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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010 BOREHOLE No BH C29

SHEET 1 of 3

REFERENCE No H11119

PROJECT LOCATION										
	ECT No FG5799 SURFACE R.L. 87.10m PLUNGE DATE STARTED 19/07/11 GRID DATUM MGA94									
JOB No			10A/2 HEIGHT DATUM AHD BEARING							Contract
(m) (E) HE day 0 87.1	O AUGER CASING WASH BORING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	ТТ	INTACT DEFECT STRENGTH SPACING (mm) EFE ≥ 3 dd 8888	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
86.9	1 1 1 1			TOPSOIL: Brown, silt.	34.14				Based on Driller's logs only	1
86.4	10			Silty SAND: Brown, fine grained. SANDSTONE (HW): Grey/brown, fine grained.		(SM)	+		22,27,30/100mm	-
[141		Α				1 1		N>50	SPT :
85.6	50	(36)		SANDSTONE (HW): Red/brown, massive, medium grained, medium strength. Defects: -Joint at 10° (3/m) -Joint at 40°-50° (3-4/m) -Joint at 70° (1-2/m)					J, 70°, Pl, S, O, Clnf, 5mm J, 10°, Pl, O, Clnf, 20mm Is(50) = 0.48MPa Is(50) = 0.36MPa	X .
3	•	(23)		Defect spacing is close to medium. Defect surfaces are planar, open or tight, smooth, clay infilled. Pebbles sizing up to 6mm, subrounded.		HW			⊐– CLy seam	
-		(61)	-							-
- -5 - - 81.7	<u>'5</u>	(01)		SANDSTONE (MW):				<u></u>	ls(50) = 0.76MPa ls(50) = 0.92MPa	x -
		100 (47)		Light brown, massive, fine to medium grained, high strength, indurated and/or slightly metamorphosed. Defects: -Joints at 30-40° (4/m) -Joints at 50-60° (1-2/m) -Joints at 70° (1/m) Defect spacing is medium. Defect surfaces are planar, open, smooth, clay infilled, iron stained.		MW			Is(50) = 1.82MPa	LICS -
78.1	<u>.</u>	100		L	<u> </u> ::::			ļ]
-		(72)		SANDSTONE (SW): Grey, fine grained, bedded or massive, mainly high strength, indurated and/or slightly metamorphosed. Bedding dips at 70°. (See over)		sw				1
REMAR	⊥i KS				1				LOGGED BY	
IVENIAL.									JA/DC	



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

PROJECT				pgrade (Cooroy to Curra) Section C	_		_		e e	-			472039	.9 E; 7093677.4	N.
				SURFACE R.L. <u>87.10m</u> PLUNGE						=D				MGA94	
				HEIGHT DATUM _AHD BEARING											
R.L. (m)	R NG H BORING DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION		Т	Т	INTACT STRENGTH チェミュラゴ	DEFE	СТ		ADD	ITIONAL I AND ST RESU	DATA	SAMPLES
10 77.10	ANG WASIN	CORE REC %	SAM		트	USC		구도 조그	288	28 11	GR/	15	31 KE3U	LIO	SA
-11		100 (95)		Defects: -Joints at 10° (2/m) -Joints at 30°-40° (2-3/m) -Bedding parting at 70° (1/m) Defect spacing is generally medium to wide. Defect surfaces are generally planar, smooth, open or tight, iron stained, thinly clay infilled.			į.						ls(50) = 0.33MPa 50) = 0.19MPa	x -
12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14		100 (84)		Occasional siltstone interbeds up to 700mm.											
DOE HWY UPGRADE SECTION C.GPJ DWG-4635,200W Datget CP1 100		(40) (40)				sw	~			· · · · · · · · · · · · · · · · · · ·			ls(50) = 2.58MPa 50) = 1.48MPa	X
26 WLITHOLOGY F66788 - BRUCE HWY													1s 1s	(50) = 0.34MPa (50) = 1.18MPa	X -
OLD DMR_LIB 01A.0LB Log A ENGINEERING BOREHOLE LOG WLITHOLOGY		100 (67)					ļ					D		n³; MC = 0.5%; UCS=78.2MPa	UCS
LID DMR LIB 0/A,GLB Log		100 (20)										HW Siltston	Is	(50) = 3.91MPa (50) = 4.36MPa bedding at	x 0 -
REMARK	(S				mc 04		_	222						LOGGED BY	
	12372	202	-		_	_	_	***				_		JA/DC	



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

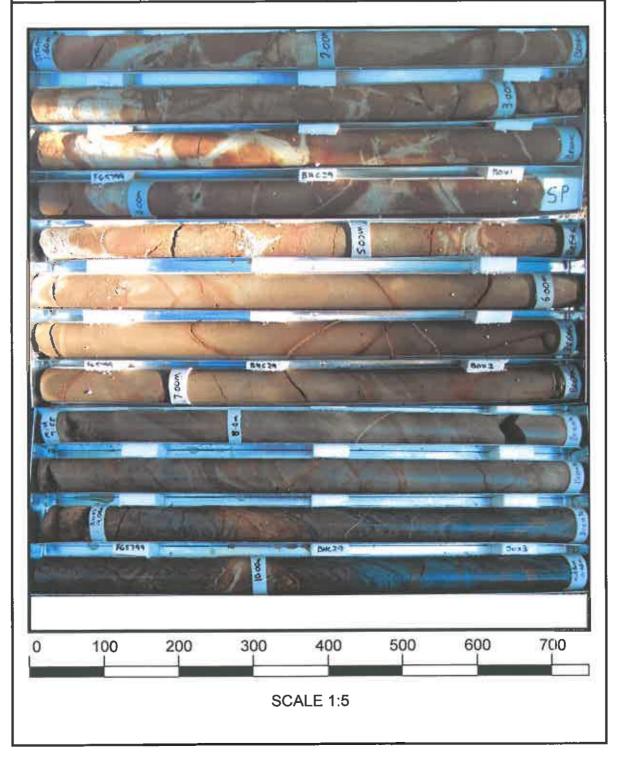
	JECT				lpgrade (Cooroy to Curra) Sect	i <u>on C</u>									
	ATION	Cut 8			CLIDEACE DI 97.10m									.9 E; 7093677.	. <u>4 IN</u>
JOB					SURFACE R.L. <u>87,10m</u> HEIGHT DATUM <u>AHD</u> .									Cairns Drilling	— — —
, JOB					TEIOTT DATOM _AID	DEANING _					190	<u> </u>		Zamia primit	y Contrac
	R.L. (m)	<u>©</u> ©	RQD ()%						INTACT STRENGTH	DEFECT SPACING	l _o	,	ADDITIONAL I	DATA	
ОЕРТН (т)		IORIN			MATERIAL		β	N N		(mm)	O O		AND		S
DEP.		AUGER CASING WASH BORING CORE DRILLING	CORE	SAMPLE	DESCRIPTION	I	LITHOLOGY	SH	STRENGTH	888	GRAPHIC		TEST RESU	LTS	SAMPLES
20	67,10	72§8	REC %	S	CANDSTONE (SMD: Coolid		5	USC		40000	5				S ₽
					SANDSTONE (SW): Cont'd										
-								sw							
-							:::	· I							
21	66.10		100		Borehole terminated at 21m			+		-					
-										Ė					
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IN.	-w-u/NC											•		JA/DC	

DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3115 3035 Fax 07 3115 3011



CORE PHOTO LOG - BH C29

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C				
Project No.:	FG5799	Date:	06/09/2011		
Details:	Cut 8	Start Depth (m):	1.60		
Reference No.:	H11119	Finish Depth (m):	21.00		

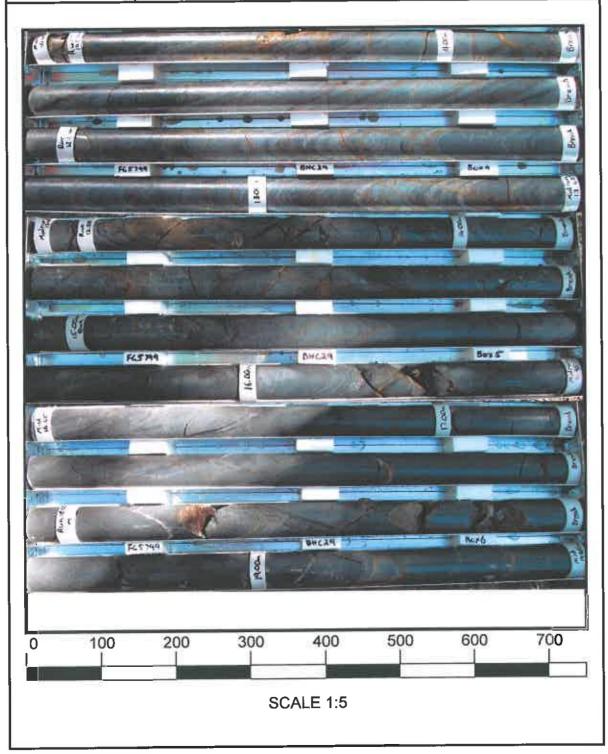


DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3115 3035 Fax 07 3115 3011



CORE PHOTO LOG - BH C29

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C				
Project No.:	FG5799	Date:	06/09/2011		
Details:	Cut 8	Start Depth (m):	1.60		
Reference No.:	H11119	Finish Depth (m):	21.00		



0

100

200

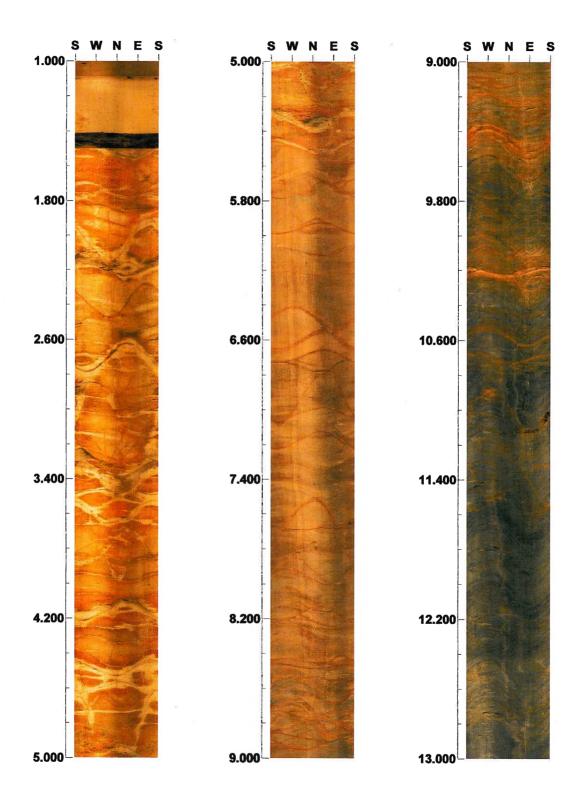


Holle of Strip 5055 Lax	07 3113 3011						
CORE PHOTO LOG - BH C29							
Project Name:	ne: BRUCE HIGHWAY UPGRADE - SECTION C						
Project No.:	FG5799	Date:	06/09/2011				
Details:	Cut 8	Start Depth (m):	1.60				
Reference No.:	H11119	Finish Depth (m):	21.00				
	Spacer						

Bore hole No.: C-29 Azimuth: 0

Inclination: -90

Depth range: 1.000 - 13.000 m



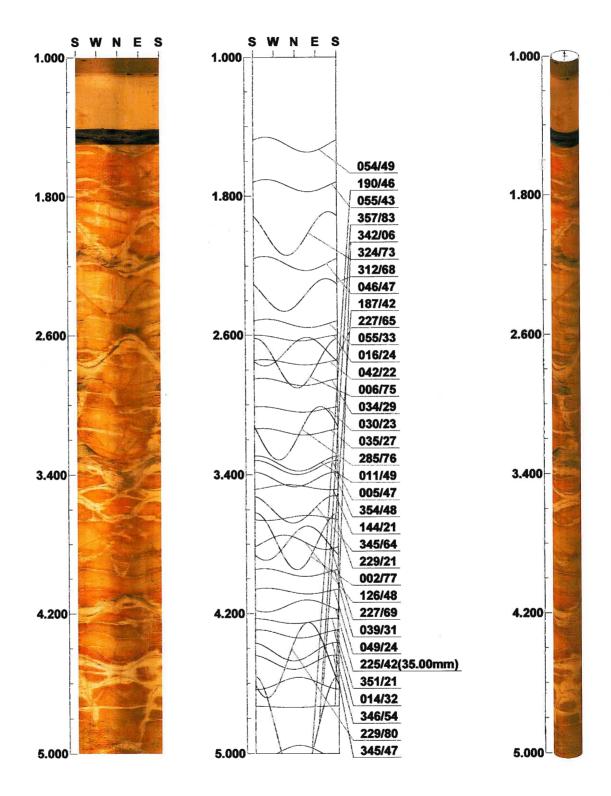
Bore hole No.: C-29 Azimuth: 0 Inclination: -90

Depth range: 13.000 - 19.947 m



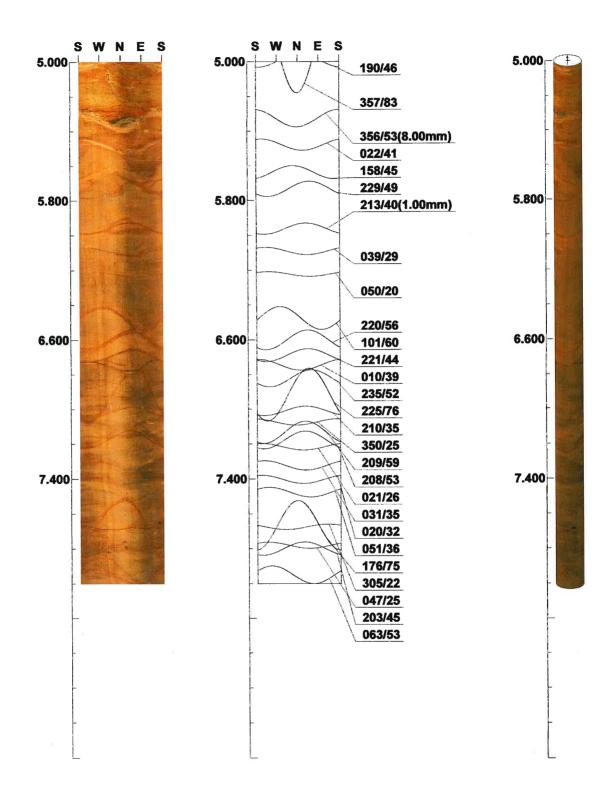
Bore hole No.: C-29 Azimuth: 0 Inclination: -90

