Schlumberger

CYBERDIP

COUNTY COLUMBIA
FIELD MIST
LOCATION 2208.6E AND 384.4N
WELL SALMON BERRY H.N.R. #24-22-64
COMPANY NAHAMA AND WEAGANT ENERGY CO.

COMPANY NAHAMA AND WEAGANT ENERGY CO.
WELL SALMON BERRY H.N.R. #24-22-64
FIELD MIST
COUNTY COLUMBIA **STATE** OREGON

LOCATION
2208.6'E AND 384.4'N
FROM SW CORNER OF:

Other Services:
DIL/BHC/GR
MESTC

API SERIAL NO.	SECT.	TWP.	RANGE
36-009-00312	22	6N	4W

Permanent Datum GL Elev. 1107.0 F
Log Measured From KB 10.0 F above Perm. Datum
Drilling Measured From KB

Elev.: K.B.1117.0 F
D.F.1116.0 F
G.L.1107.0 F

Date	21-OCT-1993		
Run No.	ONE		
Depth Driller	2553.0 F		
Depth Logger (Schl.)	2547.0 F		
Btm. Log Interval	2545.0 F		
Top Log Interval	1300.0 F		
Casing-Driller	8 5/8 @ 502.0 F	@	@
Casing-Logger	502.0 F		
Bit Size	7 7/8 @ 2553.0 F	@	@
Type Fluid in Hole	GEL		
Dens. | Visc.	8.90 LB/G | 38.0 S		
pH | Fld. Loss	7.0 | 8.0 C3		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	4.610 OHMM @ 64.0 DEGF	@	
Rmf @ Meas. Temp.	2.750 OHMM @ 60.0 DEGF	@	
Rmc @ Meas. Temp.	3.210 OHMM @ 60.0 DEGF	@	
Source: Rmf | Rmc	MEASURED | MEASURED		
Rm @ BHT	3.597 OHMM @ 84.0 DEGF	@	
TIME Circulation Ended	15:30 21-OCT-93		
TIME Logger on Bottom	23:00 21-OCT-93		
Max. Rec. Temp.	84.0 DEGF		
Equip. | Location	8504 | SACRAMENTO		
Recorded By	M.DEMSKIE		
Witnessed By	B.PINOTTI/R.LUCAS		

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

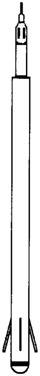
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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.	624382	
Drilling Fluid Level	5.0 F	
Salinity	400.0 PPM	
Rmf @ BHT	2.025 OHMM @ 84.0 DEGF	@
Rmc @ BHT	2.363 OHMM @ 84.0 DEGF	@
Logging Speed	1800.0 F/HR	
EQUIPMENT DATA		
Tool Number 1	MEDS-C 411	
Tool Number 2	MEAC-A 446	
Tool Number 3	TCC-B 2886	
Tool Number 4	TCM-AB 1516	
Tool Number 5		
Tool Number 6		
Tool Number 7		
Tool Number 8		
Tool Number 9		
Tool Number 10		
Tool Number 11		
Tool Number 12		

REMARKS:

CORRELATED TO SWS DIL/SONIC LOG
THANK YOU FOR CHOOSING SCHLUMBERGER
MFIN=.55, MDEC=19, MINC=66

LOGGING TOOL STRING SKETCH



TOTAL TOOL STRING LENGTH IS 32.7 F.
TOTAL TOOL STRING WEIGHT IS 459. LB IN AIR.

MAIN LOG

MEST CYBERDIP

STRUCTURAL DIP NOT REMOVED

MIRROR IMAGES REMOVED

SPEED CORRECTION NOT APPLIED

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ACCUMULATED INTEGRATION VALUES SUMMARY:

Integrated Hole Volume:   589.258 F3    FROM 2547.00 F    TO 1274.00 F
Integrated Cement Volume: 448.659 F3    FROM 2547.00 F    TO 1274.00 F
  (ASSUMING 4.50000 IN   O.D. CASING)
```

```
EVENT MARK SUMMARY:

