Scanned

Schlumberger

DUAL INDUCTION-SFL

SCANNED

COUNTY
FIELD
LOCATION
WELL
COMPANY

COMPANY American Quesar Petroleum Co

WELL Crown Zellerbach 15-14

FIELD Mist

COUNTY Columbia STATE Oregon

LOCATION

API SERIAL NO.	SEC.	TWP	RANGE
	15	6N	4W

Other Services:

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

Elev.: K.B.
D.F.
G.L.

Date	10/20/79			
Run No.	1			
Depth—Driller	3219			
Depth—Logger (Schl.)	3207			
Btm. Log Interval	3206			
Top Log Interval	515			
Casing—Driller	7 @ 515	@	@	@
Casing—Logger	515			
Bit Size	6 1/4			
Type Fluid in Hole	Caustic QBrown			
Dens.	9.4			
Visc.	50			
pH	10.5			
Fluid Loss	5 ml	ml	ml	ml
Source of Sample	Pit			
Rm @ Meas. Temp.	5.45 @ 54 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	5.95 @ 44 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.8 @ 50 °F	@ °F	@ °F	@ °F
Source: Rmf	M			
Source: Rmc	M			
Rm @ BHT	3.38 @ 87 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	1900			
TIME Logger on Bottom	2330			
Max. Rec. Temp.	87 °F	°F	°F	°F
Equip.	8126			
Location	SAC			
Recorded By	Andersen			
Witnessed By Mr.	Newman			

SW8-2510-A

FOLD HERE

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

Run No.	1			
Service Order No.	31689			
Fluid Level	Full			
Speed F.P.M.	70			
Salinity ppm. cl				
EQUIPMENT DATA				
Panel	CSU			
Cartridge	26			
Sonde	18			
Memorizer Panel	—			
Centralizer Type	—			
Stand-off - Inches	—			
G.R. Panel	—			
CALIBRATION DATA				
SBR	1			
ILD Sonde Error	8.91			
ILM Sonde Error	4.32			
S.E. Set In Hole - Depth				
S.E. Corr. - Hole Size				
G.R. Background				
G.R. Source				
T.C. - Cal.				
LOGGING DATA				
SBR	1			
ILD Sonde Error Log	8.91			
ILM Sonde Error Log	4.32			
G.R. Scale per 100 Div.				
G.R. - T.C. Log				

SCALE CHANGES

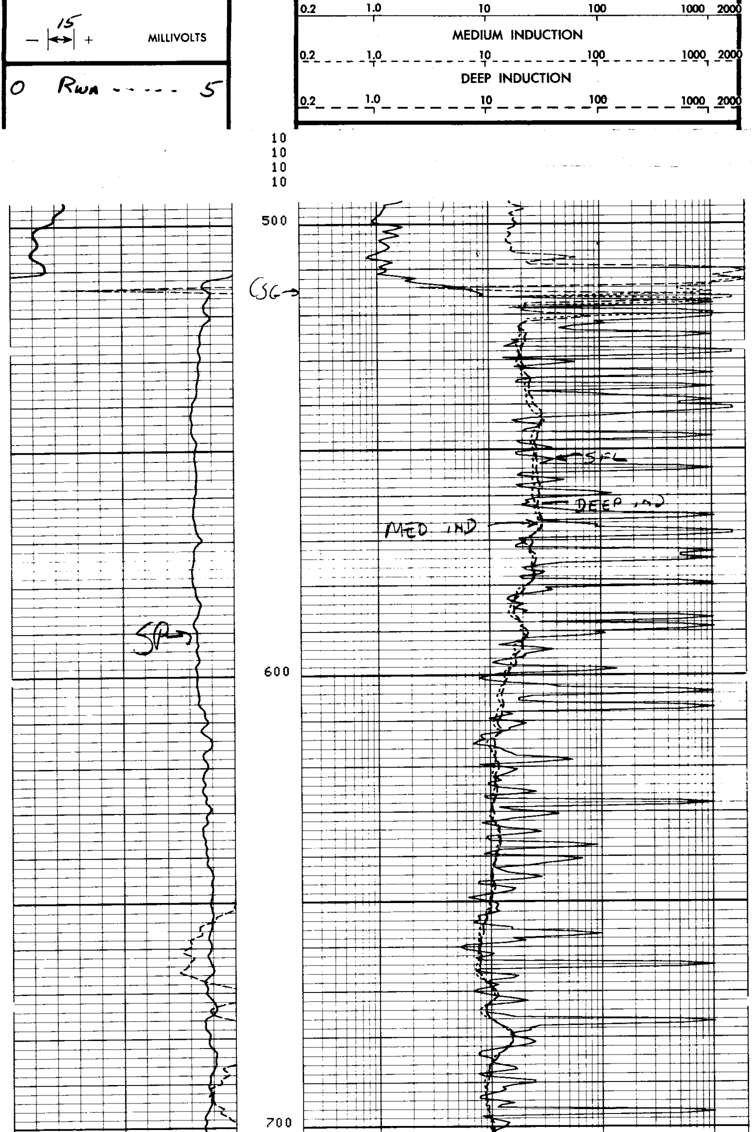
Type Log	DEPTH	Scale Up Hole	Scale Down Hole