Depth range: 1.000 - 5.000 m



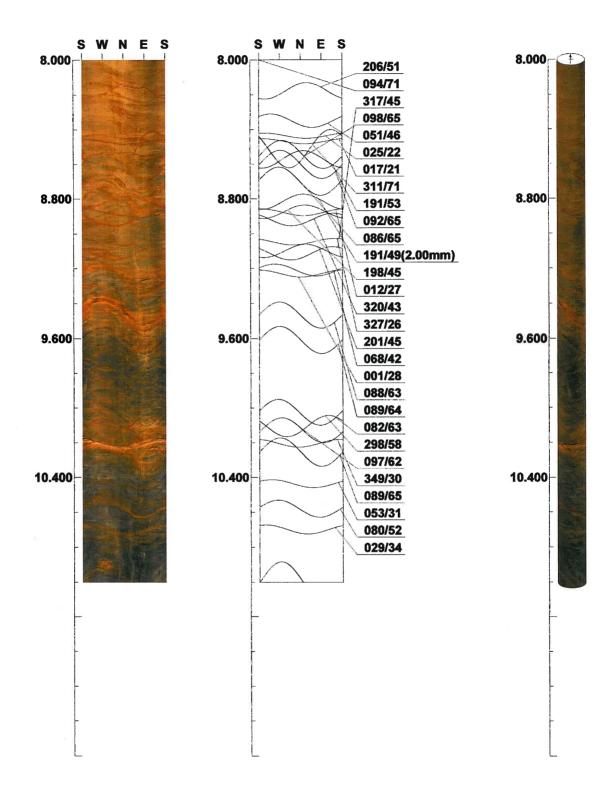
Bore hole No.: C-29 Azimuth: 0 Inclination: -90

Depth range: 5.000 - 8.000 m



Bore hole No.: C-29 Azimuth: 0 Inclination: -90

Depth range: 8.000 - 11.000 m



File name: C-29.STR

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	Depth (m)	Dir/Dip	Sort	Aperture (mm)	Form	Condition	Remar
1	1.505	054/49	Joint	0.5	Planar	Smooth	Open
2	1.740	055/43	Joint	0.3	Planar	Smooth	Open
3	2.015	324/73	Joint	0.5	Planar	Smooth	Open
4	2.186	046/47	ShearZone	13.0	Planar	Brec/crus'd	Open/loose
5	2.368	312/68	Joint	0.5	Planar	Smooth	Open
6	2.532	055/33	Joint	0.3	Planar	Smooth	Open
7	2.617	016/24	Joint	0.5	Planar	Smooth	Open
8	2.695	227/65	Joint	2.0	Planar	Minerl'zd	Open
9	2.756	042/22	Joint	0.3	Planar	Smooth	Open
10	2.761	006/75	Joint	0.3	Planar	Smooth	Open
11	2.868	034/29	Joint	0.3	Planar	Smooth	Open
12	3.026	030/23	Joint	0.5	Planar	Smooth	Open
13	3.154	035/27	Joint	0.3	Planar	Smooth	Open
14	3.163	285/76	Joint	0.3	Planar	Smooth	Open
15	3.336	011/49	Joint	0.5	Planar	Smooth	Open
16	3.359	005/47	Joint	0.5	Planar	Smooth	Open
17	3.427	354/48	Joint	0.5	Planar	Rough	Open
18	3.472	144/21	Joint	1.0	Planar	Smooth	Open
19	3.599	345/64	Joint	1.0	Planar	Rough	Open
20	3.648	229/21	Joint	0.5	Planar	Smooth	Open
21	3.783	002/77	Joint	0.3	Planar	Rough	Open
22	3,789	126/48	Joint	0.3	Planar	Smooth	Open
23	3.794	227/69	Joint	0.5	Planar	Smooth	Open
24	3.964	039/31	Joint	0.5	Planar	Smooth	Open
25	4.071	049/24	Joint	0.5	Planar	Smooth	Open
26	4.156	225/42	Joint	35.0	Planar	Weathered	Open
27	4.242	351/21	Joint	0.5	Planar	Smooth	Open
28	4.316	014/32	Joint	0.5	Planar	Offset	Open
29	4.419	346/54	Joint	0.5	Planar	Smooth	Open
30	4.466	229/80	Joint	0.3	Planar	Rough	Open
31	4.479	345/47	Joint	7.0	Planar	Brec/crus'd	Open
32	4.600	187/42	Joint	0.5	Planar	Smooth	Open
33	4.733	342/06	Joint	0.5	Planar	Rough	Open
34	4.870	357/83	Joint	0.5	Planar	Rough	Open
35	4.993	190/46	Joint	0.5	Planar	Brec/crus'd	Open
36	5.326	356/53	ShearZone	8.0	Planar	Brec/crus'd	Open/loose
37	5.479	022/41	ShearZone	10.0	Planar	Rough	Open
38	5.638	158/45	Joint	0.3	Planar	Rough	Open
39	5.734	229/49	Joint	0.3	Planar	Smooth	Open
40	5.963	213/40	Joint	1.0	Planar	Smooth	Open/fil'd
41	6.090	039/29	Joint	0.5	Planar	Smooth	Open
42	6.222	050/20	Joint	0.3	Planar	Smooth	Open
43	6.475	101/60	Joint	1.0	Planar	Smooth	Open/fil'd
44	6.600	220/56	Joint	2.0	Planar	Smooth	Open/fil'd
45	6.688	221/44	Joint	0.5	Planar	Smooth	Open
46	6.744	010/39	Joint	1.0	Planar	Smooth	Open/fil'd
47	6.822	235/52	Joint	0.3	Planar	Smooth	Open
48	6.916	225/76	Joint	0.3	Planar	Smooth	•
49	7.010	210/35	Joint	0.3	Planar		Open
	1.010	Z 10/33	JOHIL	0.5	ridilai	Smooth	Open

