CC 12-19-65

COUNTY	Columbia
FIELD	Mist
LOCATION	1844.34'S AND 1209.68'E
WELL	"CC" #12-19-65
COMPANY	Nahama & Weagant Energy Co.

Schlumberger

CEMENT BOND LOG
VARIABLE DENSITY

COMPANY	Nahama & Weagant Energy Co.
WELL	"CC" #12-19-65
FIELD	Mist
COUNTY	Columbia **STATE** Oregon
LOCATION	1844.34'S AND 1209.68'E FROM NW CORNER

Other Services:

API SERIAL NO.	SECT.	TWP.	RANGE
NA	19	6N	5W

Permanent Datum	GL	**Elev.**	937.0 F	**Elev.: K.B.947.0 F**
Log Measured From	KB	10.0 F	**above Perm. Datum**	**D.F.**
Drilling Measured From	KB			**G.L.937.0 F**

Date	17-JUN-1993			
Run No.	ONE			
Depth Driller	2959.0 F			
Depth Logger (Schl.)	2950.0 F			
Btm. Log Interval	2942.0 F			
Top Log Interval	1900.0 F			
Type Fluid in Hole	LEASE WATER			
Salinity NaCl				
Density	8.30 LB/G			
Fluid Level	200.0 F			
Max. Rec. Temp.				
Deviation				
Logger on Bottom	11:34 17-JUN-1993			
Equip. | Location	8504 | SACRAMENTO			
Recorded By	SCOTT PILCH			
Witnessed By	ROB LUCAS			
	BOREHOLE RECORD			
Bit Size	7 7/8"			
Depth				
	CASING & TUBING RECORD			
Size	3 1/2"			
Weight	9.3000 LB/F			
Casing Top-Driller				
Casing Top-Logger				
Casing Shoe-Driller	2950.0 F			
Casing-Logger	2950.0 F			

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.

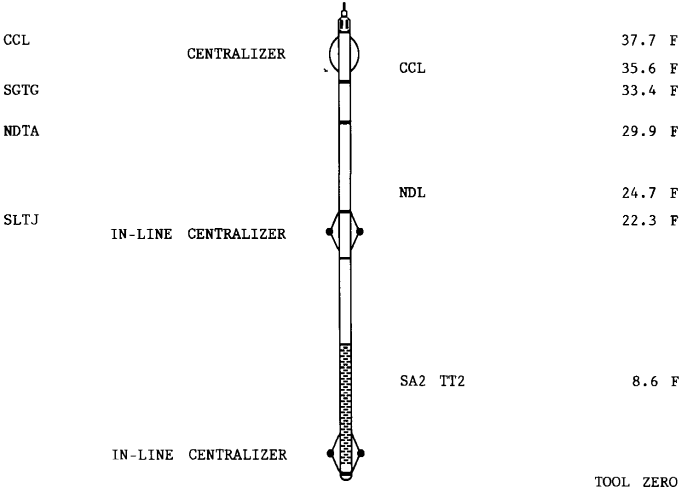
Run No.	ONE	
Service Order No.	454614	
Drilling Fluid Level	200.0 F	
Salinity		
Rmf @ BHT	@	@
Rmc @ BHT	@	@
Logging Speed	3600.0 F/HR	
EQUIPMENT DATA		
Tool Number 1	SLS-JF 1411	
Tool Number 2	SLC-JH 1593	
Tool Number 3	NDT-A 94	
Tool Number 4	SGT-G 333	
Tool Number 5	CCL-AJ 1997	
Tool Number 6	SMM-AA 326	
Tool Number 7		
Tool Number 8		
Tool Number 9		
Tool Number 10		
Tool Number 11		
Tool Number 12		

REMARKS:

CORRELATED TO DRESSER CNL OF 9-SEP-1988.

NO PRESSURE DURING LOGGING.

LOGGING TOOL STRING SKETCH



TOTAL TOOL STRING LENGTH IS 40.7 F.
TOTAL TOOL STRING WEIGHT IS 292. LB IN AIR.

