

Figure C10 Ground penetrating radar survey using 160 MHz antenna on Profiles 016 and 027 at the Springpole site, ON (Page 1 of 3).

Project No. 3134	Document Reference FFC-NL-3134-002
Location Springpole, ON	Date December 2019



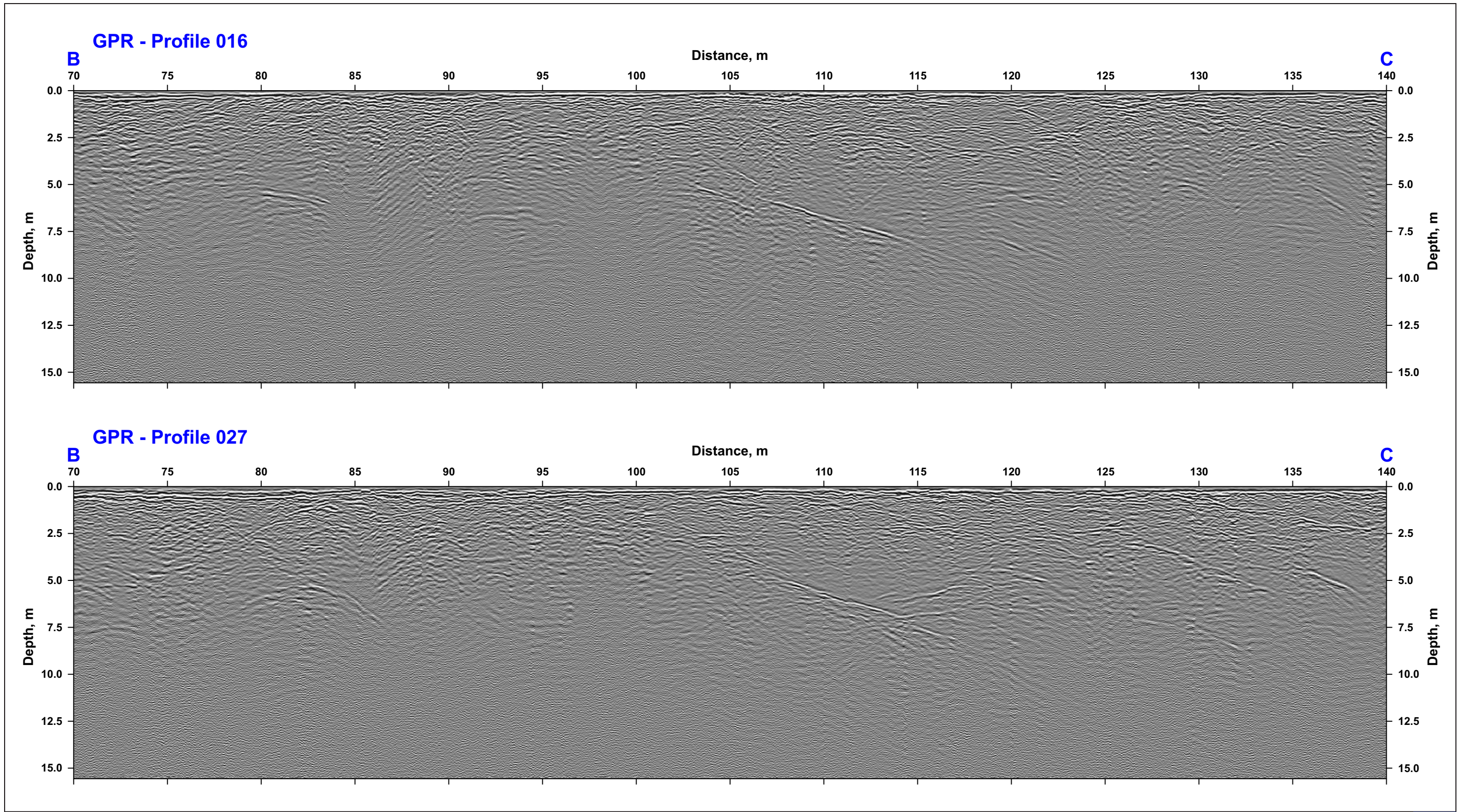


Figure C10 Ground penetrating radar survey using 160 MHz antenna on Profiles 016 and 027 at the Springpole site, ON (Page 2 of 3).

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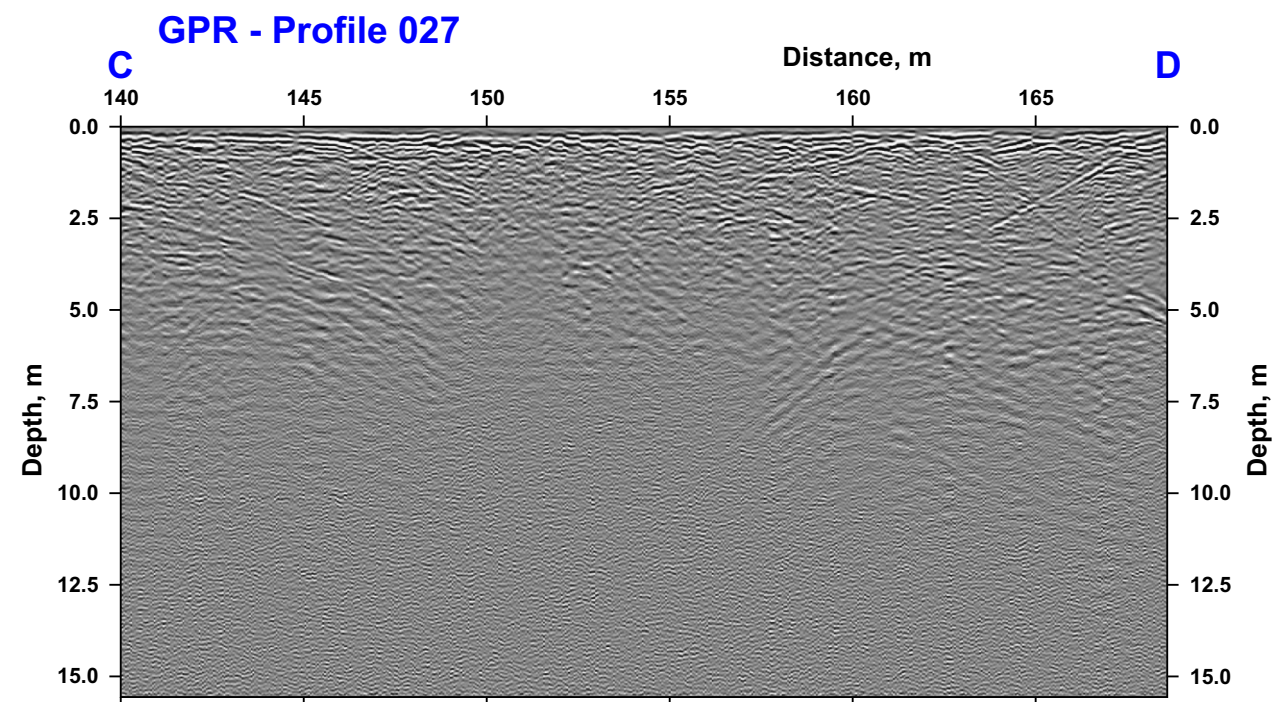
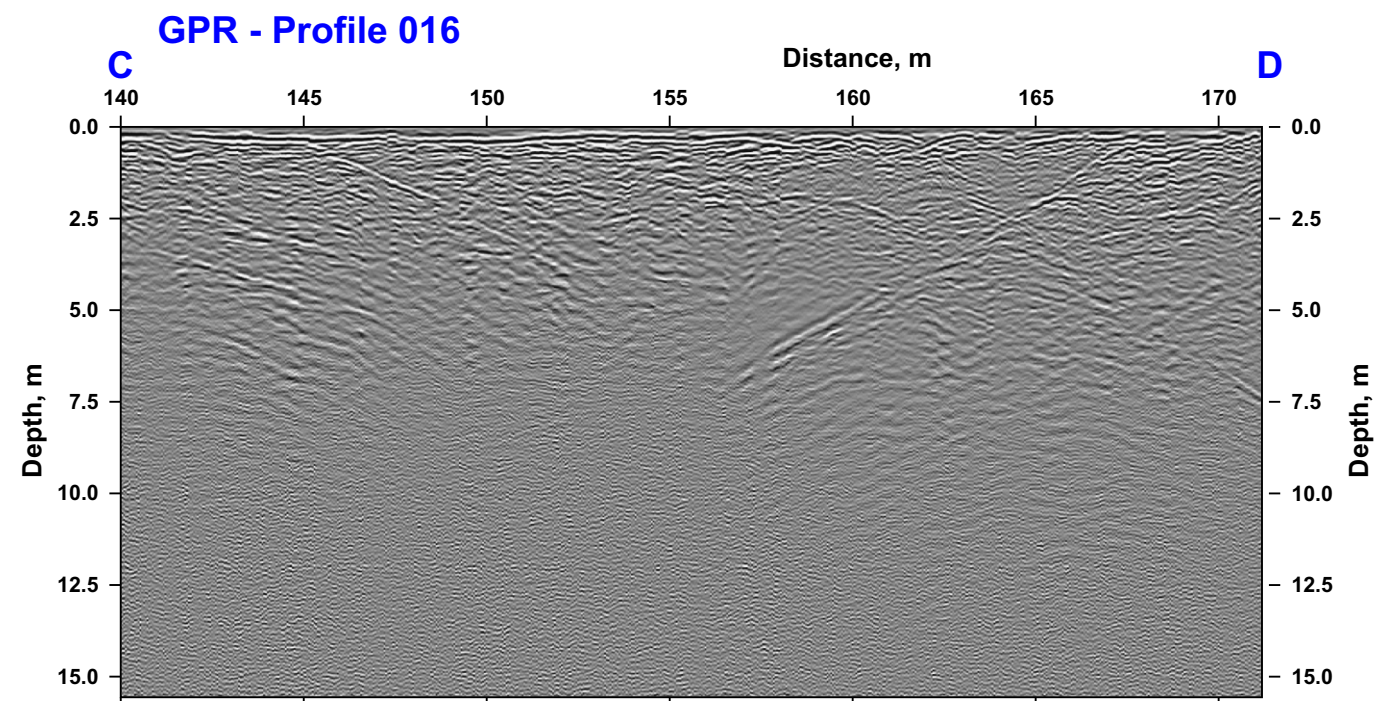


Figure C10 Ground penetrating radar survey using 160 MHz antenna on Profiles 016 and 027 at the Springpole site, ON (Page 3 of 3).

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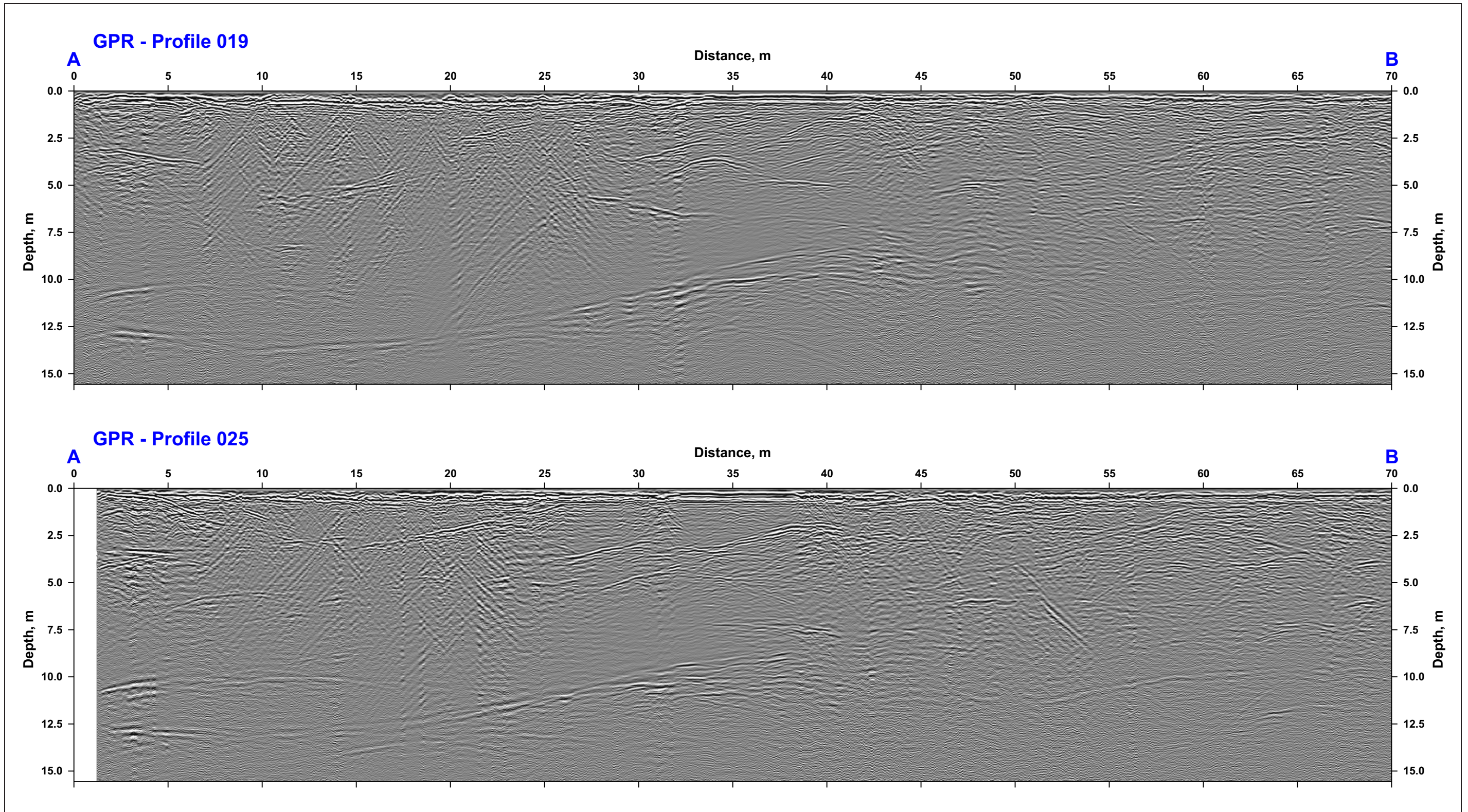


Figure C11 Ground penetrating radar survey using 160 MHz antenna on Profiles 019 and 025 at the Springpole site, ON (Page 1 of 6).

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Location Springpole, ON	Date December 2019



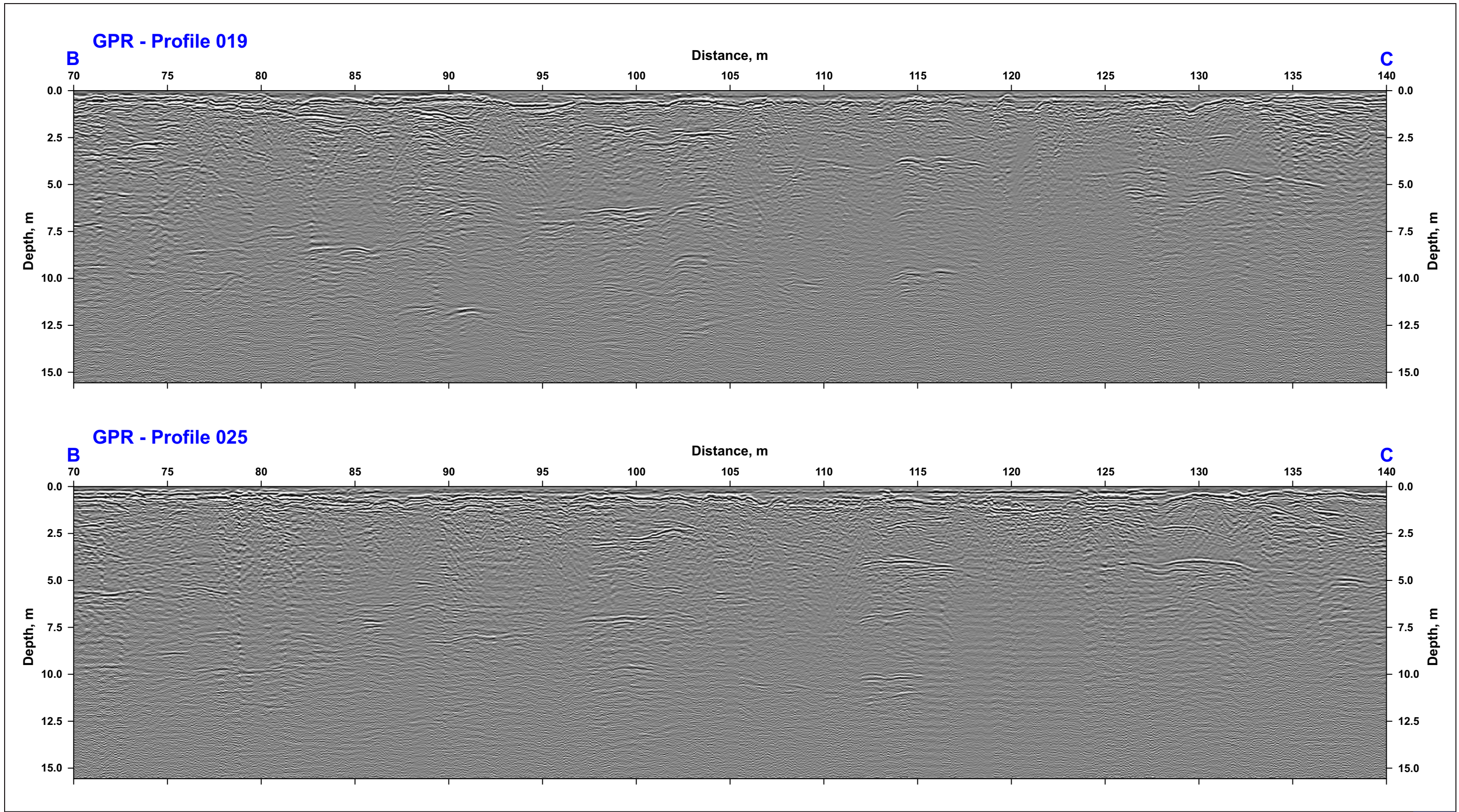


Figure C11 Ground penetrating radar survey using 160 MHz antenna on Profiles 019 and 025 at the Springpole site, ON (Page 2 of 6).

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Location Springpole, ON	Date December 2019



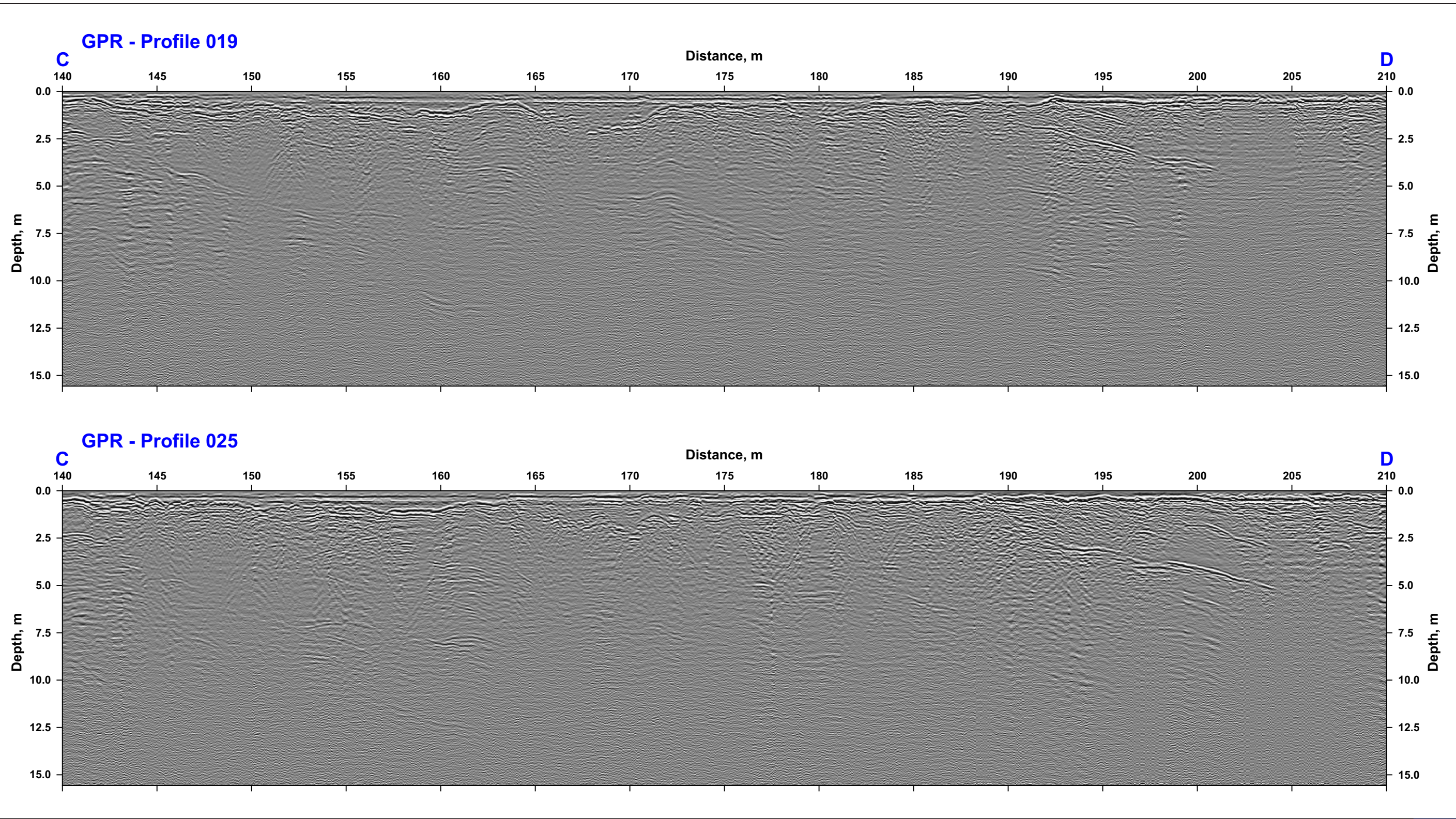


Figure C11 Ground penetrating radar survey using 160 MHz antenna on Profiles 019 and 025 at the Springpole site, ON (Page 3 of 6).

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Location Springpole, ON	Date December 2019



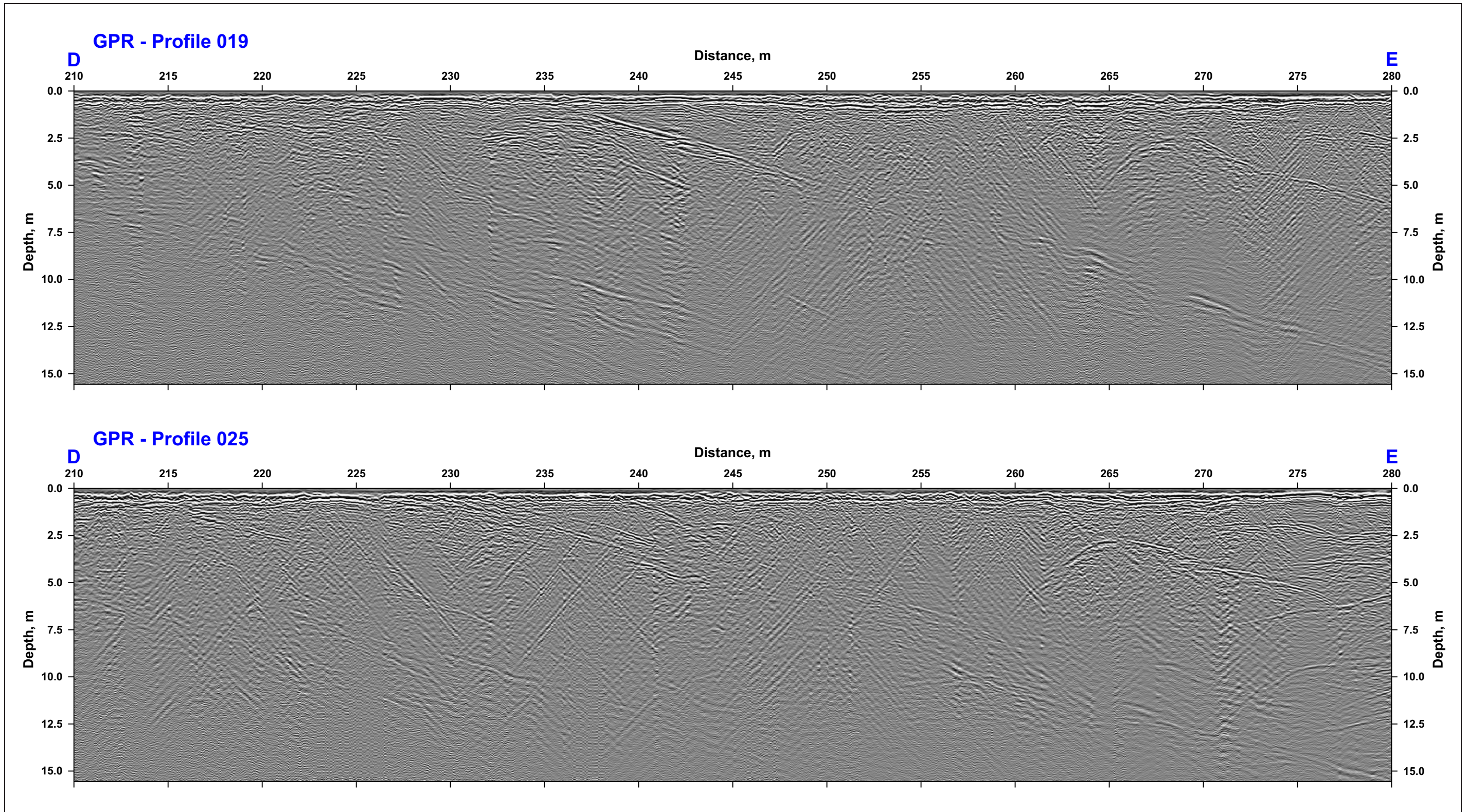



Figure C11 Ground penetrating radar survey using 160 MHz antenna on Profiles 019 and 025 at the Springpole site, ON (Page 4 of 6).

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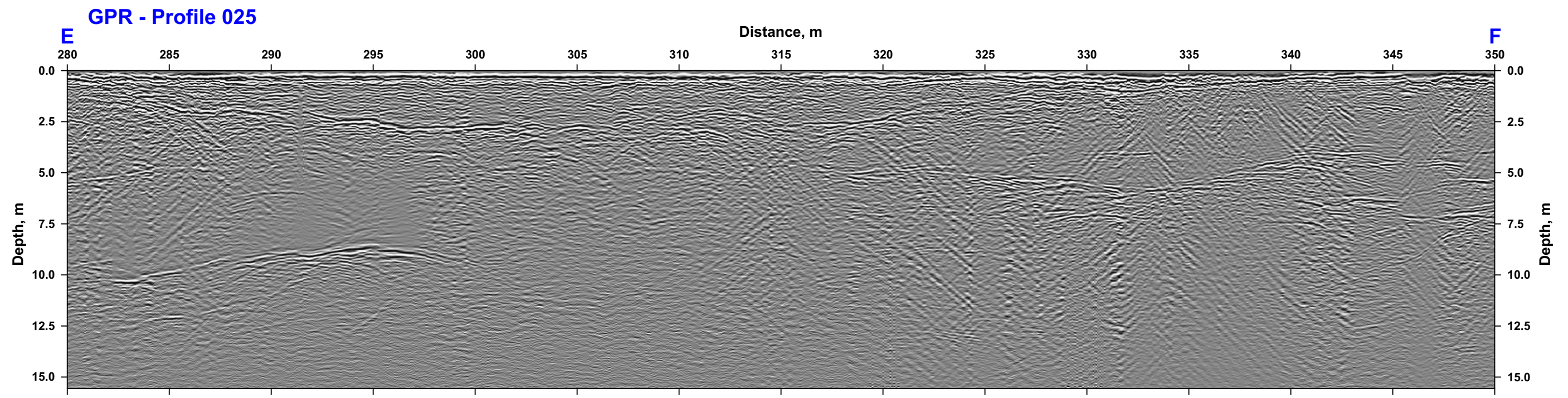
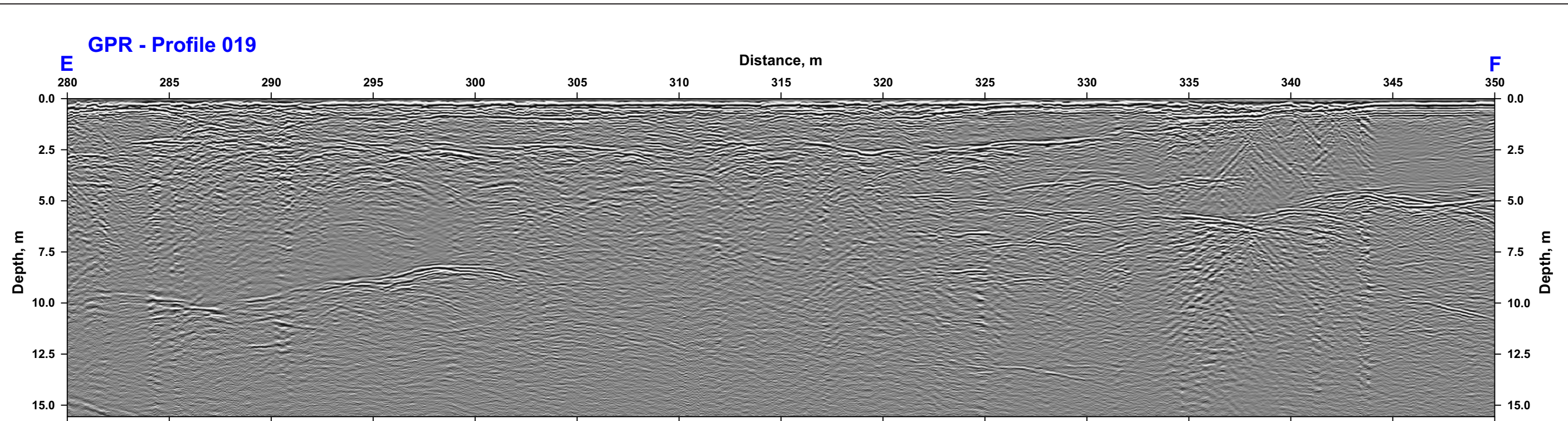


Figure C11 Ground penetrating radar survey using 160 MHz antenna on Profiles 019 and 025 at the Springpole site, ON (Page 5 of 6).

