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CLIENT:

REPORT OF BOREHOLE: CRR 212

SHEET: 1 OF 5 COORDS: 501997.65 m E 6956616.82 m N MGA94 56 DRILL RIG: FOX B40

Aecom Australia Pty Ltd PROJECT: Cross River Rail SURFACE RL: 3.42 m DATUM: AHD CONTRACTOR: Schneider Drilling Pty Ltd LOCATION: Fairfield and Park Rd INCLINATION: -90° LOGGED: RCD DATE: 26/8/10 JOB NO: 107632034 DATE: 18/10/10 HOLE DEPTH: 35.00 m CHECKED: NK

ling		Sampling				Field Material Desc	•		
DEPTH (metres)	<i>PTH</i> RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
0 3 0.	3.42 3.20 3.22			00000	CI GP	Sandy CLAY Topsoil medium plasticity, dark brown Sandy GRAVEL Ash fine to medium grained, black		L	
	.42	2, 2, 3			СН	Sandy CLAY high plasticity, dark grey with orange brown	M	F - St	
	.42				СН	CLAY high plasticity, pale grey			
3 - -		PP = 90 KPa						F	
4 - 3	0.48	6, 10, 18			SC	Clayey SAND fine to coarse grained, pale grey and pale orange brown, trace coarse gravel, Residual soil			
- - 5 -							•	MD	
- - 6- -						For Continuation Refer to Sheet 2		VD	
- - - 7									
- - - 8									
9									
	0 3 3 3 3 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 3.42 0.20 3.22 1 1.00 1 2.42 2 2.00 1.42 3 - 3.90 40.48 5	Time	1 - 1.00 2.42 SPT 1.00-1.45 m 2, 2, 3 N=5 2 - 2.00 1.42 U50 2.50-2.95 m PP = 90 kPa 3 - 3.90 40.48 SPT 4.00-4.45 m 6, 10, 18 N=28 5 - SPT 5.50-5.56 m 30/60 mm	0 3.42 0.20 3.22	0 3.42	C Sandy CLAY Topsel medium plasticity, dark brown Sandy GLAY Topsel medium plasticity, dark brown Sandy GLAY Topsel medium plasticity, dark grey with orange brown Sandy GLAY Sandy CLAY San	0	1



Cross River Rail

CLIENT:

PROJECT:

REPORT OF BOREHOLE: CRR 212

SHEET: 2 OF 5

COORDS: 501997.65 m E 6956616.82 m N MGA94 56

DRILL RIG: FOX B40 SURFACE RL: 3.42 m DATUM: AHD CONTRACTOR: Schneider Drilling Pty Ltd

LOCATION: Fairfield and Park Rd INCLINATION: -90° JOB NO: 107632034 HOLE DEPTH: 35 00 m LOGGED: RCD DATE: 26/8/10 DATE: 18/10/10 CHECKED: NK

JOB NO: 1076	D: 107632034 HOLE DEPTH: 35.00 m						CHECKED: NK DATE: 18/10/10					
Drilling		Field Material Description					Defect Information					
	SE RL	ROCK / SOIL MATERIAL DESCRIPTION			NEATHERD SLEED SLEED STRENGTH IS (50) Mba		DEFECT DESCRIPTION & Additional Observations	FRACTI FREQUE (Defects unit me lengtl	etre h)			
95 90 100 95	0 -	becoming coarse grained, some minor conglomerate bands, grey multiple black siltstone inclusions fine grained	DW SW				6.11: DS, 43°, PI, Ro, Ct, 2 mm, clay & rock fragments 6.40: DS, 10°, Un, Ro, Ct, 40 mm, clay & rock fragments 7.00: B, 17°, Un, Ro, Cn					
1	geotechnical p	of borehole must be read in conjunction with accompourposes only, without attempt to assess possible connation only and do not necessarily indicate the preser	ntamir	natio	n. A	ny r	eferences to potential contamination are for	JINT FN.	F02b RL3			



