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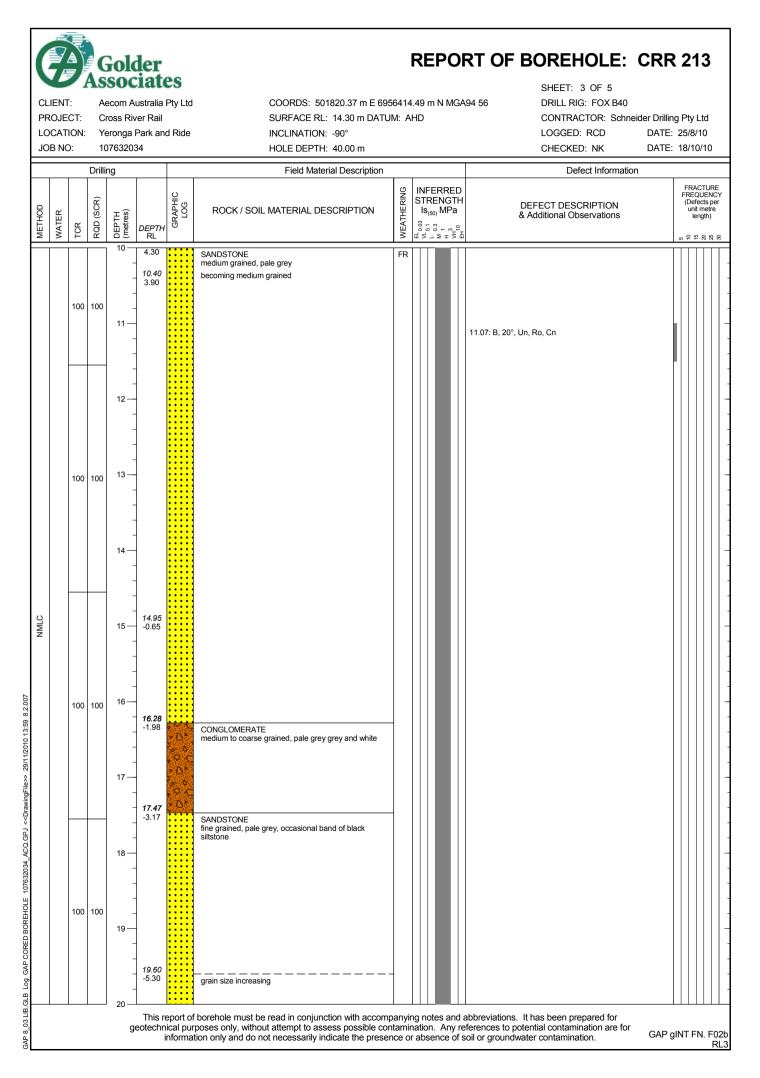
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			G	olde	er ates				REPORT OF I			EHOLE: CRR 213		
CLIENT:Aecom Australia Pty LtdPROJECT:Cross River RailLOCATION:Yeronga Park and RideJOB NO:107632034							SHEET: 1 OF 5         COORDS: 501820.37 m E 6956414.49 m N MGA94 56       DRILL RIG: FOX B40         SURFACE RL: 14.30 m DATUM: AHD       CONTRACTOR: Schneider Drillin         INCLINATION: -90°       LOGGED: RCD       DATE         HOLE DEPTH: 40.00 m       CHECKED: NK       DATE							
F		D	rilling		Sampling				Field Material Desc					
METHOD	PENETRATION		DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	-	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS		
GaP 8_03 LB GLB Log GAP NON-CORED FULL PAGE 107632034_ACQ.GPJ < <drawingfile>&gt; 29/1/2010 13:39 8.2.007 AS</drawingfile>					SPT 1.00-1.45 m 19, 24, 25 N=49 SPT 2.50-2.95 m 30, 0			SP SC CL- ML	ASPHALT Gravelly SAND medium grained, pale orange brown, coarse gravel, road base Clayey SAND medium grained, pale grey and pale orange brown, high plasticity clay, residual soil Silty CLAY low plasticity, pale grey with pale orange brown, residual soil For Continuation Refer to Sheet 2 In conjunction with accompanying notes and abbreviations.	thas	VD D VSt-H	n prepared for		
GAP 8_03				geot	echnical purposes or	nly, v	vithout	atten	n conjunction with accompanying notes and abdreviations. In to assess possible contamination. Any references to pot essarily indicate the presence or absence of soil or groundwa	entia	I cont	tamination are for		

