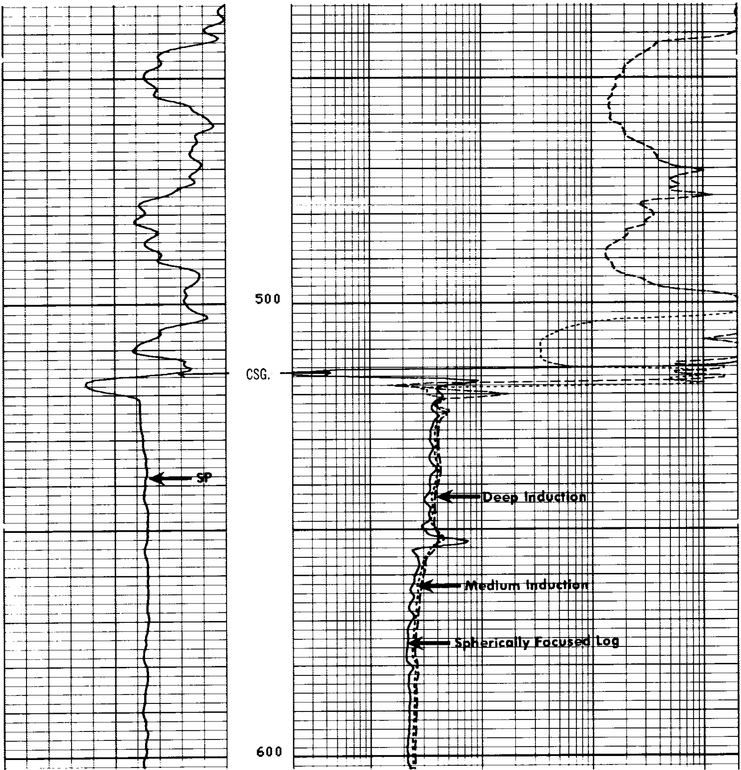
ILD (OHMM)
0.2000 2000.

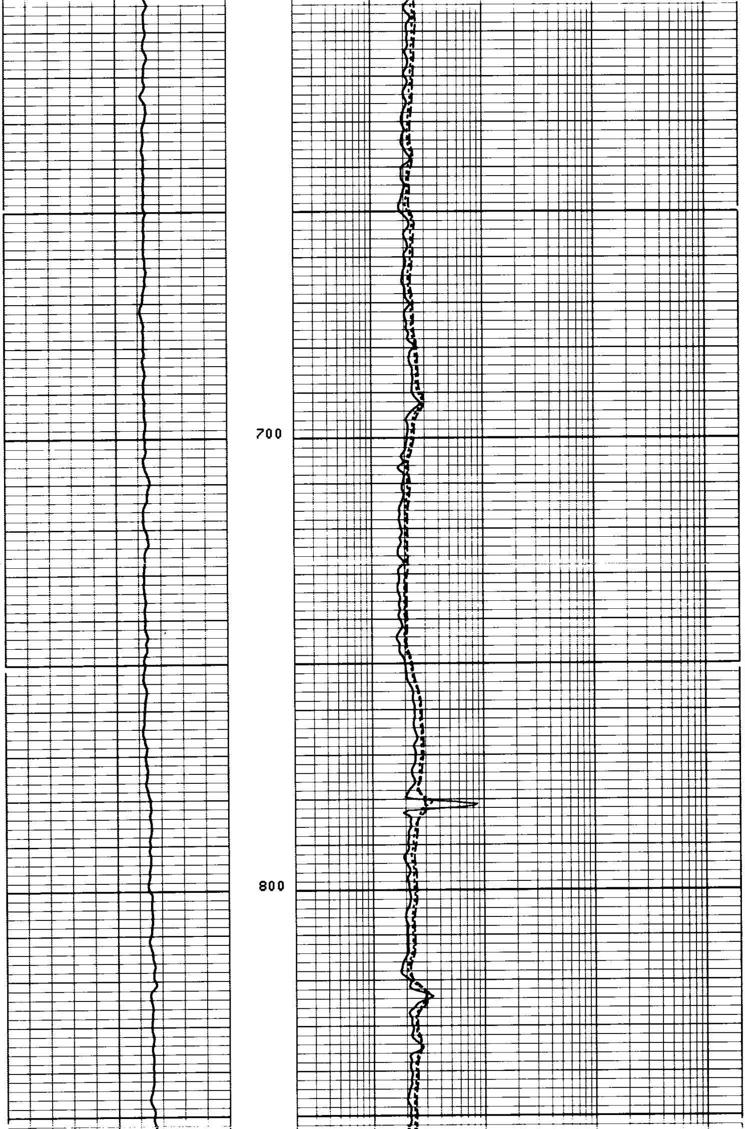
ILM (OHMM)
0.2000 2000.