REPORT OF BOREHOLE: CRR 212

COORDS: 501997.65 m E 6956616.82 m N MGA94 56

SHEET: 3 OF 5 DRILL RIG: FOX B40

PROJECT: Cross River Rail
LOCATION: Fairfield and Park Rd

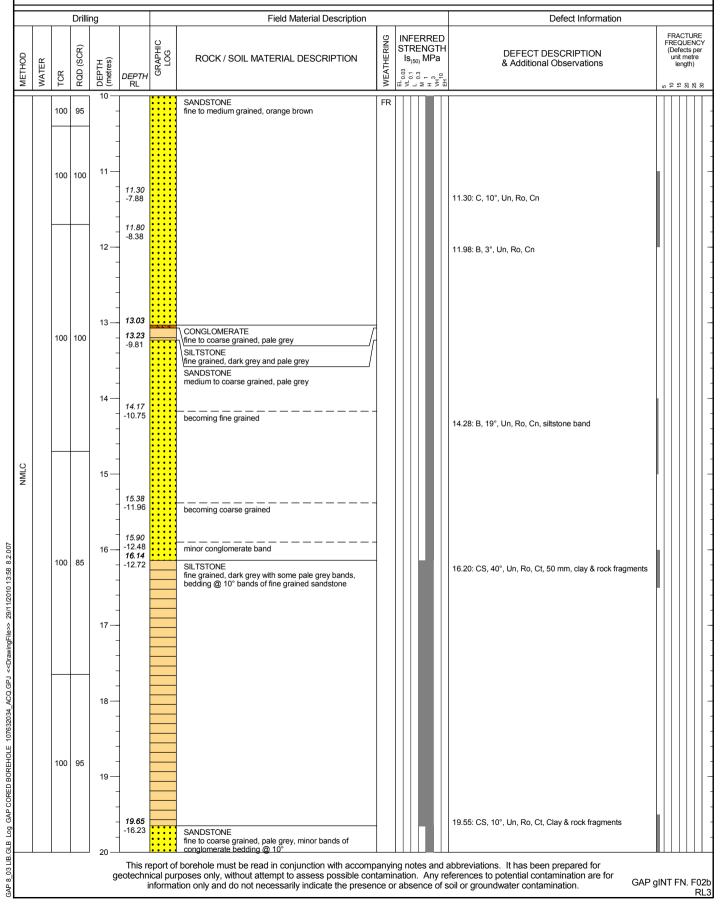
SURFACE RL: 3.42 m DATUM: AHD

CONTRACTOR: Schneider Drilling Pty Ltd LOGGED: RCD DATE: 26/8/10

LOCATION: Fairfield and Park Rd INCLINATION: -90°

JOB NO: 107632034 HOLE DEPTH: 35.00 m

LOGGED: RCD DATE: 26/8/10 CHECKED: NK DATE: 18/10/10





Cross River Rail

CLIENT:

PROJECT:

REPORT OF BOREHOLE: CRR 212

SHEET: 4 OF 5

COORDS: 501997.65 m E 6956616.82 m N MGA94 56

DRILL RIG: FOX B40 SURFACE RL: 3.42 m DATUM: AHD CONTRACTOR: Schneider Drilling Pty Ltd

LOCATION: Fairfield and Park Rd INCLINATION: -90° JOB NO: 107632034 HOLE DEPTH: 35 00 m LOGGED: RCD DATE: 26/8/10 DATE: 18/10/10 CHECKED: NK

)B NC): 	107632034 HOLE DEPTH: 35.00 m					CHECKED: NK DATE: 18/10/10						
			Drilli	ng			Field Material Description	_			Defect Information			
METHOD	WATER	TCR	RQD (SCR)	DEPTH (metres)	<i>DEPTH</i> RL	GRAPHIC LOG				ERRED RENGTH (50) MPa	DEFECT DESCRIPTION & Additional Observations	FRACTURE FREQUENC' (Defects per unit metre length)		
NMLC		100	95	20 —			SANDSTONE fine to coarse grained, pale grey, minor bands of conglomerate bedding @ 10°	21.40: B, 11°, Un, Ro, Cn, siltstone band 21.87: B, 11°, Un, Ro, Cn, sitstone band						
		100	100	24 —										
		100	75	27 —	27.10 27.28 -23.86 -23.93 27.65 -24.23	0	8 6 6 3	663		SILTSTONE Sine grained, pale grey, with some coarse grains CONGLOMERATE				27.65: CS, 0°, Pl, Sm, Ct, 30 mm, clay & rock fragments 27.69: CS, 2°, Pl, Sm, Ct, 60 mm, clay & rock fragments 27.90: CS, 10°, Un, Ro, Ct, 100 mm, clay & rock fragments 28.40: DS, 0°, Un, Sm, Ct, 25 mm, clay
		100	90	29 — - -	29.15 -25.73 29.60		pale grey	-			28.63: DS, 0°, PI, Ro, Ct, 15 mm, clay 28.74: DS, 3°, PI, Sm, Ct, 10 mm, clay 28.80: DS, PI, SI, Ct, 10 mm, clay			
		1			-26.18		grey	1	1				1.1	



Cross River Rail

CLIENT:

PROJECT:

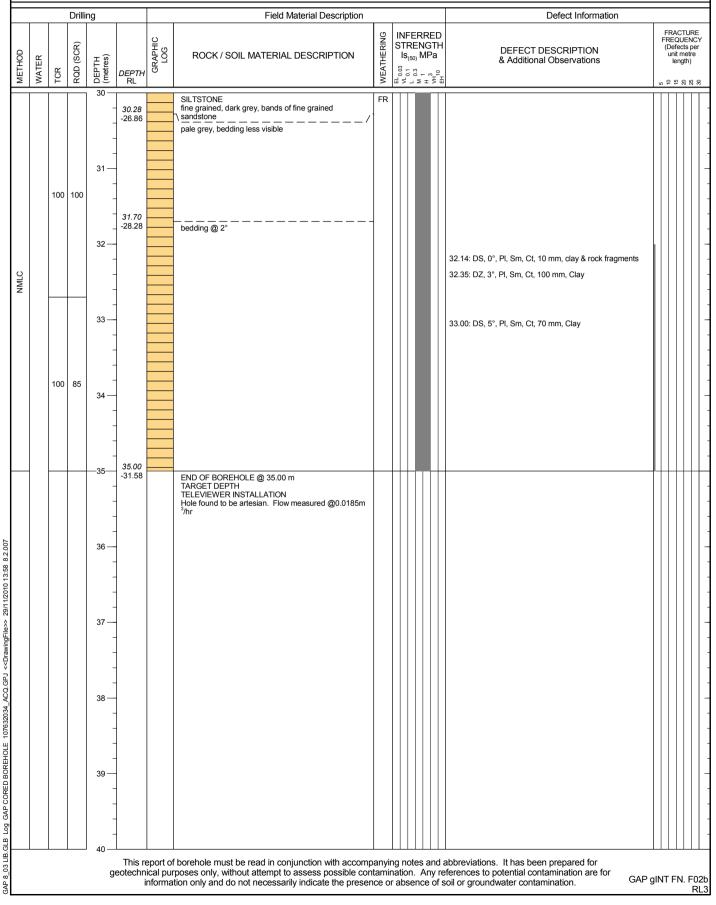
REPORT OF BOREHOLE: CRR 212

SHEET: 5 OF 5

COORDS: 501997.65 m E 6956616.82 m N MGA94 56

DRILL RIG: FOX B40 SURFACE RL: 3.42 m DATUM: AHD CONTRACTOR: Schneider Drilling Pty Ltd

