COUNTY	COLUMBIA
FIELD	MIST
LOCATION	1780 S AND 290 E
WELL	Buzzard #12-35-65
COMPANY	Nahama & Weagant Energy Co

Schlumberger

DUAL INDUCTION-SFL-SONIC
WITH LINEAR CORRELATION LOG

COMPANY Nahama & Weagant Energy Co.

WELL "Buzzard" #12-35-65 LF B

FIELD MIST

COUNTY COLUMBIA **STATE** OREGON

LOCATION			Other Services:
1780'S AND 290'E FROM NW CORNER			DIL-BHC GR FMS
API SERIAL NO.	**SECT.**	**TWP.**	**RANGE**
36-009-00301	35	6N	5W

Permanent Datum	GL	**Elev.**	800.0 F	**Elev.: K.B.810.0 F**
Log Measured From	KB	10.0 F	**above Perm. Datum**	**D.F.809.0 F**
Drilling Measured From	KB			**G.L.800.0 F**

Date	09 JUN-1993		
Run No.	ONE		
Depth Driller	3727.0 F		
Depth Logger (Schl.)	3726.0 F		
Btm. Log Interval	3720.0 F		
Top Log Interval	501.0 F		
Casing-Driller	8 5/8" @ 500.0 F	4 1/2 @ 4793.0 F	@
Casing-Logger	501.0 F		
Bit Size	7 7/8" @ 3727.0 F	@	@
Type Fluid in Hole	DRISPAC/POLYMER		
Dens. | **Visc.**	9.70 LB/G | 39.0 S		
pH | **Fld. Loss**	8.0 | 6.2 C3		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	3.110 OHMM @ 64.0 DEGF		@
Rmf @ Meas. Temp.	3.070 OHMM @ 60.0 DEGF		@
Rmc @ Meas. Temp.	3.160 OHMM @ 60.0 DEGF		@
Source: Rmf | **Rmc**	MEASURED | MEASURED		
Rm @ BHT	2.165 OHMM @ 95.0 DEGF		@
TIME **Circulation Ended**	10 00 09-JUN-1993		
Logger on Bottom	15 55 09-JUN-1993		
Max. Rec. Temp.	95.0 DEGF		
Equip. | **Location**	8504 | SACRAMENTO		
Recorded By	SCOTT PILCH		
Witnessed By	ROB LUCAS / BOB PINOTTI		

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

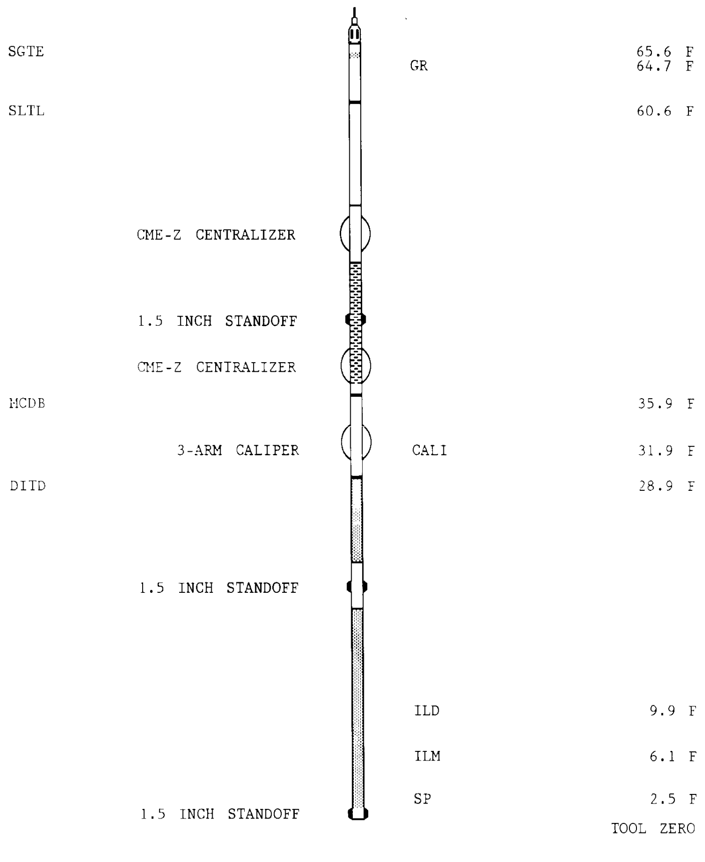
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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.	624451		
Drilling Fluid Level	5.0 F		
Salinity	800.0 PPM		
Rmf @ BHT	2.017 OHMM @ 95.0 DEGF		@
Rmc @ BHT	2.076 OHMM @ 95.0 DEGF		@
Logging Speed	3600.0 F/HR		
EQUIPMENT DATA			
Tool Number 1	DIS-EC 1342		
Tool Number 2	DIC-DA 1386		
Tool Number 3	MCD-DA 668		
Tool Number 4	SLC-MA 88		
Tool Number 5	SLS-WC 1335		
Tool Number 6	SGC-JC 3206		
Tool Number 7	IEM-BD 304		
Tool Number 8	SLM-DA 443		
Tool Number 9	NLM-BC 418		
Tool Number 10			
Tool Number 11			
Tool Number 12			

REMARKS:

REPEAT SECTION CHOSEN BY CLIENT.

