

# Schlumberger

Company: Integrated Ocean Drilling Program

Well: IODP Exp 308 Hole U1321A  
 Field: East Breaks Block 691  
 Rig: Joides Resolution State: Texas

## GeoVISION Resistivity 1 : 200 Measured Depth Recorded Mode Log

Total depth: 1602 m		K.B. Top Drive	
Spud date: 13-Jun-2005		G.L. -1451.5 m	
Runs: 1 To 1		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. 40012055	NAD 27 UTM Zone 15N	Longitude W94.39892	Latitude N27.27568

Rig: Joides Resolution  
 Field: East Breaks Block 691  
 Location: Brazos Trinity Basin  
 Well: IODP Exp 308 Hole U1321A  
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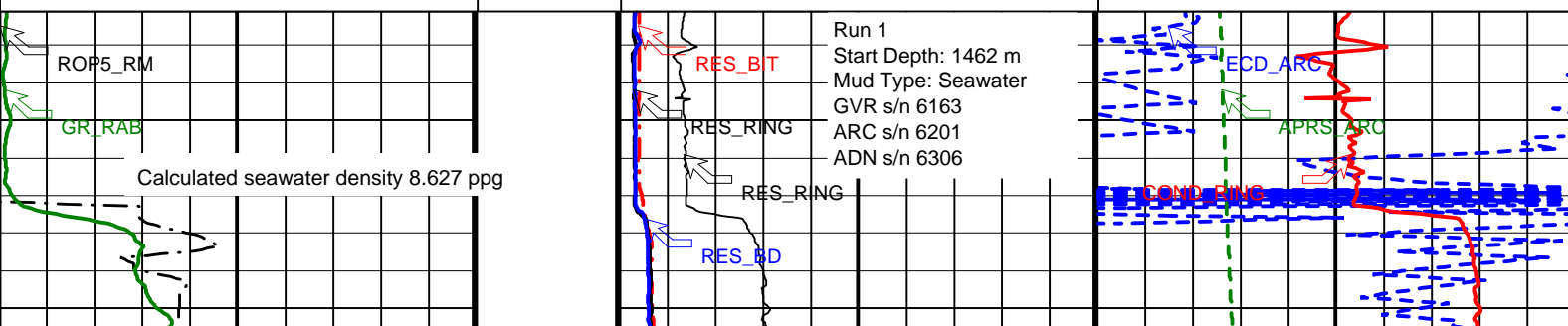
Depth logged: 1462 m	To 1601 m	Mag decl: 3.52 deg.	Other services:
Date logged: 13-Jun-05	To 13-Jun-05	Mag dip: 56.98 deg.	
Bore hole record		Casing record	
Hole size	from 1462 m to 1602 m	Size	Density
9.875 in.			
Type	Mud record	Borehole deviation record	
Seawater	from 1462 m to 1602 m	Min 1.08 deg.	Max 1.82 deg.
		from 1462 m	to 1602 m