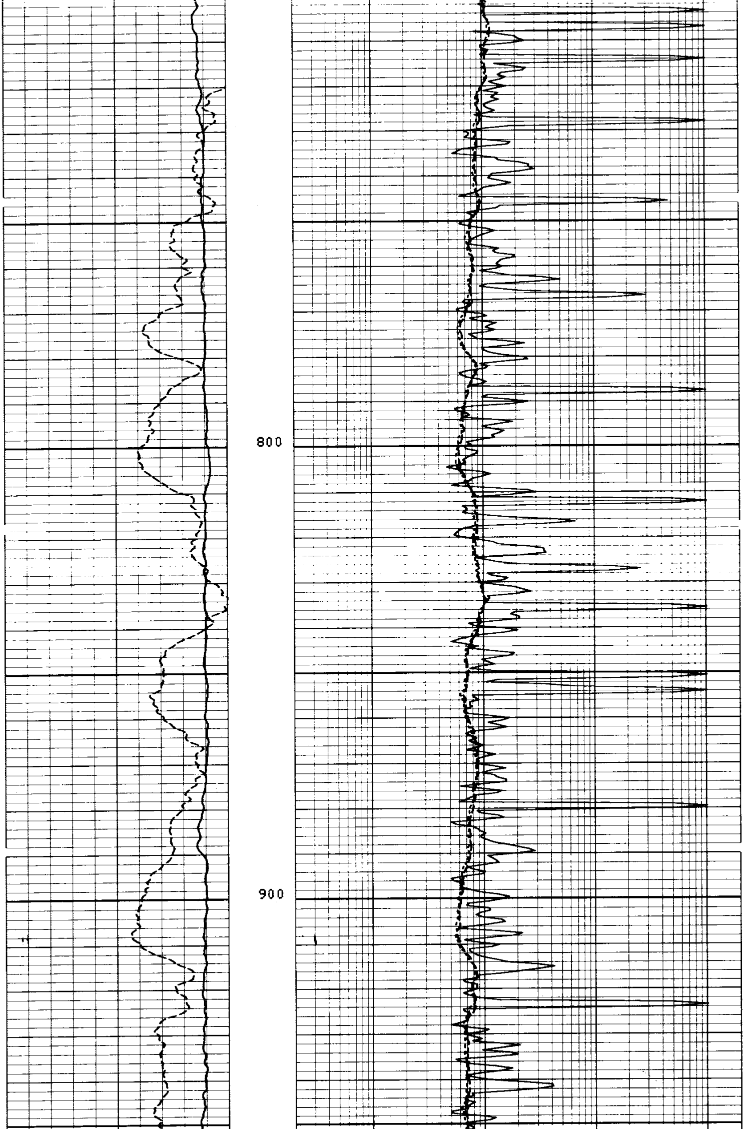
REMARKS

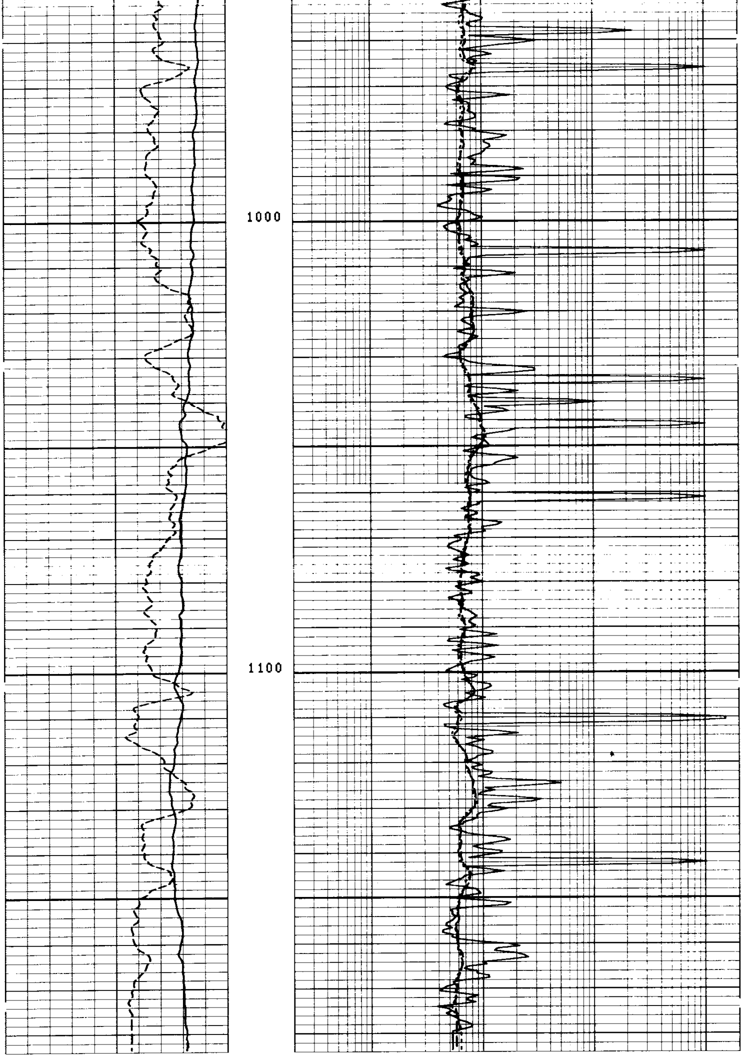
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS-POTENTIAL