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Location Springpole, ON	Date December 2019



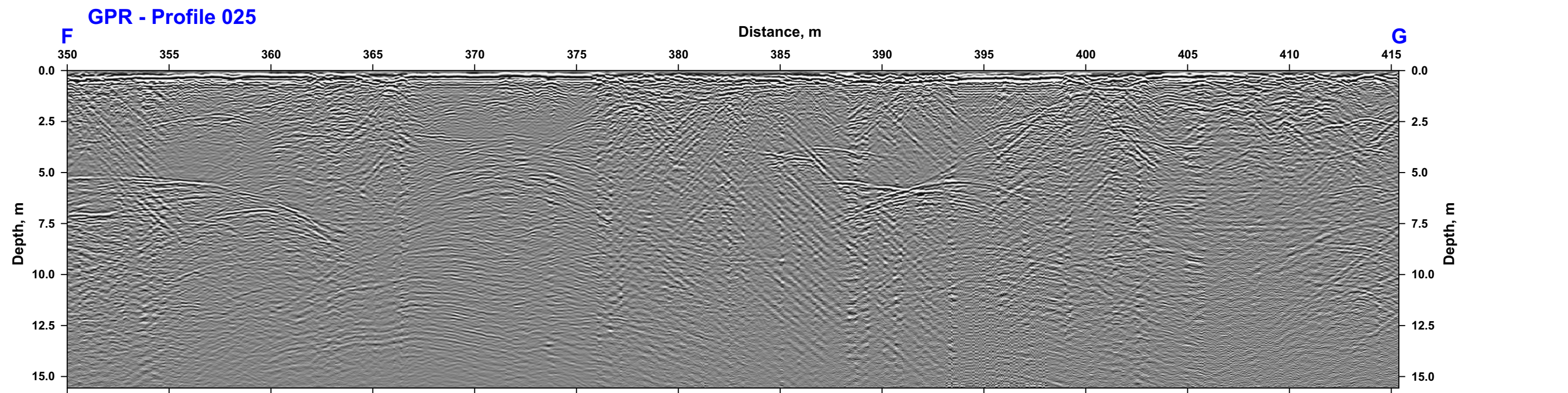
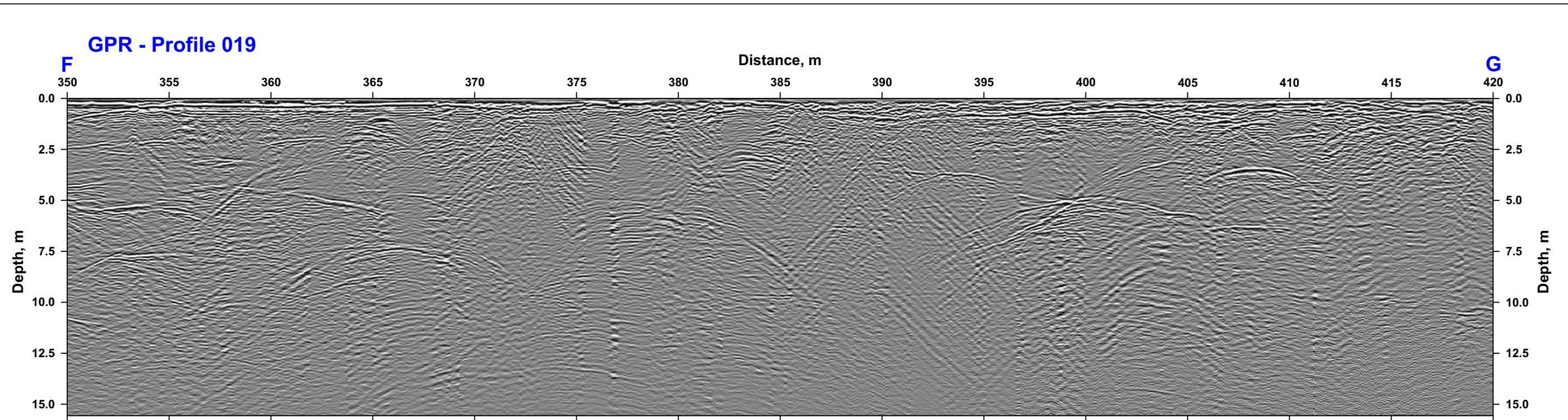


Figure C11 Ground penetrating radar survey using 160 MHz antenna on Profiles 019 and 025 at the Springpole site, ON (Page 6 of 6).

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Location Springpole, ON	Date December 2019



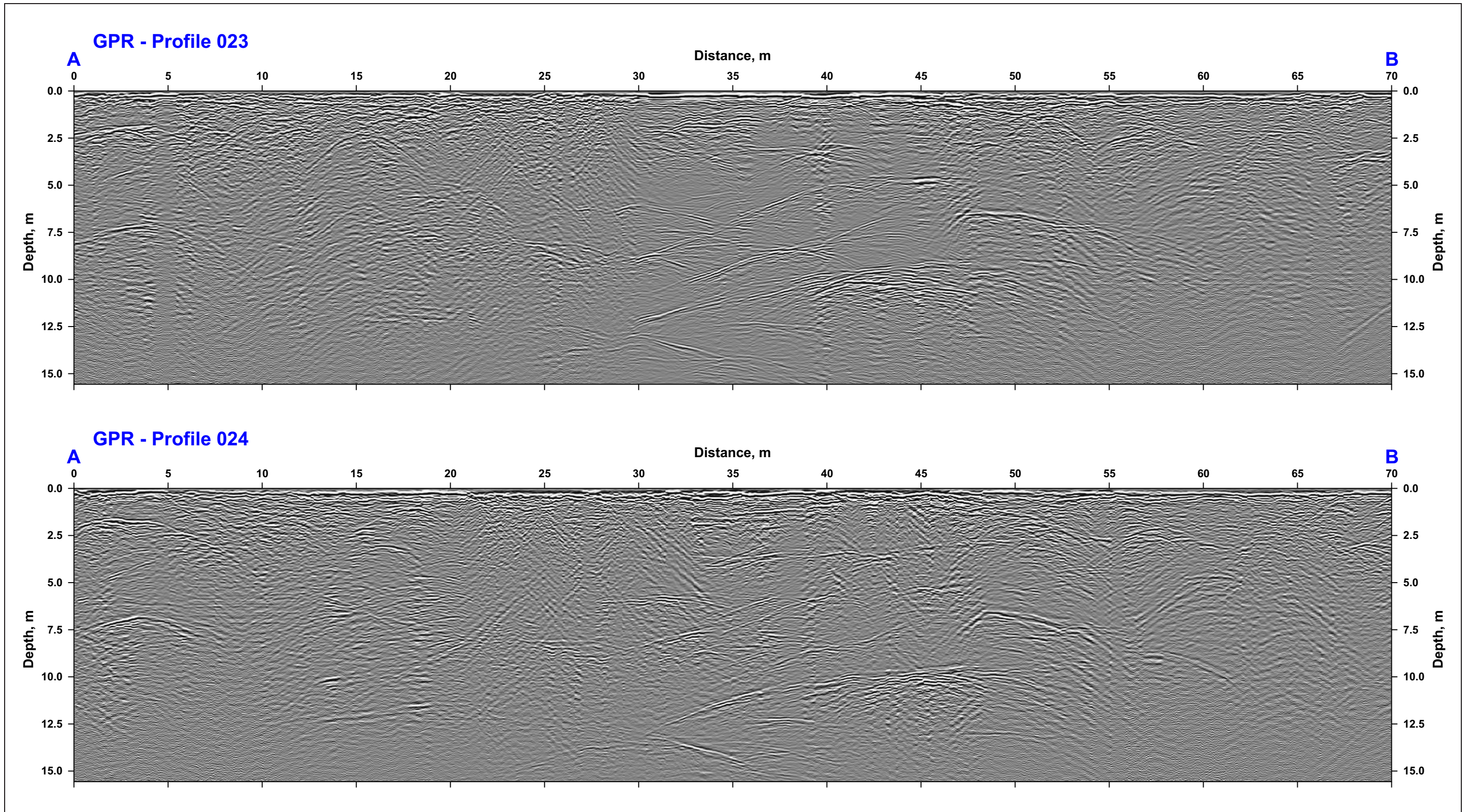


Figure C12 Ground penetrating radar survey using 160 MHz antenna on Profiles 023 and 024 at the Springpole site, ON (Page 1 of 4).

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Location Springpole, ON	Date December 2019



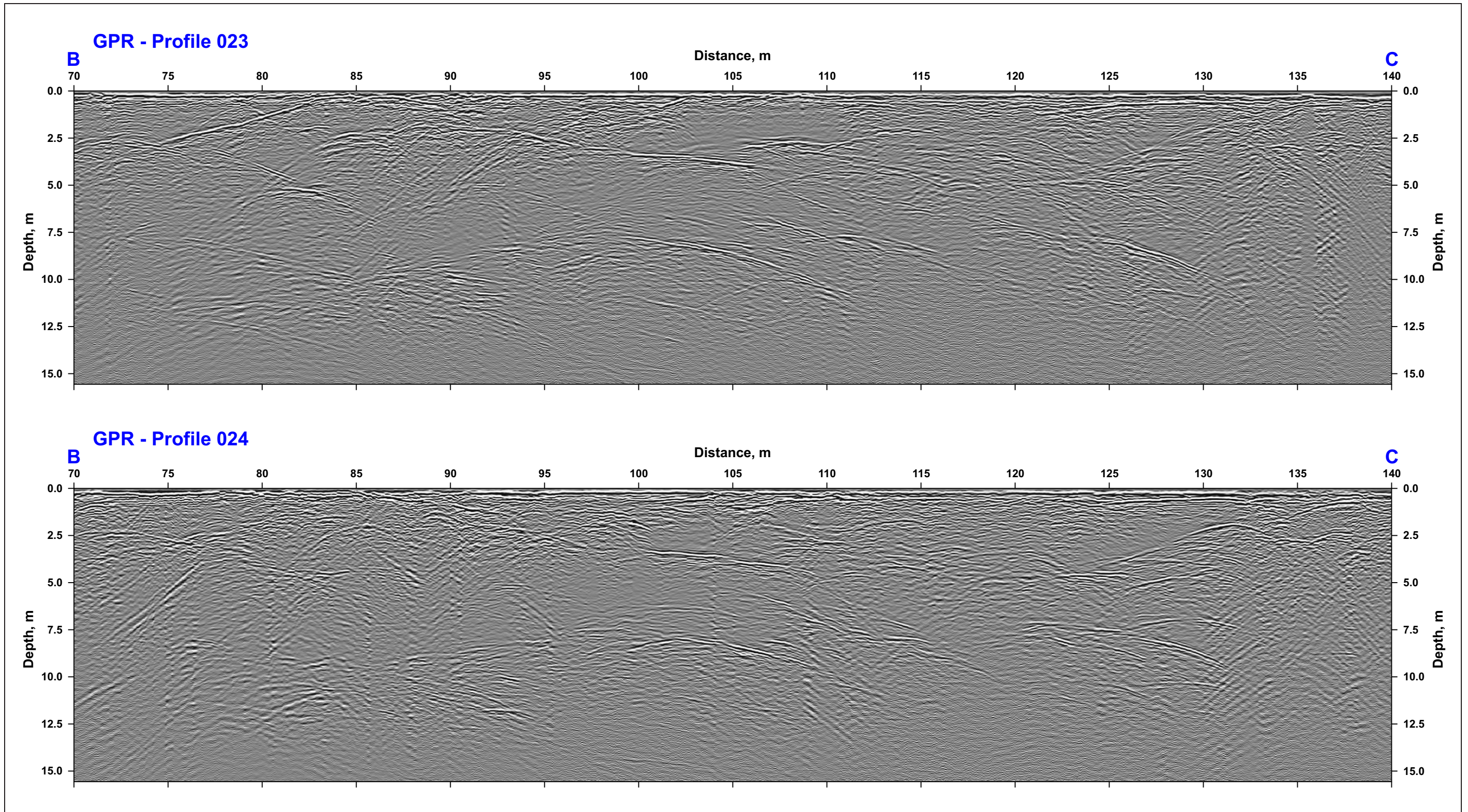


Figure C12 Ground penetrating radar survey using 160 MHz antenna on Profiles 023 and 024 at the Springpole site, ON (Page 2 of 4).

Project No. 3134	Document Reference FFC-NL-3134-002
Location Springpole, ON	Date December 2019



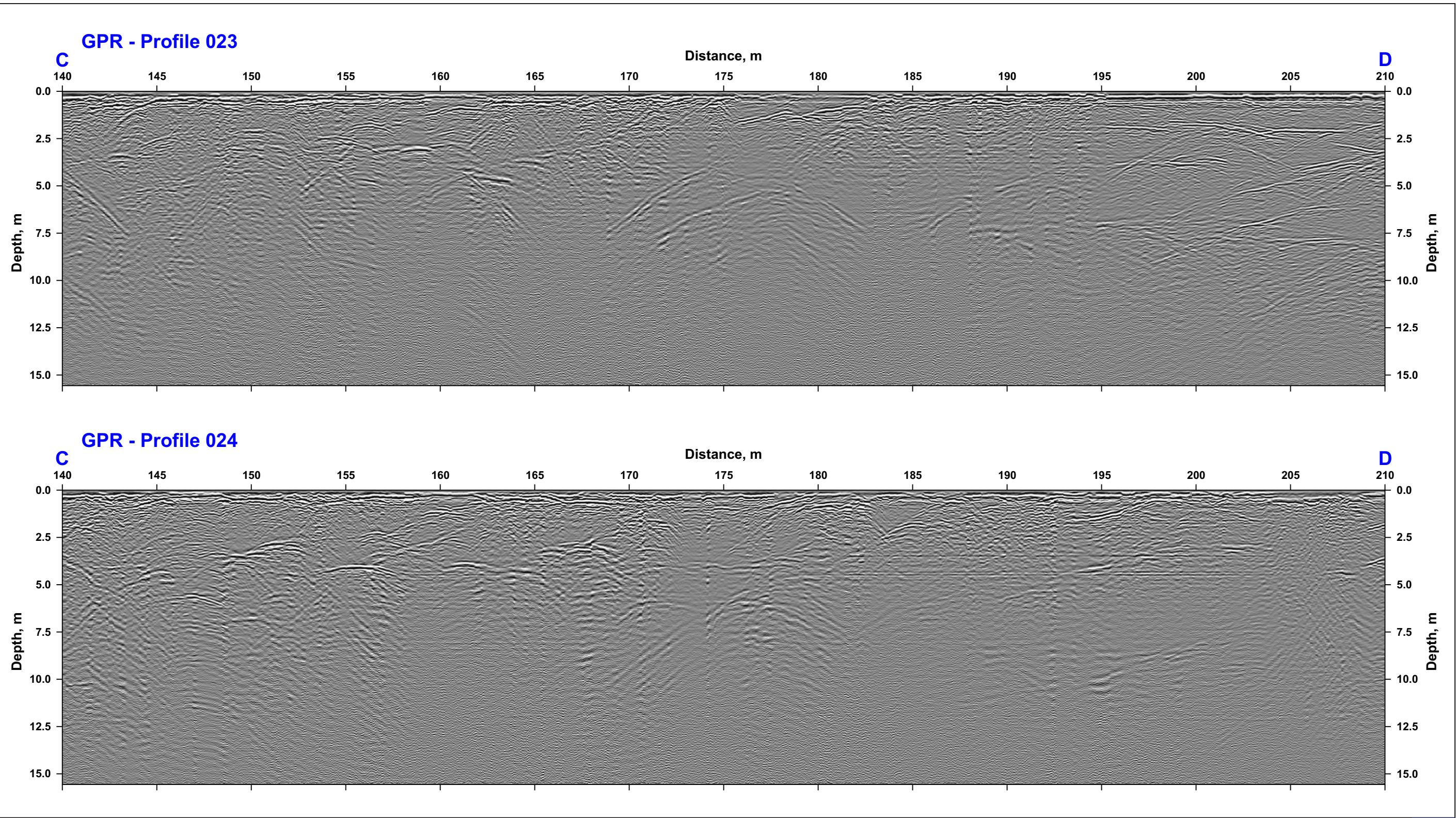


Figure C12 Ground penetrating radar survey using 160 MHz antenna on Profiles 023 and 024 at the Springpole site, ON (Page 3 of 4).

Project No. 3134	Document Reference FFC-NL-3134-002
Location Springpole, ON	Date December 2019



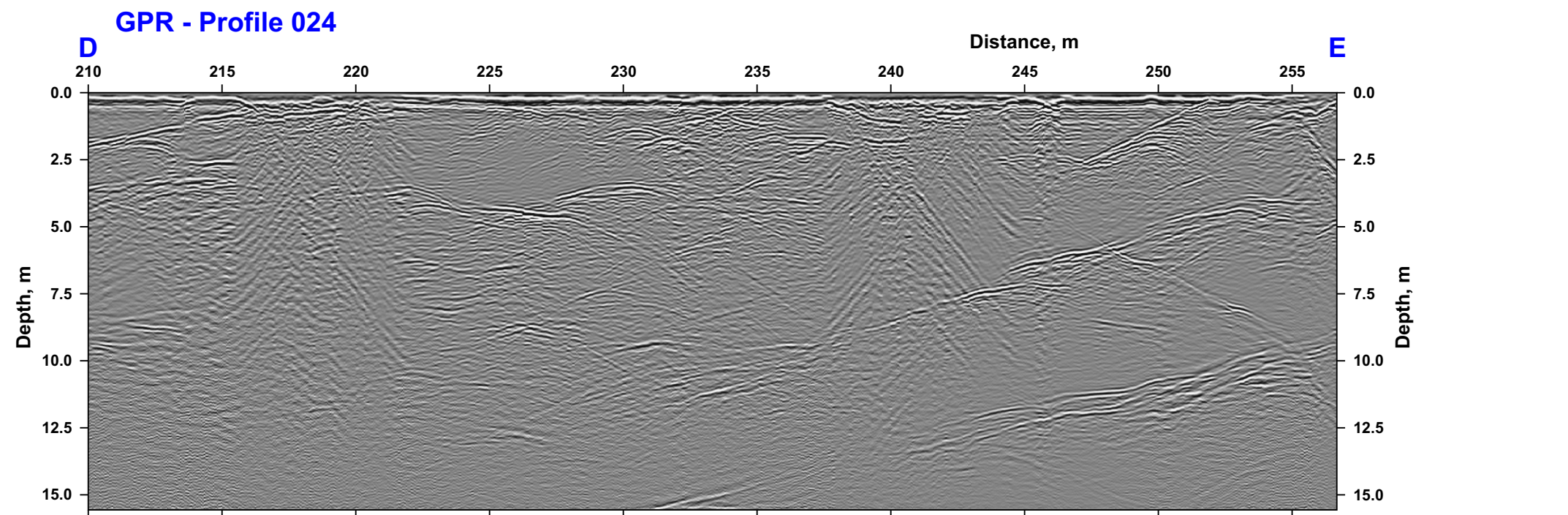
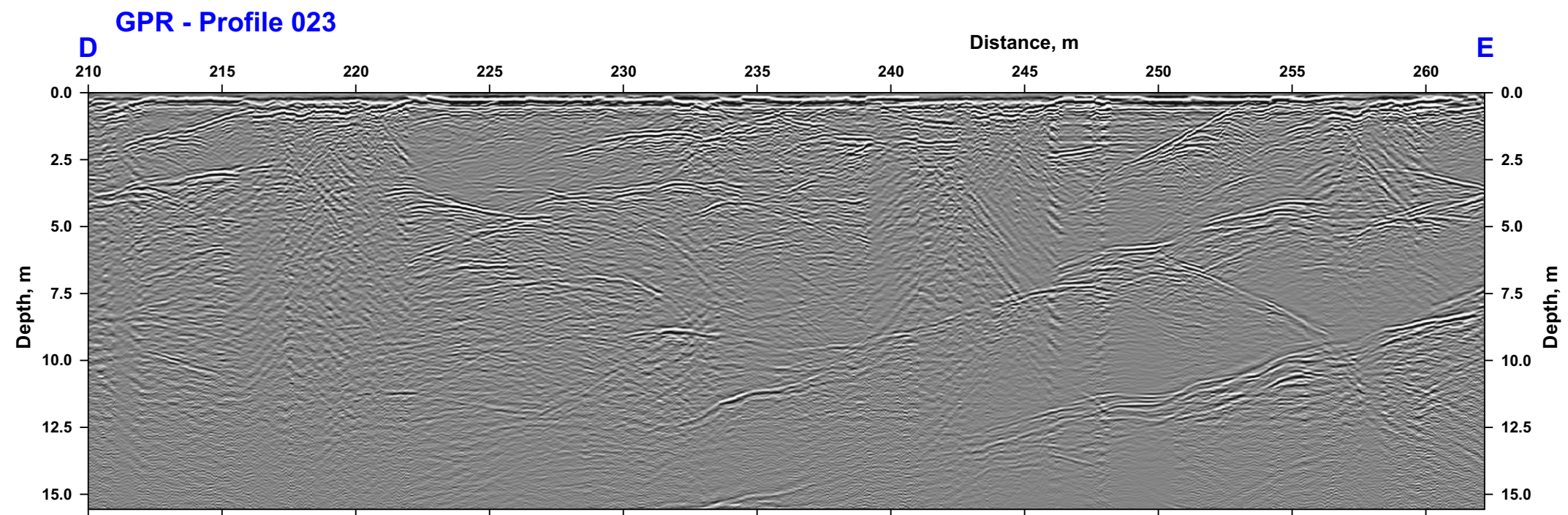


Figure C12 Ground penetrating radar survey using 160 MHz antenna on Profiles 023 and 024 at the Springpole site, ON (Page 4 of 4).

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Location Springpole, ON	Date December 2019



***APPENDIX D***

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***AT WellCAD Logs from the  
2019 Springpole Site Hydrogeological Program***

Table D1 Fracture orientation and apertures for BL-0024 (Page 1 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
6.14	61.22	13.92	0
6.62	192.91	34.95	0
6.84	133.11	16.36	0
6.86	109.65	20.48	16.51
7.03	85.37	32.31	0
7.45	238.53	67	2.73
7.6	128.78	16.34	0
7.79	49.95	31.98	0
7.89	32.72	38.5	0
7.98	17.66	26.17	0
8.06	278.58	51.82	4.93
8.19	66.44	23.38	0
8.28	16.31	39.56	0
8.38	28.46	33.5	0
8.48	2.45	33.89	1.93
8.54	17.62	37.87	0
8.58	18.74	35.66	0
8.66	34.47	18.12	0
8.75	359.58	32.02	3.08
8.79	349.13	29.65	0
8.82	359.74	32.93	2
8.84	282	46.97	0
8.93	349.13	35.41	1.94
9	341.73	27.96	0
9.07	352.81	37.5	2.66
9.12	161.32	20.2	13.38
9.23	348.58	31.57	2.16
9.46	335.56	16.19	0
9.53	357.78	49.73	1.43
9.62	257.26	9.89	0
9.8	15.74	32.5	0
10.08	29.31	15.71	0
10.26	49.04	86.38	1.42
10.56	225.11	89.01	1.77
10.81	6.73	37.4	0
10.84	6.9	37.39	0
10.89	0.72	38.19	2.52
11.01	10.12	46.89	0
11.12	38.11	30.15	3.24
11.19	41.84	16.51	0
11.47	8.71	36	5.32
11.51	25.88	34.16	0
11.79	357.57	40.28	1.57
11.85	358.51	37.46	1.74
11.9	341.54	26.43	5.01
11.92	355.23	30.38	0
12.17	64.98	30.73	0
12.36	10.3	49.15	0
12.39	8.02	49.21	0
12.65	14.95	41.76	0
12.93	96.57	14.76	0
12.94	155.89	47.46	0
13.29	272.09	74.17	0
13.33	278.32	61.32	0
13.35	37.65	9.72	0
13.91	134.08	28.83	0
14.16	49.65	23.73	2.59
14.39	10.28	48.54	0
14.59	252.91	49.87	0
14.6	6.56	49.8	0
15.18	197.01	15.06	0
16.5	282.1	37.32	3.11
16.64	12.9	44.31	1.24
16.76	18.06	49.55	0.89
16.88	22.27	50.36	0.84
16.95	20.22	48.77	0
17.41	44.87	34.17	0
17.58	225.77	83.58	0
17.78	161.17	64.99	0
17.83	226.67	45.3	0
18.14	19.25	44.06	1.26
18.8	25.51	69.96	1.54
19.05	40.13	89.14	2.53
19.25	115.22	44.37	0
19.4	98.36	12.62	3.23
19.89	77.43	19.72	1.5
19.97	71.97	24.56	2.75
20.28	74.16	21.84	0
20.43	268.94	8.08	0
20.49	109.38	16.71	0
21.23	146.07	7.4	3.66
21.27	314.64	48.71	0
21.73	355.45	46.41	0
21.91	57.97	31.62	2.3
21.91	58.13	41.66	1.64
22.01	52.33	23.33	0
22.61	64	33.73	0
23.64	21.05	26.54	0
23.82	210.64	84.45	0
24.04	47.88	39.92	0
24.8	20.11	40.68	0
26.65	3.89	21.98	0
26.8	82.35	30.44	0
27.06	60.02	31.5	2.28
27.23	52	35.17	0
27.62	40.41	41.74	0
27.8	16.8	80.99	0
27.82	73.08	40.87	0
28.04	167.97	64.15	4.38
28.23	94.26	25.26	0
28.76	203.06	71.34	0
28.77	17.16	45.03	0

Table D1 Fracture orientation and apertures for BL-0024 (Page 2 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
28.9	25.17	25.37	0
29.04	66.7	49.82	0
29.38	210.66	57.62	0
29.41	2.14	35.92	0
29.52	71.87	41.68	1.87
29.68	118.7	17.45	0
29.89	69.62	26.48	0
30.08	70.46	26.04	0
30.39	138.09	35.32	0
30.49	169.2	68.5	0
30.55	170.27	73.42	0
30.6	107.34	18.86	0
30.79	206.7	72.21	0
30.88	53.88	56.11	0
31.07	224.07	73.67	0
31.17	181.14	44.22	0
31.32	46.97	37.76	0
32.3	63.24	26.26	0
32.43	46.53	41.05	1.58
32.83	76.72	22.1	0
32.87	205.29	77.35	0
32.92	206.62	65.22	0
33.15	36.38	35.47	1.87
33.25	146.96	10.35	0
33.32	30.91	35.54	1.84
33.49	17.78	29.68	2.19
33.59	255.87	58.6	2.79
33.7	55.67	45.67	1.39
34.03	29.97	37.12	0
34.17	44.23	39.54	0.83
34.17	149.05	43	3.34
34.28	66.26	33.56	0
34.38	33.2	38.05	2.54
34.45	36.67	37.87	1.72
35.05	21.84	30.15	0
35.13	26.02	32.23	0
35.21	30.26	36.34	0
35.7	11.62	49.85	0
36.14	80.19	33.81	2.41
36.26	218.37	43.7	0
36.69	81.05	32.6	0
36.72	12.64	81.12	0
36.85	130.47	47.8	0
37.2	352.56	53.62	0.84
37.25	352.01	49.01	1.74
37.44	5.64	39.29	0
37.67	343.35	35.95	0
38.39	35.17	27.62	0
38.44	65.07	27.99	0
38.49	112.62	26.75	0
38.63	241.43	66.53	0
39.03	359.41	38.12	0
39.35	71.94	21.74	0
39.4	93.36	29.45	0
39.44	93.21	26.23	0
39.51	131.01	32.56	0
39.56	1.68	42.17	1.5
39.8	70.4	27.46	0
39.81	217.2	58.77	0
40	38.6	20.96	2.7
40.13	53.37	33.76	2.09
40.25	78.45	30.84	5.06
40.5	50.43	31.48	0
40.56	61.66	30.95	0
41.47	61.6	22.43	664.44
42.24	41.53	40.99	7.02
42.94	62.11	30.44	0
43.13	55.06	25.32	0
43.53	78.51	14.36	3.2
43.64	61.19	21.96	2.78
43.71	52.61	32.92	0
43.76	33.23	88.97	0.87
43.87	27.65	23.59	0
44.01	37.9	25.1	2.48
44.16	62.4	23.82	0
44.32	116.34	65.29	0
45.36	54.04	36.46	0
45.66	272.04	57.29	0
45.7	119.53	40.26	0
46.46	145.54	15.85	0
47.17	130.11	35.1	1.62
47.46	138.1	19.52	0
47.61	84.3	13.14	0
47.87	103.22	9.56	0
47.93	74.25	23.62	0
48.73	23.61	87.09	0
48.8	4.44	33.68	1
48.85	58.68	26.66	2.52
48.95	2.41	36.25	0
49.14	187.35	73.35	0
49.47	83.04	16.68	0
49.74	67.47	42.13	1.78
49.82	70.39	39.37	0
50.07	47.83	48.46	0
50.17	47.52	33.68	0
50.44	94.29	19.26	4.76
50.55	77.09	37.27	0
51.22	352.07	22.8	2.67
51.38	54.97	27.35	3.68
51.63	92.68	25.48	0
53.45	68.56	27.13	0
54.18	81.98	20.73	3

Table D1 Fracture orientation and apertures for BL-0024 (Page 3 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
54.28	176.24	41.53	0
54.38	91.4	20.99	0
54.44	187.97	54.39	0
54.8	106.95	29.25	6.01
55.15	64.57	29.02	0
55.24	89.31	27.8	0
55.68	88.42	24.89	0
55.78	356.36	50.17	0
55.9	52.75	28.84	0
56.45	74.81	46.97	0
56.85	61.82	41.9	0
58.52	233.35	35.26	0
59.07	49.26	47.42	1.22
59.14	347.86	87.01	0
59.18	203.18	14.03	0
59.3	177.48	40.61	3.74
59.39	169.11	14.86	0
59.56	357.29	48.95	0
59.88	228.44	80.81	0
59.97	6.12	24.18	0
60.07	61.21	20.81	0
60.57	229.52	12.2	0
60.69	52.6	44.6	0
61.01	141.12	4.15	0
61.2	142.22	59.15	0
61.37	87.89	37.63	0
61.51	45.52	38.49	0
61.62	48.11	34	0
61.66	63.46	36.21	0
61.74	178.83	35.48	3.85
61.78	163.47	47.2	0
61.93	92.62	20.65	0
62.11	337.84	47.61	0
62.89	21.97	3.55	3.46
62.93	83.27	10.2	0
63.45	63.33	44.49	2.37
64.4	129.62	18.51	3.54
64.69	25.66	51.87	0.79
64.71	19.76	44.65	0
65.3	75.49	20.13	0
65.86	33.92	41.48	0
66.26	73.63	43.27	0
66.38	31.31	40.25	0
66.44	36.29	43.62	0
66.49	71.55	44.52	0
66.71	77.82	48.58	0
66.85	2.95	19.57	0
67.01	311.87	36.14	0
67.38	13.82	37.42	2.46
67.5	30.69	41.71	1.47
67.56	8.6	31.87	2.1
67.65	86.9	34.56	0
67.84	15.44	40.92	0
68.15	27.55	51.61	0
68.42	44.42	27.19	0
68.7	104.03	25.13	3.09
68.88	26.55	39.7	0.79
69.17	58.79	19.33	4.31
69.6	26.55	45.68	0
69.61	171.19	10.13	3.78
69.66	132.21	17.12	3.58
69.79	41.76	9.78	0
69.84	44.8	28.58	2.32
70.25	141.22	37.4	5
70.29	117.07	21.75	0
70.73	24.94	35.62	0
70.86	53.87	32.26	0
70.91	45.4	35.32	2.89
70.98	83.05	21.11	0
71.39	156.91	31.18	0
71.61	64.58	38.98	2.01
72.06	64.03	30.48	0
72.85	46.42	37.38	0
72.99	64.01	30.04	0
73.02	106.14	19.62	8.19
73.06	76.98	21.91	0
73.18	33.6	38.46	0
73.31	30.14	44.1	0
73.35	44.97	35.36	1.92
73.44	44.92	24.51	2.5
73.49	23.23	23.52	0
73.57	24.46	33.63	0
73.74	21.37	41.91	0
74.04	64.11	31.92	0
74.23	31.97	47.47	0
74.42	28.34	5.7	0
74.5	57.59	10.24	0
74.78	242.68	89.35	0
74.86	64.43	15.75	0
75.12	202.62	54.66	3.55
75.22	96.14	23.03	0
75.4	56.34	49.23	1.16
75.59	21.95	48.24	0
75.77	23.92	44.68	0
75.84	46.09	39.23	0
76.02	343.74	34.43	0
76.1	181.19	88.65	0
76.69	45.11	75.06	0
77.03	41.64	82.43	0
77.48	33.09	24.96	0
77.53	16.83	46.5	0
77.53	43.34	33.2	0

