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REPORT OF BOREHOLE: CRR 203

SHEET: 1 OF 6
COORDS: 502763.00 m E 6961178.00 m N MGA94 56
DRILL RIG: FOX 6

CLIENT: Aecom Australia Pty Ltd COORDS: 502763.00 m E 6961178.00 m N MGA94 56 DRILL RIG: FOX B40
PROJECT: Cross River Rail SURFACE RL: DATUM: AHD CONTRACTOR: Schneider Drilling Pty Ltd

 LOCATION:
 Margaret St, W of Albert St
 INCLINATION: -90°
 LOGGED: MGM
 DATE: 2/8/10

 JOB NO:
 107632034
 HOLE DEPTH: 44.55 m
 CHECKED: NK
 DATE: 18/10/10

		חייי	ling		Sampling	T			Field Material Desc	rintic	n .		
	z		ıııg		Sampling			Ţ					
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	<i>DEPTH</i> RL	SAMPLE OR [FIELD TEST [RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS	
\neg			0 —	0.20					ASPHALT			Recovered SPT sample from 2.5-2.95 m then installed casing to 3.5 m, switched to	
			1—	0.50	SPT 1.00-1.45 m			GM CL- CI	Silty GRAVEL (FILL) fine to medium grained, angular, brown, with some sand Sandy CLAY (FILL) low to medium plasticity, grey black, trace fine gravel		MD	rotary and drilled out to 4.0 m then pushed U50 tube. Bedrock recovered in tip of sample tube. Started coring at 4.35 m. PVC casing (ID 78 mm) installed in borehole to 4.7 m upon completion of drilling. Gatic cover installed and hole left open for ATV testing and piezometer installation.	
ADV	L-M		2—		2, 3, 4 N=7 PP = 75 kPa					М		incented.	
			3—	2.50	SPT 2.50-2.95 m 1, 2, 3 N=5 PP = 100 kPa			СН	CLAY high plasticity, grey black, natural organic odour (ALLUVIUM)		F		٠
RD	М		4		U50 4.00-4.35 m					M - W			
			_				_		For Continuation Refer to Sheet 2				
			5										-
			6										
			7										
			9—										
			- - - 10—										
				T geot	echnical purposes only,	, wi	thout a	attem	n conjunction with accompanying notes and abbreviations. npt to assess possible contamination. Any references to pot ssarily indicate the presence or absence of soil or groundwa	entia	I cont	tamination are for)1 <u>?L</u>



107632034

JOB NO:

ACQ.GPJ

GAP CORED BOREHOLE

200

GAP 8 03 LIB.GLB

REPORT OF BOREHOLE: CRR 203

CHECKED: NK

DATE: 18/10/10

SHEET: 2 OF 6 COORDS: 502763.00 m E 6961178.00 m N MGA94 56 DRILL RIG: FOX B40

CLIENT: Aecom Australia Pty Ltd PROJECT: SURFACE RL: DATUM: AHD CONTRACTOR: Schneider Drilling Pty Ltd LOCATION: Margaret St, W of Albert St LOGGED: MGM DATE: 2/8/10 INCLINATION: -90°

HOLE DEPTH: 44.55 m

Drilling Field Material Description Defect Information FRACTURE FREQUENCY (Defects per unit metre length) INFERRED WEATHERING GRAPHIC LOG STRENGTH RQD (SCR DEFECT DESCRIPTION ROCK / SOIL MATERIAL DESCRIPTION Is₍₅₀₎ MPa WATER DEPTH (metres) & Additional Observations L VE 0.03 TCR DEPTH RL 8 28 28 29 Continuation of Sheet 1 4.50 fine grained, brown, metasiltstone interlaminated with dark gray argillite no recovery, section drilled out for installation of 5.00 casing 50 0 5 HW CORE LOSS META SILTSTONE
fine grained, brown, metasiltstone interlaminated with
black argillite bands, trace quartz bands, <1 mm thick
soft clay infil along joints that typically parallel banding
(NERANLEIGH-FERNVALE FM) MW 5.60: J, 70°, PI, Sm, Vr, soft white clay with angular rock fragments 5.72: J, 30°, Un, Sm, Vr, soft white clay infill along joint 5.84: J, 50°, Pl, Sm, Vr, soft white clay infill along joint 100 10 <<DrawingFile>> 29/11/2010 13:50 6.45 CORE LOSS MΛ META SILTSTONE 6.63: CZ. 25 mm METABLISTONE
fine grained, brown, metasiltstone interlaminated with
black argillite bands, trace quartz bands, <1mm thick
soft clay infil along joints that typically parallel banding
(NERANLEIGH-FERNVALE FM) MW 6.88: J, 35°, Un, Sm, 2 mm, soft white clay infill along joint 7.03: J, 60°, Pl, Sm, Cn-Ct, opposite orientation from others, not parallel to bedding/laminations SW 95 50 8 7.96: J, 50°, PI, Sm, Vr, soft white clay infilling along joint 8.40 SW increase in number of quartz bands, typically up to 5 mm thick 100 70 9.84: J, 50°, PI, Sm, Vr, soft white clay infilling This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for GAP gINT FN. F02b information only and do not necessarily indicate the presence or absence of soil or groundwater contamination. RL:



REPORT OF BOREHOLE: CRR 203

COORDS: 502763.00 m E 6961178.00 m N MGA94 56

SURFACE RL: DATUM: AHD

SHEET: 3 OF 6

PROJECT: Cross River Rail

CLIENT:

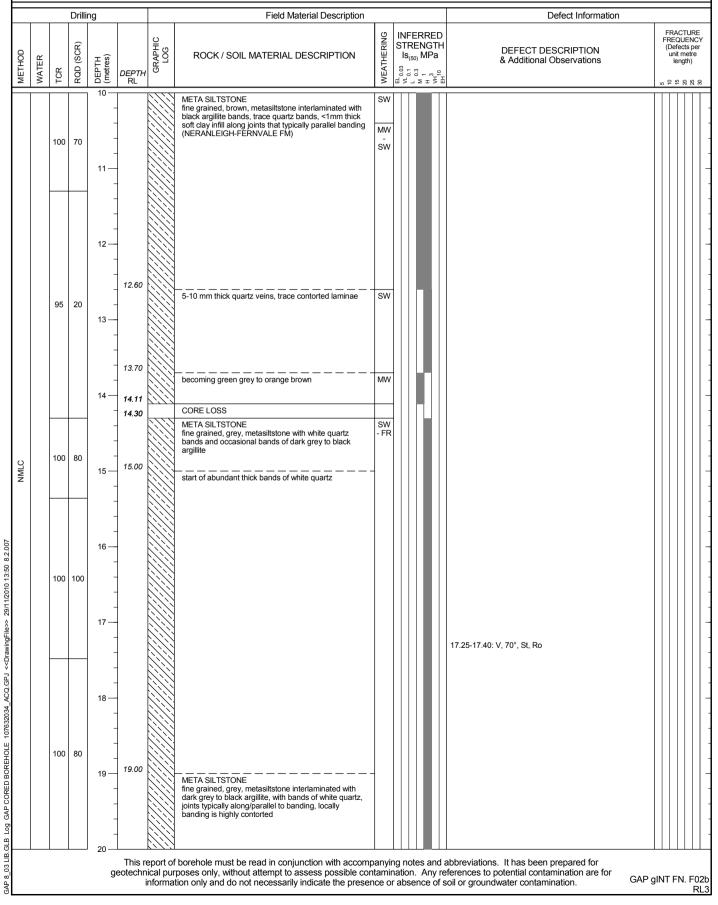
DRILL RIG: FOX B40

Aecom Australia Pty Ltd

CONTRACTOR: Schneider Drilling Pty Ltd LOGGED: MGM DATE: 2/8/10

LOCATION: Margaret St, W of Albert St INCLINATION: -90° JOB NO: 107632034 HOLE DEPTH: 44.55 m

CHECKED: NK DATE: 18/10/10





REPORT OF BOREHOLE: CRR 203

COORDS: 502763.00 m E 6961178.00 m N MGA94 56

CLIENT: Aecom Australia Pty Ltd PROJECT: Cross River Rail SURFACE RL: DATUM: AHD

LOCATION: Margaret St, W of Albert St INCLINATION: -90° JOB NO: 107632034 HOLE DEPTH: 44.55 m SHEET: 4 OF 6 DRILL RIG: FOX B40

CONTRACTOR: Schneider Drilling Pty Ltd LOGGED: MGM DATE: 2/8/10 DATE: 18/10/10 CHECKED: NK

	[Drillin	g			Field Material Description				Defect Information		
포 첫 건 장 교 등 RL			<i>DEPTH</i> RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION			ERRED RENGTH (50) MPa	DEFECT DESCRIPTION & Additional Observations	FRACTURI FREQUENC (Defects pe unit metre length)		
10	00	80	20 —			META SILTSTONE fine grained, grey, metasiltstone with white quartz bands and occasional bands of dark grey to black argillite	SW - FR			20.00-20.50: J, 90°, St, Ro, Sn-Vr, orange brown staining along length of defect, locally crushed and minor soft clay infill		
10	000	65	21 —	23.15						22.50: SZ, 65°, Un, Sm, 160 mm, 30mm thick zone of soft black clay at top of defect, then small rock fragments to 22.6m		
10 NWI CO	000	50	24 —	23.15	META SILTSTONE fine grained, grey to black bands some white, metasiltstone interlaminated with dark grey to black argillite, with quartz bands typically in range of 5-10 mm thick but locally up to 30 mm thick, joints and quartz typically along/parallel to banding, locally banding is highly distorted	MW - SW SW - FR			23.15-23.23: J, 75°, Un, Sm, Cn 23.26-23.29: J, 30°, Pl, Sm, Cn 25.00-25.06: CZ, 45°			
10	00	50	26 — - - - 27 —						26.25-26.29: J, 40°, Un, Sm, Vr, -black clay veneer along joint			
10	000	15	28 — 29 — -							27.42-27.69: FC, 85°, St, Ro 27.95-28.00: J, 45°, PI, Sm, Vr 28.20-28.27: CZ, 40°, PI, Sm 28.58-28.59: J, 30°, PI, Sm, Vr 28.64-28.69: J, 60°, PI, Sm, Vr 28.69-28.70: J, 20°, PI, Sm, Vr 28.69-29.08: CZ, 90°, PI, Sm, Vr		
10	00	50	30 —				FR					



Aecom Australia Pty Ltd

Cross River Rail

CLIENT:

PROJECT:

REPORT OF BOREHOLE: CRR 203

SHEET: 5 OF 6

CHECKED: NK

COORDS: 502763.00 m E 6961178.00 m N MGA94 56

COORDS: 502/63.00 m E 69611/8.00 m N MGA94 56 DRI

SURFACE RL: DATUM: AHD COI

LOCATION: Margaret St, W of Albert St INCLINATION: -90°

JOB NO: 107632034 HOLE DEPTH: 44.55 m

DRILL RIG: FOX B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: MGM DATE: 2/8/10

DATE: 18/10/10

Drilling						Field Material Description	Defect Information					
METHOD WATER TCR		RQD (SCR)	DEPTH (metres)	<i>DEPTH</i> RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	[포]	STF Is ₍	ERRED RENGTH 50) MPa	& Additional Observations	FRACTI FREQUE (Defects unit me length	
1	100	50	30 —			META SILTSTONE fine grained, grey, metasiltstone with white quartz bands and occasional bands of dark grey to black argillite	FR			30.02-30.04: J, 30°, Pl, Sm, Vr 30.17-30.65: FC, 90°, portion quartz filled 30.83: J, 30°, Pl, Sm, Vr 30.93-31.00: J, 30°, St, Ro, Vr 31.12-31.24: J, St, Ro, Cn 31.51-31.61: J, 60°, Pl, Sm, 2 mm, black sandy clay infill 31.56-31.61: J, 45°, Pl, Sm, 2 mm, sandy clay infill 31.72-31.77: J, 45°, Pl, Sm, Cn		
1	1100	70	33 — - - - 34 — - -							33.28-33.36: FC, St, Ro, Cn, possible soft grey clay infill but washed out 34.21-34.25: J, 50°, St, Ro, 3 mm, weathered argillite bed? 34.34-34.47: J, 70°, St, Sm, Cn 34.51-34.69: J, 70°, St, Ro, Cn		
_			35 —							35.49-35.62: J, 80°, Un, Ro, Cn 35.86-35.90: J, 40°, Pl, Sm, Cn 36.07-36.10: J, 40°, Pl, Sm, Cn 36.25-36.28: J, 35°, Pl, Sm, Vr, possible quartz		
1	100	65	37 — - - - - 38 —							37.88-38.10: J, 55°, Un, Ro, Cn		
1	100	100	39 — - - -									