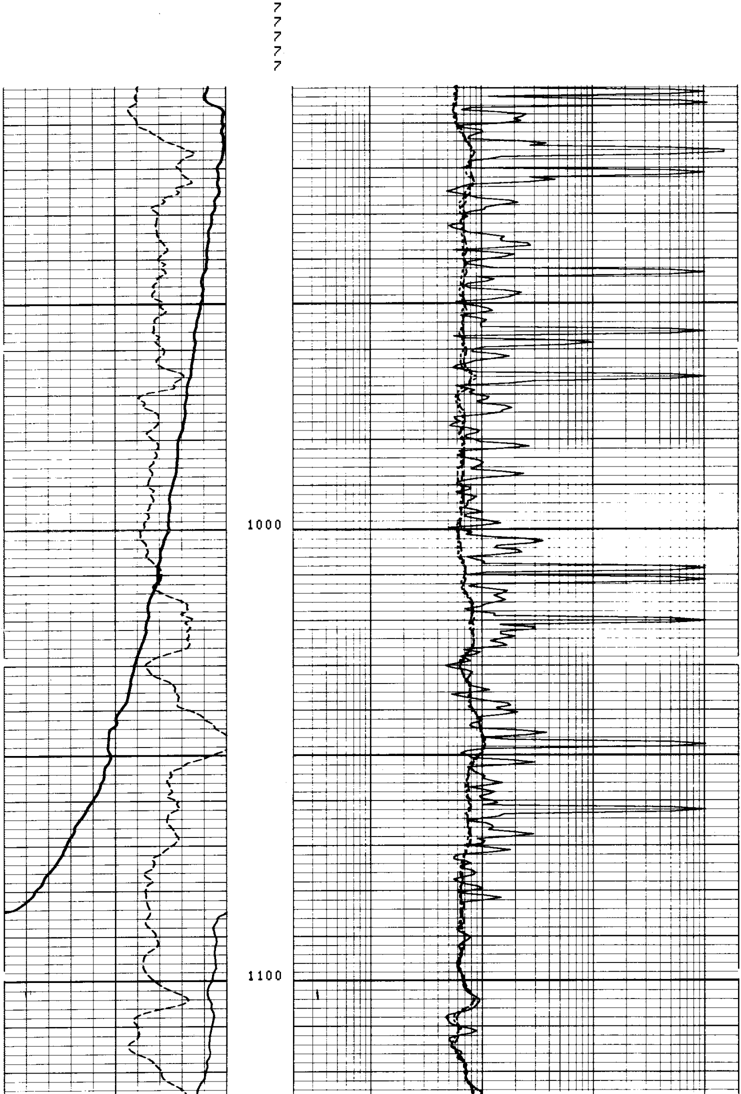
RESISTIVITY OHMS. M²/M
SPHERICALLY FOCUSED LOG