File name: C-29.STR

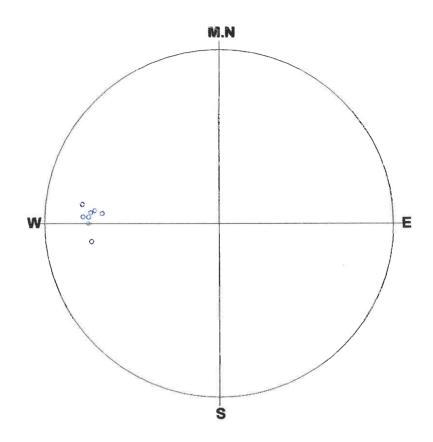
No.	Depth (m)	Dir/Dip	Sort	Aperture (mm)	Form	Condition	Remark
51	7.133	209/59	Joint	0.3	Planar	Smooth	Open
52	7.177	208/53	Joint	0.5	Planar	Smooth	Open
53	7.216	021/26	Joint	0.3	Planar	Smooth	Tight
54	7.322	031/35	Joint	0.3	Planar	Smooth	Open
55	7.402	020/32	Joint	0.5	Planar	Smooth	Open
56	7.475	051/36	Joint	0.3	Planar	Rough	Open
57	7.665	176/75	Joint	0.5	Planar	Offset	Open
58	7.674	305/22	Joint	0.5	Planar	Smooth	Open/fil'd
59	7.780	047/25	Joint	0.3	Planar	Smooth	Tight
60	7.799	203/45	Joint	0.3	Planar	Smooth	Open
61	7.949	063/53	Joint	0.5	Planar	Rough	Open
62	8.177	206/51	Fault	1.0	Planar	Smooth	Open
63	8.349	051/46	Joint	0.3	Planar	Smooth	Tight
64	8.436	025/22	Joint	0.5	Planar	Rough	Open
65	8.468	017/21	Joint	1.0	Planar	Brec/crus'd	Open
66	8.511	311/71	Joint	0.3	Planar	Smooth	Open
67	8.544	098/65	Joint	0.3	Planar	Smooth	Open
68	8.573	191/53	Joint	0.5	Planar	Smooth	Open
69	8.602	092/65	Joint	0.5	Planar	Smooth	Open
70	8.699	086/65	Joint	0.5	Planar	Smooth	Open
71	8.817	191/49	Joint	2.0	Planar	Brec/crus'd	Open/fil'd
72	8.874	198/45	Joint	0.3	Planar	Smooth	Open
73	8.877	012/27	Joint	0.5	Planar	Smooth	Open
74	8.919	320/43	Joint	0.5	Planar	Smooth	Open
75	9.046	327/26	Joint	0.5	Planar	Smooth	Open
76	9.099	201/45	Joint	0.5	Planar	Smooth	Open
77	9.113	317/45	Joint	0.5	Planar	Smooth	Open
78	9.209	068/42	Joint	0.5	Planar	Rough	Open
79	9.229	000/28	Joint	0.5	Planar	Smooth	Open
80	9.466	088/63	ShearZone	10.0	Planar	Brec/crus'd	Open/loose
81	9.608	090/64	Foliation	0.0	Planar	Smooth	Tight
82	10.025	082/63	Foliation	0.0	Planar	Smooth	Tight
83	10.104	298/58	Joint	0.3	Planar	Smooth	Open
84	10.128	097/62	Joint	0.3	Planar	Smooth	Open
85	10.203	349/30	ShearZone	18.0	Planar	Brec/crus'd	Open/loose
86	10.254	090/65	Joint	0.5	Planar	Smooth	Open
87	10.435	053/31	Joint	0.3	Planar	Smooth	Open
88	10.579	080/52	Joint	0.3	Planar	Smooth	Open
89	10.698	029/34	Joint	0.3	Planar	Smooth	Open
90	10.992	094/71	Joint	0.3	Planar	Rough	Open
91 92	11.111	013/34	Joint	0.3	Planar	Rough	Open
92 93	11.415	308/70	Joint	0.3	Planar	Rough	Open
	11.453	212/71	Joint	0.3	Planar	Rough	Tight
94	11.482	095/63	Foliation	0.0	Planar	Rough	Tight
95 96	11.576	048/24	Joint	0.3	Planar	Smooth	Tight
96 97	12.063	223/74	Joint	0.5	Planar	Smooth	Open
	12.191	160/21	Joint	0.3	Planar	Rough	Open
98 99	12.290	279/65	Joint	0.3	Planar	Smooth	Open
100	12.437	183/50	Joint	0.3	Planar	Rough	Open
100	12.650	285/60	Joint	0.3	Planar	Rough	Open

File name: C-29.STR

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No.	Depth (m)	Dir/Dip	Sort	Aperture (mm)	Form	Condition	Remar
101	12.692	049/37	Joint	0.3	Planar	Smooth	Open
102	12.759	346/19	Joint	0.3	Planar	Rough	Open
103	13.085	287/65	Joint -	0.3	Planar	Smooth	Open
104	13.214	288/59	Joint	0.3	Planar	Smooth	Open
105	13.262	260/50	Joint	0.3	Planar	Smooth	Open
106	13.293	258/50	Joint	0.3	Planar	Smooth	Open
107	13.543	321/74	Joint	0.3	Planar	Rough	Open
108	13.582	093/67	Foliation	0.0	Planar	Smooth	Tight
109	13.648	158/06	Joint	0.3	Planar	Smooth	Tight
110	13.802	233/43	Joint	0.3	Planar	Smooth	Open
111	13.838	096/61	Foliation	0.0	Planar	Smooth	Tight
112	13.936	200/45	Joint	0.5	Planar	Smooth	Open
113	13.991	335/65	Joint	0.5	Planar	Rough	Open
114	14.034	323/72	Joint	0.3	Planar	Smooth	Open
115	14.072	209/57	Joint	1.0	Planar	Smooth	Open
116	14.112	218/53	Joint	0.5	Planar	Smooth	Open
117	14.203	336/59	Joint	0.3	Planar	Smooth	Open
118	14.267	334/72	Joint	0.5	Planar	Rough	Open
119	14.327	095/57	Foliation	0.0	Planar	Smooth	Tight
120	14.448	321/60	Joint	0.3	Planar	Rough	Open
121	14.546	333/72	Joint	0.5	Planar	Rough	Open
122	14.754	333/13	Joint	0.5	Planar	Smooth	Open
123	14.767	345/80	Joint	0.5	Planar	Rough	Open
124	14.780	215/40	Joint	0.5	Planar	Smooth	Open
125	14.833	240/46	Joint	0.5	Planar	Smooth	Open
126	14.880	003/79	Joint	0.5	Planar	Smooth	Open
127	14.907	354/12	Joint	0.5	Planar	Smooth	Open
128	15.013	093/64	Foliation	0.0	Planar	Smooth	Tight
129	15.063	344/68	Joint	0.3	Planar	Smooth	Open
130	15.161	248/44	Joint	0.5	Planar	Smooth	Open
131	15.382	334/65	Joint	0.3	Planar	Rough	Tight
132	15.449	337/72	Joint	0.3	Planar	Rough	Tight/fil'd
133	15.462	098/71	Joint	0.3	Planar	Rough	Tight/fil'd
134	16.142	329/76	Joint	0.3	Planar	Smooth	Tight/fil'd
135	16.233	330/74	Joint	0.3	Planar	Smooth	Tight/fil'd
136	16.536	208/54	Joint	2.0	Planar	Smooth	Open/loose
137	16.683	098/68	Foliation	0.0	Planar	Smooth	Tight
138	17.959	217/57	Joint	2.0	Planar	Smooth	Open
139	18.413	099/68	Joint	1.0	Planar	Smooth	Open
140	18.600	693/67	Joint	0.5	Planar	Smooth	Open
141	18.692	281/81	Joint	0.5	Planar	Rough	Open/fil'd
142	19.328	265/44	Joint	1.0	Planar	Smooth	Open
143	19.394	338/65	Joint	0.5	Planar	Smooth	Open
144	19.787	025/25	Joint	1.0	Planar	Smooth	Open

