

COMPANY		WELL		FIELD		COUNTY		STATE		COMPANY WELL FIELD COUNTY STATE		COMPANY WELL FIELD COUNTY STATE		COMPANY WELL FIELD COUNTY STATE	
Permanent Datum		Log measured from		Drilling measured from		Date		Run No.		Depth - Driller		Depth - Logger		Bottom - Logged Interval	
GL		KB		KB		11-Nov-09		ONE		5666.00 ft		5663.0 ft		5643 ft	
Elev. 4547.0 ft		D.F.		G.L.											
4549.0 ft		4550.0 ft		4547.0 ft											
Sect. 6		Twp. 11		Rge. 52W											
API No. 0507507167		Location 1650' FNL & 1650' FEL NESWNE		Other Services: BSAAT DSNT											

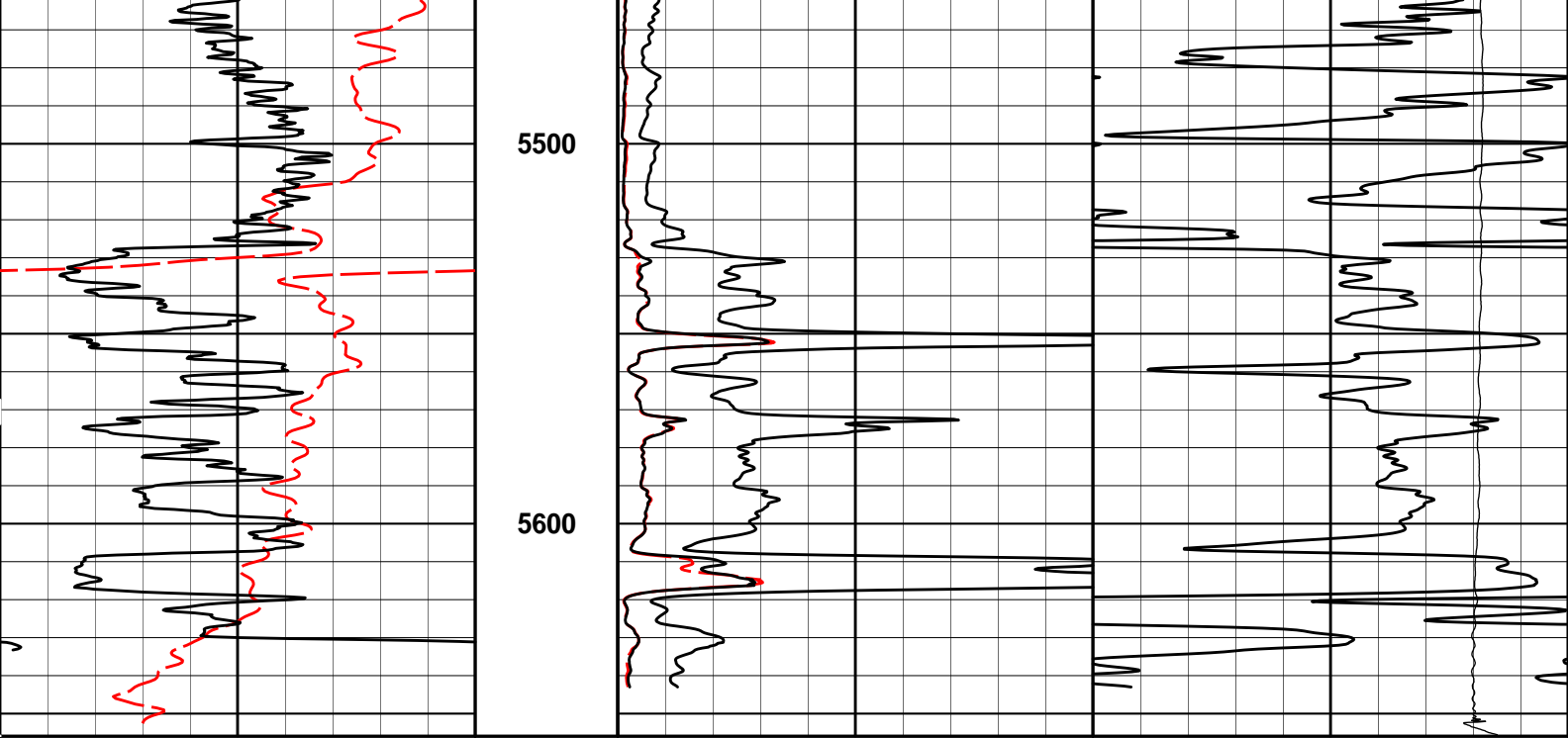
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Service Ticket No.: 7002705						API Serial No.: 0507507167						PGM Version: WL INSITE R2.4 (Build 20)																	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES																	
Date		Sample No.										Type Log		Depth		Scale Up Hole				Scale Down Hole									
Depth-Driller																													
Type Fluid in Hole																													
Density		Viscosity																											
Ph		Fluid Loss																											
Source of Sample												RESISTIVITY EQUIPMENT DATA																	
Rm @ Meas. Temp				@				@				Run No.		Tool Type & No.				Pad Type				Tool Pos.				Other			
Rmf @ Meas. Temp.				@				@				ONE		ACRT-E2817-S4				N/A				FREE				N/A			
Rmc @ Meas. Temp.				@				@																					
Source Rmf		Rmc																											
Rm @ BHT				@				@																					
Rmf @ BHT				@				@																					
Rmc @ BHT				@				@																					
EQUIPMENT DATA																													
GAMMA						ACOUSTIC						DENSITY						NEUTRON											
Run No.		ONE				Run No.						Run No.						Run No.											
Serial No.		11294346				Serial No.						Serial No.						Serial No.											
Model No.		GTET				Model No.						Model No.						Model No.											
Diameter		3.625"				No. of Cent.						Diameter						Diameter											
Detector Model No.		102-T				Spacing						Log Type						Log Type											
Type		SCINT										Source Type						Source Type											
Length		8"				LSA [Y/N]						Serial No.						Serial No.											
Distance to Source		N/A				FWDA [Y/N]						Strength						Strength											