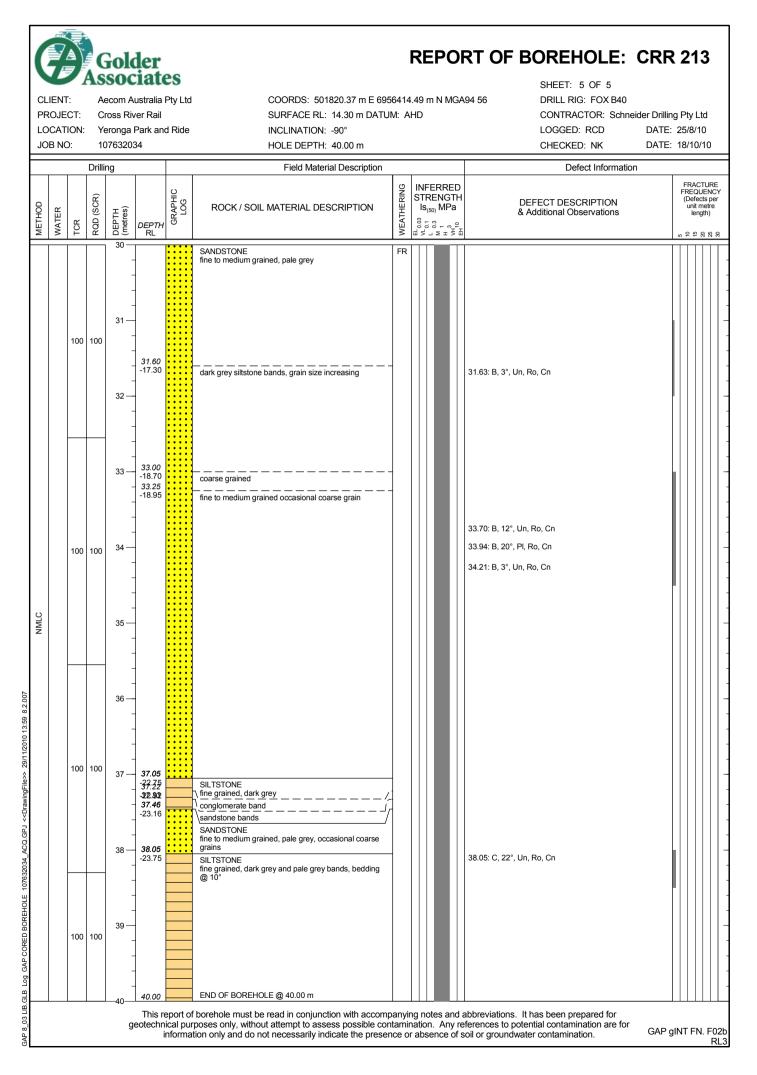
CLIENT:       Aecom Australia Pty Ltd         PROJECT:       Cross River Rail         LOCATION:       Yeronga Park and Ride         JOB NO:       107632034					ustralia /er Rail Park an	Pty Ltd	COORDS: 501820.37 m E 6956414.49 m N MGA94 56 SURFACE RL: 14.30 m DATUM: AHD INCLINATION: -90° HOLE DEPTH: 40.00 m						SHEET: 2 OF 5 DRILL RIG: FOX B40 CONTRACTOR: Schneider Drilling F LOGGED: RCD DATE: 25 CHECKED: NK DATE: 18			25/8/10			
			Drilli	ng	Ι		Field Material Description						Defect Information		_	_			
MEIHOU	WATER	TCR	RQD (SCR)	OEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WFATHFRING	S	STRE Is <sub>(50)</sub>	RREI MGT MPa	H	DEFECT DESCRIPTION & Additional Observations	FR (D	RAC REQL Defec unit n lenc	UEN cts p metr igth)			
		70	0	- - - - - - - - - - - - - - - - - - -	3.00 3.10 3.20 11.10 3.50 10.80		Continuation of Sheet 1 SANDSTONE fine grained, pale orange brown and pale grey SANDY SILT pale grey, fine sand residual soil CORE LOSS SANDY SILT pale grey with pale orange brown and black, bands residual soil bands of siltstone fine grained black very low strength possible bedding @ 65°		v										
		85	50	- - - - 7 - - - - - - - - -	5.55 8.75 6.00 8.30 7.61 6.69 7.95		CORE LOSS SANDSTONE medium with coarse grained, pale orange brown becoming pale grey CONGLOMERATE medium grained, pale grey with grey grey green and white	FF				6.95: B, 11°, 7.08: B, 11°,	Un, Ro, Sn, limonite Un, Ro, Sn, limonite Un, Ro, Sn, limonite Un, Ro, Ct, 120 mm, rock fragments						
		100	65	8 — - - 9 — - - -	6.05 9.25 6.30 6.00		SANDSTONE medium grained, pale grey band of conglomerate 70 mm band of conglomerate 55 mm band of conglomerate 120 mm	<u> </u>											

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CLIENT:         Aecom Australia Pty Ltd           PROJECT:         Cross River Rail           LOCATION:         Yeronga Park and Ride           JOB NO:         107632034				ecom A ross Riv eronga	ustralia ver Rail Park and	Pty Ltd	COORDS: 501820.37 m E 695 SURFACE RL: 14.30 m DATU INCLINATION: -90° HOLE DEPTH: 40.00 m	A94 56 DRILL RIG: FOX B40 CONTRACTOR: Schneider Drill LOGGED: RCD DATE	CONTRACTOR: Schneider Drilling Pty Ltd LOGGED: RCD DATE: 25/8/10				
			Drillir	ng			Field Material Description				Defect Information		
	WATER	TCR	RQD (SCR)	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	STI Is	FERRED RENGTH	H DEFECT DESCRIPTION & Additional Observations	FRE (De ur	EQUE efects nit me length ₽ R
		100	100	20			SANDSTONE fine grained, pale grey, occasional band of black siltstone	FR			20.43: B, 13°, Un, Ro, Cn		
				- 21 — - -	20.83 -6.53		band of conglomerate and multiple shale bands 205 mm				20.61: DS, 3°, Un, Ro, Ct, 20 mm, clay & rock fragments.		
		100	100	22.74 8.44 23 - 23.41 9.11 9.									
					band of conglomerate 75 mm	-							
					24.47 24.64	•••••	SILTSTONE \fine grained, dark grey / \SANDSTONE						
		100	100		-10.50 25.10 25.25 25.40 -11.10		fine to medium grained, pale grey CONGLOMERATE fine to medium grained, pale grey SANDSTONE medium to coarse grained, pale grey, with some grains up to 20 mm and bands of dark grey siltstone CONGLOMERATE medium grained, pale grey with grey white and green						
				- 26 - -	-11.48 <b>26.14</b> -11.84		SANDSTONE medium grained, pale grey CONGLOMERATE coarse grained, pale grey SANDSTONE medium grained, pale grey	-			25.76: C, 6°, Pl, Ro, Cn		
		100		- 27 — - -			SILTSTONE fine grained, grey, bedding @ 10° SANDSTONE fine to medium grained, pale grey						
			100	- 28									
		100	100	29 — - -									



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CLIENT: Aecom Australia Pty Ltd PROJECT: Cross River Rail LOCATION: Yeronga Park and Ride JOB NO: 107632034