Table D1 Fracture orientation and apertures for BL-0024 (Page 4 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
77.58	47.11	40.31	0
77.71	79.79	25.22	0
77.79	48.36	40.83	0
77.87	37.26	34.7	0
78.09	37.38	34.32	0
78.41	336.53	35.08	2.22
78.57	12.29	21.22	0
78.8	57.28	46.05	1.37
79.2	157.56	48.04	0
80.01	92.03	40.15	0
80.13	121.57	49.2	0
80.31	188.45	54.41	0
80.79	90.57	18.93	0
81.01	184.96	72.65	0
81.28	115.61	19.44	3.37
81.52	19.47	56.64	0
82.19	57.54	30.51	0
82.27	32.57	37.79	0
82.77	177.17	49.65	7.07
82.89	156.12	48.61	0
83.25	148.68	34.51	0
83.67	84.4	47.47	0
83.72	52.92	22.57	2.68
83.97	91.81	40.86	2.22
84	119.67	47.12	1.26
84.11	59.09	32.85	0
84.44	84.57	25.16	12.75
84.68	60.12	33.35	2.16
85.19	356.62	32.38	0
85.55	80.15	31.04	2.52
85.85	59.16	41.09	0
86.05	47.66	35.67	0
86.11	35.81	6.48	0
86.25	53.92	42.72	0
86.54	15.33	46.55	0
86.57	4.31	30.59	0
86.69	51.05	44.2	1.42
86.81	59.29	35.14	2.05
87.2	352.98	33.86	0
87.31	14.62	54.85	0
87.99	302.16	46.32	0
88.26	327.67	52.24	0
88.51	296.8	46.2	0
88.56	245.17	56.97	0
89.15	223.85	59.58	0
90.16	58.9	24.52	0
90.91	73.48	24.88	4.08
91.11	72.72	31.82	0
92.29	210.49	68.84	0
96.07	41.65	53.88	0
96.11	225.43	50.1	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
96.6	91.91	49.27	0
97.48	173.14	42.04	0
98.44	65.34	49.38	0
98.53	66.27	58.46	0.68
98.81	156.45	42.22	0
99.04	208.61	74.79	2.66
99.43	129.88	50.97	0
99.85	168.65	47.22	0
99.87	18.87	54.33	0
100.23	15.63	37.9	0
100.71	37.42	51.01	0.89
101.17	183.17	64.72	0
101.21	180.85	61.24	0
101.3	180.94	55.35	5.01
101.83	41.13	80.59	0
102.02	42.9	46.58	0
102.34	90.81	14.32	8.17
103.14	7.25	34.52	0
103.56	4.23	84.94	0
103.77	36.95	44.2	0
104.03	12.12	26.31	0
104.54	27.14	39.81	1.58
104.8	26.58	46.11	0
105.37	230.26	83.42	0
105.81	19.48	38.01	0
106	22.73	36.97	0
106.22	49.56	46.68	0
106.54	41.97	27.71	0
106.58	38.24	33.27	5.48
106.81	31.59	42.08	0
106.95	24.47	45.56	0
107.04	32.68	39.1	0
107.18	35.63	15.53	2.94
107.61	18.61	41.1	0
107.71	10.38	42.92	0
107.83	23.72	41.38	0
107.9	22.45	40.48	0
108.45	38	41.38	1.54
108.91	26.85	35.05	0
109.35	51.06	32.51	3.21
109.47	48.72	31.72	4.34
110.28	20.99	53.75	0
110.33	33.15	29.71	2.23
110.63	14.13	46.21	0
110.73	4.1	43.85	0
111.11	191.86	67.35	2.95
111.15	50.09	30.77	0
111.61	46.73	38.19	0.89
111.73	22.54	45.65	0
111.95	4.94	43.28	0
112.06	6.62	49.95	0

Table D1 Fracture orientation and apertures for BL-0024 (Page 5 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
112.32	55.05	23.03	0
112.4	79.11	34.31	3.49
112.46	66.17	37.38	1.99
112.6	20.7	48.45	0
112.89	19.42	81.24	0.59
112.91	67.55	30.53	0
113.17	48.64	30.82	2.23
113.43	38.55	24.6	0
113.53	179.61	85.17	0
113.85	45.27	13.44	3.09
114.16	61.41	22.26	0
114.3	135.38	19.9	0
114.38	25.48	12.03	1.5
114.84	254.59	79.19	0
114.89	95.55	19.73	0
114.99	17	16.91	0
115.05	25.59	81	0
115.13	52.64	37.88	0.91
115.26	31.68	38.35	0
115.39	55.09	44.85	0
115.45	241.99	80.65	0
115.64	32.46	39.09	0
115.93	22.28	43.56	0
116.04	43.1	45.57	0
116.36	208.55	87.99	0
117.89	38.26	77.18	0
119.04	42.25	34.82	2.94
119.86	26.78	46.09	0
120.36	201.75	70.35	0
120.58	23.88	41.73	0.75
120.64	20.2	38.53	0
120.86	30.91	32.84	1.03
120.88	51.27	77.23	0
121.22	22.37	47.61	0
121.52	62.57	22.65	2.74
121.63	14.93	50.92	0
121.76	50.14	12.04	0
121.85	350.93	26.55	0
122.01	123.12	11.8	3.53
122.52	220.99	58.75	0
122.61	185.61	58.97	0
123.29	131.16	12.58	0
123.82	89.48	10.1	0
124.12	32.3	84.4	0
124.37	48.31	77.87	1.33
124.64	43.05	76.25	0
124.65	31.66	30.88	0
124.97	98.7	18.36	3.2
125.34	10.72	38.85	0
125.63	58.47	32.11	0
125.68	20.62	55.92	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
125.76	45.54	39.05	0
125.8	58.48	89.5	0
126.07	76.57	19.08	1.5
126.4	63.06	23.61	2.7
126.76	70.41	22.73	0
126.89	48.55	17.01	2.94
127.86	27.15	48.87	0
128.75	59.03	21.94	0
128.96	31.11	49.67	0
129.05	67.74	31.87	2.3
129.3	204.82	78.42	0
129.53	174	15.24	0
130.2	201.88	54.09	0
130.29	57.22	22.17	0
130.33	155.78	19.29	0
130.44	214.33	48.19	0
130.65	33.69	31.06	0
131.07	46.52	25.24	0
131.36	209.72	64.48	92.52
131.55	210.54	61.06	0
131.93	31.13	38.56	0
131.99	220.9	47.69	0
132.31	214.55	57.72	0
132.78	15.86	46.99	0
133.01	15.89	46.44	0
133.62	282.44	70.06	0
133.65	257.93	58.43	0
133.81	32.82	24.5	0
133.98	148.09	18.61	0
134.43	218	73.91	0
134.44	26.2	41.69	0
134.59	189.42	3.97	3.7
135.51	25.91	52.84	0.76
135.82	21.17	38.11	2.64
136.04	20.55	48.74	0
136.14	65.85	35.79	0
136.25	27.39	38.4	0.86
136.33	26.46	53.25	0.74
136.46	41.67	54.37	0
137.26	41.32	31.23	0
137.52	15.17	38.44	0
137.78	30.14	46.89	0
137.82	27.46	40.17	1.61
137.9	40.36	45.84	0.63
138.19	23.71	43.66	0
138.5	22.75	41.31	0
138.62	63.5	36.57	0
138.64	64.17	32.04	0
138.68	63.53	27.1	0
139	201.98	84.92	0
139.03	350.82	51.08	0

Table D1 Fracture orientation and apertures for BL-0024 (Page 6 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
139.36	45.69	52.51	0
139.68	216.12	73.4	0
139.9	38.85	32.42	0
140.21	62.1	35.39	3.07
140.88	26.23	73.98	0
141.44	29.99	57.52	0
141.52	210.84	74.91	0
141.61	202.96	79.98	0
141.75	25.41	83.27	0
141.96	17.82	47.39	0
142.08	214.55	85.28	0
142.26	218.04	70.89	0
142.32	225.8	70.65	0
142.49	22.82	32.57	0
142.73	216.75	68.2	2.96
142.74	27.05	42.21	0
142.77	23.02	42.55	0
142.87	221.72	49.51	0
142.9	17.43	46.49	0
143.03	217.47	49.71	0
143.1	227.2	46.31	0
143.18	209.9	61.77	0
143.22	221.9	42.68	1.91
143.37	28.21	33.3	0
143.55	219.63	81.73	0
143.61	28.46	37.35	0
143.88	227.35	50.46	0
144.73	40.15	82.07	0.61
144.82	12.99	40.55	0
144.91	12.49	47.32	1.22
145.07	63.47	21.02	0
145.28	44.92	34.66	0
145.42	19.42	37.01	1.83
145.58	19.05	42.14	0.76
145.86	34.69	80.11	0
145.89	42.02	25.77	1.24
146.73	178.35	5.71	3.72
146.9	71.15	6.96	3.4
147.08	2.2	33.2	0
148.21	72.02	14.32	3.15
148.59	350.45	39.85	0
148.88	8.64	44.87	1.33
149.49	226.23	60.21	3.26
149.58	245.81	16.23	5.79
149.63	343.21	7.46	0
149.71	258.52	13.14	0
150.22	249.81	21.85	0
150.34	37.8	21.13	0
150.49	41.68	30.37	0
151	212.59	80.24	0
151.45	23.95	27.08	0
151.58	19.15	36.71	0
151.74	16.08	43.85	0
151.95	16.34	39.85	0
152.01	12.46	38.38	0
152.12	23.25	52.37	0
152.47	31.52	37.53	0
152.69	12.94	44.34	0
152.91	23.75	37.09	0
153.07	42.26	6.05	0
153.15	39.47	28.35	0
153.31	205.06	68.44	0
153.52	47.55	31.09	13.26
153.93	13.79	41.03	0
154.39	21.25	47.96	0
154.54	25.6	43.77	0
154.98	66.8	35.93	0
155.08	98.68	34.23	0
155.46	19.19	36.63	0
155.5	219.05	78.49	0
155.85	111	47.52	0
156.1	83.27	22.74	0
156.37	19.48	40.32	0
156.46	156.29	27.27	3.63
156.51	200.17	58.64	0
156.55	198.45	51.12	1.79
156.62	203.45	57.69	1.69
156.84	40.06	22.79	0
157.21	60.22	79.23	0
157.58	28.65	47.21	0
157.7	221.18	75.6	2.57
157.87	21.42	43.67	1.42
157.92	21.53	45.76	1.29
158.01	17.03	34.74	0
158.18	5.04	33.99	0
158.2	6.05	31.14	0
158.23	7.15	33.32	0
158.45	24.59	26.09	1.24
158.48	25.59	29.28	2.29
159.01	5.85	38.52	0
159.14	20.29	38.9	0
159.25	197.49	69.35	0
159.45	25.88	84.91	0
159.7	0.39	35.28	1.04
159.99	23.51	47.55	0
161.13	12.86	43.28	2.27
161.21	12.4	44.98	0
161.56	6.12	38.55	0
161.7	13.49	41.07	0
161.75	12.04	41.43	0
161.8	17.21	45.03	0
161.92	16.98	37.34	0

Table D1 Fracture orientation and apertures for BL-0024 (Page 7 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
161.97	18.97	41.03	0
162.08	12.98	37.87	0
162.13	14.44	38.76	0
162.27	17.27	38.58	0
162.4	66.93	16.41	0
162.49	19.87	41.17	0
162.57	57.95	39.86	0
162.73	15.89	38.67	1.78
162.92	13.88	37.18	0
163	257.56	6.62	3.72
163.26	11.4	38.87	1.79
163.97	27.57	40.23	0
164.02	11.8	41.95	0
164.11	20.92	47.35	0
164.61	17.7	43.66	0
164.7	348.38	38.58	0
164.83	23.79	52.03	0
164.86	27.99	43.63	0
165.38	12.49	35.25	0
165.49	24.15	42.58	0
165.59	198.42	43.13	0.01
165.62	24.05	28.97	1.16
165.73	11.12	39.72	0
165.74	190.33	81.35	0
166.69	137.15	7	3.62
167	4.18	55.33	0
167.18	16.19	48.8	0
167.19	29.87	21.42	0
167.35	13.88	79.11	0
167.73	36.73	27.23	0
167.91	9.07	40.64	0
168.34	16.6	41.42	1.61
168.44	21.6	26.6	2.47
168.5	19.78	28.46	1.18
168.52	14.94	87.34	0
168.99	8.87	48.73	0
169.08	76.33	40.01	0
169.47	161.67	85.77	0
170.6	21.63	43.66	0
171.42	4.97	31.84	0
171.48	20.31	30.86	0
171.64	11.77	41.74	0
172.05	20.97	44.16	0
172.2	26.33	44.25	1.38
172.47	19.41	42.32	0
172.85	22.04	52.86	3.31
174.48	34.54	26.77	2.44
174.66	23.35	51.18	0
174.74	22.95	48.82	0
174.89	12.29	21.48	2.77
175.05	213.24	3.77	3.71
175.26	58.22	15.5	0
175.94	34.36	88.5	1.64
176.22	14.3	51.39	0
176.7	184.49	23.03	0
176.92	349.16	8.4	0
177.57	215.78	66.63	0
177.95	357.24	25.77	0
178.08	4.28	32.97	0
178.35	359.58	21.68	0
179.24	0.94	33.95	1.09
179.35	226.5	10.88	0
179.54	89.56	59.29	0.48
179.97	15.51	38.73	0
180.85	56.89	26.6	2.5
181.27	241.85	63.02	0
181.98	53.34	33.19	0
182.21	84.61	23.1	2.88
182.28	107.17	10.93	0
182.37	70.18	27.95	2.51
182.56	23.9	29.06	0
182.72	54.67	23.22	0
183.04	51.82	2.07	0
184.06	6.68	24.78	0
184.43	354.31	36.12	0
184.58	204.47	13.54	0
184.73	37	18.15	0
184.88	99.96	35.01	0
185.03	25.54	24.79	0
185.19	8.1	38.74	0
185.47	7.74	42.36	1.63
185.74	90.49	11.76	0
186.1	17.01	36.88	0
186.29	11.31	31.26	2.26
186.37	3.95	43.36	0
186.52	10.06	35.88	0
186.77	357.17	35.13	0
186.82	14.84	25.91	0
187.02	70.58	7.26	1.7
187.07	2.48	5.77	1.72
187.52	58.86	34.79	1.03
187.75	23	18.74	0
187.8	34.69	13.12	0
188.16	28.79	33.86	1.01
188.56	10.32	45.16	0
189.5	33.21	14.77	0
189.55	220.75	51.01	0
189.83	10.62	35.72	2.03
190.05	217.93	58.71	0
190.21	224.5	60.9	1.62
190.23	226.07	59.14	1.66
190.44	228.74	60.41	0

Table D1 Fracture orientation and apertures for BL-0024 (Page 8 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
190.6	50.2	27.09	0
190.89	60.99	44.94	0.72
191.11	48.15	30.12	0
191.15	46.51	30.15	0
191.72	22.16	45.47	0
192.24	19.33	32.86	0
192.33	18.9	41.11	0
192.69	135.47	1.56	1.81
192.92	2.58	34.54	0
193.18	35.89	37.12	0
193.51	220.04	78.92	0
193.67	21.84	34.83	0
193.81	24.15	36	0
193.93	87.31	40.21	2.05
194.08	86.12	37.86	0
194.16	122.23	39.24	0
194.44	341.93	26.24	0
194.88	20.01	43.91	0
195.04	210.55	59.64	0
195.29	206.06	79.35	2.33
195.64	248.14	71.8	0
195.97	48.65	33.4	0
196.5	187.43	34.93	0
196.62	176.3	21.35	0
197.22	106.79	11.03	0
197.25	146.87	31.86	1.69
197.45	186	37.18	1.88
197.53	118.98	8.66	0
197.58	172.07	33.29	0
197.74	88.44	20.08	3.02
197.78	122.41	23.69	0
197.85	87.56	24.66	0
198.23	38.32	42.93	0
198.39	25.49	51.72	0
198.51	211.95	42.3	0
198.59	29.32	35.46	0
198.64	19.27	35.32	0
198.67	27.81	27.69	1.21
198.86	25.76	28.52	2.37
199.04	358.1	25.55	0
199.12	0.64	26.71	0
199.51	19.91	28.65	0
199.98	50.99	35.02	1
200.03	33.31	37.7	0.9
200.08	28.75	35.41	1.96
200.19	28.34	26.57	0
200.24	35.04	30.62	0
200.71	290.55	73.94	0
200.93	268.03	58.25	0
201.01	304.92	40.39	1.4
201.94	41.63	57.38	0
201.95	15.94	53.03	0
202.17	12.4	21.88	0
202.2	8.77	21.16	0
202.35	41.72	30.17	0
202.43	351.54	36.16	0
202.5	37.51	30.41	1.12
202.52	215	53.66	0
202.55	42.57	20.48	1.39
202.83	14.44	32.66	0
203.01	22.22	15.02	1.53
203.04	25.28	22.1	0
203.08	41.84	76.89	1.26
203.2	19.02	29.58	0
203.27	16.35	39.34	0
203.42	18.13	30.94	0
203.47	37.85	37.61	0
203.48	326.69	43.66	0
203.63	7.98	29.72	0
203.73	251.84	42.61	0
203.95	10.97	48.69	0
204.09	17.12	49.6	0
204.13	10.47	41.54	0
204.23	48.09	33.22	1.05
204.31	359.53	38.26	0
204.49	19.66	36.63	0
204.61	9.05	37.18	0
205.5	165.32	67.78	0
205.92	207.16	77.57	1.21
206.22	32.06	20.31	0
206.31	25.33	19.84	0
206.39	10.5	23.11	0
206.48	7.96	17.18	0
206.49	180.01	62.4	1.42
206.69	20.96	22.36	0
206.97	17.61	36.85	0
207.19	41.77	82.32	0
207.35	245.76	77.89	1.13
207.61	52.02	83.41	0
207.76	35.52	49.95	0
207.9	29.06	14.56	0
208.14	28.57	33.14	0
208.34	21.97	32.22	0
208.47	351.96	13.38	0
208.51	46.62	34.83	0
208.67	36.98	80.55	0.55
208.69	59.34	22.54	0
208.83	32.91	32.14	1.07
208.9	201.79	86.94	0
208.94	30.43	38.46	0
209.08	14.83	34.56	0
209.18	23.11	33.11	0

Table D1 Fracture orientation and apertures for BL-0024 (Page 9 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
209.36	13.66	37.42	0
209.47	14.3	37.37	0
209.56	16.49	35.53	0
209.6	41.12	83.15	0.63
209.66	14.79	25.43	0
209.71	7.95	33.23	0
209.82	12.48	37.32	0
209.88	6.55	36.39	0
210.08	5.26	33.26	0
210.19	17.77	37.97	0
210.29	217.49	82.01	0
210.29	9.22	35.56	0
210.43	16.81	24.08	0
210.46	14.71	24.66	0
210.51	352.42	23.77	0
210.56	343.16	14.55	1.63
210.63	3.62	30.1	0
210.89	213.38	88.83	1.77
211.3	206.05	88.69	1.73
211.64	341.34	25.54	0
211.75	20.55	32.61	0
211.8	2.57	25.65	0
211.94	23.46	26.99	0
212.33	353.63	10.62	1.66
212.45	4.42	32.84	0
212.51	359.85	14.49	0.01
212.57	354.59	31.6	0
212.68	358.09	23.42	1.39
212.76	190.32	54.87	0
213.04	212.73	78.86	1.18
213.69	239.32	62.33	1.55
214.21	240.09	81.21	1.06
214.41	241.45	32.7	0
215.02	222.29	83.89	0
215.92	99.98	32.65	0
216.14	45.36	38.83	0
216.61	227.73	87.24	1.87
217.17	223.11	55.85	0
217.55	211.87	64.06	0
217.73	64.73	24.97	0
217.81	13.99	42.07	0
217.89	15.55	38.37	0
218.27	17.27	37	0
219.83	9.29	33.45	0
219.91	3.73	29.17	0
220.62	8.72	51.98	0
220.76	5.54	49.63	0
221.57	16.92	47.38	0
221.78	358.66	47.09	0
222.14	340.57	28.37	0
222.53	18.24	33.93	0
222.89	7.36	33.76	0
223.28	213.74	82.23	0
223.44	33.29	42.3	0
223.91	24.97	51.24	0
224.03	16.6	40.35	0
224.08	22.21	47.25	0
224.28	8.34	25.41	0
224.39	323.42	22.23	0
224.46	39.87	40.99	0
224.8	25.46	51.67	0
224.9	3.8	24.41	0
224.99	19.87	43.03	0.78
225.11	34.3	73.19	0
225.21	25.56	30.68	0
225.63	29.58	50.19	0
227.8	31.07	52.7	0
228.05	19.53	51.26	0
228.13	29.63	39.66	0
229.33	28.42	45.81	0
229.95	36.93	42.66	0
230.23	37.33	38.05	0
230.32	40.76	26.77	0
230.4	27.41	47.09	0
230.94	27.08	55.3	0
231.42	29.69	36.93	0.96
231.5	25.52	41.11	0
231.62	30.49	44.2	0.71
231.72	20.59	40.73	0
231.88	27.19	28.97	0
232.05	21.99	49.36	0
233.22	15.15	40.52	0
233.66	24.16	47.31	0
233.73	33.29	44.93	0
233.81	23.52	40.92	0
233.91	28.11	29.7	0
234.15	11.29	51.56	0
234.28	30.59	52.17	0
234.4	18.05	43.38	0
234.76	0.16	36.31	0
234.94	346.08	85.6	0.89
234.95	27.26	42.62	2.34
235.04	16.22	36.55	0
235.46	354.96	41.8	0
236.66	269.47	6.06	0
237.54	40.97	83.91	0
237.57	226.65	71.22	1.4
238.52	324.9	41.57	0
238.76	348.23	42.08	0
238.97	14.33	32	0
239.01	13.66	37.37	0
239.07	351.24	44.26	0

Table D1 Fracture orientation and apertures for BL-0024 (Page 10 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
239.18	357.51	48	0
241.41	13.93	43.87	0
242.09	13.02	43.25	0
242.17	9.24	42.71	2.54
242.9	37.55	25.42	4.12
End			

Table D2 Fracture orientation and apertures for BL-0034 (Page 1 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
9.99	0.25	33.57	0
10.89	17.5	80.2	0
13.28	1.18	43.57	0
14.37	16.88	70.12	0
14.39	218.36	45.47	1.7
15.22	0.67	54.7	0
15.37	35.64	49.39	0
15.65	30.81	36.33	31.6
15.89	17.34	50.69	2.84
18.11	13.16	9.19	0
18.83	312.95	13.8	0
20.04	356.23	11.74	0
20.75	17.05	80.13	0
21.98	349.86	50.97	0
22.21	11.63	69.67	0
22.28	31.56	66.76	0
22.7	1.39	80.18	0
23.01	19.1	47.84	0
23.12	25.77	76.72	0
23.31	2.52	86.99	0
24.25	26.76	76.77	0
24.3	350.06	10.13	2.91
24.79	18.66	36.62	0
25.28	2.78	83.02	0
26.81	180.15	21.64	0
27.47	352.1	24.06	0
27.74	22.33	26.26	0
28.18	266.35	5.86	0
28.89	27.95	85.48	0
29.21	325.69	20.98	0
29.7	4.35	8.08	0
29.89	89.99	17.36	0
30.74	32.9	21.88	0
31.36	58.92	52.99	262.35
32.06	337.76	19.96	1.46
32.13	25.56	10.02	3.91
32.2	299.02	21.16	21.8
32.24	38.08	35.36	2.96
33.34	71.54	23.78	0
34.64	26.15	41.34	0
34.89	6.32	61.14	0
35.45	27.38	49.66	9.49
35.48	47.46	34.71	0
36.2	19.8	43.35	0
36.91	23.25	26.23	0
37.02	37.65	30.44	0
37.59	256.27	28.83	0
37.99	43.02	50.21	0
38.73	23.37	26.23	0
38.83	18.54	71.23	0
39.09	37.25	75.58	0
41.39	5.75	8.23	0
41.4	358.01	32.64	0
42.7	232.04	11.75	0
43.67	34.01	45.1	0
43.73	42.04	66.19	0
43.78	40.13	67.66	2.46
44.66	270.92	40.89	0
45.12	59.07	83.33	0
45.21	338.56	23.85	0
45.69	312.49	9.09	0
47.82	194.35	23.85	0
48.96	28.06	23.3	0
49.92	278.23	16.94	1.33
51.71	91.71	18.8	0
51.94	32.95	28.31	0
53.19	143.39	43.13	0
54.39	60.31	75.79	0
55.02	27.18	27.02	0
55.21	37.95	61.7	0
55.59	47.2	55.11	1.35
55.82	61.53	76.29	0
56.99	124.52	22.19	0
58.24	293.84	7.84	0
58.56	76.75	59.54	0
59.2	80.71	57.69	0
60.25	71.43	62.38	0
60.55	86.47	41.47	0
60.95	87.43	53.49	0
63.03	23.02	44.38	0
63.09	351.32	77.12	1
63.11	62.89	34.51	2.88
64.32	306.03	25.46	0
64.66	241.12	21.18	0
64.95	59.95	40.29	0
65.63	27.52	80.09	0
66.91	56.79	63.54	0
67.2	15.55	62.94	0
67.88	304.94	86.9	0
69.79	59.71	67.42	0
70.6	89.92	22.22	0
70.89	144.78	5.38	0
71.05	53.25	40.38	0
72.06	48.16	48.03	0
75.12	341.18	53.89	0
76.05	352.98	78.29	0
76.55	76.64	16.98	3.86
76.56	80.09	30.57	0
76.84	136.13	25.06	0
76.86	174.45	44.57	0
76.96	115.12	13.64	0
77.36	52	14.82	0

Table D2 Fracture orientation and apertures for BL-0034 (Page 2 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
78.69	58.72	32.33	1.46
79.28	84.1	35.56	1.38
80.31	22.77	28.58	0
80.37	73.73	9.51	3.84
80.53	233.88	30.69	0
81.25	296.52	70.34	0
81.91	13.72	84.43	1.87
82.48	42.91	71.92	0
82.71	346.2	3.67	0
82.87	66.75	48.67	0
83.25	89.66	32.58	0
83.5	223.63	85.64	0
85.01	67.38	69.17	0
85.1	188.46	42.94	0
86.1	43.79	58.65	0.01
86.61	89.14	82.82	0
86.96	198.01	36.41	0
87.09	125.35	50.41	0
87.96	219.97	35.68	0
88.46	66.03	59.65	0
89.88	359.75	19.11	1.48
89.95	352.58	32.29	0
91.84	93.08	78.53	1.88
92.19	277.7	20.25	1.29
94.07	250.11	87.46	1.49
95.01	184.72	19.85	0
96.92	349.05	33.46	0
97.86	64.2	67.89	0
98.4	348.28	85.72	0
98.67	203.34	30.35	0
98.76	98.27	60.27	0
99.62	233.41	54.93	0
100.18	354.59	80.17	1.89
101.07	82.93	53.78	0
101.52	262.68	27.43	0
102.2	96.08	57.35	0
102.39	240.29	50.62	0
103.96	255.58	37.64	0
106.32	190.11	86.51	0
106.76	40.87	53.55	0
107.12	68.09	65.04	0
107.39	12.35	36.63	0
109.38	26.28	89.73	0.84
110.28	61.53	57.85	0
110.87	78.6	23.84	3.86
114.66	356.35	86.41	0
115.23	316.92	25.91	0
116.67	24.49	52.75	1.41
117.66	33.16	83.7	0
118.11	340.23	77.08	0
119.97	347.81	89.29	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
125.53	45.54	37.65	0
126.83	212.04	81.41	0
128.1	338.86	89.82	0
128.89	323.74	42.01	0
131.45	19.31	32.84	1.5
131.47	33.63	49.08	0
133.13	150.01	13.23	0
133.44	45.91	83.56	0
133.96	306.86	72.19	0
134.86	26.71	10.04	0
135.12	92.66	63.61	0
136.25	22.57	54.2	0
136.61	34.45	46.44	0
137.24	353.79	37.68	0
138.32	344.62	41.07	0
140.71	175.64	41.36	0
140.73	158.84	83.39	0
141.16	79.52	41.93	0
141.34	337.74	87.01	0
142.05	162.51	33.06	0
142.33	107.7	26.53	0
143.39	263.42	31.38	0
146.54	228.78	16.48	0
149.1	199.39	26.13	0
156.53	27.32	50.64	0
156.87	26.2	66.16	0
158.46	25.95	21.92	0
159.47	68.98	71	0
164.56	50.7	73.69	0
166.05	28.06	18.77	0
167.55	38.69	53.59	0
172.91	236.6	33.45	1.88
174.95	118.69	61.53	0
176.34	38.26	24.43	0
176.51	36.76	79.79	0
176.78	344.21	40.29	0
177.3	349.82	29.49	2.88
179.3	6.28	41.96	0
182.26	5.54	42.32	0
182.78	12.62	38.41	0
185.47	40.26	46.82	0
186.38	281.04	44.16	0.97
189.77	50.22	66.55	0
190.22	6.72	41.31	0
190.41	0.09	37.54	0
190.55	26.96	46	0
190.87	38.29	60.53	0
191.8	29.66	53.31	1.42
193.55	18.62	20.11	1.49
193.71	28.01	37.27	0
193.81	37.59	40.21	0

Table D2 Fracture orientation and apertures for BL-0034 (Page 3 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)	Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
195.48	38.97	87.6	0	234.44	31.58	24.57	0
201.57	178.79	32.3	0.95	234.61	42.71	53.94	0
205.35	245.2	56.57	0	235.74	358.15	71.28	0
205.88	42.06	24.47	0	235.9	139.86	10.06	0
206.72	100.42	59.03	0	238.11	225.22	82.46	0
206.92	25.16	51.9	0	239.72	57.87	75.26	0
207.46	267.35	29.09	0	239.89	21.62	76.19	0
207.96	208.32	52.02	0	241.01	77.13	73.15	0
209.58	147.16	35.34	0	243.02	117.67	32.75	0
210.74	306.16	85.69	0	243.09	120.12	34.51	0
211.28	233.78	40.57	0	243.68	165	42.68	0
211.66	118	6.71	0	244.73	65.94	10.2	0
213.27	28.52	32.71	0	245.44	117.3	73.57	0
213.72	88.65	64.47	0	246.76	153.34	30.87	1.07
214.66	331.38	11.22	0	247.55	38.69	84.32	0
215.2	78.37	64.68	0	249.12	109.02	57.05	0
216.27	28.64	28.52	0	252.01	74.82	37.22	0
216.4	84.06	33.69	0	254.33	53.37	51.95	0
216.75	24.45	64.95	0	254.53	47.62	49.29	1.42
216.83	26.81	58.52	0	254.59	52.62	67.01	2.5
218.09	46.87	16.85	0	254.62	27.9	51.71	0
218.13	103.61	8.3	0	254.73	39.41	49.53	2.88
218.47	51.05	40.1	0	255.73	54.92	59.5	0
219.03	312.98	71.42	0	255.92	125.86	69.66	0
219.75	51.72	16.42	1.48	256.75	135.99	68.53	0
219.78	104.01	24.94	0	259.48	86.01	77.25	0
219.81	131.89	24.99	0	262	80.96	21.32	0
220.28	221.63	23.82	0	262.08	128.04	73.16	0
220.37	49.78	29.58	35.6	266	36.32	60.04	0
220.59	89.98	22.65	1.41	266.45	107.18	39.81	0
220.66	88.69	26.46	0	268.01	29.4	3.25	0
220.73	37.14	81.77	0	268.19	0.22	85.69	0
220.89	104.44	20.9	0	270.61	172.91	83.08	0
221.26	356.69	3.61	0	271.73	222.51	88.46	0
222.43	38.3	25.32	0	274.58	221.7	2.3	0
222.68	41.62	42.17	0	275.01	76.13	38.48	0
223.15	27.33	71.78	0	275.14	98.23	3.37	0
223.26	131.01	36.27	0	275.79	99.45	88.28	0
223.37	110.64	27.68	0	276.14	180.9	12.01	0
223.95	200.13	29.95	0	276.81	236.42	86.36	0
224.4	86.02	77.44	1.63	280.13	57.84	28.62	0
224.48	41.76	41.29	0	282.77	240.49	76.07	0
224.66	73.2	73.82	0	285.96	39.95	74.25	0
225.44	43.75	45.75	0	287.02	180.91	18.99	0
225.59	92.72	77.63	0	290.46	197.02	89.06	0
226.61	85.87	75.5	0	293.86	15.46	85.16	0
227.45	48.55	14.36	0	296.45	31.03	87.6	1.96
227.62	45.99	26.34	0	298.18	3.98	85.42	0
227.76	124.67	42.58	0	298.4	186.1	84.27	0
227.99	33.99	41.8	1.47	299.59	238.25	86.01	0
229.12	41.08	35.37	0	301.3	161.54	86.31	0

