Company: **Eagle Bay Resources**

Well: **Northright−1** **Exploration**

Field: **VIC/P−41**

Rig: **Ocean Bounty** State: **Victoria**

Rig: Ocean Bounty
Field: VIC/P−41
Location: Gippsland Basin
Well: Northright1
Company: Eagle Bay Resources

Schlumberger

ARC Resistivity / GR
Measured Depth
Scale 1:500

Location			Elevation	
Total depth:	391 m		K.B.	25.0 m
Spud date:	26 April 01		G.L.	−105.53 m
Runs:	1	To 1	D.F.	25.0 m

Permanent datum: LAT — Elev.: Rotary Table
Log measured from: Rotary Table — 25.0 m above Perm. datum
Depth reference: Driller's Pipe Tally

API serial no.	Vertical Section	Longitude	Latitude
	0 deg	E149 8' 58.72	S37 55' 57.57

Depth logged: 250 m To 391 m
Date logged: 28 Apr 01 To 29 Apr 01

Mag decl: 13.35 deg
Mag dip: −68.39 deg

Other services:
MWD

Bore hole record

Hole size	from	to
12.25 in	153 m	250 m
8.5 in	250 m	391 m

Casing record

Size	Density	from	to
9.625 in	36 lb/ft	130 m	247 m

Mud record

Type	from	to
KCl / Polymer	250 m	391 m

Borehole deviation record

Min	Max	from	to
0.06 deg	0.35 deg	250 m	391 m

Surface equipment		Software record	
Unit	TWIS	IDEAL Wis	6.1c_03
Depth system	Geolograph	SPM	6.1c_03
		LWD	6.3
		MWD	6.1

IDEAL
services from
Anadrill

Bit Run Summary

Run number		1
Bit size	in	8.5
Bit start depth	m	250
Bit end depth	m	391
Top interval logged	m	250
Bottom interval logged	m	387
Begin log: time		15:40
Begin log: date		28 Apr 01
End log: time		2:30
End log: date		29 Apr 01
Mud data		
Depth	m	391
Type		KCl/Polymer

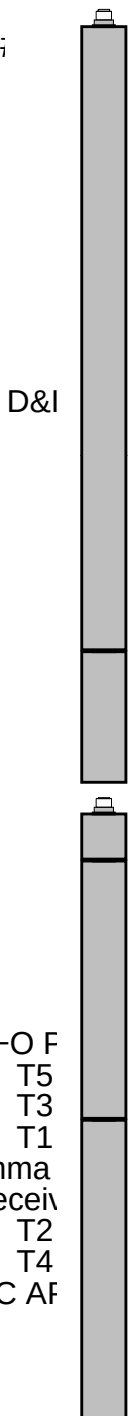
Type		KCl/Polymer									
Mud weight	sg	1.1									
Solids	%	5									
Chlorides	mg/l	31,000									
Rm	ohm.m @ degC	0.149 @ 26									
Rmf	ohm.m @ degC	0.138 @ 28									
Rmc	ohm.m @ degC	0.208 @ 28									
Potassium	mg/l	27,000									
Environmental data											
GR											
Mud weight	sg	1.1									
Bit size	in	8.5									
Resistivity											
Neutron porosity											
Hole Size											
Mud weight											
Temperature											
Mud salinity											
Formation salinity											
Recording rate 1	SEC	5									
Recording rate 2	SEC	5									
Filtering GR		3 point									
Filtering density											
Filtering Neutron											
Company representative		M.Jackson	T.Bray								
Anadrill personnel		A.Strahan	M.Saicic								

