Schlumberger

Dual Burst
Thermal Decay Time Log

COUNTY	Columbia
FIELD	Mist
LOCATION	102.97'S and 1099.69'E
WELL	Columbia County #14-23
COMPANY	Oregon Natural Gas

COMPANY Oregon Natural Gas

WELL Columbia County #14-23

FIELD Mist

COUNTY Columbia **STATE** Oregon

LOCATION 102.97'S and 1099.69'F
from NW corner

Other Services:

API SERIAL NO.	SECT.	TWP.	RANGE
NA	26	6N	5W

Permanent Datum	Ground Level	**Elev.**	652.7 I	**Elev.: K.B.**663.7 F
Log Measured From	Kelly Bushing	11.0 F	**above Perm. Datum**	**D.F.**
Drilling Measured From	Kelly Bushing			**G.L.**652.7 F

Date	21-JAN-1996			
Run No.	ONE			
Depth Driller	1563.0 F			
Depth Logger (Schl.)	1562.0 F			
Btm. Log Interval	1557.0 F			
Top Log Interval	500.0 F			
Type Fluid in Hole	WATER			
Salinity NaCl				
Density	8.50 LB/G			
Fluid Level				
Max. Rec. Temp.				
Deviation				
Logger on Bottom	10:46 21-JAN-1996			
Equip. | Location	8305	Evanston WY		
Recorded By	Scott Pilch			
Witnessed By	Clayton Roth/Todd Thomas			

BOREHOLE RECORD

Bit Size	8 1/2"			
Depth	2180.0 F			

CASING & TUBING RECORD

Size	5 1/2"			
Weight	17.0000 LB/F			
Casing Top-Driller				
Casing Top-Logger				
Casing Shoe-Driller	1563.0 F	1338.0 F		
Casing-Logger	1562.0 F	1338.0 F		

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

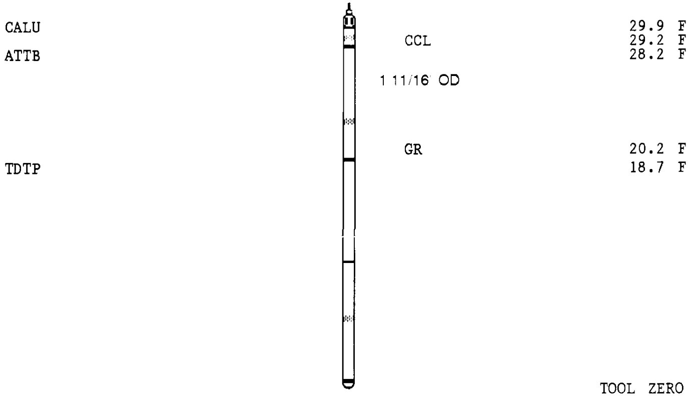
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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.	532866	
Logging Speed	1800.0 F/HR	
EQUIPMENT DATA		
Tool Number 1	TDT-P 4301	
Tool Number 2	ATT-B 1512	
Tool Number 3	CAL-U 433	
Tool Number 4	ATM-AA 286	
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 CBL of 11-Aug-1986.
PERFORATIONS FROM 1358 TO 1378 AND 1442 TO 1450.

LOGGING TOOL STRING SKETCH

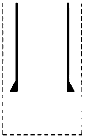


TOTAL TOOL STRING LENGTH IS 32.4 F.
TOTAL TOOL STRING WEIGHT IS 147. LB IN AIR.

>> Wellsketch <<

based on Driller depth

			Driller Depth (ft)	Wireline Depth (ft)
5.500"	CSG	SHOE	@ 1563	
8.500"	OH	TD	@ 2180	



Main Log

TENS(LBF)	2000.0	0.0
SIBH(CU)	100.00	0.0
GR(GAPI)	0.0	150.00
CCL	-19.00	1.0000
INFD(CPS)	1500.0	0.0
TPHI	.60000	0.0
SIGM(CU)	60.000	0.0
TSCF(CPS)	12000.	0.0
TSCN(CPS)	30000.	0.0

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CP 44.2             FILE     3       21-JAN-1996 11:24

