

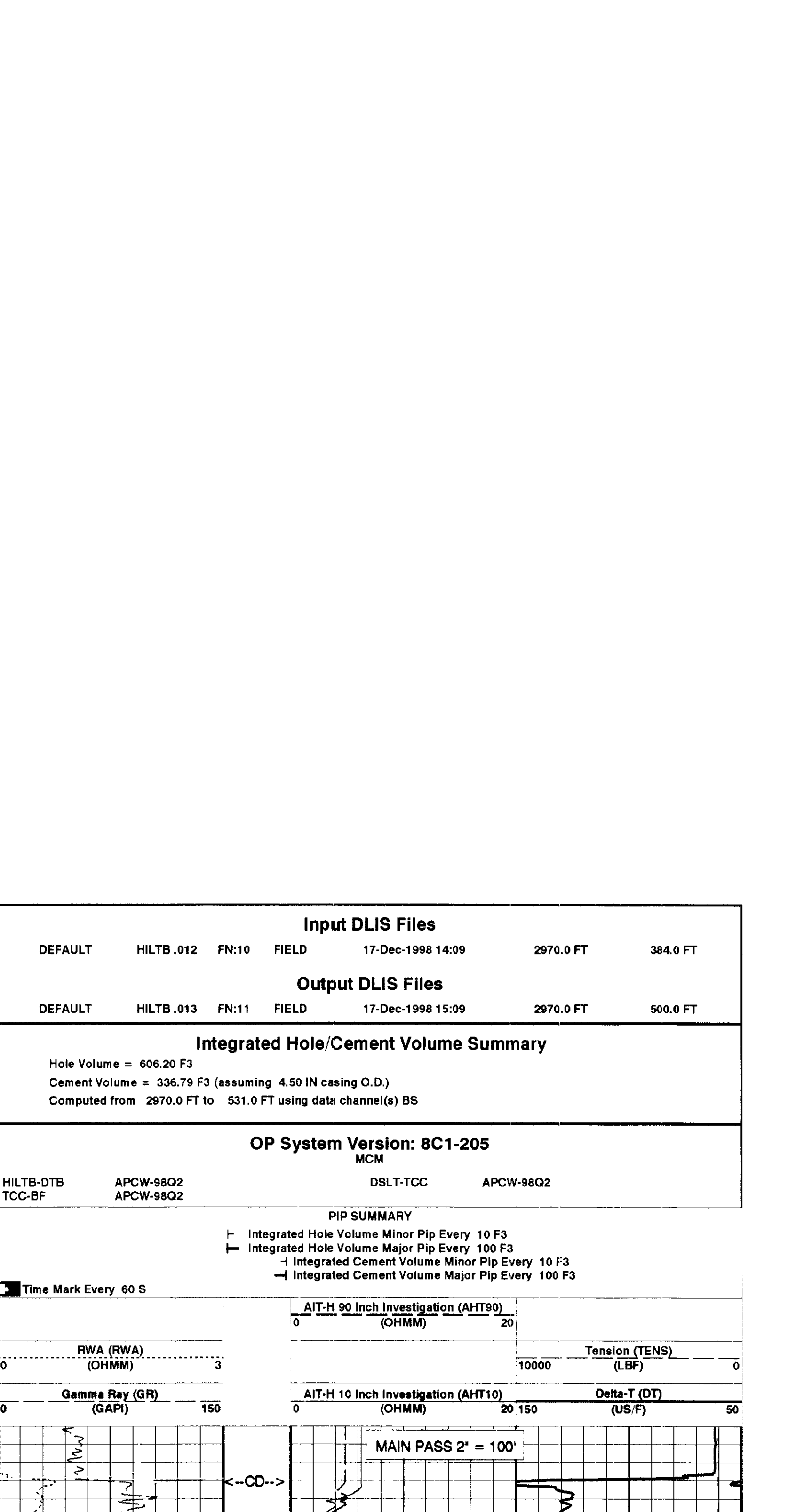
COMPANY: Enerfin Resources Northwest  
 WELL: CC 41-06-65 (Fishwhack)  
 FIELD: Mist  
 COUNTY: Columbia STATE: Oregon  
 LOCATION: 2' - 100' Schlumberger Array Induction BHC Sonic Gamma Ray SP  
 COUNTY: Columbia STATE: Oregon