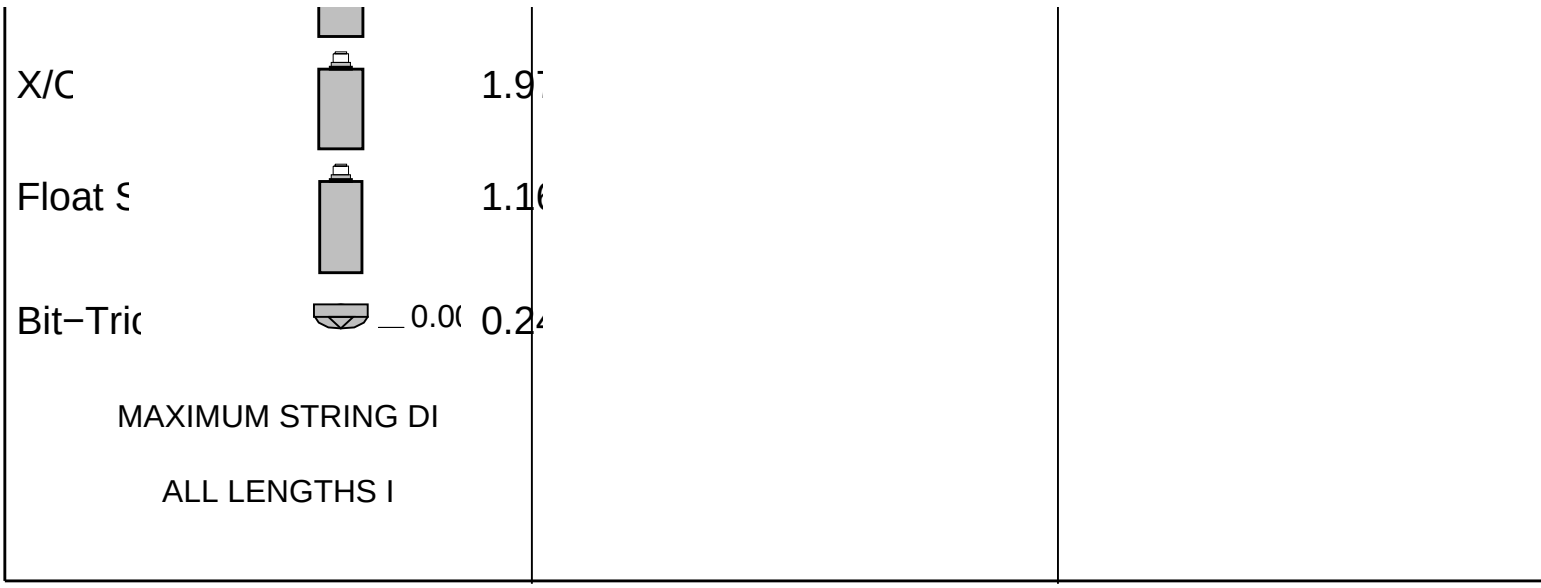
OTHER SERVICES FOR RUN1	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
MWD 4−axis vibration/shock monitoring APWD monitoring		
REMARKS: RUN NUMBER 1	**REMARKS: RUN NUMBER**	**REMARKS: RUN NUMBER**
Drilled in rotary mode from 250−391m Environmental corrections applied: ARC GR − K+, borehole size and mud weight ARC Resistivity is borehole compensated but not environmentally corrected 28 Apr 01 7:15 Initilise ARC#87 8:30 BHA below rotary table 15:40 On bottom drilling at 250m 29 Apr 01 2:30 TD at 391m 4:30 BHA above rotary table. Layout BHA 5:00 Download memory data from ARC		

EQUIPMENT DESCRIPTION

RUN1	RUN	RUN

DOWNHOLE E





IDEAL Version: ID6_1C_03

IDF

ARC5_675 id6_1c_03 MWD_10 id6_1c_03

Format: ARC6 Detail Vertical Scale: 1:500 Graphics File Created: 29−Apr−2001 12:50

Parameters

DLIS Name	Description	Value	
AAPS	ARC5 Attenuation and Phase−Shift source	1_UPHOLE	
APICG	ARC5 Gamma Ray Gain Factor	1.091	
ATRN	ARC5 Tool Run Number	EAGLEBAYAARC APWD PP	
ATSN	ARC5 Tool Serial Number	087	
BHFCT_ARC	ARC5:GR Borehole Factor	1.740	
BS_RM	Bit Size (RM)	8.500	in
DO	Depth Offset	0.0	m
KPER	ARC5:Potassium Concentration	27000.0	
MST_RM	Mud Sample temperature (RM)	26.100	degC
MW_RM	Mud Weight (RM)	9.180	lbm/gal
RMS_RM	Resistivity of Mud Sample (RM)	0.149	ohm.m
VERS_ARC	ARC5 Down hole software version Number	6.300	
WRK	ARC5: Way to Report Potassium Concentration	POTASSIUM_BY_PARTS_PER_MILLION_IE_MG/KG	

