COUNTY	COLUMBIA
FIELD	MIST
LOCATION	1385'E AND 274'S
WELL	FISHHAWK/WILSON 11A-5-65 RD#1
COMPANY	NAHAMA AND WEAGANT ENERGY CO

Schlumberger

DUAL INDUCTION-SFL
BHC SONIC
FIVE INCH LOG

COMPANY NAHAMA AND WEAGANT ENERGY CO.

WELL FISHHAWK/WILSON 11A-5-65 RD#1

FIELD MIST

COUNTY COLUMBIA **STATE** OREGON

LOCATION 1385'E AND 274'S

FROM THE NW CORNER OF

Other Services:
DIL-BHC-GR
TVD
THANK YOU

API SERIAL NO.	SECT.	TWP.	RANGE
36-009-00296	5	6N	5W

Permanent Datum	GL	Elev.	604.0 F	Elev.: K.B.615.0 F
Log Measured From	KB	11.0 F	above Perm. Datum	D.F.
Drilling Measured From	KB			G.L.604.0 F

Date	25-OCT-92				
Run No.	ONE				
Depth Driller	2770.0 F				
Depth Logger (Schl.)	2769.0 F				
Btm. Log Interval	2763.0 F				
Top Log Interval	509.0 F				
Casing-Driller	8.625	@ 509.0 F	@		@
Casing-Logger	509.0 F				
Bit Size	7.875	@ 2770.0 F	@		@
Type Fluid in Hole	GEL DRISPAC				
Dens. / Visc.	10.00 LB/G	45.0 S			
pH / Fld. Loss	8.5	6.0 C3			
Source of Sample	FLOWLINE				
Rm @ Meas. Temp.	1.990 OHMM	@ 72.0 DEGF		@	
Rmf @ Meas. Temp.	2.440 OHMM	@ 60.0 DEGF		@	
Rmc @ Meas. Temp.	2.190 OHMM	@ 60.0 DEGF		@	
Source: Rmf / Rmc	MEAS	MEAS			
Rm @ BHT	1.497 OHMM	@ 98.0 DEGF		@	
TIME Circulation Ended	25-OCT-92 10:00				
TIME Logger on Bottom	25-OCT-92 12:30				
Max. Rec. Temp.	98.0 DEGF				
Equip. / Location	8504	SACRAMENTO			
Recorded By	JOHN LOPEZ				
Witnessed By	LUCAS / PINOTTI				

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

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 interpretations 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.

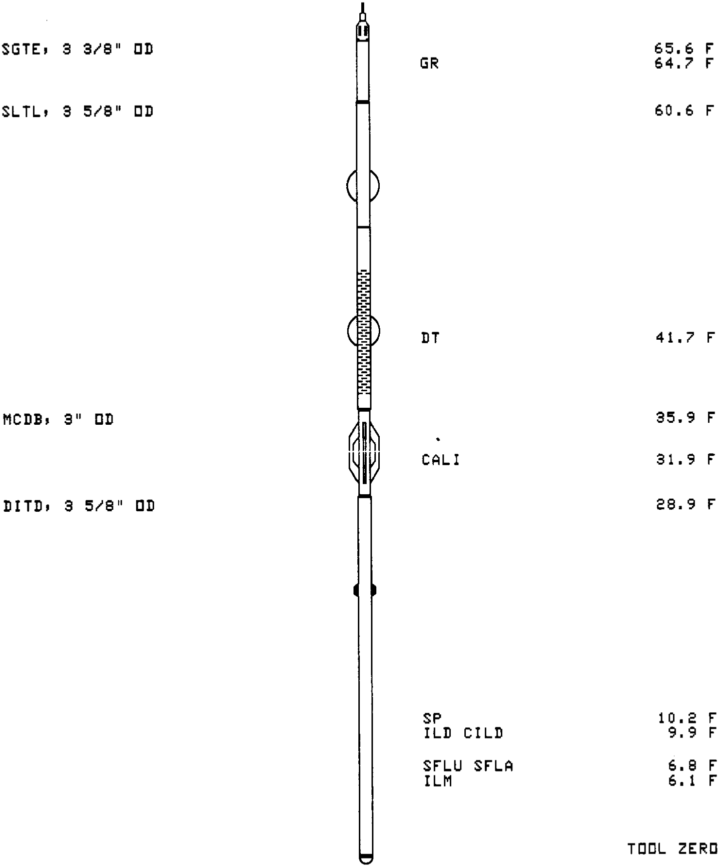
Run No.	ONE		
Service Order No.	595174		
Drilling Fluid Level	20.0 F		
Salinity	1050.0 PPM		
Rmf @ BHT	1.557 OHMM	@ 98.0 DEGF	@
Rmo @ BHT	1.397 OHMM	@ 98.0 DEGF	@
Logging Speed	3600.0 F/HR		
EQUIPMENT DATA			
Tool Number 1	DIS-EC 298		
Tool Number 2	DIC-EB 1078		
Tool Number 3	SLC-MA 1326		
Tool Number 4	SLS-WA 1429		
Tool Number 5	SGC-JC 660		
Tool Number 6	MCD-DA 663		
Tool Number 7	SLM-DA 428		
Tool Number 8	NLM-BC 418		
Tool Number 9	IEM-BD 304		
Tool Number 10			
Tool Number 11			
Tool Number 12			

REMARKS:

TWO CMEZ'S AND ONE STANDOFF RUN TO
CENTRALIZE SONIC
TWO RUBBER STANDOFFS RUN ON DIL

HOLE DEVIATED 18.75 DEGREES AT 2400'
TAYLOR DRILLING RIG #7
HOLE SIDETRACKED AT 592'
THANK YOU FOR USING SCHLUMBERGER

LOGGING TOOL STRING SKETCH



```
TOTAL TOOL STRING LENGTH IS 69.2 F.
TOTAL TOOL STRING WEIGHT IS 993. LB IN AIR.
```

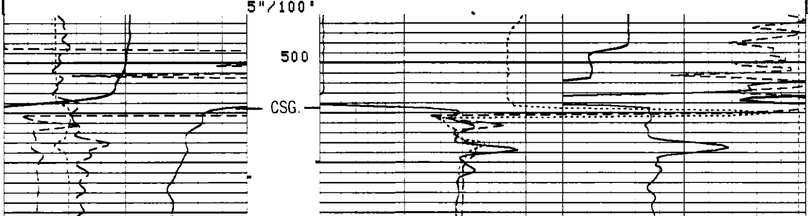
MAIN LOG

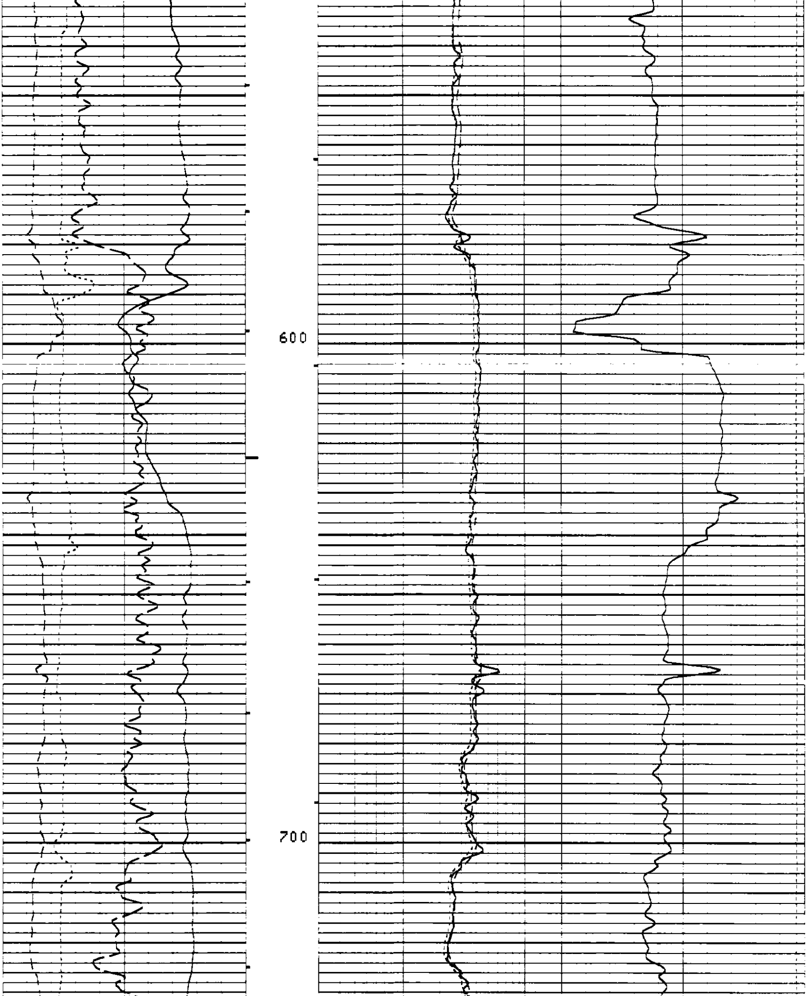
```
ACCUMULATED INTEGRATION VALUES SUMMARY:

Integrated Hole Volume:   745.668 F3    FROM 2770.00 F    TO 509.000 F
Integrated Cement Volume: 372.630 F3    FROM 2770.00 F    TO 509.000 F
  (ASSUMING 5.50000 IN   O.D. CASING)
Integrated Transit Time:  .278788 S     FROM 2770.00 F    TO 509.000 F
```

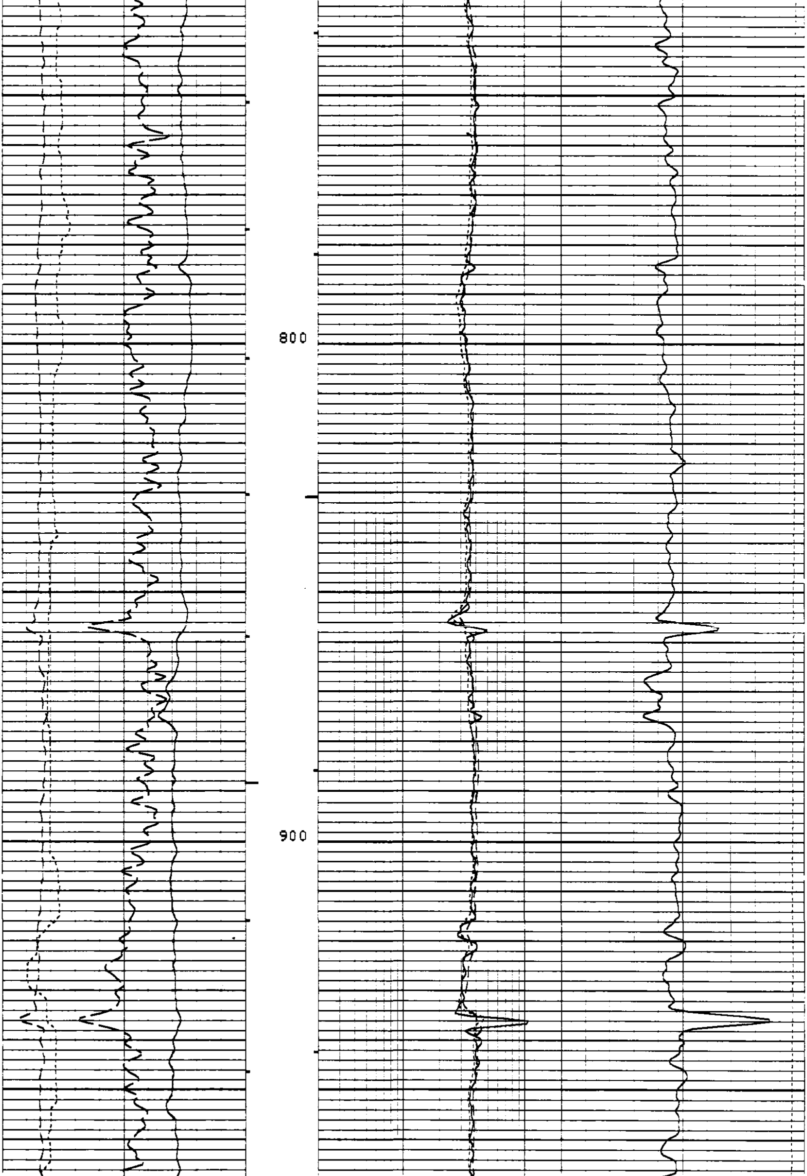
```
EVENT MARK SUMMARY:

OUTPUT                      INTERVAL          DEPTH TRACK
                            BETWEEN PIPS      EDGE

Integrated Hole Volume      10.0000 F3        LEFT EDGE
Integrated Cement Volume    10.0000 F3        RIGHT EDGE
```