Table D2 Fracture orientation and apertures for BL-0034 (Page 4 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
301.35	162.2	88.86	0
303.85	34.29	65.51	0
304.8	8.58	74.91	1.15
304.82	100.6	14.34	0
304.98	35.76	66.49	1.29
305.14	225.06	73.58	0
305.14	36.74	83.54	0
306.88	7.1	32.21	0
307.19	19.33	77.85	0
308.69	16.56	24.89	0
312.5	32.15	75.59	0
312.79	25.93	68.34	0
314.41	29.27	86.91	0
314.7	35	77.4	0
314.9	44.62	60.77	0
315.79	317.61	17.88	0
315.85	283.3	19.02	0
315.86	26.82	71.75	0
315.96	28.88	64.9	0
316.23	41.2	21.72	0
316.87	34.39	79.9	0
317.49	357.05	67.53	0
319.81	22.04	64.53	0
320.74	43.95	73.65	0
320.77	33.71	81.66	0
321.28	156.45	33.09	0
322.91	84.71	63.98	0
323.86	41.98	67.52	0
324	134.31	20.1	0
325.4	15.1	47.51	0
325.53	3.89	59.16	0
326.69	223.56	81.35	1.3
328.91	20.01	19.22	0
330.42	308.26	18.49	0
331.08	259.31	20.08	0
333.61	297.58	42.09	0
335.38	304.58	16.92	0
336.22	269.94	41.85	0
338.19	53.66	79.22	0
338.26	45.17	81.8	0
338.92	35.21	57.61	0
341.06	53.1	69.85	0
341.77	20.13	36.46	0
341.81	46.49	34.33	0
342.67	4.55	23.09	0
350.89	41.78	60.7	0
352.31	10.88	48.51	0
352.35	317.11	49.51	0
353.2	1.22	47.92	2.88
353.79	4.48	22.58	0
354.17	243.01	80.92	0
355.64	334.42	76.08	0
356.71	44.59	85.27	0
356.73	120.21	75.69	0
358.4	26.41	74.94	0
359.44	332.75	34.3	0
360.56	77.13	55.36	0
360.62	99.92	63.3	0
361.15	1.71	58.42	0
371.08	38.55	35.55	0
372.37	33.71	75	0
372.4	30.09	86.17	2
372.65	15.3	71.81	1.21
375.71	35.88	39.04	0
376.57	241.32	9.78	3.86
378.19	19.45	47.57	0
378.36	336.63	68.93	0
378.98	48.78	18.84	0
379.03	53.42	3.59	0
379.47	29.98	11.34	0
380.4	339.48	36.63	0
381.98	43.28	59.7	0
382.33	31.7	52.6	0
382.74	51.37	51.93	0
383.6	48.36	73.33	1.21
384.75	42.5	86.88	0
386.31	252.58	83.55	0
386.67	34.43	63.99	0
386.71	31.33	52.63	0
387.86	61.29	47.82	0
388.87	247.18	15.51	0
389.04	90.48	67.24	0
389.12	3.58	32.07	0
389.57	105.64	40.62	0
389.76	63.32	61.19	0
389.89	69.16	63.38	3.71
389.97	49.89	41.86	0
390.04	92.19	38.33	0
390.53	42.57	66.03	0
390.56	14.51	57.85	0
390.84	5.64	63.73	0
390.87	10.6	57.19	0
391.17	8.21	50.67	0
391.19	11.26	47.85	2.88
391.35	49.63	36.38	0
391.43	344.76	29.38	0
391.82	67.54	60.52	0
391.88	49.94	65.65	2.58
392.04	1.65	14.98	0
392.33	147.81	7.27	2.67
392.5	83.32	47.62	0
392.6	70.74	61.01	0

Table D2 Fracture orientation and apertures for BL-0034 (Page 5 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
392.65	87.26	65.02	0
393.85	40.48	71.87	0
394.23	158.87	5.5	0
394.64	57.29	54.68	0
395.31	28.34	23.51	0
395.5	15.32	26.25	0
396.29	20.09	50.47	0
396.52	16.18	56.23	0
396.61	321.89	23.53	2.72
396.76	32.73	57.64	1.39
396.78	18.09	72.69	2.44
397.01	11.13	48.38	0
397.08	34.48	67.1	3.92
397.36	319.03	38.53	5.09
398.92	223.97	15.83	0
399.64	354.34	26.5	4.39
399.88	40.94	42.24	2.94
401.41	65.12	67.71	0
401.44	328.46	11.98	0
402.49	135.63	28.41	0
407.94	1.11	42.32	0
408.13	10.23	52.81	2.81
408.63	22.36	48.5	0
410.35	219.27	78.02	0
410.62	355.32	37.72	2.9
410.8	297.72	31.13	0
411.12	18.99	60.08	0
411.27	32.88	53.19	0
411.3	36.29	60.56	2.71
411.34	30.78	68.43	1.28
411.52	358.64	37.28	0
411.72	35.96	51.85	0
412.05	17.71	39.61	0
412.18	33.37	51.63	0
412.23	32.76	52.05	0
412.72	49.1	83.36	444.18
413.08	242.19	17.85	0
413.15	32.71	44.51	0
413.19	23.76	38.93	0
413.2	256.55	36.04	0
413.24	14.07	19.23	0
413.28	349.36	20.64	0
413.3	336.58	15.47	0
413.36	356.55	23.97	0
413.37	321.83	19.6	0
413.43	288.81	28.52	0
413.46	10.07	34.72	0
413.56	14.33	36.15	2.95
413.8	48.91	86.63	0.97
414.17	228.71	38.47	0
414.22	8.71	47.65	0
414.3	227.67	33.9	0
414.45	10.48	30.07	0
415.04	6.34	12.41	0
415.1	229.23	73.34	0
415.24	237.64	22.1	0
415.37	223.05	19.5	0
415.49	216.81	30.19	0
415.51	278.2	85.3	0.56
415.91	221.9	39.68	0
416.56	246.28	23.8	0
416.66	234.98	33.82	0
416.8	49.02	27.06	0
417.22	211.36	46.46	0.89
417.72	224.63	41.47	1.78
418.06	216.72	44.69	0.99
418.63	38.22	52.59	0
418.86	43.05	83.09	0
418.95	30.92	58.89	0
419.06	25.79	82.24	0
419.14	31.46	63.34	0
419.27	26.67	42.79	0
419.61	316.59	26.07	0
419.65	225.4	46.96	0
420.22	54	48.65	0
420.34	65.23	54.52	0
420.58	242.77	30.36	1.88
421.13	241.79	28.61	2.93
421.31	221.53	39.76	0
421.84	227.62	42.81	0
422.23	303.27	29.27	0
422.61	224.83	46.16	0.93
422.72	221.05	45.95	0.93
423.63	223.23	41.24	1.85
423.65	210.14	41.79	1.17
423.85	217.04	45.86	1.39
424.14	242.45	19.05	0
424.15	224.7	42.17	1.18
424.38	221.72	30.03	0
424.58	218.98	36.98	1.47
424.63	200.11	25.72	0
424.79	228.81	44.84	0
424.8	233.49	34.91	0
424.99	228.27	39.05	2.08
425.06	38.13	75.97	0
425.67	213.07	42.23	0
425.84	213.81	40.74	0
426.07	202.16	40.75	0
426.2	277.32	22.82	0
426.24	22.67	82.68	0
426.38	33.2	38.02	0
426.39	30.01	83.41	0

Table D2 Fracture orientation and apertures for BL-0034 (Page 6 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)	Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
426.43	30.99	60.03	1.37	432.15	47.84	59.68	6.84
426.47	23.74	37.98	0	432.21	250.03	40.15	0
426.57	41.57	70.31	0	432.24	240.24	28.64	0
426.64	30.61	71.42	2.5	432.55	223.24	40.95	3.09
426.74	36.78	42.6	0	432.58	46.58	70.39	0
426.85	31.02	45.43	0	432.71	217.22	34.14	0
426.92	30.35	54.04	2.84	432.76	131.5	8.36	0
426.96	28.59	60.46	2.74	432.93	229.38	30.42	0
427	1.24	35.75	4.39	433.03	34.28	64.55	0
427.15	77.65	51.05	5.2	433.03	245.05	38.58	0
427.24	357.57	20.22	4.38	433.35	230.43	32.04	0
427.39	4.4	57.01	0	433.43	241.96	17.53	0
427.56	12.44	79.6	0	433.66	238.42	20.76	0
427.64	27.94	65.44	0	433.79	247.74	20.56	0
427.67	22.71	69.64	0	433.92	53.74	49.16	0
427.69	19.34	60.35	5.46	433.94	204.49	24.43	0
427.77	1.67	44.18	4.31	433.94	251.48	30.96	0
427.79	336.44	31.27	0	434.04	323.01	6.24	0
427.84	18.7	49.51	4.33	434.09	15.36	56.29	0
427.88	4.64	50.17	0	434.14	12.56	63.01	0
428.54	15.75	37.76	955.58	434.21	256.24	26.39	0
429.16	22.34	79.34	2.25	434.33	41.75	89.71	2.76
429.66	35.94	61.09	692.16	434.38	350.09	11.56	0
430.17	57	12.94	0	434.42	227.26	41.25	0
430.25	172.02	6.45	0	434.54	27.07	82.15	0
430.39	40.85	64.28	1.33	434.69	247.98	23.54	0
430.45	207.13	35.48	0	434.7	18.07	55.93	0
430.51	37.02	30.06	0	434.73	219.73	26.6	0
430.6	26.82	77.74	2.32	434.86	227.99	18.36	0
430.64	240.86	37.34	1.53	434.94	238.69	15.68	0
430.75	264.83	8.65	0	435	39.65	13.82	0
430.81	44.49	58.79	0	435.03	127.57	16.16	0
430.86	242.18	23.89	0	435.12	229.36	18.24	0
431.09	211.78	22.39	0	435.24	213.46	21.63	0
431.15	294.55	4.19	0	435.33	183.49	23.08	0
431.19	335.39	4.74	4.15	435.4	29.08	76.27	0
431.2	40.11	35.2	0	435.48	40.81	57.12	0
431.26	26.72	13.06	4.36	435.52	236.74	23.79	0
431.44	233.08	22.63	2.13	435.76	229.2	27.48	0
431.5	219.24	7.48	1.29	435.83	215.45	34.6	0
431.58	241.58	7.01	2.6	435.97	227.94	39.94	0
431.62	274.65	14.42	0	436.04	213.79	39.87	0
431.67	35.47	27.91	0	436.15	235.13	40.94	0
431.7	15.53	8.07	0	436.24	58.51	52.86	0
431.76	348.29	15.56	2.88	436.39	215.57	35.53	0
431.82	225.81	27.9	0	436.59	226.85	46.27	0
431.87	12.81	18.6	0	436.69	24.24	75.37	0
431.94	168.07	7.41	7.91	436.78	225.75	34.8	0
432	35.53	35.45	0	436.88	190.42	10.43	0
432.04	46.6	42.98	0	437.14	219.27	42.3	0
432.09	42.44	30.25	0	437.38	223.11	39.66	1.25

Table D2 Fracture orientation and apertures for BL-0034 (Page 7 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
437.84	244.01	34.81	0
437.98	151.91	4.36	0
438.24	40.28	74.25	0
438.3	45.11	68.3	2.57
438.43	327.4	13.32	0
439.03	47.37	75.55	0
439.11	22.29	85.41	0
439.19	13.56	39.95	0
439.34	55.39	26.38	2.96
439.4	22.18	33.94	2.98
439.46	8.67	56.26	0
439.59	68.31	19.75	8.75
439.63	103.63	6.37	1.38
439.74	230.85	8.21	0.03
439.78	355.43	23.96	0
440.11	219.13	82.46	0
440.21	36.73	86.15	0
440.51	213.54	79.61	0
440.6	252.76	38.78	0
440.92	237.06	85.57	0
441.06	44.18	80.48	0
441.14	221.98	34.53	0
441.22	266.75	37.21	0
441.8	255.1	25.24	0
442.15	258.94	24.88	2.17
442.29	252.61	41.22	0
442.33	205.92	75.75	0
443.07	233.58	25.44	0
443.11	252.46	31	0
443.44	311.95	50.74	0
443.54	237.98	28.33	0.96
443.57	241.29	29.61	0
443.72	223.31	37.91	0
443.74	59.01	78.45	0
443.92	346.96	52.67	0
444.09	62.27	65.58	0
444.13	239.84	33.21	0
444.52	280.12	17.69	0
444.61	294.05	6.13	0
444.87	14.2	25.25	0
445.7	8.48	10.5	0
445.75	202.41	77.25	0
445.78	2.85	19.78	0
445.82	26.49	49.77	0
445.91	38.85	89.14	0
446.02	24.69	71.72	3.73
446.06	13.84	12.19	2.89
446.24	223.69	31.01	2.61
446.35	4.36	21.05	0
446.4	349.9	41.37	0
446.62	19.24	62.99	2.69

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
446.68	45.48	39.14	0
446.79	1.19	69.93	0
446.89	8.22	55.66	0
447.03	296.77	23.59	0
447.18	228.37	46.41	0
447.18	9.69	42.06	0
447.24	3.47	57.51	0
447.3	25.44	49.03	0
447.31	229.64	37.07	0
447.4	7.23	74.67	0
447.46	276.29	23.81	0
447.53	359.57	36.9	0
447.59	0.42	28.81	0
448.42	348.94	78.76	0.94
448.5	18.48	24.05	0
448.74	26.72	39.19	0
448.75	15.94	16.46	0
448.96	35.92	81.13	3.34
449.47	57.93	78.86	0
449.58	104.17	3.17	4.14
449.65	17.88	7.68	1.42
449.73	99.02	29.15	4.11
449.85	28.4	81.51	2.19
450.23	92.17	56.66	1.19
450.25	250.87	15.93	0
450.32	147.62	10.5	2.62
450.34	31.09	47.47	0
450.44	255.12	21.1	0
450.49	222.27	17.68	0
450.52	254.82	15.55	0
450.58	231.27	19.68	0
450.65	170.72	37.8	1.68
450.81	227.38	28.15	3.76
451.22	189.9	24.45	0
451.4	154.31	31.93	0
451.42	15.7	42.39	0
451.48	108.01	14.82	0
451.53	115.12	14.7	0
451.58	113.4	9.76	5.48
452.53	358.83	27.33	0
452.67	226.49	24.48	0
453.14	22	61.36	0
453.38	165.56	2.15	0
453.43	353.18	5.16	0
453.65	78.64	14.5	0
453.74	64.77	8.19	0
453.83	203.12	19.51	0
453.86	213.29	20.6	0
453.92	12.19	30.39	0
454.43	123.5	9.88	0
454.63	299.58	10.14	0

Table D2 Fracture orientation and apertures for BL-0034 (Page 8 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
454.84	213.91	15.31	2.37
454.92	279.32	28.73	2.25
455.01	211.61	26.87	0
455.22	274.19	5.68	8
455.27	254.62	8.78	0
455.34	260.64	21.16	0
455.45	326.94	10.27	62.79
455.55	208.49	19.94	0
455.81	231.77	27.07	0
455.86	228.5	21.05	0
456.04	17.58	87.49	0
456.05	215.79	28.76	0
456.5	243.84	40.77	0
456.64	225.86	36.92	0
456.79	216.47	42.4	0
456.87	68.4	31.39	0
457.25	234.01	36.35	0
457.51	235.28	34.81	0
457.61	8.74	85.23	0
457.73	145.6	24.41	0
457.85	228.06	18.35	0
457.89	111.24	15.33	2.72
457.98	353.84	20.09	5.76
458.05	339.45	32.27	2.73
458.43	173.21	14.45	65.11
458.51	38.25	88.4	43.48
458.75	29.22	63.24	0
459.17	223.13	35.26	120.02
459.39	349.69	64.6	0
459.51	40.66	30.32	4.48
459.61	221.89	9.64	0
459.64	268.51	14.51	0
459.69	239.27	0.76	0
459.74	233.8	16.26	0
459.81	252.47	10.69	0
459.85	218.67	23.59	0
459.94	221.07	34.05	0
460	40.56	43.95	5.89
460	228.07	38.76	0
460.16	204.31	30.17	0
460.23	223.07	20.04	0
460.25	66.94	33.93	2.91
460.29	104.65	24.31	0
460.56	82.93	47.92	8.04
460.6	51.43	64.7	11.91
460.66	95.96	17.55	0
461	236.33	36.74	0
461.11	213.29	40.16	0
461.23	212.56	20.95	0
461.36	231.06	28.33	0
461.41	6.15	82.42	0
461.46	214.63	25.15	0
461.52	217.43	27.96	0
461.59	224.11	26.49	0
461.7	239.74	25.55	0
461.82	224.6	22.61	0
461.95	235.71	25.9	0
462.1	233.75	35.05	0
462.19	199.72	39.34	0
462.26	220.86	36.55	0
462.32	223.53	36.34	0
462.49	329.33	67.84	0
462.57	228.09	33.87	0
462.66	238.03	35.33	0
462.81	226.2	21.41	2.13
462.86	230.37	31.43	0
462.89	239.27	35.29	0
462.94	253	36.51	0
463.01	241.52	36.35	0
463.08	225.8	29.01	0
463.18	218.51	29.75	0
463.26	223.55	34.76	0
463.34	231.31	35.36	0
463.4	229.13	36.27	0
463.49	226.35	29.09	0
463.57	225.8	30.33	0
463.63	234.08	29.46	0
463.87	213.2	26.97	0
463.99	218.14	30.26	0
464.04	218.15	29.92	0
464.19	216.65	31.16	0
464.26	188.44	18.34	0
464.45	209.76	24	0
464.51	217.85	25.45	0
464.64	217.27	25.03	0
464.7	220.23	33.96	0
464.78	210.54	32.11	0
464.81	214.2	31.43	0
464.91	216.63	33.97	0
464.98	218.7	29.53	0
465.07	208.72	23.01	0
465.12	219.01	30.78	0
465.25	230.51	22.51	0
465.43	218.37	19.82	0
465.69	59.36	70.56	0
465.71	230.36	36.59	0
465.83	232.24	33	0
465.88	36.75	80.28	4.5
466.21	331.8	88.41	0
466.67	25.95	38.36	0
467.68	221.25	35.05	0
467.96	243.6	34.81	0

Table D2 Fracture orientation and apertures for BL-0034 (Page 9 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
468.29	228.57	26.23	0
468.34	216.24	27.27	0
468.42	222.27	30.67	0
468.5	44.83	52.43	0
468.55	235.97	35.43	0
468.58	231.85	31.84	0
468.62	221.3	28.34	0
468.65	221.08	32.62	0
468.71	223.88	30.98	0
468.74	219.99	30.84	0
468.84	13.05	24.71	0
468.84	232.18	33.13	0
468.92	227.51	32.24	0
469	226.98	33.07	0
469.11	198.44	31.92	0
469.2	220.93	33.67	0
469.33	231.17	35.06	0
469.5	235.63	39.03	0
469.64	233.78	34.13	0
469.7	228.93	38.51	0
469.74	236.86	39.69	0
469.79	237.12	37.39	0
469.93	234.16	36.76	0
470.1	221.51	37.66	0
470.25	217.26	37.83	0
470.44	213.74	24.85	0
470.61	44.78	48.92	2.91
470.64	238.89	32.79	0
470.81	191.26	17.34	0
470.89	219.08	30.77	0
470.95	232.51	29.3	0
471	224.16	43.51	0
471.05	223.27	18.17	0
471.07	230.53	14.8	0
471.12	223.99	27.82	0
471.19	232.86	25.34	0
471.23	224.45	20.07	0
471.31	190.89	24.51	0
471.37	233.55	27.31	0
471.43	224.17	21.92	0
471.46	225.37	23.3	0
471.54	219.03	26.16	0
471.74	216.59	22.78	0
471.85	189.58	13.45	0
471.97	227.17	25.83	0
472.01	234.02	31.61	0
472.13	243.45	36.85	0
472.18	173.43	14.06	3.68
472.29	21.2	87.44	0
472.4	35.96	51.71	0
472.62	34.58	46.17	19.26

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
472.72	20.17	40.23	0
473.1	221.23	27.54	0
473.13	215.14	30.79	0
473.24	147.19	41.57	0
473.26	44.43	71.47	0
473.34	233.51	25.97	0
473.55	35.17	79.87	1.13
473.63	62.23	77.57	0
473.73	138.55	37.83	0
473.77	206.51	49	0
473.99	159.38	27.74	0
474.09	184.68	31.28	0
474.17	203.87	33.75	0
474.25	205	30.47	0
474.33	210.4	37.38	0
474.44	209.82	26.89	0
474.6	217.74	41.02	0
474.63	216.98	34.75	0
474.75	222.42	31.05	0
474.82	224.02	27.51	0
474.97	188.41	42.4	0
475.06	168.52	34.36	0
475.09	61.8	77.15	16.5
475.28	21.88	79.24	2.25
475.5	208.77	28.27	0
475.57	19.61	56.84	0
475.57	210.79	29.33	0
475.73	194.14	21.89	1.07
475.86	344.19	24.36	0
476.01	207.05	25.22	0
476.14	221.55	22.06	0
476.37	29.21	68.1	2.6
476.39	131.02	34.83	0
476.63	23.38	39.54	0
476.73	20.64	36.57	4.5
476.83	309.93	17.37	0
476.96	30.13	48.81	0
477.19	1.41	30.59	5.82
478.03	4.18	19.61	0
478.11	14.03	43.86	7.27
478.17	32.28	50.8	0
478.28	33.44	44.78	0
478.33	26.97	45.95	0
478.63	236.13	32.3	0
478.73	21.18	61.56	0
478.91	281.36	37.57	0
478.98	96.87	19.29	7.01
479.01	17.58	62.11	4.04
479.07	32.22	15.99	2.96
479.13	13.23	16.27	2.91
479.18	10.37	33.26	0

Table D2 Fracture orientation and apertures for BL-0034 (Page 10 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
479.28	38.09	22.64	0
479.31	63.18	67.21	0
479.39	222.54	30.15	0
479.58	184.64	4.5	0
479.91	37.48	64.83	0
479.94	111.88	32.23	0
480.11	14.87	49.99	0
480.39	48.2	45.31	0
480.47	238.49	13.05	0
480.49	298.75	19.8	0
480.57	20.1	75.14	0
480.59	209.31	32.4	0
480.73	203.99	35.48	0
480.85	267.56	17.78	2.39
480.99	226.48	23.7	0
481.03	187.19	10.57	0
481.16	59.77	25.39	0
481.24	45.51	56.65	0
481.33	243.65	21.57	0
481.39	208.46	5.45	0
481.47	229.54	21.25	0
481.52	240.49	19.29	0
481.66	48.03	59.18	0
481.71	44.65	42.12	0
481.8	229.01	28.38	0
481.94	227.33	23.83	0
481.97	216.77	27.79	0
482.01	54.62	62.92	0
482.21	11.54	14.21	2.88
482.42	200.96	10.58	0
482.46	182.73	7.39	1.29
482.61	75.31	22.06	1.44
482.73	160.82	8.44	0
482.95	21.94	46.46	0
483.19	224.71	44.03	0
483.28	228.67	38.6	0
483.41	20.86	64.6	1.33
483.49	223.61	34.48	0
483.51	105.87	13.68	0
483.57	29.28	42.5	0
483.7	20.53	47.91	1.48
483.76	48.48	30.54	2.98
483.99	21.17	42	5.92
484.11	16.42	55.2	1.4
484.19	30.11	79.75	0
484.22	51.56	77.87	2.29
484.27	35.96	71.38	3.82
484.32	38.32	70.27	5.11
484.38	28.43	58.05	0
484.42	237.14	27.4	0
484.48	33.33	54.49	0
484.55	37.19	58.09	1.4
484.66	32.01	45.61	0
484.74	46.03	61.17	2.74
484.79	71.79	30.78	0
484.88	43.95	82.39	0
484.96	69.97	64.11	2.5
485.04	64.28	43.18	1.44
485.05	48.49	65.02	0
485.13	44.05	58.12	1.39
485.22	322.41	27.21	2.66
485.36	13.16	60.59	1.34
485.52	88.71	50.59	1.29
485.91	95.39	43.51	0
485.99	107.69	17.41	0
486.31	220.75	46.82	0
486.35	90.72	21.69	2.82
486.41	223.62	40.3	0
486.61	219.75	35.72	0
486.79	210.62	43.21	0
486.82	232.89	19.85	0
486.99	59.9	24.61	4.38
487.01	70.58	24.94	2.9
487.3	215.41	45.05	0
487.38	101.56	52.8	0
487.42	209.32	23.52	0
487.53	213.23	33.43	0
487.58	125.91	31.48	0
487.63	158.41	40.79	1.68
487.72	177.94	32.28	0
487.8	23.28	64.49	0
487.82	228.08	34.24	0
487.89	226.01	33.69	0
487.97	250.83	35.93	0
488.09	223.18	33.11	0
488.3	256.02	38.24	0
488.32	216.81	44.91	0
488.47	215.61	41.38	0
488.68	221.7	32.26	1.62
488.87	218.31	40.6	0
489.02	349.26	53.28	2.63
489.11	85.25	21.3	0
489.23	220.6	35.54	0
489.37	210.28	27.03	0
489.39	27.73	60.31	2.76
489.57	214.62	26.73	0
489.68	218.25	29.27	0
489.71	225.49	27.79	0
489.87	204.11	43.74	0
490.09	212.21	39.72	0
490.14	61.19	30.11	0
490.2	205.75	32.56	0

Table D2 Fracture orientation and apertures for BL-0034 (Page 11 of 11).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
490.27	207.2	20.33	0
490.3	190.19	32.03	0
490.41	62.32	42.78	2.89
490.43	204.13	32.63	1.61
490.46	357.96	57.21	2.65
490.54	238.56	31	0
490.67	214.67	22.65	0
490.78	217.49	27.42	0
491.08	207.76	41.58	0
491.12	66.96	10.24	4.26
491.19	73.68	13.59	2.89
491.4	62.16	50.55	0
491.6	28.9	43.9	2.95
491.87	0.5	34.33	1.48
491.9	14.14	44.57	0
492.12	26.56	19.82	7.37
492.17	223.57	39.12	0
492.2	29.62	18.53	4.35
492.26	212.7	43.26	0
492.43	195.68	28.71	1.84
492.47	226.78	22.52	0
492.49	229.88	17.1	3.43
492.59	85.32	69.19	0
492.67	66.51	73.37	2.34
492.76	104.99	49.81	0
492.82	213.7	24.95	0
492.88	54.48	20.38	0
492.92	202.76	18.01	0
492.94	211.6	24.3	0
492.97	187.95	23.55	0
493.08	250.45	6.91	0
493.24	143.9	26.97	0
493.53	41.41	59.01	0
493.58	213.92	35.07	0
494.06	141.1	21.48	2.47
494.2	227.18	30.55	0
494.26	95.18	45.19	5.22
494.28	234.67	35.21	0.75
494.32	243.5	29.04	0
494.36	243.09	26.38	0
494.49	264.24	23.93	0
494.58	243.88	31.72	0
494.76	115.67	47.74	6.63
494.81	209.47	30.54	1.73
494.84	158.71	36.27	1.87
494.92	95.62	61.33	3.33
494.95	93.07	53.19	2.45
495.02	33.72	49.65	0
495.07	192.1	48.25	0.8
495.12	35.47	84.45	2.12
495.18	51.97	57.59	2.77

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
495.21	52.8	58.7	2.75
495.24	215.12	41.13	1.14
495.26	45.4	62.96	4.05
495.28	46.82	64.5	4.03
495.31	56.07	62.47	4.03
495.37	69.73	53.16	0
495.45	96.6	40.45	29.25
End			

Table D3 Fracture orientation and apertures for BL-0035 (Page 1 of 5).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
8.8	344.5	29.24	0
8.87	289.2	20.99	0
8.93	165.62	8.97	0
9.14	42.06	70.71	0
9.33	348.57	64.38	0
9.56	341.69	14.88	0
9.76	72.79	41.99	0
10.2	332.46	21.59	2.9
10.27	259.51	61.97	2.65
10.49	103.98	52.87	4.18
10.54	64.12	57.03	8.75
10.58	255.87	25.95	6.92
10.75	331.84	84.96	2.09
10.75	131.42	53.9	14.42
11.14	321.32	54.05	80.94
11.4	214.16	55.25	1.84
11.62	20.62	16.07	2.98
11.67	45.71	38.63	2.89
11.83	44.51	24.62	2.97
11.9	97.97	21.83	5.51
12.01	26.05	67.19	3.69
12.15	57.96	62.63	0
12.27	135.59	24.1	0
12.28	359.63	68.86	2.37
12.3	346.65	10.6	0
12.38	89.56	62.52	0
12.45	50.6	38.07	0
12.47	169.72	30.4	0
12.65	86.38	31.91	4.07
12.9	24.48	53.18	254.13
13.36	51.15	41.38	0
14.11	341.46	12.51	0
14.15	80.8	14.81	0
14.7	45.29	81.48	0
15.29	183.55	38.07	1.71
15.62	46.08	44.8	97.17
15.79	358.38	40.27	7.27
15.91	64.08	42.46	5.47
15.99	74.8	46.61	12.86
16.08	46.35	54.95	3.97
16.24	57.56	52.28	2.62
16.45	77.13	38.48	6.73
16.62	79.51	26.81	0
16.94	72.05	24.75	0
17.92	88.48	20.23	0
17.95	327.48	79.31	0
17.96	96.08	15.24	0
18.07	208.2	21.8	0
18.35	119.63	39.66	0
18.72	10.39	42.35	2.91
18.91	81.3	15.61	0
19.12	35.49	15.8	0
19.52	54.17	71.72	0
20.12	92.24	57.67	0
20.2	143.11	51.58	0
20.42	215.69	26.97	0
20.9	125.68	36.25	0
21.07	38.63	60.19	0
21.37	356.17	78.52	2.01
21.42	73.97	51.43	4.95
21.75	350.78	79.18	1.94
21.94	356.46	64.99	0
22.18	315.32	28.93	0
22.41	324.69	31.36	9.93
22.94	315.19	47.78	0
23.11	340.24	66.62	0
23.57	81.54	43.13	2.48
23.87	18.69	55.3	0
24.26	323.59	44.51	0
24.29	330.07	25.45	0
24.81	2.47	68.37	0
24.87	34.92	61.55	0
26.46	17.63	59.84	0
30.56	273.51	33.22	0
30.94	295.42	53.54	0
31.2	332.61	40.65	0
31.26	300.02	47.39	0
31.62	330.14	43.13	0
31.8	355.12	42.64	0
32.51	328.74	10.33	0
33.21	1.64	32.25	0
34.33	318.84	14.28	4.32
35.25	19.36	20.59	0
35.5	258.09	22.33	0
35.53	178.06	9.17	0
35.72	169.58	9.6	0
36.44	6.04	27.56	0
37.29	32.24	52.42	2.77
37.33	40.08	64.71	2.47
37.45	346.6	39.48	0
37.66	23.31	77.2	0
37.72	12.95	83.84	0
38.26	315.37	33.98	17.82
38.35	20.24	69.77	0
38.61	351.93	38.11	0
39.09	12.41	25.37	0
39.55	345.92	33.38	0
39.9	15.66	36.9	0
39.95	230.05	23.65	0
41.86	318.5	73.37	0
41.96	285.34	8.4	5.62
42.23	154.57	34.25	0

Table D3 Fracture orientation and apertures for BL-0035 (Page 2 of 5).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
43.9	55.99	39.22	0
44	347.75	44.71	0
44.57	232.11	10.84	0
45.27	130.01	9.56	0
45.87	265.39	10.92	0
47.67	288.15	30.3	0
48.04	347.1	26.47	0
49.06	184.96	28.16	1.04
49.37	23.3	44.32	0
50	324.42	31.73	0
50.24	3.7	42.61	0
50.63	359.83	33.49	0
52.33	139.17	17.66	0
53.18	39.36	48.05	0
53.34	8.72	49.81	0
53.84	339.48	82.75	0
53.92	334.09	85.86	0
54.33	39.04	15.07	0
54.54	1.94	34.28	0
56.03	22.91	47.59	0
56.04	134.01	57.68	0
56.14	105.04	51.33	0
56.49	359.18	27.99	0
56.83	23.54	47.73	0
57.46	32.12	47.75	34.1
57.68	16.53	33.91	0
58.51	330.73	26.84	0
59.62	19.49	52.91	0
60.42	52.49	72.39	0
60.45	43.6	67.88	0
60.79	53.88	70.15	14.42
60.83	42.09	61.8	0
61.04	184.96	25.81	0
61.83	37.59	58.16	7.94
62.21	25.51	57.32	0
63.24	25.46	69.38	0
63.26	34.06	68.54	0
63.29	29.99	54.55	2.75
66.17	48.74	73.51	19.23
68.15	292.57	71.74	0
75.82	30.33	59.02	0
75.93	41.17	47.31	7.06
77.04	14.93	62.19	0
77.67	25.84	60.04	0
77.79	32.65	68.07	0
78.63	32.89	66.61	0
79.62	27.34	47.98	0
82.5	49.38	75.71	0
82.58	280.28	60.62	0
83.41	226.44	84.99	0
83.84	9.25	43.45	0
86.23	205.23	32.11	0
86.42	192.26	40.46	0
87.19	201.61	84.44	1.38
87.63	184.84	68.96	0
88.7	227.02	23.38	2.7
89.96	266.94	28.01	0
92.34	306.92	51.5	0
93.02	25.7	51.79	0
93.74	204.22	75.8	0.8
98.69	130.99	22.62	0
101.97	40.64	50.35	0
102.2	32.46	43.06	0
102.51	36.22	51.4	0
105	172.96	15.39	0
108.5	189.37	14.49	0
110.75	33.53	64.61	2.55
111.11	23.23	57.52	1.37
113.17	33.89	80.45	0
114.02	334.9	35.83	0
114.65	31.41	50.01	0
115.05	334.9	46.69	0
115.57	17.06	40.2	2.95
116.28	343.89	24.28	0
118.37	352.1	89.32	0
119.12	310.04	32.74	0
120.92	50.37	52.72	0
121.02	211.8	24.16	0
121.06	187.29	30.59	0
121.36	41.67	83.21	0
122.36	26.28	30.2	0
122.44	59.98	43.31	0
123.36	132.29	35.1	0
123.52	27.51	3.54	0
126.71	178.43	46.87	0
127.05	29.64	86.33	0
128.06	117.69	38.09	0
128.42	55.64	64.32	0
128.56	72.05	48.99	0
128.66	349.04	82.04	0
130.27	175.7	27.96	0
131.2	329.32	79.14	0
132.18	165.12	84.35	0
134.66	289.44	74.8	0
135.75	16.18	56.5	0
135.99	19.44	58.15	0
152.06	357.31	79.37	0
155.29	2.48	36.24	0
160.69	304.92	20.59	0
160.8	334.66	39.42	0
166.46	6.45	71.55	0
169.08	290.85	78.26	0