PIP SUMMARY

ARC Resistivity Samples

ARC Gamma Ray Samples

ARC Non−BHCorr Phase−Shift Resistivity 40−in. at 2 MHz (P40H_UNC)
0.2 (OHMM) 200

ARC Non−BHCorr Phase−Shift Resistivity 16−in. at 2 MHz (P16H_UNC)
0.2 (OHMM) 200

ARC Calibrated, Filtered Gamma Ray (GR_ARC_FILT)
0 (GAPI) 200

ARC Non−BHCorr Phase−Shift Resistivity 34−in. at 2 MHz (P34H_UNC)
0.2 (OHMM) 200

ARC Non−BHCorr Attenuation Resistivity 40−in. at 2 MHz (A40H_UNC)
0.2 (OHMM) 200

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

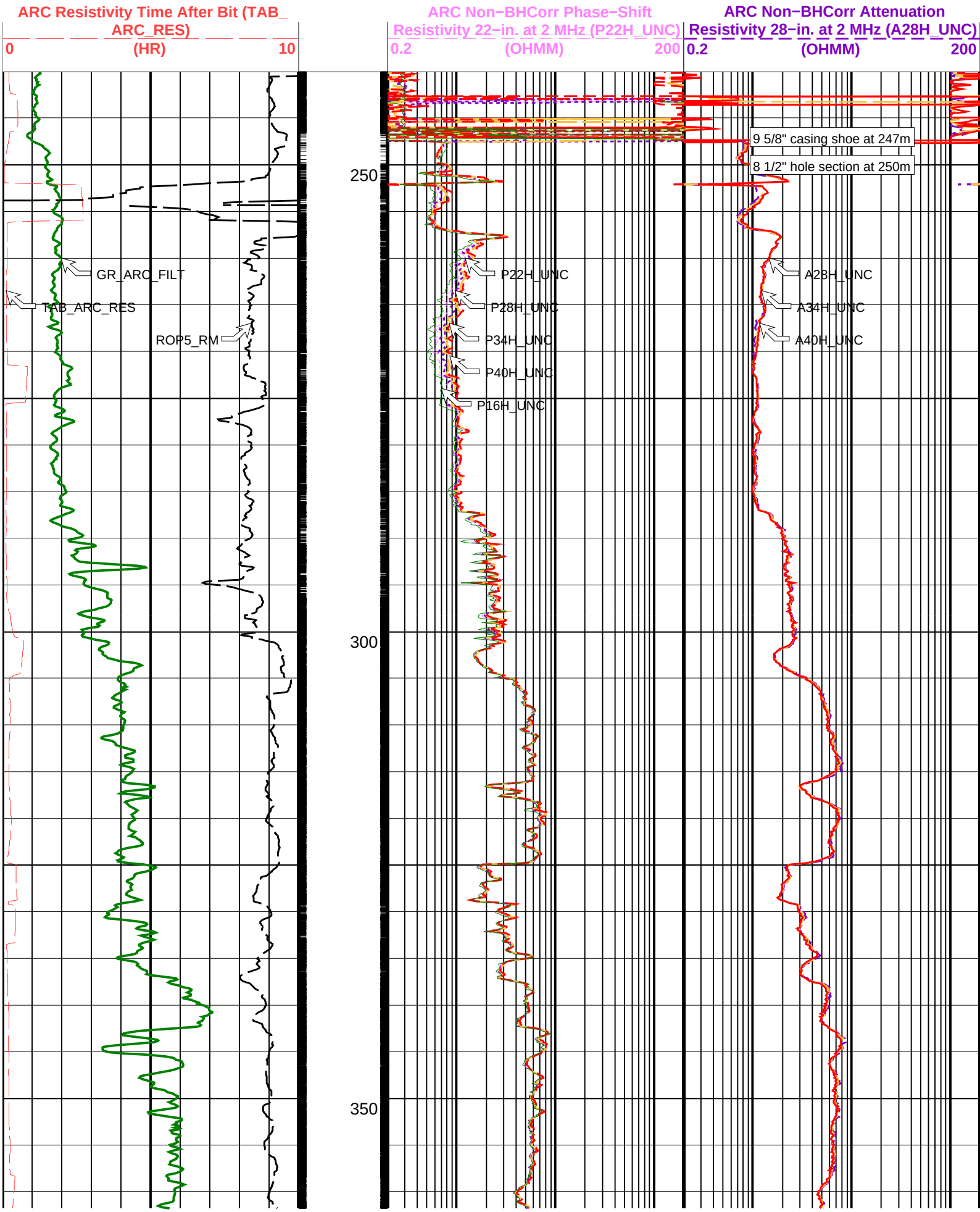
ARC Non−BHCorr Phase−Shift Resistivity 28−in. at 2 MHz (P28H_UNC)
0.2 (OHMM) 200

