Schlumberger

Company: Integrated Ocean Drilling Program

Well: IODP Exp 308 Hole U1322A
Field: Mississippi Canyon Block 855
Rig: Joides Resolution State: Louisiana

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Field: Mississippi Canyon Block 855
Location: Ursa Basin
Well: IODP Exp 308 Hole U1322A
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GeoVISION Resistivity
1 : 200 Measured Depth
Recorded Mode Log

Location		Elevation	
Total depth:	1568 m	K.B.	Top Drive
Spud date:	15-Jun-2005	G.L.	-1319.5 m
Runs:	2 To 2	D.F.	10.5 m
Permanent datum:	Mean Sea Level	Elev.:	0 m
Log measured from:	Drill Floor	10.5 m	above Perm. datum
Depth reference:	Driller's Depth		

Service Order no.	NAD 27	Longitude	Latitude
40012055	UTM Zone 15N	W89.02520	N28.09938

Depth logged:	1330 m To 1567 m	Mag decl:	0.14 deg.
Date logged:	15-Jun-05 To 15-Jun-05	Mag dip:	58.30 deg.

Other services:

Bore hole record			Casing record			
Hole size	from	to	Size	Density	from	to
9.875 in.	1330 m	1568 m				

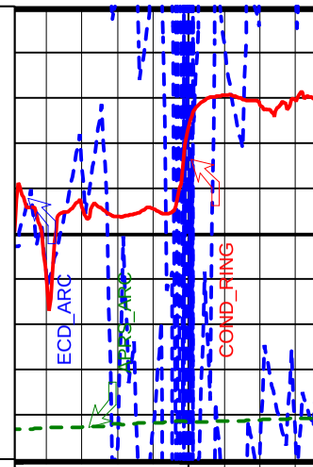
Mud record			Borehole deviation record			
Type	from	to	Min	Max	from	to
Seawater	1330 m	1568 m	0.14 deg.	1.61 deg.	1330 m	1568 m

Surface equipment		Software record			
Unit	TWIS	IDEAL Wis	10_0C_04.1		
Depth system	Geolograph	SPM	10_1C_05		
		LWD	See Remarks		
		MWD	8.0c00		

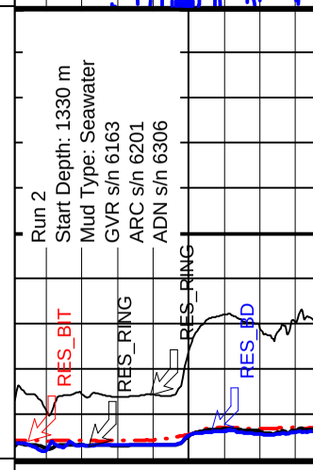
IDEAL Version: ID10_0C_04
IDF

Format: GEOVIS_RES_1MD Vertical Scale: 1:200 Graphics File Created: 01-Jul-2005 00:46

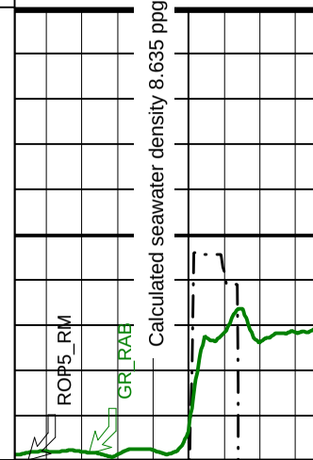
Deep Button Resistivity (RES_BD) (OHMM) 0 10
Ring Conductivity (COND_RING) (MMHO) 8000 0
Annulus Pressure (APRS_ARC) (PSI) 1900 2400
Equivalent Circulating Density (ECD_ARC) (LB/G) 6 14