Log Date: 17-DEC-1998	Log Time: 08:30	Well: CC 41-06-65 (Fishwhack)	Well ID: 2' - 100'
Location: 50° 1' S 47 deg 3 min 9 sec	Well: CC 41-06-65 (Fishwhack)	Company: Enerfin Resources Northwest	Service Order #:
Log Depth: 2955.5 F	Log Depth: 2955.5 F	Log Depth: 2955.5 F	Log Depth: 2955.5 F
Log Depth: 2955.5 F	Log Depth: 2955.5 F	Log Depth: 2955.5 F	Log Depth: 2955.5 F
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ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE 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 RESPONSIBLE FOR ANY LOSS OF PROFITS, 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

OTHER SERVICES:	OTHER SERVICES:
OS1: InterACT	OS1: InterACT
OS2: InterACT	OS2: InterACT
OS3: InterACT	OS3: InterACT
OS4: InterACT	OS4: InterACT
OS5: InterACT	OS5: InterACT
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2

EQUIPMENT DESCRIPTION			
RUN 1	RUN 1	RUN 2	RUN 2
<b>SURFACE EQUIPMENT</b>			
<b>DOWNHOLE EQUIPMENT</b>			
3610900000	3610900000	3610900000	3610900000
3610900000	3610900000	3610900000	3610900000



DEFAULT	HILTB.012	FN:10	FIELD	17-Dec-1998 14:09	2970.0 FT	384.0 FT
DEFAULT	HILTB.013	FN:11	FIELD	17-Dec-1998 15:09	2970.0 FT	500.0 FT