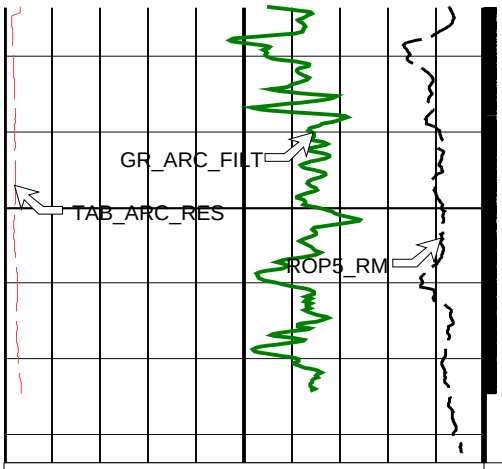
ARC Non−BHCorr Attenuation Resistivity 34−in. at 2 MHz (A34H_UNC)
0.2 (OHMM) 200

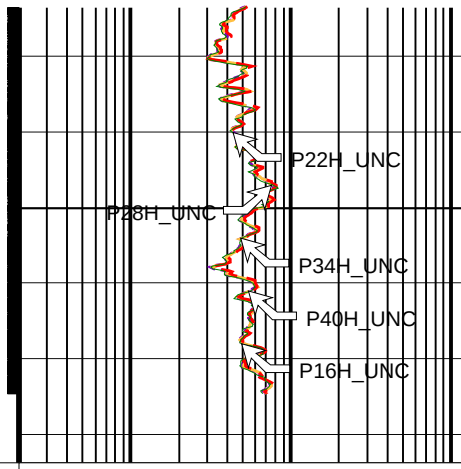
ARC Resistivity Time After Bit (TAB_ARC_RES)

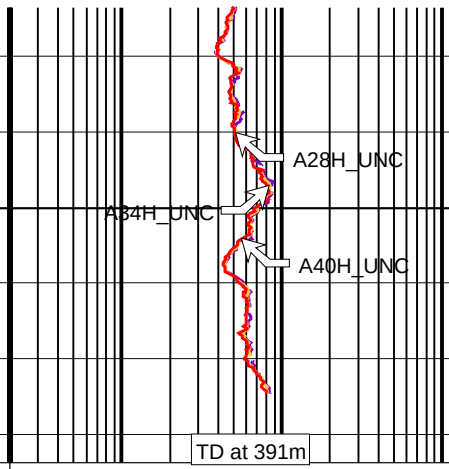
ARC Non−BHCorr Phase−Shift Resistivity 22−in. at 2 MHz (P22H_UNC)

ARC Non−BHCorr Attenuation Resistivity 28−in. at 2 MHz (A28H_UNC)


ARC Resistivity Time After Bit (TAB_ ARC_RES)
0
(HR)
10
ARC Non−BHCorr Phase−Shift Resistivity 22−in. at 2 MHz (P22H_UNC)
0.2
(OHMM)
200
ARC Non−BHCorr Attenuation Resistivity 28−in. at 2 MHz (A28H_UNC)
0.2
(OHMM)
200
9 5/8" casing shoe at 247m
8 1/2" hole section at 250m
GR_ARC_FILT
TAB_ARC_RES
ROP5_RM
P22H_UNC
P28H_UNC
P34H_UNC
P40H_UNC
P16H_UNC
A28H_UNC
A34H_UNC
A40H_UNC
250
300
350