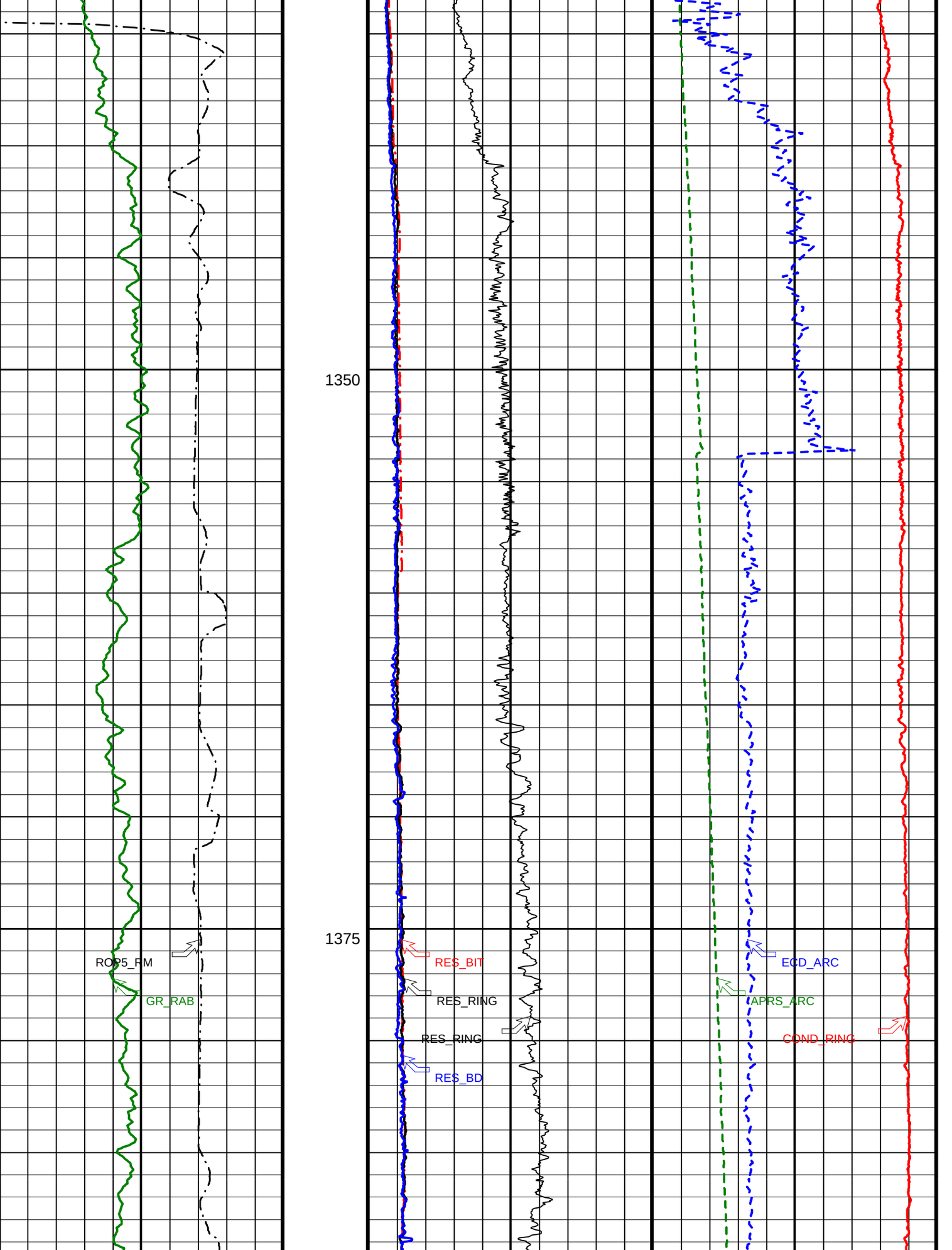


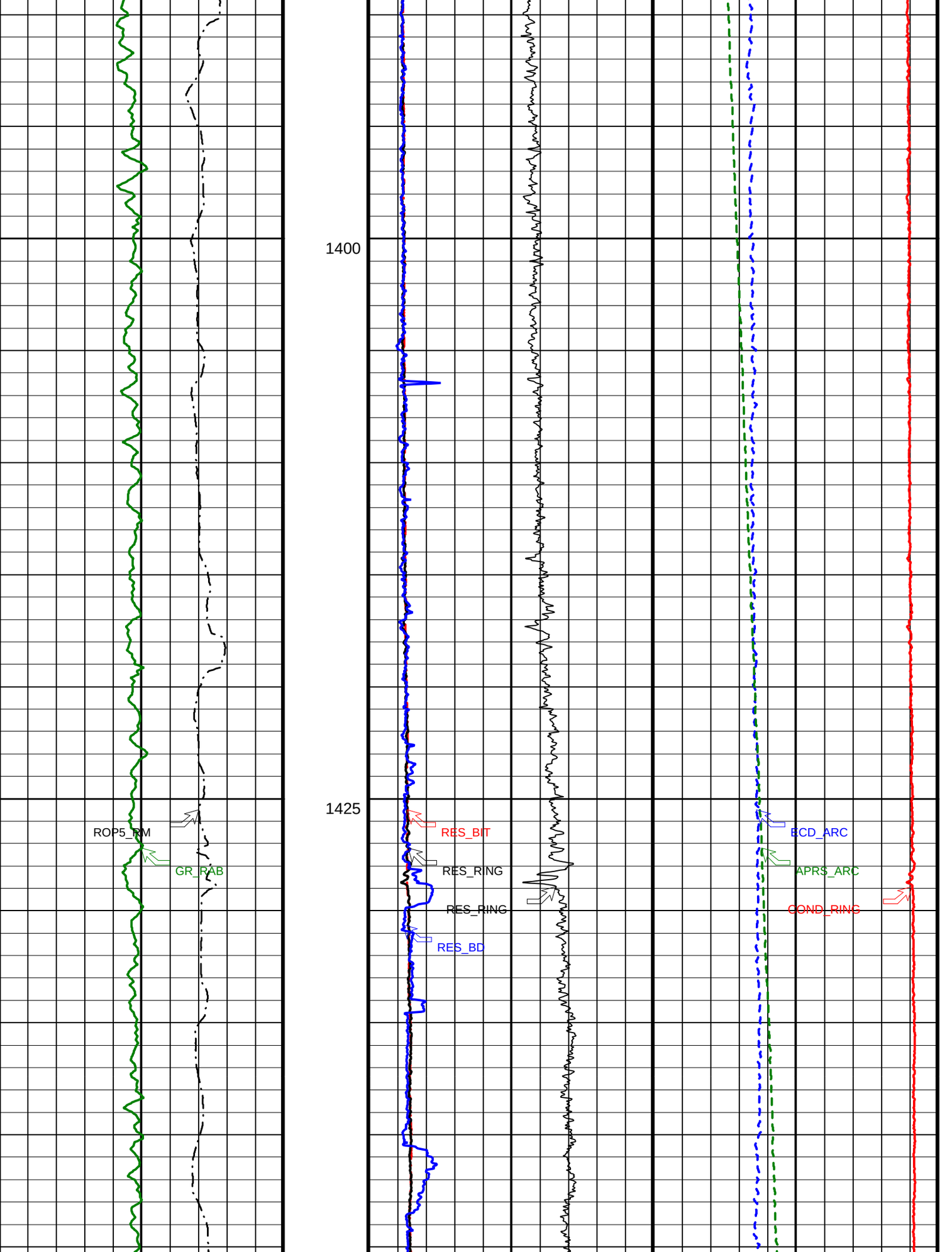
Amplified Ring Resistivity (RES_RING) (OHMM) 0 2
Ring Resistivity (RES_RING) (OHMM) 0 10
Bit Resistivity (RES_BIT) (OHMM) 0 10