## **REPORT OF CORE PHOTOGRAPHS: CRR 213**

 COORDS:
 0501820 m E
 6956414 m N

 SURFACE RL:
 14.30
 DATUM:
 AHD

 INCLINATION:
 -90°
 HOLE DEPTH:
 40.0 m

DEPTH RANGE: 3.2-23.0 m DRILL RIG: Fox B40 DRILLER: Schneider Drilling Pty Ltd LOGGED: RCD DATE: 25/08/10 CHECKED: NK DATE: 4/10/10





CLIENT: Aecom Australia Pty Ltd PROJECT: Cross River Rail LOCATION: Yeronga Park and Ride JOB NO: 107632034

## **REPORT OF CORE PHOTOGRAPHS: CRR 213**

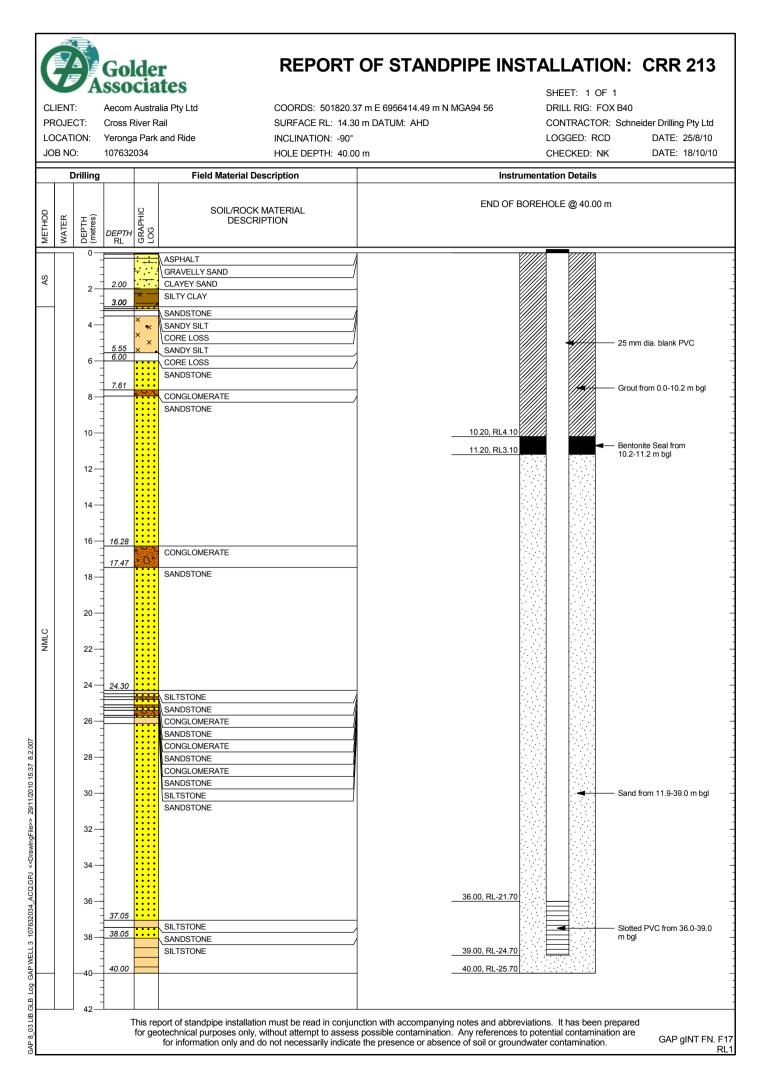
 COORDS:
 0501820 m E
 6956414 m N

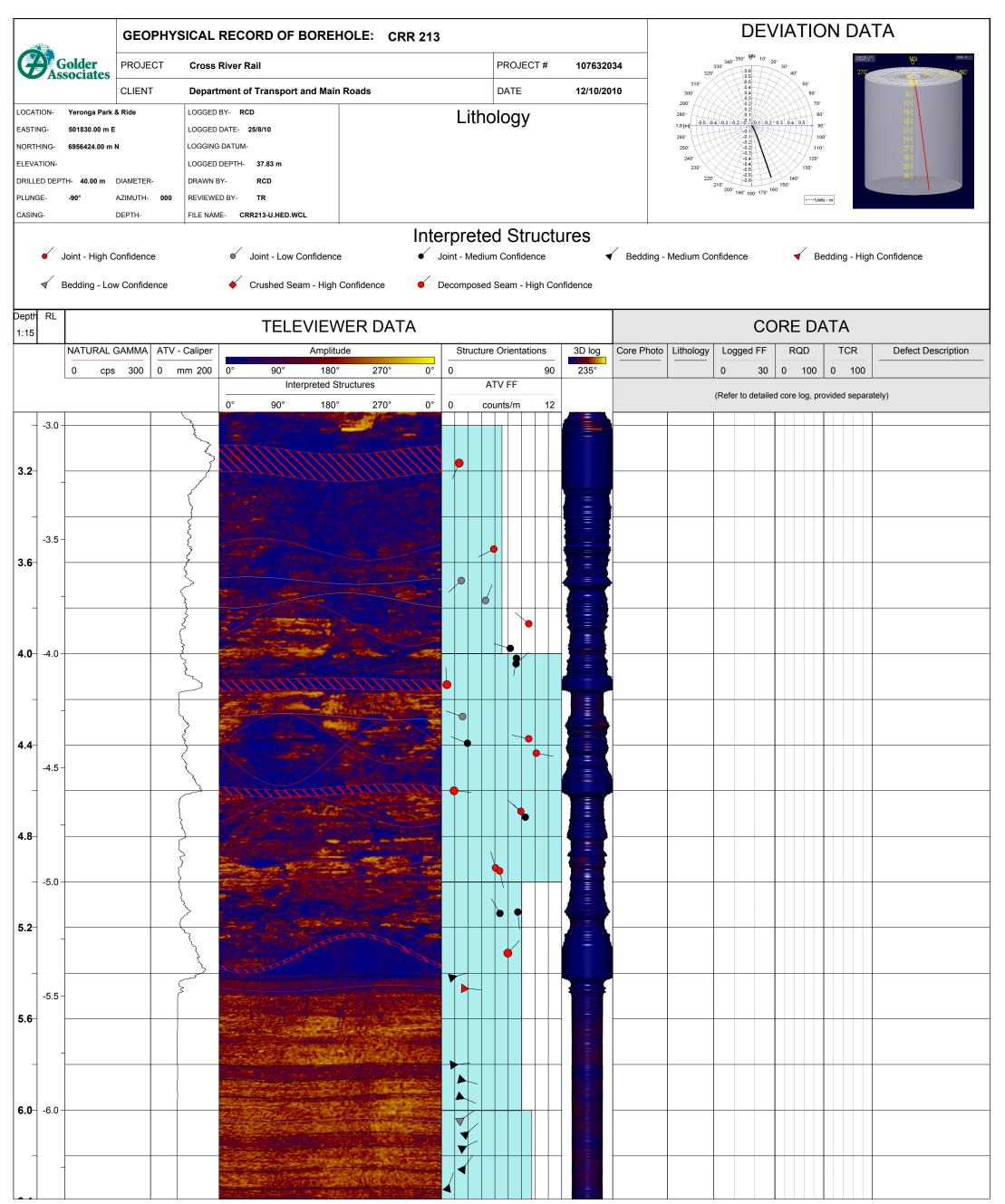
 SURFACE RL:
 14.30
 DATUM:
 AHD

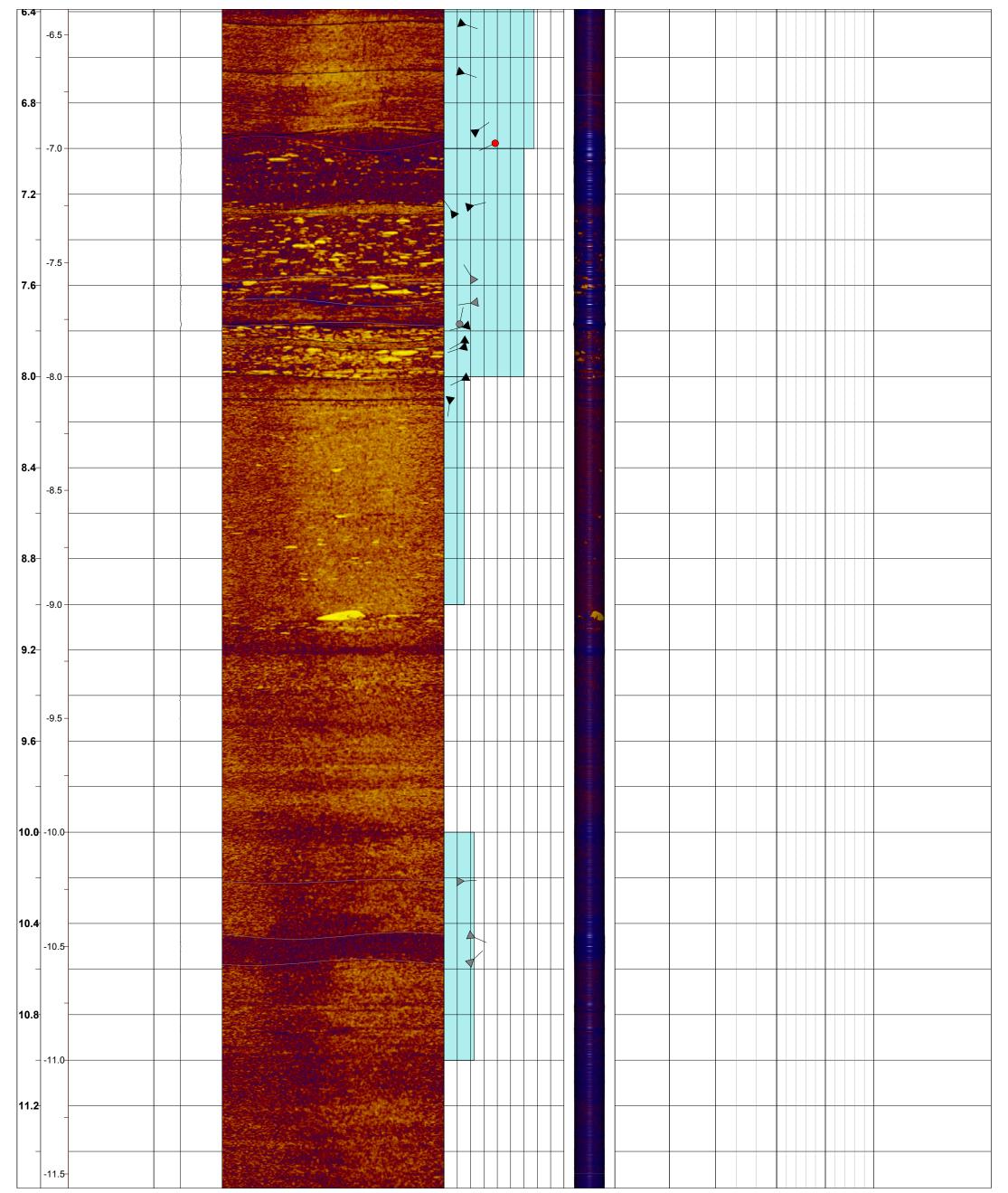
 INCLINATION:
 -90°
 HOLE DEPTH:
 40.0 m