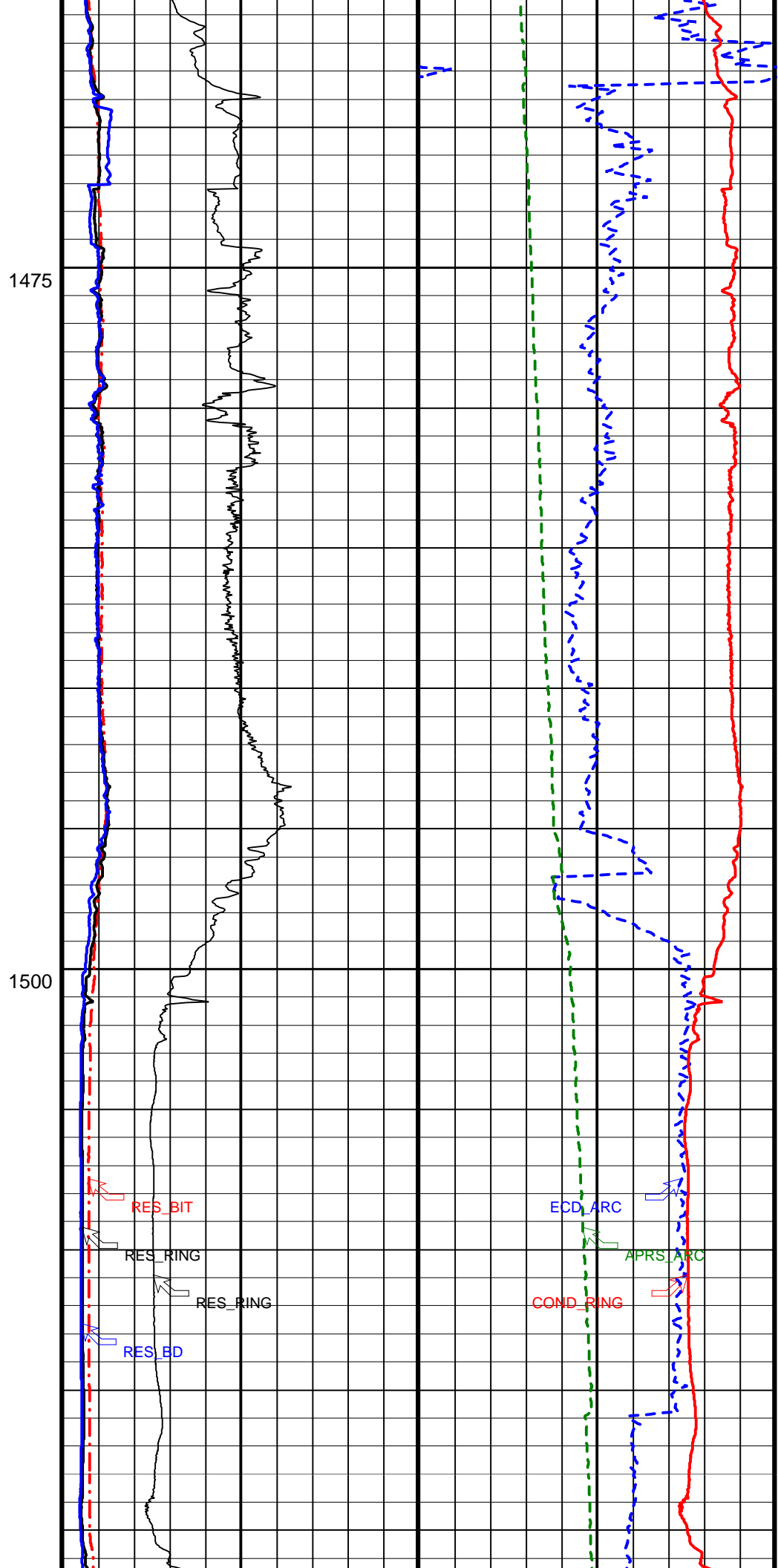
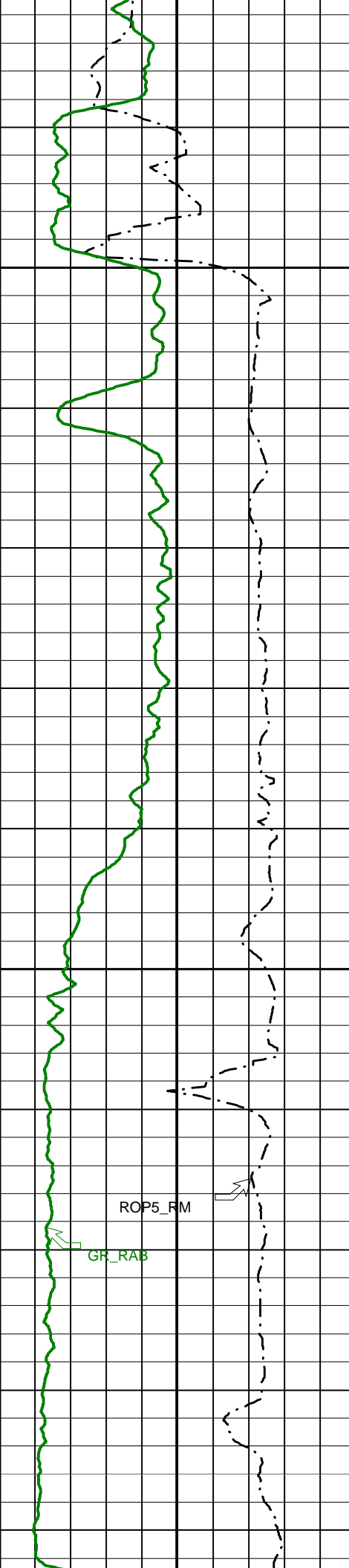
Surface equipment		Software record	
Unit	TWIS	IDEAL Wis	10_OC_04.1
Depth system	Geolograph	SPM	10_1C_05
		LWD	See Remarks
		MWD	8.0c00