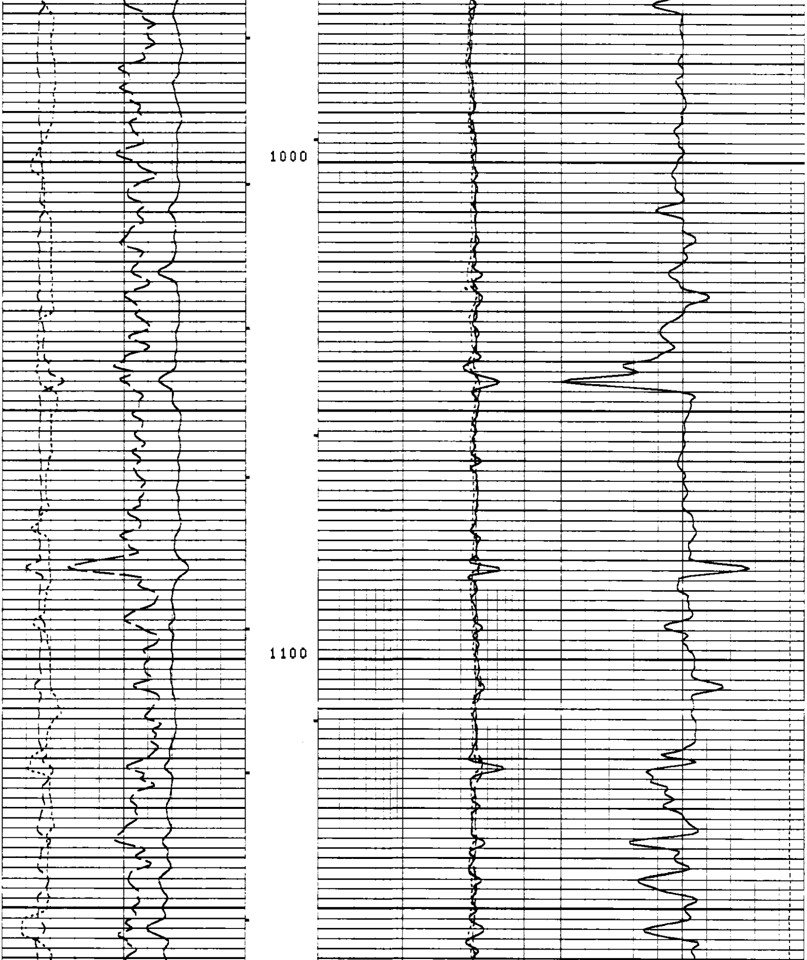
RWA(OHMM)	0.0	3.0000
CALI(IN)	6.0000	16.000
GR(GAPI)	0.0	150.00
SP(MV)	-100.0	0.0
TENS(LBF)	20500.	500.00
DT(US/F)	175.00	75.000
ILD(OHMM)	.20000	2000.0
ILM(OHMM)	.20000	2000.0
SFLU(OHMM)	.20000	2000.0

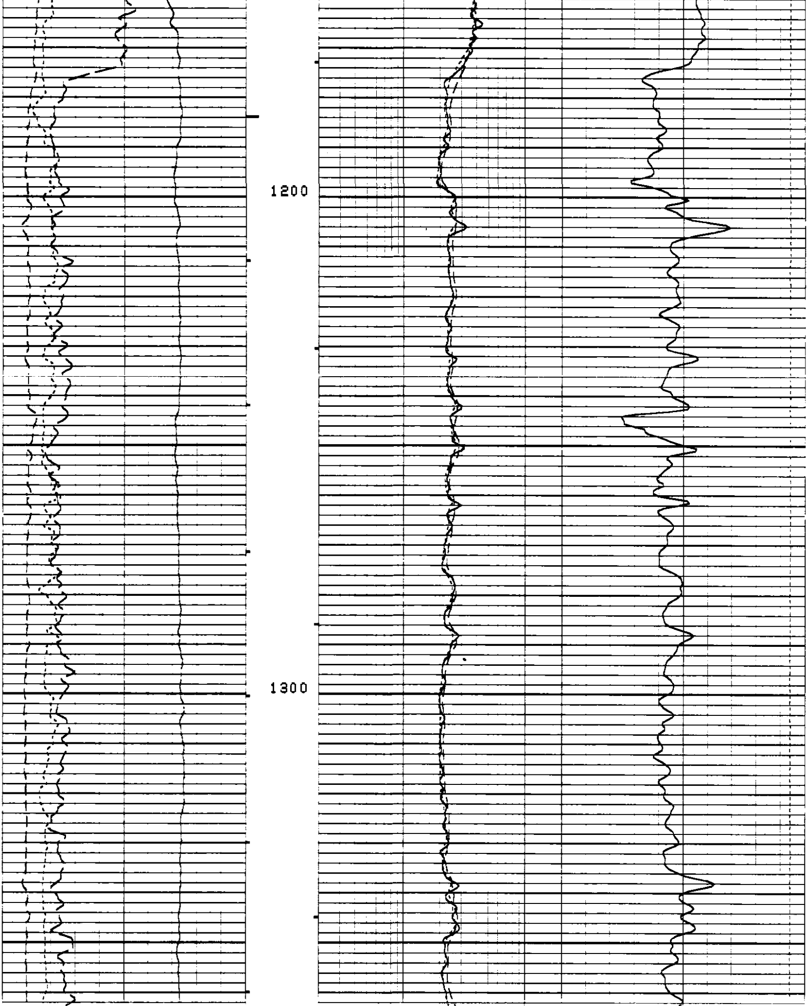
```
CP 32.6            FILE    17       25-OCT-1992 13:10     (UP)
```