Aecom Australia Pty Ltd

Cross River Rail

CLIENT:

PROJECT:

REPORT OF BOREHOLE: CRR 203

SHEET: 6 OF 6

CHECKED: NK

COORDS: 502763.00 m E 6961178.00 m N MGA94 56

SURFACE RL: DATUM: AHD

LOCATION: Margaret St, W of Albert St INCLINATION: -90° JOB NO: 107632034 HOLE DEPTH: 44.55 m DRILL RIG: FOX B40 CONTRACTOR: Schneider Drilling Pty Ltd LOGGED: MGM DATE: 2/8/10

DATE: 18/10/10

Drilling Drilling						Field Material Description				Defect Information					_
METHOD WATER TCR		RQD (SCR)	DEPTH (metres)	<i>DEPTH</i> RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH IS ₍₅₀₎ MPa		DEFECT DESCRIPTION & Additional Observations		un	fect: it me engt	s per etre th)	r
	100	100	40 —			META SILTSTONE fine grained, grey, metasiltstone with white quartz bands and occasional bands of dark grey to black argillite	FR								
	100	45	42 —	- - - - - -											
				44.55		END OF BOREHOLE @ 44.55 m NW corner of Albert St and Margaret St, Brisbane								+	
			45 —	-											
			47	-											
			48 —	- - - - -											
			50 —	This re	eport of	borehole must be read in conjunction with accomposes only, without attempt to assess possible con	panyir tamir	ng r	notes and		P glN				-



REPORT OF CORE PHOTOGRAPHS: CRR 203

COORDS: 502763 m E 6961178 m N SURFACE RL: DATUM: AHD

INCLINATION: -90° HOLE DEPTH: 44.55 m DEPTH RANGE: 4.5-22.0 m DRILL RIG: Fox B40

DRILLER: Schneider Drilling Pty Ltd DATE: 2/08/10 LOGGED: MGM CHECKED: NK DATE: 4/10/10

CLIENT: Aecom Australia Pty Ltd PROJECT: Cross River Rail LOCATION: Margaret St W off Albert St

JOB NO: 107632034



REPORT OF CORE PHOTOGRAPHS: CRR 203

CLIENT: Aecom Pty Ltd
PROJECT: Cross River Rai

PROJECT: Cross River Rail LOCATION: Margaret St W off Albert St

JOB NO: 107632034

COORDS: 502763 m E 6961178 m N SURFACE RL: DATUM: AHD

INCLINATION: -90° HOLE DEPTH: 44.55m DEPTH RANGE: 22.0-40.0 m

DRILL RIG: Fox B40

DRILLER: Schneider Drilling Pty Ltd
LOGGED: MGM DATE: 2/08/10
CHECKED: NK DATE: 4/10/2010





REPORT OF CORE PHOTOGRAPHS: CRR 203

COORDS: 502763 m E 6961178 m N SURFACE RL: DATUM: AHD

INCLINATION: -90° HOLE DEPTH: 44.55m DEPTH RANGE: 40.0-44.55 m

DRILL RIG: Fox B40

DRILLER: Schneider Drilling Pty Ltd LOGGED: MGM DATE: 2/08/10 CHECKED: NK DATE: 4/10/2010

CLIENT: Aecom Pty Ltd
PROJECT: Cross River Rail
LOCATION: Margaret St W off Albert St
JOB NO: 107632034





Aecom Australia Pty Ltd

Cross River Rail

CLIENT:

JOB NO:

PROJECT:

LOCATION:

REPORT OF STANDPIPE INSTALLATION: CRR 203

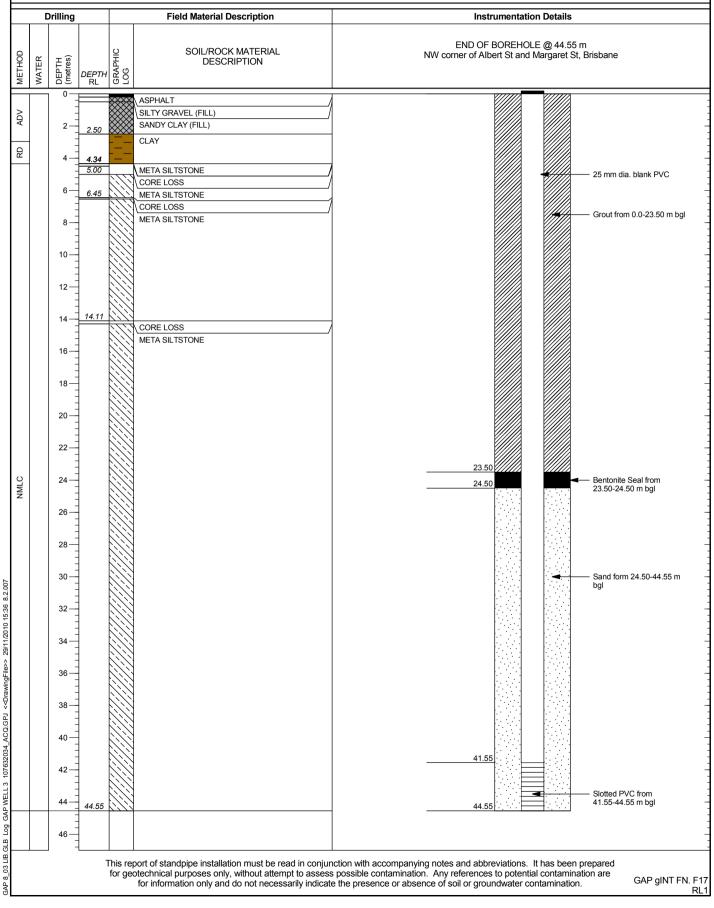
COORDS: 502763.00 m E 6961178.00 m N MGA94 56