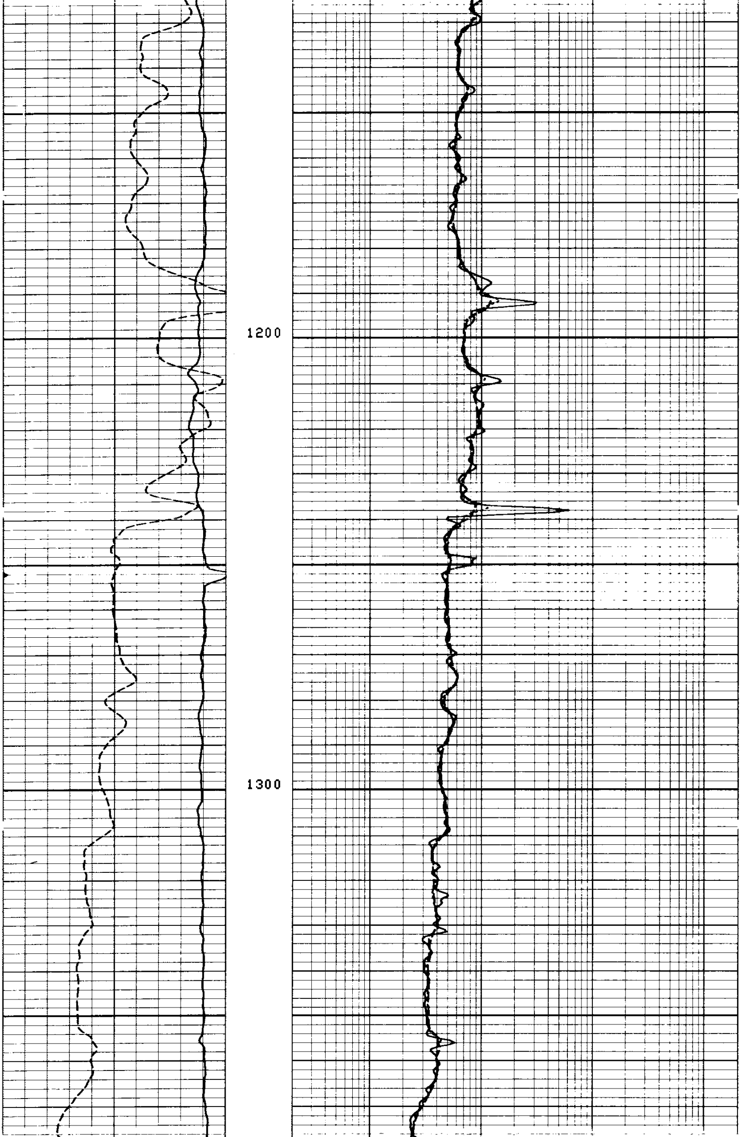


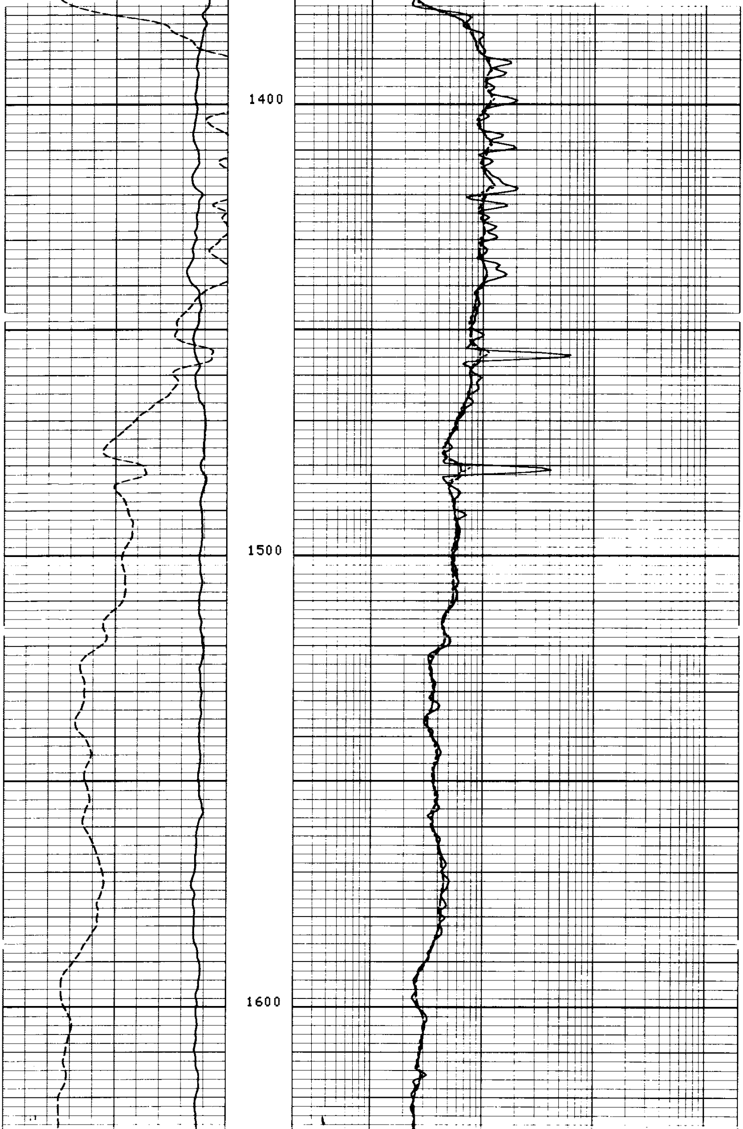


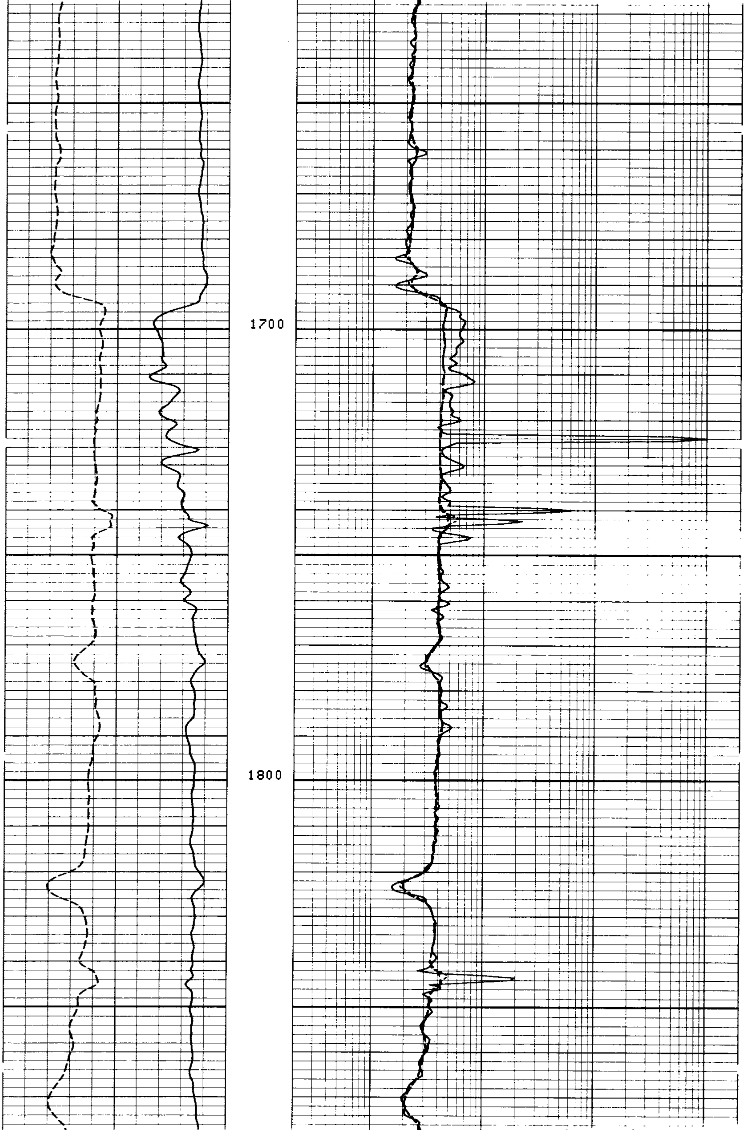


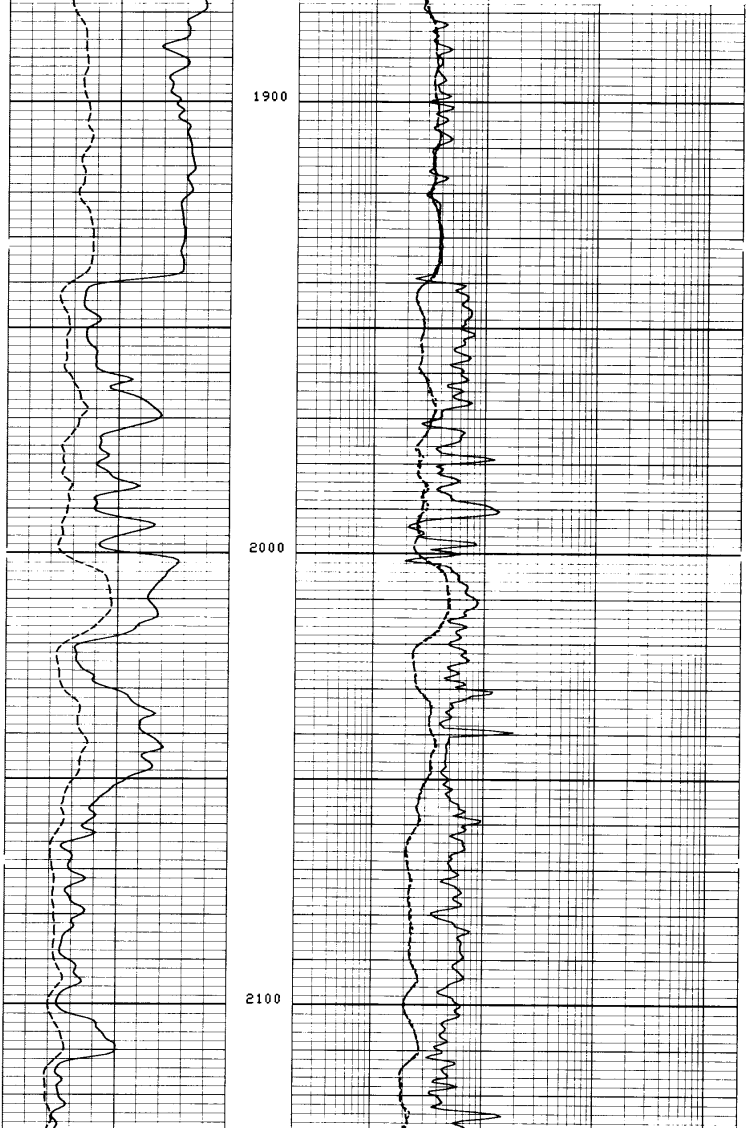
10
10
10
10
10
10

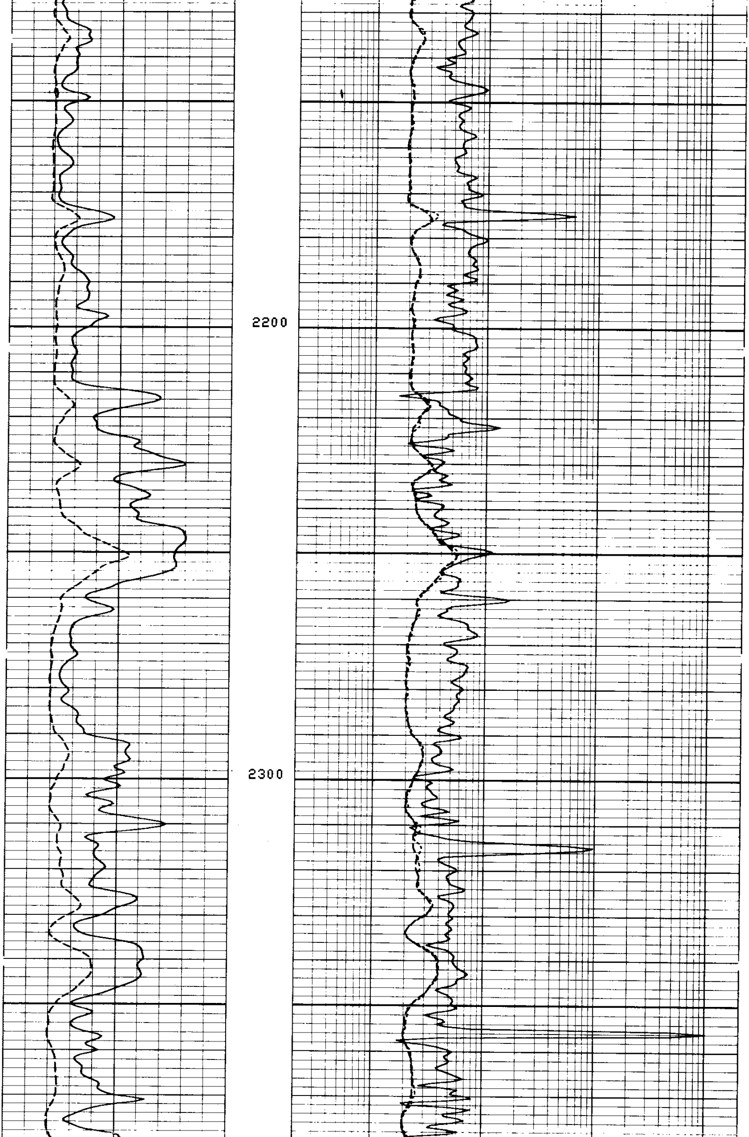


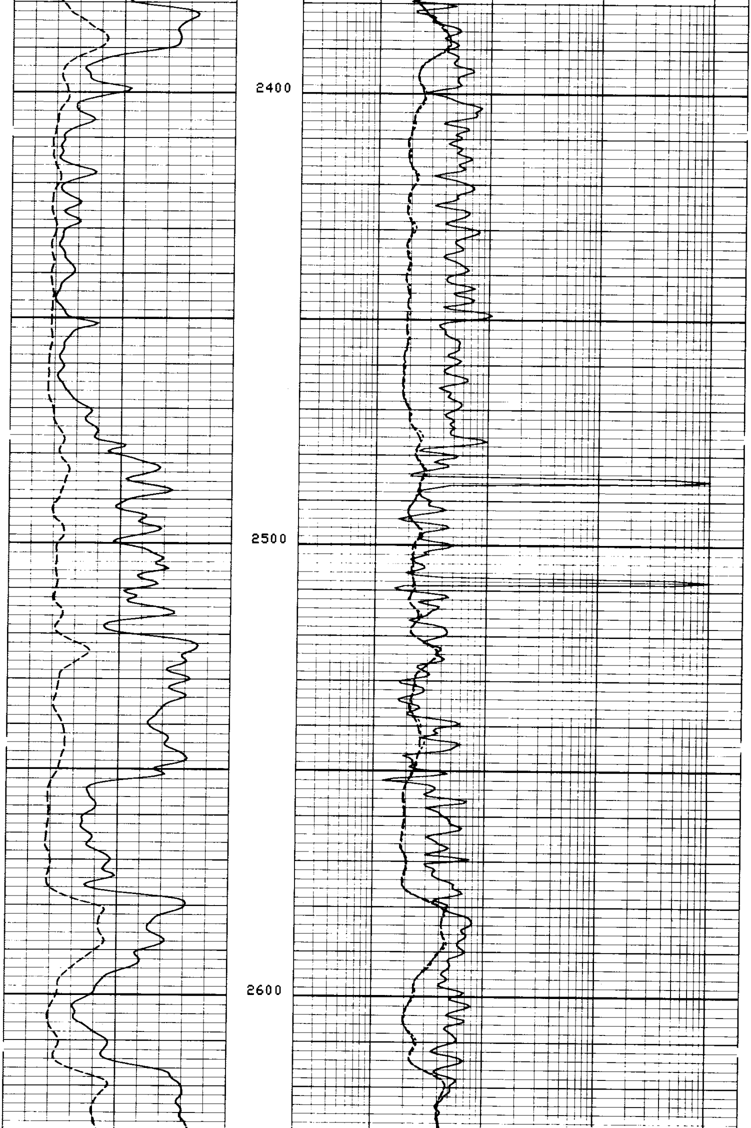


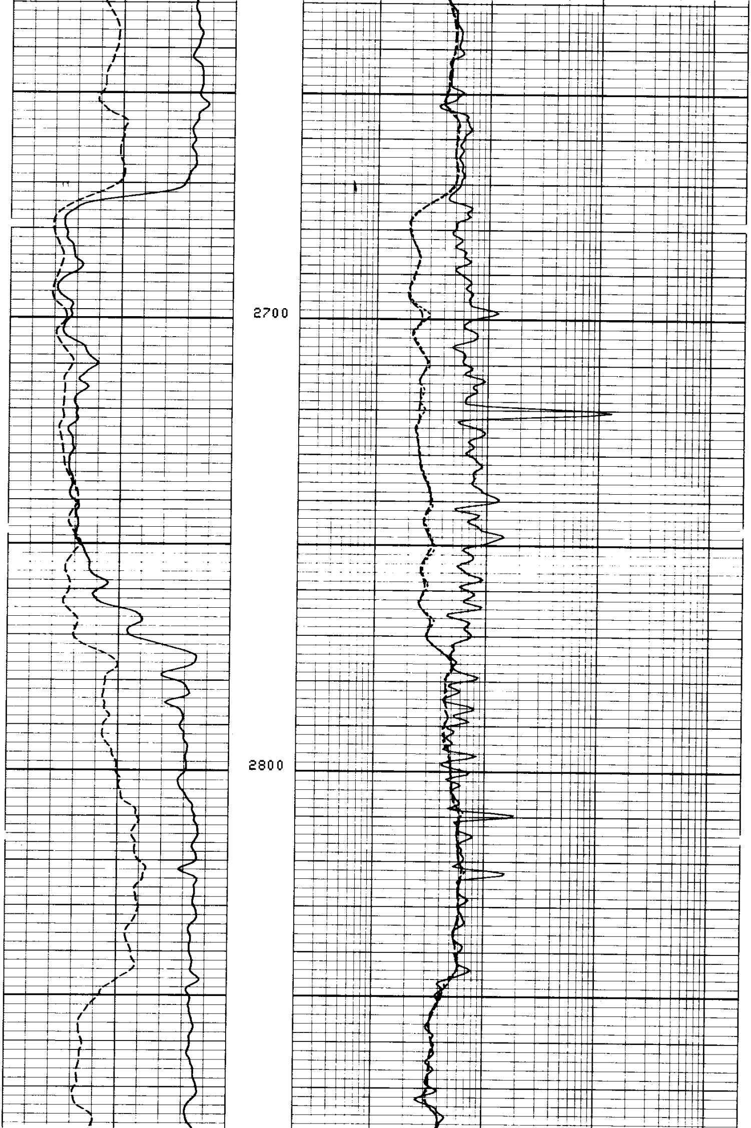


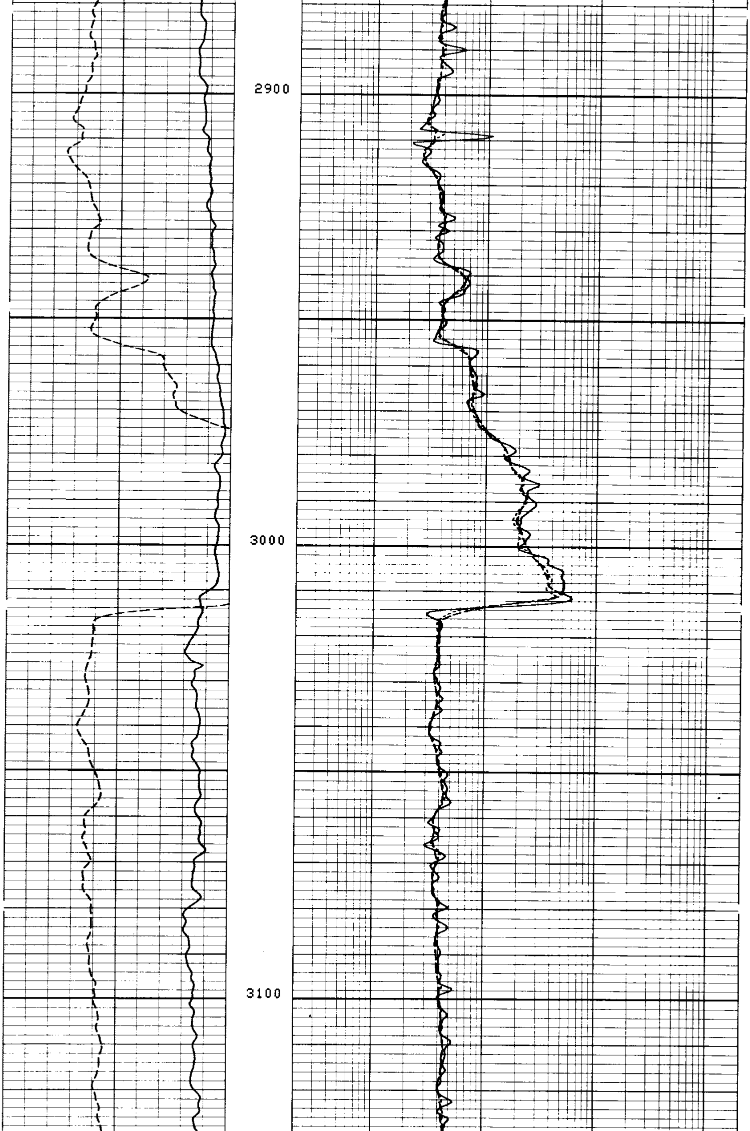


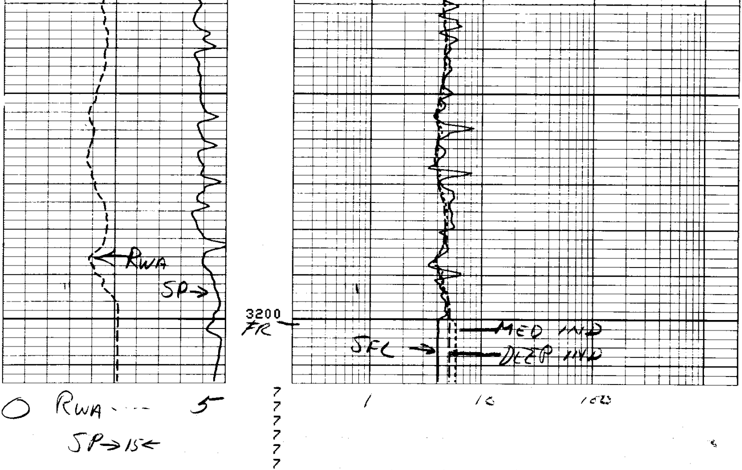












```
             AFTER SURVEY TOOL CHECK SUMMARY
                      10

