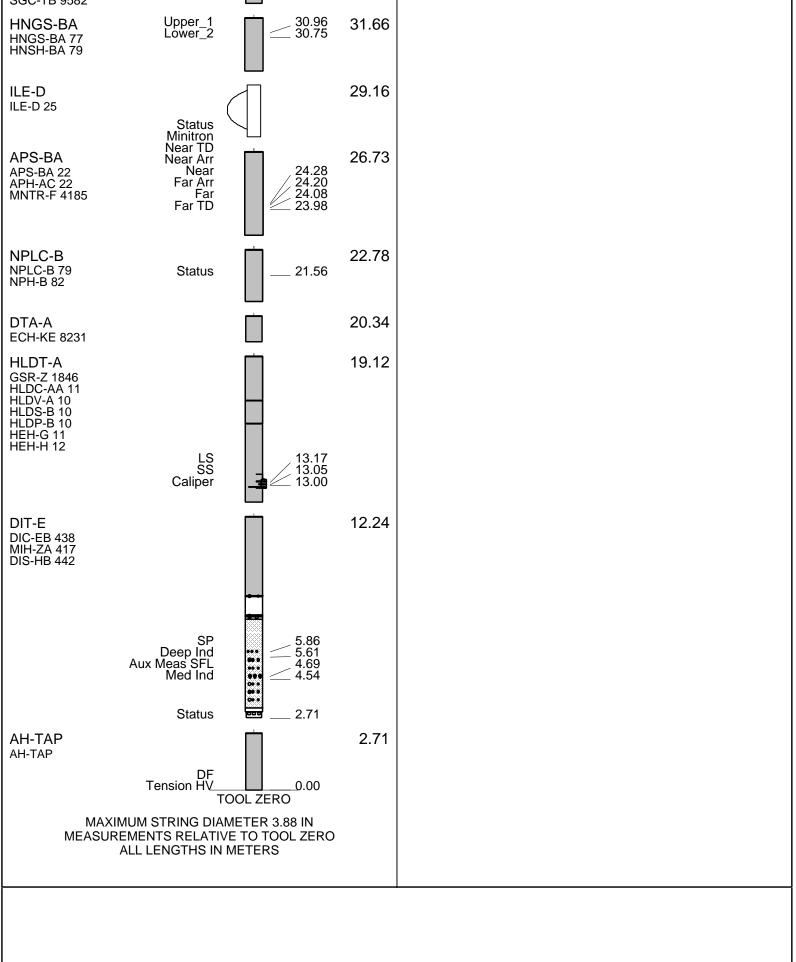
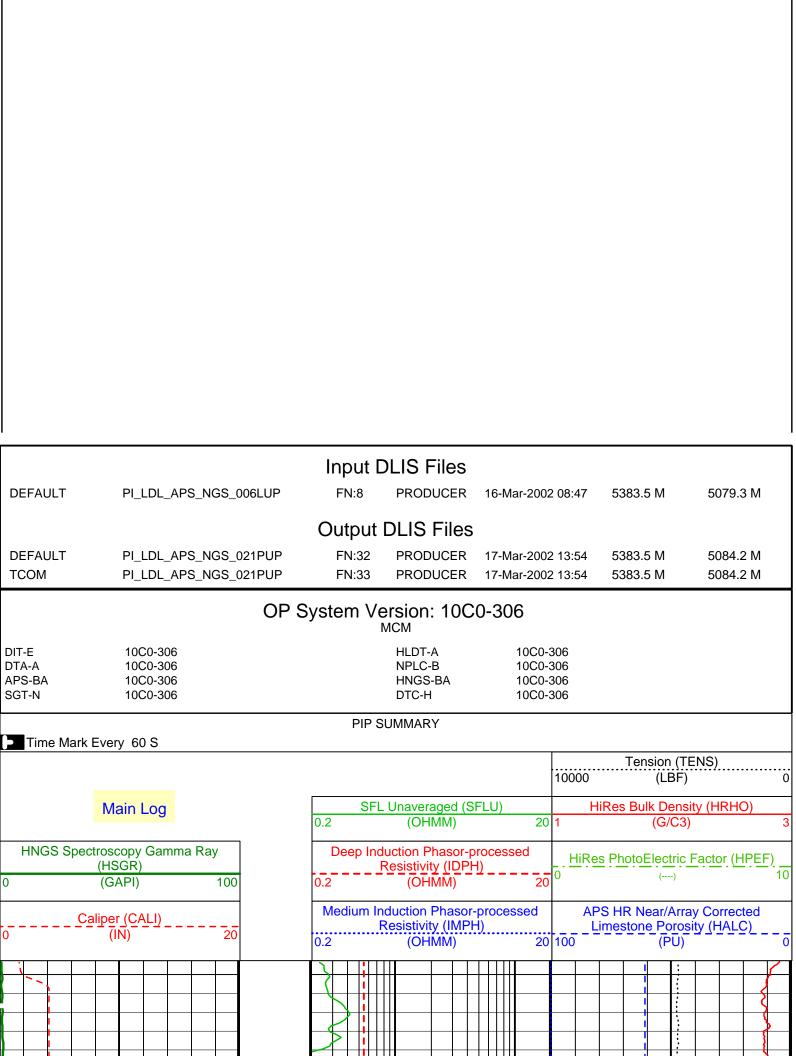
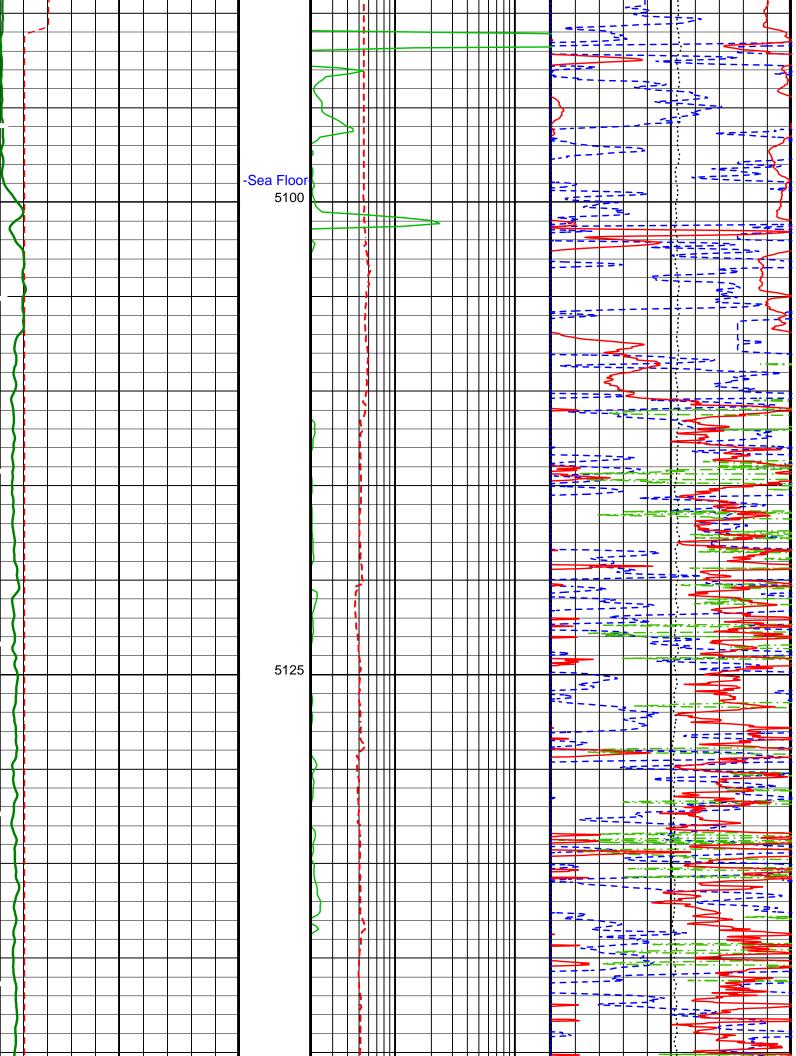
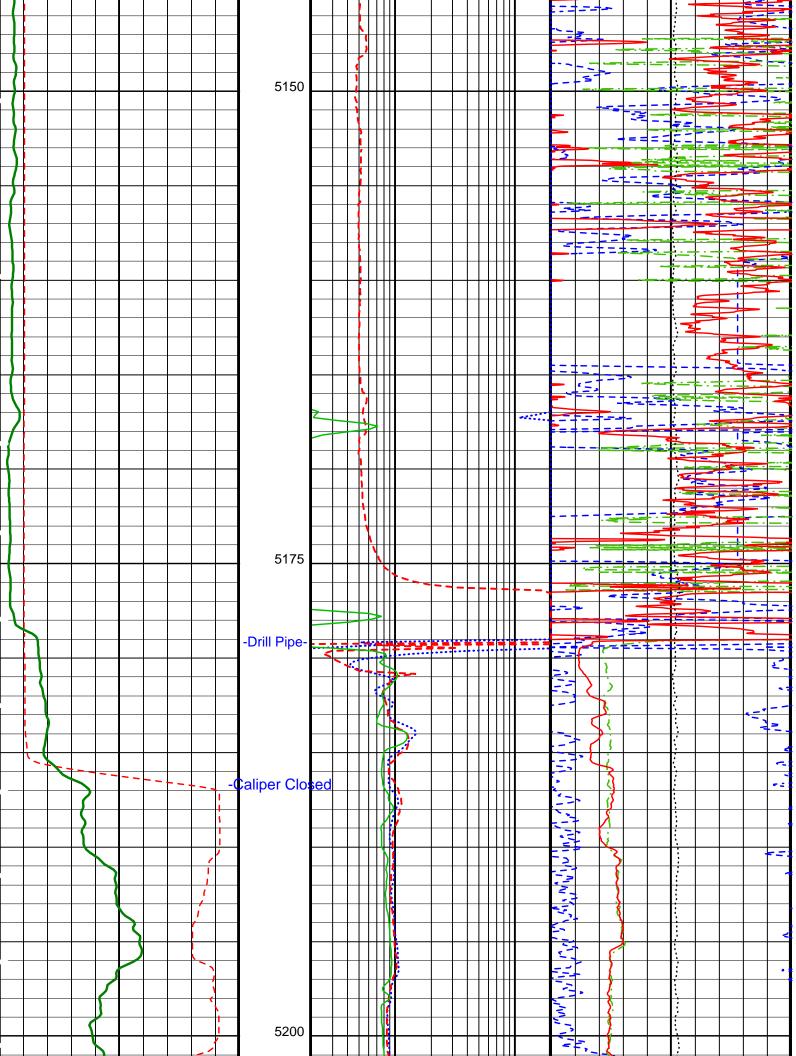
						Run 1	Run 2	Run
		Schimhenner					3	
Company: Lamont	Lamont Doherty							
ODP L	eg 201, Site 1230A PRU-4A	U-4A						
d: Peru N								
	JOIDES Resolution Ocean	Ocean: Pacific						
	IPLT Triple Combo							
0A PI	with Phasor Induction							
Latitu	Rav							
9' S , Site	29' S Latitude	Elev.: K.B. 11.3 m	<u> </u>					
6.752 g 201 Dohe DN	80 Deg 35.01' W Longitude		3 —					
Mag 0 Le ont								
Peru 9 De ODF	Jatum: MSL RKB	Elev.:U m] ====================================					
any:	1 1							
Rig: Field: Locati Vell: Comp	API Serial No. Max. Hole Devi.	Longitude	Latitude					
ogging Date	16-Mar-2002			Logging Date				
Run Number	1		Z)	Run Number				
Depth Driller	5375 m			Depth Driller				