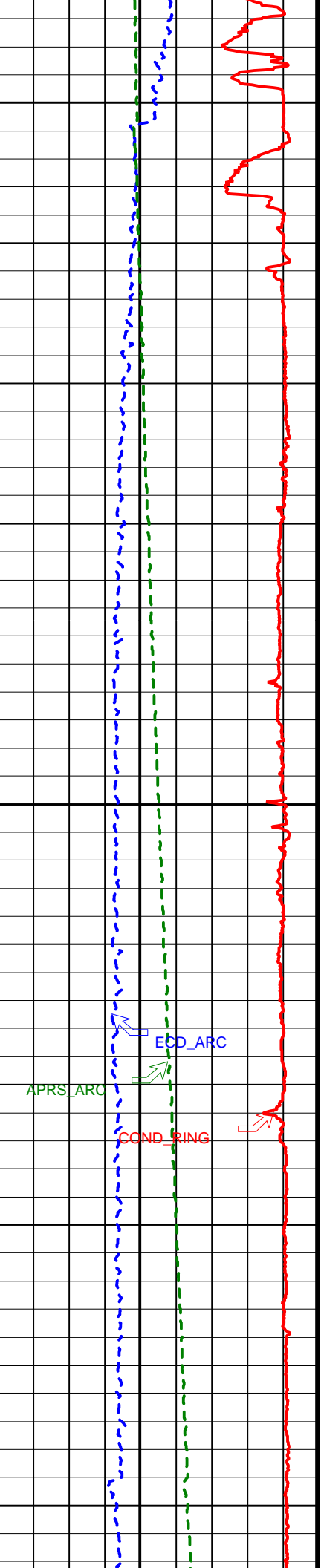
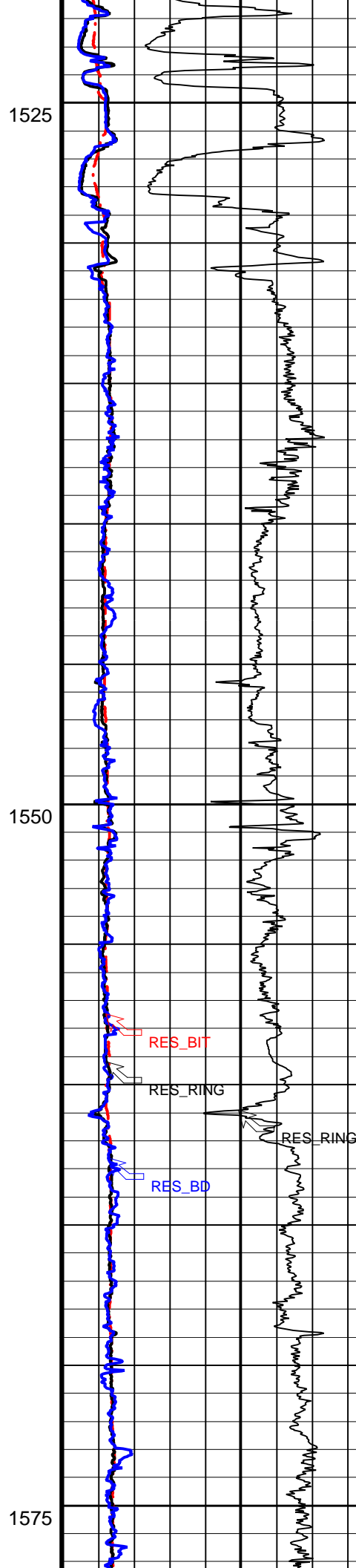
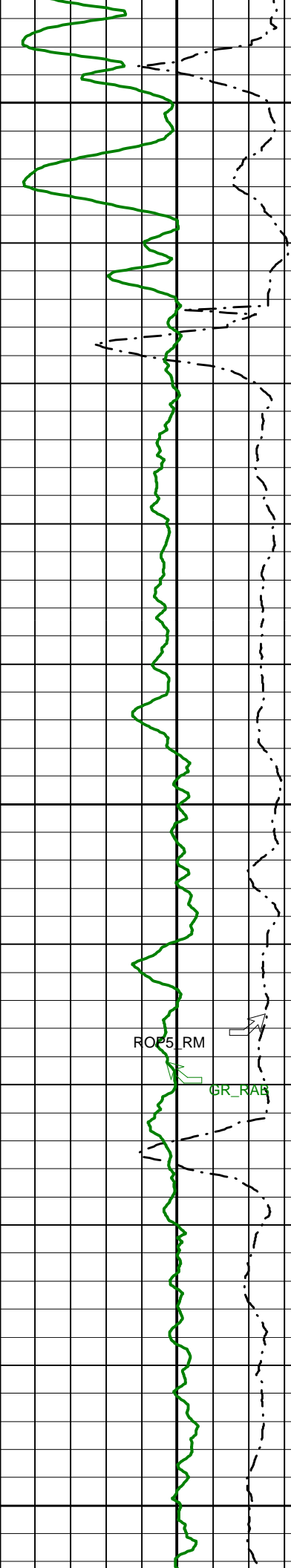
IDEAL Version: ID10\_0C\_04  