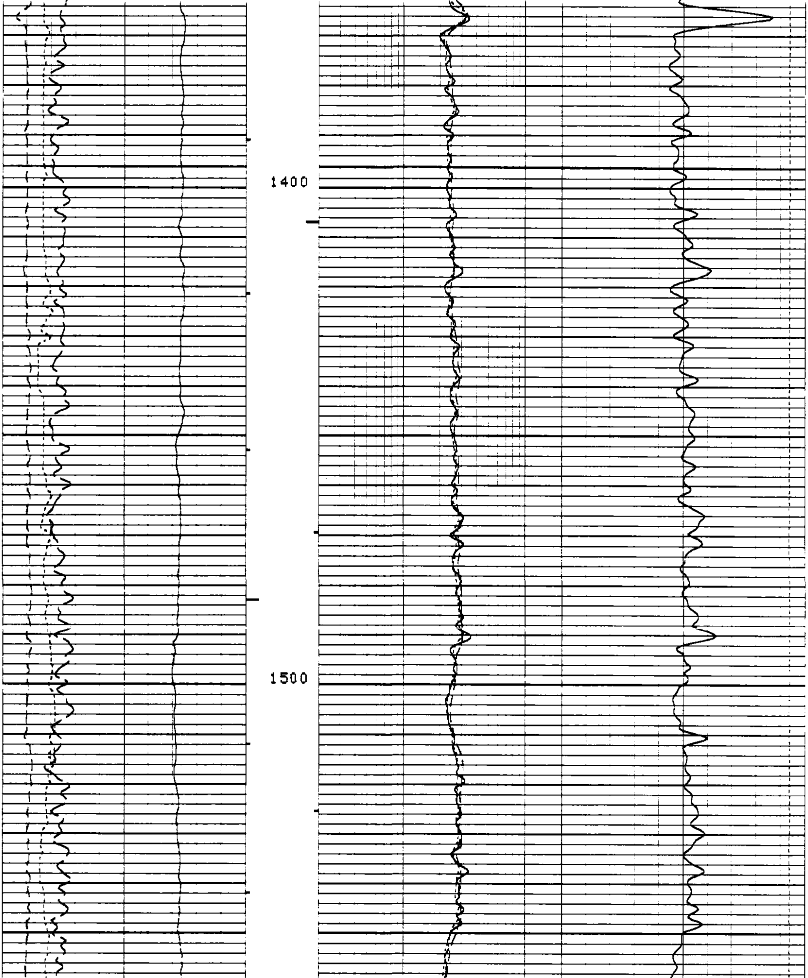


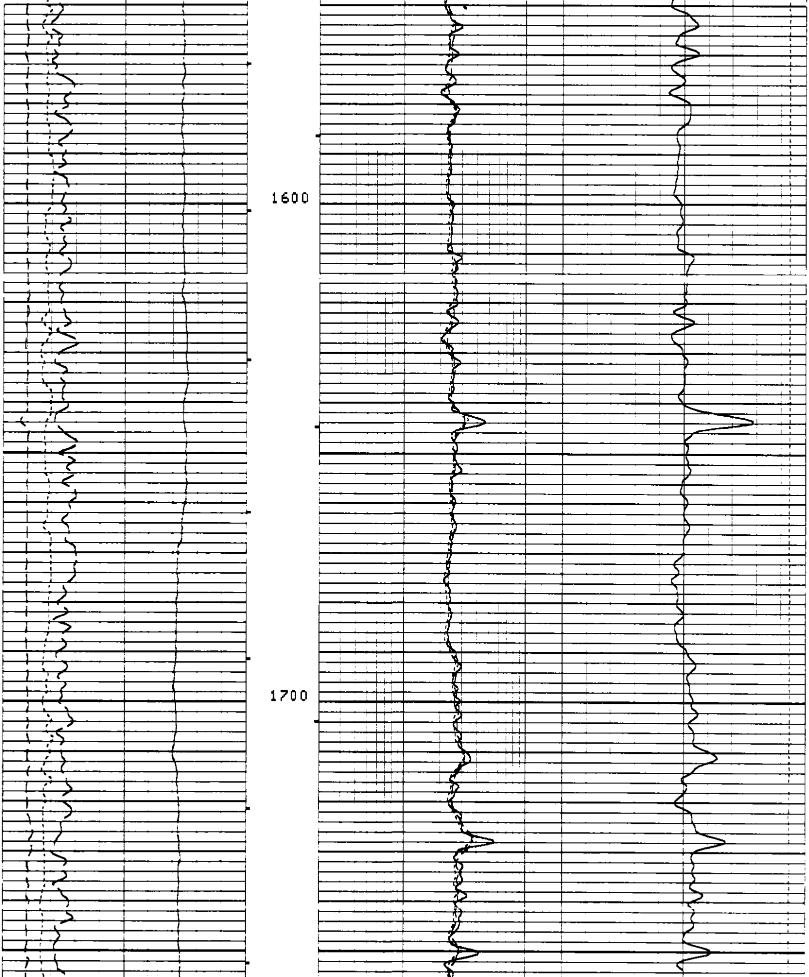


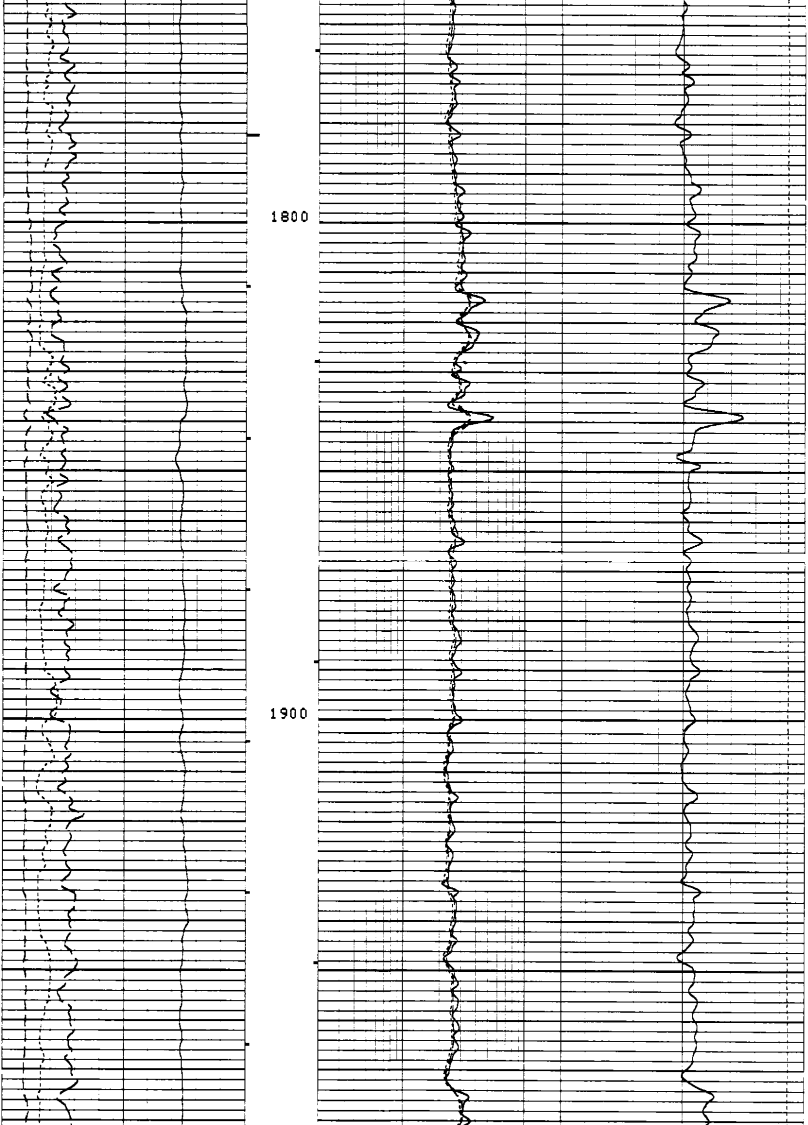