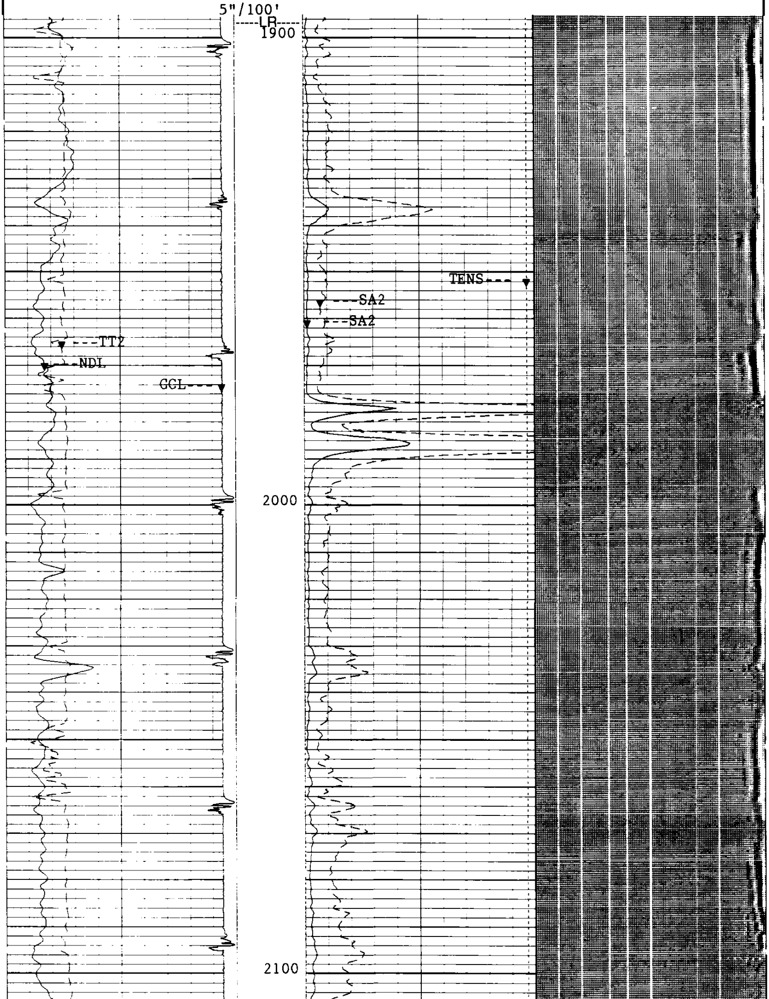
MAIN LOG

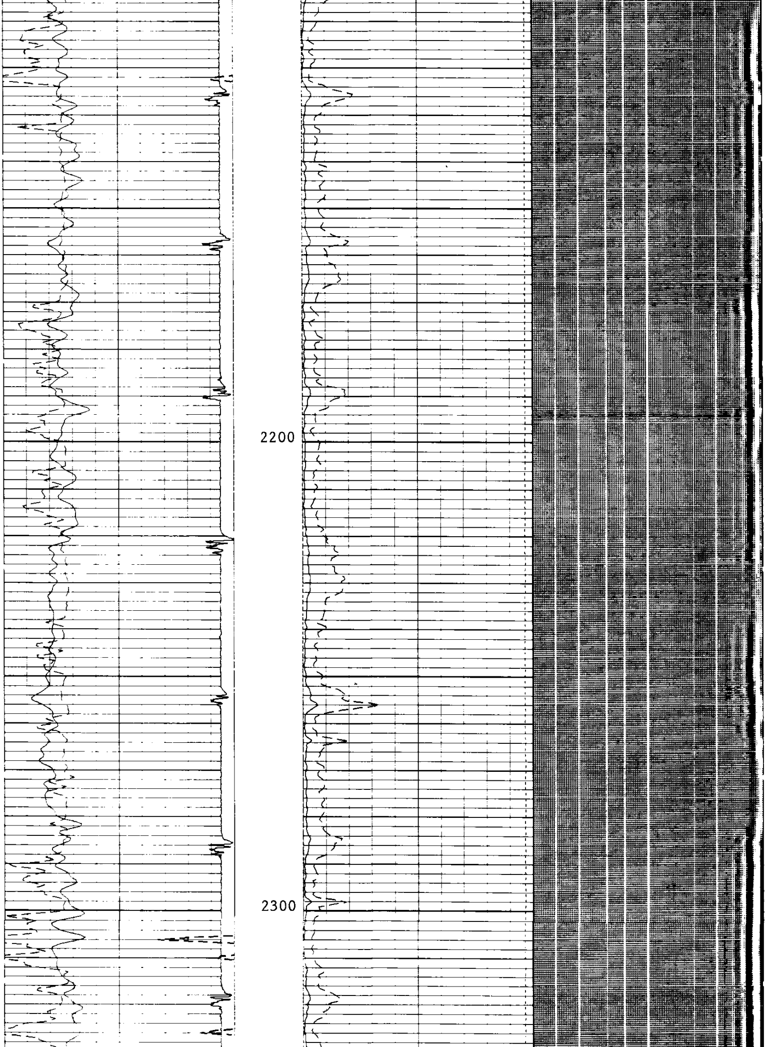
TT2(US)
300.00 100.00
NDL(CPS)
500.00 2000.0
CCL
-19.00 1.0000