Schlumberger Depth Bottom og Interval	5379 m		J 0	Schlumberger Depth	epth			
Top Log Interval	5099 m		-10	Top Log Interval	VGI			
Casing Driller Size @ Depth	0.000 in @ 5178 m	@	0	Casing Driller Size @ Depth	ze @ Depth		@	
Casing Schlumberger	5179 m		2 0	Casing Schlumberger	erger			
Type Fluid In Hole	11.438 in		- ¤	Bit Size				
Density Viscosity	1.07 g/cm3		_	Density	Viscosity			
SS			MUI	Fluid Loss	PH			
	8			Source Of Sample	ole)	
RM @ Measured Temperature	0.235 ohm.m @ 33 degC		7 7	RM @ Measured Temperature	Temperature		9 9	
RMF @ Measured Temperature	()	0 0	7 7	RMF @ Measured Temperature	d Temperature		(9)	
RMC @ Measured Temperature Source RMF RMC	none none	@	S Z	RMC @ Measured Temperature Source RMF RMC	ed Temperature RMC		@	
RM @ MRT RMF @ MRT	0.421 @ 9	@	(e)	RM @ MRT	RMF @ MRT	@	@	
Tempera	9 degC) <	Maximum Record	Tempera			
Circulation Stopped Time	16-Mar-2002 3:00			Circulation Stopped	Ded Time			