[illegible]

HALLIBURTON

MAIN PASS 2" = 100'



0	SP	100	1 : 600	0	DEEP RES	100	10K	Tens	0
	millivolts				ohm-metre			pounds	
0	Gamma API	250		0	SHALLOW	100	500	DEEP CON	0
	api				ohm-metre			mmho per metre	
				0	AMP SHALLOW	20			
					ohm-metre				

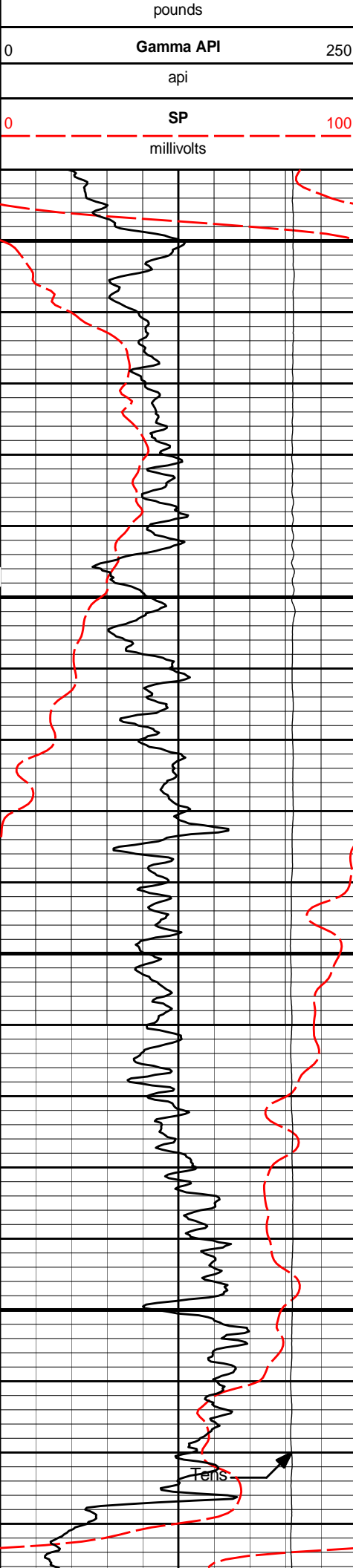
HALLIBURTON	Plot Time: 12-Nov-09 02:33:47 Plot Range: 5340 ft to 5655.92 ft Data: {ActiveWell}\Well Based\DAQ-0001-002\ Plot File: \\ACRT\IQ_ACRT_2IN_RM
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MAIN PASS 2" = 100'