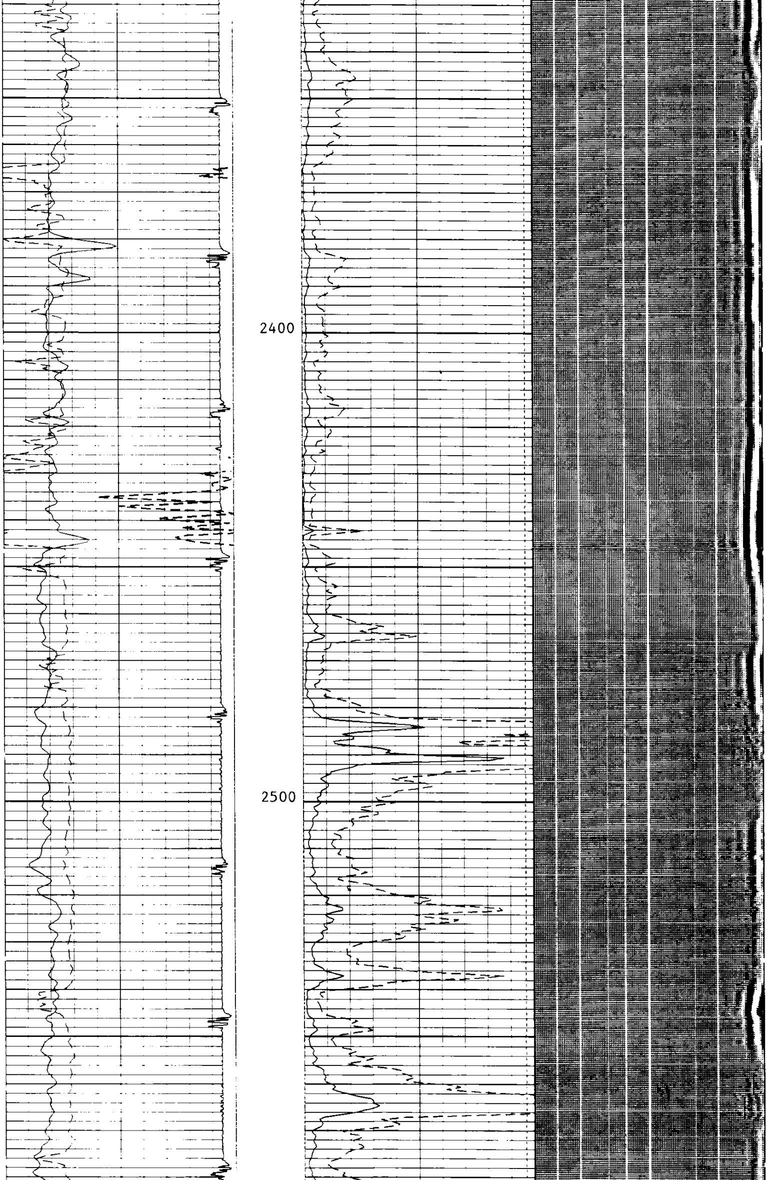
TENS(LBF)
10000. 0.0
SA2(MV)
0.0 20.000
SA2(MV)
0.0 100.00