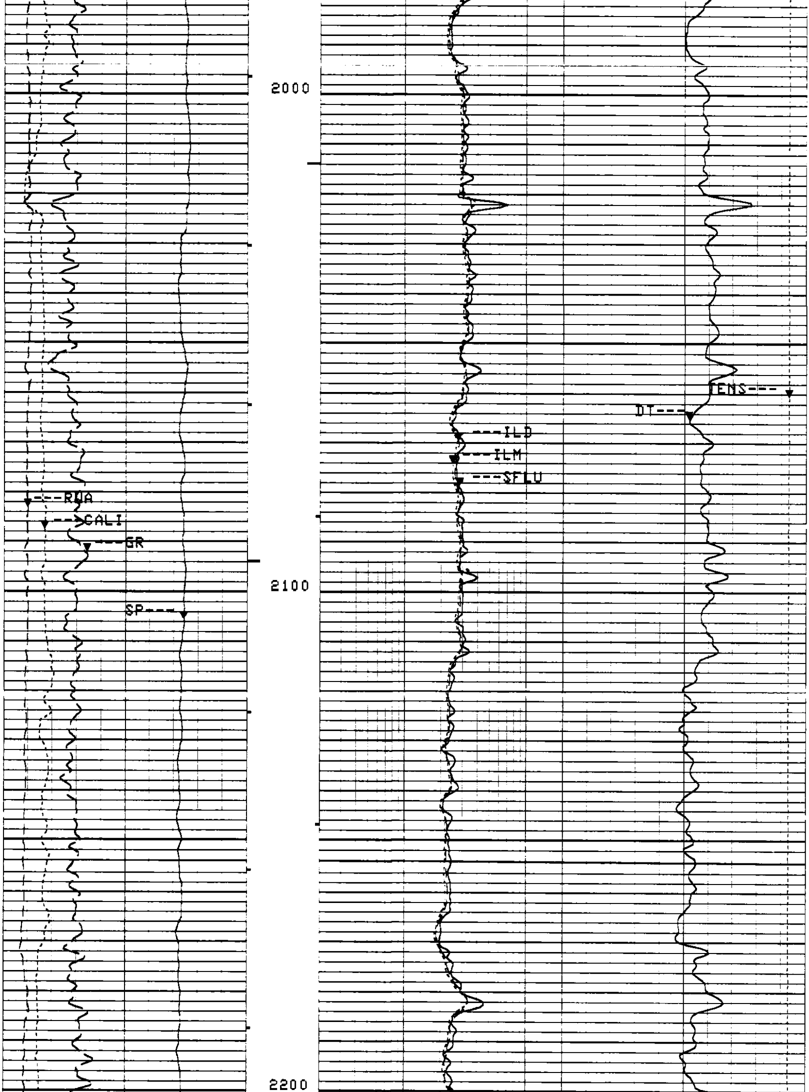


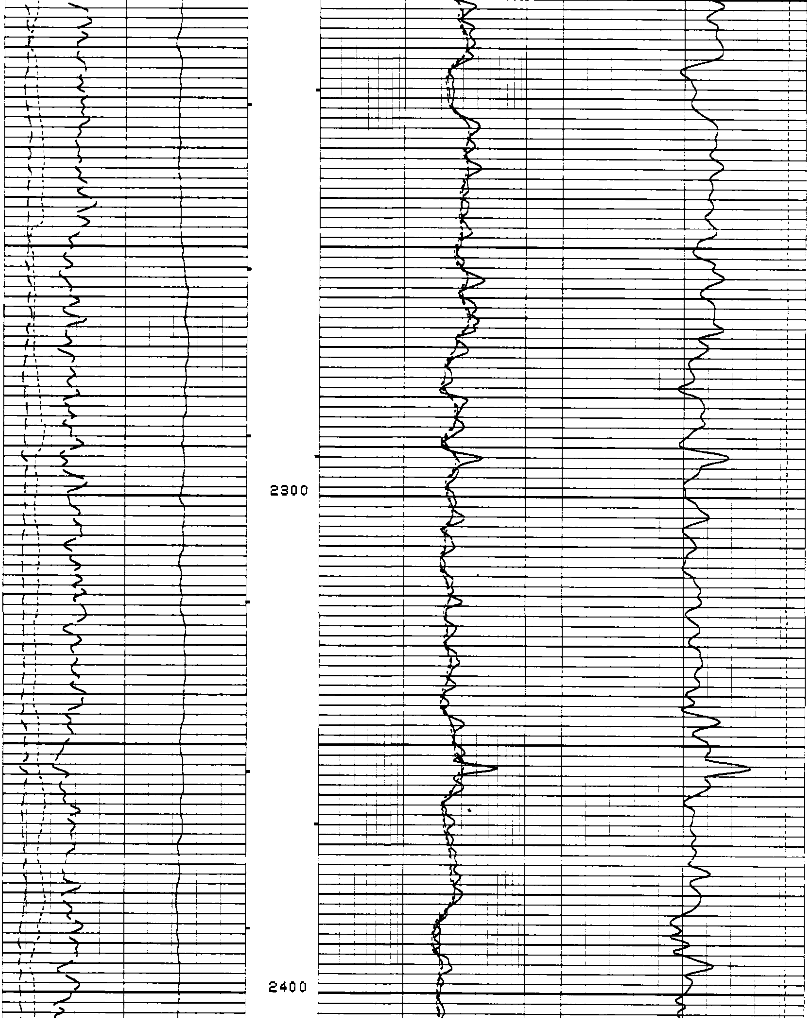


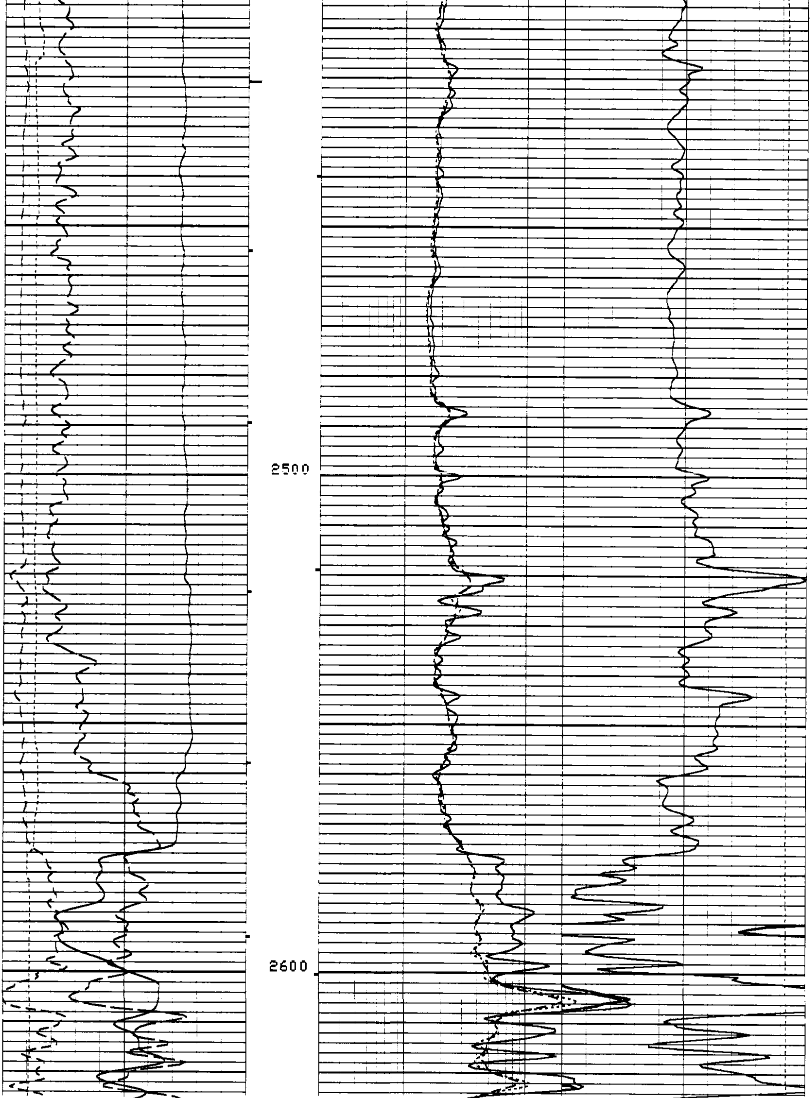