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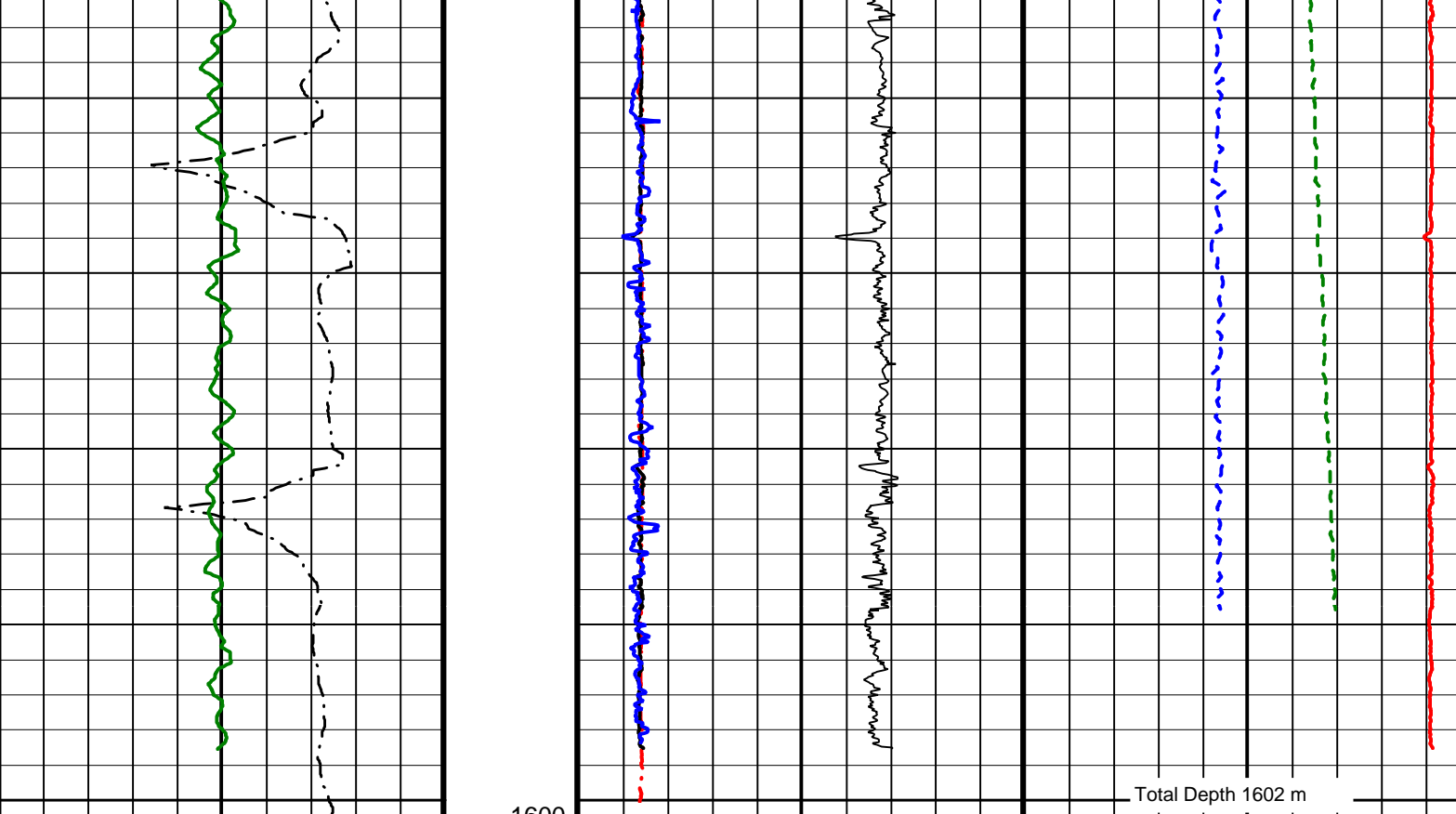
Format: GEOVIS\_RES\_1MD Vertical Scale: 1:200 Graphics File Created: 01-Jul-2005 00:38

Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR)	0 to 100
RAB Gamma Ray (GR_RAB) (GAPI)	0 to 150
Deep Button Resistivity (RES_BD) (OHMM)	0 to 10
Amplified Ring Resistivity (RES_RING) (OHMM)	0 to 2
Ring Resistivity (RES_RING) (OHMM)	0 to 10
Bit Resistivity (RES_BIT) (OHMM)	0 to 10
Ring Conductivity (COND_RING) (MMHO)	0 to 8000
Annulus Pressure (APRS_ARC) (PSI)	2000 to 2500
Equivalent Circulating Density (ECD_ARC) (LB/G)	6 to 14









<b>RAB Gamma Ray (GR_RAB)</b> (GAPI) 0 150	<b>Bit Resistivity (RES_BIT)</b> (OHMM) 0 10	<b>Equivalent Circulating Density (ECD_ARC)</b> (LB/G) 6 14
<b>Rate of Penetration, Averaged over Last 5ft (ROP5_RM)</b> (M/HR) 100 0	<b>Ring Resistivity (RES_RING)</b> (OHMM) 0 10	<b>Annulus Pressure (APRS_ARC)</b> (PSI) 2000 2500
	<b>Amplified Ring Resistivity (RES_RING)</b> (OHMM) 0 2	<b>Ring Conductivity (COND_RING)</b> (MMHO) 8000 0
	<b>Deep Button Resistivity (RES_BD)</b> (OHMM) 0 10	