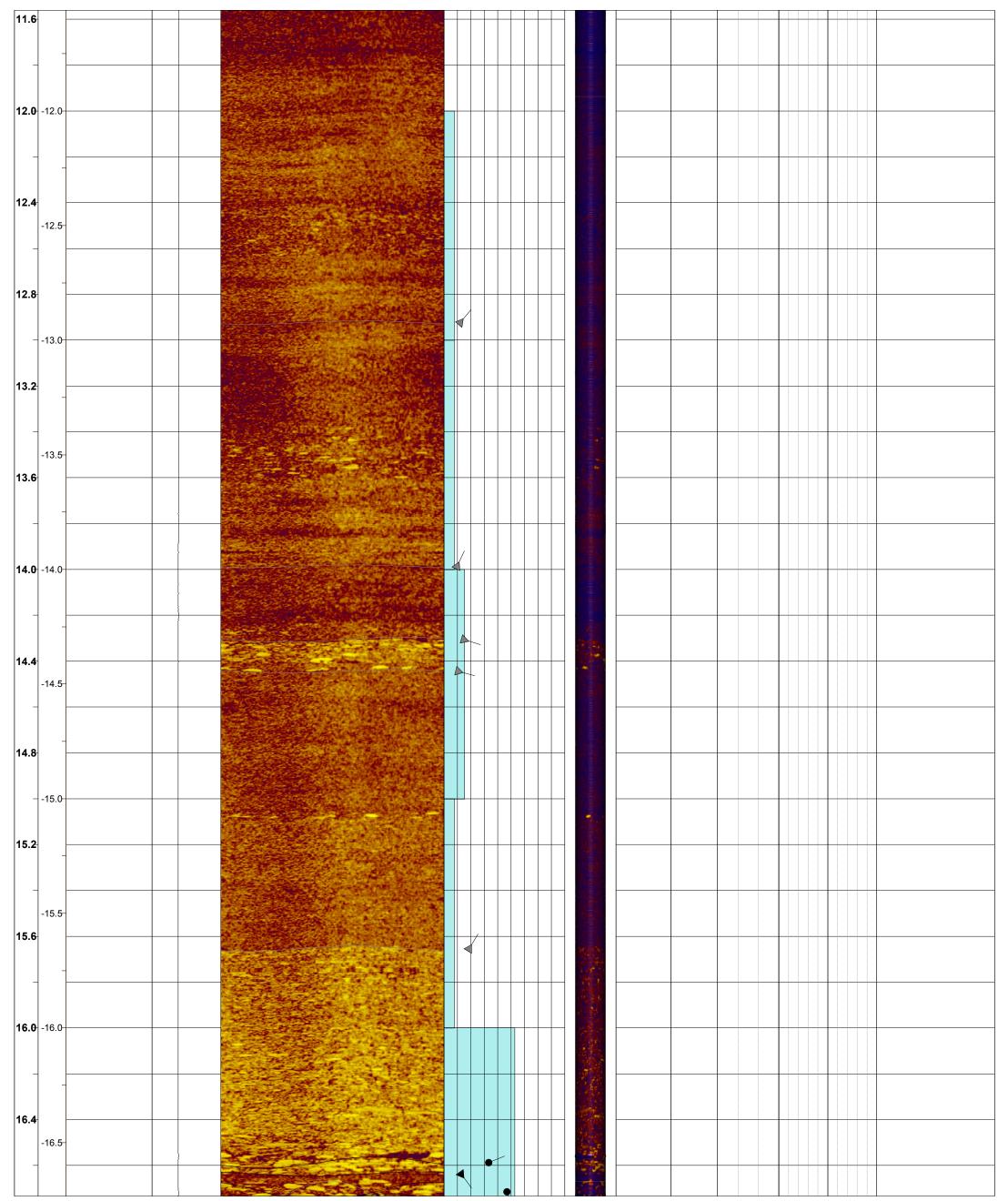
DEPTH RANGE: 23.0-40.0 m DRILL RIG: Fox B40 DRILLER: Schneider Drilling Pty Ltd LOGGED: RCD DATE: 25/08/10 CHECKED: NK DATE: 4/10/10