LOCATION: Fairfield and Park Rd INCLINATION: -90° JOB NO: 107632034 HOLE DEPTH: 35.00 m LOGGED: RCD DATE: 26/8/10 CHECKED: NK DATE: 18/10/10





CLIENT: Aecom Australia Pty Ltd

PROJECT: Cross River Rail

JOB NO: 107632034

LOCATION: Fairfield / Park Rd

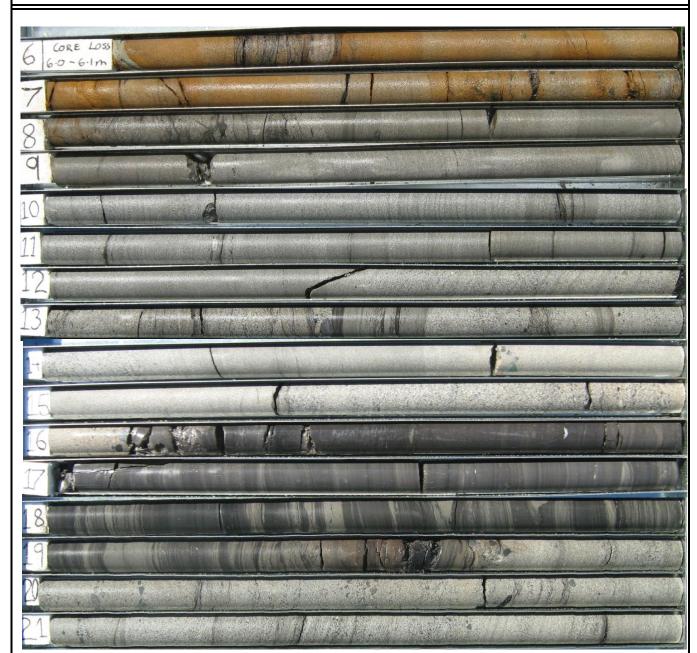
REPORT OF CORE PHOTOGRAPHS: CRR 212

COORDS: 0501997 m E 6956616 m N SURFACE RL: 3.42 DATUM: AHD

INCLINATION: -90° HOLE DEPTH: 35.2 m

DEPTH RANGE: 6.0-22.0 m DRILL RIG: Fox B40

DRILLER: Schneider Drilling Pty Ltd
LOGGED: RCD DATE: 26/08/10
CHECKED: NK DATE: 4/10/10





REPORT OF CORE PHOTOGRAPHS: CRR 212

CLIENT: Aecom Australia Pty Ltd PROJECT: Cross River Rail

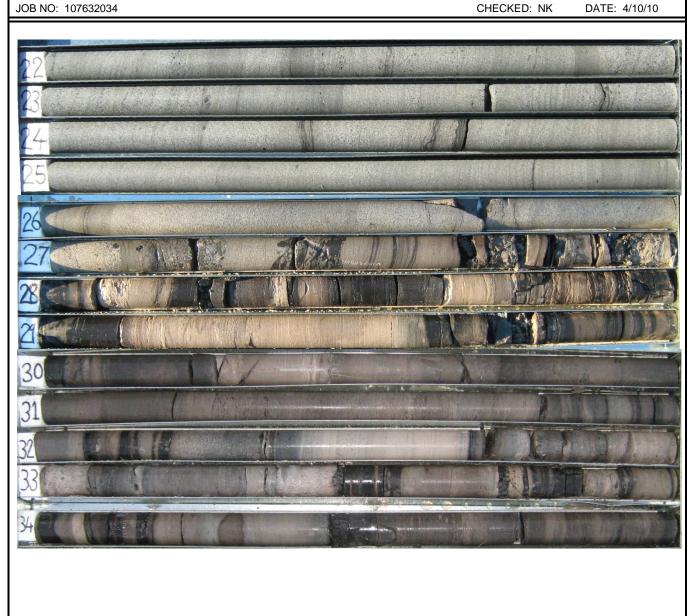
LOCATION: Fairfield / Park Rd

COORDS: 0501997 m E 6956616 m N SURFACE RL: 3.42 DATUM: AHD

INCLINATION: -90° HOLE DEPTH: 35.2 m DEPTH RANGE: 22.0-35.2 m

DRILL RIG: Fox B40

DRILLER: Schneider Drilling Pty Ltd LOGGED: RCD DATE: 26/08/10 CHECKED: NK DATE: 4/10/10





Cross River Rail

CLIENT:

PROJECT:

REPORT OF STANDPIPE INSTALLATION: CRR 212

COORDS: 501997.65 m E 6956616.82 m N MGA94 56

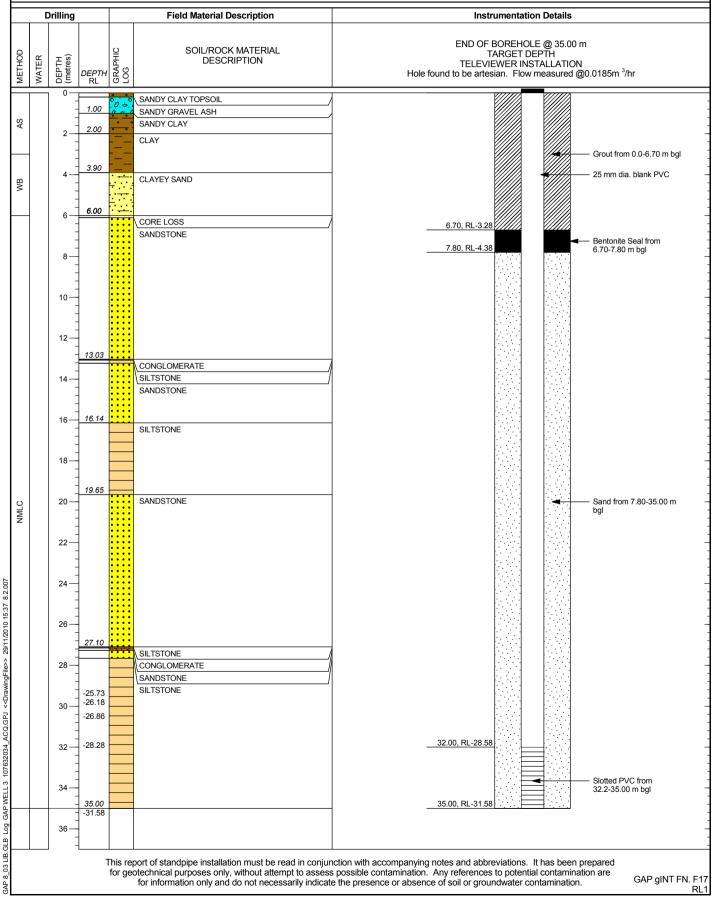
SURFACE RL: 3.42 m DATUM: AHD

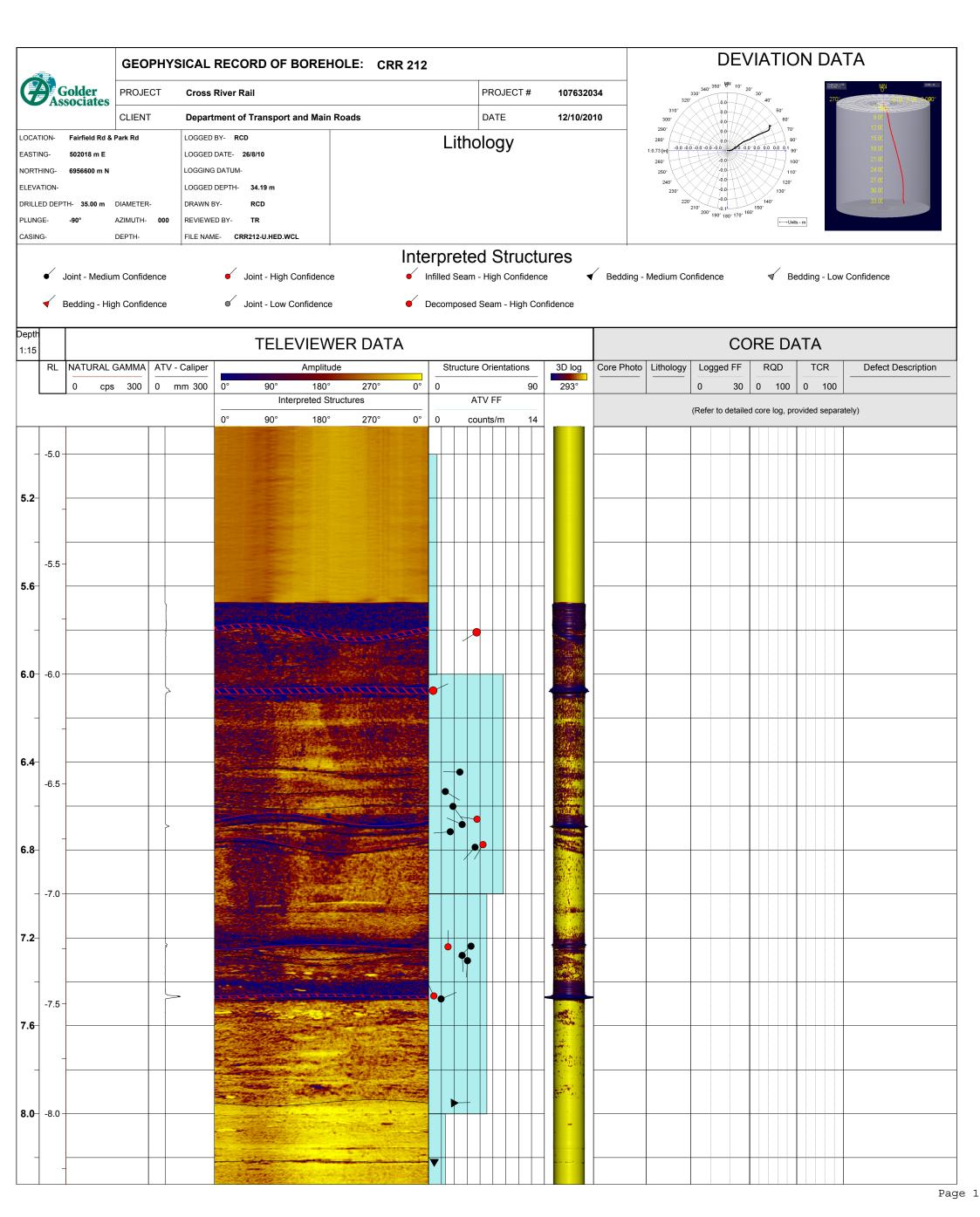
LOCATION: Fairfield and Park Rd INCLINATION: -90°