IDEAL Version: ID10\_0C\_04  
IDF

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Survey report 28-Jun-2005 22:42:37 Page 1 of 2

Client.....: Integrated Ocean Drilling Program  
Field.....: East Breaks Block 691  
  
Well.....: IODP Exp 308 Hole U1321A Spud date.....: 13-Jun-05  
Site.....: Brazos Trinity Basin Last survey date.....: 13-Jun-05  
Engineer.....: Hoong, K. Total accepted surveys...: 4  
MD of first survey.....: 1462.00 m  
Rig.....: Joides Resolution MD of last survey.....: 1602.00 m  
State.....: Texas

----- Survey calculation methods-----  
Method for positions.....: Minimum curvature  
Method for DLS.....: Mason & Taylor  
----- Depth reference -----  
Permanent datum.....: Mean Sea Level  
Depth reference.....: Drill Floor  
GL above permanent.....: -1451.50 m  
KB above permanent.....: 10.50 m  
DF above permanent.....: 10.50 m  
----- Vertical section origin-----

----- Geomagnetic data -----  
Magnetic model.....: BGGM version 2004  
Magnetic date.....: 13-Jun-2005  
Magnetic field strength...: 937.50 HCNT  
Magnetic dec (+E/W-).....: 3.52 degrees  
Magnetic dip.....: 56.98 degrees  
----- MWD survey Reference Criteria -----  
Reference G.....: 999.11 mGal  
Reference H.....: 937.50 HCNT  
Reference Dip.....: 56.98 degrees  
Tolerance of G.....: (+/-) 2.50 mGal

Latitude (+N/S-).....: 0.00 m Tolerance of H.....: (+/-) 6.00 HCNT  
Departure (+E/W-).....: 0.00 m Tolerance of Dip.....: (+/-) 0.45 degrees

----- Platform reference point----- ----- Corrections -----  
Latitude (+N/S-).....: 0.00 m Magnetic dec (+E/W-).....: 3.52 degrees  
Departure (+E/W-).....: 0.00 m Grid convergence (+E/W-)..: -0.64 degrees  
Total az corr (+E/W-).....: 4.16 degrees  
Azimuth from Vsect Origin to target: 0.00 degrees (Total az corr = magnetic dec - grid conv)  
Survey Correction Type ..:  
----- Coordinate System-----  
Geodetic Datum.....: NAD 27 I=Sag Corrected Inclination  
Projection Identification: UTM Zone 15 N M=Schlumberger Magnetic Correction  
S=Shell Magnetic Correction  
F=Failed Axis Correction  
R=Magnetic Resonance Tool Correction  
D=Dmag Magnetic Correction

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SCHLUMBERGER Survey Report

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Seq Measured Incl Azimuth Course TVD Vertical Displ Displ Total At DLS Srvy Tool
# depth angle angle length depth section +N/S- +E/W- displ Azim (deg/ tool Corr
- (m) (deg) (deg) (m) (m) (m) (m) (m) (deg) 10m) type (deg)
=====
1 1462.00 0.00 0.00 0.00 1462.00 0.00 0.00 0.00 0.00 0.00 0.00 TIP None
2 1534.00 1.82 193.82 72.00 1533.99 -1.11 -1.11 -0.27 1.14 193.82 0.25 MWD_M None
3 1585.00 1.08 189.64 51.00 1584.97 -2.37 -2.37 -0.55 2.43 192.99 0.15 MWD_M None
4 1602.00 1.08 189.64 17.00 1601.97 -2.69 -2.69 -0.60 2.75 192.60 0.00 Proj to TD
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Company: Integrated Ocean Drilling Program

**Schlumberger**

Well: IODP Exp 308 Hole U1321A

Field: East Breaks Block 691

Rig: Joides Resolution

State: Texas

GeoVISION Resistivity

1 : 200 Measured Depth

Recorded Mode Log