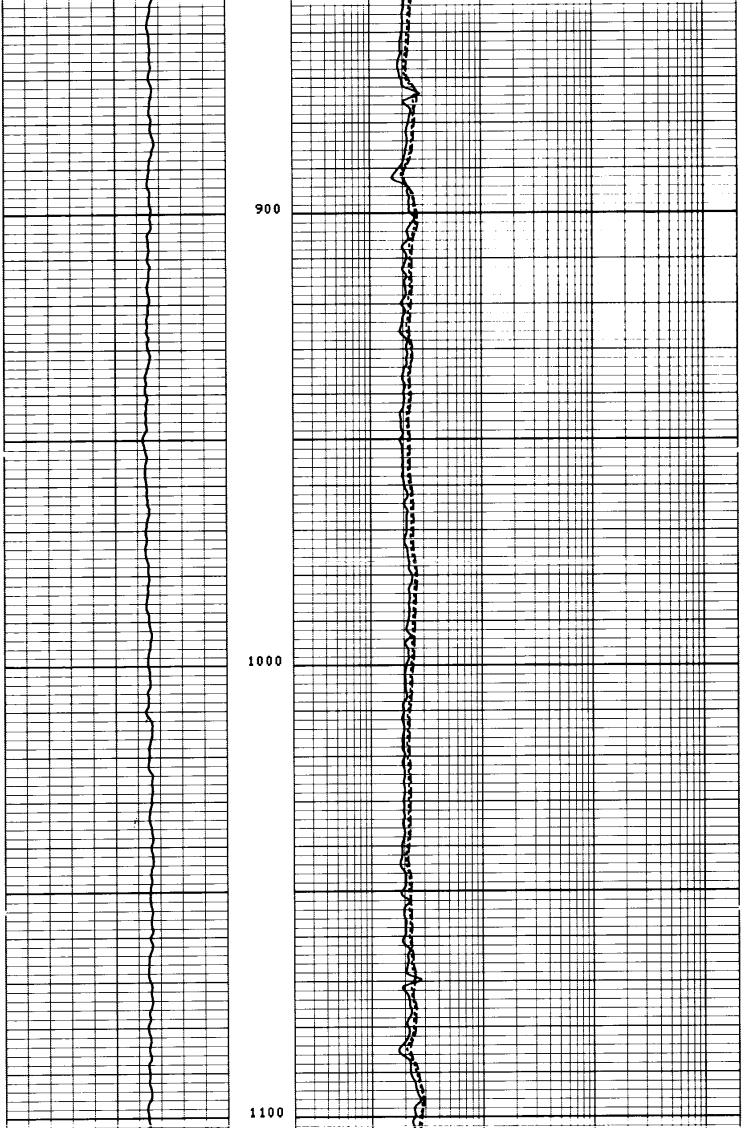
SFLU(OHMM)
0.2000 2000.