C-29.STR <<FOLIATION>>



Number of Data: 8/144

<Legend>

:Foliation -- 8 +:Mineralban- 0

:Parting -- 0

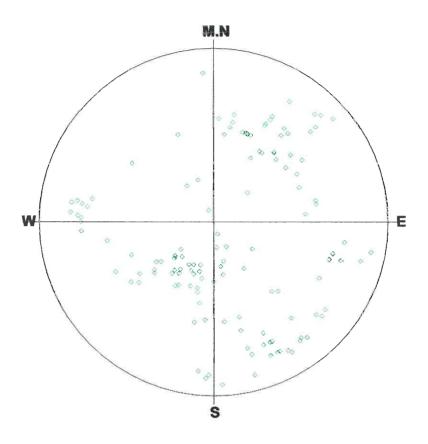
∴:Fault -- 0

 ∇ :ShearZone- 0

imes:Vein -- 0

Schmidt (L.H)

C-29.STR <<JOINT>>



Number of Data: 130/144

<Legend>

:Foliation -- 0 +:Mineralban- 0

○:Joint -- 130

:Parting -- 0

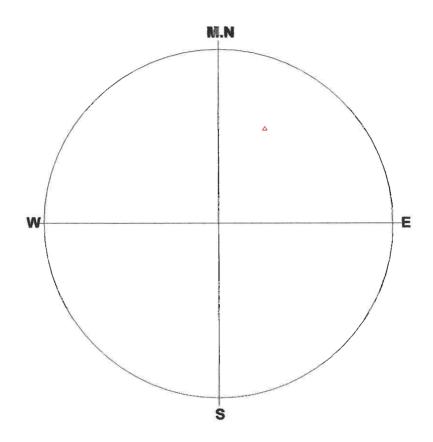
___:Fault -- 0

▽:ShearZone- 0

 \times :Vein -- 0

Schmidt (L.H)

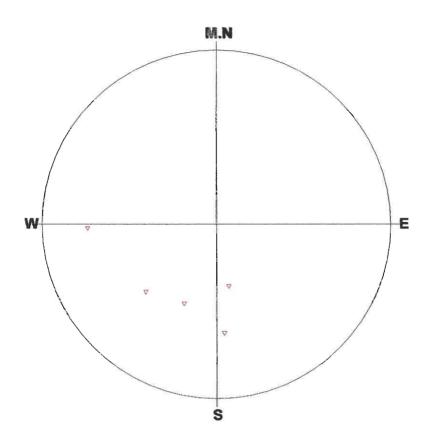
C-29.STR <<FAULT>>



Number of Data: 1/144

Schmidt (L.H)

C-29.STR <<SHEAR ZONE>>



Number of Data: 5/144

<Legend>

:Foliation - 0

-: Mineralban- 0

:Joint -- 0

Parting -- 0

___:Fault -- 0

▽:ShearZone- 5

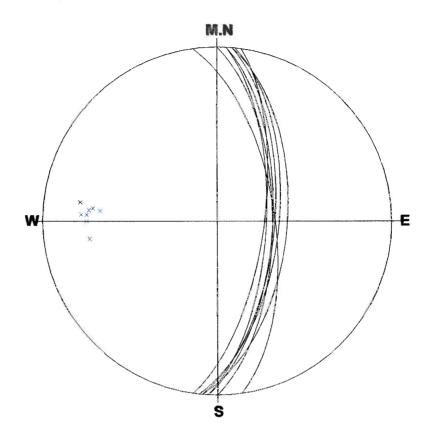
 \times :Vein -- 0

Schmidt (L.H)

Depth: 1.505 - 19.787 m

Aperture: 0.0 - 35.0 mm

C-29.STR <<FOLIATION>>



Number of Data:8/144

 1:090/64(81)
 6:095/57(119)

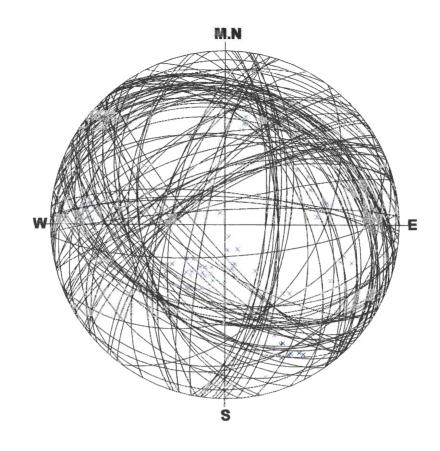
 2:082/63(82)
 7:093/64(128)

 3:095/63(94)
 8:098/68(137)

4:093/67(108) 5:096/61(111)

Schmidt (L.H)

C-29.STR <<JOINT>>

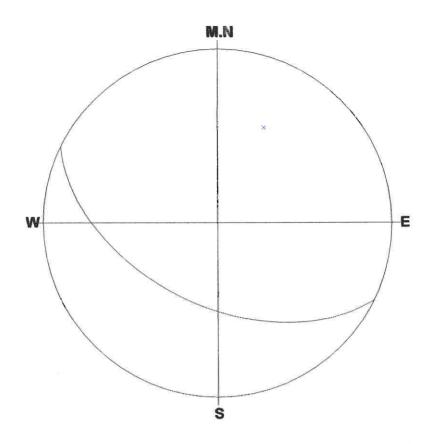


Number of Data:130/144

5:055/33(6)	10 : 034/29(11)
4:312/68(5)	9:006/75(10)
3 : 324/73(3)	8:042/22(9)
2:055/43(2)	7:227/65(8)
1:054/49(1)	6:016/24(7)

Schmidt (L.H)

C-29.STR <<FAULT>>

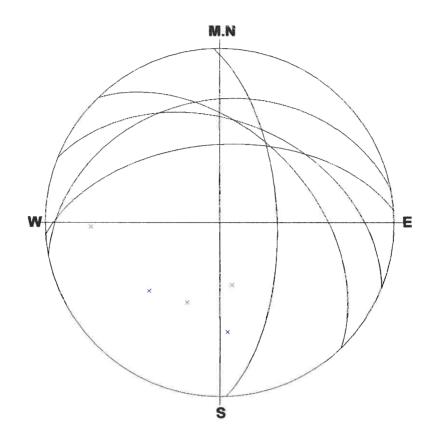


Number of Data:1/144

1:206/51(62)

Schmidt (L.H)

C-29.STR <<SHEAR ZONE>>



Number of Data:5/144

1:046/47(4)

2:356/53(36)

3:022/41(37)

4:088/63(80)

5:349/30(85)

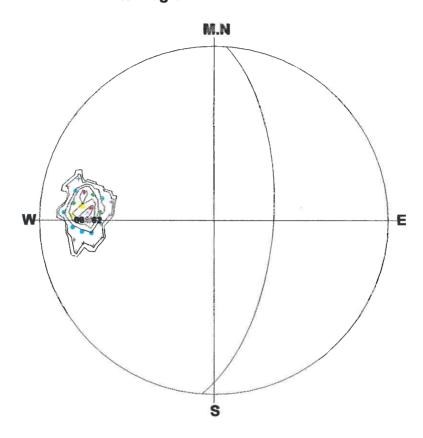
Schmidt (L.H)