Table D3 Fracture orientation and apertures for BL-0035 (Page 3 of 5).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
169.87	3.49	19.7	0
169.91	59.35	42.55	0
170.08	16.66	61.46	0
171.18	331.67	37.81	0
171.39	59.2	13.95	0
172.05	184.05	11.88	0
172.86	37.49	51.13	0
173.09	2.45	53.26	0
175.08	76.13	38.27	0
175.9	301.1	61.97	0
176.11	277.47	20.47	0
176.15	334.84	42.6	0
177.37	19.19	66.44	0
177.91	184.12	22.93	0
180.06	36.57	19.78	0
180.5	10.75	59.27	0
185.18	39.99	48.4	0
191.88	16.11	47.06	0
193.59	357.32	44.75	0
195.74	36.93	60.64	0
195.89	14.07	67.54	0
197.08	28	80.28	0
198.01	148.36	38.18	0
200.42	342.41	59	0
201.18	358.99	89.79	0
201.79	11.18	54.15	0
201.95	27.03	55.54	0
202.3	63.4	57.2	0
202.43	356.29	46.4	0
202.63	28.94	57.42	0
203.27	332.37	47.45	0
203.5	56.03	61.04	0
203.94	21.9	27.57	0
204.13	8.59	47.19	0
204.35	1.03	20.29	0
205.24	7.43	74.04	0
205.3	38.33	52.26	0
205.4	99.49	52.58	0
205.84	13.89	41.14	0
207.75	47.54	71.04	0
209.08	359	59.18	0
210.13	65.65	67.9	0
210.27	48.54	88.06	0
210.41	33.68	67.7	0
210.61	31.02	52.4	1.41
210.92	357.49	55.34	0
212.22	213.63	80.41	0
212.43	86.19	70.68	0
214.3	45.24	60.88	1.3
217.46	4.35	48.3	0
217.92	355.82	33.26	0
218.51	15.87	88.26	0
219.22	106.49	71.5	0
219.36	132.91	33.52	0
220.47	47.48	30.85	0
220.67	2.41	87.76	0
225.69	143.3	56.06	0
229.54	325.53	78.56	0
230.31	78.69	82.54	0.61
230.46	208.57	88.92	0
231.6	125.41	88.58	0
232.26	311.66	66.74	0
234.61	253.95	85.74	0
235.06	248.71	84.52	0
235.62	71.97	76.86	0
235.77	84.57	83.73	0
235.85	319.48	67.81	0
236.37	87.19	69.95	0
236.65	90.17	72.78	0
237.25	94.21	71.52	0
239.2	133.56	42.02	0
239.52	208.53	77.08	0
243.34	95.21	81.65	0
244.83	73.49	63.2	0
246.8	96.66	80.49	0
251.18	85.86	50.78	0
258.11	49.24	72.8	0
260.71	109.59	63.21	28.81
261.3	153.07	51.6	128.52
262.7	144.08	39	0
263.33	124.73	58.15	0
263.53	19.2	56.34	0
263.87	168.84	48.61	0
266.55	50.88	86.14	0
269.27	359.95	46.68	0
280.89	21.34	14.67	0
280.96	329.99	23.73	0
286.63	349.24	53.99	0
287.85	308.37	41.33	0
292.19	355.66	61.31	0
293.73	15.56	57.93	0
295.33	25.88	55	0
299.05	210.06	40.45	0
304.24	318.97	3.95	0
305.32	21.56	88.29	0
305.44	228.62	87.57	0
305.67	253.91	35.68	0
317.2	181.86	76.81	0
321.27	354.37	89.57	0
322.73	197.77	66.59	0
323.8	9.74	87.9	0
326.82	206.62	84.42	1.82

Table D3 Fracture orientation and apertures for BL-0035 (Page 4 of 5).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
327.91	202.31	67.99	1.93
331.87	52.66	37.34	0
336.63	165.24	89.42	0
337.09	151.96	83.18	0
341.92	155.06	87.55	0
342.12	358.35	85.66	0
343.06	164.4	79.53	0
345.53	184.5	83.8	0
346.65	149.63	88.08	0
348.43	206.28	64.51	1.04
349.77	160.67	38.16	0
350.49	213.41	64.64	0.76
351.37	207.48	69.77	0.9
351.72	225.2	62.74	0.65
355.2	227.75	74.68	0
355.27	231.21	70.68	0
355.87	224.39	71.88	0
357.06	100.91	70.62	0
357.63	194.08	37.31	0
357.84	25.23	77.38	0
358.13	318.71	24.1	0
358.59	257.44	28	4.18
358.93	285.09	38.09	2.2
359.83	238.05	36.29	2.25
360.16	253.98	46.99	1.85
360.46	212.92	31.93	0
361.19	55.14	24.04	0
361.53	43.22	85.06	0
361.72	15.93	54.71	0
361.86	13.56	69.52	0
361.93	17.49	65.51	0
362.03	28.41	55.53	0
362.05	26.3	54.3	0
362.08	28.59	54.71	0
362.39	54.86	12.89	0
362.43	198.16	18.24	0
364.13	10.67	23.78	0
364.34	291.29	16.02	0
364.45	326	30.43	0
364.64	346.18	42.34	0
365.38	311.31	44.39	0
365.88	317.85	29.64	1.38
367.98	344.21	33.71	2.89
369.15	22.01	37.99	0
369.45	153.91	82.26	0
374.9	223.44	81.23	1.47
375.22	225.54	87.48	0.17
376.96	16.74	76.33	8.66
377.46	358.51	69.47	3.79
377.55	110.56	2.71	3.99
377.78	166.67	34.12	0
378.11	215.39	82.29	0
378.24	5.86	83.67	7.74
378.34	46.55	45.58	5.78
378.42	4.71	82.82	8.91
378.58	119.29	4.55	6.61
378.75	161.77	34.86	0
378.91	34.05	19.63	0
379.08	3.42	84.83	4.33
381.68	139.14	25.18	0
381.74	130	28.6	0
383.31	160.73	7.82	0
387.69	151.14	21.35	0
388.12	49.18	77.58	0
388.89	196.08	71.69	0
389.26	92.73	80.34	0
390.24	354.59	36.69	0
390.89	21.6	58.4	0
391.31	14.03	33.03	0
395.49	213.76	83.02	0
397.02	265.31	53.73	0
398.38	348.9	23.74	0
398.76	218.08	72.25	0.99
398.9	340.1	13.68	0
400.08	98.34	78.95	0
400.62	241.29	20.61	0
402.58	81.78	37.86	0
404.16	306.74	22.47	4.02
404.47	179.32	13.89	0
404.76	311.31	27.51	2.66
405.06	210.19	88.08	1.92
405.14	211.32	16.78	0
405.45	182.93	86.66	1.85
405.66	210.77	30.09	0
406.05	196.21	86.19	5.64
406.12	203.4	78.14	7.95
406.16	201.72	88.23	2.93
406.57	36.12	61.1	2.69
406.94	95.17	31.91	0
407.2	321.92	83.97	1.56
407.35	36.93	68.44	1.32
407.53	209.67	83.92	0
407.91	58.5	32.72	2.86
407.96	197.14	44.49	0
408.58	25.65	78.85	1.2
408.85	200.03	71.14	1.07
409.18	344.06	39.91	0
409.46	25.77	53.75	2.88
409.62	210.93	89.39	0
409.68	55.67	12.31	0
409.86	53.42	47.83	2.78
410	52.19	36.72	0

Table D3 Fracture orientation and apertures for BL-0035 (Page 5 of 5).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
410.27	5.77	82.11	1.11
410.35	58.12	30.95	2.85
410.76	198.3	88.86	0
410.95	185.56	89.75	1.99
411	208.27	88.77	6.88
411.41	130.98	16.44	0
411.67	296.88	28.36	29.91
411.85	27.08	74.46	0
412.1	26.21	65.57	8.21
412.33	108.19	80.7	0
412.36	1.21	73.63	5.04
412.86	94.07	7.91	2.69
412.9	168.07	23.18	0
412.92	19.66	35.97	0
413.06	85.26	51.06	0
413.27	272.33	10.26	0
413.42	51.74	16.57	0
413.49	44.24	15.52	0
413.56	55.59	43.99	1.38
413.97	61.4	51.85	0
414.03	61.66	33.43	4.24
414.11	125.76	21.1	25.99
414.16	136.13	17.01	2.38
414.16	136.22	16.98	0
414.25	100	40.9	3.4
414.29	106.66	38.15	4.57
414.43	144.51	17.12	1.16
414.5	90.17	47.98	2.34
414.56	144.44	15.87	3.55
414.61	109.12	41.2	2.13
414.7	13.76	69.17	2.66
414.78	12.88	67.43	0
414.87	314.46	17.48	2.72
414.99	67.5	69.2	7.8
415.17	27.96	86.59	157.53
415.43	210.57	82.46	3.33
415.57	46.76	59.35	0
416.04	347.95	20.8	0
416.12	45.64	22.76	0
416.45	214.18	73.2	0
417.36	31.11	48.66	2.93
417.38	28.68	87.64	10.68
417.61	63.82	84.5	0
418.56	21.88	47.72	4.42
418.6	28.09	44.45	0
418.68	22.53	48.46	0
418.97	8.93	54.59	5.79
419.09	70.75	16.07	71.06
419.18	43.1	11.01	49.39
419.5	53.51	41.34	0
419.72	235.49	47.88	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
419.95	24.99	54.52	2.89
420.01	15.6	55.28	4.35
420.06	355.68	71.06	32.53
420.18	24.6	60.63	40.88
420.38	29.99	53.24	8.71
420.38	225.18	41.04	0
420.58	233.9	50.73	0.89
420.93	2.84	21.66	4.38
421.02	226.77	44.23	0
421.33	343.28	15.75	0
421.48	0.19	51.16	0
421.52	236.73	39.94	0
421.63	247.04	35.24	0
421.76	245.91	27.9	0
421.78	20.69	67.37	0
421.89	316.7	84.21	0
422.7	31.94	29.45	0
425.93	127.5	43.66	3.45
425.99	230.91	49.57	0
426.1	263.37	35.15	0
426.58	255.98	33.94	0
427.85	240.13	40.96	0.64
428.03	248.45	43.99	0.61
429.73	232.47	47.1	0.78
430.79	221.13	44.57	0
431.36	231.28	47.37	0
436.63	304.03	82.39	0
438.18	351.93	29.33	0
439.87	178.16	76.52	0
440.25	225.23	29.42	0
441.43	155.49	80.96	0
454.6	213.74	79.7	0
454.78	113.81	89.28	0
455.29	249.98	35.69	0
455.85	252.57	89.37	0
457.21	217.1	71.56	0
458.12	280.05	47.06	0
462.84	123.7	66.85	0
473.27	101.69	60.6	0
487.32	105.42	68.34	0
492.08	36.13	85.21	0
492.11	208.79	89.71	0
End			

Table D4 Fracture orientation and apertures for BL-0048 (Page 1 of 2).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
6.36	354.1	73.4	0
6.44	15	82.53	0
6.52	10.19	84.51	0
6.8	355.07	40.21	0
7.04	186.67	77.22	0
7.52	59.52	89.29	0
7.83	346.69	25.56	0
8.54	231.75	87.61	1.02
8.81	217.91	85.3	0
9.19	329.97	41.72	0
10.33	41.6	23.28	0
10.67	346.16	39.76	0
12.8	324.19	29.05	0
13.64	349.85	49.5	0
13.78	342.1	75.13	0
13.79	276.16	35.25	0
14.2	272.56	46.96	0
14.62	322.14	46.69	1.55
14.93	287.77	43.08	0
16.54	327.06	11.97	0
16.94	285.78	64.24	0
17.16	338.6	21.25	0
17.54	325.37	69.45	0
18.02	152.04	29.37	1.81
19.52	353.87	47.94	0
20.19	258.91	8.49	1.41
20.4	336.05	45.24	0
20.9	32.76	64.79	0
21.24	258.94	27.47	0
21.28	304.42	47.66	0
21.47	285.13	29.68	0
21.94	335.52	8.08	1.64
22.64	201.18	89.14	0
24.31	260.37	47.14	1.68
24.35	272.88	20.51	2.58
24.56	236.54	17.64	0
25.14	355.3	19.27	0
25.81	33.8	12.56	0
25.84	13.81	83.99	0
25.87	309.71	26.69	3.11
26.47	305.32	37.14	0
26.81	295.55	46.39	0
26.98	306.43	23.95	0
27.11	306.16	30.95	0
27.92	4.18	52.26	0
28.93	355.41	28.97	0
30.31	332.23	22.17	0
30.44	349.75	34.78	0
30.46	285.71	49.88	0
31.91	320.46	38.82	0
32.11	168.13	16.65	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
32.22	100.75	40.52	2.61
32.34	187.35	17.83	0
32.59	308.31	40.69	0
33.17	314.73	24.57	0
33.57	94.4	49.93	1.26
35.24	198.97	11.89	2.46
35.25	14.15	18.05	0
35.5	130.16	29.91	0
35.58	351.94	78.8	0
35.78	130.92	28.45	0
35.9	331.83	34.64	0
36.12	317.12	43.08	0
36.27	46.92	48.83	0
36.44	346.69	50.75	0
37.29	340.36	38.51	0
38.14	281.97	40.94	0
38.25	282.15	36.45	0
38.64	5.14	55.65	0
39.09	327.55	41.96	0
39.58	349.03	85.98	0
39.77	38.85	32.44	0
40.46	29.6	12.99	1.78
41.72	181.46	81.25	0
42.16	51.37	25.69	1.87
42.22	44.05	19.42	0
42.61	70.6	12.15	0
42.63	339.27	56.38	0
43.56	71.95	66.37	0
43.64	78.03	70.67	0
44.13	340.17	60.12	1.61
45.21	7.19	68.45	0
48.43	16.9	71.96	0
48.99	80.14	33.94	0
49.02	22.43	67.96	0
51.07	105.94	42.87	2.42
53.17	317.87	37.45	0
56.25	342.04	46.84	0
57.7	110.5	72.24	0
59.03	96.28	80.13	0
60.64	104.39	37.24	0
61.57	292.69	63.54	0
62.02	34.51	43.01	0
63.23	344.37	48.88	0
63.6	328.49	28.07	0
64.56	333.03	34.11	0
65.28	327.4	22.18	0
68.01	179.36	75.45	0
71.32	13.76	13.65	0
71.68	146.48	73.16	0
72.73	330.38	44.58	0
73.91	237.25	79.35	0

Table D4 Fracture orientation and apertures for BL-0048 (Page 2 of 2).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
75.25	332.18	11.33	0
76.13	333.34	38.22	3.46
76.93	317.55	34.52	0
77.07	316.21	36.31	6.21
77.12	336.88	40.63	1.76
77.23	296.13	42.14	0
77.58	348.77	20.59	0
77.69	320.96	20.29	0
78.59	277.76	30.01	0
78.84	21.13	33.62	0
79.96	32.01	42.45	0
81.41	94.88	35.04	0
82.04	182.61	21.43	0
84.5	18.81	51.16	0
85.38	118.35	55.1	0
86.33	111.65	58.24	0
89.22	21.54	50.21	0
93.3	6.51	6.52	0
93.77	11.43	31.75	0
95.31	162.19	10.11	0
95.89	229.6	23.07	0
96.16	320.49	19.35	0
96.21	333.18	43.23	0
97.65	334.98	79.17	0
98.58	135.99	15.24	0
101.12	135.46	8.63	1.46
106.01	135.08	24.71	2.41
106.17	127.8	11.65	1.45
107.54	328.93	62.14	0
107.62	100.61	5.06	0
107.79	318.63	60.07	0
109.1	63.03	11.17	0
109.19	325.21	74.06	0
109.53	16.03	23.86	1.92
110.03	97.15	21.37	0
110.15	18.02	14.55	0
110.24	71.01	42.47	0
110.32	47.47	42.74	0
110.33	78.42	58.75	0
110.54	347.62	22.38	0
110.63	321.82	23.55	0
110.95	314.22	49.44	1.35
114.34	272.84	34.14	0
116.24	359.59	47.26	0
117.65	4.86	59.55	0
117.84	266.48	22.48	2.42
119.15	139.09	8.44	0
119.37	57.53	73.31	0
121.39	201.71	30.77	0
123.41	69.14	14.56	0
123.59	46.42	16.48	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
123.73	332.35	33.44	0
124.3	349.92	36.36	3.74
124.45	356.43	43.03	3.8
124.57	344.55	46.15	0
124.67	311.97	39.07	1.45
125.42	11.34	25.62	19.31
128.37	188.04	69.48	0
130.5	93.68	81.88	0
135.27	352.84	85.12	0
137.59	2.83	31.14	7.73
137.69	353.36	32.43	0
138.22	12.24	16.06	0
139.77	161.38	34.56	0
141.54	106.6	58.68	0
144.96	33.36	54.4	0
145.11	12.37	27.25	0
146.51	100.56	79.87	0
149.56	89.44	82.7	0.73
153.73	344.35	37.6	0
155.3	59.16	89.48	0
158.41	79.61	82.73	0
158.47	61.42	79.73	0
158.56	79.48	86.85	0
162.5	327.83	46.96	0
166.08	12.97	39.77	0
168.76	91.09	89.12	0.52
169.69	173.33	16.12	0
181.67	50.37	73.05	0
181.84	316.66	23.63	0
182.01	13.62	89.1	0
193.97	91.3	72.63	7.52
196.64	34.01	34.36	0
196.7	37.49	26.02	1.94
199.73	65.73	65.37	0
201.57	99.03	79.09	0
206.61	201.58	84.88	0
224.8	39.98	53.2	0
225.29	192.48	31.45	0
226.58	64.57	18.03	0
228.64	191.14	19.89	0
244.99	203.49	84.09	0
264.82	92.66	27.2	0
266.48	55.93	86.75	0
End			

Table D5 Fracture orientation and apertures for BL-0049 (Page 1 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
4.2	333.19	38.37	0
4.57	4.96	67.21	4.12
4.85	73.68	17.36	0
5	5.81	59.36	0
5.01	6.48	3.6	0
5.43	154.39	32.69	4.54
5.44	355.65	48.68	0
5.49	8.83	53.65	0
5.72	355.9	46.1	0
5.78	334.05	30.57	2.78
5.95	18.22	22.51	0
6.1	27.83	87.09	0
6.23	343.4	28.34	0
6.27	344.5	37.29	0
6.53	25.4	68.3	0
6.61	344.85	32.05	0
6.99	331.24	33.09	0
7.13	17.53	11.44	0
7.32	353.58	63.32	2.73
7.36	350.18	60.38	0
7.68	28.63	81.54	0
7.95	16.71	80.57	0
8.01	15.99	26.28	0
8.67	13.17	73.76	0
8.82	299.32	7.78	0
8.86	304.22	33.47	0
8.92	323.99	47.89	0
9.1	295.61	28.97	12.41
9.42	313.99	29.73	0
9.5	346.84	32.46	0
9.53	328.8	24.39	0
9.56	279.51	14.7	0
9.68	9.19	27.19	2.95
9.87	319.03	26.78	0
10	333.05	34.89	0
10.08	315.92	7.13	1.3
10.37	359.37	48.08	4.39
10.47	263.59	49.43	0
10.86	290.25	48.56	0
11.42	354.4	42.91	0
12.44	344.09	33.68	2.86
13.31	350.71	51.07	0
13.48	84.57	53.16	0
13.49	73.84	32.5	0
13.65	337.92	75.12	0
13.87	343.72	42.4	0
14.39	323.53	14.55	0
14.61	267.48	16.13	0
14.67	307.8	42.13	0
14.7	317.53	35.8	0
15.45	159.84	62.6	1.19

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
16.12	259.84	13.33	0
16.62	23.51	65.42	0
17.17	347.27	48.1	2.85
17.28	68.59	62.33	0
17.36	289.38	15.49	0
17.5	165.7	38.61	0
18.24	148.86	54.02	0
18.39	350.25	61.23	2.74
18.76	129.29	20.04	2.23
19.11	137.05	34.83	0
19.22	55.05	43.01	0
19.24	65.2	51.53	0
19.35	330.41	68.17	2.2
19.5	69.1	51.35	3.95
19.84	115.32	12.93	0
19.93	181.69	18	0
20.58	354.91	13.59	0
20.93	333.47	11.09	0
21.1	11.13	69.8	0
21.2	352.91	58.44	0
21.35	343.3	45.81	0
21.59	322.71	46.24	2.49
21.91	34.35	67.56	1.39
22.21	7.87	58.43	0
22.8	275.98	56.93	0
22.85	282.62	45.64	0
23.25	331.33	40.59	0
24.37	358.32	21.09	0
24.92	174.11	60.67	0
25.79	329.08	55.31	0
25.88	333.51	63.13	0
26.39	307.8	34.96	0
26.45	291.52	24.15	0
26.68	340.96	51.96	0
26.69	53	52.09	0
26.87	192.64	76.15	0
27.19	346.85	57.82	0
27.31	321.91	51.69	0
27.45	346.65	55.93	0
27.77	168.93	34.1	0
28.22	330.39	54.94	2.53
28.32	239.62	9.53	2.21
29.04	15.46	52.64	0
29.15	340.7	56.33	0
29.26	329.6	2.82	0
29.3	283.32	13.08	0
30.07	88.15	10.35	0
30.12	262.03	10.46	0
30.17	202.18	9.63	0
30.48	199.24	8.38	0
30.69	342.16	67.25	1.23

Table D5 Fracture orientation and apertures for BL-0049 (Page 2 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
30.82	354.59	46.82	0
31.63	7.11	53.05	0
32.77	335.64	58.4	7.04
32.81	334.32	54.53	0
32.99	25.51	11.06	0
33.85	289.22	58.6	0
34.19	274.37	55.48	0
34.69	174.89	46.14	0
34.87	58.89	7.73	0
35.2	174.26	34.84	0
35.48	45.81	33.66	0
35.73	221.89	13.59	0
35.86	250.11	10.23	0
36.23	138.07	37.15	0
36.71	347.63	28.34	0
36.87	3.3	25.05	0
37.41	333.14	17.17	1.37
37.64	305.12	19.19	0
37.72	350.3	60.92	2.73
37.86	283.53	27.07	0
38.02	220.77	12.82	0
38.49	352.39	28.16	5.79
38.66	151.09	19.95	0
38.85	219.37	2.73	0
39.15	344.03	48.44	0
39.23	216.62	21.13	0
39.9	319.62	48.44	0
40.54	17.63	61.47	0
40.69	352.28	57.57	0
40.74	8.81	55.87	0
41.13	24.09	73.95	4.01
41.23	57.86	77.21	0
41.24	205.22	57.44	0
41.39	203.42	45.33	0
42.46	337.93	58.98	2.6
42.76	343.73	34.55	0
44.16	143.16	80.15	0
48.67	159.47	61.21	0
48.96	103.57	55.82	0
49.28	151.82	83.49	0
49.97	288.99	39.67	2.05
51.93	312.25	28.54	3.44
52.63	220.5	79.3	0
54.04	344.27	65.99	2.57
54.35	285.89	25.46	0
55.17	39.49	87.97	0
55.24	8.78	79.7	0
59.32	163.97	42.05	0
60.07	315.83	20.98	0
60.16	355.93	31.18	0
60.78	175.37	37.07	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
60.97	172.91	43.06	0
61.26	352.54	63.14	0
62.63	317.51	33.06	0
63.27	13.12	75.61	0
63.81	342.65	56.37	0
64.11	4.06	60.64	0
64.3	4.4	55.37	0
65.94	315.83	84.95	0
66.78	135.79	86.5	0
66.89	7.93	31.96	0
67.4	357.19	50.09	0
68.65	315.91	47.94	0
68.86	7	51.66	0
69.48	21.91	63.57	0
70.27	338.92	89.14	0
70.94	242.43	13.16	0
71.22	252.48	37.87	0
71.73	58.81	46.76	0
72.13	9.07	19.21	1.44
72.24	223.07	88.7	1.05
72.42	151.73	75.57	0
72.96	317.16	59.93	0
73.54	43.13	85.48	0
73.76	134.75	84.75	0
74.49	175.92	29.71	0
74.75	160.95	38.78	0
75.13	169.96	43.01	0
75.42	209.49	27.98	1.45
75.67	105.82	26.99	0
76.06	65.43	45.78	0
76.17	171.02	27.99	0
76.86	175.12	25.25	0
77.81	15.93	54.63	5.87
78.43	320.27	52.21	0
79.41	7.77	56.08	2.89
79.5	8.04	68.17	0
79.7	12.45	58.16	1.45
79.86	357.06	66.83	1.35
79.97	47.38	71.37	1.29
80.16	358.47	72.12	2.61
80.2	356.62	70.87	1.39
80.54	340.08	53.25	0
80.76	352.44	68.79	0
81.15	359.3	57.62	0
81.21	5.52	75.4	0
81.27	35.12	65.02	0
81.77	348.77	61.04	0
82.16	348.16	34.93	1.45
82.26	16.31	61.98	0
82.31	20.17	55.77	2.93
82.43	6.94	61.83	4.24

Table D5 Fracture orientation and apertures for BL-0049 (Page 3 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
82.48	1.47	56.71	1.42
82.55	10.45	63.35	0
82.62	0.4	64.99	2.74
82.81	42.75	67.8	0
82.86	28.38	49.7	0
83.1	2.61	49.88	0
83.12	7.93	49.79	0
83.52	19.16	46.92	0
84.06	145.75	10.14	0
85.63	284.24	40.16	0
85.89	194.8	88.96	4.33
85.99	341.8	54.48	4.06
86.16	355.46	40.61	0
86.31	342.71	34.07	0
86.38	344.06	60.92	0
86.42	359.31	49.97	4.37
86.51	337.62	49.35	6.8
86.56	350.11	41.66	2.89
86.7	329.93	65.74	3.41
87.4	352.09	62.73	0
87.84	6.44	76.23	0
87.99	146.28	32.73	0
88.52	349.73	53.33	2.8
88.74	356.1	58.13	0
89.07	122.49	22.52	0
89.1	45.62	83.07	0
89.29	47.89	61.87	0
90.17	339.19	50.66	0
91.02	335.22	40.82	1.38
92.22	105.89	66.47	1.34
92.37	342.42	52.43	1.39
92.72	221.89	77.11	0
92.76	140.79	20.51	0
93.09	348.85	40.9	0
98.05	66.33	76.13	0
98.23	310	36.58	1.25
101.05	279.34	15.01	0
102.11	10.18	81.99	0
102.17	94.95	77.72	0
102.5	303.72	74.55	0
103.06	315.93	74.33	0
103.32	344.32	24.1	0
103.85	337.12	16.54	0
106.05	357.23	36.37	0
108.87	44.09	17.66	0
109.4	193.55	13.91	0
109.58	180.68	78.7	0
110.12	176.28	72.49	0
110.28	274.39	8.65	0
111.02	328.99	31.84	0
111.17	328.92	30.98	2.75

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
111.52	254.05	10.12	0
111.83	314.85	84.58	0
111.92	44.59	9.69	0
112.31	330.86	17.9	0
113.53	304.75	85.91	0
114.71	256.23	16.38	0
115.97	49.46	36.08	0
116.12	51.57	50.03	0
117.22	45.91	47.6	0
117.32	40.47	61.59	0
117.48	191	8.99	0
117.89	53.36	60.52	2.69
119.88	48.16	88.17	0
121.34	316.95	61.83	0
121.64	151.5	20.38	0
121.67	172.02	24.1	0
121.99	296.49	76.31	0
122.6	44.19	54.81	1.43
123.18	35.7	49.84	0
125.44	50.09	59	0
126.54	288.86	68.78	0
129.67	38.76	62.54	0
129.9	20.71	56.12	0
130.55	50.82	64.26	1.33
130.73	38.16	42.46	0
130.81	29.56	45	0
132.1	90.45	32.98	0.01
132.14	30.1	49.81	2.98
132.46	3.82	81.75	0
132.6	7.94	70.49	0
132.6	115.32	72.97	0
132.72	36.12	45.05	0
132.83	52.09	58.13	0
132.9	45.98	65.75	0
133.05	69.9	72.12	1.1
133.18	33.09	54.4	2.92
134.55	150.66	7.88	0
135.53	317.86	40.06	0
136.01	317.01	75.25	0
138.03	37.43	69.25	1.34
139.09	34.84	57.31	0
139.48	176.34	89.98	0
139.84	279.68	23.79	0
139.92	61.38	59.55	0
140.02	308.05	79.06	0
141.59	178.07	86.94	0
142.53	328.72	79.31	0
145.48	262.09	88.99	0
146.15	179.18	36.46	0
147.17	173.01	85.41	0
147.93	291.11	6.92	0

Table D5 Fracture orientation and apertures for BL-0049 (Page 4 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
147.99	198.58	15.22	0
149.47	190.19	70.23	0
150.33	30.08	35.36	2.98
152.7	341.85	44.19	0
153.29	262.29	89.57	0
153.38	300.7	58.25	0
154.26	65.71	80.04	10.5
154.64	55.29	74.15	3.54
155.01	54.18	87.4	3.91
155.22	309.04	70.02	1.77
155.28	311.02	51.41	3.49
155.59	45.35	87.97	4.14
155.63	44	75.52	0
156.08	40.85	69.19	2.65
156.17	40.43	79.4	0
159.09	186.52	72.87	0
159.43	319.46	85.71	0
162.8	88.45	41.79	1.23
165.58	44.9	57.54	0.03
174.41	34.74	51.11	1.47
174.48	37.82	45.91	1.47
176.52	216.77	66.25	0
176.69	206.56	76.59	0
180.17	10.14	15.2	0
183.74	323.99	63.39	0
184.84	33.96	31.77	0
186.46	349.53	38.82	0
187.01	342.82	64.37	0
188.45	37.92	78.49	0
188.76	226.91	28.22	0
189.18	44.19	60	0
192.81	321.34	76.6	0
194.37	131.18	25.75	0
194.84	81.87	24.62	0
195.43	172.6	20.08	0
196.52	5.05	53.94	0
199.13	323.04	32.52	0
199.29	222.73	80.21	0
201.92	10.93	53.15	0
209.69	27.72	43.57	1.51
215.8	176.9	31.4	1.34
End			