LOGGING TOOL STRING SKETCH



TOTAL TOOL STRING LENGTH IS 68.6 F.
TOTAL TOOL STRING WEIGHT IS 993. LB IN AIR.

MAIN LOG

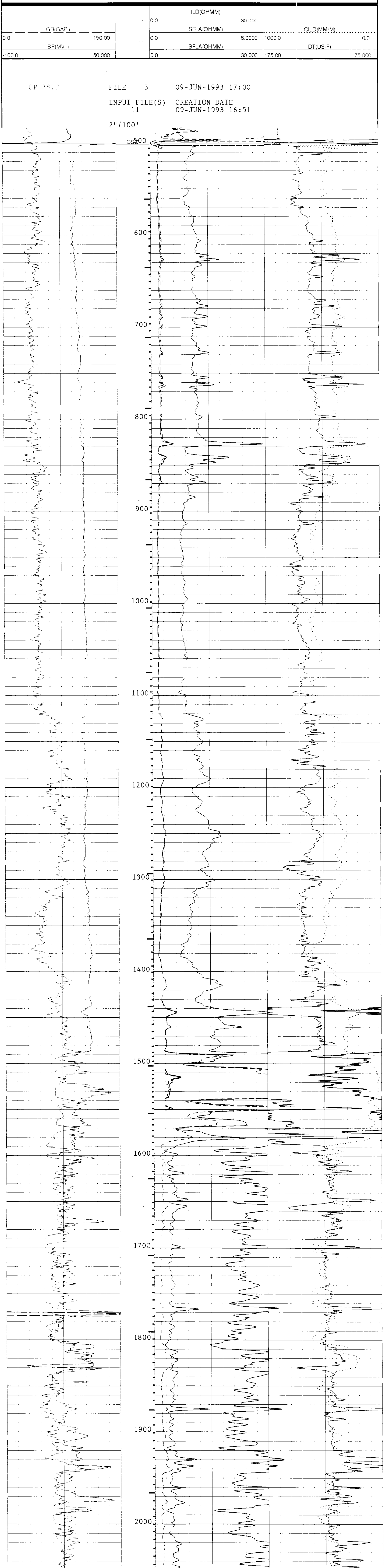
```
ACCUMULATED INTEGRATION VALUES SUMMARY:

Integrated Hole Volume:   1123.08 F3    FROM 3726.00 F    TO 501.000 F
Integrated Cement Volume: 766.887 F3    FROM 3726.00 F    TO 501.000 F
  (ASSUMING 4.50000 IN   O.D. CASING)
Integrated Transit Time:  .378818 S     FROM 3726.00 F    TO 501.000 F
```

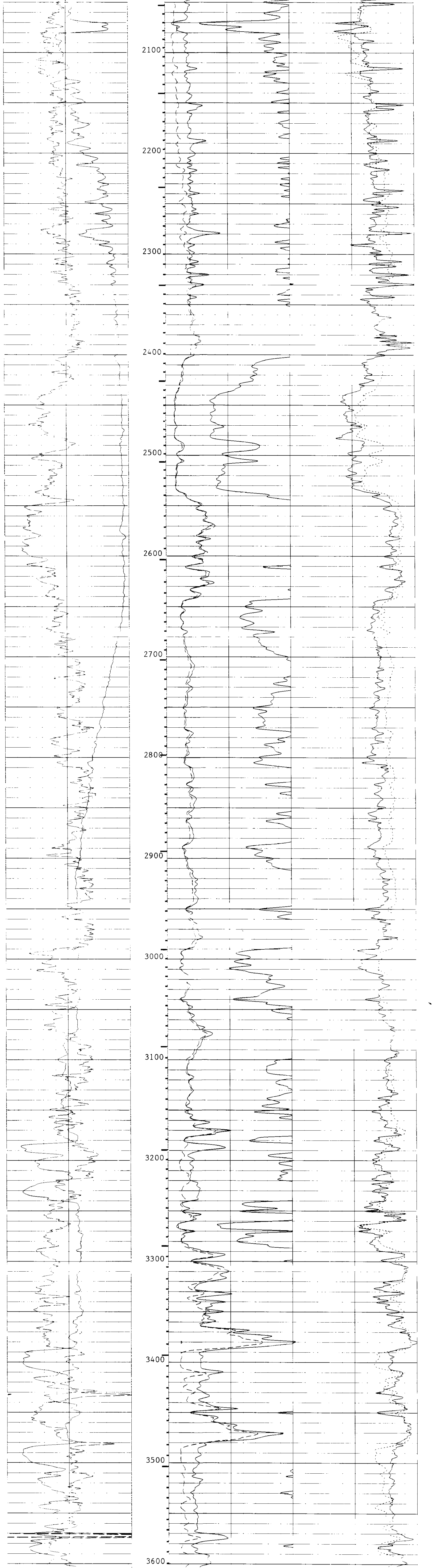
```
EVENT MARK SUMMARY:

OUTPUT                        INTERVAL        DEPTH TRACK
                              BETWEEN PIPS    EDGE

Integrated Transit Time       .00100000 S     RIGHT EDGE
```