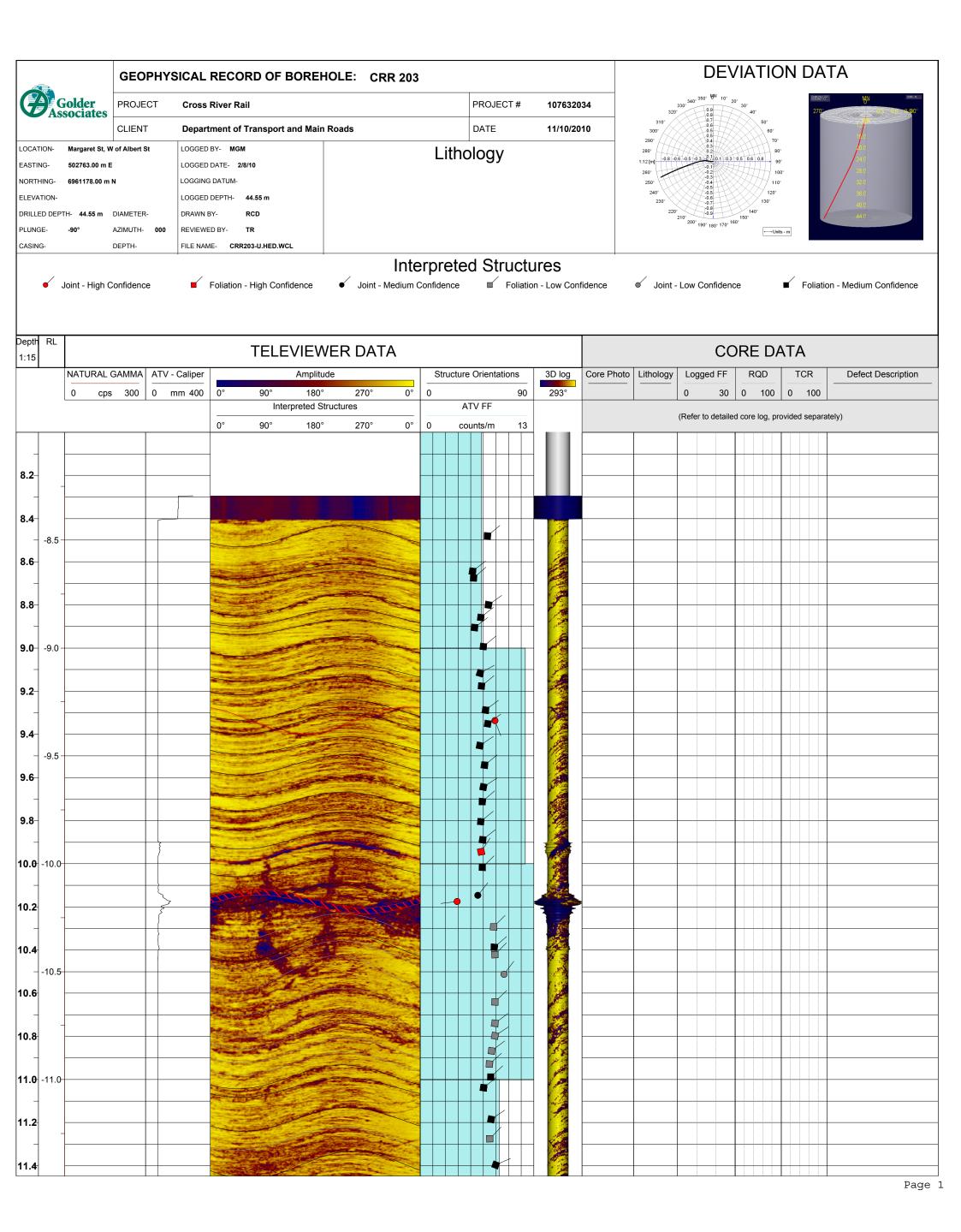
SURFACE RL: DATUM: AHD

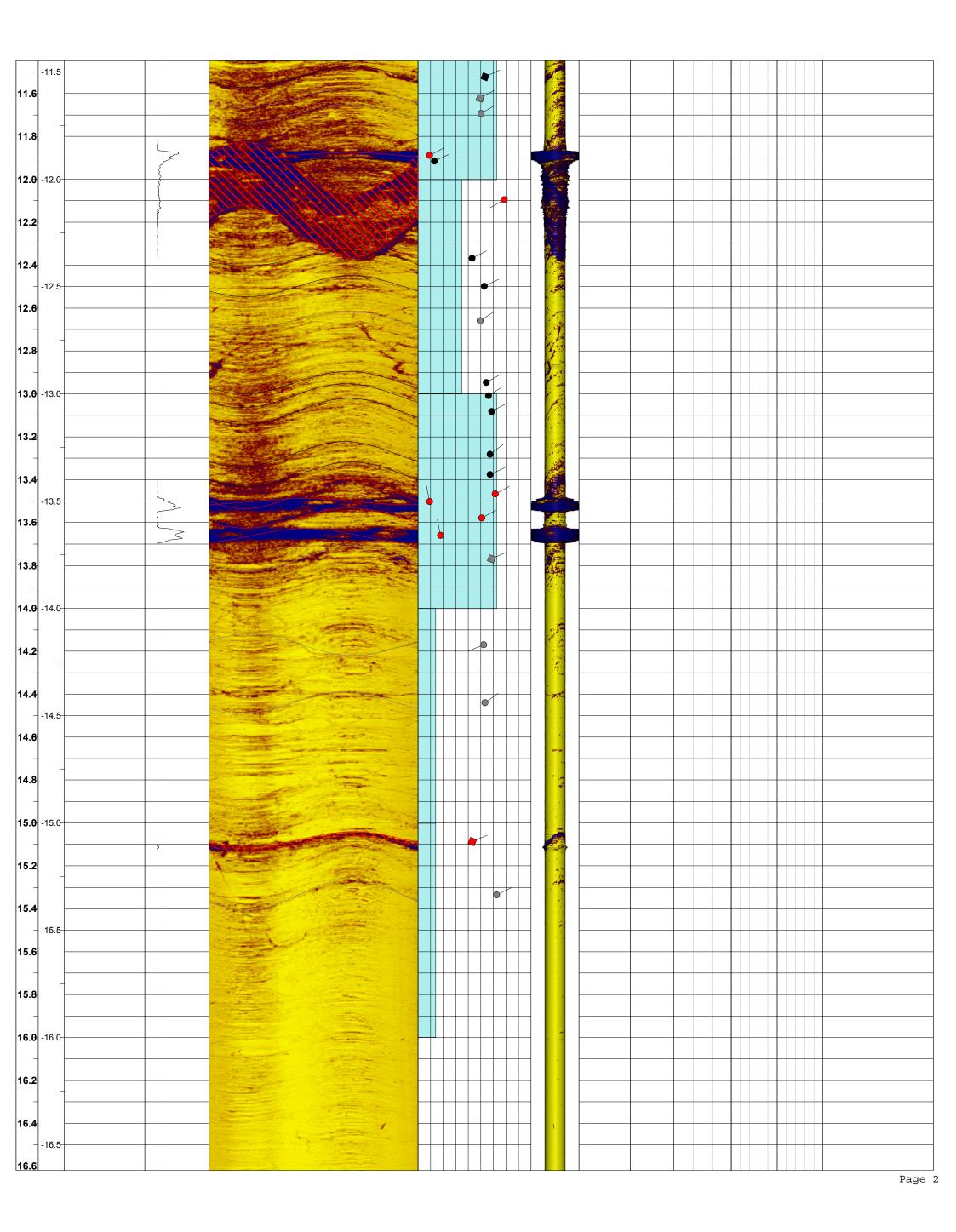
Margaret St, W of Albert St INCLINATION: -90° 107632034 HOLE DEPTH: 44.55 m