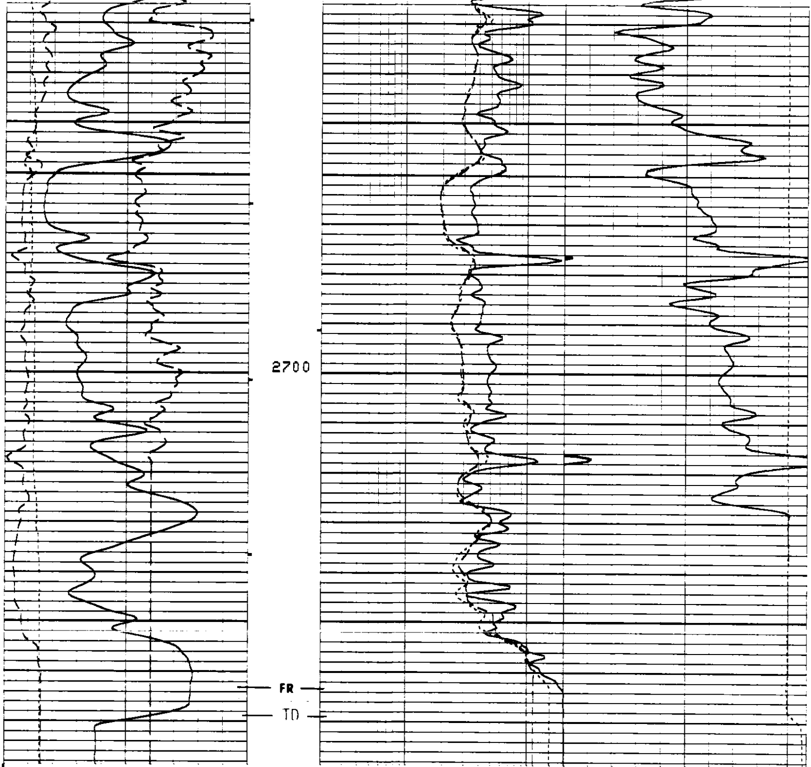












5"/100'

CP 32.6 FILE 17 25-OCT-1992 12:27 (UP)