Depth: 1.505 - 19.787 m

Aperture: 0.0 - 35.0 mm

C-29.STR <<FOLIATION>>

***** % Diagram ******



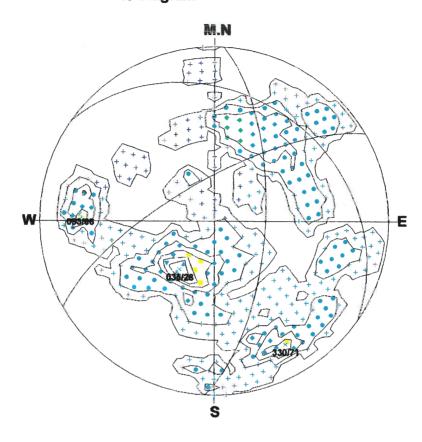
Number of Data: 8

<legend> Sym. (%)</legend>	Contour Value (%)					
A : 87	Contour 1: 0					
V : 70 - 87	Contour 2: 17					
V . 10 - 01	Contour 3: 35					
<mark>: 52 - 70</mark>	Contour 4: 52					
• : 35 - 52	Contour 5: 70					
. 30 - 52	Contour 6: 87					
: 17 - 35	-					
+: 0 - 17						

Schmidt (L.H)

C-29.STR <<JOINT>>

***** % Diagram ******



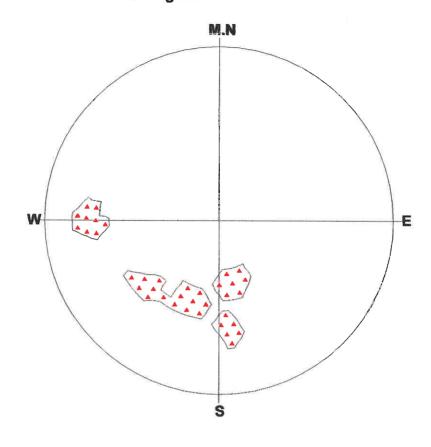
Number of Data: 130

<legend> Sym. (%)</legend>	Contour Value (%)					
A : 10	Contour 1: 0					
V : 8 - 10	Contour 2: 2					
V. 8- 10	Contour 3: 4					
: 6 - 8	Contour 4: 6					
• : 4- 6	Contour 5: 8					
. 4- 0	Contour 6: 10					
: 2- 4						

Schmidt (L.H)

C-29.STR <<SHEAR ZONE>>

***** % Diagram ******

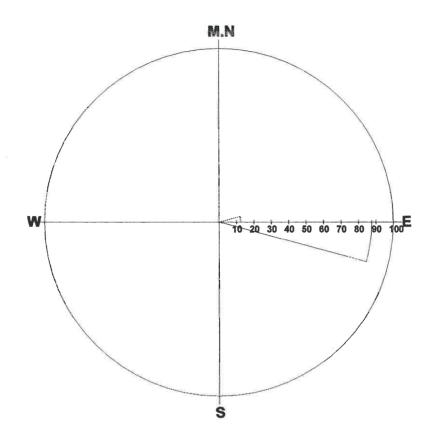


Number of Data: 5

<Legend> Sym. (%) ∴ 20 ∵ 16 - 20 ∴ 12 - 16 ∴ 8 - 12 ∴ 4 - 8 ∴ 4 - 8 ∴ 0 - 4 Contour Value (%) Contour 1 : 0 Contour 2 : 4 Contour 3 : 8 Contour 4 : 12 Contour 5 : 16 Contour 6 : 20

Schmidt (L.H)

C-29.STR <<FOLIATION>>



Number of Data: 8/144

Max: 87.5%

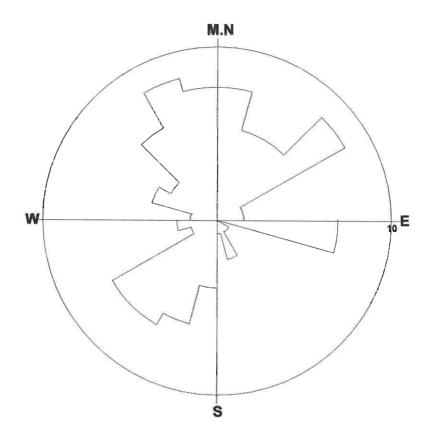
Grouping Angle: 15 deg

Dir	%	Dir	%	Dir	%
0-	0	135-	0	270-	0
15-	0	150-	0	285-	0
30-	0	165-	0	300-	0
45-	0	180-	0	315-	0
60-	0	195-	0	330-	0
75-	13	210-	0	345-	0
90-	88	225-	0		
105-	0	240-	0	Andrew Andrew	
120-	0	255-	0	And the control of th	J.

Depth: 1.505 - 19.787 m

Aperture: 0.0 - 35.0 mm

C-29.STR <<JOINT>>



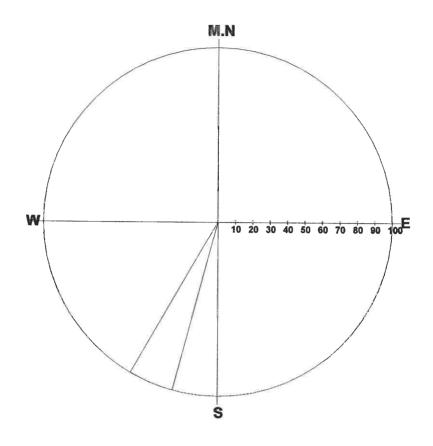
Number of Data: 130/144

Max: 8.5%

Grouping Angle: 15 deg

Dir	%	Dir	%	Dir	%
0-	8	135-	1	270-	2
15-	5	150-	2	285-	4
30-	5	165-	1	300-	3
45-	8	180-	4	315-	6
60-	2	195-	6	330-	8
75-	2	210-	7	345-	8
90-	7	225-	7		
105-	0	240-	2	memperatu da Yepana	
120-	1	255-	2	and in Adaptable representation of the Control of t	

C-29.STR <<FAULT>>



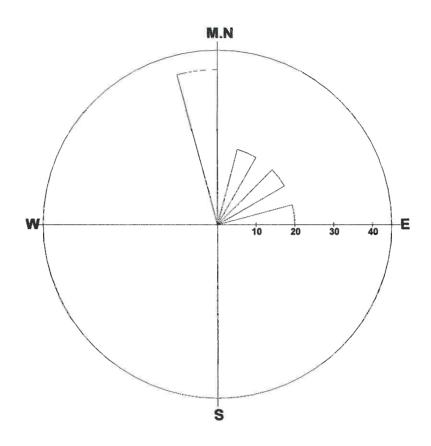
Number of Data: 1/144

Max: 100.0%

Grouping Angle: 15 deg

Dir	%	Dir	%	Dir	%
0-	0	135-	0	270-	0
15-	0	150-	0	285-	0
30-	0	165-	0	300-	0
45-	0	180-	0	315-	0
60-	0	195-	100	330-	0
75-	0	210-	0	345-	0
90-	0	225-	0		
105-	0	240-	0	The state of the s	
120-	0	255-	0		