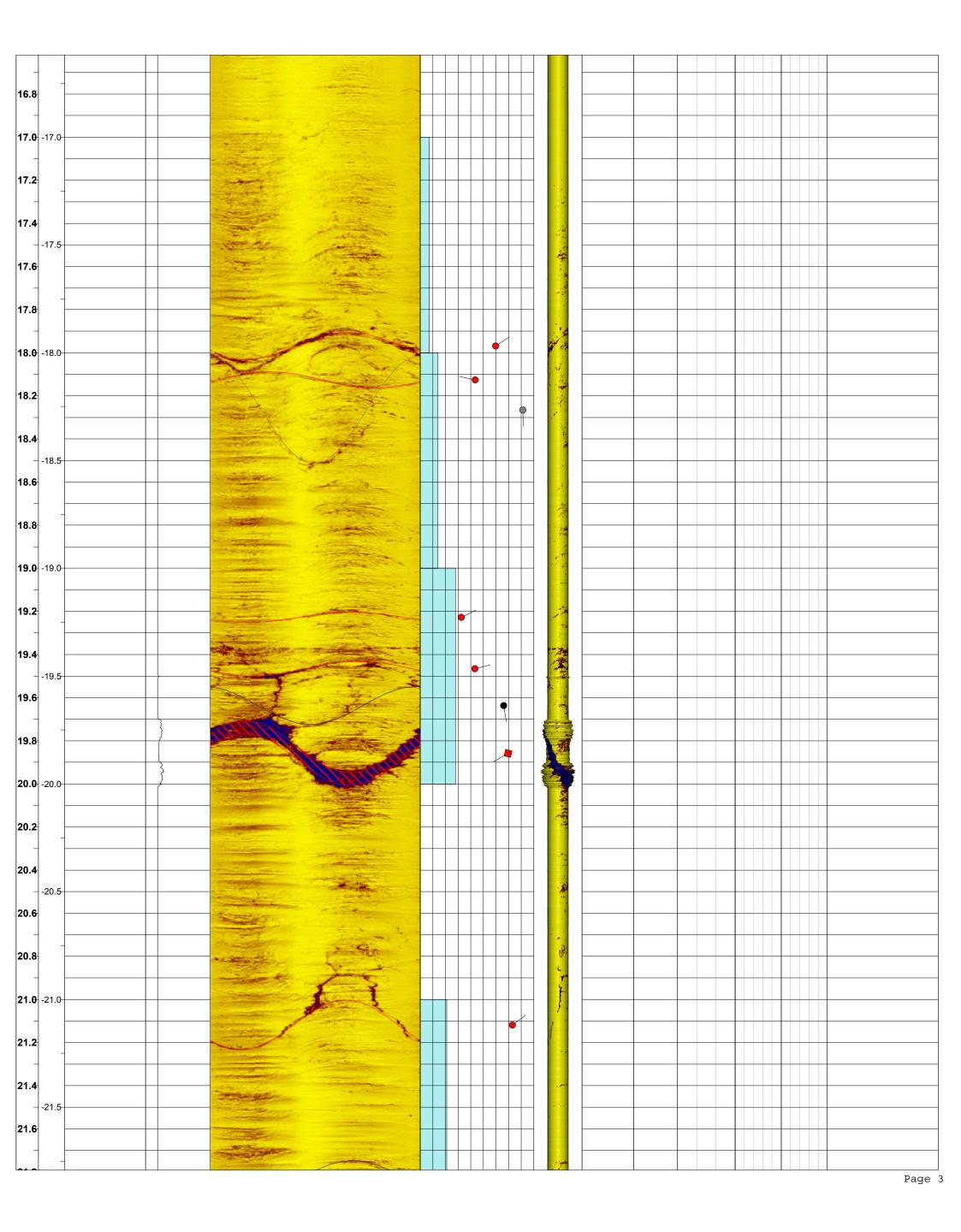
SHEET: 1 OF 1
DRILL RIG: FOX B40

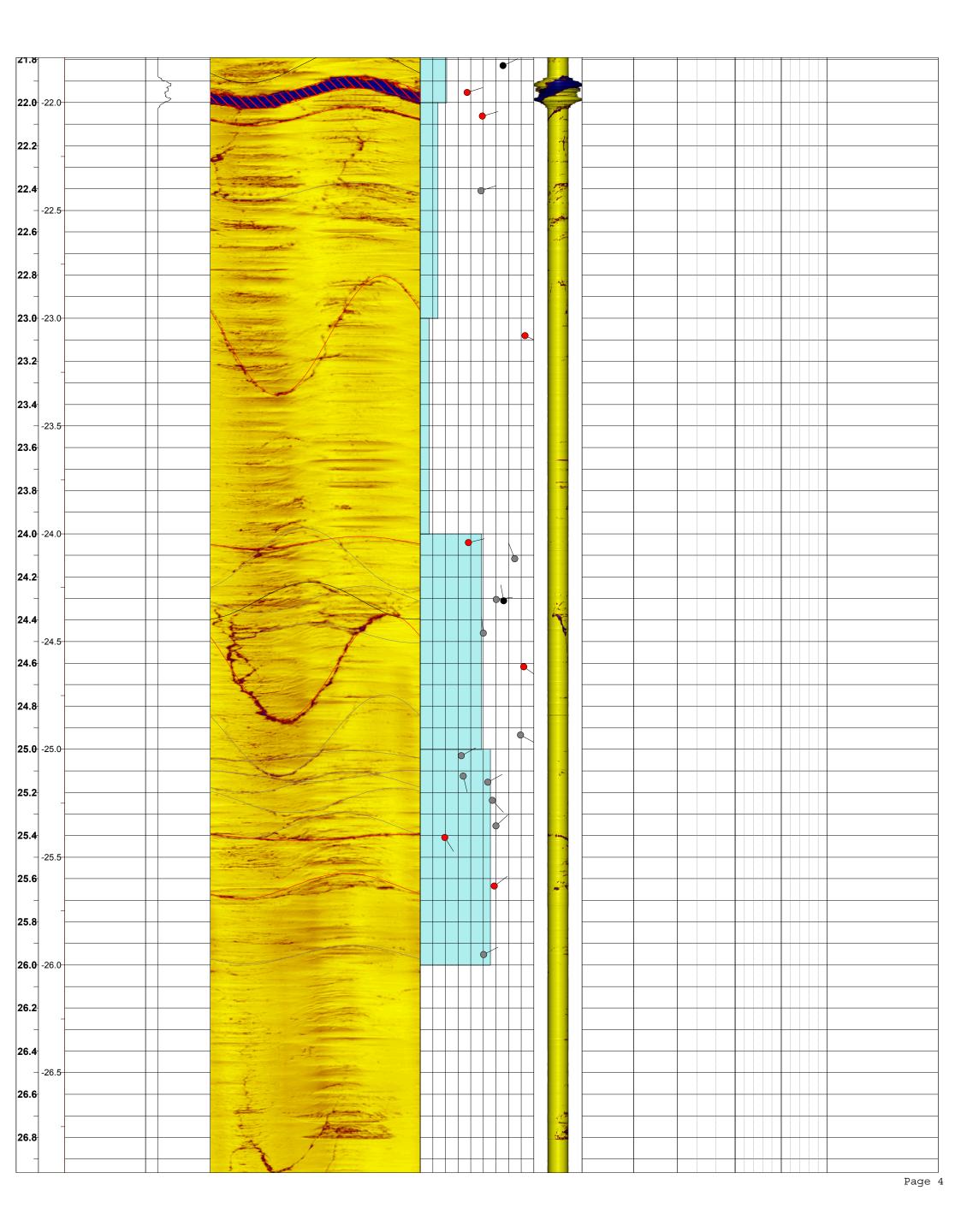
CONTRACTOR: Schneider Drilling Pty Ltd LOGGED: MGM DATE: 2/8/10 CHECKED: NK DATE: 18/10/10