Table D6 Fracture orientation and apertures for BL-0050 (Page 1 of 3).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
20.52	275.09	45.28	0
23.88	29.21	54.31	0
24.16	26.77	46.05	0
24.34	39.07	28.86	0
25.6	131.01	38.05	0
27.53	276.02	57.58	0.81
27.88	213.65	9.4	0
29.45	17.23	30.98	0
30.55	255.25	0.96	0
31.35	235.76	39.01	0
31.96	251.18	9.33	0
33.2	59.29	54.76	0
33.47	307.81	23.82	0
35.46	33.29	9.28	0
35.51	134.23	11.54	0
37.02	52.03	56.21	0
37.58	27.58	33.41	2.92
39.25	279.61	9.81	0
41.36	43.74	63.37	0
43.09	43.19	73.52	0
44.55	336.09	33.39	0
44.58	19.47	43.77	0
45.06	159.55	10.56	2.81
45.55	284.19	70.12	0.58
49.56	281.64	82.93	0
49.72	145.64	18.09	0
51.08	49.02	73.79	0
52.15	98.18	66.68	0
52.57	51.72	80.62	0
52.91	10.33	9.61	0
54.12	292.08	37.28	2.55
55.23	27.46	67.9	0
55.36	352.26	26.81	0
55.85	23.82	49.95	4.04
63.32	42.84	69.45	0
64.71	165.13	48.5	2.41
66.88	36.92	73.22	0
67.03	5.53	39.52	0
68.57	3.19	56.48	0
69.51	3.51	36.52	0
70.31	244.33	48	2.61
70.95	240.58	32.61	0.01
72.66	59.81	57.11	2.4
74.08	31.23	30.13	2.92
74.2	252.53	51.15	0
74.29	252.62	18.74	1.35
75.18	267.37	63.03	0
75.75	279.37	38.36	0
76.92	346.46	87.22	0
77.81	235.27	22.88	0
80.91	12.4	48.64	1.36
81.19	33.65	29.52	2.94
82.5	13.49	37.82	0
82.79	23.4	46.9	0
83.65	24.93	35.93	0
84.88	45.23	59.31	0
85.11	59.16	58.39	0
86.34	21.26	33.55	0
87.74	33.47	30.76	1.48
88.13	12.02	43.09	0
91.05	27.44	32.94	0
91.23	21.94	45.14	0
91.5	268.4	28.09	0
92.83	359.52	39.14	0
93.44	30.65	60.31	0
93.8	302.27	36.89	0
94.9	351.11	24.19	0
95.46	264.67	24	0
96.21	59.44	70.12	0.96
98.53	329.43	53.05	0
99.11	283.22	57.14	0
99.77	342.94	30.52	0
100.7	18.74	35.24	0
100.84	9.75	47.46	0
107.48	17.33	44.38	0
107.86	18.43	36.48	0
108.33	24.1	51.27	0
108.7	34.19	51.06	2.68
108.8	26.86	39.53	0
108.83	25.9	47.64	0
109.58	8.81	34.68	0
110.39	175.38	13.16	0
111.43	347.46	29.62	0
112.07	2.3	43.93	0
112.23	357.92	40.69	0
112.4	50.46	59.71	0
112.67	356.37	40.36	0
116.38	276.58	72.2	1.02
117.88	345.37	32.7	0
119.96	212.61	26.73	0
120.07	3.24	73.63	0
125.37	40.97	68.51	0
126.63	21.34	13.76	0
127	30.33	28.26	0
127.33	35.3	54.84	0
130.35	47.01	29.91	0
130.7	9.62	41.5	0
132.55	229.24	87.92	0
133.53	14.61	39.63	0
133.63	19.74	50.67	0
133.69	7.62	45.65	0
133.78	18.83	50.84	0

Table D6 Fracture orientation and apertures for BL-0050 (Page 2 of 3).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
135.28	43.68	38.37	0
135.41	26.41	52.62	0
135.44	24.21	52.27	0
135.63	357.24	37.53	0
135.75	33.03	82	0
136.01	312.66	18.38	0
136.7	25	64.71	0
136.76	25.61	58.84	0
137.69	37.02	56.09	0
137.76	354.3	32.9	0
139.34	32.13	68.07	0
142.28	42.5	52.13	0
142.5	33.15	59.2	1.27
143.13	149.04	32.43	0
145.52	49.74	9.79	0
146.08	38.06	57.6	0
146.15	340.57	61.44	0
148.78	224.49	29.94	0
148.9	245.45	16.49	0
150.31	47.04	55.05	0
151.1	20.38	68.6	0
151.31	353.4	58.63	0
151.53	220.35	47.38	0
152.11	60.43	20.6	0
152.3	34.21	67.03	0
153.03	41.5	77.81	0
153.58	32.51	54.01	0
153.88	267.8	67.76	0
153.99	35.23	72.84	0
154.06	29.53	70.73	0
154.27	31.77	51.87	0
154.32	336.69	38.76	0
154.42	39.76	70.04	9.72
155.74	263.82	19.87	0
155.87	343.4	29.94	0
156.87	1.97	82.93	0
157.27	43.45	60.41	0
158.24	30.71	45.76	0
158.28	40.73	41.46	0
158.78	324.88	89.03	0
158.95	331.25	84.6	0
159.33	43.05	64.14	0
159.44	62.7	30.96	0
159.5	77.56	38.45	0
159.59	346.2	48.81	0
160.46	26.9	38.21	0
160.5	34.37	39.05	0
161.15	50.26	37.97	0
161.24	58.07	52.44	0
161.6	238.33	16.52	0
162	30.81	50.8	0
164.61	61.58	68.92	0
164.78	41	65.08	0
165.61	6.86	37.03	0
165.95	338.62	88.7	0
166.3	41.24	61.48	0
169.08	196.24	25.68	0
169.14	192.46	81.41	0
169.41	184.28	52.73	0
170.87	238.7	31.73	0
172.56	197.35	88.17	0
172.85	200.84	85.45	0
176.49	61.76	66.18	0
180.01	288.1	72.03	0
181.27	61.35	78.11	0.79
181.86	164.05	60.9	0
183.63	47.16	67.39	0
185.25	144.72	35.46	0
185.73	130.58	27.83	0
189.33	73.68	69.59	0
192.37	53.28	33.03	0
195.44	40	69	1.09
201.95	50.41	21.85	2.9
202.49	65.94	78.7	0
203.15	59.78	61.93	1.14
203.69	57.13	31.82	141.62
204.22	1.02	44.56	0
205.26	276.7	13.39	0
205.8	12.12	41.48	0
209.28	296.03	40.8	0
210.01	57.77	69.04	0
212.33	11.37	22.94	1.51
212.49	37.14	68.68	0
214.75	7.19	56.67	0
215.62	10.1	46.48	1.46
215.65	15.23	46.47	1.43
219.98	104.25	60.45	0
220.09	19.09	37.52	0
227.54	15.28	28.13	0
231.51	39.36	64.33	0
234.84	214.19	34.53	0
234.92	250.29	12.8	2.71
234.98	31.79	55.28	45.4
235.04	26.82	12.81	0
237.3	37.44	44.21	0
244.63	14.23	43.14	0
245.41	8.71	59.91	0
246.93	1.25	24.9	0
250.58	40.67	87.71	0
253.34	32.08	76.47	1.02
253.46	39.43	56.11	1.31
255.4	61.45	32.03	0

Table D6 Fracture orientation and apertures for BL-0050 (Page 3 of 3).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
256.03	38.53	44.98	1.41
261.27	35.23	82.18	0
261.57	15	82.29	0
261.88	36.6	65.54	0
269.98	229.18	36.86	0
278.67	43.26	49.56	0
279.24	41.58	40.18	1.46
279.88	2.93	31.16	0
280.91	43.75	57.29	0
287.91	113.35	67.99	0
288.36	43.07	68.06	1.13
288.83	42.44	88.87	0
289.06	52.14	84.69	0
289.72	144.13	54.53	0
302.35	55.87	70.38	0
303.58	354.99	72.26	0
304.74	52.97	61.79	0
305.77	59.41	70.13	0
310.72	224.44	83.41	0
312.26	219.85	77.24	0
314.92	61.71	57.47	1.17
315.02	61.88	73.52	0
316.85	46.45	81.77	0
318.09	293.45	77.78	0
323.16	166.07	64.34	0
324.03	154.37	82.75	0
328.8	173.27	52.21	0
330.99	181.05	59.02	0
332.35	24.25	23.49	0
334.85	68.3	49.97	0
337.14	15.95	24.11	0
337.65	117.52	79.81	0
339.84	18.1	24.8	0
341.28	171.57	52.16	0
341.84	185.18	35.17	0
341.89	180.15	33.49	0
343.67	183.26	40.99	0
343.7	307.29	88.06	0
344.57	312.31	78.72	0
344.93	308.32	72.15	0
345.38	205.63	13.97	0
346.04	349.13	85.58	0
346.72	192.72	7.31	0
350.51	104.75	4.99	0
352.48	253.52	9.66	0
356.85	177.03	84.53	0
357	155.11	20.38	0
357.11	34.35	31.73	1.48
358.79	162.33	25.83	0
361.24	53.03	41.45	0
362.58	230.16	84.1	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
363.37	223.58	85.48	0
363.4	41.94	82.14	0.88
363.99	46.82	76.74	0
364.03	31.61	46.79	0
364.23	50.5	71.2	0
364.3	58.06	78.98	0
365.26	17.51	55.85	0
365.34	2.6	40.58	0
366.68	5.87	26.51	0
368.43	20.66	58.94	1.32
370	36.59	68.37	0
370.03	174.93	37.91	0
End			

Table D7 Fracture orientation and apertures for BL-0052 (Page 1 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
10	35.42	64.57	0
10	292.24	70.55	1.46
10.49	240.58	56.46	0.78
10.54	249.98	49.89	2.92
11.44	131.95	62.88	1.81
11.59	259.82	49.41	0
11.84	248.66	44.42	2.14
11.92	229.11	32.02	0
12.53	37.4	83.5	0
12.61	36.7	70.13	0
13.47	246.59	29.38	0
13.67	39.13	37.23	0
14.35	281.49	41.28	0
14.59	272.31	45.59	0
14.81	240.76	20.96	2.72
14.87	264.49	11.11	0
15.13	290.3	45.05	0
15.65	273.47	44.45	0
16.01	276.54	47.45	0
16.22	298.96	29.19	0
16.89	288.48	41.89	0
17.08	304.49	36.25	0
17.26	287.44	45.8	2.37
17.34	305.99	37.47	0
17.83	336.92	26.19	0
18.53	215.51	19.81	0
20.18	244.14	49.28	0
20.65	1.95	36.66	0
20.69	20.24	48.56	0
20.72	27.23	46.11	0
20.77	37.18	55.74	0
20.8	38.92	58.31	0
20.86	41.87	57.72	0
20.93	36.45	56.7	0
20.98	40.2	59.2	0
21.04	36.7	61.81	0
21.37	26.58	48.35	0
21.42	149.68	5.11	0
21.58	33.34	63.31	0
21.76	33.94	64.86	3.23
22.37	22.72	74.81	0.87
22.52	10.72	69.59	4.23
22.56	15.16	70.58	0
23.19	132.95	69.81	0
23.55	322.94	5.34	79.6
24.02	21.34	36.01	89.43
24.28	334.92	27.11	0
24.57	288.72	48.89	0
24.68	232.14	14.36	0
24.78	248.01	29.84	0
24.78	56.61	69.83	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
24.91	65.97	66.05	0
25.02	283.73	46.43	0
25.77	37.45	64.61	1.08
25.9	52.12	62.48	0
25.98	33.23	61.76	0
26.26	55.05	43.4	0
26.51	72.48	56.84	0
26.94	15.93	63.23	0
27.03	46.97	63.99	0
27.87	26.4	65.55	0
28.25	45.97	36.22	0
28.39	48.07	33.09	0
28.8	26.71	45.38	1.37
28.86	19.15	40.51	0
29.2	332.18	30.9	1.44
29.3	355.25	27.56	0
30.54	8.3	64.11	0
30.66	44.88	72.88	0
31.39	219.41	49.53	0.87
31.69	122.06	17.56	0
32.1	209.65	38.14	0
32.31	76.67	53.15	0
32.52	78.25	41.58	0
32.84	192.35	89.64	0
34.01	73.62	12.65	0
34.4	77.89	55.76	0
34.51	25.67	44.76	0
34.62	36.16	65.2	0
34.77	38.83	49.12	0
36.29	326.36	29.59	0
36.86	281.32	58.78	0
37.52	282.01	21.11	0
37.55	268.79	22.81	0
39.65	35.63	49.62	0
40.83	127.74	67.17	0
41.92	327.2	39.24	0
42.17	354.36	41.37	0
42.68	337.37	46.22	0
42.87	57.08	72.12	0
43.05	29.83	67.44	0
43.16	356.58	44.71	0
43.68	1.9	88.37	0
44.44	352.25	46.99	0
44.98	1.83	32.74	0
45.06	29.31	77.78	0
45.34	168.94	60.88	0
46.47	109.08	60.14	0
46.56	112.65	70.46	0
49.69	116.13	70.98	0
55.29	48.05	79.49	0
55.72	44.85	66.07	0

Table D7 Fracture orientation and apertures for BL-0052 (Page 2 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
56.16	14.23	59.21	0
56.38	2.97	70.4	0
56.76	42.78	60.06	0
56.87	113.5	82.39	0
56.89	345.41	33.84	0
56.96	358.42	41.23	0
57.05	36.54	59.69	0
57.25	33.47	82.52	0
57.36	357.74	63.57	0
57.37	30.15	43.16	0
57.59	237.41	27.28	0
57.62	114.76	77.88	0
57.95	46.11	71.8	0
58.1	37.17	57.26	0
58.44	164.06	21.53	0
58.88	39.83	85.72	0.55
59.08	183.62	28.56	0
59.38	164.67	48.04	0
60.17	41.98	84.63	0
61.16	13.1	43.69	0
61.77	11.57	43.42	0
62.78	43.89	55.1	0
63.12	41.35	61.74	0
63.26	4.73	49.67	0
64.16	36.7	61.12	0
64.68	350.17	79.87	1.61
64.78	42.04	39.74	0
64.99	24.3	29.25	0
65.99	36.44	75.8	0
66.31	124.28	49.77	0
66.49	37.7	59.42	0
66.69	354.6	89.5	0
66.8	147.17	38.53	0
67.13	21.82	52.69	0
68.61	24.02	64.49	0
68.93	128.36	43.34	0
69.17	38.11	66.59	0
69.45	39.49	68.21	0
69.51	45.36	67.42	0
69.57	40.75	63.89	0
69.66	28.78	66.45	0
69.83	43.59	76.83	0
69.96	108.71	61.3	0.73
70.41	19.78	77.24	0
70.57	50.91	42.48	0
70.68	41.8	67.87	0
70.82	53.29	76.72	0
70.95	22.26	37.87	0
71.22	37.23	50.76	0
71.34	34.72	46.62	0
71.46	52.38	62.35	0
71.65	38.47	72.9	0
71.72	47.33	68.2	0
71.89	20.04	48.19	0
72.18	24.27	58.58	0
72.21	19.86	57.02	0
72.52	33.64	62.48	0
72.54	46.38	58.52	0
72.67	38.19	63.33	0
72.99	42.5	45.03	0
73.05	55.95	26.51	0
73.14	40.52	56.48	0
73.15	1.34	33.07	0
73.17	24.49	48.37	0
73.28	17.07	36.84	0
73.36	11.07	38.43	0
73.45	287.76	29.52	0
73.55	43.25	61.78	0
73.67	32.75	58.86	0
73.7	41.65	58.83	0
73.75	317.69	28.91	0
73.88	242.85	46.33	0
73.91	11.48	21.15	0
74.65	3.44	48.45	0
74.73	23.82	50.17	0
74.77	251.08	22.38	2.72
75.04	138.93	31.01	1.2
75.06	64.94	84.42	0
75.19	33.02	56.75	0
75.29	34.84	59	0
75.31	249.57	28.14	0
75.39	10.23	40.24	0
75.51	46.21	48.19	0
75.6	352.78	28.64	0
75.71	287.96	9.14	0
75.84	270.22	43.79	0
76.04	271.3	42.21	0
76.2	106.62	65.07	0.64
76.31	2.12	52.89	0
76.56	0.91	82.56	0.74
77.01	176.37	44.82	0
77.16	233.39	55.15	0
77.38	39.22	59.47	2.33
77.52	31.49	31.05	0
77.62	46.73	28.17	0
77.72	30.67	52.95	0
78.27	52.17	74.24	0
78.44	120.08	39.86	0
79.04	38.88	25.27	0
79.08	45.7	73.29	0.87
79.21	37.51	68.17	0
79.36	69.84	27.63	0

Table D7 Fracture orientation and apertures for BL-0052 (Page 3 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
79.61	39.26	28.45	2.92
79.77	145.88	30.21	0
79.85	45.62	62.2	0
79.97	45.48	68.19	0
80.01	36.01	53.16	0
80.03	28.52	37.78	0
80.11	348.3	35.27	0
80.27	35.34	46.23	0
80.35	345.04	31.82	0
80.48	47.23	33.98	0
80.52	41.45	45.05	0
80.59	49.87	62.74	0
80.68	48.32	65.56	0
80.76	43.61	71.69	0
80.94	22.56	31.73	0
81.19	24.18	31.12	0
81.47	43.41	83.59	0
81.57	48.2	85.74	0
81.62	146.06	17.25	0
81.71	44.25	56.69	0
81.96	51.71	68.44	0
82.23	28.43	59.93	0
82.96	129.92	18.31	0
83.16	37.06	77.49	0.81
83.34	33.07	72.09	1.9
83.4	48.6	62.08	2.17
83.48	13.11	30.14	0
84.08	74.34	32.56	0
84.35	24.79	56.29	0
84.48	33.22	80.7	0
84.7	62.09	19.56	0
85.23	34.73	80.82	0
85.32	35.51	59.47	0
85.46	43.7	58.66	0
85.59	23.95	2.91	0
85.61	30.33	39.73	0
85.74	34.86	72.01	0
85.79	48.51	72.65	0
86.41	301.1	30.96	0.01
86.59	290.87	40.68	0
87.22	229.66	30.31	0
87.63	57.9	42.43	0
87.76	48.55	73.71	0
88.49	28.31	54.9	0
88.56	50.59	70.68	0
88.66	28.89	73.51	0
89.04	49.57	76.12	0
89.11	40.52	60.49	0
89.19	237.13	41.04	0
89.33	47.62	73.27	0
89.53	6.85	46.05	0
89.66	43.04	76.94	0
89.85	49.58	67.44	0
89.95	41.39	76.32	0
90.23	42.99	65.21	0
90.28	39.52	62.09	0
90.32	45.02	54.61	0
90.5	349.3	86.61	0
90.56	13.69	40.46	0
90.7	55.21	82.43	0
90.94	57.3	25.16	0
91.07	261.55	40.91	0
91.18	9.68	32.11	0
91.26	27.63	34.5	0
91.3	7.09	27.98	0
91.37	31.3	29.67	0
91.83	290.67	48.47	0
91.93	28.54	53.41	0
92.06	62.41	69.14	0
92.23	36.95	69.29	0
92.31	142.06	8.34	0
92.42	44.46	69.67	0
92.52	0.77	64.14	0
92.74	42.06	73.85	0.88
92.86	49.04	73.69	0
93.15	42.95	60.88	10.21
93.21	43.63	61.85	0
93.36	43.35	57.58	0
93.43	7.6	44.8	0
93.59	39	54.41	2.48
93.88	48.49	57.66	0
94.1	294.04	12.53	0
94.23	161.12	44.96	3.57
94.35	267.76	42.41	0
94.43	32.05	62.28	0
94.7	293.93	19.78	0
94.86	38.18	48.36	0
94.94	260.61	40.83	0
95.03	244.8	46.29	0
95.27	8.7	36.25	0
95.34	57.25	45.25	0
95.58	85.9	34.4	0
95.98	29.58	56.26	0
96.09	49.82	54.13	0
96.55	348.54	10.92	0
97.82	43.87	70.68	0
98.1	232.42	56.71	0
98.28	77.13	35.21	0
98.74	56.46	77.34	0
98.8	53.13	74.76	0
99.62	104.28	62.59	0
99.84	323.01	47.5	2.68

Table D7 Fracture orientation and apertures for BL-0052 (Page 4 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
100	15.75	37.57	0
100.36	2.44	59.63	0
100.45	56.33	47.35	0
100.89	50.14	73.8	4.2
101.13	342.85	26.08	0
101.29	31.76	75.03	0
101.56	31.4	57.07	0
101.81	42.35	58	0
101.98	35.59	53.43	0
102.37	50.78	51.48	0
102.46	132.78	28.12	0
102.58	323.08	77.39	0
102.64	37.63	32.17	0
102.74	42.01	35.63	0
102.82	332	42.64	0
102.98	8.46	35.12	1.45
103.13	225.73	48.74	0
103.3	26.5	75.22	0
103.33	41.8	62.41	0
103.63	20.92	35.63	0
103.75	12.32	42.43	0
103.77	32.8	36.16	1.42
103.94	53.65	37.41	0
104.23	47.34	66.3	0
104.53	63.49	84.66	0
104.67	36.18	69.34	1.01
104.74	30.39	38.16	0
104.96	64.34	72.91	0
104.98	252.27	26.01	0
105.18	30.08	32.55	0
105.39	43.59	83.76	0
105.51	47.77	26.55	0
105.64	127.79	37.05	0
106	179.4	22.69	0
106.04	257.16	50.94	0
106.49	235.15	86.82	0
106.61	47.2	87.03	2.06
106.94	45.47	51.14	0
107.53	191.86	32.86	1.12
107.73	58.45	7.9	0
108.28	56.12	21.65	14.48
108.33	92.79	36.19	3.87
108.4	44.41	37.63	0
108.51	55.83	78.58	0.69
108.51	8.94	41.1	2.84
108.54	43.72	41.03	12.38
108.76	125.29	71.83	0
109.14	116.58	57.29	0
109.68	57.37	69.4	0
110.37	357.49	86.47	0
111.13	32.73	32.72	0
111.79	14.38	29.92	0
112.25	60.32	86.63	0
113.03	239.72	18.08	0
113.11	222.09	20.29	1.32
114.04	27.51	31.55	0
114.06	27.84	14.18	0
114.52	38.87	28.36	0
115.05	115.4	52.78	0
115.67	330.37	6.18	0
116.64	348.44	45.54	0
116.97	7.86	69.81	0
117.35	9.87	69.03	0
118.76	10.18	72.14	0
119.25	354.84	88.91	0
119.61	39.09	57.24	0
120.72	333.7	36	0
121.73	150.15	41.29	0
122.33	21.06	46.1	0
122.61	22.33	46.41	0
123.21	96.19	67.21	0
124.53	332.62	43	0
126.38	106.9	73.93	0
127.91	121.67	32.1	0
128.46	132.29	14.84	0
130.67	25.9	66.96	0
131.11	74.14	47.49	0
131.32	339.92	38.9	0
131.89	33.36	55.04	0
132.27	18.14	39.32	0
134.04	24.04	49.28	0
134.14	334.06	31.72	0
134.79	327.65	27.4	0
138.11	22.13	41.41	2.81
139.67	13.28	41.18	0
140.2	348.55	47.05	0
141	310.24	28.71	0
142.02	37.48	49.25	0
142.45	307.8	28.35	0
142.76	301.09	82.15	0
144.42	22.98	83.61	0
145.83	282.37	12.79	0
146.24	349.43	27.61	0
149.24	131.14	27.68	0
149.33	176.72	33.14	0
150.75	227.99	28.78	0
151.1	100.11	65.66	0
151.83	96.76	60.53	0
152.46	7.69	5.16	0
153.34	31.29	51.35	0
155.8	18.02	52.11	0
156.07	336.08	23.89	2.96

Table D7 Fracture orientation and apertures for BL-0052 (Page 5 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
156.09	344.11	23.73	1.49
156.19	19.51	38.32	0
157.43	111.54	49.11	0
157.58	4.08	39.85	0
157.78	37.08	86.97	0
158.95	52.19	72.69	0
159.55	116.57	67.67	0
160.47	123.19	68.36	0
161.01	19.45	39.7	0
161.09	16.75	8.26	0
161.1	29.5	61.79	0
161.67	8.97	32.85	0
162.63	47.28	34.07	0
164.17	22.08	32.13	0
165.36	335.27	36.92	0
165.44	269.35	25.92	0
166.21	35.86	49.84	0
166.89	309.93	27.91	1.44
167.64	331.57	30.57	0
168.35	335.77	30.35	0
168.38	18.56	54.35	0
169.48	18.29	39.71	0
169.55	39.8	70.81	0
171.43	111.18	56.13	0
172.31	99.01	62.85	0
173.25	111.45	67.91	0
173.84	106.46	19.01	0
180.47	36.88	82.42	0
182.43	165.63	51.85	0
183.83	37.36	51.82	0
184.23	18.06	37.86	0
187.03	104.38	81.25	0
192.97	41.74	54.26	0
194.75	42.8	42.4	1.37
199.57	108.72	78.65	0
200.98	310.75	78.65	0
206.28	45.56	60.53	0
206.7	109.26	80.28	0
207.09	110.94	80	0
207.9	37.15	60.8	1.16
208.27	233.79	43.38	0
210.65	108.56	72.19	0
212.51	34.2	18.65	0
213.51	38.64	71.14	0
214.16	49.49	71.11	0
214.52	30.53	37.66	0
216.92	39.23	70.18	0
219.07	47.95	47.17	0
219.24	357.4	84.88	0
220.76	47.87	34.82	0
221.76	50.48	11.47	0
222.21	39.59	82.2	0
222.66	34.48	59.11	0
222.77	40.62	51.5	0
228.8	280.39	83.58	0
229.61	38.17	36.27	1.43
230.19	29.28	49	1.36
231.12	293.95	85.45	0
231.65	293.6	81.11	0
234.24	11.97	24.52	178.01
234.36	13.31	27.98	0
234.87	356.18	29.59	0
236.49	47.3	38.75	0
237.75	133.9	55.73	0
241.49	36.12	83.12	0
243.57	7.41	21.86	0
247.33	25.36	20.09	0
248.28	34.49	54.27	0
254.12	215.59	89.3	0
254.34	40.43	80.88	0
255.38	269.61	71.19	0
257.31	143.03	8.38	0
257.55	149.67	8.58	0
261.77	19.63	19.44	0
262.74	49.06	72.23	0
264.58	277.61	79.66	0
264.83	200.83	9.89	0
268.52	35.52	46.55	0
269.72	33.17	51.19	0
269.75	82.22	13.57	0
271.75	11.56	50.83	0
271.87	18.8	60.27	0
271.95	12.83	47.2	2.76
272.69	9.49	45.65	0
273.75	23.15	50.5	0
282.56	358.87	51.72	0
294.86	288.03	81.89	0
295.63	296.51	68.86	0
300.73	356.67	30.37	0
301.59	353.15	32.32	1.51
303.62	162.69	84.16	0
303.88	105.03	21.33	0
305.63	9.58	71.93	0
306.84	11.68	38.84	0
307.8	167.67	85.55	0
314.04	346.9	85.06	0
315.7	346.3	81.18	0
315.98	97.84	57.35	0
316.89	112.65	34.06	0
320.39	64.46	63.25	0
321.42	329.78	75.95	0
322.08	182.03	88.41	0

Table D7 Fracture orientation and apertures for BL-0052 (Page 6 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
327.47	20.7	47.83	0
327.52	3.27	38.54	0
328.5	22.5	64.6	0
328.91	32.08	49.48	1.38
331.29	29.95	45.72	0
332.69	31.05	66.77	0
333.73	27.6	46.13	0
334.32	33.06	42.53	0
334.61	2.48	58.49	0
335.49	24.59	54.46	0
335.58	12.87	55.28	0
336.1	13.25	37.96	0
339.39	14.53	43.2	0
355.02	3.23	17.33	0
359.38	22.31	61.8	0
361.31	21.51	43.4	0
367.91	99.14	50.66	0
369.01	106.03	69	0
370.23	269.26	53.56	0.94
375.19	354.26	37.9	0
378.9	24.22	53.42	0
379.39	25.98	59.66	0
387.95	24.67	71	0
394.25	348.62	84.15	0
394.89	176.15	88.62	0
395.18	4.51	89.39	0
395.46	2.64	85.71	0
398.85	7.34	76.31	0
400.59	31.75	37.09	2.93
401.13	359.03	77.27	0
402.7	41.11	76.93	0
404.71	33.1	64.99	0
406.65	344.57	86.64	0
407.96	120.88	39.72	0
410.17	48.45	47.06	0
411.71	37.92	50.66	1.36
415.27	166.94	82.2	0
416.26	351.62	87.16	0
417.24	135.86	49.32	0
419.09	30.68	20.53	0
422.86	358.2	43.52	0
422.89	289.71	63.46	0
424.16	286.12	47.31	0
425.59	355.63	26.75	0
426.17	217.09	86.16	0
429.56	309.94	33.6	0
429.64	308.83	38.03	0
432.87	9.67	24.93	0
434.16	168.34	87.8	0
434.8	355.57	70.58	0
435.29	9.96	80.27	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
435.53	35.26	59.5	0
435.84	47.09	44.51	0
435.91	132.75	21.92	0
435.93	349.6	63.24	0
436.3	77.84	39.92	0
436.37	21.99	46.55	0
436.53	25.02	37.84	0
437.36	169.6	43.71	0
439.24	155.99	80.21	0
439.4	182.65	17.57	0
439.66	341.14	17.61	0
439.69	350.45	12.61	0
442.41	12.7	47.56	1.43
443.49	27.13	76.8	2.06
443.59	7.62	61.71	0
444.14	109.3	41.2	0
447.14	141.16	54.55	0
448.4	107.57	48.81	0
448.56	130.94	48.19	0
449.14	156.01	80.24	0
449.34	45.17	64.8	0
449.37	37.07	51.89	0
449.44	28.53	48.11	1.44
449.62	350.92	65.23	0
450.06	109.77	62.32	0
450.12	94.32	32.23	0
451.94	351.07	88.83	0
452.29	27.99	56.17	1.34
453.39	41.23	88.09	0
453.88	29.11	33.78	0
454.54	8.91	42.92	0
End			

Table D8 Fracture orientation and apertures for BL-0077 (Page 1 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
6.68	332.3	22.25	0
6.74	354.34	23.9	0
6.82	18.02	55.22	0
6.87	32.41	27.29	0
6.93	235.45	89.67	0
7.38	70.01	64.35	0
7.4	65.86	65.88	0
7.7	240.18	88.77	0
7.85	42.73	58.78	0
7.89	39.94	40.25	2.89
8.61	34.33	64.04	1.23
8.65	28.43	65.16	3.79
8.73	19.79	25.7	0
9.23	62.16	74.72	0
9.23	297.57	23.68	0
9.37	110.28	62.38	0.57
9.46	60.36	75.96	1.74
9.82	34.24	43.82	0
10.15	8.32	49.63	0
10.65	277.79	52.31	0
10.96	350.48	30.8	0
11.26	288.99	16.47	1.24
11.97	34.8	81.18	0
12.32	20.87	82.32	0
12.76	319.05	25.03	0
12.95	359.92	39.12	0
13.44	347.42	27.91	0
13.75	24.1	38.23	0
13.79	300.12	27.38	2.44
14.12	29.78	76.04	0
14.14	50.68	62.06	0
14.36	50.23	58	0
14.43	36.87	68.06	0
14.72	32.91	48.82	0
14.87	36.43	64.82	0
15.11	356.15	24.23	0
15.33	34.94	60.53	0
16.09	173.47	85.42	0
16.41	0.31	68.11	0
16.52	47.72	67.12	0
16.59	341.99	13.64	0
17.35	356.62	42.63	0
17.35	303.4	24.76	0
17.54	73.07	66.64	0
17.58	43.86	69.11	0
18.53	30.56	89.88	0
18.61	215.94	87.74	0
18.68	52.69	57.98	1.21
18.72	90.46	46.4	2.07
18.87	119.21	32.68	6.87
18.88	44.41	81.27	1.75

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
20.11	357.86	78.9	0
23.7	253.17	29.53	3.59
24.68	224.66	82.16	0
24.89	68.89	53.14	2.29
25.08	42.16	69.79	0
25.27	43.3	56.1	0
26.07	205.64	89.63	0
26.91	41.18	80.42	0
27.01	38.05	83.72	0
28.36	352.85	82.45	0
29.2	47.8	45.22	0
29.36	351.36	66.38	0
31.06	31.07	61.97	0
31.12	80.1	27.55	0
31.29	37.34	56.11	0
31.44	64.23	52.37	0
31.61	49.05	42.27	0
31.69	21.44	56.17	0
31.72	67.53	28.08	0
31.77	50.91	72.77	0
31.82	101.35	37.74	0
31.86	188.86	15.38	0
31.91	38.48	64.41	0
31.96	60.38	68.92	0
32.2	177.14	89.93	0
32.33	43.98	61.43	0
32.79	253.11	32.39	0
33.14	41.74	75.87	0
33.52	44.69	89.96	0
33.86	41.19	68.06	0
33.87	165.58	44.8	0
33.88	64.11	44.11	0
34.97	36.14	66.88	0
35.01	35.63	62.06	0
35.02	41.2	64.95	0
35.08	26.38	51.29	0
35.35	174.55	87.38	0
35.43	350.74	47.35	0
35.73	212.99	88.91	0.75
35.77	172.57	81.84	0
36.12	21.55	81.71	0
36.27	174.26	80.92	0
36.37	11.31	47.55	0
36.51	24.03	65.72	0
36.57	17.62	48.16	0
36.67	21.4	49.84	0
36.75	38.97	84.2	0
36.77	301.63	15.77	0
36.96	8.13	45.66	0
37.08	15.29	48.5	0
37.16	31.38	56.24	0