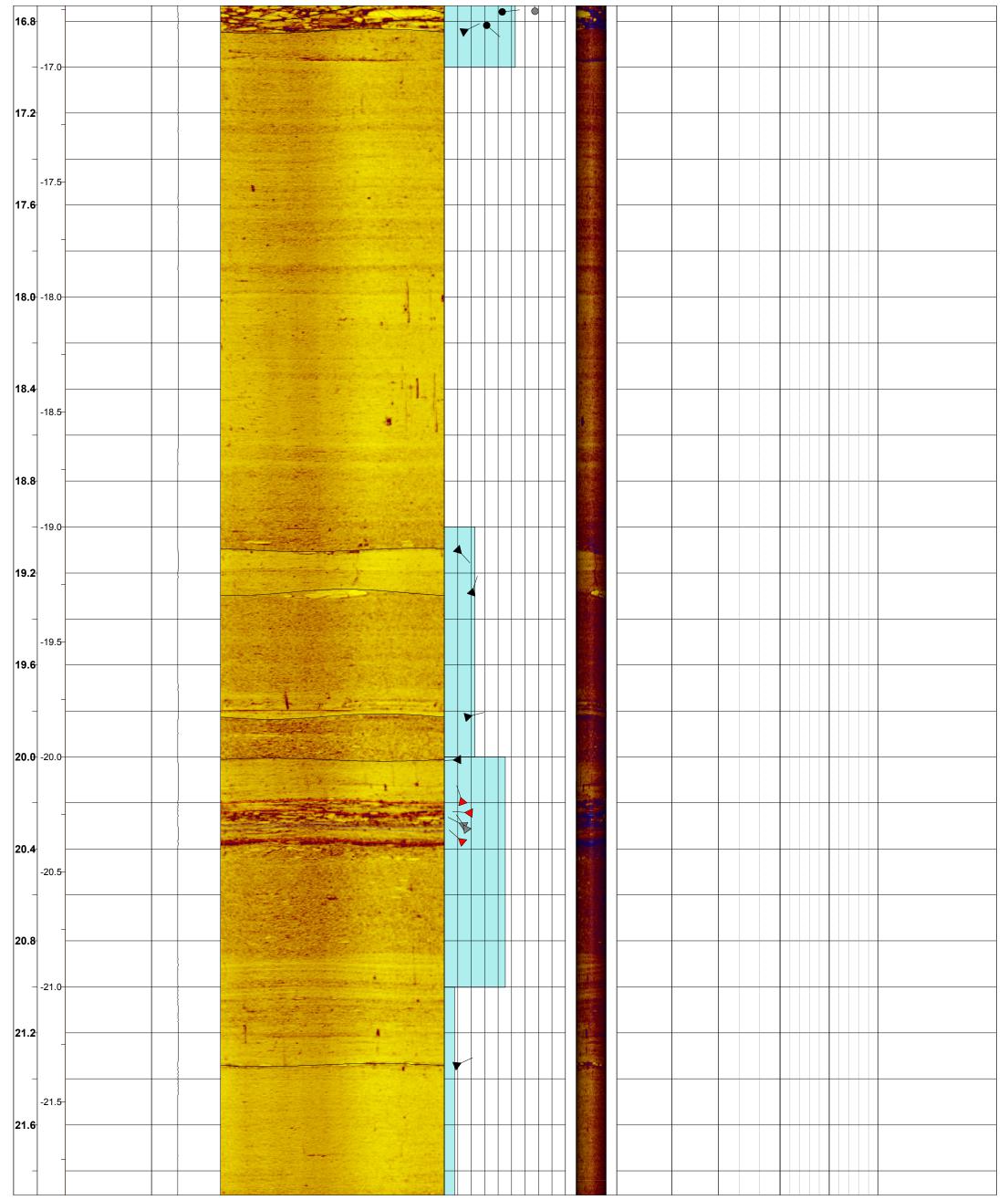


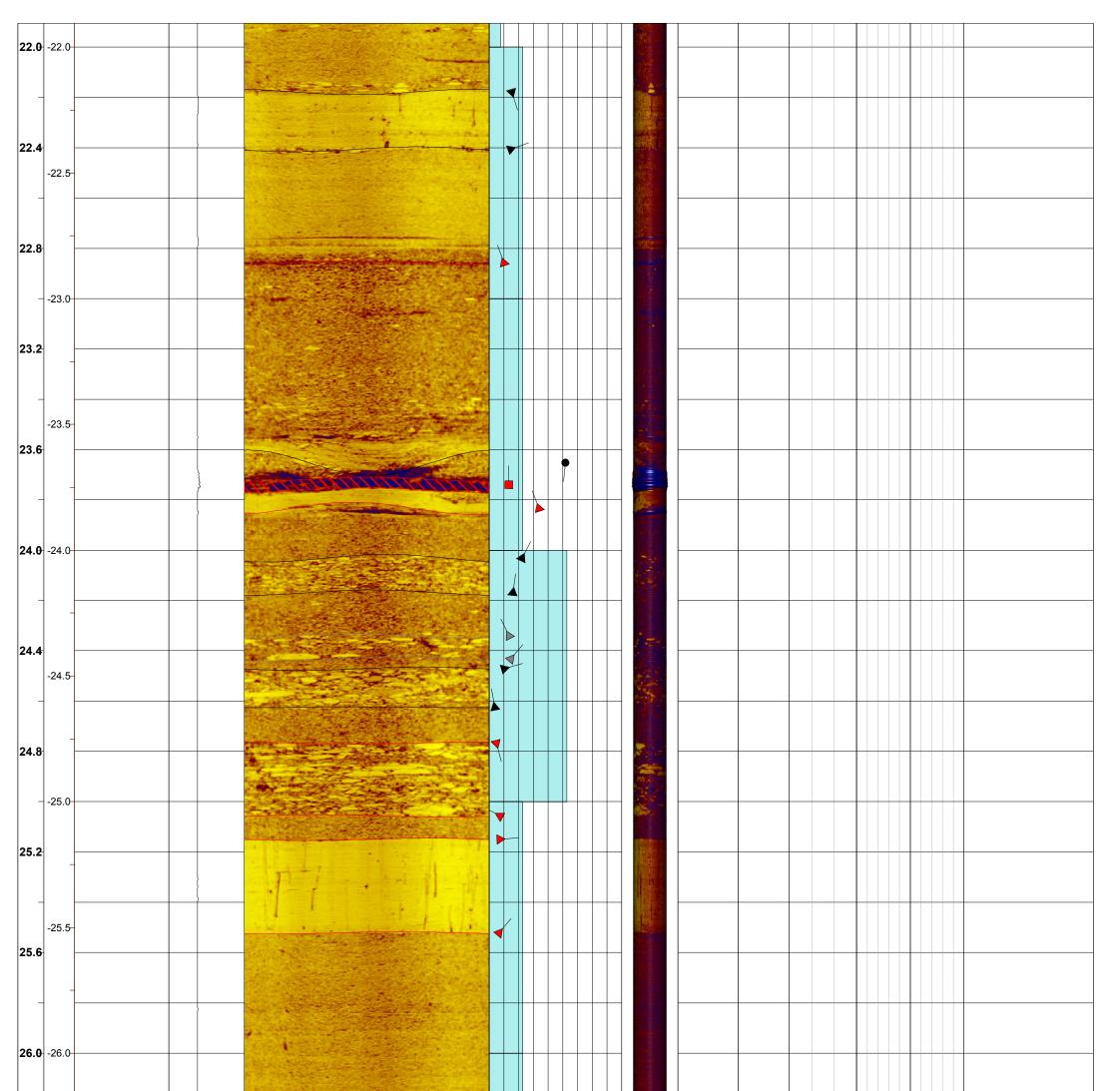


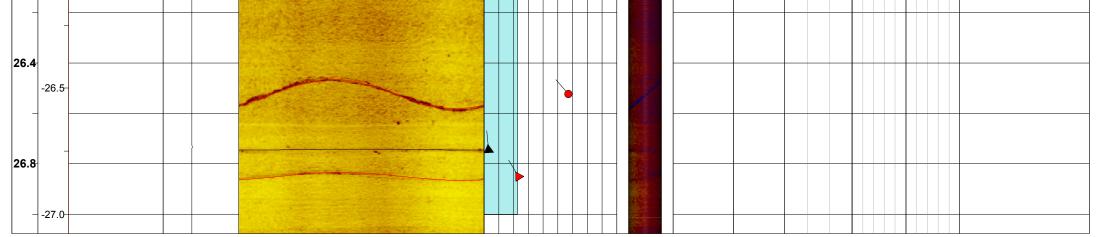


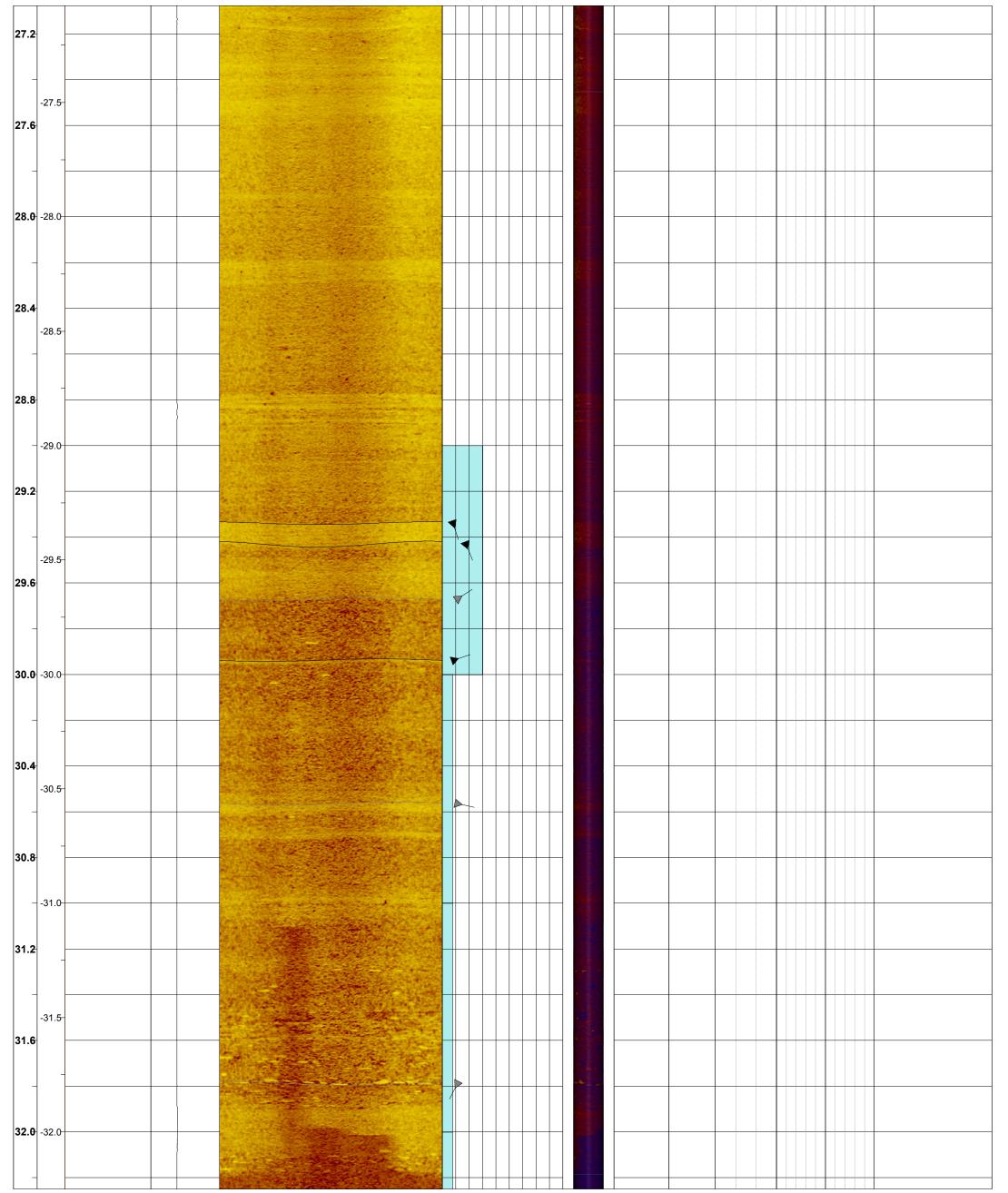


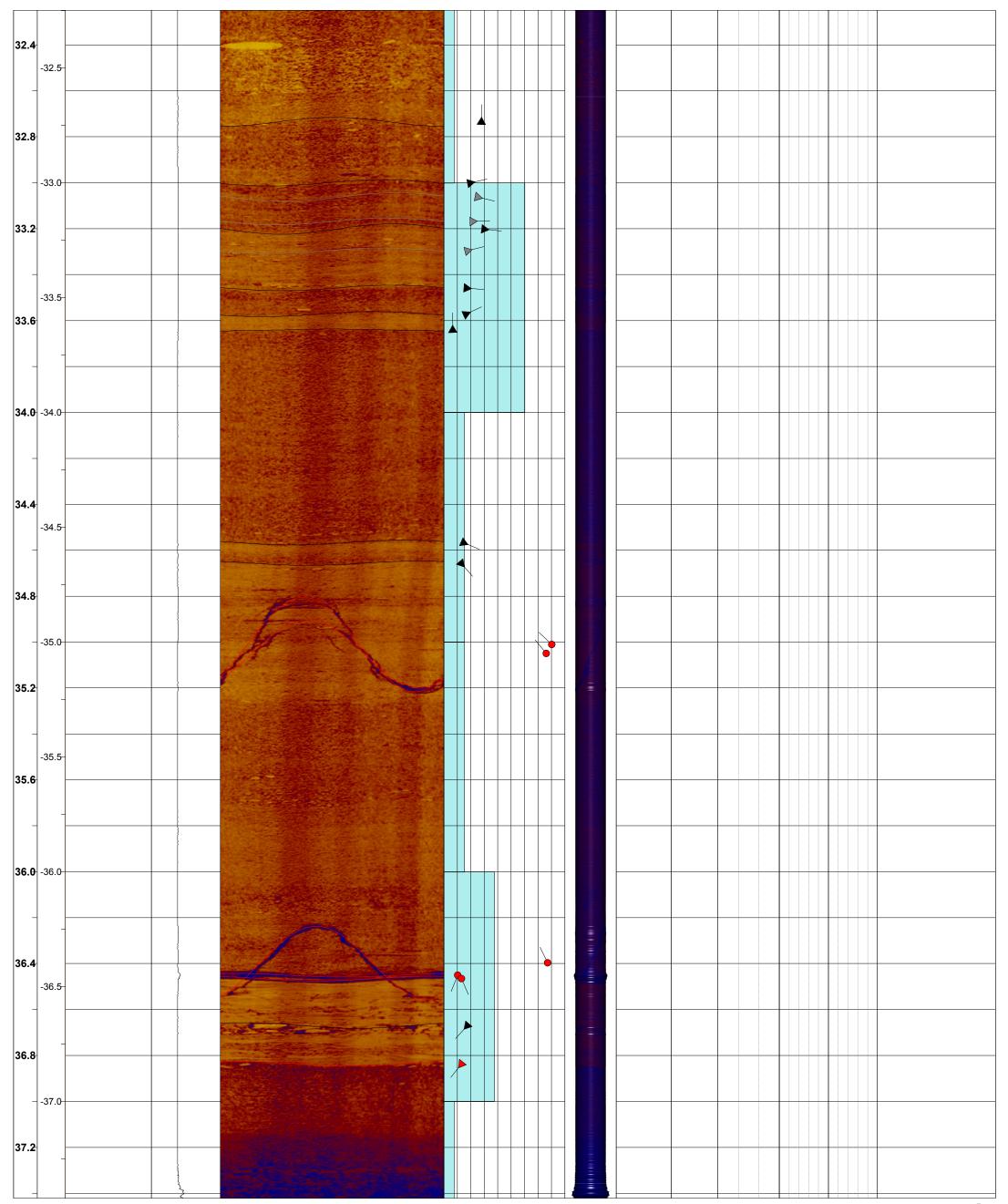










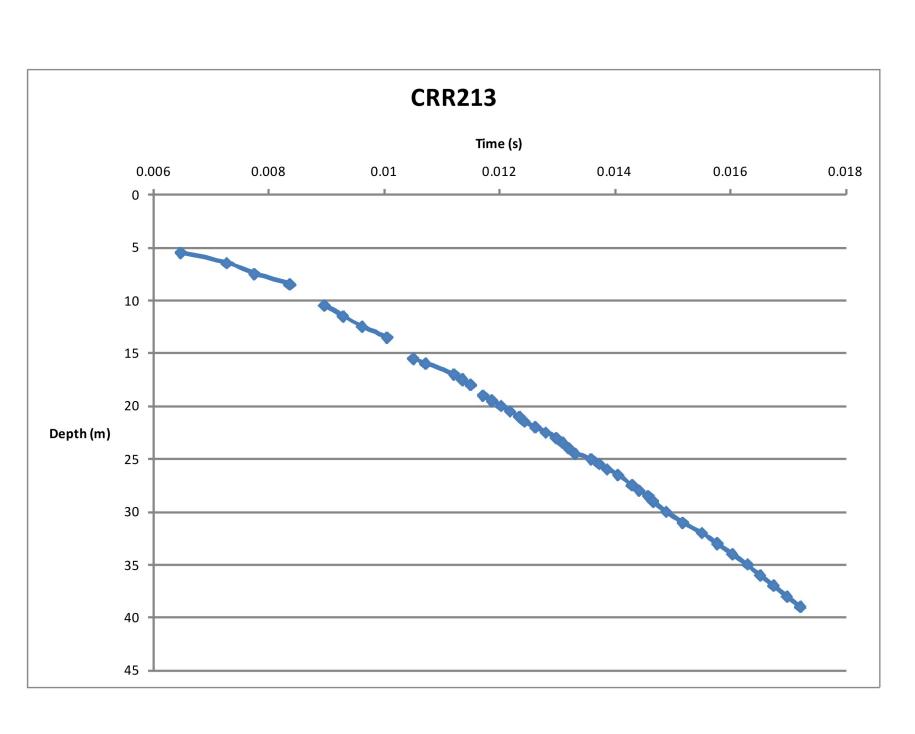


-37.5- <b>37.6</b>	whenever							
-	- Alman A							
<b>39 0</b> 38 0								
	 		 	L	·		 GA-BQ-291 RL1	

Issued 31/03/10

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Note:

\* - 1st arrival not clear due to noise