                    INPUT FILE(S)   CREATION DATE
                         3          21-JAN-1996 12:00
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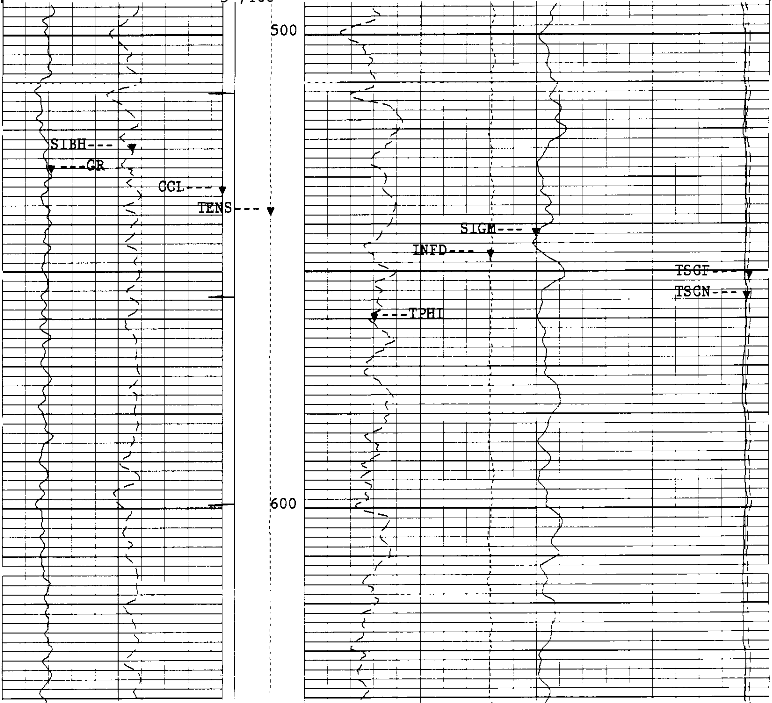
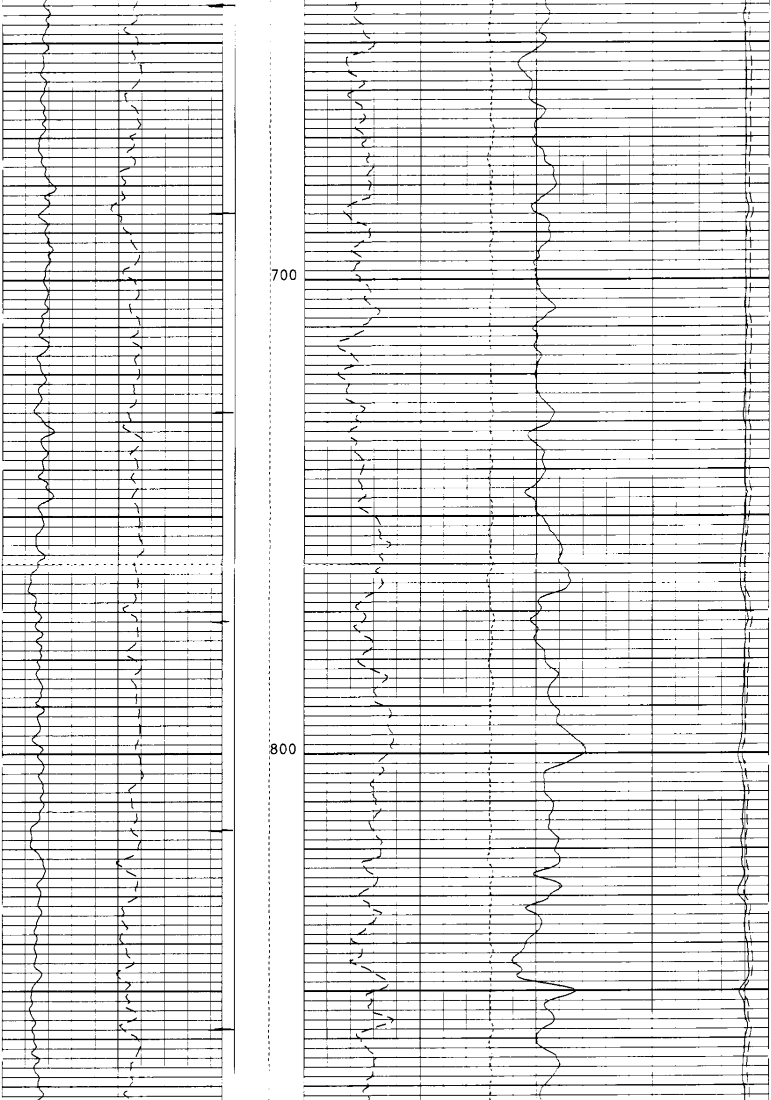