HALLIBURTON	Plot Time: 12-Nov-09 02:33:48 Plot Range: 5340 ft to 5655.92 ft Data: {ActiveWell}\Well Based\DAQ-0001-002\ Plot File: \\ACRT\IQ_ACRT_5IN_RM
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MAIN PASS 5" = 100'

10K	Tens	0	0.2	RT10	2K
				Ohm-m	
			0.2	RT20	2K
				Ohm-m	
			0.2	RT30	2K



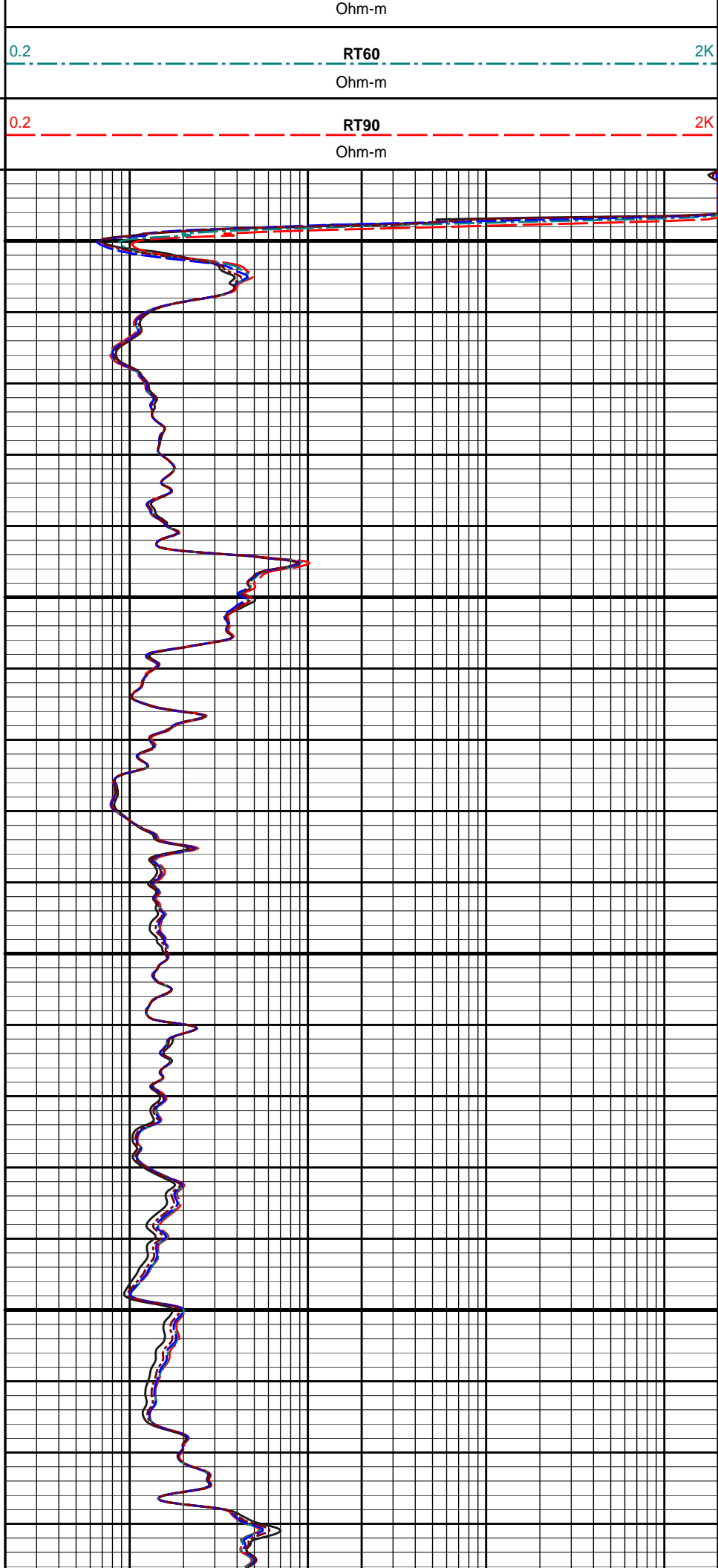
1 : 240

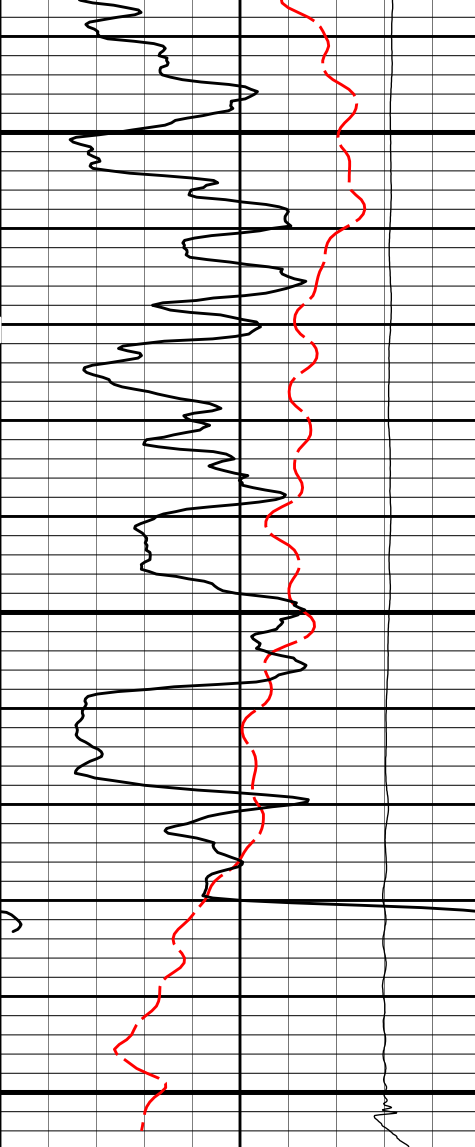
5350

5400

5450

5500

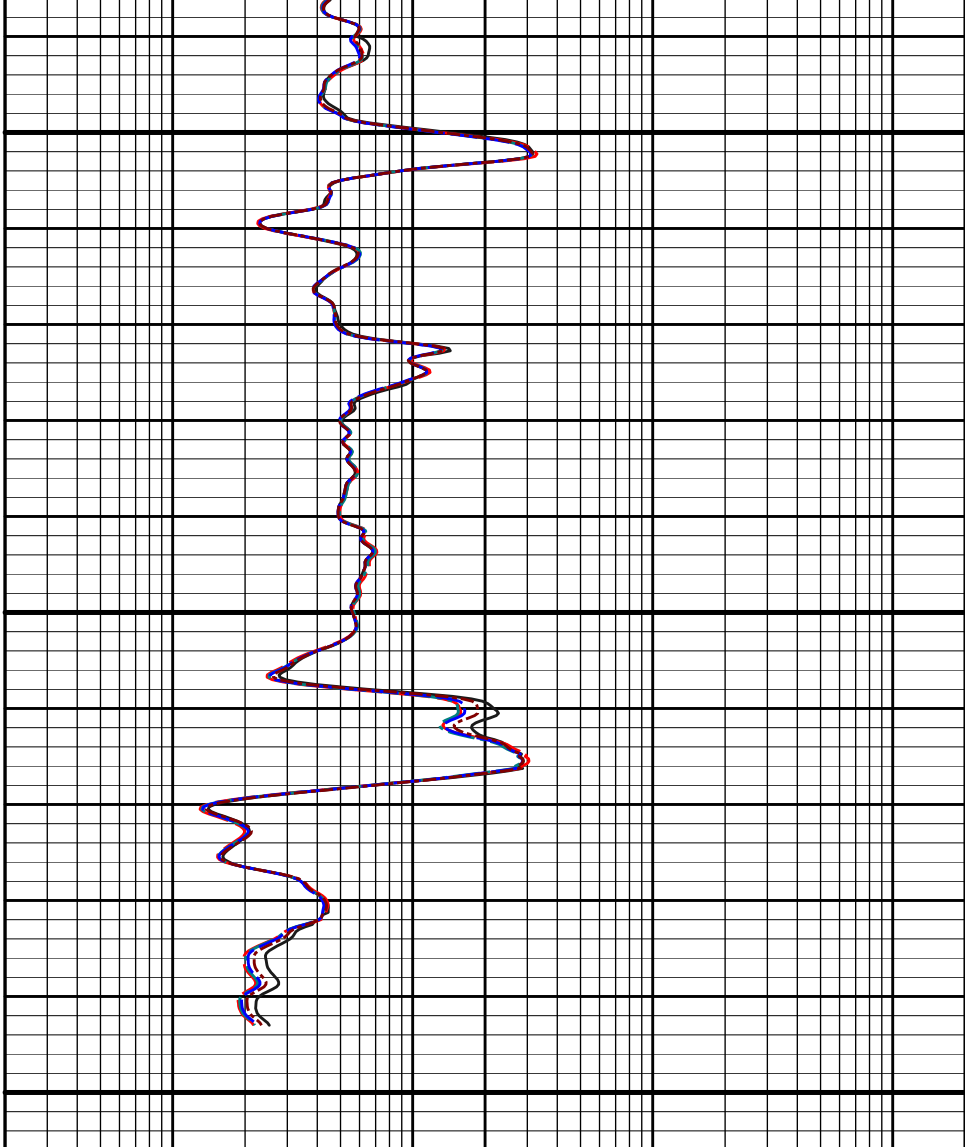




5550

5600

5650



0	SP	100
	millivolts	
0	Gamma API	250
	api	
10K	Tens	0
	pounds	

1 : 240


0.2	RT90	2K
	Ohm-m	
0.2	RT60	2K
	Ohm-m	
0.2	RT30	2K
	Ohm-m	
0.2	RT20	2K