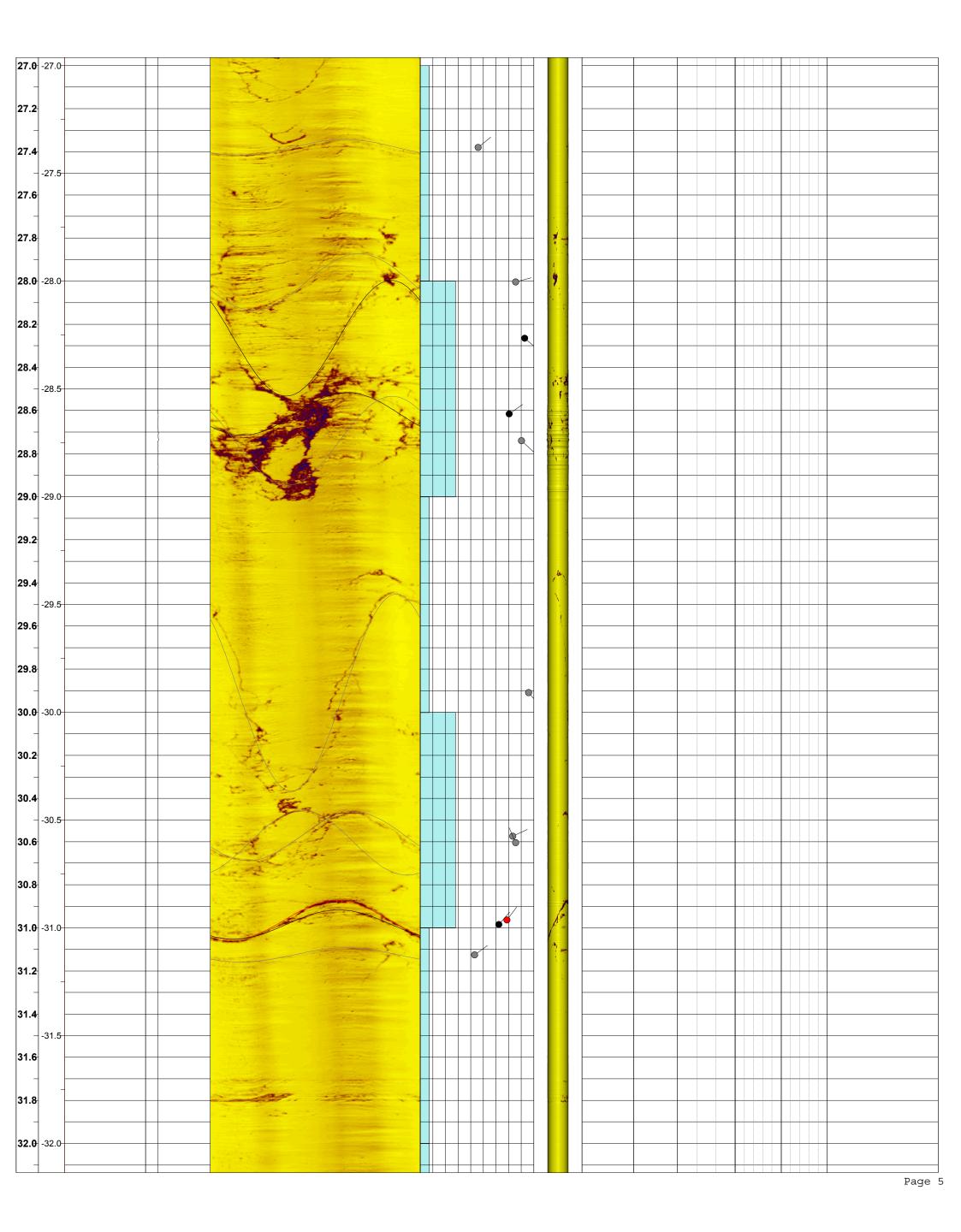


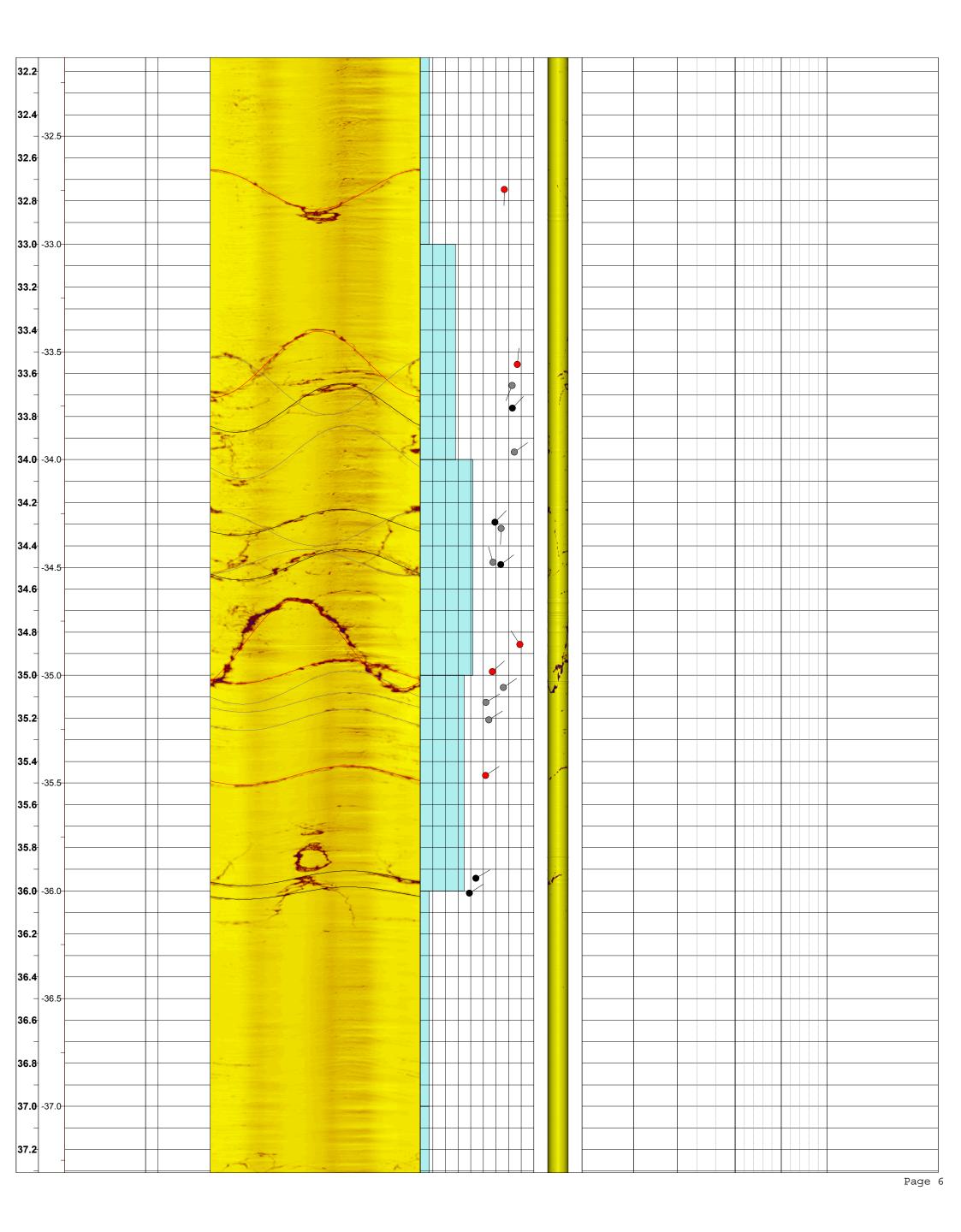


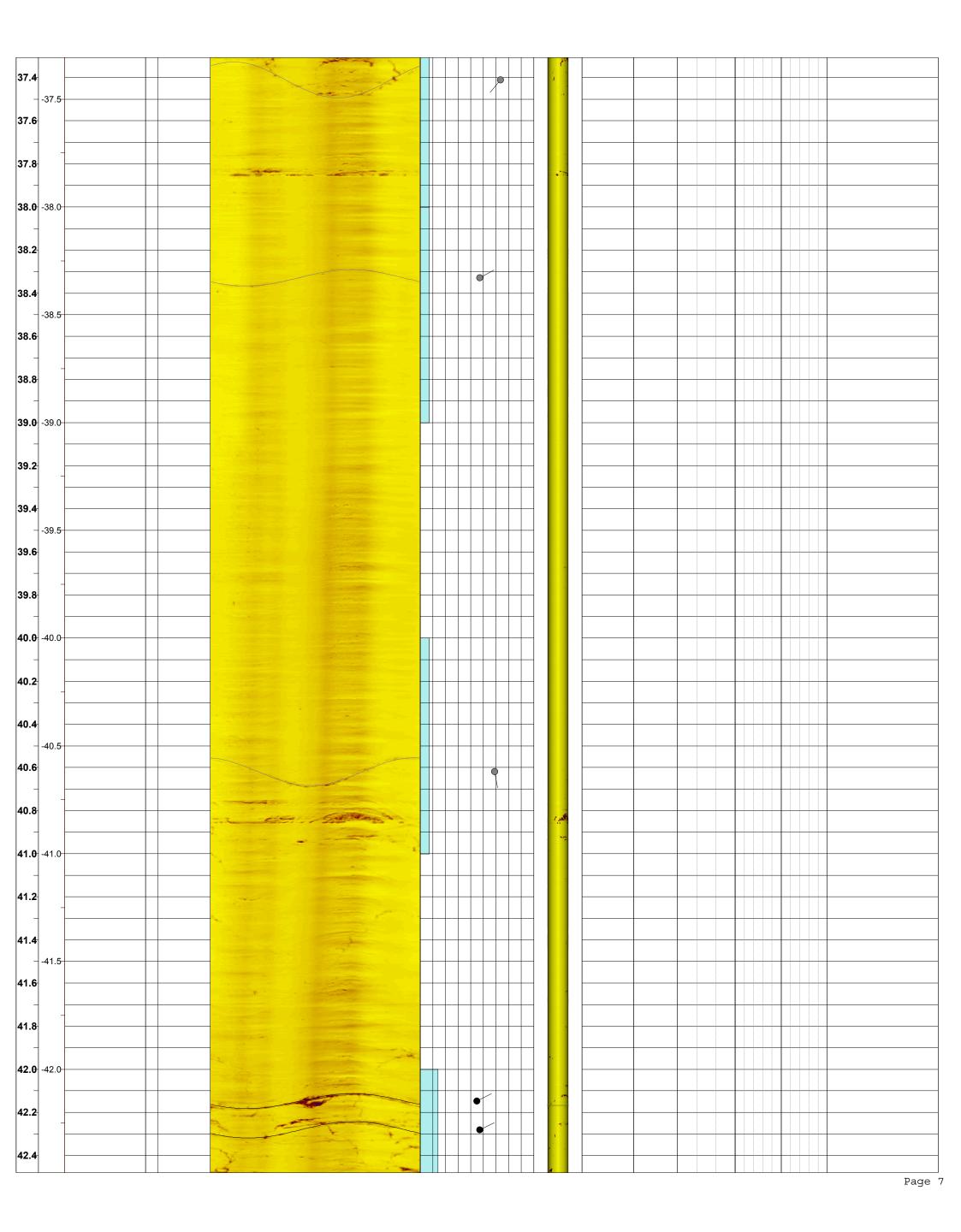


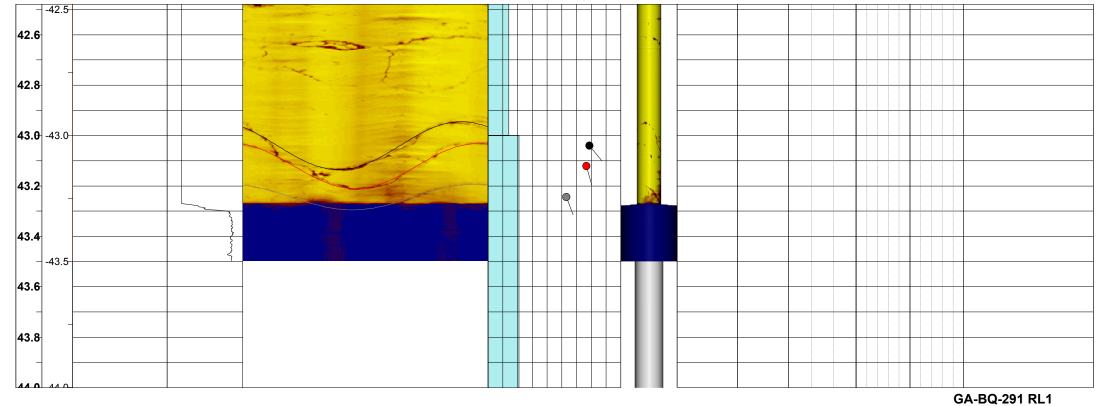




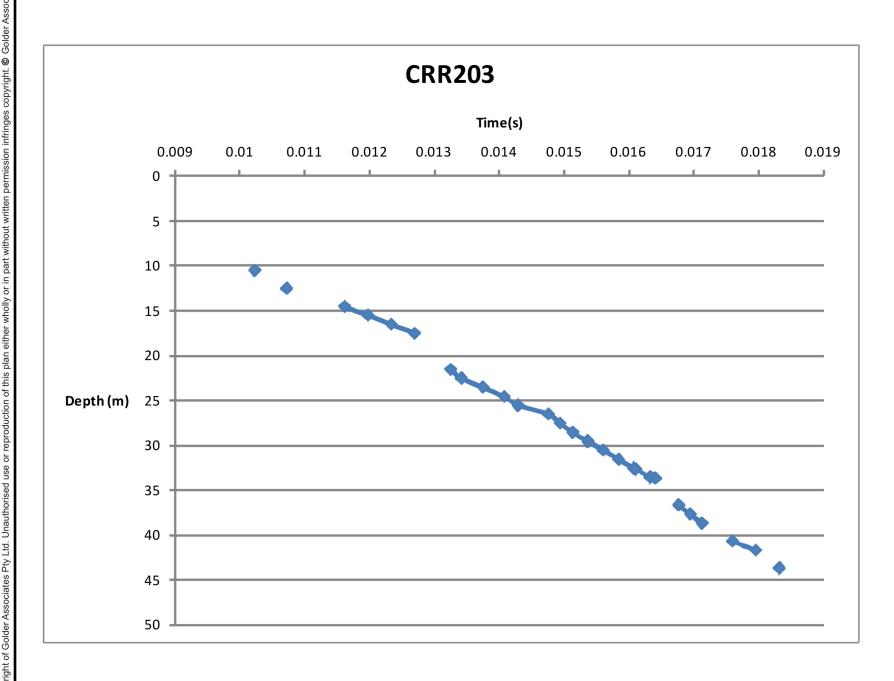








Issued 31/03/10



Note:

* - 1st arrival not clear due to noise

Calculations done without accounting for borehole deviation