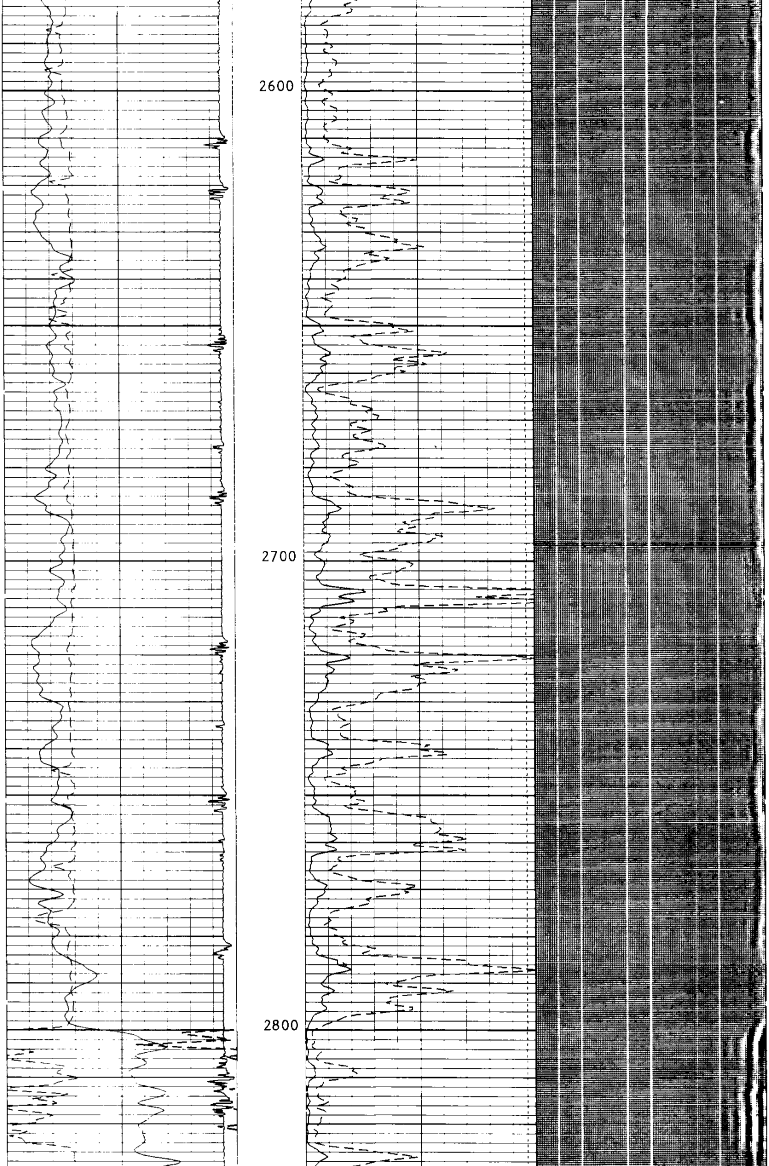
VDL(US)
200.00 1200.0

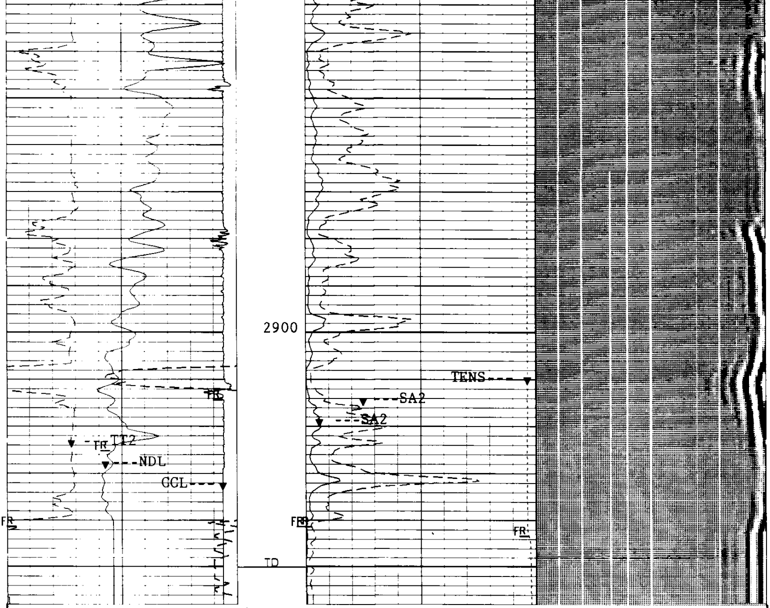
CP 38.2 FILE 15 17-JUN-1993 11:58 (UP)