Table D8 Fracture orientation and apertures for BL-0077 (Page 2 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
37.49	13.93	40.56	0
37.55	79.21	19.52	0
37.77	133.32	49.21	0
37.84	256.3	53.15	0.69
37.86	59.89	36.14	0
38.01	44.05	33.13	0
38.09	3.72	82.24	0
38.11	138.62	17.52	0
38.15	52.85	32.1	0
38.27	2.76	52.4	0
38.51	41.54	40.81	0
39.06	16.11	54.48	0
39.63	123.15	52.47	3.21
40.33	347.24	61.13	0
40.57	9.36	45.12	0
40.99	124.71	36.99	0
41	341.8	52.38	0
41.86	58.49	45.26	0
42.13	357.41	70.34	0
42.36	341.09	65.81	0
43.36	293.63	34.15	0
43.67	324.15	52.75	0
44.54	347.09	35.8	0
45.06	242.27	12.3	0
45.39	3.67	68.14	0
45.64	13.28	70.43	0
46.63	337.3	61.99	0
46.88	357.11	50.61	0
47.74	179.24	88.09	0
48.26	12.43	54.76	0
49.28	38.07	47.29	0
49.76	331.9	24.8	0
50.08	317.43	22.09	0
50.36	74.13	84.05	0.62
50.46	47.68	59.58	0
50.63	347.81	67.16	0
50.71	178.76	89.38	0
51.23	189.13	88.75	0
51.89	183.45	67.55	0
53.18	338.45	45.41	0
53.31	74.19	72.01	0
54.23	51.68	69.91	0
54.87	47.7	77.2	0
56.48	351.83	55.34	0
56.83	88.35	68.55	0
57.55	93.64	63.87	2.25
57.79	237.72	36.62	3.24
58	185.11	86.44	0
58.09	84.17	75.47	0
58.39	27.27	48.83	0
58.84	215.15	73.78	1.15

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
58.96	216.91	34.04	0
59.03	27.7	58.61	2.73
59.14	205.46	41.71	0
59.68	343.99	41.15	0
61.27	6.27	74.21	0
61.39	35.33	74.22	0
61.59	46.75	84.53	0
62.51	242.51	85.7	0
62.54	74.4	53.93	0
63.64	53.87	68.02	0
63.69	53.23	81.4	1.68
63.73	23.92	51.64	0
64.39	38.93	84.43	0
64.68	356.64	75.87	0
64.78	8.57	47.53	0
65.32	58.56	29.53	0
65.36	64.86	19.84	0
65.42	14.59	53.99	0
65.44	3.48	66.47	0
65.81	69.8	8.88	0
65.85	138.56	28.84	0
66.35	99.6	57.74	0
66.68	69.69	86.96	0
67.26	345.2	17.39	0
67.3	343.47	32.57	0
67.32	347.91	85.37	0.81
67.34	351.3	53.16	0.01
67.37	299.1	0.76	0
67.57	324.66	40.9	0
67.59	63.08	80.93	0
67.67	354.23	42.37	0
67.76	327.37	31.26	0
67.87	6.14	47.65	0
67.91	293.85	19.86	0
67.98	343.72	27.06	2.86
68.05	17.58	46.37	23.31
68.36	276.3	52.4	0
68.37	349	70.71	0
68.49	223.69	35.94	0
68.58	268.13	30.38	0
68.8	28.69	36.31	0
68.96	30.21	23.43	32.44
69.02	77.28	9.8	0
69.95	11.27	41.91	0
70.01	323.63	39.84	0
70.05	335.91	42.85	0
70.23	155.54	58.01	0
70.5	312.87	17.22	0
71.06	86.09	52.16	0
71.2	307.17	69.92	0
72.02	31.52	49.74	0

Table D8 Fracture orientation and apertures for BL-0077 (Page 3 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
73.05	138.03	25.63	0.96
73.95	25.32	13.3	0
74.44	26.8	84.67	0
74.45	46.32	82.07	0.88
74.5	21.52	50.87	0
74.81	343.4	31.65	0
74.84	325.73	28.01	1.35
75.2	34.04	53.32	2.67
75.23	199.5	16.66	0
75.57	10.29	41.66	0
78.47	63.93	79.38	0.79
78.57	179.93	88.92	0
79.49	2.46	31.88	0
79.95	5.18	85.12	0
80.5	39.85	60.68	0
80.7	343.53	9.67	0
81.5	308.12	7.72	0
81.57	97.42	48.37	0
81.57	163.23	86.4	0.59
81.71	359.56	88.08	0
81.89	43.08	81.62	0
82.57	1.77	24.29	1.47
83.01	6.59	61.87	0
83.02	7	64.32	0
83.62	191.83	84.52	0
83.79	8.33	43.05	0
83.82	4.13	44.55	0
83.85	10.32	47.51	0
84.21	46.16	31.72	0
84.73	7.42	53.14	0
84.82	11.8	48.94	0
84.95	180.96	37.09	1.61
85.05	187.46	52.17	0
85.53	188.49	44.24	0
85.83	52.84	88.54	0.7
86.02	45.67	70.84	0
86.09	54.04	67.08	0
86.44	229.18	87.93	0
86.77	15.55	54.49	0
87.99	14.97	44.7	0
88.31	7.99	43.85	0
88.65	2.03	45.53	0
88.82	16.42	54.78	0
89.21	21.77	45.97	2.92
89.74	15.17	49.17	0
90.15	49.21	66.78	0
90.67	128.11	41.16	0
90.89	114.96	40.46	0
91.18	40.81	12.75	0
92.55	287.82	40.08	0
93.03	330.49	21.55	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
93.24	7.37	56.27	0
93.96	343.61	45.65	0
95.14	22.04	61.63	2.62
95.21	10.23	61.94	0
97.48	55.49	60.15	0
99.93	46.71	49.59	0
100.07	262.62	40.08	0
100.52	55.06	66.99	0
101.26	32.13	82.74	0
101.35	63.15	44.26	0
101.41	65.07	72.44	0
102.91	11.2	44.7	0
103.26	26.22	70.5	0
103.31	4.18	73.21	0
103.69	325.38	75.93	0
104.4	17.13	63.99	0
105.78	152.21	73.59	0
106.29	64.34	5.43	0
109.44	193.95	80.85	0
110.65	23.09	78.21	0
112.01	70.79	74.95	0
112.7	206.87	81.9	0
112.8	238.4	47.84	0
113.34	43.58	73.26	0
113.65	51.72	61.33	0
113.7	65.04	73.15	0
113.76	63.51	39.25	0
114.62	5.33	86.16	0
114.83	80.46	45.74	0
115.14	63.52	69.86	1.92
115.21	317.47	50.17	0
115.36	349.94	74.37	0
115.43	59.25	15.3	0
116.08	58.89	55.95	1.21
116.42	32.88	50.09	0
116.82	353.92	88.86	0
116.96	151.49	89.13	0
117.12	342.43	74.31	0
117.56	308.53	88.19	0
117.71	34.08	59.4	0
118.06	168.5	87.16	0
120.68	62	80.4	0
120.8	27.19	72.44	0
120.87	24.77	54.59	0
122.14	82.75	44.31	0
123.03	330.33	80.36	0
125.56	110.74	51.53	0
126.33	31.07	66.29	0
126.66	31.13	73.85	0
127.07	9.9	62.89	0
127.4	31.05	45.95	0

Table D8 Fracture orientation and apertures for BL-0077 (Page 4 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
127.52	16.37	61.26	0
127.74	218.71	86.73	0
127.78	347.26	51.93	0
127.84	339.45	78.29	0
128.02	45.64	52.37	0
128.12	154.04	23.3	0
128.41	45.61	79.38	0
129.31	28.72	65.53	0
129.57	29.05	82.7	0
129.66	26.01	81.56	0
129.89	13.94	52.38	0
130.18	62.7	22.71	0
130.76	40.99	47.13	0
131.14	30.89	50.77	0
131.39	40.68	43.06	0
131.67	22.12	46.79	0
132.18	26.54	46.48	0
132.26	33.38	54.03	0
132.77	38.87	58.25	0
133.12	38.57	64.94	0
133.6	36.36	50.67	0
133.9	37.86	36.42	1.47
134.34	323.67	17.46	0
134.59	242.47	23.89	0
134.62	50.37	89.29	0
134.9	1.1	80.64	0
135.47	235.79	89.89	0
136.67	60.84	42.53	0
137.09	29.96	49.05	0
137.2	47.88	40.77	0
137.42	27.19	65.07	0
137.67	44.61	83.69	0
137.77	223.36	83.76	0
138.06	48.58	77.35	0
138.09	43.9	80.03	0
138.16	41.33	71	0
138.36	38.51	64.06	0
138.41	35.78	67.48	0
138.8	39.13	84.43	0
139.2	51.61	61.06	0
139.64	44.52	30.86	0
139.76	93.33	34.94	0
139.9	43.8	69.67	0
140.18	71.39	28.63	0
140.41	32.26	53.27	0
140.62	44.52	66.9	0
140.7	40.53	61.9	0
140.87	33.4	50.07	0
140.94	35.26	50.09	0
141.47	54.7	60.23	0
141.6	47.51	57.59	0
141.85	45.17	69.95	0
141.95	29.7	77.07	0
142.07	39.93	67.98	0
142.36	38.82	79.89	4.29
142.39	38.16	71.02	0
142.57	52.88	63.47	0
143.11	47.44	79.16	0
143.21	60.92	21.92	0
143.77	341.6	24.46	0
143.94	29.11	26.7	0
144.41	41.64	69.08	0
144.54	200.75	13.15	0
144.55	26.1	74.61	0
144.87	28.57	22.51	0
145.28	44.61	71.7	0
146.03	42.95	58.25	0
146.26	58.47	49.81	0
146.46	46.21	57.6	0
146.87	45.74	43.03	0
147.77	42.34	61.44	0
148.52	216.15	88.56	0
149.44	31.47	70.78	0
149.71	210.4	9.63	0
149.78	310.12	8.28	0
149.84	359.79	36.26	0
150	358.79	25.31	0
150.18	32.88	65.98	0
150.28	34.97	56.74	0
150.86	58.35	26.94	0
151.1	41.59	26.42	0
151.16	53.83	9.04	0
151.23	62.7	22.5	0
151.29	19.68	34	0
151.42	23.22	21.93	0
151.58	29.23	62.71	0
151.69	341.84	21.01	0
151.76	30.97	54.4	0
151.79	31.22	48.85	0
152	220.41	78.98	0
152.21	47.31	50.94	0
152.33	22.31	46.75	0
152.58	40.63	80.22	0
152.62	27.41	53.83	0
152.63	42.04	44.34	0
152.77	36.53	54.93	0
152.8	40.32	52.79	0
152.89	50.77	43.89	0
152.98	36.18	43.9	0
153.27	24.27	79.15	0
153.39	32.89	43.13	0
153.56	30.7	48.71	0

Table D8 Fracture orientation and apertures for BL-0077 (Page 5 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
153.66	14.47	29.43	0
153.76	37.98	52.44	0
154	33.33	67.84	0
154.07	36.89	53.31	0
154.13	40.75	58.53	0
154.37	36.26	49.89	0
154.52	29.2	43.43	0
154.56	34.63	71.38	4.59
154.68	32.3	62.74	0
154.74	37.22	57.82	0
154.87	332.82	87.89	0
155.06	46.76	49.31	0
155.13	33.03	71.28	0
155.22	47.01	59.39	0
155.31	16.83	88.96	0
155.41	35.56	69.62	0
155.52	26.59	73.95	0
155.57	42.84	68.62	0
155.67	36.5	59.09	2.66
155.84	42.87	54.48	0
156.07	39.15	66.73	0
156.2	43.06	46.55	0
156.43	48.32	53.89	0
156.51	35.06	71.93	0
156.62	44.06	51.94	0
156.66	321.95	40.04	0
156.95	43.17	78.03	0
157.03	310.41	23.31	0
157.22	236.63	79.64	0
157.26	95.84	19.99	0
157.27	36.04	62.68	0
157.34	20.5	45.97	0
157.56	19.55	73.35	0
157.63	60.51	42.6	0
157.9	16.46	15.63	0
158.13	42.18	51.05	0
158.16	30.99	24.1	0
158.67	200.55	85.99	0
158.79	36.49	61.5	0
158.89	201.45	88.17	0
159.23	37.45	69.71	0
159.35	33.92	46.86	0
159.47	33.42	59.16	0
159.51	30.02	71.19	1.16
159.64	30.09	59.45	0
159.85	24.19	62.9	0
159.94	349.04	34.02	0
160.1	67.84	56.63	0
160.14	84.66	34.66	0
160.15	97.48	34.28	0
160.22	30.64	68.3	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
160.33	64.17	15.37	0
160.36	39.34	57.72	0
160.4	41.15	44.34	0
160.54	17.64	18.54	0
160.8	21.63	59.29	0
160.84	34.74	43.01	0
160.91	32.29	55.69	0
161.24	34.94	58.82	0
161.44	29.69	59.31	0
161.63	42.55	28.59	0
161.78	28.09	56.53	0
162.26	10.35	43.08	0
162.39	31.26	67.4	0
162.68	50.98	18.05	0
162.75	222.25	18.1	0
162.75	33.88	50.2	0
162.9	39.64	51.18	0
163.27	33.4	52.37	0
163.44	31.15	50.59	0
163.67	30.06	68.93	0
163.83	21.13	62.5	0
164.2	28.82	67.62	0
164.33	336.47	45.94	0
164.71	22.96	48.05	0
164.85	37.19	55	0
164.93	14.4	66.74	0
165.41	22.41	62.19	0
165.48	138.21	8.79	0
166.12	38.84	77.16	0
166.26	358.13	12.31	0
166.72	30.03	69.3	0
166.74	31.48	58.62	0
166.81	355.02	17.3	0
166.86	29.99	54.07	0
166.97	2.17	26.49	0
166.98	26.41	70.9	0
167.09	28.64	47.22	0
167.33	27.93	62.41	0
167.35	43.54	45.07	0
167.5	143.09	17.32	0
167.59	44.33	43.53	0
167.62	33.68	42.69	0
167.74	43.74	41.1	0
168.39	12	14.8	0
168.42	351.2	23.03	0
168.94	30.84	73.09	0
169	24.63	18.19	0
169.68	356.5	57.28	0
169.76	55.48	32.87	0
170.41	357.83	49.23	0
170.55	19.6	68.92	0

Table D8 Fracture orientation and apertures for BL-0077 (Page 6 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
170.79	18.43	51.13	0
170.95	188.65	38	0
171.13	1.47	40.89	0
171.58	180.79	5.54	0
171.93	351.19	60.5	0
172.01	353.34	47.81	0
172.12	16.46	40.35	0
172.21	12.55	50.13	0
172.83	70.96	19.47	0
172.88	20.85	20.83	0
173.13	37.96	13.98	0
173.34	65.95	17.54	0
173.42	1.76	52.19	0
173.52	44.94	18.2	0
173.57	175.46	10.54	0
174.22	60	20.16	0
174.47	30.32	5.63	0
174.73	175.67	40.73	0
175.1	356.41	43.87	0
175.19	342.38	31	0
175.39	109.87	8.41	0
176.05	202.59	75.25	0
176.12	228.28	31.5	0
176.22	225.06	28.04	0
176.3	15.08	58.8	0
176.41	213.56	36.06	0.56
176.77	211.6	80.92	0
176.84	211.43	42.24	0
176.93	26.26	75.62	0
177.02	51.02	38.56	0
177.12	70.04	47.8	0
177.25	3.26	60.04	0
177.3	161.93	10.66	0
177.73	306.33	46.4	0
177.88	17.01	60.65	0
177.98	2.17	45.13	0
178.02	324.46	45.74	0
178.18	357.43	46.38	0
178.35	23.27	67	0
178.8	58.24	41.47	0
178.84	70.38	27.24	0
178.91	92.7	39.55	0
178.97	65.69	50.24	0
179.02	27.17	48.36	0
179.17	206.92	77.63	0
179.37	55.35	79.29	0
179.5	56.18	46.67	1.34
179.59	59.32	36.7	0
179.72	71	28.83	0
179.76	162.17	18.71	0
179.78	141.37	20.15	0
179.82	178.73	16.09	0
179.89	171.07	21.49	0
179.94	114.9	17.97	0
179.97	149.6	11.64	0
180.01	174.79	10.53	0
180.03	110.47	7.55	0
180.09	96.73	19.38	0
180.12	88.81	17.08	0
180.16	57.07	11.4	1.36
180.37	38.45	30.24	0
180.44	80.76	16.94	0
180.53	40.98	39.83	0
180.59	37.31	38.29	0
180.68	45.47	59.7	0
180.75	16.79	65.05	0
180.82	4.63	53.77	0
180.96	14.65	54.44	0
180.97	164.99	21.98	0
180.99	24.17	56.18	0
181.03	25.02	45.39	0
181.09	159.67	24.96	0
181.17	178.84	28.71	0
181.2	55.88	15.89	0
181.34	41.84	51.07	2.76
181.46	57.42	51.5	0
181.71	13.37	85.62	0
181.77	62.78	23.32	0
181.88	52.41	46.69	0
182.02	19.87	50.87	0
182.11	91.48	65.33	0
182.17	24.17	83.44	0
182.28	89.11	29.77	0
182.54	92.78	61.86	0
182.6	132.21	39.39	0
182.66	201.04	88.08	0
182.77	52.96	45.91	0
182.83	24.82	53.93	0
182.95	27.54	61.12	0
183.06	32.22	62.95	0
183.27	74.58	57.36	0
183.64	337.56	17.8	0
184.25	79.66	56.84	0
184.59	73.6	21.04	0
184.62	29.83	71.42	0
184.74	263	35.65	0
184.8	263.17	36.77	0
184.91	147.48	12.47	0
184.97	55.16	39.49	0
185.08	54.28	47.18	1.37
185.25	53.9	35.69	0
185.64	79.21	64.69	0

Table D8 Fracture orientation and apertures for BL-0077 (Page 7 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
185.9	65.21	48.83	0
186.14	50.22	13.78	0
186.18	50.43	21.04	0
186.26	132.41	12.38	0
186.36	90.12	11.41	0
186.41	103.28	20.48	3.67
186.73	172.21	15.81	0
186.76	160.11	8.3	0
186.79	64.62	50.63	0
187.02	65.92	21.82	0
187.43	56.86	36.45	0
187.5	86.31	26.24	0
187.74	108.44	43.41	0
187.79	56.02	17.92	0
187.98	58.3	74.05	0
188.14	39.22	47.94	0
188.19	37	51.99	0
188.2	69.81	26.68	0
188.7	12.76	60.6	0
188.79	84.79	60.93	0
188.83	85.89	65.85	0
189.08	182.97	6.51	0
189.19	54.42	23.35	0
190.19	338.21	40.7	0
190.83	353.69	51.01	0
191.17	50.09	29.73	0
191.28	33.44	44.99	0
191.6	275.21	17.29	0
191.66	256.72	12.89	0
191.81	280.7	18.28	0
192.2	45.17	38.42	0
192.39	53.69	42.39	0
192.61	27.71	17.01	0
192.77	32.73	50.96	0
192.81	22.76	42.82	0
193.14	39.06	32.04	0
193.33	34.45	87.51	0
193.45	188.56	16.12	0
193.46	34.46	88.58	0
193.59	62.78	14.04	0
193.76	312.91	39.57	0
193.94	29.78	87.24	0
194.09	48.01	69.48	0
194.36	31.29	64.51	0
194.52	12.41	67.09	0
194.79	33.78	41.03	0
194.9	26.58	61.79	0
194.93	20.21	55.09	0
194.99	55.78	71.55	0
195.22	34.04	67.46	0
195.59	45.88	64.33	0
195.63	23.23	52.08	0
195.72	51.97	65.12	0
195.85	39.39	78.91	0
195.9	20.53	82.86	0
196.18	47.72	55.38	0
196.4	45.73	51.32	0
196.53	77.7	27.37	0
196.62	13.96	48.4	0
196.8	30.5	45.3	0
196.92	37.18	44.44	0
197.13	148.02	35.32	0
197.25	145.47	43.92	0
197.44	34.43	37.19	0
197.47	21.17	49.85	0
197.66	75.8	30.13	0
197.7	48.4	41.95	0
197.74	23.43	72.81	0
198.37	342.51	37.81	0
198.44	281.8	7.82	0
198.52	353.18	25.86	0
198.69	114.42	18.29	0
198.79	145.35	22.17	0
199.06	39.97	57.84	0
199.69	148.77	24.45	0
200.32	58.47	32.17	0
200.92	310.21	9.7	0
201.14	167.5	22.8	0
201.74	43.31	8.38	0
202.04	200.42	13.18	0
202.47	100.43	30.52	0
202.53	278.97	40.02	0
202.72	102.09	38.11	0
202.96	122.13	29.48	0
203.12	149.66	24.14	0
203.16	85.59	19.27	0
203.19	48.09	9.32	0
203.26	18.1	33.97	0
203.63	92.38	15.3	0
203.78	69.2	52.14	0
203.87	71.72	54.09	2.35
204.27	255.21	7.26	0
204.33	352.19	57.66	0
204.5	38.6	63.19	0
205.34	325.96	18.05	0
205.41	21.39	86.31	0.88
205.9	147.13	19.87	0
206	49.47	24.73	1.46
206.24	243.19	23.61	0
206.45	15.73	44.78	0
206.61	28.35	51.97	1.4
206.72	30.35	44.95	0

Table D8 Fracture orientation and apertures for BL-0077 (Page 8 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
207.13	20.96	52.17	0
207.33	12.87	49.2	25.73
207.38	11.59	53.89	0
207.61	8.14	63.58	1.26
207.66	352.28	47.36	0
207.75	91.65	35.58	0
208.13	341.38	42.86	1.33
208.79	44.38	44.29	0
209.18	17.2	48.87	0
209.22	13.09	34.5	0
209.33	111.66	40.24	0
209.35	51.68	59.24	0
209.4	48.39	74.24	0
209.49	351.11	71.28	0
209.68	24.16	54.52	0
209.75	40.59	64.5	0
209.98	205.36	31.32	0
210.62	254.03	28.19	0
210.86	72.24	31.87	0
211.66	70.55	68.94	0
211.73	50.29	63.12	0
211.77	66.39	53.24	0
212.05	1.84	41.16	0
212.31	24.94	27.23	0
212.89	43.45	66.04	0
212.98	74.23	64.05	0
213.12	35.37	48.31	0
213.24	95.24	18.83	0
213.47	26.84	84.66	0
213.75	346.06	44.34	0
214.12	56.43	27.2	0
214.4	82.51	34.78	1.27
214.48	59.04	27.32	0
214.62	8.81	31.47	0
214.71	42.19	87.54	0
214.9	56.62	12.14	0
215.3	109.51	20.91	0.01
215.46	39.82	50.22	0
215.54	26.95	45.81	0
215.9	9.6	24.22	0
217.44	34.41	19.76	0
217.61	3.05	56.25	0
217.9	55.42	61.08	0
218.07	35.58	35.7	0
218.29	211.96	84.01	0
219.38	70.62	49.16	0
220.09	66.55	45.75	0
220.56	38.29	85.13	0
220.72	39.89	47.79	0
221.16	49.7	44.62	0
222.37	43.74	61.4	0
222.6	53.12	51.4	0
222.99	33.99	56.85	0
223.35	93.02	69.35	0
223.77	30.52	45.51	0
224.59	208.36	23.89	0
224.79	59.01	49.02	0
224.95	76.99	19.18	0
226.12	109.41	8.39	0
226.16	53.92	8.48	0
226.72	24.5	59.21	0
226.91	19.6	62.5	0
226.98	69.1	49.95	0
227.21	71.67	14.07	0
227.3	34.84	81.21	0
227.31	200.26	18.21	0
228.11	59.38	44.73	0
228.21	84.54	24.63	0
228.24	77.1	28.97	0
228.43	36.98	66.19	0
228.49	105.6	25.09	0
228.66	127.71	38.77	0
228.77	98.33	51.41	0
229.16	51.98	34.57	0
229.29	22.78	57.65	0
229.47	48.28	36.28	0
229.55	27.83	31.4	0
229.93	33.71	74.75	0
230.28	27.14	71.48	0
230.32	35.52	65.69	0
230.37	28.94	84.36	0
230.49	330.14	22.88	0
230.57	118.93	62.87	0
230.58	47.56	54.54	0
230.63	31.69	17.87	0
230.81	51.3	46.81	0
230.85	32.11	49.11	0
231.8	43.84	46.49	0
232.3	76.66	49.34	0
232.55	36.79	65.91	0
232.74	83.5	54.45	0
233.13	32	56.29	0
233.33	27.61	80.6	0
233.39	29.01	64.48	0
233.73	18.02	68.26	0
234.03	9.8	59.82	0
234.77	33.12	55.67	0
235.96	28.84	57.63	2.72
236.42	203.11	82.45	0
236.79	205.05	71.11	0
237.23	33.78	47.31	0
237.28	72.28	26.94	0

Table D8 Fracture orientation and apertures for BL-0077 (Page 9 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
237.64	83.05	38.28	0
237.74	67.8	53.6	0
238.17	357.21	60.55	0
238.78	36.83	70.4	0
238.96	53.47	35.45	0
239.03	71.32	55.99	0
239.28	73.11	74.36	0
239.7	33.33	53.24	0
239.92	41.28	66.19	0
240.12	32.98	63.52	0
240.18	2.99	26.17	0
240.43	32.2	67.83	0
240.59	84.88	48.44	0
240.97	103.64	25.47	0
241.02	75.75	40.57	0
241.32	66	39.91	0
241.87	1.25	29.63	0
243.83	59.6	69.49	0
243.99	68.81	50.01	0
244.11	3.37	69.82	0
244.29	25.18	70.02	0
244.55	9.87	56.77	0
244.69	48.72	2.38	0
246.27	74.01	58.89	0
246.87	29.95	57.12	0
247.05	47.68	64.84	0
247.19	48.11	71.77	0
247.55	56.52	47.33	0
247.69	115.67	53.13	0
251.03	55.66	70.62	0
251.27	10.89	75.44	0
251.58	37.43	58.53	0
251.7	35.58	73.7	0
252.48	206.29	68.05	0
252.93	40.42	83.2	0
253.08	36.12	71.63	0
254.8	41.03	56.45	0
255.15	228.5	12.35	0
257.41	156.8	83.72	0
257.95	156.66	80.16	0
261.2	352.46	79.28	0
261.82	187.8	5.83	0
262.13	310.68	78.02	0
263.6	229.27	34.73	0
264.33	220.7	21.32	0
265.19	236.1	81.35	0
265.55	75.25	8.79	0
266.92	221.57	29.08	0
267.2	47.93	74.54	1.06
267.41	157.56	6.91	3.49
268.85	20.17	40.74	2.9

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
275.51	26	47.4	0
275.69	65.86	7.52	0
276.05	217.56	89.28	0
279.93	345.15	49.43	0
280.87	180.99	71.41	0
284.48	350.72	35.37	0
284.53	353.26	31.54	0
296.23	246.23	79.41	0
302.85	41.76	69.86	0
302.93	67.68	50.63	0
End			

Table D9 Fracture orientation and apertures for BL-0098 (Page 1 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
8	26.77	65.28	0
8.08	39.16	5.38	0
8.29	26.71	52.71	0
8.4	305.14	30.63	0
8.46	64.02	19.85	0
8.54	66.98	65.99	0
8.73	31.29	51.61	0
9.05	20.29	45.11	0
9.35	43.08	74.31	0
9.54	19.52	72.31	1.15
9.89	12.53	40.76	0
9.94	37.52	66.47	0
10.05	24.96	53.34	0
10.35	347.52	48.6	0
10.48	353.22	56.82	0
10.59	47.64	43.01	0
10.69	20.94	54.14	0
10.82	35	60.88	0
11.31	46.95	35.29	2.94
11.37	1.44	46.92	0
11.58	345.52	35.83	2.85
11.69	282.34	51.36	0
12.21	38.04	54.5	0
12.37	75.95	7.72	0
12.41	28.66	76.41	0
12.53	11.06	34.81	0
12.73	16.25	30.28	0
12.9	335.86	60.63	0
12.94	356.87	37.03	4.37
13.02	3.75	29.71	0
13.15	28.86	74.22	0
13.26	21.55	42.52	0
13.56	327.91	14.78	0
13.67	18.21	44.07	0
13.82	348.12	35.74	0
13.92	44.05	54.85	0
13.97	357.16	48.05	0
14.09	26.23	48.15	0
14.33	6.41	61.7	0
14.42	36.28	64.45	0
14.8	8.44	60.03	0
14.9	37.49	56.32	0
15.16	36.07	77.53	0
15.34	302.45	27.26	0
15.38	273.9	17.72	1.31
15.58	328.99	22.7	0
16	10.55	53.32	0
16.17	2.76	32.03	0
16.68	61.34	89.76	0
16.75	30.41	82.44	0
16.78	21.89	44.36	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
16.95	38.22	86.24	0
16.97	34.59	81.05	0
17.62	325.75	38.55	0
17.8	11.43	33.89	0
18.01	314.05	41.03	1.29
18.2	34.2	59.3	0
18.88	0.83	28.76	0
19.33	5.09	29.18	0
19.85	351.02	20.44	0
19.87	14.51	48.54	0
19.94	250.81	22.45	0
20.36	335.38	41.28	0
20.9	5.96	87.79	2.37
21.48	345.2	9.84	0
22.13	354.41	20.34	0
22.31	20.82	7.96	0
22.63	319.67	27.23	0
22.9	322.15	38.64	0
23.05	359.34	70.46	0
23.36	299.99	42.83	0
23.65	132.7	32.59	0
24.26	150.09	8.97	0
24.37	358.44	58.14	0
24.82	26.84	51.52	0
24.96	289.23	36.92	0
25.04	345.47	61.25	0
25.75	342.08	79.48	1.67
26.17	49.65	71.01	0
26.98	25.73	89.78	0
27	352.75	68.02	1.16
27.42	347.18	74.91	0
27.69	32.06	69.94	0
28.03	213.74	40.67	0
28.17	217.07	83.82	0
28.22	29.63	73.39	0
28.43	222.51	43.86	0
28.66	247.24	21.94	2.36
28.69	260.6	33.12	0
28.75	291.66	12.2	5.5
29.2	285.39	22.15	0
29.5	182.2	53.99	0
29.61	30.25	57.99	0
29.64	21.98	69.97	0
29.82	337.01	71.46	0
29.82	273.1	14.95	0
29.97	42.9	55.45	0
30.14	31.53	67.53	0
30.23	339.31	63.6	0
30.34	2.14	84.82	0
30.37	5.9	52.43	0
30.58	88.5	35.27	0

Table D9 Fracture orientation and apertures for BL-0098 (Page 2 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
30.58	338.78	83.77	0
30.82	214.04	32.03	0
31.03	30.04	78.34	0
31.09	90.82	45.39	0
31.99	329.86	71.65	0
32.11	27.31	69.85	0
32.2	130.42	8.28	0
32.61	43.75	85.76	0
32.62	326.61	72.74	1.83
34.21	35.34	86.94	0
34.26	38.54	82.88	0
34.51	351.48	69.74	0
34.65	69.6	43.76	0
34.73	52.54	66.31	0
35.22	160.39	86.11	0
35.28	175.8	10.73	0
35.29	130.52	5.28	2.78
35.48	82.48	36.12	0
35.89	330.62	69.1	0
36.29	289.36	13.49	0
36.81	352.28	7.63	0
37.01	2.82	14.9	0
37.43	230.69	89.27	0
38.07	330.6	86.5	0
38.2	194.51	25.89	0
39.7	33.99	30.24	0
39.74	243.62	16.77	1.25
39.91	44.78	53.98	0
39.97	43.97	37.82	0
40.47	188.43	13.01	0
41.71	187.27	29.71	0
41.87	342.45	66.98	56.49
42.31	134.28	32.82	0
42.36	132.46	38.44	2.12
42.72	258.07	52.91	0
43.06	206.65	33.32	1.81
43.13	78.8	36.5	0
43.77	359.45	72.83	0
43.88	56.06	15.6	0
44.55	40.74	73.72	0
44.99	15	50.74	0
45.01	177.04	41.54	0
45.02	236.2	33.79	0
45.07	45.09	7.01	0
45.23	320.44	9.11	0
45.39	355.3	32.08	0
45.41	353.62	30.18	0
45.76	5.54	52.44	0
45.89	20.6	52.48	0
45.97	187.94	39.68	0
46.07	9.18	48.47	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
46.65	40.92	60.23	0
47.12	351.42	56.24	0
47.23	23.84	55.46	0
47.3	22.39	55.07	0
47.43	12.15	62.14	0
47.78	35.46	61.02	0
47.86	30.9	61.18	0
48.05	21.86	71.3	0
48.2	132.51	27.55	0
48.22	281.66	14.8	0
48.32	28.41	52.01	0
48.61	62.53	36.57	0
48.66	12.42	64.55	0
48.72	22.61	63.97	0
49.01	8.86	55.34	0
49.07	35.19	57.71	0
49.38	7.07	80.06	94.77
49.77	349	30.67	0
49.92	42.6	56.21	0
50.01	27.84	85.98	0
50.17	11.48	57.99	0
50.24	215.75	86.6	0
50.35	213.16	78.4	0
50.4	213.35	81.31	0
50.58	0.7	79.87	0
50.89	20.57	56.32	0
50.94	10.44	49.08	0
50.98	10.93	53.07	0
51.04	18.82	55.43	0
51.2	345.44	51.31	0
51.23	14.98	52.84	0
51.47	19.77	46.82	0
51.74	34.41	83.22	0
52.06	344.98	82.93	0.8
52.19	342.94	82.35	1.65
52.37	155.54	78.42	0
52.5	27.95	70.64	0
52.75	61.07	51.69	0
52.89	7.12	78.32	0
52.94	8.8	57.37	0
53.01	26.92	78.04	0
53.19	358.02	43.9	0
53.2	185.04	35.5	0
53.28	49.24	37.41	0
53.32	13.8	55.38	0
53.36	35.49	62.93	0
53.86	40.7	72.52	0
54.23	16.42	50.97	0
54.49	95.41	10.94	0
54.81	354.36	86.94	0
55.01	26.63	65.59	0