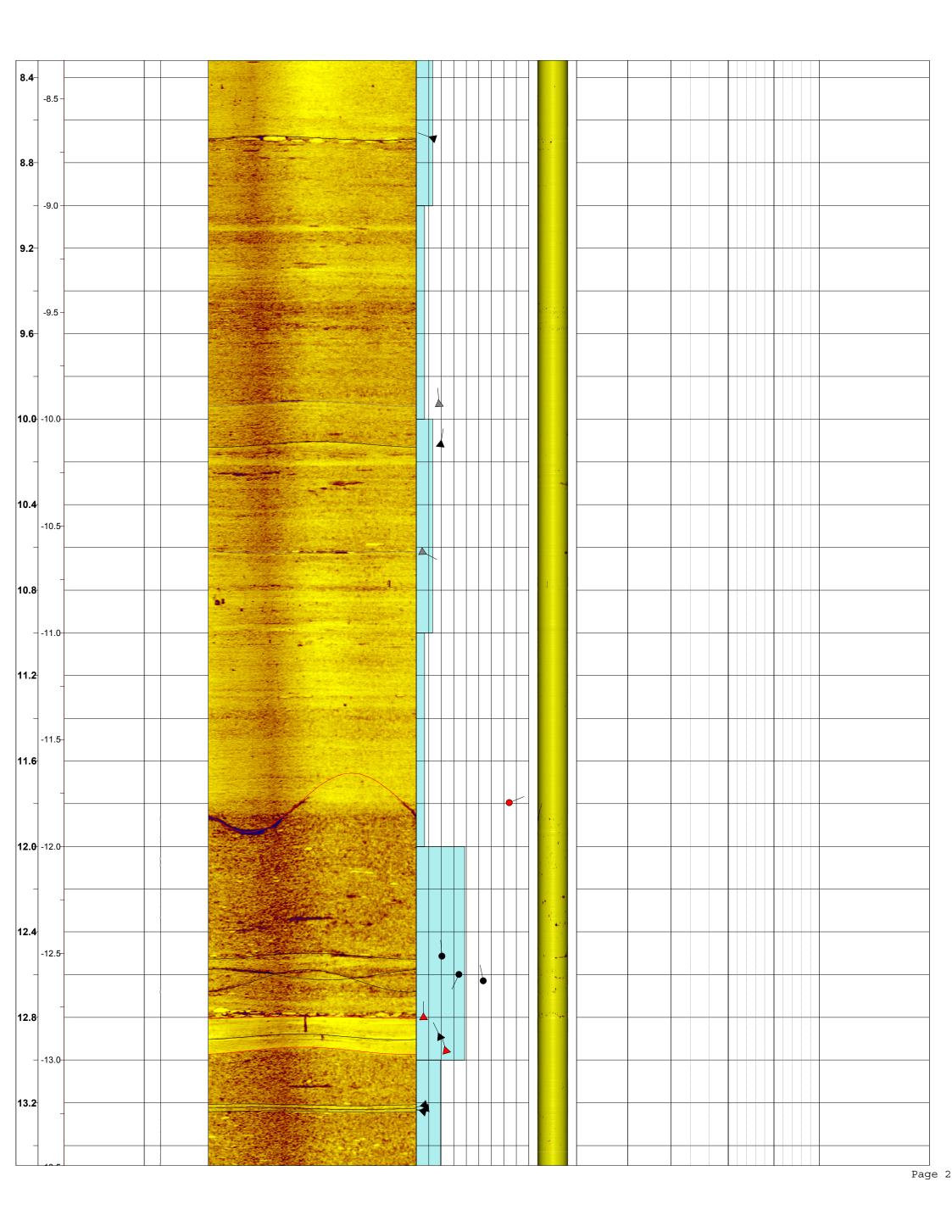
JOB NO: 107632034 HOLE DEPTH: 35.00 m

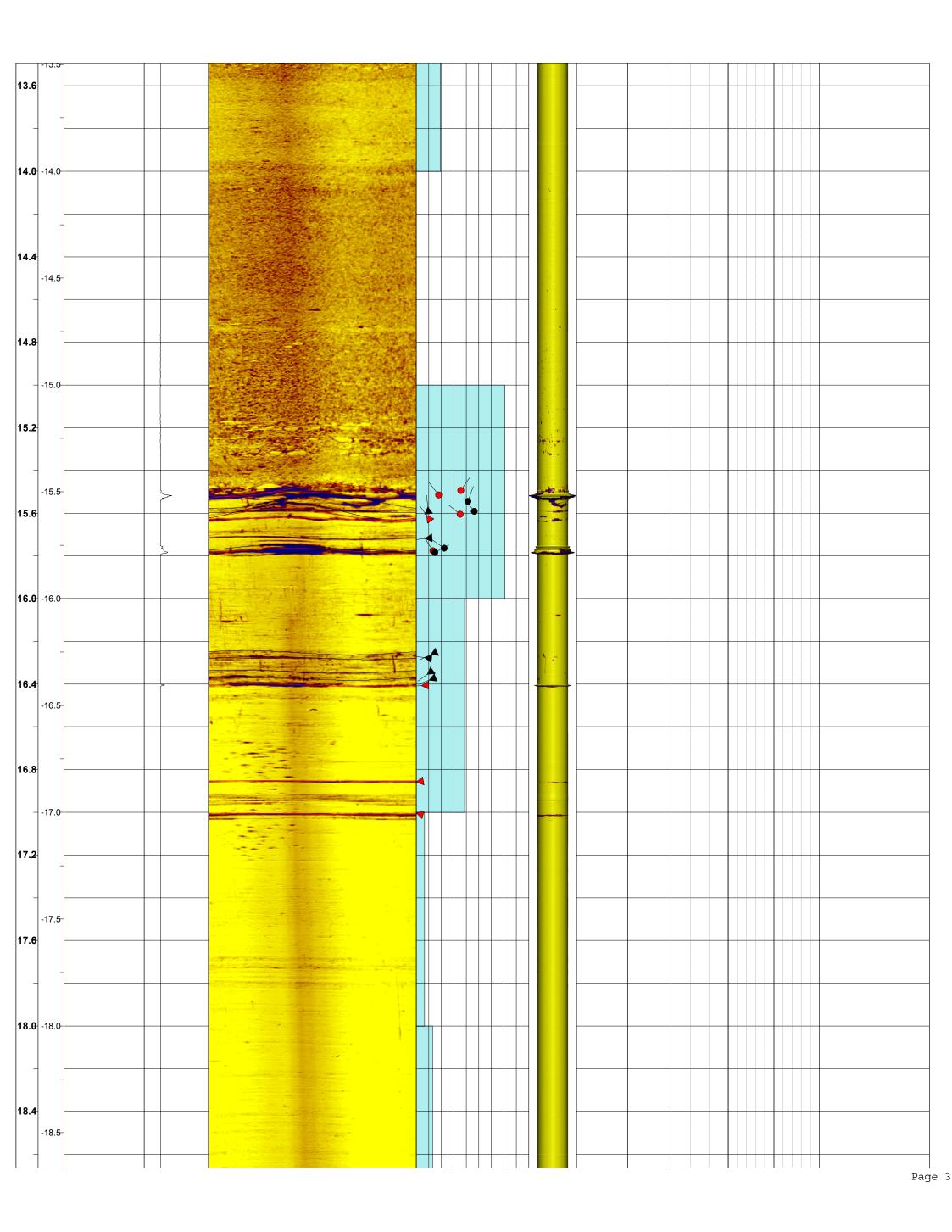
SHEET: 1 OF 1 DRILL RIG: FOX B40