5"/100'

CP 38.2 FILE 15 17-JUN-1993 11:33 (UP)

TT2(US)
300.00 100.00
NDL(CPS)
500.00 2000.0
CCL
-19.00 1.0000

TENS(LBF)
10000. 0.0
SA2(MV)
0.0 20.000
SA2(MV)
0.0 100.00

VDL(US)
200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

SA2	8.6	FEET	SA1	6.6	FEET
T0	6.6	FEET	DT	6.6	FEET
TT2	8.6	FEET	TT1	6.6	FEET
NDL	24.7	FEET	GR	30.9	FEET

CCL 35.6 FEET TENS 6.6 FEET

PARAMETERS

PARAMETER	VALUE	UNIT
SMB - Sonic Memory Board	ALLO	
VDLR - Defn not found	2IN	
VDLO - Defn not found	D3	
SA1G - Sonic Amplitude 1 Gain Correction	1.00000	
SA2G - Sonic Amplitude 2 Gain Correction	1.00000	
DG - Downhole Gain	/20	
FRR - Far Receiver Reduction	1.00000	
DETE - Detection	E1	
NMSG - Near Minimum Sliding Gate	230	US
CBLG - CBL Gate Width	45	US
WFM - Waveform Mode	1	
SS - Sweep Speed	MEDI	
TOD - TO Delay	ALLO	
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	
WMUD - Weight of Mud	8.30000	LB/G
NCJT - NGT Calibration Jig Type	GSRU	
CSTR - Compressive Strength of Cement	1500.00	PSIA
CWEI - Casing Weight	9.30000	LB/F
DWCO - Digitizer Word Count	143	
DSIN - Digitizer Sample Interval	7	US
DDEL - Digitizing Delay	200	US
BS - Bit Size	7.87500	IN
BHS - BoreHole Status (Open or Cased)	CASE	
CSIZ - Casing Size	3.50000	IN

REPEAT SECTION

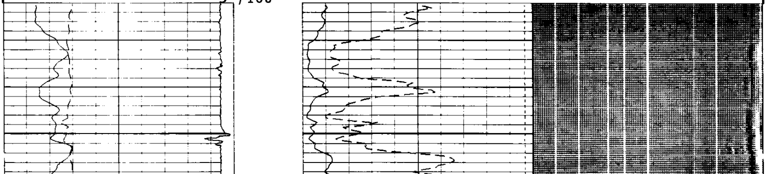
TT2(US)
300.00 100.00
NDL(CPS)
500.00 2000.0
CCL
-19.00 1.0000

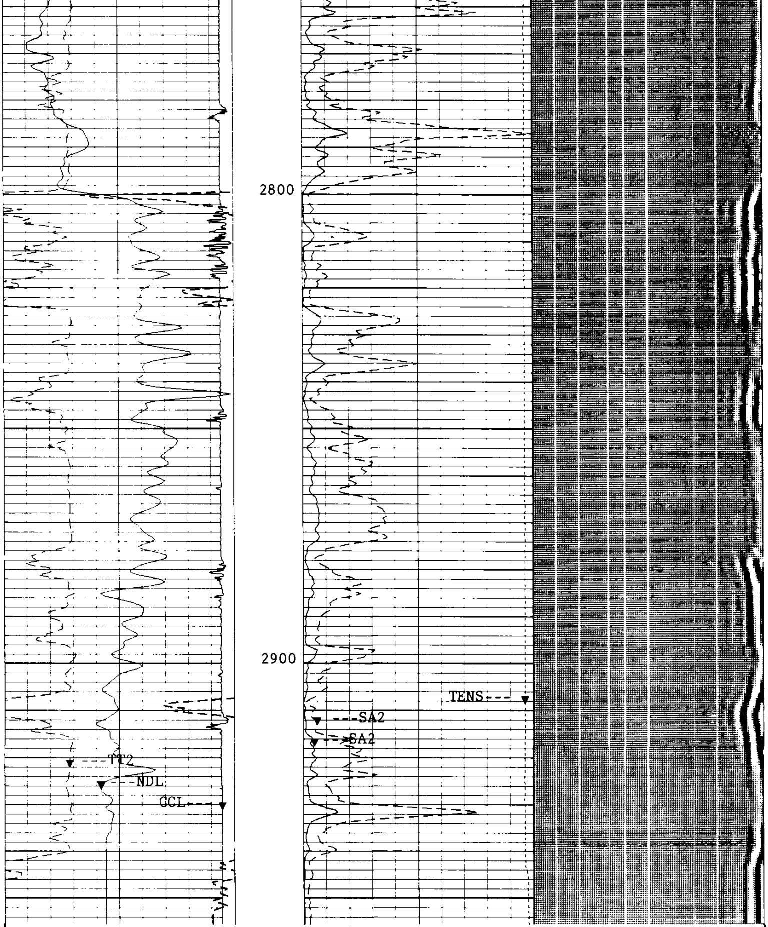
TENS(LBF)
10000. 0.0
SA2(MV)
0.0 20.000
SA2(MV)
0.0 100.00