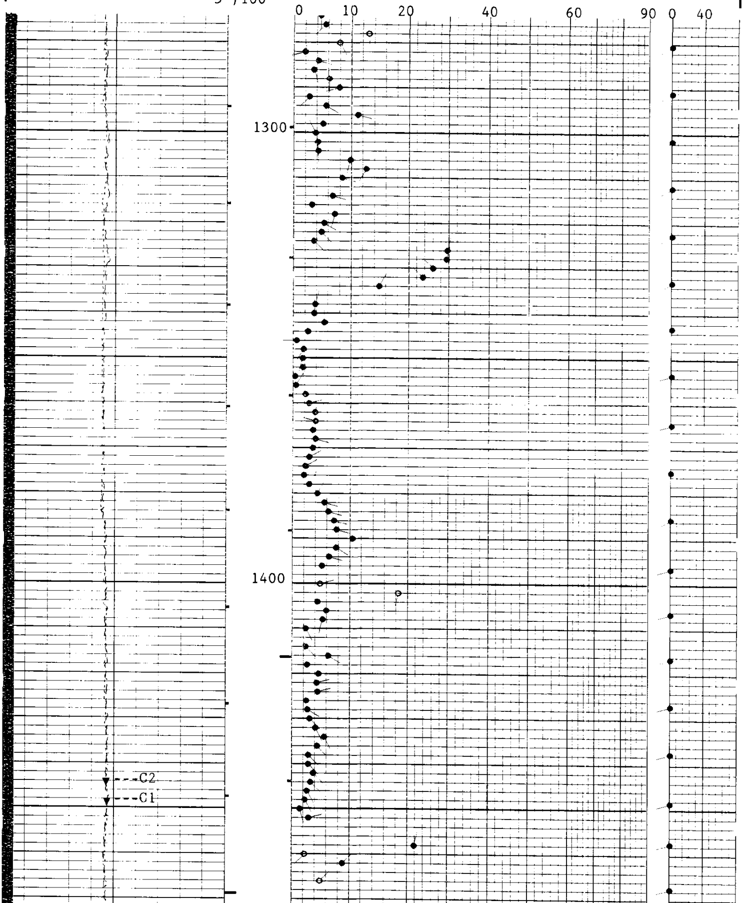
OUTPUT                        INTERVAL       DEPTH TRACK
                              BETWEEN PIPS   EDGE
```

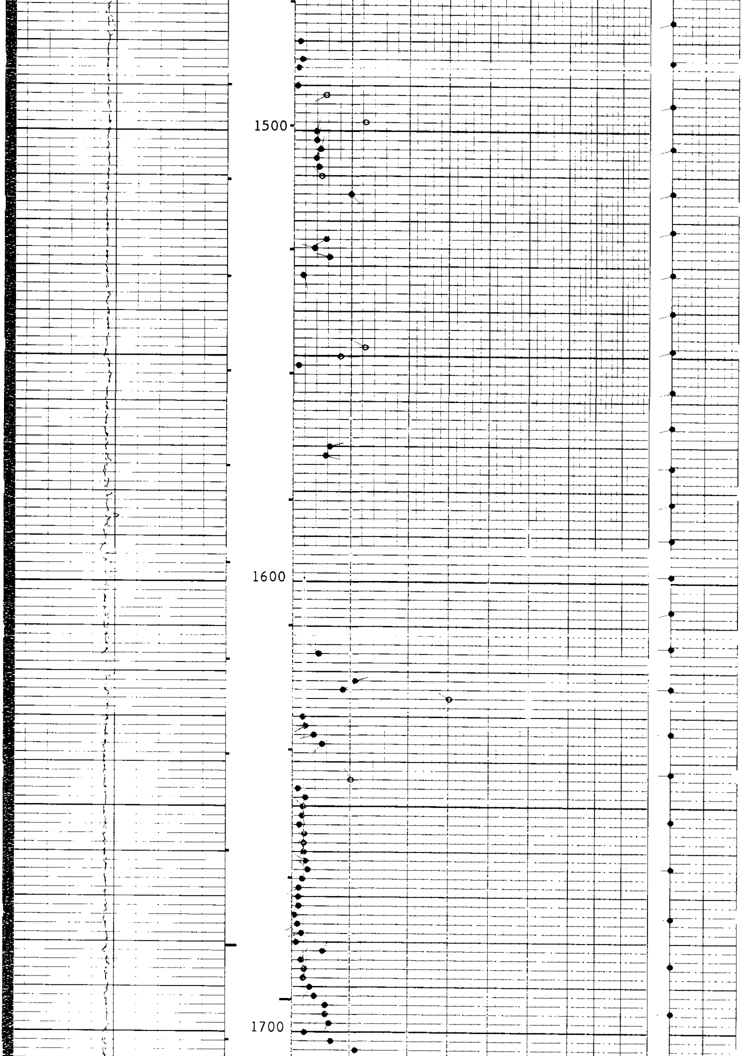
Integrated Hole Volume 10.0000 F3 LEFT EDGE
Integrated Cement Volume 10.0000 F3 RIGHT EDGE

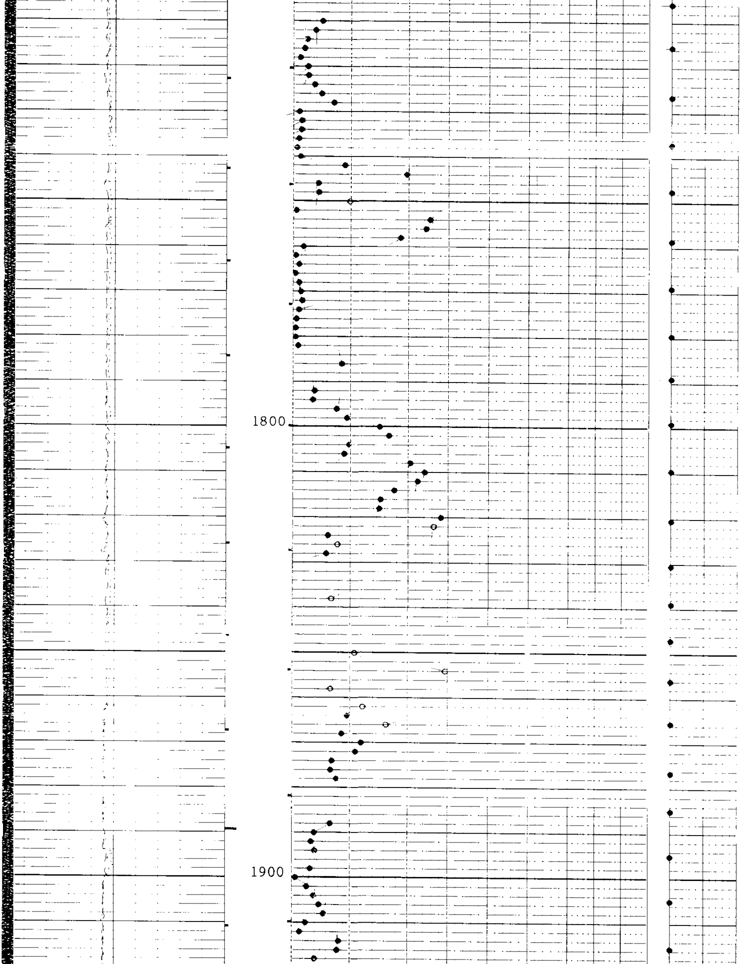
CP 38.2 FILE 1 22-OCT-1993 10:10

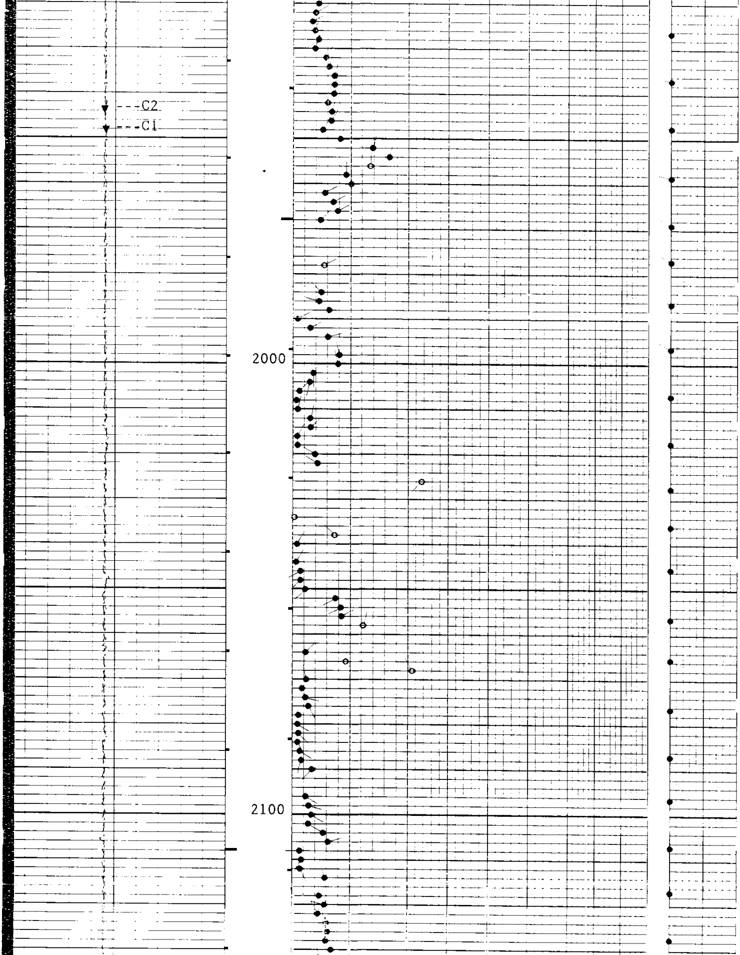
INPUT FILE(S) CREATION DATE
4 21-OCT-1993 22:55

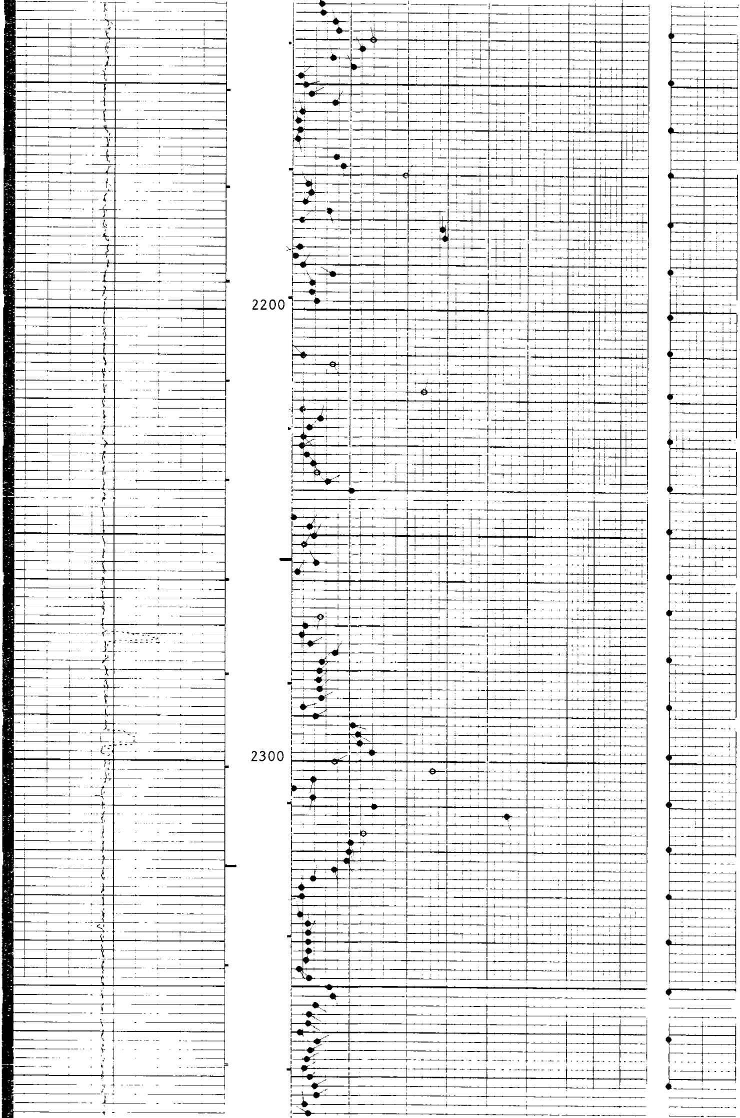
5"/100'

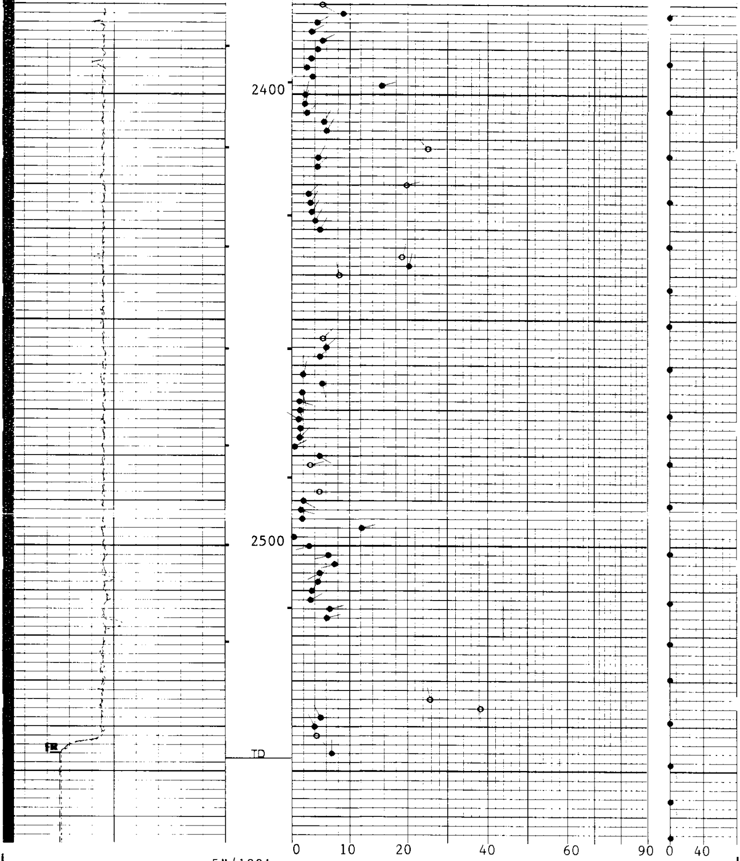












5"/100'

CP 38.2 FILE 1 22-OCT-1993 09:39

INPUT FILE(S) CREATION DATE