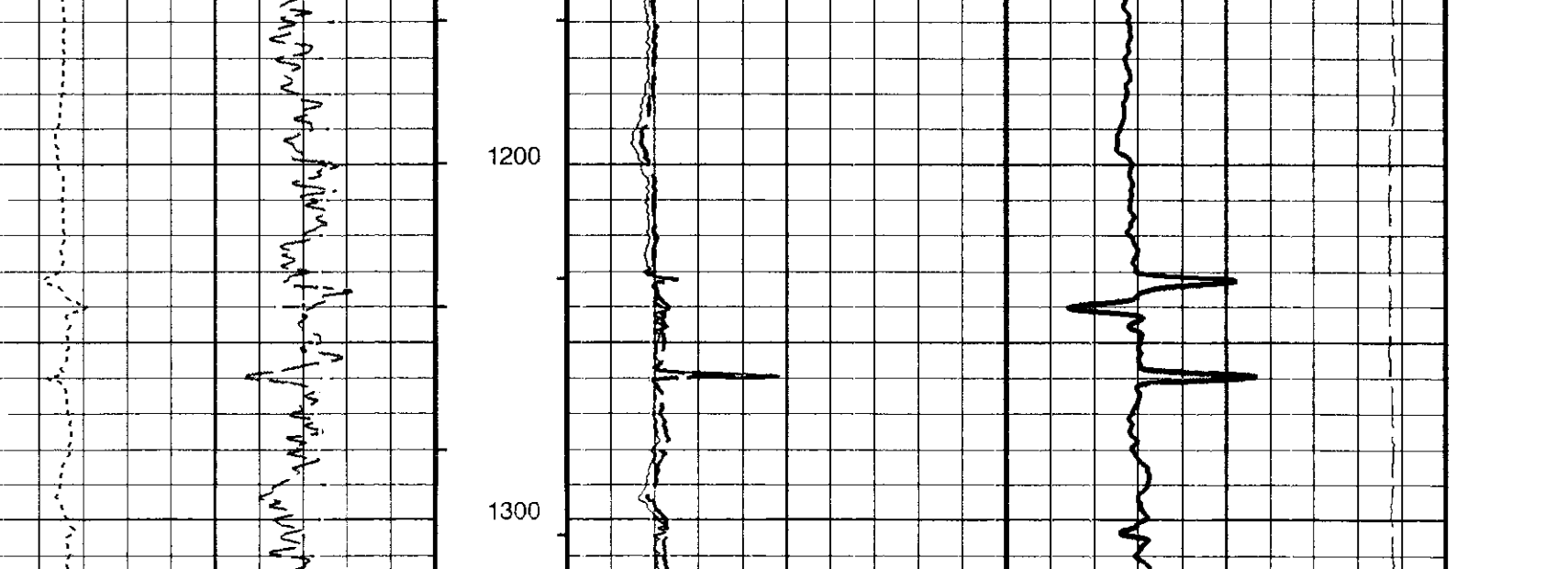
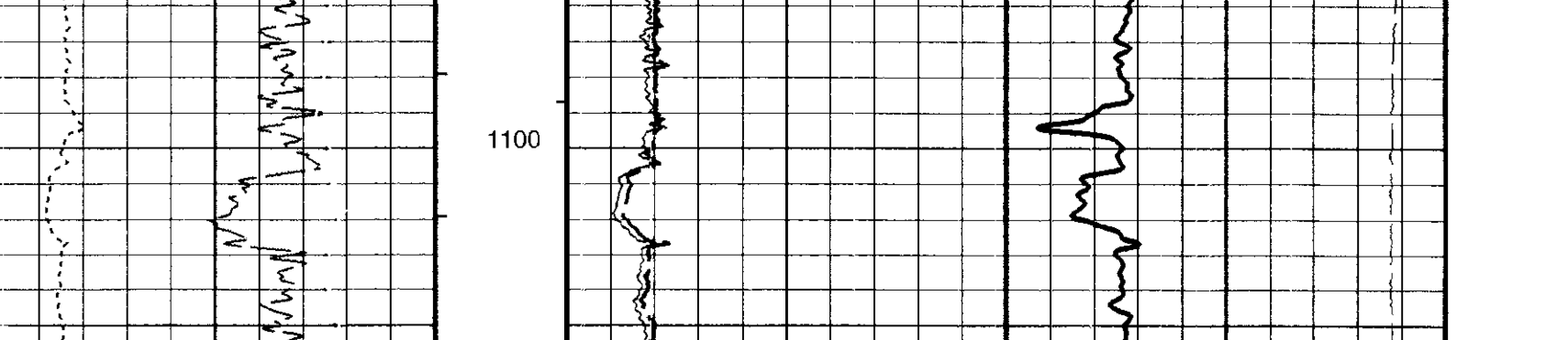
Integrated Hole/Cement Volume Summary		
Hole Volume = 606.20 F3	Cement Volume = 336.79 F3 (assuming 4.50 IN casing O.D.)	Computed from 2970.0 FT to 531.0 FT using data channel(s) BS

OP System Version: 8C1-205

HILTB-DTB	APCW-98Q2	MCM	DSLTT-TCC	APCW-98Q2
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PIP SUMMARY

Integrated Hole Volume Minor Pip Every 100 F3  
 Integrated Hole Volume Major Pip Every 100 F3  
 Integrated Cement Volume Minor Pip Every 10 F3  
 Integrated Cement Volume Major Pip Every 100 F3



Time Mark Every 60 S

AIT-H Answer Product Processing Summary. Data taken with tool # 277 (AHT10)

...Acquired data from HILTT/HAIT

\*\*\*\* Borehole Correction \*\*\*\*

Effective Electrical Diameter computed. Borehole mud resistivity taken as input (see GRSE parameter)  
 The Mud Resistivity Factor (AH/SMRF) is 1.00000 and was computed at following depth (AHMRD) 0.00 FT  
 Tool is run in ECCENTRED mode with a tool stand-off of 0.50 IN. Bit Size is 6.75 IN.