VDL(US)
200.00 1200.0

CP 38.2 FILE 14 17-JUN-1993 11:32 (UP)

5"/100'





5"/100'

CP 38.2 FILE 14 17-JUN-1993 11:26 (UP)

Curve	Left	Right
TT2(US)	300.00	100.00
NDL(CPS)	500.00	2000.0
CCL	-19.00	1.0000
TENS(LBF)	10000.	0.0
SA2(MV)	0.0	20.000
SA2(MV)	0.0	100.00
VDL(US)	200.00	1200.0

SENSOR MEASURE POINT TO TOOL ZERO

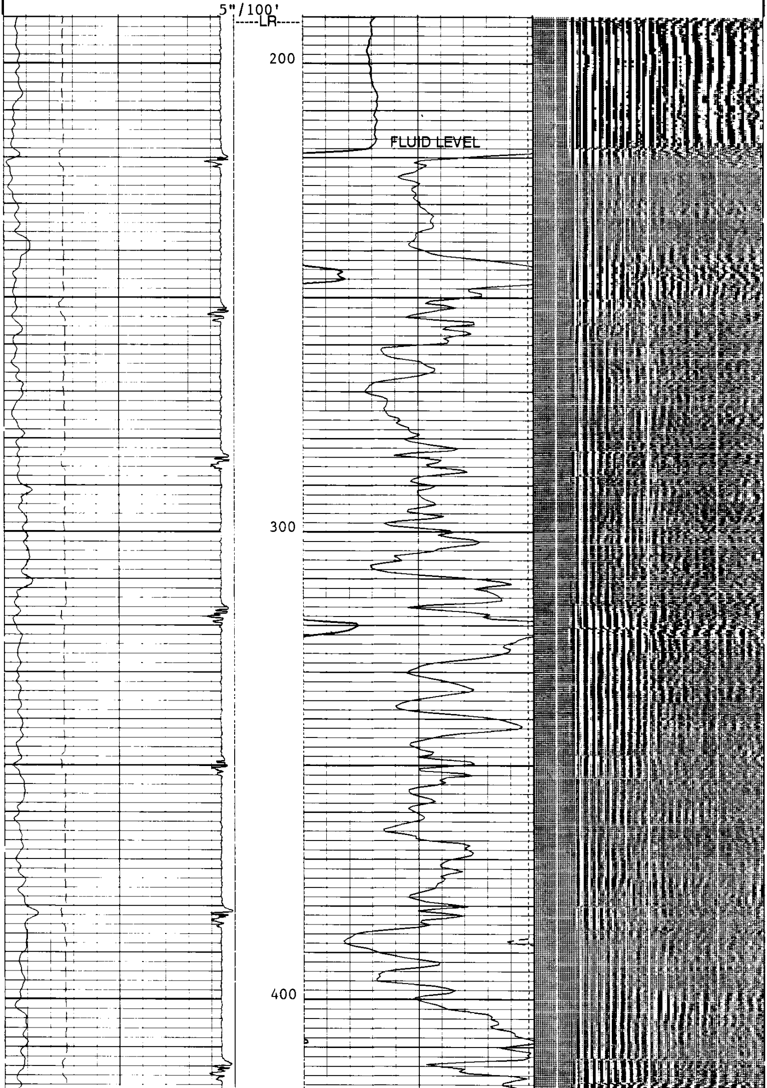
SA2	8.6	FEET	SA1	6.6	FEET
TO	6.6	FEET	DT	6.6	FEET
TT2	8.6	FEET	TT1	6.6	FEET
NDL	24.7	FEET	GR	30.9	FEET
CCL	35.6	FEET	TENS	6.6	FEET