4 21-OCT-1993 22:55

C2(IN)

0.0 20.000

[illegible]

0.0 20.000

SENSOR MEASURE POINT TO TOOL ZERO

C1	1.1	FEET	TENS	0.0	FEET
MDRB	1.1	FEET	C2	1.1	FEET
MRPC	1.1	FEET	MRPD	1.1	FEET
MRPA	1.1	FEET	MRPB	1.1	FEET
AY	1.1	FEET	AX	1.1	FEET
FX	1.1	FEET	AZ	1.1	FEET
FZ	1.1	FEET	FY	1.1	FEET
FCAY	1.1	FEET	FCAX	1.1	FEET
FTIM	1.1	FEET	FCAZ	1.1	FEET

PARAMETERS

PARAMETER	VALUE	UNIT
PADT - Presentation Allow Disallow Threshold	.500000	DEG
PP - Playback Processing	RECO	
DO - Depth Offset for Logical Unit LI1	0.0	F
FCSR - Fast Channel Sample Rate	0.1"	
AFMO - Accelerometer Filtering Mode	HAMM	
ICMO - Inclinometry Computation Mode	AUTO	
MDEC - Magnetic Field Declination	19.0000	DEG
GLM - GPIT Logging Mode	DIPM	
ICSD - Inclinometry Computation Stop Depth	502.000	F
RBS - Resistivity Button Selection	AUTO	
PTYP - Platform Type	MEC	
MLM - MEST Logging Mode	1800	
SOFF - Stand Off	-1.00000	IN
CSR - Curves Sampling Rate	.6"	
ODFO - Output Data Format	LIS	
XMOD - EMEX Voltage Regulation Mode	MANU	
XGAI - Gain Setting	2	
XOFF - Offset Setting	0	
FCD - Future Casing Diameter	4.50000	IN
SPCR - Speed Correction Constant	DISA	
DSCA - Deviation Scale	40	DEG
SBUT - Set of Buttons Selected	ALL	
INT - Correlation Interval Length	4.00000	F
STEP - Step Length between Correlations	2.00000	F
SPAN - Span of Correlation Sample	4	
SANG - S Wave Arrival Angle	40.0000	
DPAD - Disallowed Pad	AUTO	
DMAX - Maximum Dip Plotted	90	DEG
ELRA - Electrical Radius	.500000	IN
SDFA - Side-By-Side Distance Factor	.900000	
HQUA - High Quality Dip	14	
LQUA - Low Quality Dip	6	
STDI - Structural Dip	0.0	DEG
STDA - Structural Azimuth Value	0.0	DEG
CSBL - CSB Number of Levels	2	
BS - Bit Size	7.87500	IN
BHS - BoreHole Status (Open or Cased)	OPEN	

REPEAT SECTION

MEST CYBERDIP

STRUCTURAL DIP NOT REMOVED

MIRROR IMAGES REMOVED

SPEED CORRECTION NOT APPLIED

ACCUMULATED INTEGRATION VALUES SUMMARY:

```
Integrated Hole Volume:   94.2716 F3    FROM 2547.00 F    TO 2330.00 F
Integrated Cement Volume: 70.3048 F3    FROM 2547.00 F    TO 2330.00 F
  (ASSUMING 4.50000 IN   O.D. CASING)
```

EVENT MARK SUMMARY:

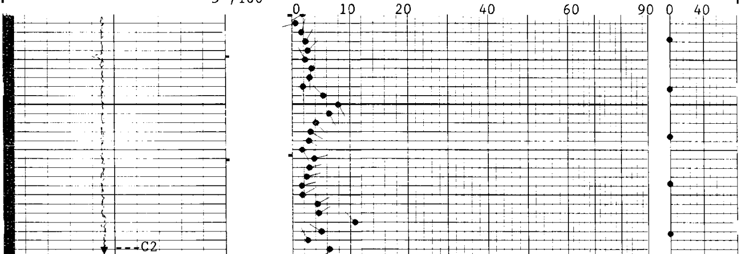
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
Integrated Hole Volume	10.0000 F3	LEFT EDGE
Integrated Cement Volume	10.0000 F3	RIGHT EDGE

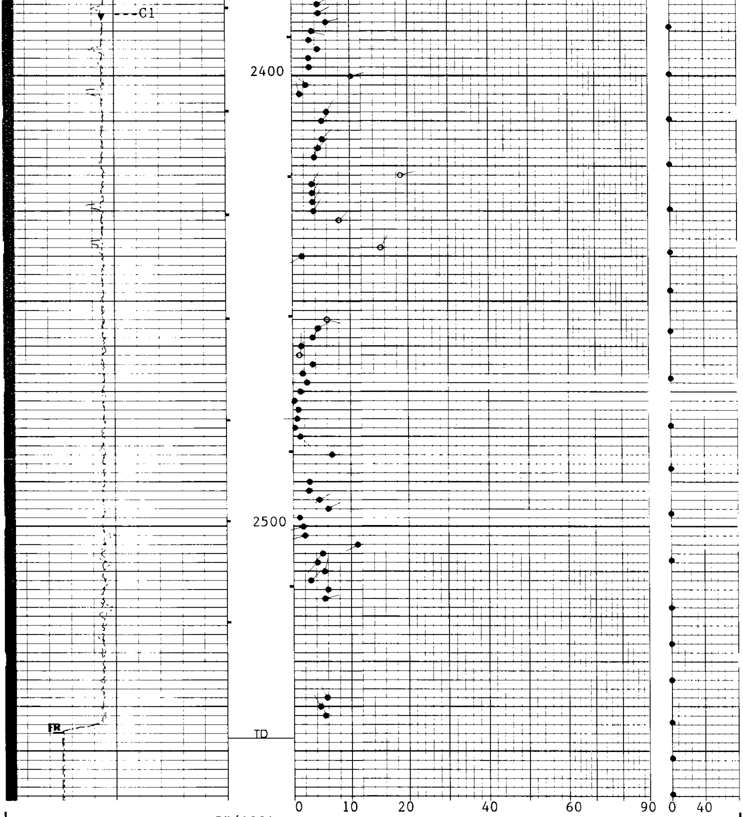
Curve	Left	Right
C2(IN)	0.0	20.000
C1(IN)	0.0	20.000