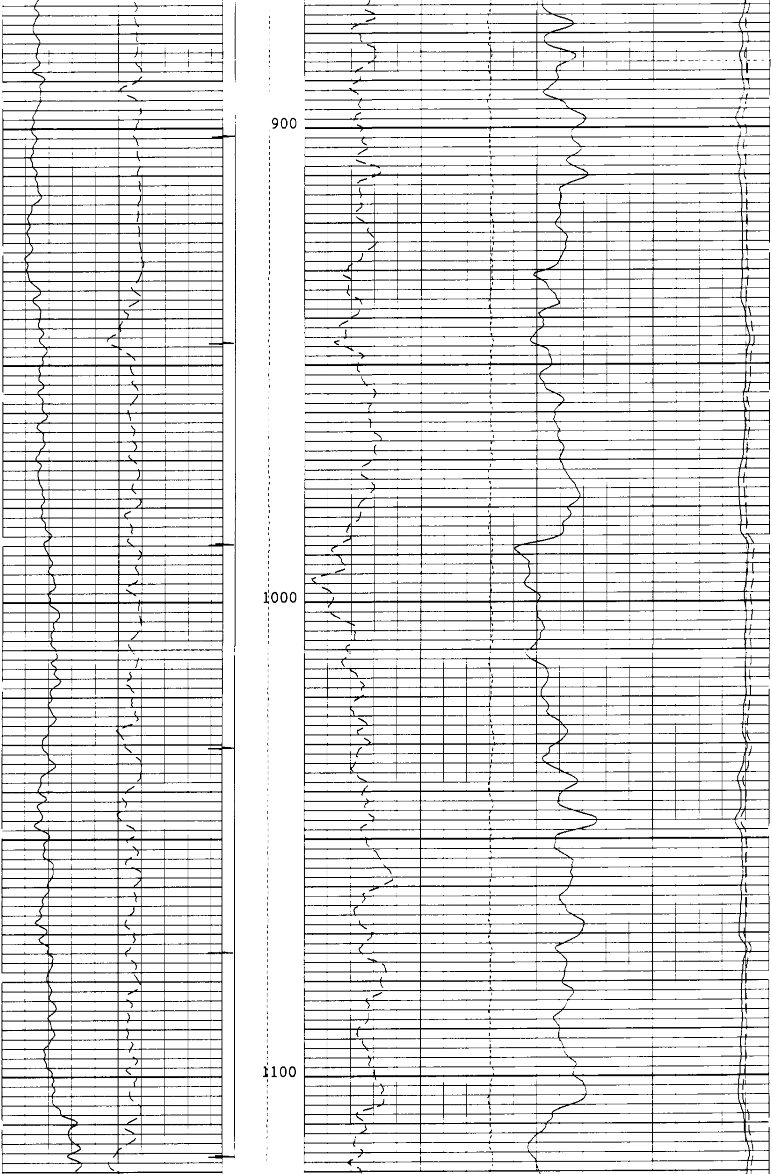
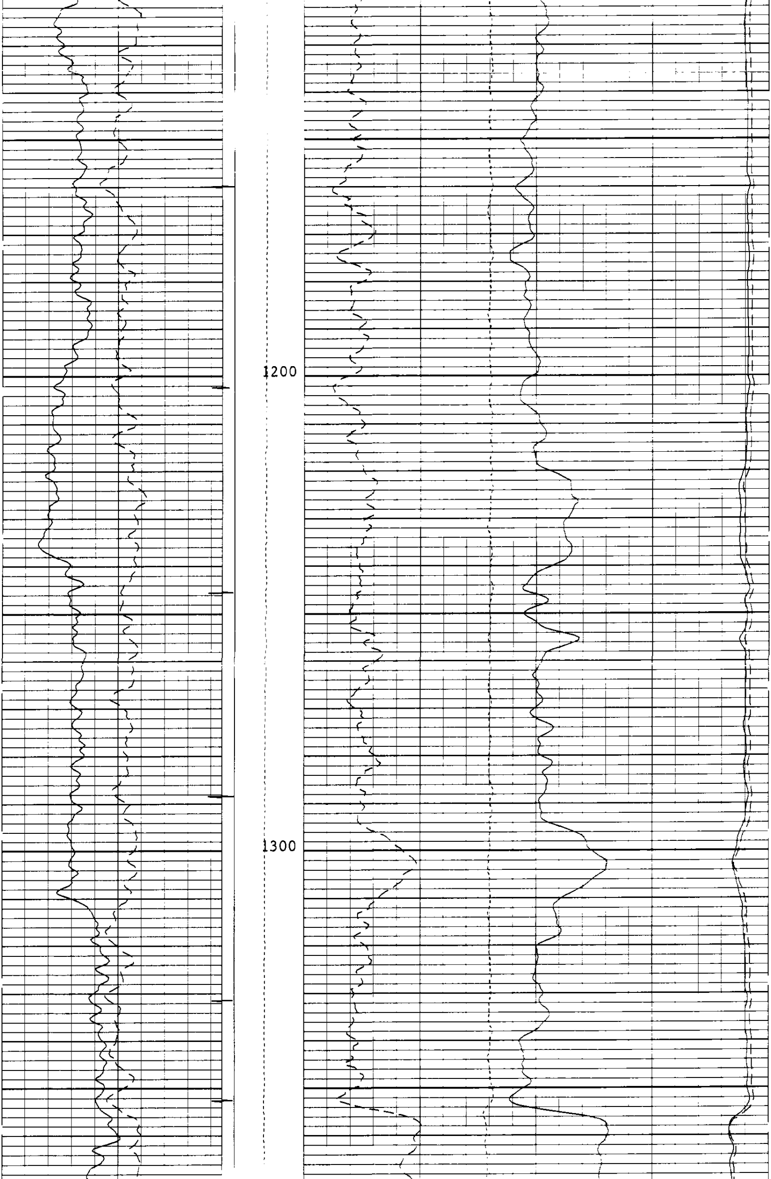
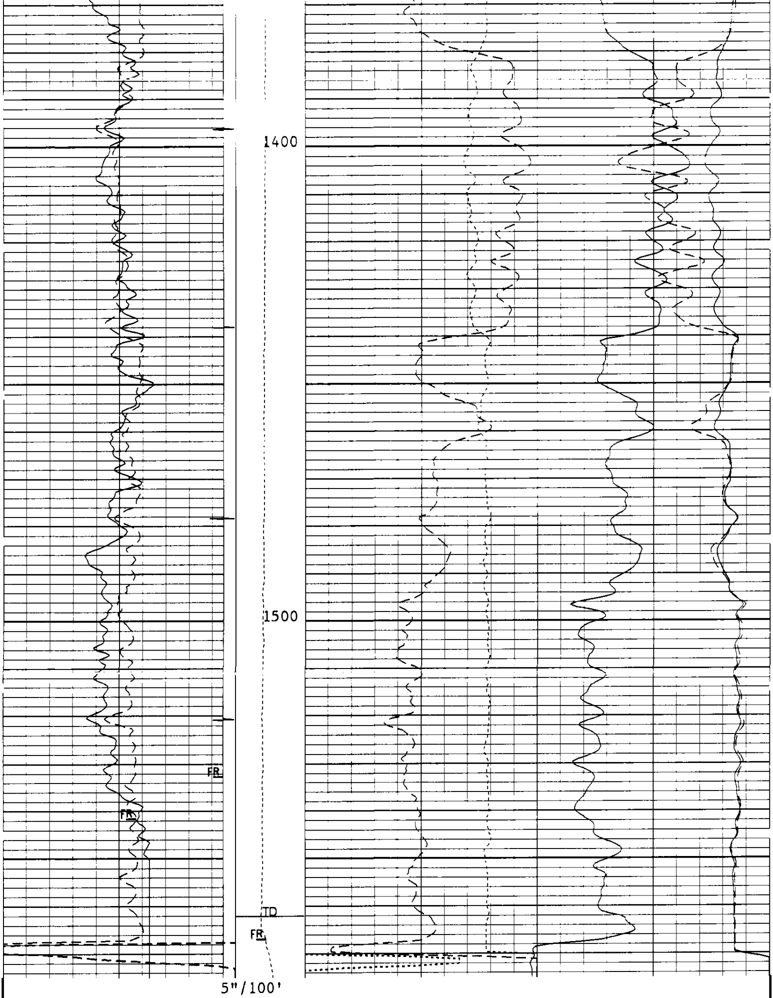
5"/100'