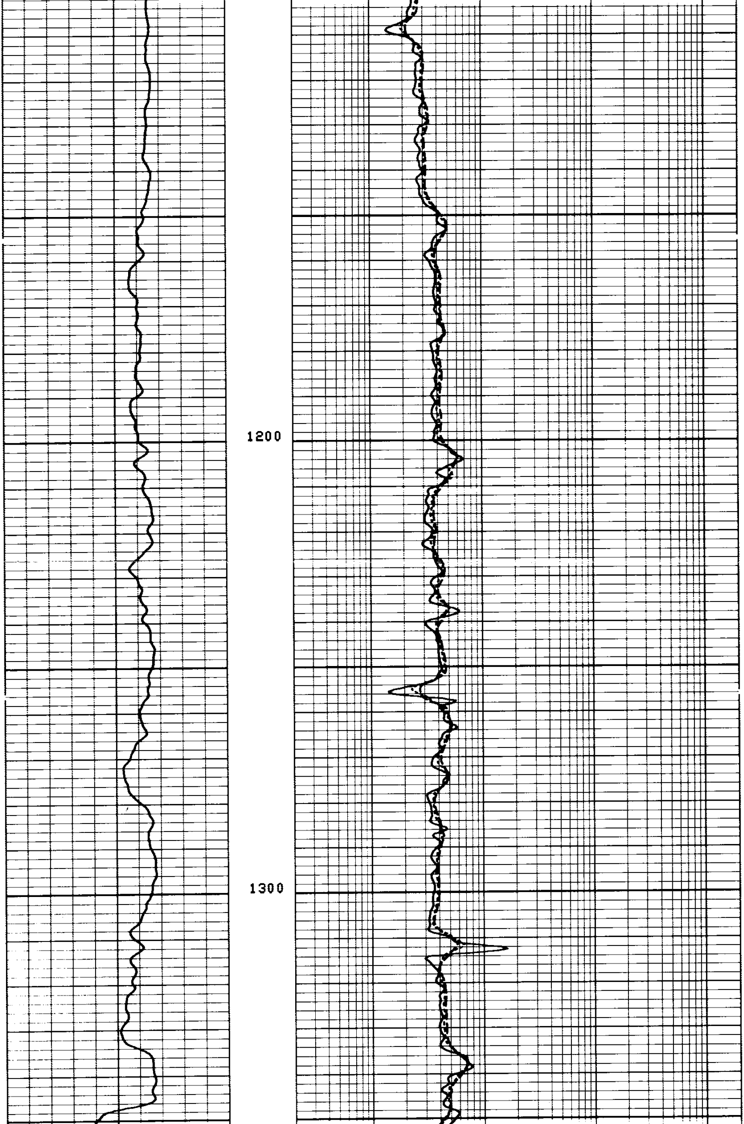
FILE

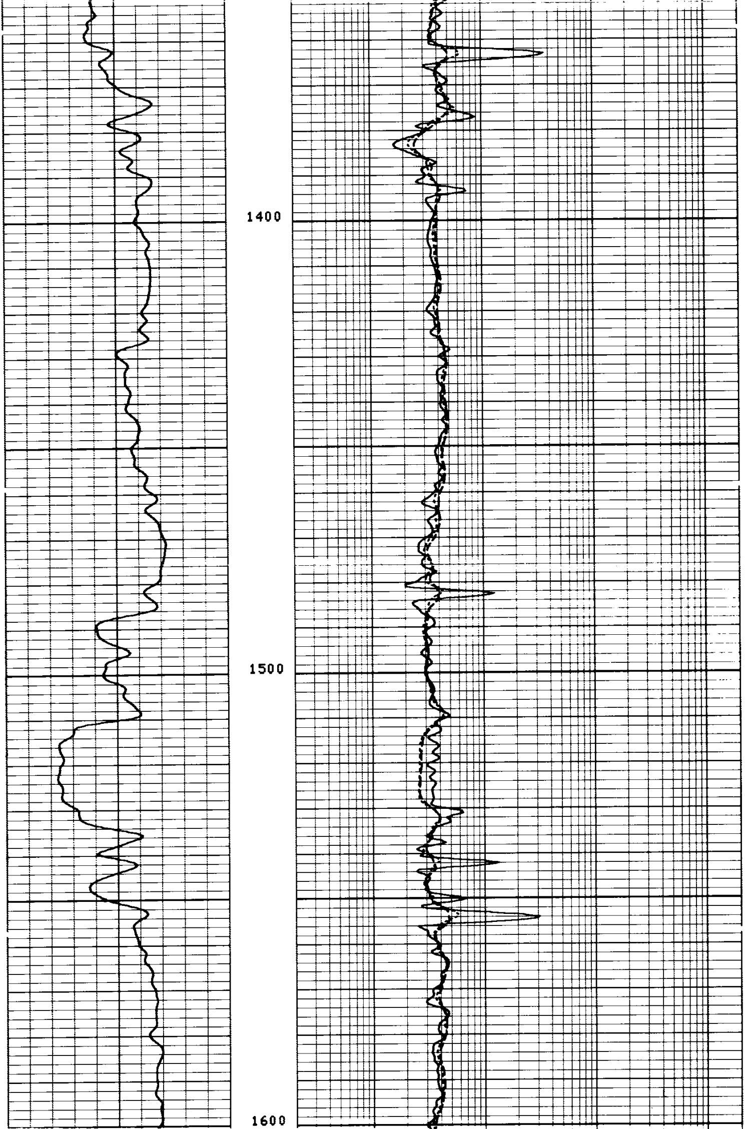
10

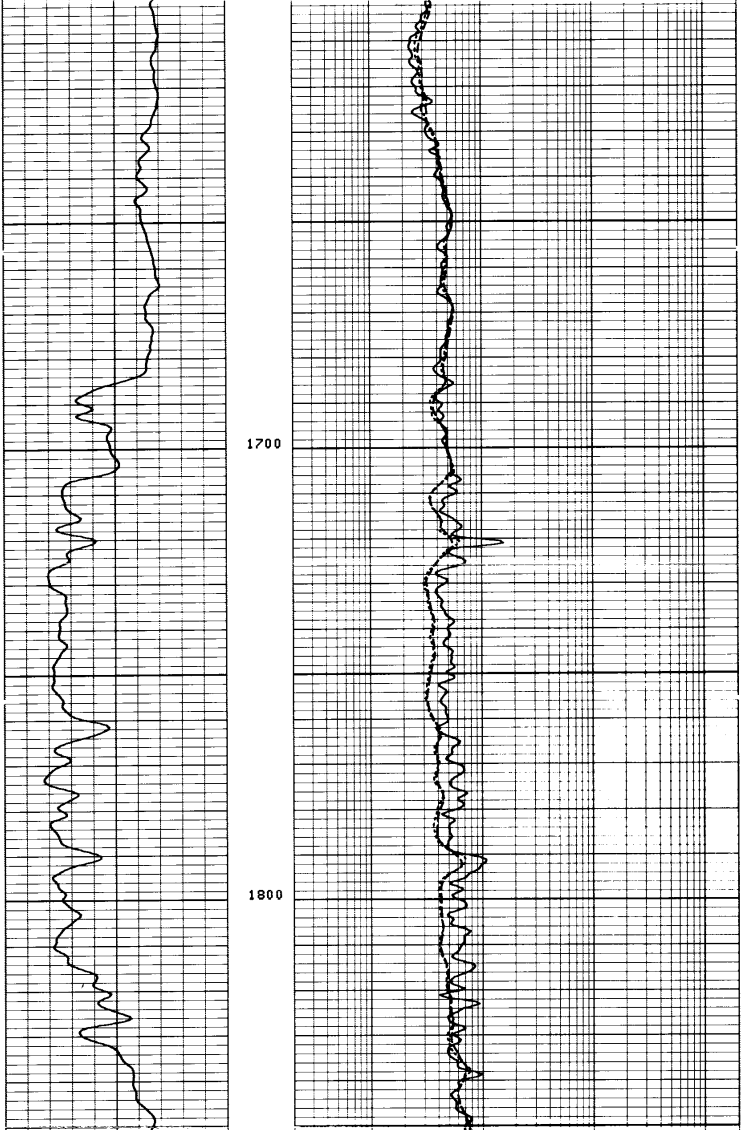