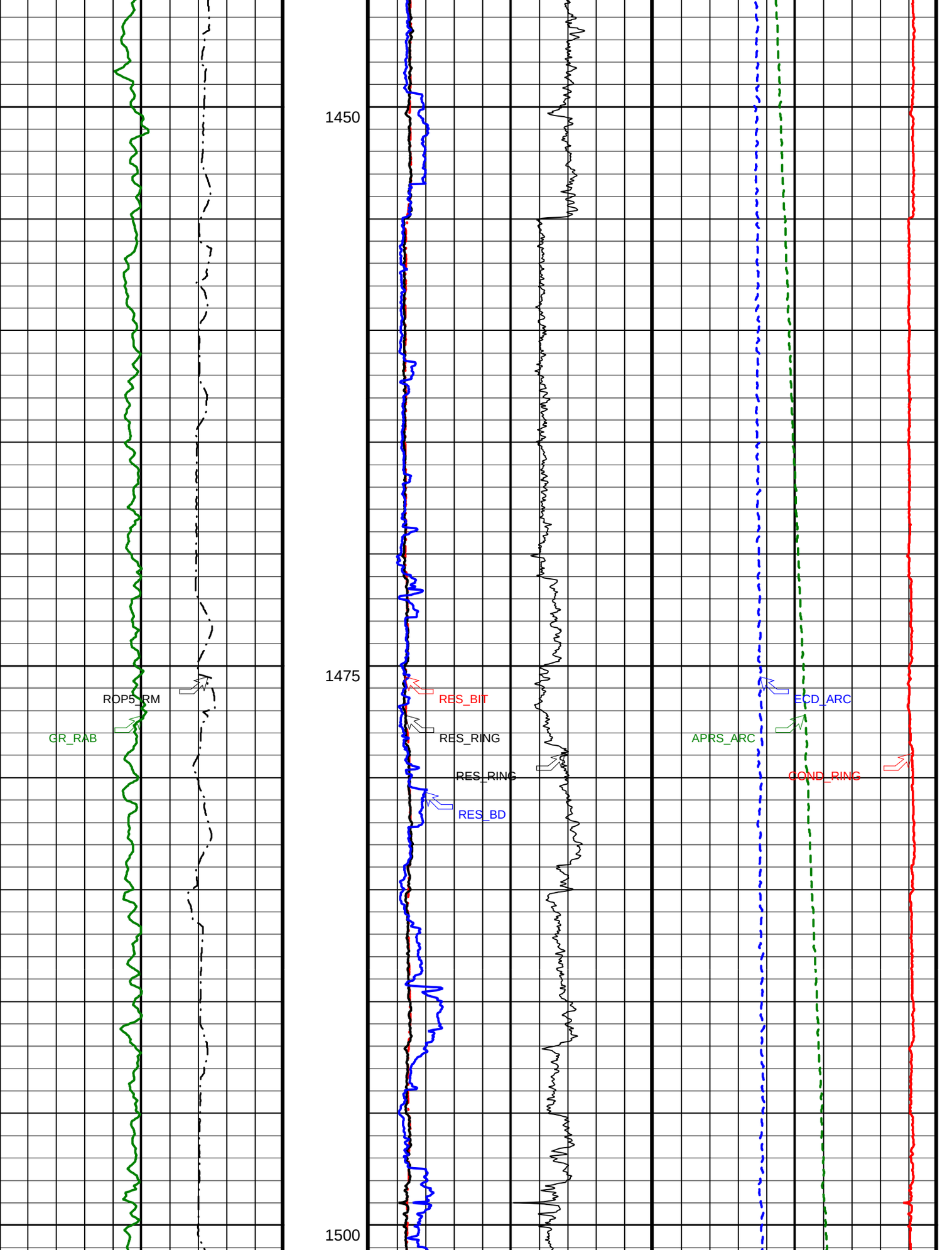


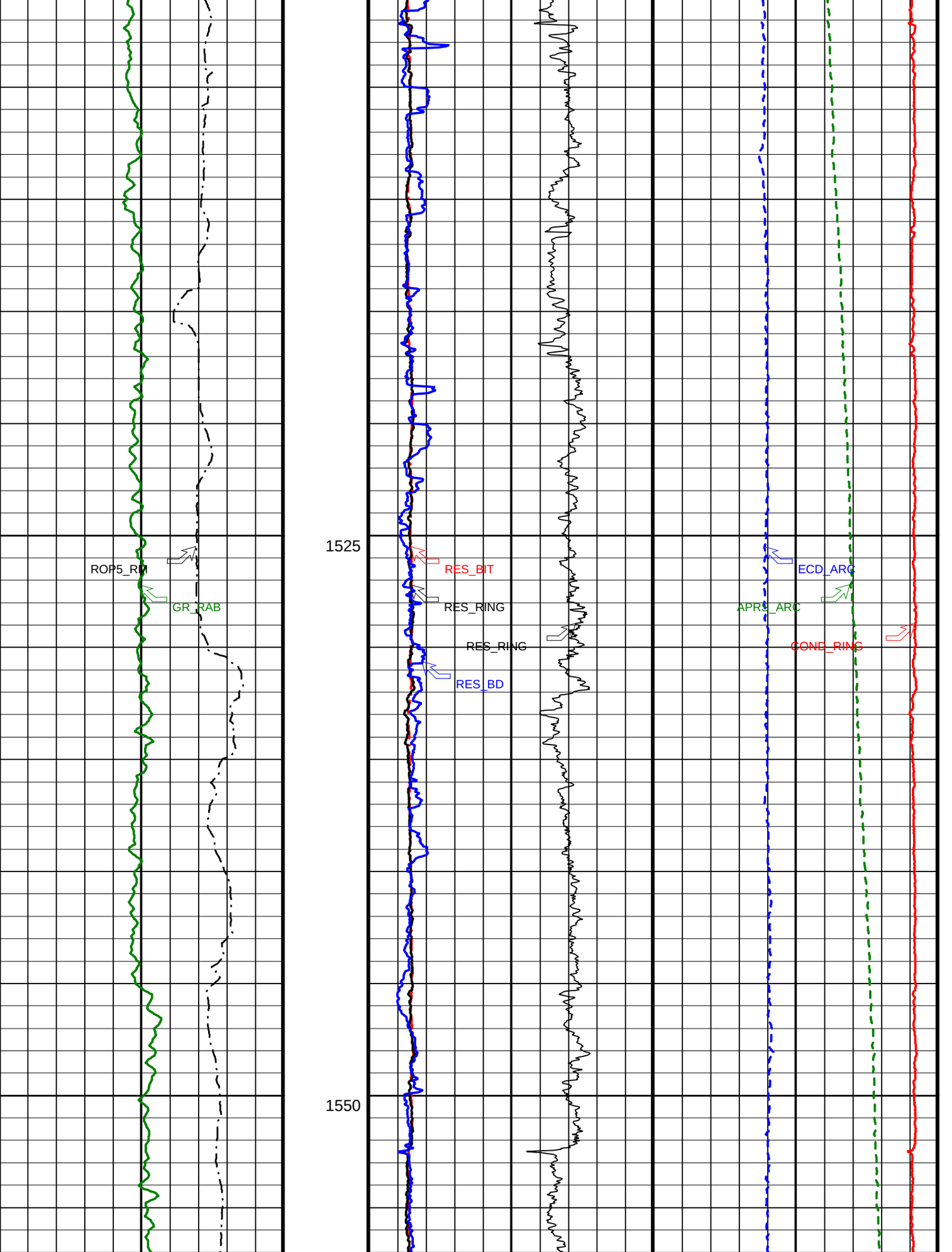
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR) 100 0
RAB Gamma Ray (GR_RAB) (GAPI) 0 150