CP 44.2 FILE 3 21-JAN-1996 11:02

INPUT FILE(S) CREATION DATE
3 21-JAN-1996 12:00

TENS(LBF)	2000.0	0.0
SIBH(CU)	100.00	0.0
GR(GAPI)	0.0	150.00
CCL	-19.00	1.0000
NFD(CPS)	1500.0	0.0
TPHI	.60000	0.0
SIGM(CU)	60.000	0.0
TSCF(CPS)	12000	0.0
TSCN(CPS)	30000.	0.0

SENSOR MEASURE POINT TO TOOL ZERO

GR	20.3	FEET	CVEL	0.0	FEET
EXP3	0.0	FEET	EXT	0.0	FEET
EXP1	0.0	FEET	EXP2	0.0	FEET
CCL	29.2	FEET	TENS	-5.0	FEET
F15	6.7	FEET	F16	6.7	FEET
F13	6.7	FEET	F14	6.7	FEET
F11	6.7	FEET	F12	6.7	FEET
F9	6.7	FEET	F10	6.7	FEET
F7	6.7	FEET	F8	6.7	FEET
F5	6.7	FEET	F6	6.7	FEET
F3	6.7	FEET	F4	6.7	FEET
F1	6.7	FEET	F2	6.7	FEET
N15	6.2	FEET	N16	6.2	FEET
N13	6.2	FEET	N14	6.2	FEET
N11	6.2	FEET	N12	6.2	FEET
N9	6.2	FEET	N10	6.2	FEET
N7	6.2	FEET	N8	6.2	FEET
N5	6.2	FEET	N6	6.2	FEET
N3	6.2	FEET	N4	6.2	FEET
N1	6.2	FEET	N2	6.2	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PP	NORM		DO	1.00000	F
WMUD	8.50000	LB/G	TD	1562.00	F
MOT	33.1153	HR	DFPC	2	
RGAI	1.00000		BGAS	650.000	CPS
STBY	60.0000	S	PULS	10.0000	S
CWEI	17.0000	LB/F	GTSE	HPT	
SHT	80.0000	DEGF	BHT	95.0000	DEGF
NCJT	GSRE		FCHD	CSID	
PTHR	10.0000	F/MN	NTHR	-10.0000	F/MN
TIRA	.500000		VPCF	.830000	
DEVI	0.0	DEG	FDSH	0.0	G/C3
QIOP	FLOW		TCSH	0.0	IN
MATR	SAND		BS	8.50000	IN
BHS	CASE		CSIZ	5.50000	IN