Location	ouston ODP			Unit Number	Location			
Recorded By	K. Swain		_Z	Recorded By				
Witnessed By	Gilles Guerin		S	Witnessed By				

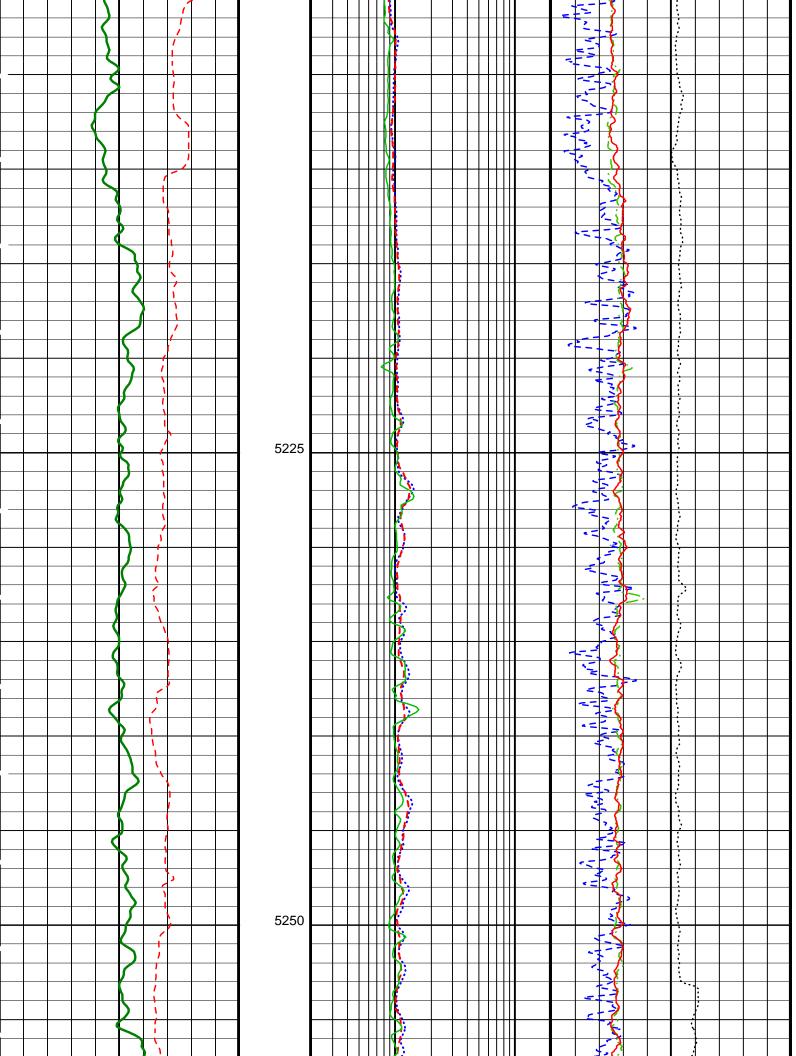
				ω ω
	(8)			Run 4
AFFILIATES, PARTNE AND CONDITIONS A USE OF THE RECOR COMPANY'S USE OF	DISCL LIANCE UPON THIS RECORDED-DATA BY ERS, REPRESENTATIVES, AGENTS, CONS GREED UPON BETWEEN SCHLUMBERGEI DED-DATA; (b) DISCLAIMERS AND WAIVER AND RELIANCE UPON THE RECORDED-D E DRAWN OR DECISION MADE IN CONNEC	THE HEREIN NAMED COMPANY (A ULTANTS AND EMPLOYEES) IS SU R AND THE COMPANY, INCLUDING RS OF WARRANTIES AND REPRESI ATA: AND (c) CUSTOMER'S FULL A	BJECT TO THE TE 6: (a) RESTRICTIO ENTATIONS REGA ND SOLE RESPO	NS ON ARDING
OS1: DITE/APS/HLDT OS2: MEST/DSST OS3: OS4: OS5:		OS1: OS2: OS3: OS4: OS5:		
Sepliolite mud was used to d		REMARKS: RUN NUMBER 2		
Low background countrate or				