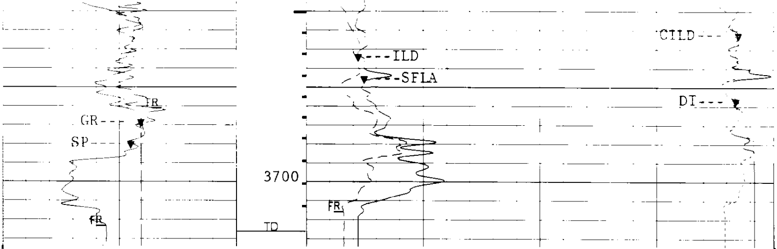
CP 38.[illegible]   FILE 3   09-JUN-1993 17:00

INPUT FILE(S)   CREATION DATE
11   09-JUN-1993 16:51

2"/100'







2"/100'

CP 38.2 FILE 3 09-JUN-1993 16:54

INPUT FILE(S) CREATION DATE
11 09-JUN-1993 16:51

	ILD(OHMM)	
	0.0 30.000	
GR(GAPI)	SFLA(OHMM)	CILD(MM/M)
0.0 150.00	0.0 6.0000	1000.0 0.0
SP(MV)	SFLA(OHMM)	DT(US/F)
-100.0 50.000	0.0 30.000	175.00 75.000

SENSOR MEASURE POINT TO TOOL ZERO

MCDB 31.9 FEET
DTT 2.5 FEET
SLTL 44.1 FEET
SGTE 64.7 FEET
DITD 9.9 FEET

PARAMETERS

PARAMETER	VALUE	UNIT
SMB - Sonic Memory Board	DISA	
VDLR - Defn not found	2IN	
TOCA - TO Correction Status	DISA	
RATE - Firing Rate	15	HZ
DG - Downhole Gain	/5	
DETE - Detection	E2	
NMSG - Near Minimum Sliding Gate	180	US
CBLG - CBL Gate Width	35	US
AMPL - Sonic Amplitude	2	
CBL - Cement Bond Log Amplitude	UT	
WFM - Waveform Mode	1	
SS - Sweep Speed	FAST	
TOD - TO Delay	DISA	
DTF - Delta-T Fluid	189.000	US/F
DTM - Delta-T Matrix	56.0000	US/F
CDTS - Correction for Delta-T Shale, Empirical	100.000	
SPFS - Sonic Porosity Formula Select	R-H	
PP - Playback Processing	NORM	
DO - Depth Offset for Logical Unit LI1	0.0	F
WMUD - Weight of Mud	9.70000	LB/G
MSEC - Medium Sonde Error Correction	7.90000	MM/M
SBR - Shoulder Bed Resistivity	1.00000	OHMM
DSEC - Deep Sonde Error Correction	6.40000	MM/M
FCD - Future Casing Diameter	4.50000	IN
NCJT - NGT Calibration Jig Type	GSRY	
FPHI - Formation Factor Formula Porosity	SPHI	
DWCO - Digitizer Word Count	512	
DSIN - Digitizer Sample Interval	5	US
DDEL - Digitizing Delay	200	US
BS - Bit Size	7.87500	IN
BHS - BoreHole Status (Open or Cased)	OPEN	
CSIZ - Casing Size	4.00000	IN

COMPANY	Nahama & Weagant Energy Co.		SCHL.	FR	3720.0 F
			SCHL.	TD	3726.0 F
WELL	Buzzard #12-35-65		DRLR.	TD	3727.0 F
FIELD	MIST		Elev:	KB	810.0 F
				DF	809.0 F
COUNTY	COLUMBIA	**STATE** OREGON		GL	800.0 F

Schlumberger

DUAL INDUCTION-SFL-SONIC
WITH LINEAR CORRELATION LOG