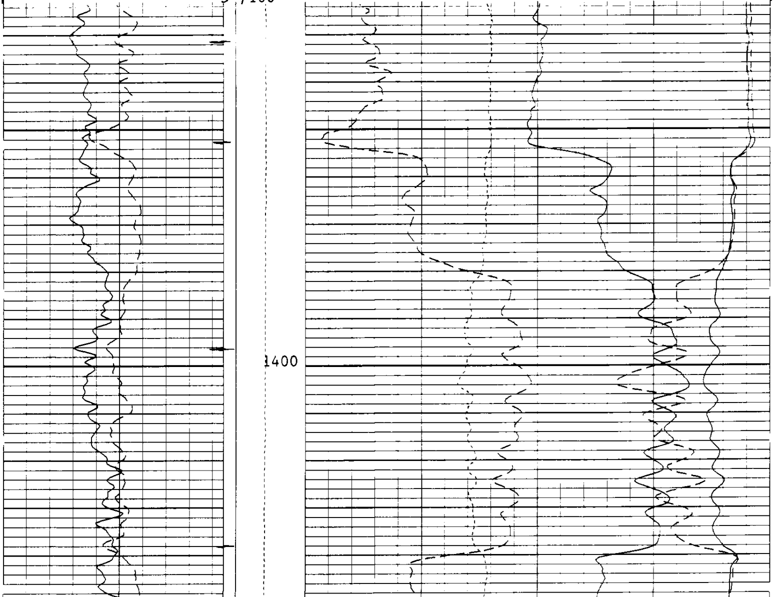
Repeat Section

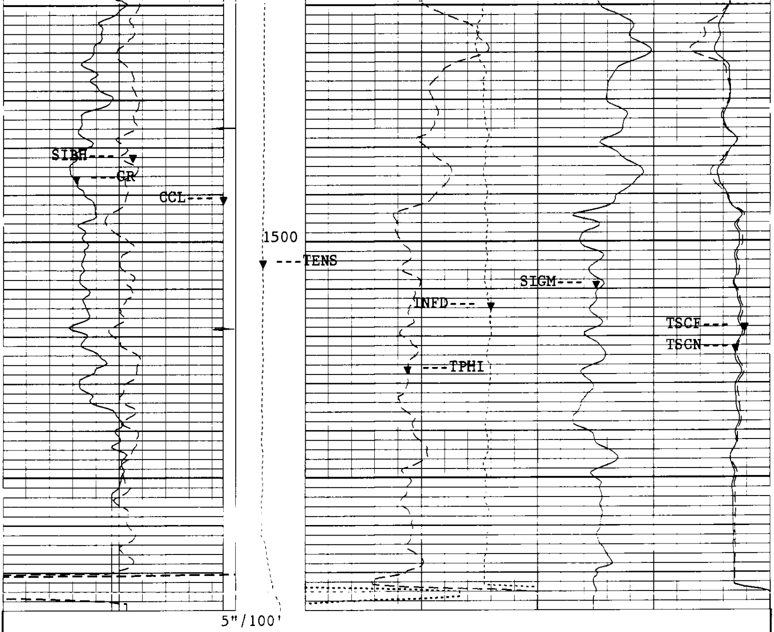
Curve	Left	Right
TENS(LBF)	2000.0	0.0
SIBH(CU)	100.00	0.0
GR(GAPI)	0.0	150.00
CCL	-19.00	1.0000
INFD(CPS)	1500.0	0.0
TPHI	.60000	0.0
SIGM(CU)	60.000	0.0
TSCF(CPS)	12000.	0.0
TSCN(CPS)	30000	0.0

CP 44.2 FILE 1 21-JAN-1996 10:50

INPUT FILE(S) CREATION DATE
2 21-JAN-1996 11:43

5"/100'





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CP 44.2          FILE     1       21-JAN-1996 10:50

                 INPUT FILE(S)    CREATION DATE
                       2          21-JAN-1996 11:43
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Curve	Left scale	Right scale
TENS(LBF)	2000.0	0.0
SIBH(CU)	100.00	0.0
GR(GAPI)	0.0	150.00
CCL	-19.00	1.0000
NFD(CPS)	1500.0	0.0
TPHI	.60000	0.0
SIGM(CU)	60.000	0.0
TSCF(CPS)	12000.	0.0
TSCN(CPS)	30000.	0.0

COMPANY	Oregon Natural Gas	**SCHL. FR**	1557.0 F
		SCHL. TD	1562.0 F
WELL	Columbia County #14-23	**DRLR. TD**	1563.0 F
		Elev: KB	663.7 F
FIELD	Mist	**DF**	
COUNTY	Columbia	**STATE** Oregon	**GL** 652.7 F

Schlumberger

Dual Burst
Thermal Decay Time Log