C-29.STR <<SHEAR ZONE>>



Number of Data: 5/144

Max: 40.0%

Grouping Angle: 15 deg

Dir	%	Dir	%	Dir	%
0-	0	135-	0	270-	0
15-	20	150-	0	285-	0
30-	0	165-	0	300-	0
45-	20	180-	0	315-	0
60-	0	195-	0	330-	0
75-	20	210-	0	345-	40
90-	0	225-	0		
105-	0	240-	0		
120-	0	255-	0		

Depth: 1.505 - 19.787 m

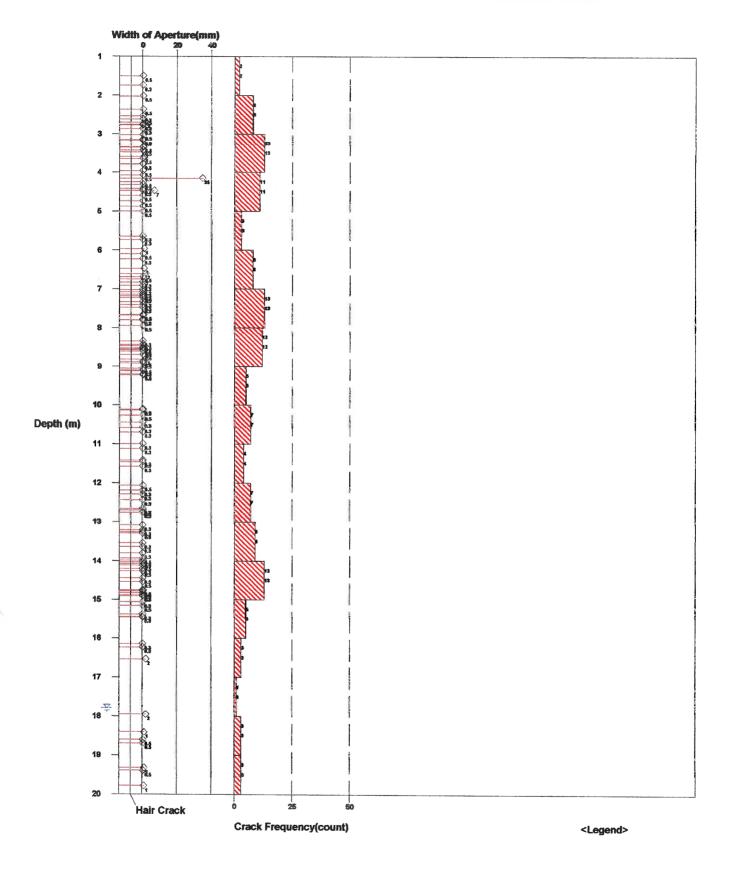
Aperture : 0.0 - 35.0 mm

Title: C-29.STR Comment: JOINT Depth: 1.505 - 19.787 m Aperture: 0.0 - 35.0 mm Sort: 1/7 Form: 5/5 Condition: 11/11 Remark: 9/9 2011/ 8/31

Elevation: 0.000m Water Level: 17.786m

> All Crack Frequency Open Crack Frequency

Water Level



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Rock Mass Condition Graph

Fig.

Title: C-29.STR Comment: FAULT Depth: 1.505 - 19.787 m Aperture: 0.0 - 35.0 mm Sort: 1/7 Form: 5/5 Condition: 11/11 Remark: 9/9

2011/ 8/31

Elevation: 0.000m Water Level: 17.786m

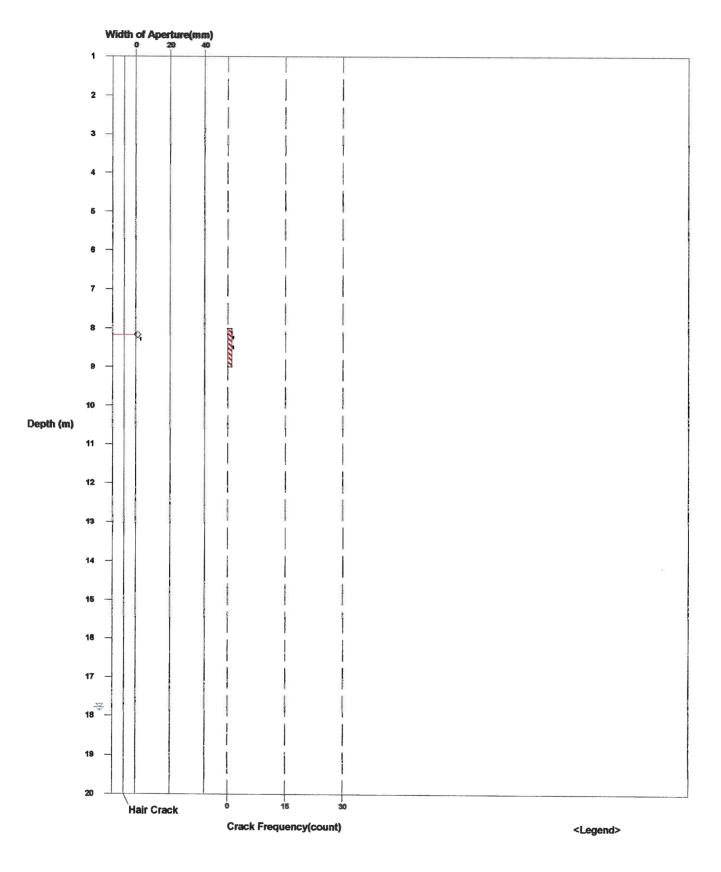


Fig. Rock Mass Condition Graph

All Crack Frequency
Open Crack Frequency

₩ Water Level

Title: C-29.STR Comment: SHEAR ZONE Depth: 1.505 - 19.787 m Aperture: 0.0 - 35.0 mm Sort: 1/7 Form: 5/5 Condition: 11/11 Remark: 9/9