  PERFORMED:      79/10/20
  PROGRAM FILE:   IS       (VERSION     14.4     79/09/05)


DITD                        TOOL   CHECK

                    ZERO                        PLUS
            BEFORE          AFTER          BEFORE      AFTER      UNITS
    ILD       0.0            -0.1           499.8       497.2      MM/M
    ILM       0.0             0.2           499.9       497.8      MM/M
    SFL       0.0            -0.5           499.9       499.5      MM/M

ILM  SONDE ERROR CORRECTION :           4.3    MM/M
ILD  SONDE ERROR CORRECTION :           8.9    MM/M
                             12
                             12

             BEFORE SURVEY CALIBRATION SUMMARY


  PERFORMED:      79/10/20
  PROGRAM FILE:   IS       (VERSION     14.4     79/09/05)


DITD                  ELECTRONICS CALIBRATION SUMMARY

              MEASURED                         CALIBRATED
            ZERO     PLUS                   ZERO        PLUS           UNITS
    ILD     -1.5     560.1                   0.0        499.8           MM/M
    ILM      3.0     539.3                   0.0        499.9           MM/M
    SFL      0.2     546.0                   0.0        499.9           MM/M

ILM  SONDE ERROR CORRECTION :           4.3    MM/M
ILD  SONDE ERROR CORRECTION :           8.9    MM/M
                              4
                              4

              SHOP SUMMARY

  PERFORMED:      79/10/01
  PROGRAM FILE:   SHOP     (VERSION     14.4     79/09/05)


DITD                  ELECTRONICS CALIBRATION SUMMARY

              ELECTRONICS CALIBRATION            SONDE
            MEASURED           CALIBRATED        ERROR      TEST
           ZERO     PLUS      ZERO       PLUS    CORR.      LOOP         UNITS
    ILD    -1.2     562.3      0.0      499.8    8.91      567.0        MM/M
    ILM     2.8     540.4      0.0      499.9    4.32      535.9        MM/M

                          (IS:18    , IC:26     )
```