Surface (GCSE): BS  
 Temperature (TSEN): LINEAR ESTIMATE  
 Porosity (FPH): SPH  
 AIT-H Tool Cementing Flag (in Borehole) Yes  
 AIT-H Casing Shoe Estimated Depth (CSD) 0.00  
 AIT-H Mud Resistivity Factor 1.00000  
 AIT-H Tool Standoff 0.50  
 AIT Rt Selection (for ALLRES computation) 13  
 Bottom Hole Temperature (used in calculations) 20  
 Bit Size 6.750  
 Drilling Fluid Density 8.20  
 Depth Offset 0.0  
 Delta-T Computation Mode FULL  
 Form Factor Exponent 2  
 Form Factor Numerator 1  
 Form Factor Porosity Source BS  
 Generalized Caliper Selection NORMAL  
 Average Angular Deviation of Borehole from Normal 0  
 Geothermal Gradient 0.01  
 Generalized Temperature Selection AITH RESIST  
 Generalized Temperature Selection LINEAR ESTIMATE  
 HILTT Speed Correction Mode TSCD\_SPEED\_CORRECTION  
 STH Uses HILTT Acceleration YES  
 Sonic Firing Mode BHC  
 Mud Sample Temperature 85.00  
 Playback Processing NORMAL  
 Resistivity of Mud Filtrate Sample 3.9100  
 Form Factor Porosity Source BS  
 RTICO - Rt Inversion Correction YES  
 Resistivity of Connate Water 1.0000  
 Surface Hole Temperature 2975  
 SP Next Value 56  
 Total Depth 2975 FT  
 Temperature of Connate Water Sample 100.00 DEG F

Format: AITSON.S2 Vertical Scale: 2" per 100 Graphics File Created: 17-Dec-1998 15:09

OP System Version: 8C1-205

HILTB-DTB	APCW-98Q2	MCM	DSLTT-TCC	APCW-98Q2
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Speed Corrected - Depth Matched LOG

DEFAULT	HILTB.012	FN:10	FIELD	17-Dec-1998 14:09	2970.0 FT	384.0 FT
DEFAULT	HILTB.013	FN:11	FIELD	17-Dec-1998 15:09	2970.0 FT	500.0 FT

DISLIS Name	Description	Value
AHBHM	AIT-H Borehole Correction Mode	1_ComputeElectricalDiameter
AHBLM	AIT-H Basic Logs Mode	0_One_Two_and_Four
AHCDE	AIT-H Casing Detection Enable	Yes
AHCRN	AIT-H Tool Cementing Flag (in Borehole)	Yes
AHCFSD	AIT-H Casing Shoe Estimated Depth	0.00000
AHMF	AIT-H Mud Resistivity Factor	1.00000
AHSTA	AIT-H Tool Standoff	0.50
AHST	AIT Rt Selection (for ALLRES computation)	13
AHST	Bottom Hole Temperature (used in calculations)	20
BS	Bit Size	6.750
DD	Drilling Fluid Density	8.20
DO	Depth Offset	0.0
DTCM	Delta-T Computation Mode	FULL
FXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
FPH	Form Factor Porosity Source	BS
GCSE	Generalized Caliper Selection	NORMAL
GDEV	Average Angular Deviation of Borehole from Normal	0
GRSD	Geothermal Gradient	0.01
GRSE	Generalized Temperature Selection	AITH RESIST
GRSD	Generalized Temperature Selection	LINEAR ESTIMATE
HSCM	HILTT Speed Correction Mode	TSCD_SPEED_CORRECTION
HTI	STH Uses HILTT Acceleration	YES
MDI	Sonic Firing Mode	BHC
MT	Mud Sample Temperature	85.00
PP	Playback Processing	NORMAL
RMFS	Resistivity of Mud Filtrate Sample	3.9100
RTIC	RTICO - Rt Inversion Correction	YES
RW	Resistivity of Connate Water	1.0000
SHT	Surface Hole Temperature	2975
SNW	SP Next Value	56
TD	Total Depth	2975
TWS	Temperature of Connate Water Sample	100.00

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HILTB-DTB	APCW-98Q2	MCM	DSLTT-TCC	APCW-98Q2
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COMPANY:	Bottom Log Interval
Enerfin Resources Northwest	2953 F
WELL: CC 41-06-65 (Fishwhack)	Schlumberger Depth
Field: Mist	2961 F
County: Columbia	Depth Driller
State: Oregon	2975 F
	Kelly Bushing
	919 F
	Drill Floor
	909 F
	Ground Level

2' = 100' Schlumberger Array Induction BHC Sonic Gamma Ray SP