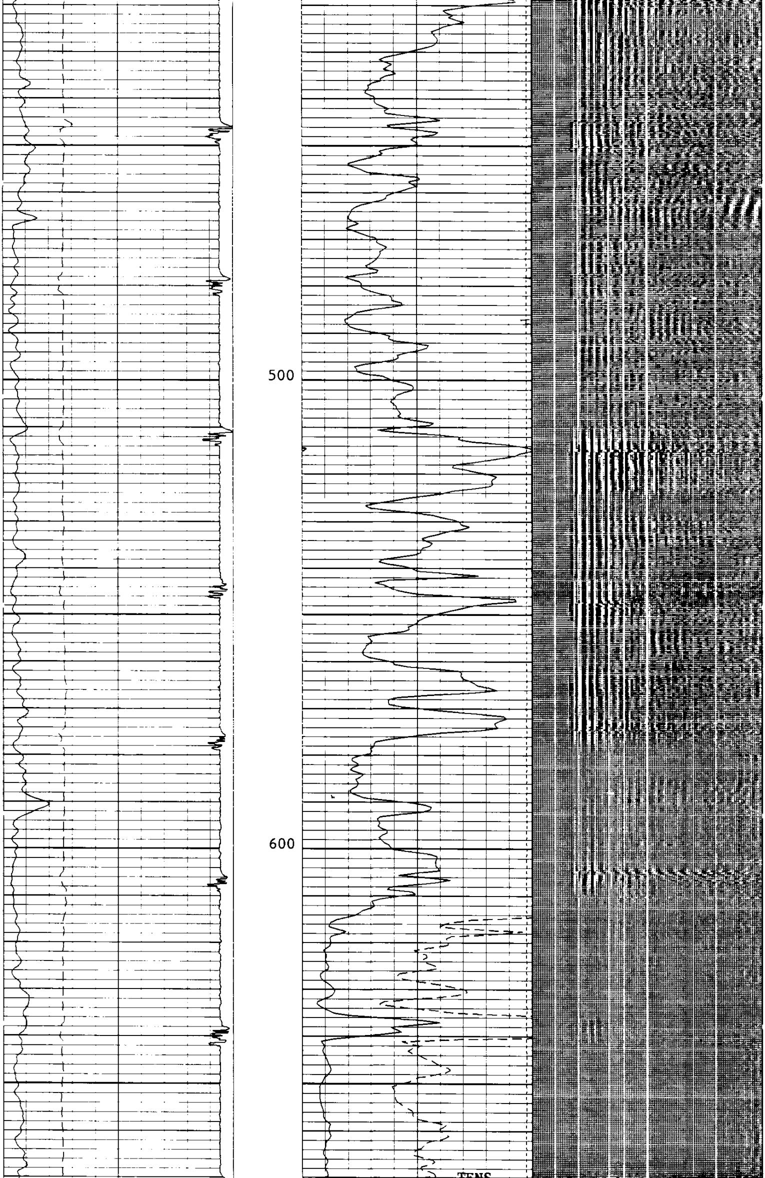
PARAMETERS

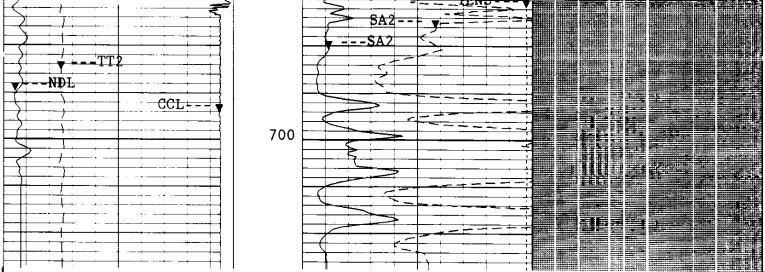
PARAMETER	VALUE	UNIT
SMB - Sonic Memory Board	ALLO	
VDLR - Defn not found	2IN	
VDLO - Defn not found	D3	
SA1G - Sonic Amplitude 1 Gain Correction	1.00000	
SA2G - Sonic Amplitude 2 Gain Correction	1.00000	
DG - Downhole Gain	/20	
FRR - Far Receiver Reduction	1.00000	
DETE - Detection	E1	
NMSG - Near Minimum Sliding Gate	230	US
CBLG - CBL Gate Width	45	US
WFM - Waveform Mode	1	
SS - Sweep Speed	MEDI	
TOD - TO Delay	ALLO	
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	
WMUD - Weight of Mud	8.30000	LB/G
NCJT - NGT Calibration Jig Type	GSRU	
CSTR - Compressive Strength of Cement	1500.00	PSIA
CWEI - Casing Weight	9.30000	LB/F
DWCO - Digitizer Word Count	143	
DSIN - Digitizer Sample Interval	7	US
DDEL - Digitizing Delay	200	US
BS - Bit Size	7.87500	IN
BHS - BoreHole Status (Open or Cased)	CASE	
CSIZ - Casing Size	3.50000	IN

Curve	Left	Right
TT2(US)	300.00	100.00
NDL(CPS)	500.00	2000.0
CCL	-19.00	1.0000
TENS(LBF)	10000.	0.0
SA2(MV)	0.0	20.000
SA2(MV)	0.0	100.00
VDL(US)	200.00	1200.0

CP 38.2 FILE 18 17-JUN-1993 12:17 (UP)







5"/100'

CP 38.2 FILE 18 17-JUN-1993 12:05 (UP)

TT2(US) 300.00 100.00
NDL(CPS) 500.00 2000.0
CCL -19.00 1.0000
TENS(LBF) 10000. 0.0
SA2(MV) 0.0 20.000