SERVICE ORDER #: PROGRAM VERSION:	RUN 1 10C0-306	RUI SERVICE ORDER #: PROGRAM VERSION:	N 2	
FLUID LEVEL: LOGGED INTERVAL	START STOP	FLUID LEVEL: LOGGED INTERVAL	START	STOP
	EQUIPMENT RUN 1		JN 2	
	CE EQUIPMENT DTS)-A 2			
DOWNHO	DLE EQUIPMENT			
ECH-KC 9343	CTEM 33.98 34.25 ma Ray 33.06 33.34			

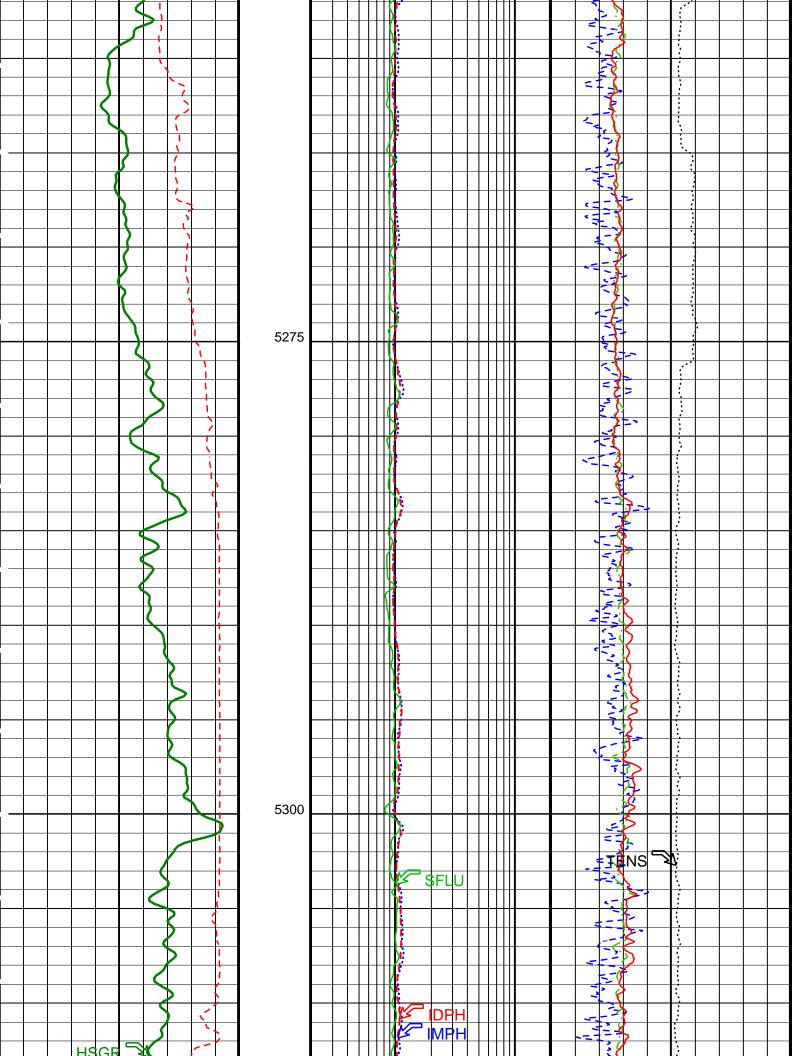


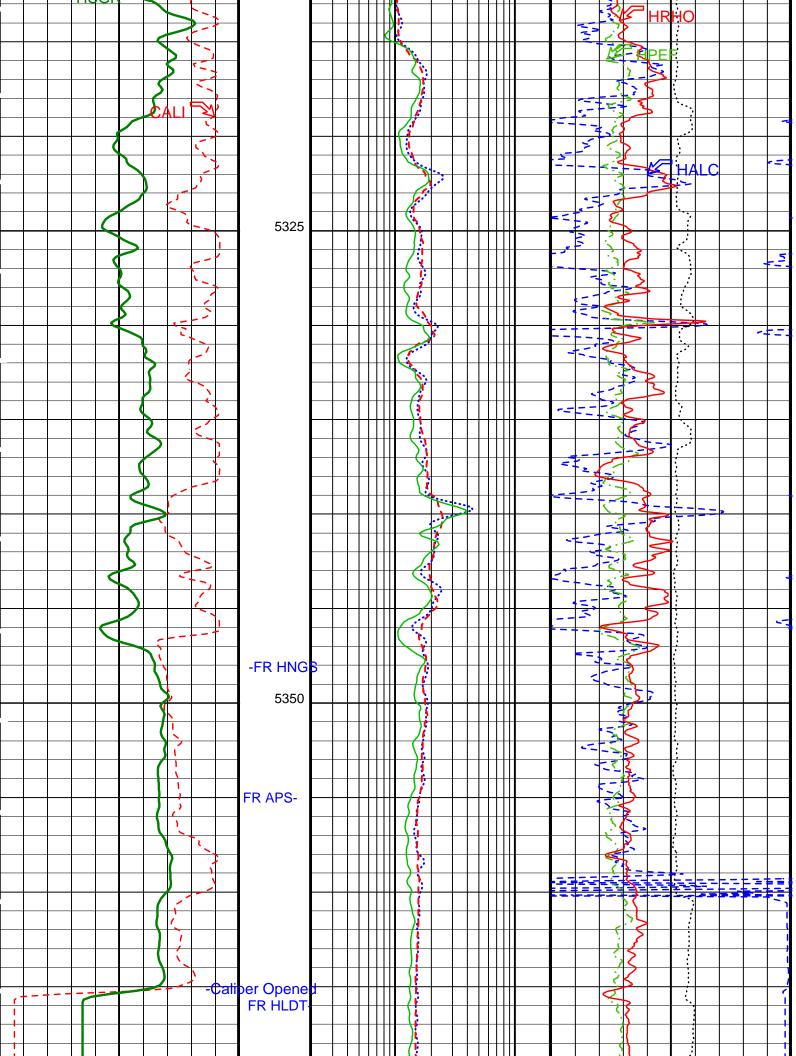


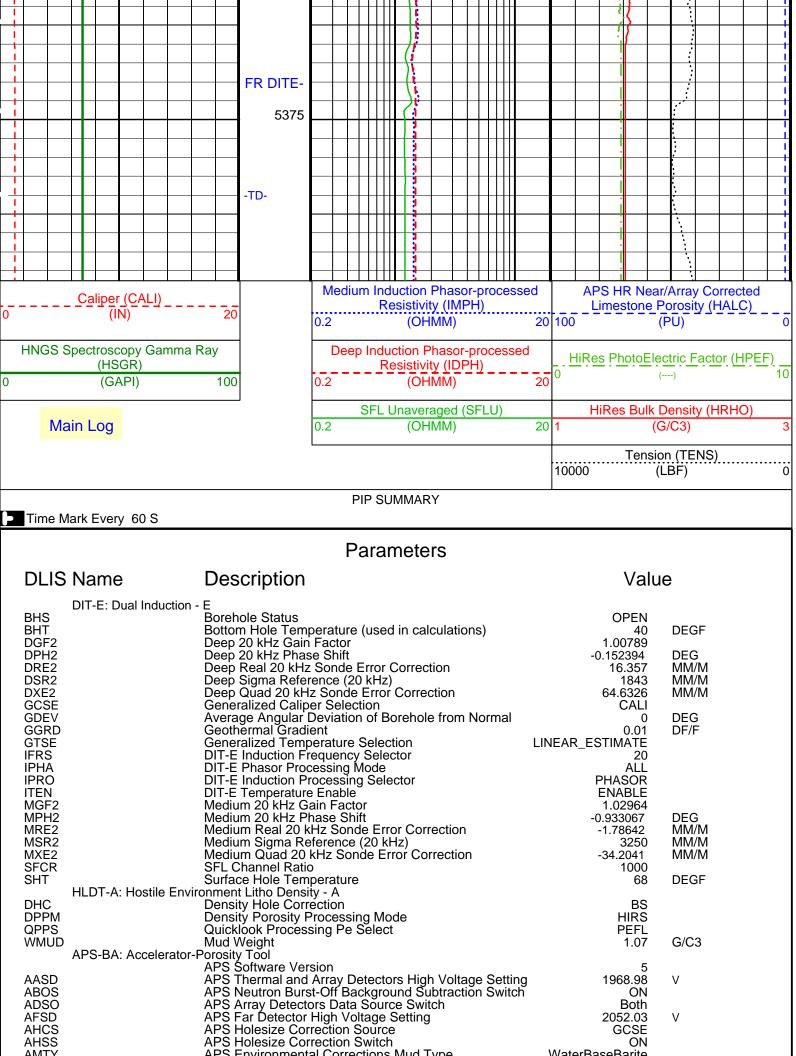






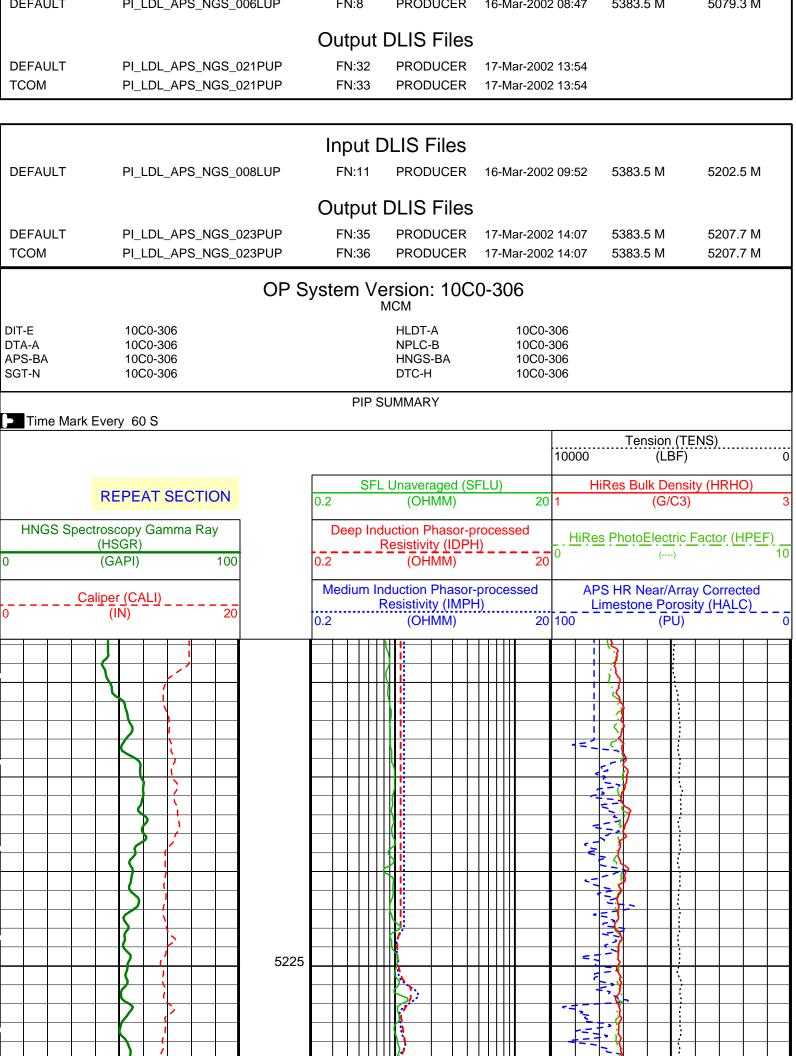


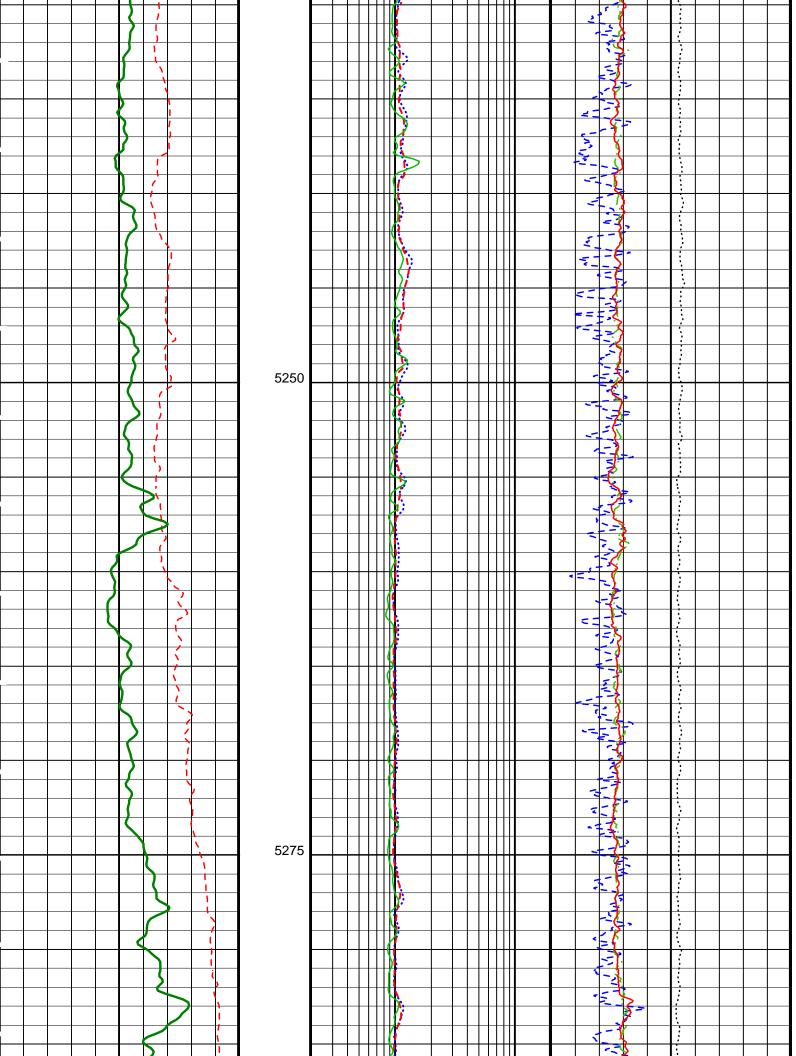


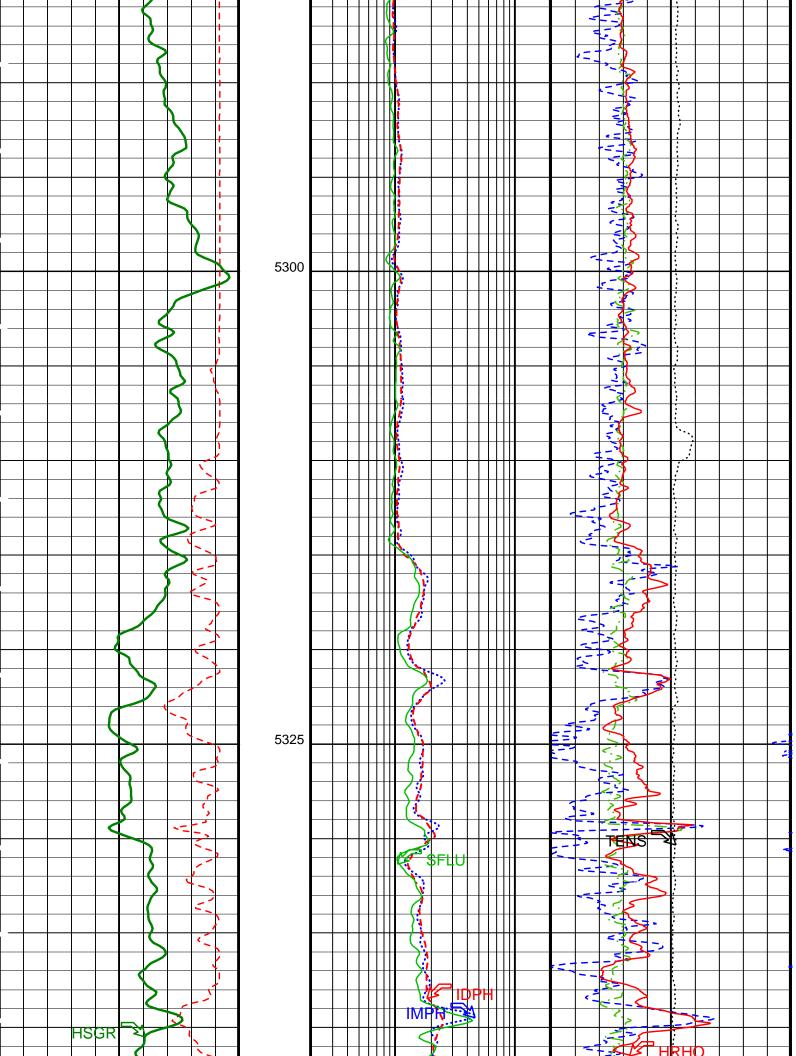


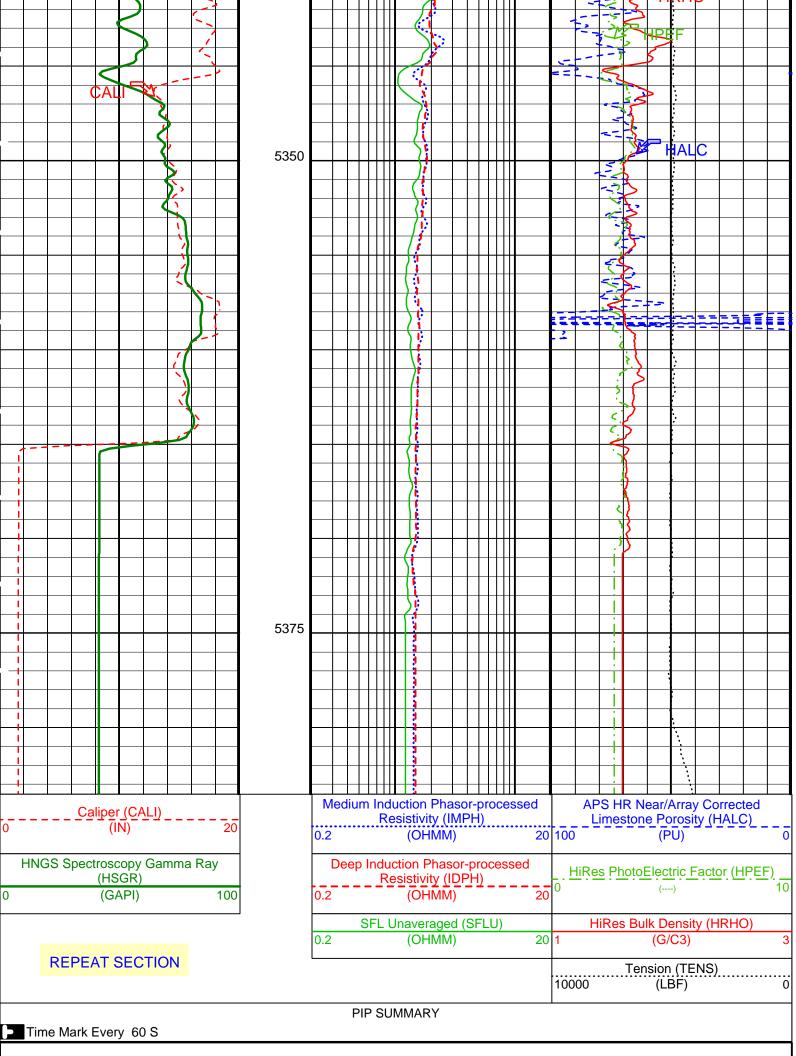
ANSD	APS Near Detector High Vo APS Standoff Correction S	nons mad Type	1748.3	V
ASOS	APS Standoff Correction S	witch	ON	V
ATSS	APS Temperature-Pressure	-Salinity Correction Switch	n OFF	
BHS BHT	Borehole Status Bottom Hole Temperature	(used in calculations)	OPEN 40	DEGF
DPPM	Density Porosity Processin	g Mode	HIRS	