ARC Resistivity Time After Bit (TAB_ARC_RES)
0 (HR) 10

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

ARC Calibrated, Filtered Gamma Ray (GR_ARC_FILT)
0 (GAPI) 200

ARC Non−BHCorr Phase−Shift Resistivity 22−in. at 2 MHz (P22H_UNC)
0.2 (OHMM) 200

ARC Non−BHCorr Phase−Shift Resistivity 28−in. at 2 MHz (P28H_UNC)
0.2 (OHMM) 200

ARC Non−BHCorr Phase−Shift Resistivity 34−in. at 2 MHz (P34H_UNC)
0.2 (OHMM) 200

ARC Non−BHCorr Phase−Shift Resistivity 16−in. at 2 MHz (P16H_UNC)
0.2 (OHMM) 200

ARC Non−BHCorr Phase−Shift Resistivity 40−in. at 2 MHz (P40H_UNC)
0.2 (OHMM) 200

ARC Non−BHCorr Attenuation Resistivity 28−in. at 2 MHz (A28H_UNC)
0.2 (OHMM) 200

ARC Non−BHCorr Attenuation Resistivity 34−in. at 2 MHz (A34H_UNC)
0.2 (OHMM) 200

ARC Non−BHCorr Attenuation Resistivity 40−in. at 2 MHz (A40H_UNC)
0.2 (OHMM) 200

PIP SUMMARY

ARC Resistivity Samples
ARC Gamma Ray Samples

IDEAL Version: ID6_1C_03

IDF

ARC5_675	**id6_1c_03**	**MWD_10**	**id6_1c_03**

6.75−in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:	
Tool Name and Serial Number	ARC − 675 #087
ARC675 Calibration Status	OK

Master: 25−APR−01

6.75−in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Phase−Shift T1 DEG	Value
Master		−0.2200
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Phase	Phase−Shift T2 DEG	Value
Master		0.5200
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Phase	Phase−Shift T3 DEG	Value
Master		−0.3600
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Phase	Phase−Shift T4 DEG	Value
Master		0.4200

Phase	Phase−Shift T5 DEG	Value
Master		−0.4200

Phase	Phase−Shift T1 at 400KHz DEG	Value
Master		−0.5800

Master			0.4200
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)	

Master			−0.4200
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)	

Master			−0.5800
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)	

Phase	Phase−Shift T2 at 400KHz DEG	Value
Master		0.6400
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Phase	Phase−Shift T3 at 400KHz DEG	Value
Master		−0.5800
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Phase	Phase−Shift T4 at 400KHz DEG	Value
Master		0.6400
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Phase	Phase−Shift T5 at 400KHz DEG	Value
Master		−0.5500
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Master: 25−APR−01

6.75−in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Attenuation T1 DB	Value
Master		8.550
6.500 (Minimum)	8.500 (Nominal)	10.50 (Maximum)

Phase	Attenuation T2 DB	Value
Master		6.485
4.500 (Minimum)	6.500 (Nominal)	8.500 (Maximum)

Phase	Attenuation T3 DB	Value
Master		5.159
2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)

Phase	Attenuation T4 DB	Value
Master		4.329
2.600 (Minimum)	4.600 (Nominal)	6.600 (Maximum)

Phase	Attenuation T5 DB	Value
Master		3.671
1.600 (Minimum)	3.600 (Nominal)	5.600 (Maximum)

Phase	Attenuation T1 at 400KHz DB	Value
Master		8.510
6.500 (Minimum)	8.500 (Nominal)	10.50 (Maximum)

Phase	Attenuation T2 at 400KHz DB	Value
Master		6.470
4.500 (Minimum)	6.500 (Nominal)	8.500 (Maximum)

Phase	Attenuation T3 at 400KHz DB	Value
Master		5.110
2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)

Phase	Attenuation T4 at 400KHz DB	Value
Master		4.360
2.600 (Minimum)	4.600 (Nominal)	6.600 (Maximum)

Phase	Attenuation T5 at 400KHz DB	Value
Master		3.670
1.600 (Minimum)	3.600 (Nominal)	5.600 (Maximum)

Master: 25−APR−01

6.75−in. Array Resistivity Compensated Calibration

Gamma Ray: Blanket

Phase	Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS	Value
Master		5.237
3.840 (Minimum)	4.800 (Nominal)	6.000 (Maximum)

Company: Eagle Bay Resources

Well: Northright−1

Field: VIC/P−41

Rig: Ocean Bounty

State: Victoria

Exploration

IDEAL services from **Anadrill**

ARC Resistivity / GR
Measured Depth
Scale 1:500

Schlumberger