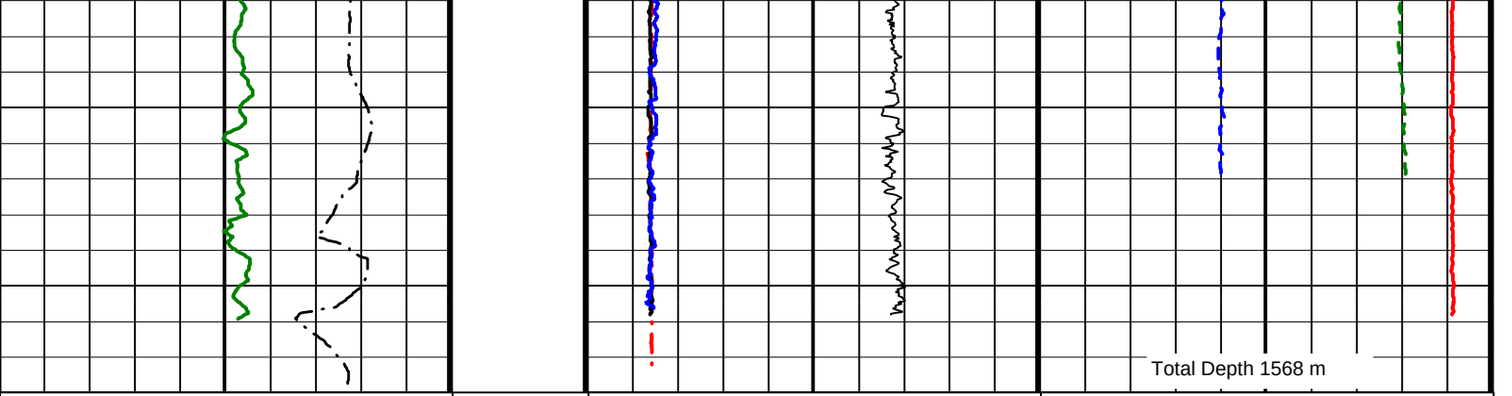



1350
1375
ROP5_RM
GR_RAB
RES_BIT
RES_RING
RES_RING
RES_BD
ECD_ARC
APRS_ARC
COND_RING


1400
1425
ROP5_RM
GR_RAB
RES_BIT
RES_RING
RES_RING
RES_BD
ECD_ARC
APRS_ARC
COND_RING


1450
1475
1500
ROP5_RM
GR_RAB
RES_BIT
RES_RING
RES_RING
RES_BD
ECD_ARC
APRS_ARC
COND_RING


1525
1550
ROP5_RM
GR_RAB
RES_BIT
RES_RING
RES_RING
RES_BD
ECD_ARC
APRS_ARC
COND_RING



RAB Gamma Ray (GR_RAB)
0 (GAPI) 150

Rate of Penetration, Averaged over Last 5ft (ROP5_RM)
100 (M/HR) 0

Bit Resistivity (RES_BIT)
0 (OHMM) 10

Ring Resistivity (RES_RING)
0 (OHMM) 10

Amplified Ring Resistivity (RES_RING)
0 (OHMM) 2

Deep Button Resistivity (RES_BD)
0 (OHMM) 10

Equivalent Circulating Density (ECD_ARC)
6 (LB/G) 14

Annulus Pressure (APRS_ARC)
1900 (PSI) 2400

Ring Conductivity (COND_RING)
8000 (MMHO) 0

IDEAL Version: ID10_0C_04
IDF

SCHLUMBERGER

Survey report 15-Jun-2005 13:42:43 Page 1 of 2

Client.....: Integrated Ocean Drilling Program
Field.....: Mississippi Canyon Block 855

Well.....: IODP Exp 308 Hole U1322A Spud date.....: 15-Jun-05
Site.....: Ursa Basin Last survey date.....: 15-Jun-05
Engineer.....: Hoong, K. Total accepted surveys...: 7
MD of first survey.....: 1330.00 m
Rig:.....: Joides Resolution MD of last survey.....: 1568.00 m
State:.....: Louisiana

----- Survey calculation methods----------
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor

----- Geomagnetic data ----------
Magnetic model.....: BGGM version 2004
Magnetic date.....: 14-Jun-2005
Magnetic field strength..: 949.33 HCNT
Magnetic dec (+E/W-).....: 0.14 degrees
Magnetic dip.....: 58.30 degrees

----- Depth reference ----------
Permanent datum.....: Mean Sea Level
Depth reference.....: Driller's Depth
GL above permanent.....: -1319.50 m
KB above permanent.....: Top Drive
DF above permanent.....: 10.50 m

----- MWD survey Reference Criteria ---------
Reference G.....: 999.17 mGal
Reference H.....: 949.33 HCNT
Reference Dip.....: 58.30 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Vertical section origin----------
Latitude (+N/S-).....: 0.00 m
Departure (+E/W-).....: 0.00 m

----- Platform reference point----------
Latitude (+N/S-).....: 0.00 m
Departure (+E/W-).....: 0.00 m
Azimuth from Vsect Origin to target: 0.00 degrees

----- Corrections ----------
Magnetic dec (+E/W-).....: 0.14 degrees
Grid convergence (+E/W-).: -0.95 degrees
Total az corr (+E/W-)....: 1.09 degrees
(Total az corr = magnetic dec - grid conv)
Survey Correction Type ...:

----- Coordinate System----------
Geodetic Datum.....: NAD 27
Projection Identification: UTM Zone 16 N

I=Sag Corrected Inclination
M=Schlumberger Magnetic Correction
S=Shell Magnetic Correction
F=Failed Axis Correction
R=Magnetic Resonance Tool Correction
D=Dmag Magnetic Correction

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (deg)	At Azim (deg/ 10m)	DLS type	Srvy Tool Corr (deg)
1	1330.00	0.00	0.00	0.00	1330.00	0.00	0.00	0.00	0.00	0.00	TIP	None
2	1398.80	1.61	353.88	68.80	1398.79	0.96	0.96	-0.10	0.97	353.88	0.23	MWD None
3	1485.70	0.35	340.64	86.90	1485.68	2.43	2.43	-0.32	2.45	352.46	0.15	MWD None
4	1495.40	0.49	341.03	9.70	1495.38	2.49	2.49	-0.34	2.52	352.13	0.14	MWD None
5	1524.50	0.33	323.79	29.10	1524.48	2.68	2.68	-0.43	2.71	350.78	0.07	MWD None
6	1553.20	0.14	274.52	28.70	1553.18	2.75	2.75	-0.52	2.80	349.32	0.09	MWD None
7	1568.00	0.14	274.52	14.80	1567.98	2.75	2.75	-0.55	2.81	348.60	0.00	Proj to TD

Company: Integrated Ocean Drilling Program

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Well: IODP Exp 308 Hole U1322A

Field: Mississippi Canyon Block 855

Rig: Joides Resolution

State: Louisiana

GeoVISION Resistivity
1 : 200 Measured Depth
Recorded Mode Log