2011/ 8/31

Elevation: 0.000m Water Level: 17.786m

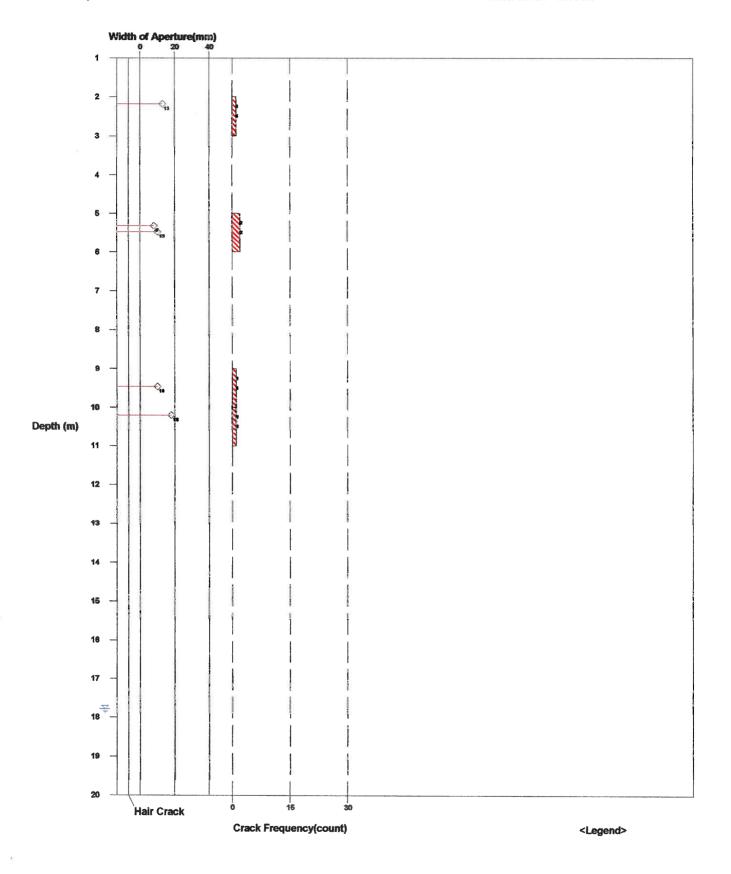


Fig. Rock Mass Condition Graph

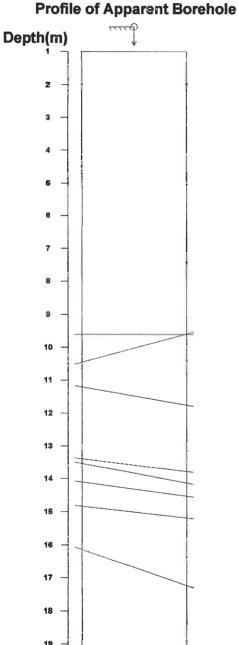
All Crack Frequency
Open Crack Frequency

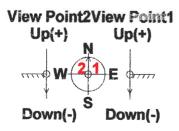
₩ater Level

Title: C-29.STR

Comment: FOLIATION Depth: 1.505 - 19.787 m Aperture: 0.0 - 35.0 mm

View Point 2
of Apparent Borehole

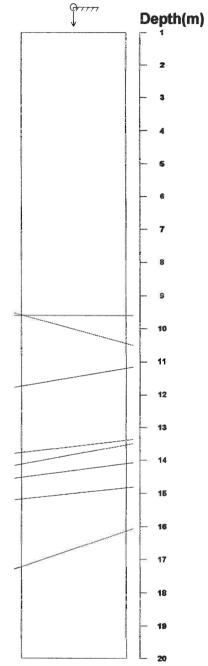




Sort: 1/7 Form: 5/5 Condition: 11/11

Condition: 11/11 Remark: 9/9

View Point 1
Profile of Apparent Borehole



Direction: 0 deg

Inclination: Vertical(Down)

<Legend>
Entrance → G.L
Bottom

Fig. Apparent Dip

Title: C-29.STR **Comment: JOINT** Depth: 1.505 - 19.787 m

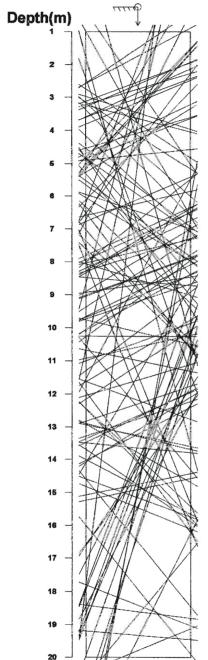
Aperture: 0.0 - 35.0 mm

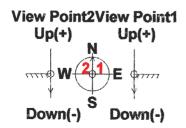
Form: 5/5 Condition: 11/11 Remark: 9/9

1/7

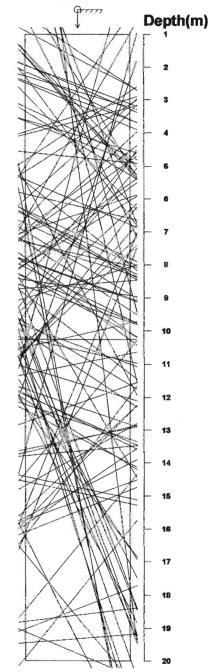
Sort:

View Point 2 Profile of Apparent Borehole





View Point 1 Profile of Apparent Borehole



Direction: 0 deg

Inclination: Vertical(Down)

<Legend> Entrance @ G.L **↓** Bottom

Fig. **Apparent Dip**

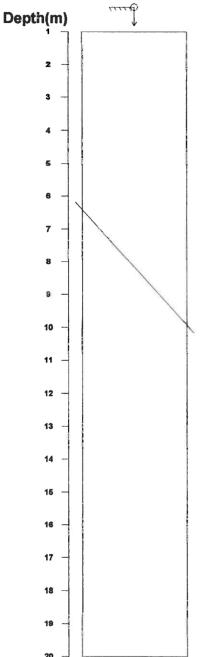
Title: C-29.STR Comment: FAULT Depth: 1.505 - 19.787 m Aperture: 0.0 - 35.0 mm

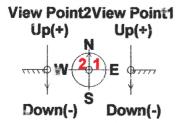
.T Form: 5/ 5 2.787 m Condition: 11/11 5.0 mm Remark: 9/ 9

Sort:

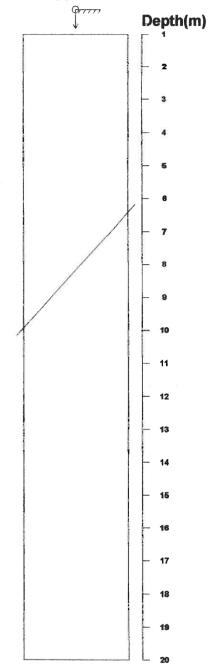
1/7

View Point 2 Profile of Apparent Borehole





View Point 1 Profile of Apparent Borehole



Direction: 0 deg

Inclination: Vertical(Down)

<Legend>
Entrance → G.L

Bottom

Fig. Apparent Dip

Title: C-29.STR

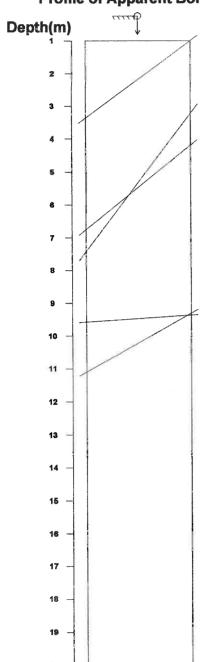
Comment: SHEAR ZONE Depth: 1.505 - 19.787 m Aperture: 0.0 - 35.0 mm

Sort: Form: 1/7 5/ 5

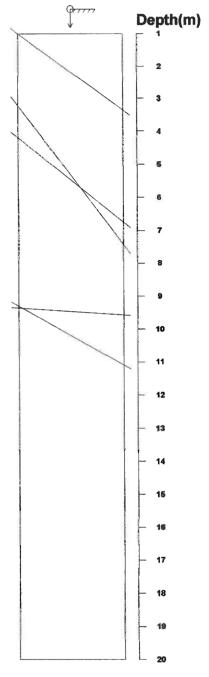
Condition: 11/11 Remark:

9/9

View Point 2 Profile of Apparent Borehole



View Point 1 Profile of Apparent Borehole



View Point2View Point1 Up(+) Up(+)



Direction: 0 deg

Inclination: Vertical(Down)

<Legend> Entrance @7777 G.L ↓ Bottom

Fig. **Apparent Dip**