TENS(LBF)
20500. 500.00

DT(US/F)
175.00 75.000

RWA(OHMM)
0.0 3.0000

CALI(IN)
6.0000 16.000

GR(GAPI)
0.0 150.00

SP(MV)
-100.0 0.0

ILD(OHMM)
.20000 2000.0

ILM(OHMM)
.20000 2000.0

SFLU(OHMM)
.20000 2000.0

SENSOR MEASURE POINT TO TOOL ZERO

SRAT	41.7	FEET	AMPL	44.1	FEET
CBFS	43.1	FEET	CBL	44.1	FEET
TT2	44.1	FEET	TT1	43.1	FEET
TT4	39.3	FEET	TT3	40.3	FEET
TT	44.1	FEET	TO	44.1	FEET
CBSL	44.1	FEET	TTSL	44.1	FEET
CALI	31.9	FEET	GR	62.7	FEET
ILM	6.1	FEET	ILD	9.9	FEET
SP	2.5	FEET	SFL	6.8	FEET
TENS	2.5	FEET	SPAR	2.5	FEET
NOIS	2.5	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
SMB	DISA		TOCA	DISA	
RATE	15	HZ	DG	/5	
DETE	E2		AMPL	2	
CBL	UT		WFM	1	
SS	FAST		TOD	DISA	
DTF	189.000	US/F	DTM	56.0000	US/F
CDTS	100.000		SPFS	R-H	
WMUD	10.0000	LB/G	MSEC	5.90000	MM/M
SBR	1.00000	OHMM	DSEC	6.60000	MM/M
FCD	5.50000	IN	NCJT	GSRY	
FPHI	SPHI		DWCO	512	
DSIN	5	US	DDEL	200	US
BS	7.87500	IN	BHS	OPEN	

REPEAT SECTION

ACCUMULATED INTEGRATION VALUES SUMMARY:

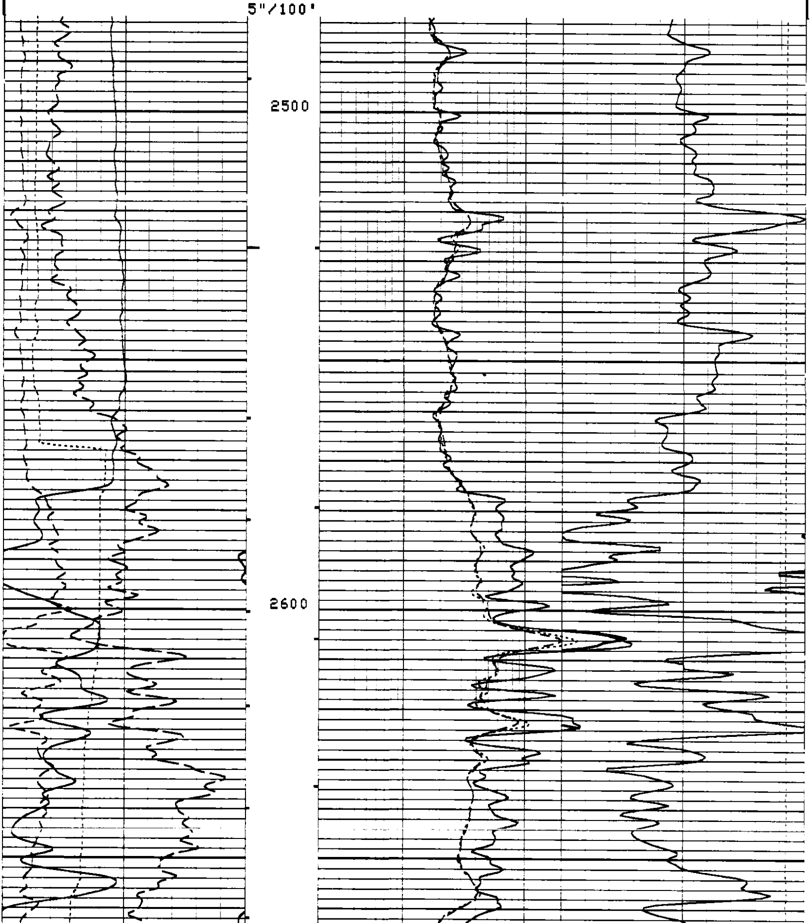
```
Integrated Hole Volume:    113.873 F3    FROM 2770.00 F    TO 2480.50 F
Integrated Cement Volume: 66.1096 F3    FROM 2770.00 F    TO 2480.50 F
  (ASSUMING 5.50000 IN   O.D. CASING)
```

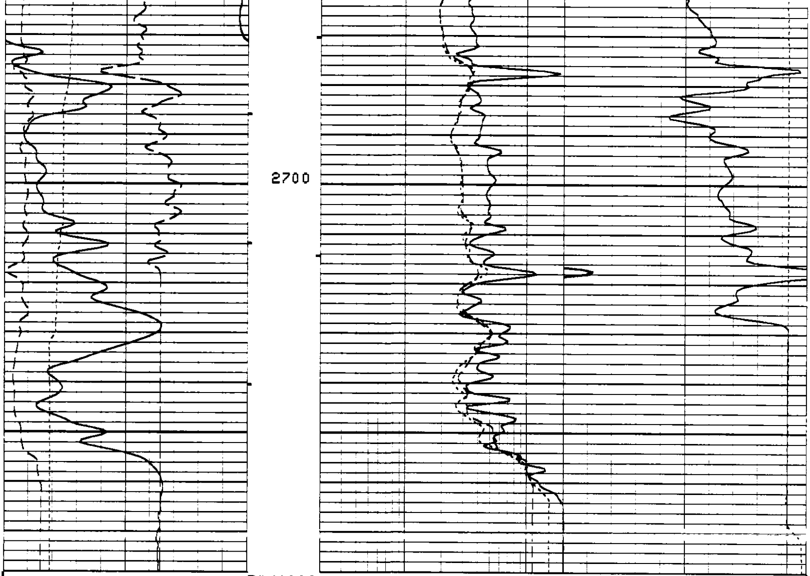
EVENT MARK SUMMARY:

OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
Integrated Hole Volume	10.0000 F3	LEFT EDGE
Integrated Cement Volume	10.0000 F3	RIGHT EDGE

Curve	Left scale	Right scale
RWA(OHMM)	0.0	3.0000
CALI(IN)	6.0000	16.000
GR(GAPI)	0.0	150.00
SP(MV)	-100.0	0.0
TENS(LBF)	20500.	500.00
DT(US/F)	175.00	75.000
ILD(OHMM)	.20000	2000.0
ILM(OHMM)	.20000	2000.0
SFLU(OHMM)	.20000	2000.0