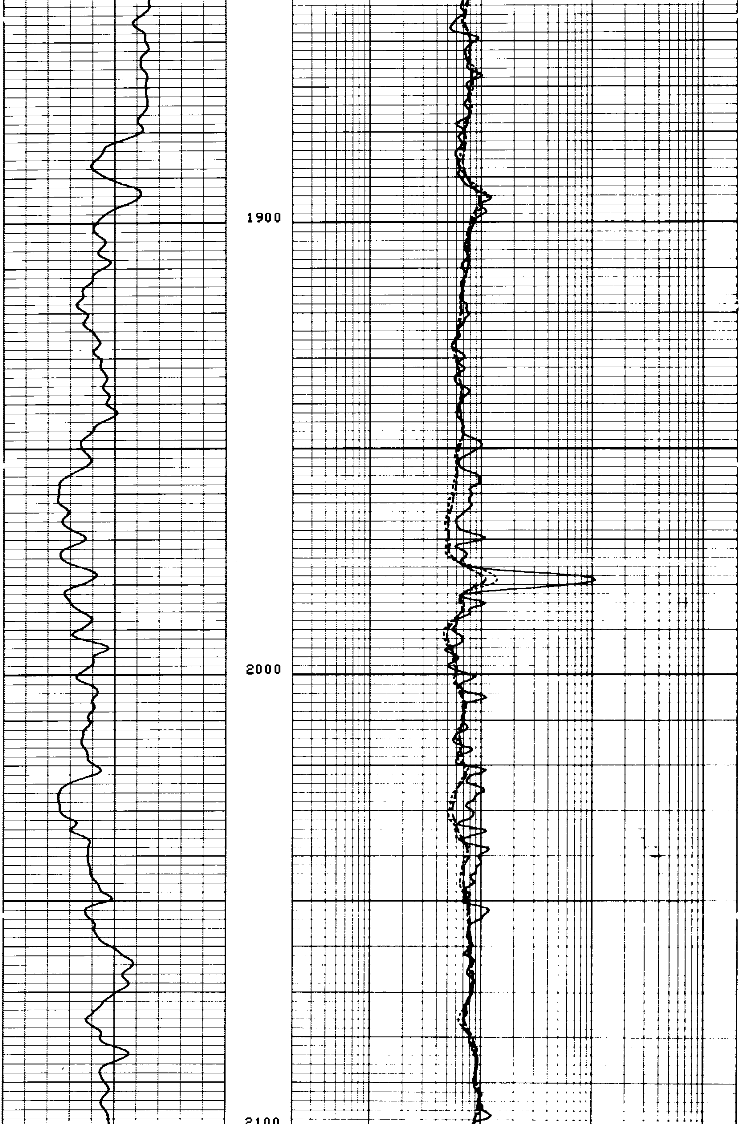


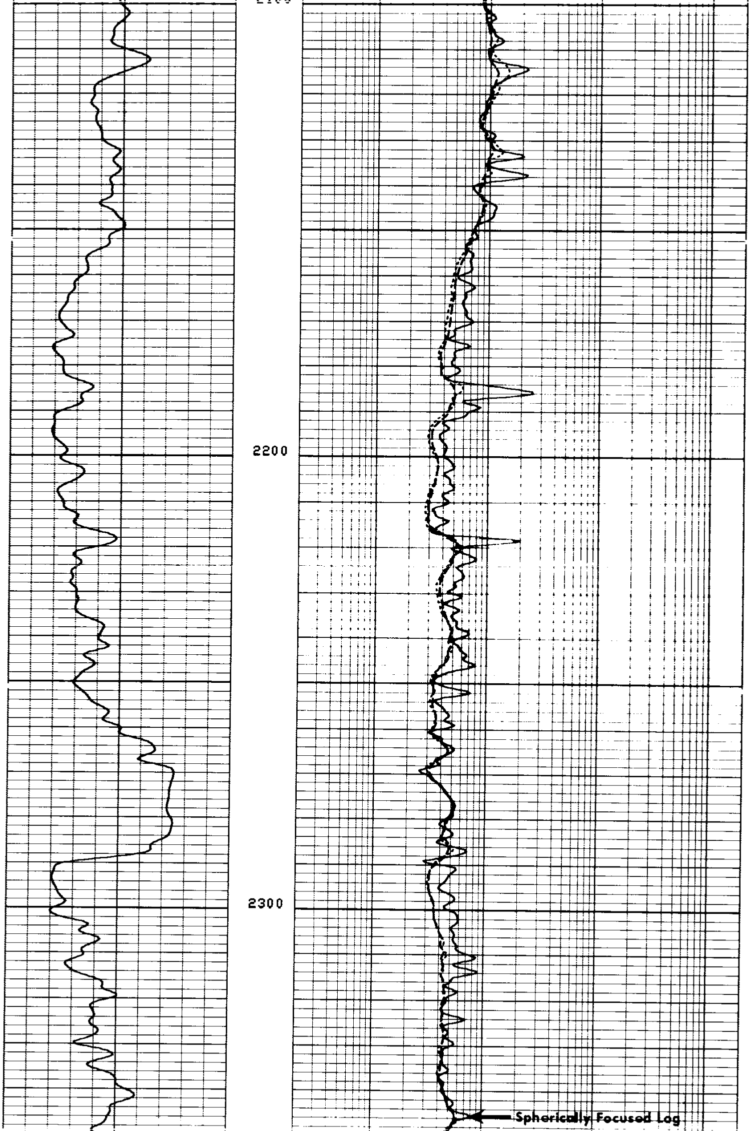


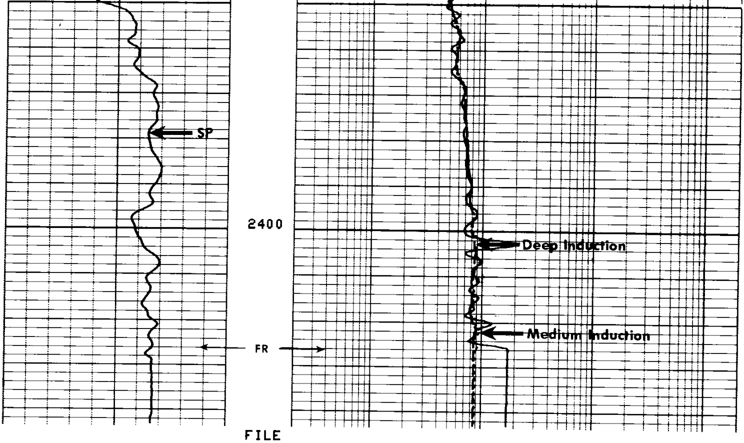












FILE

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SP (MV)		ILD (OHMM)	
		0.2000	2000.
		ILM (OHMM)	
		0.2000	2000.
		SFLU(OHMM)	
-100.0 / 0.0		0.2000	2000.

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
SBR	OHMM	1.000	DSEC	MM/M	4.710	BS	INCH	6.250
FPHI		PHIX	MSEC	MM/M	4.440			
DO		0.0	BHS		OPEN			