Geophone	Depth (m)	Interval velocity (P wave m/s)
from	to	
10.6	11.6	*
11.6	12.6	*
12.6	13.6	*
13.6	14.6	*
14.6	15.6	2778
15.6	16.6	2781
16.6	17.6	2783
17.6	18.6	*
18.6	19.6	*
19.6	20.6	*
20.6	21.6	*
21.6	22.6	5958
22.6	23.6	3045
23.6	24.6	3046
24.6	25.6	4648
25.6	26.6	2134
26.6	27.6	5473
27.6	28.6	5272
28.6	29.6	4207
29.6	30.6	4208
30.6	31.6	4208
31.6	32.6	4209
32.6	32.7	4209
32.7	33.6	3965
33.6	33.7	1266
33.7	34.7	*
34.7	35.7	*
35.7	36.7	*
36.7	37.7	5484
37.7	38.7	5485
38.7	39.7	*
39.7	40.7	*
40.7	41.7	2745
41.7	42.7	*
42.7	43.7	*

Golder
Associates

		epartment o ad Main Roa	•	Cross River Rail									
	DRAWN	GDK	DATE OCT 4	TITLE	CRR203 VSP								
es	CHECKED	TR	DATE	51111200 VOI									
	SCALE	NTS		PROJECT No	000-107632034	FIGURE No	REV No	А3					