FSAL GCSE	Formation Salinity Generalized Caliper Select	ion	-50000 CALI	PPM
GDEV	Average Angular Deviation	of Borehole from Normal	CALI 0	DEG
GGRD	Average Angular Deviation Geothermal Gradient		0.01	DF/F
GTSE NARC	Generalized Temperature S APS Near/Array Calibration	Selection	LINEAR_ESTIMATE	
NFRC	APS Near/Array Calibration APS Near/Far Calibration F	Ratio	0.902243	
SHT	Surface Hole Temperature		68	DEGF
BAR1	HNGS-BA: Hostile Natural Gamma Ray Sonde HNGS Detector 1 Barite Co	netant	1	
BAR2	HNGS Detector 2 Barite Co	onstant	1	
BHK	HNGS Borehole Potassium	Correction Concentration		
BHS BHT	Borehole Status Bottom Hole Temperature	(used in calculations)	OPEN 40	DEGF
CSD1	Inner Casing Outer Diamet	er	0	IN
CSD2	Outer Casing Outer Diame Inner Casing Weight	er	0	IN
CSW1 CSW2	Inner Casing Weight Outer Casing Weight		0	LB/F LB/F
DBCC	HNGS Barite Constant Cor	rection Flag	NONE	LD/I
GCSE	Generalized Caliper Select	ion	CALI	
GDEV GGRD	Average Angular Deviation Geothermal Gradient	of Borehole from Normal	0 0.01	DEG DF/F
GTSE	Generalized Temperature S	Selection	LINEAR ESTIMATE	DI /I
H1P	HNGS Detector 1 Allow/Dis	sallow In Processing	ALLOW	
H2P HABK	Generalized Temperature S HNGS Detector 1 Allow/Dis HNGS Detector 2 Allow/Dis HNGS Borehole Potassium HNGS Alpha Filter Length	sallow in Processing	ALLOW	
HALF	HNGS Alpha Filter Length	Rulling Average	60	IN
HCRB	HNGS Apply Borehole Pot	assium Correction	NONE	
HMWM HNPE	Mud Weighting Material		NATU YES	
S1BI	HNGS Processing Enable HNGS Detector 1 Calibration	on Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration	on Bismuth Count Rate	1.3	CPS
SGRC SHT	HNGS Standard Gamma-R	ay Correction Flag	YES	DEGF
TPOS	Surface Hole Temperature Tool Position		68 ECCE	DEGF
VBA1	HNGS Detector 1 Variable	Barite Factor Running Ave	erage 0.973008	
VBA2	HNGS Detector 2 Variable SGT-N: Scintillation Gamma-Ray - N	Barite Factor Running Ave	erage 0.974631	
BHS	Borehole Status		OPEN	
BHT	Bottom Hole Temperature	(used in calculations)	40	DEGF
DPPM GCSE	Density Porosity Processin Generalized Caliper Select	g Mode	HIRS CALI	
GDEV	Average Angular Deviation	of Borehole from Normal	OALI 0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GTSE SHT	Generalized Temperature Surface Hole Temperature	Selection	LINEAR_ESTIMATE 68	DEGF
3111	HOLEV: Integrated Hole/Cement Volume		00	DLGI
BHS	Borehole Status		OPEN	
BHT GCSE	Bottom Hole Temperature Generalized Caliper Select	(used in calculations)	40 CALI	DEGF
GDEV	Average Angular Deviation		OALI 0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GTSE SHT	Generalized Temperature Surface Hole Temperature	selection	LINEAR_ESTIMATE 68	DEGF
	System and Miscellaneous		00	יוסוי.