	Ohm-m	
0.2	RT10	2K
	Ohm-m	

HALLIBURTON

Plot Time: 12-Nov-09 02:33:50
Plot Range: 5340 ft to 5655.92 ft
Data: {ActiveWell}\Well Based\DAQ-0001-002\
Plot File: \ACRT\IQ_ACRt_5IN_RM

MAIN PASS 5" = 100'

TOOL STRING DIAGRAM REPORT

Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-B097 135.00 lbs	Ø 3.625 in →		← Load Cell @ 30.67 ft ← BH Temperature @ 30.10 ft	6.25 ft	34.35 ft
GTET-11294346 165.00 lbs	Ø 3.625 in →		← GammaRay @ 22.04 ft	8.52 ft	28.10 ft
					19.58 ft
ACRT-90199477-E2817-S4353 250.00 lbs	Ø 3.625 in →		← Mud Resistivity @ 13.19 ft ← ACRT @ 9.21 ft	19.25 ft	
			← SP @ 1.61 ft		
Bull Nose-BN 5.00 lbs	Ø 2.750 in →			0.33 ft	0.33 ft
				0.33 ft	0.00 ft

Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	B097	135.00	6.25	28.10	300.00
GTET	Natural Gamma Ray Tool	11294346	165.00	8.52	19.58	60.00
ACRT	Array Compensated True Resistivity	90199477-E2817-S4353	250.00	19.25	0.33	300.00
SP	SP Ring	PROTO1	0.00	0.25 *	1.61	300.00
BLNS	Bull Nose	BN	5.00	0.33	0.00	300.00
Total			555.00	34.35		
* Not included in Total Length and Length Accumulation.						
Data: SCHWAKE_A_1\0001 ACRT\IDLE					Date: 11-Nov-09 23:48:40	

WELL	SCHWAKE A-1		
FIELD	WEST PEETZ		
COUNTY	LOGAN	STATE	CO
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	