CP 32.6 FILE 16 25-OCT-1992 12:25 (UP)





5"/100'

CP 32.6 FILE 16 25-OCT-1992 12:19 (UP)

TENS(LBF)
20500. 500.00
DT(US/F)
175.00 75.000

RWA(OHMM)
0.0 3.0000
CALI(IN)
6.0000 16.000
GR(GAPI)
0.0 150.00
SP(MV)
-100.0 0.0

ILD(OHMM)
.20000 2000.0
ILM(OHMM)
.20000 2000.0
SFLU(OHMM)
.20000 2000.0

SENSOR MEASURE POINT TO TOOL ZERO

SRAT	41.7	FEET	AMPL	44.1	FEET
CBFS	43.1	FEET	CBL	44.1	FEET
TT2	44.1	FEET	TT1	43.1	FEET
TT4	39.3	FEET	TT3	40.3	FEET
TT	44.1	FEET	T0	44.1	FEET
CBSL	44.1	FEET	TTSL	44.1	FEET
CALI	31.9	FEET	GR	62.7	FEET
ILM	6.1	FEET	ILD	9.9	FEET
SP	2.5	FEET	SFL	6.8	FEET
TENS	2.5	FEET	SPAR	2.5	FEET
NOIS	2.5	FEET			

PARAMETERS

```
NAME  VALUE        UNIT                     NAME  VALUE        UNIT

SMB   DISA                                  TOCA  DISA
RATE  15           HZ                       DG    /5
DETE  E2                                    AMPL  2
CBL   UT                                    WFM   1
SS    FAST                                  TOD   DISA
DTF   189.000      US/F                     DTM   56.0000      US/F
CDTS  100.000                               SPFS  R-H
WMUD  10.0000      LB/G                     MSEC  5.90000      MM/M
SBR   1.00000      OHMM                     DSEC  6.60000      MM/M
FCD   5.50000      IN                       NCJT  GSRY
FPHI  SPHI                                  DWCO  512
DSIN  5            US                       DDEL  200          US
BS    7.87500      IN                       BHS   OPEN
```

CALIBRATIONS

```
                 SHOP SUMMARY


   PERFORMED:    09-OCT-1992 10:04
   PROGRAM FILE: SHOP   (VERSION    32.6    91/08/23  91/08/23)


DITD             ELECTRONICS CALIBRATION SUMMARY

                TEST LOOP CALIBRATION             TOOL CHECK
             MEASURED          CALIBRATED          CALIBRATED
           ZERO     PLUS     ZERO       PLUS     ZERO       PLUS   UNITS
    ILD    -5.8     544.8    0.0        500.0    0.0        497.0  MM/M
    ILM    -4.7     521.9    0.0        500.0    0.0        503.2  MM/M
ILD  SONDE ERROR CORRECTION :         6.6 MM/M
ILM  SONDE ERROR CORRECTION :         5.9 MM/M

                         (IS:298 , IC:1078)

    CP 32.6             FILE    1      09-OCT-1992 10:04



                BEFORE SURVEY CALIBRATION SUMMARY


   PERFORMED:    25-OCT-1992 14:40
   PROGRAM FILE: ISN    (VERSION    32.6    91/08/23  91/08/23)


DITD             ELECTRONICS CALIBRATION SUMMARY

              MEASURED                        CALIBRATED
            ZERO     PLUS                 ZERO      PLUS          UNITS
    ILD     .71      548.6                0.00      497.0          MM/M
    ILM     .62      531.3                0.00      509.2          MM/M
    SFL     1.32     536.2                0.0       500.0          MM/M

ILD SONDE ERROR CORRECTION :        6.6 MM/M
ILM SONDE ERROR CORRECTION :        5.9 MM/M

 ZERO: 25-OCT-1992 12:11   PLUS: 25-OCT-1992 12:11   COMP: 25-OCT-1992 12:11
```

```
SGTE              DETECTOR CALIBRATION SUMMARY

                MEASURED
              BKGD     JIG          CALIBRATED          UNITS
    GR         44      192             165              GAPI

BACK: 23-OCT-1992 23:24   JIG: 23-OCT-1992 23:28  COMP: 23-OCT-1992 23:28


MCDB              CALIPER CALIBRATION SUMMARY

                MEASURED                      CALIBRATED
              SMALL   LARGE                 SMALL      LARGE         UNITS
  CALI        6.63    10.13                 8.00       12.00          IN

SMALL: 25-OCT-1992 11:02 LARGE: 25-OCT-1992 11:03 COMP: 25-OCT-1992 11:03

   CP 32.6           FILE    0       25-OCT-1992 14:40



                AFTER SURVEY TOOL CHECK SUMMARY


  PERFORMED:    25-OCT-1992 14:40
  PROGRAM FILE: ISN    (VERSION    32.6    91/08/23  91/08/23)


DITD                         TOOL  CHECK

                    ZERO                        PLUS
              BEFORE       AFTER          BEFORE     AFTER     UNITS
   ILD         0.0          -.1           497.0      493.8     MM/M
   ILM         0.0          -.0           509.2      505.9     MM/M
   SFL         0.0          -.1           500.0      496.2     MM/M

ILD SONDE ERROR CORRECTION :         6.6 MM/M
ILM SONDE ERROR CORRECTION :         5.9 MM/M

BEFORE SURVEY:             ZERO: 25-OCT-1992 12:11  PLUS: 25-OCT-1992 12:11
AFTER SURVEY CHECK:        ZERO: 25-OCT-1992 13:11  PLUS: 25-OCT-1992 13:12

   CP 32.6           FILE    0       25-OCT-1992 14:40
```

COMPANY	NAHAMA AND WEAGANT ENERGY CO.			SCHL.	FR	2763.0 F
				SCHL.	TD	2769.0 F
WELL	FISHHAWK/WILSON 11A-5-65 RD#1			DRLR.	TD	2770.0 F
FIELD	MIST			Elev:	KB	615.0 F
					DF	
COUNTY	COLUMBIA	**STATE**	OREGON		GL	604.0 F

Schlumberger

DUAL INDUCTION-SFL
BHC-SONIC
FIVE INCH LOG