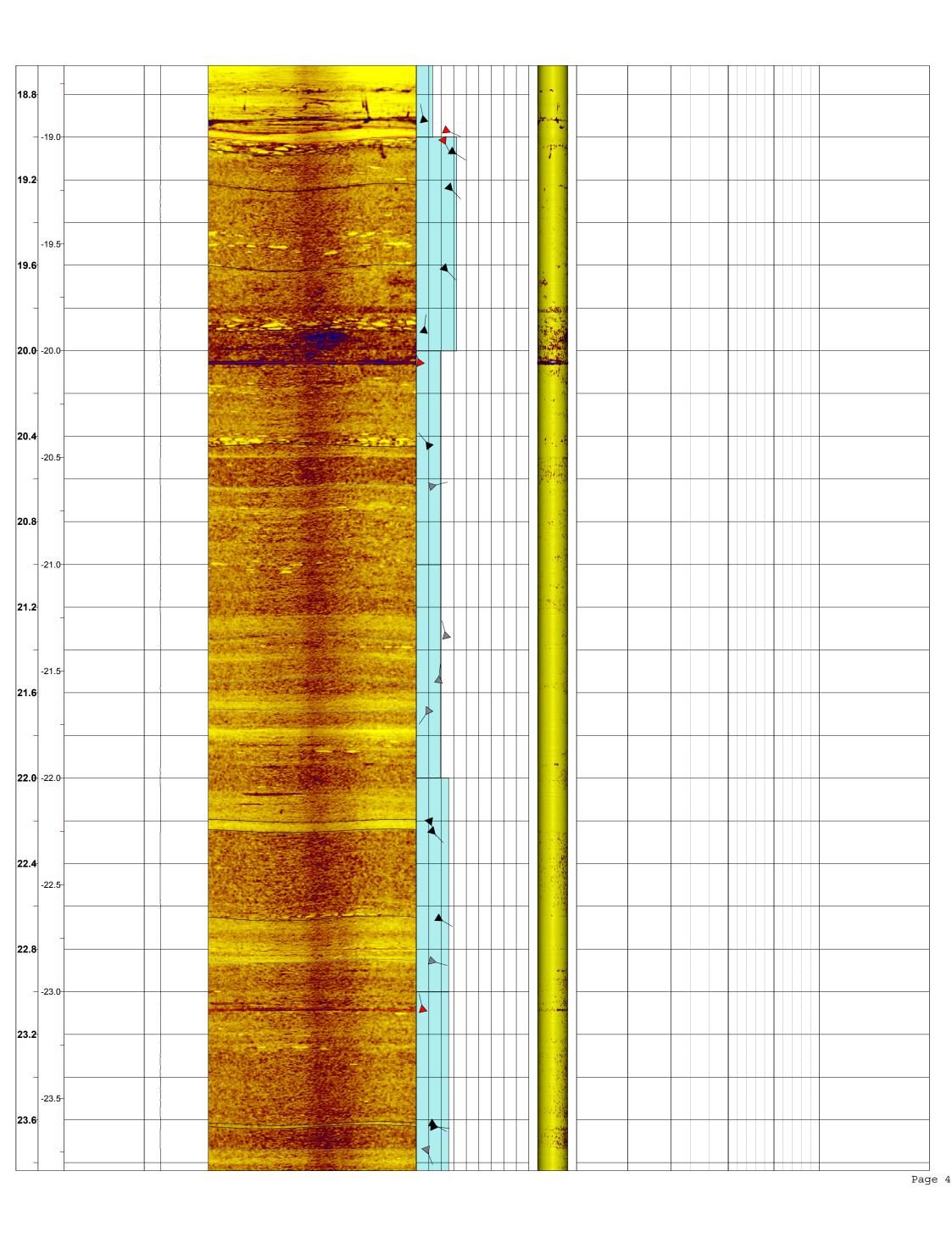
CONTRACTOR: Schneider Drilling Pty Ltd LOGGED: RCD DATE: 26/8/10 CHECKED: NK DATE: 18/10/10