BS	Bit Size		11.438	IN
BSAL CSIZ	Borehole Salinity Current Casing Size		-50000.00 0.000	PPM IN
CWEI	Casing Weight		0.00	LB/F
DFD	Drilling Fluid Density		1.07	G/C3
DO PP	Depth Offset for Playback Playback Processing		0.0 RECOMPUTE	М
TD	Total Depth		17647.6	FT
Format: HL	DT_HR_TCOM Vertical Scale: 1:200		Graphics File Created: 1	7-Mar-2002 13:54
	OP System	Version: 10C0-30	6	
DIT-E	10C0-306	HLDT-A	10C0-306	
DTA-A	10C0-306		10C0-306	
APS-BA	10C0-306	HNGS-BA	10C0-306	
SGT-N	10C0-306	DTC-H	10C0-306	

Input DLIS Files









Parameters

DLIS Name	Description	Valu	ie
DIT-E: Dual Induction BHS	n - E Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGF
DGF2 DPH2	Deep 20 kHz Gain Factor Deep 20 kHz Phase Shift	1.00789 -0.152394	DEG
DRE2 DSR2	Deep Real 20 kHz Sonde Error Correction Deep Sigma Reference (20 kHz)	16.357 1843	MM/M MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	64.6326	MM/M
GCSE GDEV	Generalized Caliper Selection Average Angular Deviation of Borehole from Normal	CALI 0	DEG
GGRD GTSE	Geothermal Gradient Generalized Temperature Selection	0.01 LINEAR ESTIMATE	DF/F
IFRS	DIT-E Induction Frequency Selector	_ 20	
IPHA IPRO	DIT-E Phasor Processing Mode DIT-E Induction Processing Selector	ALL PHASOR	
ITEN MGF2	DIT-E Temperature Enable Medium 20 kHz Gain Factor	ENABLE 1.02964	
MPH2	Medium 20 kHz Phase Shift	-0.933067	DEG
MRE2 MSR2	Medium Real 20 kHz Sonde Error Correction Medium Sigma Reference (20 kHz)	-1.78642 3250	MM/M MM/M
MXE2 SFCR	Medium Quad 20 kHz Sonde Error Correction SFL Channel Ratio	-34.2041 1000	MM/M
SHT	Surface Hole Temperature	68	DEGF
DHC	rironment Litho Density - A Density Hole Correction	BS	
DPPM QPPS	Density Porosity Processing Mode Quicklook Processing Pe Select	HIRS PEFL	
WMUD	Mud Weight	1.07	G/C3
APS-BA: Accelerator	APS Šoftware Version	5	
AASD ABOS	APS Thermal and Array Detectors High Voltage Setting APS Neutron Burst-Off Background Subtraction Switch	1968.98 ON	V
ADSO AFSD	APS Array Detectors Data Source Switch APS Far Detector High Voltage Setting	Both 2052.03	V
AHCS	APS Holesize Correction Source	GCSE	V
AHSS AMTY	APS Holesize Correction Switch APS Environmental Corrections Mud Type	ON WaterBaseBarite	
ANSD ASOS	APS Near Detector High Voltage Setting APS Standoff Correction Switch	1748.3 ON	V
ATSS	APS Temperature-Pressure-Salinity Correction Switch	OFF	
BHS BHT	Borehole Status Bottom Hole Temperature (used in calculations)	OPEN 40	DEGF
DPPM FSAL	Density Porosity Processing Mode Formation Salinity	HIRS -50000	PPM
GCSE	Generalized Caliper Selection	CALI	
GDEV GGRD	Average Angular Deviation of Borehole from Normal Geothermal Gradient	0 0.01	DEG DF/F
GTSE NARC	Generalized Temperature Selection APS Near/Array Calibration Ratio	LINEAR_ESTIMATE 1.0631	
NFRC SHT	APS Near/Far Ćalibration Ratio Surface Hole Temperature	0.902243 68	DEGF
HNGS-BA: Hostile N	atural Gamma Ray Sonde		DEGI
BAR1 BAR2	HNGS Detector 1 Barite Constant HNGS Detector 2 Barite Constant	1 1	
BHK BHS	HNGS Borehole Potassium Correction Concentration Borehole Status	0 OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGF
CSD1 CSD2	Inner Casing Outer Diameter Outer Casing Outer Diameter	0	IN IN
CSW1 CSW2	Inner Casing Weight Outer Casing Weight	0	LB/F LB/F
DBCC GCSE	HNGS Barite Constant Correction Flag Generalized Caliper Selection	NONÉ CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD GTSE	Geothermal Gradient Generalized Temperature Selection	0.01 LINEAR_ESTIMATE	DF/F
H1P H2P	HNGS Detector 1 Allow/Disallow In Processing HNGS Detector 2 Allow/Disallow In Processing	ALLOW ALLOW	
HABK	HNGS Borehole Potassium Running Average	0.000145375	INI
HALF HCRB	HNGS Alpha Filter Length HNGS Apply Borehole Potassium Correction	60 NONE	IN
HMWM HNPE	Mud Weighting Material HNGS Processing Enable	NATU YES	
S1BI S2BI	HNGS Processing Enable HNGS Detector 1 Calibration Bismuth Count Rate HNGS Detector 2 Calibration Bismuth Count Rate	1.3 1.3	CPS CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT TPOS	Surface Hole Temperature Tool Position	68 ECCE	DEGF
VBA1 VBA2	HNGS Detector 1 Variable Barite Factor Running Avera HNGS Detector 2 Variable Barite Factor Running Avera	ge 0.973008	
	35 Bototo E valiable Balito I dotol Nationing Avera	3- 0.01 7001	

BHS BHT DPPM GCSE GDEV GGRD GTSE SHT BHS BHT GCSE GDEV GGRD GTSE SHT BS BSAL CSIZ CWEI		Bit Size Borehole Salinity Current Casing S Casing Weight	Processing Notes that the person of the pers	Mode Borehole from Nection ed in calculation Borehole from N	lormal	LINEAR_ES	68 OPEN 40 CALI 0 0.01 STIMATE 68 11.438 50000.00 0.000 0.000	DEGF DEGF DEGF DEGF DEGF IN PPM IN LB/F	
DFD DO PP		Drilling Fluid Der Depth Offset for Playback Proces	Playback			REC	1.07 0.0 OMPUTE	G/C3 M	
TD	DT_HR_TCOM	Total Depth Vertical Scale: 1:200			(17647.6	FT 7-Mar-2002 1	4:07
				ersion: 10C		•			
		Oi C		MCM	0-300				
DIT-E DTA-A APS-BA SGT-N	10C0-30 10C0-30 10C0-30 10C0-30	06 06		HLDT-A NPLC-B HNGS-BA DTC-H	10 10	0C0-306 0C0-306 0C0-306 0C0-306			
			Input [DLIS Files					
DEFAULT	PI_LDL_	_APS_NGS_008LUP	FN:11	PRODUCER	16-Mar	-2002 09:52	5383.5 N	1 5202.	.5 M
			Output	DLIS Files					
DEFAULT TCOM		_APS_NGS_023PUP _APS_NGS_023PUP	FN:35 FN:36	PRODUCER PRODUCER	17-Mar	-2002 14:07 -2002 14:07			
Comp Well:		ont Doherty Leg 201, Site	1230A P	RI I-44			Sch	lumber	ger
Field: Rig: Ocea	Peru JOII	u Margin DES Resolution		NO-4A					
	with	Triple Combo Phasor Inductio Ima Ray	n						