Calculations done without accounting for borehole deviation

	a	epartment o nd Main Roa		nsport	PROJECT
Golder	DRAWN	GDK	DATE	OCT 4	TITLE
Golder	CHECKED	TR	DATE		]
	SCALE	NTS			PROJECT N

epth (m)	Interval velocity (P wave m/s)
to	
6.5	1257
7.5	2086
8.5	1629
9.5	*
10.5	*
11.5	3066
12.5	3077
13.5	2303
14.5	*
15.5	*
16	2392
17	2044
17.5	3424
18	3426
18.5	*
19	*
19.5	3169
20	3170
20.5	3171
21	3171
21.5	5316
22	2749
22.5	2749
23	2750
23.5	4367
24	4675
24.5	4675
25	1822
25.5	3557
26	3557
26.5	2666
27.5	4100
28	4101
28.5	3266
29	5697
30	4463
31	3532
32	2963
33	3812
34	3792
35	3793
36	4520
37	4307
38	4307
39	4308
33	4300

Geophone Depth (

from

5.5

6.5

7.5

8.5

9.5

10.5

11.5

12.5

13.5

14.5

15.5

16

17

17.5

18

18.5

19

19.5

20

20.5

21

21.5

22 22.5

23

23.5 24

24.5

25 25.5

26

26.5

27.5

28

28.5 29

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## **Cross River Rail**

# **CRR213 VSP**

PROJECT № 000-107632034

FIGURE No

REV No A3