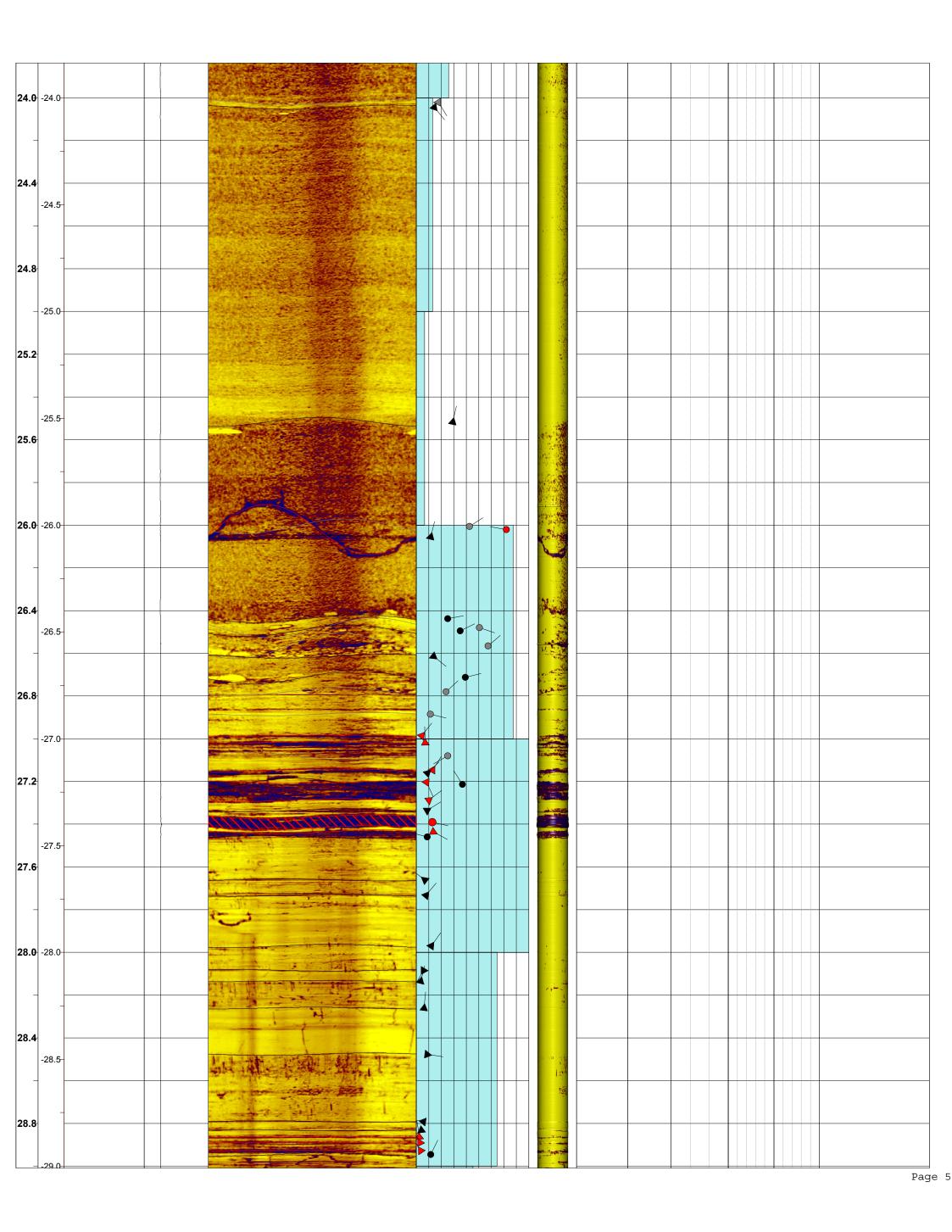


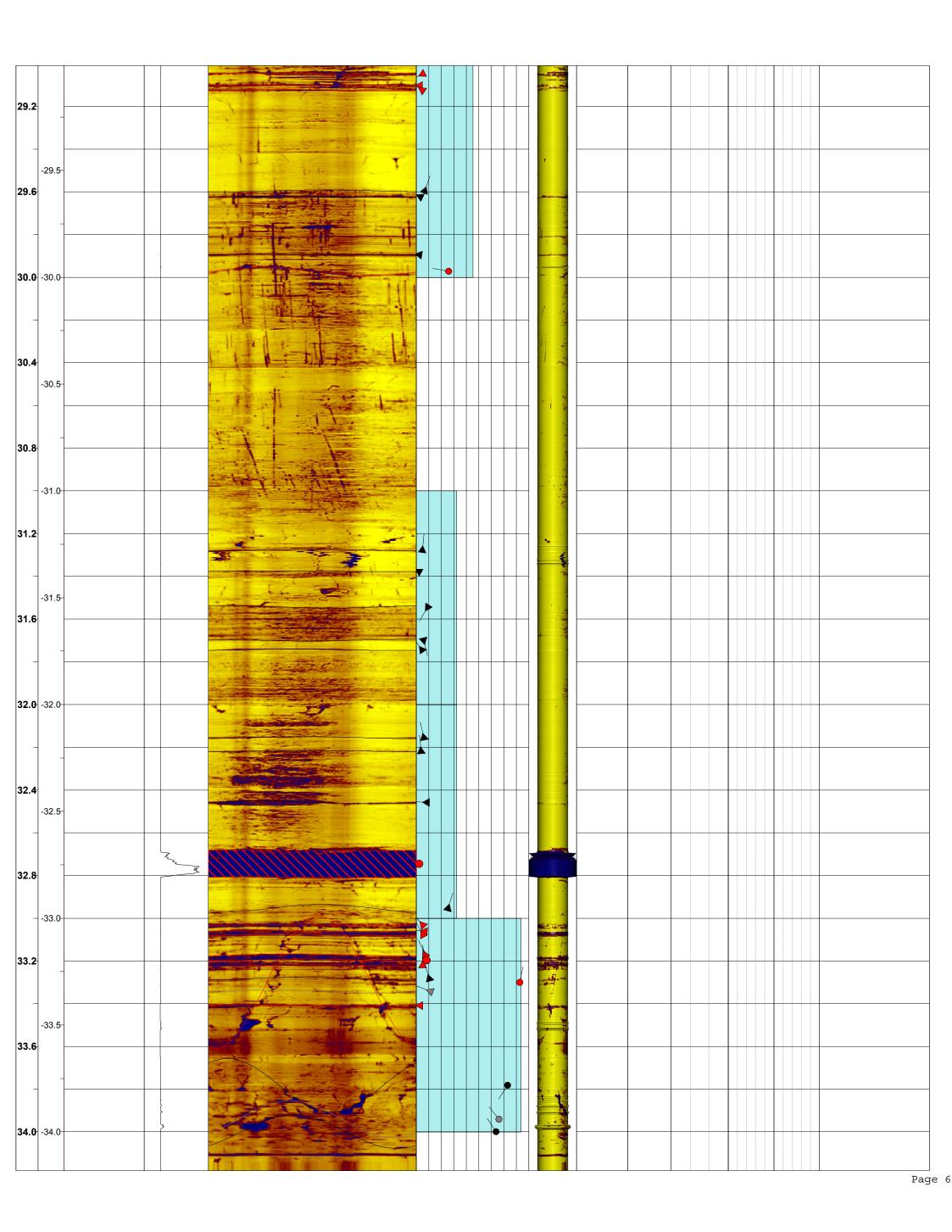


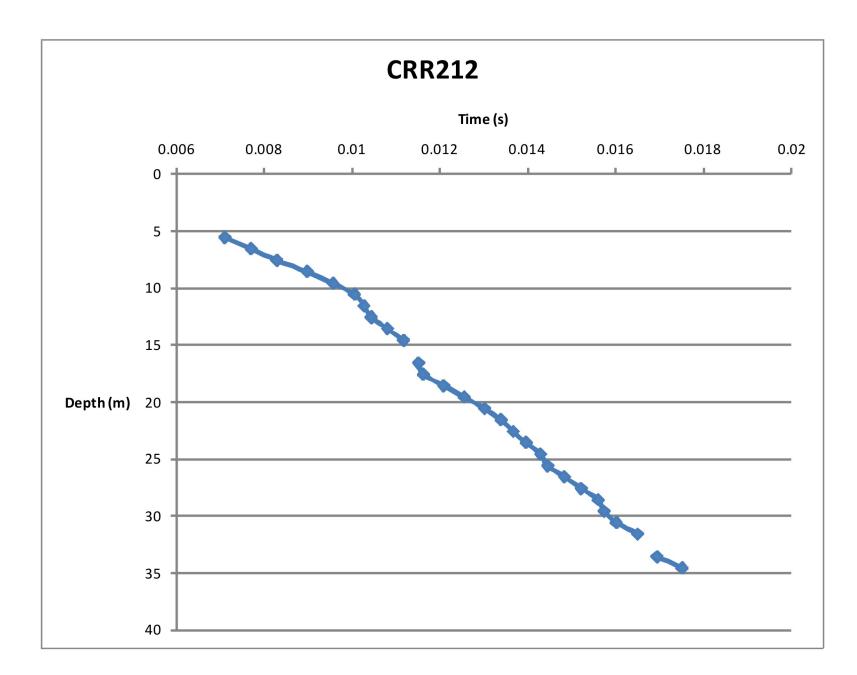












acop.ioiic	1 /	micerral relocate (1 mare mys)
from	to	
5.6	6.6	1664
6.6	7.6	1701
7.6	8.6	1461
8.6	9.6	1704
9.6	10.6	2036
10.6	11.6	4592
11.6	12.6	6049
12.6	13.6	2737
13.6	14.6	2742
14.6	15.6	*
15.6	16.6	*
16.6	17.6	*
17.6	18.6	2150
18.6	19.6	2151
19.6	20.6	2151
20.6	21.6	2702
21.6	22.6	3503
22.6	23.6	3504
23.6	24.6	3008
24.6	25.6	6397
25.6	26.6	2604
26.6	27.6	2604
27.6	28.6	2605
28.6	29.6	7109
29.6	30.6	3616
30.6	31.6	2069
31.6	32.6	*
32.6	33.6	*
33.6	34.6	1747

Geophone Depth (m) Interval velocity (P wave m/s)

Note:

* - 1st arrival not clear due to noise

Calculations done without accounting for borehole deviation



		partment o d Main Roa	•	PROJECT	Cross River Ro	lic							
	DRAWN	GDK	DATE OCT 4	TITLE	CRR212 VSP								
es	CHECKED	TR	DATE	SIME IZ VOI									
	SCALE	NTS		PROJECT No	000-107632034	FIGURE No	REV No	А3					