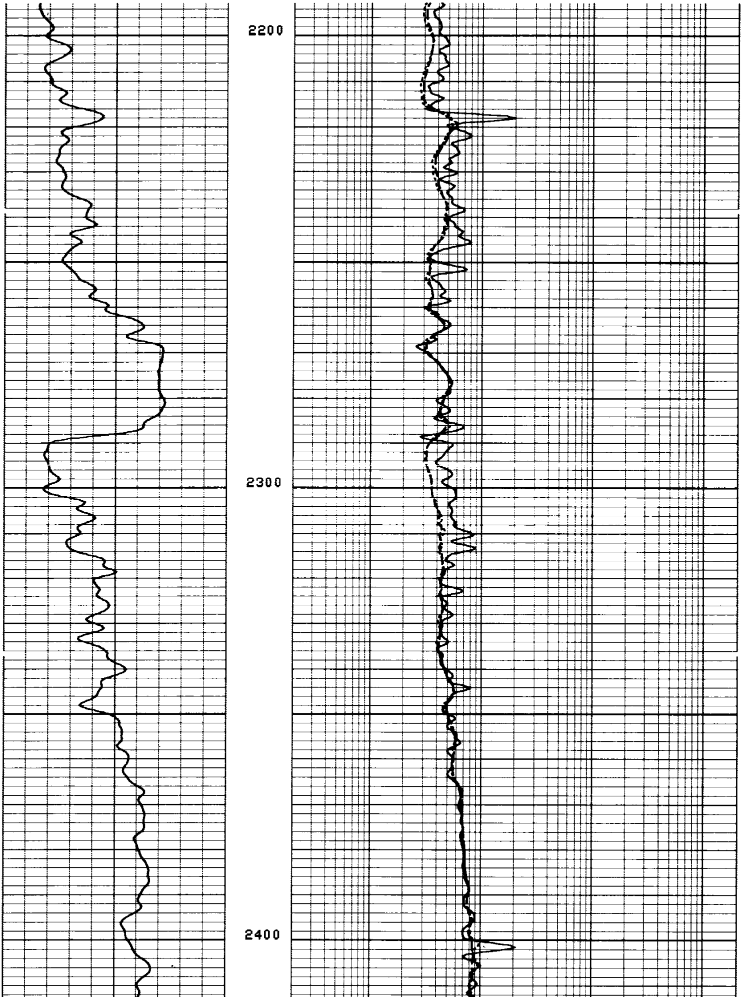
REPEAT SECTION REPEAT SECTION REPEAT SECTION

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
SBR	OHMM	1.000	DSEC	MM/M	4.710	BS	INCH	6.250
FPHI		PHIX	MSEC	MM/M	4.440			
DO		0.0	BHS		OPEN			

SP (MV)		ILD (OHMM)	
		0.2000	2000.
		ILM (OHMM)	
		0.2000	2000.
		SFLU(OHMM)	
-100.0 / 0.0		0.2000	2000.

FILE



```
                                                  ILD (OHMM)
                                   0.2000                                              2000.
                                                  ILM (OHMM)
                                   0.2000                                              2000.
      SP   (MV   )                                SFLU(OHMM)
-100.0                  0.0        0.2000                                              2000.
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                                    PARAMETERS

   NAME  UNIT  VALUE          NAME  UNIT  VALUE          NAME  UNIT  VALUE


   SBR   OHMM  1.000          DSEC  MM/M  4.710          BS    INCH  6.250
   FPHI        PHIX           MSEC  MM/M  4.440
   DO          0.0            BHS         OPEN
```

CALIBRATION RECORD

```
                BEFORE SURVEY CALIBRATION SUMMARY


    PERFORMED:      80/09/06
    PROGRAM FILE: ISN    (VERSION    18.2    80/ 4/29)


  DITD                  ELECTRONICS CALIBRATION SUMMARY

                  MEASURED                          CALIBRATED
                ZERO     PLUS                     ZERO        PLUS            UNITS
     ILD         5.6     496.6                     0.0        499.8            MM/M
     ILM         6.8     547.7                     0.0        500.0            MM/M
     SFL         2.0     521.5                     0.0        499.9            MM/M

  ILM   SONDE ERROR CORRECTION :          4.4    MM/M
  ILD   SONDE ERROR CORRECTION :          4.7    MM/M
                               FILE

                                  7




                AFTER SURVEY TOOL CHECK SUMMARY


    PERFORMED:      80/09/06
    PROGRAM FILE: ISN    (VERSION    18.2    80/ 4/29)


  DITD                           TOOL   CHECK

                         ZERO                               PLUS
                 BEFORE          AFTER            BEFORE        AFTER        UNITS
     ILD          0.0             0.0             499.8         496.2        MM/M
     ILM          0.0            -0.0             500.0         499.0        MM/M
     SFL          0.0            -0.0             499.9         499.0        MM/M

  ILM   SONDE ERROR CORRECTION :          4.4    MM/M
  ILD   SONDE ERROR CORRECTION :          4.7    MM/M
                               FILE

                    SHOP SUMMARY


    PERFORMED:      80/09/02
    PROGRAM FILE: SHOP   (VERSION    18.2    80/ 4/29)


  DITD                  ELECTRONICS CALIBRATION SUMMARY
```

	ELECTRONICS CALIBRATION				SONDE		
	MEASURED		CALIBRATED		ERROR	TEST	
	ZERO	PLUS	ZERO	PLUS	CORR.	LOOP	UNITS
ILD	5.5	496.3	0.0	499.8	4.71	495.1	MM/M
ILM	6.7	536.8	0.0	500.0	4.44	492.4	MM/M

(IS:35 , IC:47)

CALIBRATION RECORD

COMPANY AMERICAN QUASAR PETROLEUM COMPANY

WELL RAU NO. 18-14

FIELD MIST

COUNTY COLUMBIA STATE OREGON

SCHL. FR 2426

SCHL. TD 2432

DRLR. TD 2434

Elev: KB 593.5

DF --

GL 583.0