```
CP 38.2          FILE    2      22-OCT-1993 10:20

                 INPUT FILE(S)  CREATION DATE
                      3         21-OCT-1993 22:38

                 5"/100'
```





5"/100'

```
CP 38.2            FILE    2       22-OCT-1993 10:14

                   INPUT FILE(S)   CREATION DATE
                         3         21-OCT-1993 22:38
```

C2(IN)

0.0 20.000

C1(IN)

0.0 20.000

SENSOR MEASURE POINT TO TOOL ZERO

C1	1.1	FEET	TENS	0.0	FEET
MDRB	1.1	FEET	C2	1.1	FEET
MRPC	1.1	FEET	MRPD	1.1	FEET
MRPA	1.1	FEET	MRPB	1.1	FEET
AY	1.1	FEET	AX	1.1	FEET
FX	1.1	FEET	AZ	1.1	FEET
FZ	1.1	FEET	FY	1.1	FEET
FCAY	1.1	FEET	FCAX	1.1	FEET
FTIM	1.1	FEET	FCAZ	1.1	FEET

PARAMETERS

PARAMETER	VALUE	UNIT
PADT - Presentation Allow Disallow Threshold	.500000	DEG
PP - Playback Processing	RECO	
DO - Depth Offset for Logical Unit LI1	0.0	F
FCSR - Fast Channel Sample Rate	0.1"	
AFMO - Accelerometer Filtering Mode	HAMM	
ICMO - Inclinometry Computation Mode	AUTO	
MDEC - Magnetic Field Declination	19.0000	DEG
GLM - GPIT Logging Mode	DIPM	
ICSD - Inclinometry Computation Stop Depth	502.000	F
RBS - Resistivity Button Selection	AUTO	
PTYP - Platform Type	MEC	
MLM - MEST Logging Mode	1800	
SOFF - Stand Off	-1.00000	IN
CSR - Curves Sampling Rate	.6"	
ODFO - Output Data Format	LIS	
XMOD - EMEX Voltage Regulation Mode	MANU	
XGAI - Gain Setting	2	
XOFF - Offset Setting	0	
FCD - Future Casing Diameter	4.50000	IN
SPCR - Speed Correction Constant	DISA	
DSCA - Deviation Scale	40	DEG
SBUT - Set of Buttons Selected	ALL	
INT - Correlation Interval Length	4.00000	F
STEP - Step Length between Correlations	2.00000	F
SPAN - Span of Correlation Sample	4	
SANG - S Wave Arrival Angle	40.0000	
DPAD - Disallowed Pad	AUTO	
DMAX - Maximum Dip Plotted	90	DEG
ELRA - Electrical Radius	.500000	IN
SDFA - Side-By-Side Distance Factor	.900000	
HQUA - High Quality Dip	14	
LQUA - Low Quality Dip	6	
STDI - Structural Dip	0.0	DEG
STDA - Structural Azimuth Value	0.0	DEG
CSBL - CSB Number of Levels	2	
BS - Bit Size	7.87500	IN
BHS - BoreHole Status (Open or Cased)	OPEN	

COMPANY	NAHAMA AND WEAGANT ENERGY CO.			**SCHL.**	**FR**	**2545.0 F**
				SCHL.	**TD**	**2547.0 F**
WELL	SALMON BERRY H.N.R. #24-22-64			**DRLR.**	**TD**	**2553.0 F**
				Elev:	**KB**	**1117.0 F**
FIELD	MIST				**DF**	**1116.0 F**
COUNTY	COLUMBIA	**STATE**	OREGON		**GL**	**1107.0 F**

Schlumberger

CYBERDIP