SA2(MV) 0.0 100.00
VDL(US) 200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

SA2	8.6	FEET	SA1	6.6	FEET
TO	6.6	FEET	DT	6.6	FEET
TT2	8.6	FEET	TT1	6.6	FEET
NDL	24.7	FEET	GR	30.9	FEET
CCL	35.6	FEET	TENS	6.6	FEET

PARAMETERS

PARAMETER	VALUE	UNIT
SMB - Sonic Memory Board	ALLO	
VDLR - Defn not found	2IN	
VDLO - Defn not found	D3	
SA1G - Sonic Amplitude 1 Gain Correction	1.00000	
SA2G - Sonic Amplitude 2 Gain Correction	.400000	
DG - Downhole Gain	/20	
FRR - Far Receiver Reduction	1.00000	
DETE - Detection	E1	
NMSG - Near Minimum Sliding Gate	230	US
CBLG - CBL Gate Width	45	US
WFM - Waveform Mode	1	
SS - Sweep Speed	MEDI	
TOD - TO Delay	ALLO	
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	
WMUD - Weight of Mud	8.30000	LB/G
NCJT - NGT Calibration Jig Type	GSRU	
CSTR - Compressive Strength of Cement	1500.00	PSIA
CWEI - Casing Weight	9.30000	LB/F
DWCO - Digitizer Word Count	143	
DSIN - Digitizer Sample Interval	7	US
DDEL - Digitizing Delay	200	US
BS - Bit Size	7.87500	IN
BHS - BoreHole Status (Open or Cased)	CASE	
CSIZ - Casing Size	3.50000	IN

COMPANY	Nahama & Weagant Energy Co.		SCHL.	FR	2942.0 F
WELL	"CC" #12-19-65		SCHL.	TD	2950.0 F
FIELD	Mist		DRLR.	TD	2959.0 F
			Elev:	KB	947.0 F
				DF	
COUNTY	Columbia	**STATE** Oregon		GL	937.0 F

Schlumberger

CEMENT BOND LOG
VARIABLE DENSITY