Table D9 Fracture orientation and apertures for BL-0098 (Page 3 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
55.28	35.35	46.1	0
55.33	1.01	34.49	0
55.48	167.73	89.8	0
55.61	267.67	3.89	0
55.69	356.01	9.39	0
55.94	45.79	89.96	0
56.36	344.21	81.96	1.7
56.39	344.25	85.73	0
56.69	29.98	47.19	0
56.76	17.37	59.42	0
57.08	12.94	61.38	0
57.5	35.29	65.46	0
57.6	20.93	55.97	0
57.76	24.44	54.35	0
57.91	27.55	64.44	0
58.09	12.64	81.49	0
58.41	9.19	52.63	0
58.55	343.09	88.73	2.02
58.61	352.57	63.2	0
58.62	34.8	63.22	0
58.66	17.34	54.19	0
58.73	31.97	61.44	0
58.76	25.24	50.95	0
59.18	16.85	62.46	0
59.26	40.5	59.27	0
59.53	24.12	36.96	0
59.6	22.01	51.59	0
59.7	1.85	58.71	0
60.45	29.16	69.35	0
60.52	24.44	65.99	0
60.73	35.59	54.99	0
60.79	28.35	45.38	5.78
60.83	27.12	52.92	0
60.91	28.17	52.49	0
60.96	23.54	54.25	2.76
61.12	28.73	15.43	0
61.32	46.76	14.11	0
61.59	36.54	49.45	0
61.64	17.2	54.21	0
61.71	26.34	52.25	0
61.74	30.25	51.89	0
61.75	30.14	50.98	0
62	13.95	40.78	0
62.11	152.16	79.9	0
62.59	11	69.58	0
62.68	12.37	51.49	0
62.81	344.17	83.38	1.73
62.82	120.51	46.09	0
62.92	22.81	51.73	0
63.92	191.07	23.53	0
64.38	64.47	7.92	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
64.62	87.58	32.7	0
64.84	167.09	79.68	0
64.89	137.45	88.61	0
64.89	161.23	86.83	0
65.01	23.77	73.45	0
65.06	12.75	81.31	0
65.13	3.28	79.72	0
65.27	343.22	52.62	0
65.44	31.55	77.94	0
65.53	33.97	58.13	0
65.78	27.26	87.45	0
66.04	3.49	34.75	2.95
66.16	26	51.07	0
66.31	33.78	59.33	0
66.45	30.01	55.94	0
66.56	25.11	68.81	1.21
66.59	24.18	61.49	0
66.66	348.34	24.29	0
66.87	18.01	49.04	0
66.9	35.22	59.81	0
66.95	144.7	62.8	0
67.11	25.97	76.08	0
67.15	14.04	70.25	0
67.32	22.37	89.06	0
67.47	27.42	48.36	0
67.55	16.33	41.93	0
67.64	332.02	28.1	0
67.8	7.13	83.8	0
67.88	8.49	73.91	0
68.02	332.03	30.91	2.89
68.08	356.31	66.68	0
68.12	6.25	73.36	0
68.22	0.22	36	0
68.3	359.6	37.04	0
68.39	306.71	42.26	0
68.44	17.07	85.21	0
68.48	354.92	81.52	0
68.85	200.93	87.31	0
68.88	23.87	80.99	0
68.97	31.6	84.42	0
69.07	39.68	83.74	0
69.4	350.05	35.22	0
69.48	20.75	9.88	0
69.61	26.95	36.93	0
69.66	38.22	48.61	0
69.72	25.2	43.09	0
69.75	43.51	43.24	0
69.88	48.39	66.2	0
70.04	28.35	69.63	0
70.26	35.77	51.11	0
70.38	41.74	58.5	0

Table D9 Fracture orientation and apertures for BL-0098 (Page 4 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
70.51	12.44	63.95	0
70.82	18.33	46.18	0
70.97	20.09	55.05	0
71.36	27.98	71.86	0
71.63	104.26	10	0
71.78	255.49	22.7	0
71.98	26.61	88.92	0
72.16	207.11	86	1.37
72.19	212.51	88.09	0
72.36	246.32	22.19	0
72.38	10.36	67.52	0
72.82	58.25	27.82	0
72.89	26.37	37.89	0
72.94	289.35	78.51	1.36
72.98	15.55	48.11	0
73.03	6.82	67.71	0
73.16	31.65	52.81	0
73.22	111.3	24.02	0
73.43	293.98	63.78	0
73.5	25.5	82.7	0
73.58	343.13	20.9	0
73.71	32.21	59.74	0
73.74	6.19	13.59	0
73.78	24.08	31.69	0
73.85	33.65	55.42	0
74.01	47.79	34.93	2.94
74.13	18.6	56.89	0
74.2	27.13	9.34	0
74.35	8.27	21.09	0
74.44	20.83	81.34	0
74.5	232.49	3.32	0
74.5	18.31	65.3	0
74.57	240.22	36.83	0
74.69	20.9	69.31	1.21
74.8	42.27	39.91	2.91
75.22	34.02	56.07	0
75.3	31.53	63.42	0
75.37	333.96	13.68	0
75.42	6.65	48.85	0
75.46	27.23	60.69	0
75.5	34.78	44.66	2.88
75.69	201.84	82.23	0.59
75.72	190.25	24.02	0
76.02	15.18	84.37	2.78
76.55	209.86	84.28	1.29
76.7	60.95	74.15	0
76.76	42.36	72.7	0
76.79	297.61	74.8	2.01
76.93	299.36	12.59	2.76
76.93	62	53.63	1.31
77.02	18.14	49.11	2.85
77.21	36.28	59.38	0
77.26	34.56	65.75	0
77.36	25.66	40.27	0
77.55	33.07	43.9	0
77.81	20.29	48.93	0
77.86	32.46	41.11	0
77.93	49.54	65.2	0
77.95	315.53	29.21	0
78.3	81.4	54.55	3.53
79.04	21.3	87.69	0
79.25	26.04	83.35	0
79.43	11.99	15.9	0
79.43	311.27	57.39	2.06
79.48	49.28	45.85	1.42
79.51	59.22	60.05	1.73
79.65	47.16	74.39	0
79.78	46.43	54.29	4.05
79.83	37.81	32.76	0
79.91	5.92	6.19	1.44
80.03	32.11	56.05	0
80.07	34.54	16.18	0
80.24	21.02	75.73	0
80.46	33.21	70.33	0
80.52	24.52	67.87	0
80.57	40.14	1.3	0
80.79	36.26	43.91	0
81.01	39	48	0
81.12	341.49	8.81	0
81.14	46.52	40.91	0
81.25	65.79	16.36	4.36
81.38	38.99	13.02	1.47
81.48	6.73	42.1	2.9
81.58	29.74	41.77	0
81.67	40.85	47.18	2.84
81.8	26.97	51.79	0
81.93	9.02	54.34	0
82	25.94	50.61	0
82.05	29.98	54.81	0
82.11	25.1	50.31	0
82.19	27.31	73.55	0
82.3	24.11	56.56	0
82.44	53.42	25.71	2.95
82.57	13.63	89.27	3.19
82.64	10.12	89.36	2.4
82.86	239.74	88.04	1.8
82.89	45.92	52.59	0
83.08	16.06	67.12	0
83.24	26.45	81.82	0.98
83.34	77.1	41.09	0
83.71	45.87	48.24	0
83.95	21.1	57.89	2.7

Table D9 Fracture orientation and apertures for BL-0098 (Page 5 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
83.98	9.28	75.78	2.18
84.24	196.71	85.36	2
84.39	31.91	83.96	0
84.56	272.47	34.2	0
84.99	335.14	8.65	0
85.17	34.73	79.33	2.05
85.31	18.35	43.68	0
85.35	40.67	44.62	0
85.41	36.57	31.24	2.98
85.54	13	44.96	0
85.57	27.78	44.3	0
85.67	33.97	40.7	1.47
85.74	32.45	45.9	0
85.85	14.9	52.62	2.79
86.15	53.99	47.56	0
86.56	29.52	51.24	0
87.2	322.55	44	0
87.33	62.07	24.72	0
87.7	123.05	15.03	1.34
87.78	38.35	44.59	0
87.96	318.96	22.81	1.4
88.25	34.63	49.38	0
88.42	20.74	71.44	0
88.62	249.85	24.92	1.14
88.83	208.62	44.5	0
89.01	184.61	29.87	0
89.27	165.74	25.53	2.22
89.62	351.84	45.5	0
89.8	13.7	56.17	4.09
89.89	32.7	84.37	0.92
90.06	342.94	52.56	2.61
90.23	74.37	10.51	2.87
90.28	337.2	36.31	0
90.48	278.83	36.37	0
90.51	1.8	58.54	1.32
90.64	7.19	46.15	0
90.73	36.64	12.7	2.94
90.92	7.74	47.57	0.01
91.05	31.86	61.67	0
91.11	198.55	36.49	0
91.25	351.74	60.52	1.26
91.38	34.36	84.16	1.86
91.47	8.73	56.19	0
91.65	27.01	13.33	1.47
91.92	56.44	43.38	0
92.17	63.87	29.84	2.91
92.22	22.42	61.97	3.92
92.33	15.97	44.1	0
92.51	22.92	48.27	0
92.55	14.08	52.73	4.18
92.6	353.9	34.01	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
92.68	11.94	54.37	4.13
92.72	8.81	54.28	0
93.1	340.79	63.71	0
93.2	43.33	74.02	2.21
93.44	303.23	45.77	2.26
93.46	316.9	50.85	4.65
93.54	1.66	40.85	1.44
93.71	21.98	61.27	0
93.78	213.61	30.45	0
93.91	30.69	31.09	0
94.07	48.18	32.55	0
94.26	4.55	36.49	1.47
94.28	358.89	42.75	1.43
94.31	79.25	83.85	0
94.6	20.46	40.2	0
94.63	216.82	18.06	0
94.72	44.35	75.07	0
94.86	34.46	66.83	0
94.91	23.23	58.4	0
94.96	27.86	68.56	0
94.96	13.44	19.55	0
95.06	32.88	85.16	0
95.22	18.03	44.87	0
95.42	30.05	54.22	0
95.57	357.68	50.95	2.75
95.67	44.27	78.94	1.01
95.96	33.15	58.56	1.34
96.35	36.52	75.49	5.51
96.4	35.84	76.48	17.34
96.44	40.63	79.86	5.04
96.48	31.23	75.91	0
96.51	30.95	69.89	0
96.73	33.6	59.39	5.32
97.06	36.52	49.08	8.52
97.12	43.78	61.67	1.28
97.18	39.11	54.62	0
97.25	46.16	58.68	0
97.47	21.95	61.25	1.31
97.56	28.85	61.85	0
97.64	13.32	58.68	0
97.92	20.22	61.7	0
97.99	27.19	63.14	0
98.14	5.87	40.3	1.45
98.24	34	32.67	0
98.27	35.87	35.09	0
98.52	45.94	85.53	0
98.62	35.44	64.14	0
99.16	36.88	83.5	0.94
99.4	36.34	85.38	0
99.55	332.77	36.17	2.77
99.6	6.41	45.4	1.44

Table D9 Fracture orientation and apertures for BL-0098 (Page 6 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
99.65	31.16	45.38	0
99.81	22.96	74.92	0
100.17	149.92	17.08	0
100.31	76.56	38.83	0
100.48	172.23	26.09	0
100.61	16.71	68.39	0
100.77	228.16	83.95	0
101.04	11.92	47.17	0
101.13	22.45	34.38	0
101.19	28.65	70.11	2.4
101.29	263.53	6.73	0
101.48	46.74	70.37	1.16
101.69	6.57	51.87	0
101.83	207.08	40.66	0.7
101.94	359.98	80.21	0
102.08	318.97	21.21	0
102.13	343.02	32.89	1.43
102.38	21.16	46.07	0
102.48	8.31	68.32	0
102.62	40.12	71.36	0
102.67	27.63	21.65	0
102.96	349.02	22.65	0
103.12	5.72	15.96	17.73
103.25	24.1	48.21	5.72
103.28	29.04	39.77	5.9
103.34	35.96	51.33	5.61
103.99	45.72	35.4	39.69
104.16	189.51	34.45	0
104.29	358.37	65.6	0
104.49	20.42	47.03	0
104.62	23.38	68.06	0
104.7	20.59	65.07	0
104.78	36.5	82.97	0
104.95	12.05	85.37	0
105.02	12.15	79.92	0
105.05	10.35	76.01	2.18
105.23	12.05	37.13	0
105.26	36.01	77.54	0
105.28	348.62	36.77	2.07
105.39	254.36	8.95	0
105.44	12.09	44.82	0
105.47	26.66	13.84	0
105.67	29.45	56.2	0
105.69	291.29	21.04	0
105.91	20.94	51.07	1.41
105.94	38.41	54.81	0
106.11	49.88	63.21	0
106.33	20.82	40.7	0
106.34	28.13	56.53	1.37
106.38	39.49	80.23	0
106.45	23.46	74.34	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
106.47	22.85	44.55	0
106.56	18.88	41.66	0
106.66	353.81	30.95	0
106.71	13.09	72.84	0
106.76	275.83	43.52	0
106.9	39.53	16.56	0
106.95	42.42	39.93	0
107.03	22.44	54.08	0
107.09	24.83	56.74	0
107.22	22.15	69.99	0
107.39	57.71	43.16	0
107.45	13.04	64.91	0
107.49	20.7	49.02	0
107.59	15.84	47.91	0
107.7	30.68	67.53	0
107.76	48.22	74.66	0
107.95	35.97	81.46	0
108	29.97	83.03	0
108.03	36.82	5.72	0
108.09	32.11	63.62	0
108.14	118.79	7.49	0
108.23	31.74	69.63	0
108.25	38	69.01	0
108.32	22.57	50.74	0
108.35	25.16	53.49	0
108.72	210.79	27.7	0
108.88	3.75	75.6	0
109.03	28.83	55.37	0
109.21	25	45.75	0
109.37	13.66	54.56	0
109.48	22.55	59.37	0
109.5	18.97	57.84	0
109.53	17.34	56.92	0
109.79	21.02	43.76	0
110.44	16.85	19.76	0
111.16	4.88	15.08	0
111.2	25.16	47.28	0
111.42	35.65	58.48	0
111.53	1.46	51.33	0
111.63	34.64	60.95	0
111.74	35.77	65.9	0
111.99	31.59	58	0
112.09	37.1	74.46	0
112.21	39.11	65.95	0
112.33	46.94	78.13	0
112.7	32.56	40.59	1.47
112.79	38.54	62.1	0
112.88	17.47	7.09	0
112.98	96.85	5.23	0
113.1	49.18	9.78	0
113.78	10.61	71.54	0

Table D9 Fracture orientation and apertures for BL-0098 (Page 7 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
114.05	142.2	6.58	0
114.12	337.14	2.74	0
114.77	28.28	61.84	0
115.34	57.89	16.54	0
115.51	55.6	69.63	0
115.98	71.95	7.65	0
116.17	26.23	33.56	0
116.51	260.52	27.39	0
116.58	36.34	51.64	0
116.67	27.87	64.6	0
116.8	35.86	85.59	0
117.27	272.18	17.8	0
117.36	39.36	60.26	0
117.4	24.81	65.32	0
117.51	20.63	60.83	0
117.64	30.25	56.07	2.74
117.99	30.39	47.97	0
118.82	104.26	47.96	1.12
118.97	29.26	56.02	0
119.06	19.91	60.93	0
119.69	19.68	68.89	0
119.89	27.5	84.88	0
119.94	39.04	82.32	0
120.48	43.58	44.14	0
120.82	75.03	42.73	0
120.9	37.04	65.62	0
121.03	21.1	63.96	0
122.35	62.78	71.56	0
122.75	33.13	53.35	0
122.93	76.38	71.91	0
123.01	104.88	53.31	0
123.18	30.88	52.18	0
123.24	28.43	69.88	0
123.52	44.42	61.97	0
123.62	21.6	19.79	0
124.01	33.77	67.43	0
124.12	34.14	65.81	0
124.4	33.68	54.02	0
124.56	19.26	56.43	0
124.57	105.41	68.39	0
124.62	35.64	62.9	0
124.9	19.85	23.96	0
126.4	72.57	76.78	0.9
126.51	271.45	43.92	0
126.82	43.46	82.13	0.96
127.35	39.55	60.09	0
127.92	47.09	67.52	0
128.41	20.63	49.83	0
128.85	24.7	83.33	0
130.01	26.66	69.65	0
130.16	27.72	55.27	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
130.35	67.65	68.35	0
131.05	211.18	35.68	0
131.3	34.35	64.57	0
131.63	204.83	21.94	0
132.21	81.65	36.4	0
132.27	84.5	53.75	0
133.01	38.09	64.47	1.27
133.02	42.49	66.17	0
133.14	31.42	57.04	0
133.26	350.42	26.01	0
134.38	36.06	49.09	0
134.7	43.44	54.07	0
134.78	38.69	64.22	0
134.87	53.12	66.67	0
135.27	24.98	55.33	0
135.68	239.49	34.85	0
136.41	11.68	57.16	0
136.85	10.99	88.45	0
137.91	12.81	64.42	0
138.26	216.03	88.35	0
138.49	42.56	89.4	0
139.29	19.16	65.62	0
139.7	9.63	89.44	0
139.93	26.47	45.55	0
139.99	22.46	48.2	0
140.31	20.07	53.6	0
140.51	44.76	59.99	0
140.83	1.22	38.88	0
140.88	8.65	65.58	0
141.06	20.8	64.27	0
141.31	36.78	50.31	0
141.51	24.83	73.73	0
142.16	39.95	73.67	0
142.45	20.94	58.73	0
142.69	43.53	54.48	0
142.85	40.96	71.95	0
143.79	24.4	43.81	0
148.4	105.41	11.22	0
149.32	39.6	81.8	0
149.42	56.59	54.54	0
149.74	33.93	53.83	0
149.76	30.41	48.4	0
150.66	22.87	42.35	0
150.99	28.43	50.54	9.95
151.07	29.31	68.33	0
151.12	36.58	31.95	0
151.12	94.79	77.32	0
151.34	27.07	51.49	0
151.38	38.51	75.69	0
151.77	21.93	58.89	0
152.41	32.85	48.52	0

Table D9 Fracture orientation and apertures for BL-0098 (Page 8 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
153.09	237.38	2.51	0
153.23	213.56	26.44	0
153.6	216.2	19.63	0
154.06	349.65	85.17	0
156.71	45.7	81.24	0
156.73	47.39	80.06	0
158.5	50.03	85.98	0
159.12	205.02	27.43	0
160.33	33.01	66.07	0
160.86	36.15	66.93	0
160.96	33.38	76.97	0
161.51	35.2	45.95	1.44
161.96	25.26	19.46	0
163	37.76	74.56	0
164.73	25.05	78.46	0
165.71	30.55	60.02	0
166.96	155.06	12.04	0
169.15	156.61	33.22	0
169.34	204.41	28.63	0
170.13	60.2	62.53	0
170.86	112.8	32.03	0
171.22	63.46	87.15	0
171.59	115.09	58.86	0
171.9	58.3	77.05	0
172.95	217.33	7.79	0
173.49	74.46	26.71	0
173.61	55.57	88.63	0
174.6	59.48	58.47	0
175.66	29.49	58.34	0
176.14	55.94	74.7	0
181.98	33.78	42.88	0
182.19	33.36	56.52	0
182.23	29.81	62.91	0
182.37	42.28	61.47	0
182.57	29.55	40.66	0
183.5	15.24	62.6	0
183.58	328.35	44.46	0
183.79	31.5	61.68	0
184.18	76.23	49.77	0
184.35	9.15	43.91	0
185.21	9.58	49.34	0
185.24	7.68	51.57	0
185.48	19.58	59.48	0
186.37	305.69	43.58	0
186.45	299.99	35.81	0
187.01	352.05	53.79	0
187.84	5.26	37.82	1.47
189.29	32.51	46.84	0
189.55	41.47	69.58	0
189.68	30.18	64.35	0
189.69	298.53	81.2	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
190.23	26.07	40.12	0
190.31	35.31	45.55	0
191.22	351.71	89.97	0
191.94	175.28	17.62	0
192.32	51.72	61.71	2.58
192.36	33.11	57.29	0
192.62	31.8	52.27	0
192.73	38.98	78.84	0
192.96	21.88	53.14	0
194.4	347.07	50.79	0
194.68	118.92	65.3	1.11
195.38	2.22	64.64	0
195.83	32.2	75.04	0
195.85	29.4	74.49	0
196.21	35.84	62.48	0
196.85	27.98	47.68	0
196.9	34.37	64.54	0
197.61	19.86	57.28	0
197.67	27.79	80.69	0
198.05	30.53	48.38	0.01
198.35	14.33	46.38	0
198.46	31.14	58.21	0
198.49	37.61	76.81	0
198.55	31.52	66.02	0
198.89	20.71	89.61	1.73
199.28	194.96	86.64	0
199.34	196.03	89.84	0
199.74	16.94	88.28	0
200.01	11.19	65.44	0
200.45	30.63	64.24	0
201.69	40.64	62.03	0
201.91	15.36	74.88	0
201.97	40.19	48.39	0
202.01	25.6	45.98	0
202.73	42.86	89.24	0
202.79	30.75	74.33	0
202.86	36.1	73.9	0
202.9	68.74	19.12	0
203.1	23.25	24.53	0
203.92	45.94	57	0
204.09	28.42	73.74	0
204.84	202.17	15.57	0
204.96	13.5	22.2	0
205.15	211.76	32.04	0
205.17	39.65	76.19	0
205.88	24.22	60.33	0
206.23	36.22	53.98	1.4
206.31	32.97	79.8	0
206.47	32.12	56.33	0
206.63	44.59	64.97	0
207.41	24.13	80.1	0

Table D9 Fracture orientation and apertures for BL-0098 (Page 9 of 9).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
207.49	23.16	74.01	0
208.07	31.96	86.63	0
208.24	33.06	53.96	0
208.78	43.13	67.84	0
209	33.99	78.34	0
209.36	334.37	17.25	0
209.75	37.51	51.2	0
210	43.67	77.07	0
212.91	36.71	63.23	0
213.04	121.86	28.92	0
213.39	26.28	49.32	0
213.63	28.9	65.35	0
213.85	23.19	44.98	0
214.03	41.25	73.22	0
214.24	31.76	72.92	0
214.34	25.33	61.03	0
214.82	320.07	30.55	0
215.98	74.03	77.32	0
216.26	26.03	73.02	0
216.89	324.72	5.6	0
217.18	58.32	60.23	0
217.47	53.75	29.03	0
218.06	252.69	30.79	0
218.55	31.16	65.14	0
218.87	207.2	85.54	0
218.88	53.14	56.66	0
218.99	50.44	16.52	0
219.13	42.42	63.85	0
220.95	63.99	12.22	0
221.01	30.01	76.74	0
221.35	352	77.3	0
221.55	18.76	12.17	0
221.69	51.54	63.7	0
222	48.38	49.43	0
222.07	349.27	53.45	2.66
222.09	6.74	60.33	0
222.31	34.88	71.18	0
222.36	42.3	78.65	0
222.67	290.38	12.99	0
223.18	17.01	79.44	0
223.53	5.71	59.96	0
223.89	18.36	49.12	0
224.84	2.79	39.78	0
225.06	312.43	53.04	0
225.83	291.74	41.39	0
225.98	35.51	35.62	0
226.75	31.22	63.42	0
227.33	340.65	45.96	0
227.41	14.4	72.29	0
227.91	300.83	15.05	0
227.95	2.22	70.86	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
227.97	349.43	72.86	0
228.34	4.78	38.19	0
228.45	33.77	62.26	0
228.8	19.37	50.82	0
228.94	28.52	70.64	0
229.12	13.04	71.32	0
229.14	18.64	71.88	0
229.32	26.33	77.91	0
229.56	316.17	38.49	0
229.91	24.44	69.6	0
230.01	332.5	80.16	0
230.43	311.87	28.36	0
230.53	33.58	80.63	0
230.56	104.1	76.18	0
230.97	354.18	63.89	0
231.24	318.48	35.15	0
231.84	343.35	89.24	0
233.39	227.85	88.02	0
233.51	225.55	83.68	0
234.06	307.32	57.2	0
236.33	244.44	39.24	0
239.56	4.24	37.23	1.48
241.37	166.02	80.37	0
241.95	176.1	69.27	0
242.77	28.12	66.34	0
243.6	16.91	68.14	0
244.73	25.07	57.5	0
244.84	326.35	40.67	0
244.91	321.67	52.67	0
245.9	14.54	83.22	0
246.03	10.65	86.42	0
246.29	265.9	35.73	0
246.51	85.57	62.96	0
249.5	107.19	78.15	0
253.24	318.26	51.56	0
254.07	321.4	69.61	0
254.96	174.19	86.39	0
257.37	11.3	75.33	0
257.93	355.67	60.41	0
258.49	163.55	82.56	0
263.24	43.56	19.69	0
266.89	114.15	69.47	0
267.12	12.8	56.87	0
268.11	184.5	78.51	0
268.3	171.86	58.95	0
268.77	175.45	68.23	0
271.18	150.43	86.37	0
272.54	13.83	72.48	0
End			

Table D10 Fracture orientation and apertures for BL-0104 (Page 1 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
7.3	356.38	48.99	0
7.36	12.86	56.31	0
7.56	10.71	66.55	0
7.79	44.45	32.37	0
7.84	352.13	36.71	0
8.07	59.62	58.58	0
8.51	47.54	61.12	0
8.67	32.79	45.37	0
8.88	27.91	51.14	0
9.36	21.01	35.33	7.27
9.48	38.08	53.48	0
9.49	334.67	19.7	0
10.09	33.75	32.83	1.46
10.95	2.51	49.99	0
11.06	22.33	42.93	1.39
11.24	29.54	59.96	0
11.24	329.03	22.74	0
12.21	49.25	62.96	0
12.38	344.83	55.58	0
12.65	8.37	39.29	0
13	300.4	29.04	0
13.69	324.18	23.34	4.15
14.5	42.15	53.52	0
14.84	49.19	73.78	0
14.85	52.22	72.76	0
14.91	49.13	48.4	0
15.14	264.59	17.23	0
15.53	42.94	84.35	0
15.61	19.65	49.99	0
15.67	35.59	43.15	0
15.7	2.33	27.03	0
16.79	348.15	21.45	2.94
16.95	38.03	37.85	0
17.33	50.56	76.98	0
17.99	7.38	34.43	0
18.82	44.07	59.94	0
19.07	42.28	65.98	0
19.63	332.77	23.81	2.87
21.07	327.97	89.78	0
21.55	34.32	34.85	0
21.64	33.39	56.43	0
21.78	49.93	74.87	2.78
22.31	55.07	59.73	0
25.56	110.49	56.1	1.74
25.95	85.65	48.53	1.17
26.48	62.66	78.11	0
26.94	42.03	52.4	0
27.6	213.65	88.78	0
28.9	57.46	37.74	0
29.09	37.06	58.51	0
29.3	60.66	44.51	0
29.52	54.31	61.77	0
29.74	44.02	55.57	0
29.84	102.42	77.46	0.83
29.86	17.32	64.53	0
30	40.28	62.03	0
30.16	64.67	48.31	0
30.39	32.73	69.54	0
30.45	41.86	72.34	0
30.57	24.99	64.75	0
30.69	15.03	52.16	0
30.97	29.18	60.67	0
31.06	34.04	68.83	0
31.38	55.29	86.26	0
31.81	29.61	65.06	0
32.23	281.92	17.7	2.74
32.72	31.95	62.24	0
32.8	45.92	71.2	0
32.9	168.16	82.58	0
33.11	27.96	81.45	0
33.16	22.72	87	0
33.36	65.15	62.91	0
33.4	53.12	53.44	0
33.82	49.85	85.7	0
33.9	61.65	76.53	0
34.13	57.35	56.31	0
35.08	181.03	85.49	0
35.53	221	89.43	1.87
35.65	50.96	54.09	0
35.75	67.38	41.62	0
35.87	134.98	43.27	2.9
36.25	216.04	87.82	1.19
36.27	12.8	42.99	0
36.43	25.28	50.82	0
37.03	275.83	18.41	0
37.21	284.02	29.1	0
37.58	28.14	52.37	0
37.7	36.88	48.5	0
37.87	29.52	55.1	0
38.05	46.84	63.66	0
38.22	45.87	49.44	0
38.4	25.96	52.18	2.71
38.62	29.17	47.21	0
38.93	7.93	43.43	0
39.2	20.85	8.97	0
40.06	31.49	59.07	2.55
40.3	31.6	36.27	0
40.55	82.13	47.18	0
40.72	44.99	60.86	0
40.97	52.86	23.55	0
41.14	88.26	47.62	0
41.29	0.99	73.91	0

Table D10 Fracture orientation and apertures for BL-0104 (Page 2 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
41.56	175.9	86.86	1.13
42.13	8.75	55.77	0
42.68	14.5	59.53	0
42.76	26.97	12.04	0
42.93	11.26	42.91	0
43.15	18.48	48.4	0
43.39	314.27	35.96	0
43.57	354.43	34.73	0
43.76	348.69	50.89	0
44.18	55.29	57.81	0
44.75	27.09	61.05	0
44.87	52.73	52.18	0
45.4	285.72	46.14	0
45.52	25.6	43.06	0
45.69	62.15	57.38	0
45.77	59.67	56.54	0
46.05	62.95	70.69	0
46.19	317.89	38.57	0
46.33	126.18	43.94	0
46.47	350.7	41.62	0
46.73	335.86	26.55	0
47.06	38.79	46.45	0
47.18	146.36	28.33	0
47.83	21.06	45.6	0
48.68	173.6	82.53	0
48.98	176.64	80.86	0
49.45	43.83	54.54	0
50.6	306.97	20.81	0
50.66	40.29	42.99	0
51.33	29.08	67.1	0
53.09	50.38	53.99	0
53.72	86.97	61.73	2.82
54.31	76.75	26.67	2.79
55.57	13.31	58.68	0
55.68	47.57	69.19	0
55.91	336.92	35.29	0
56.7	59.11	38.92	0
57.25	38.99	60.34	0
57.42	57.38	49.81	0
57.55	17.29	34.93	0
57.62	23.54	86.73	1.57
57.74	246.98	42.39	1.85
58.46	337.4	4.12	0
58.72	349.6	84.55	2.3
58.87	52.86	50.02	0
59.02	37.53	58.97	0
61.09	349.79	73.16	0
61.32	60.79	88.37	0
61.57	332.8	70.4	0
61.65	138.51	43	0
61.82	353.03	70.33	2.24
61.87	224.23	51.87	1.14
62.33	297.12	38.51	0
62.64	278.21	37.49	0
62.74	284.48	40.2	0
63.39	158.73	81.25	0
64.2	224.96	35.44	0
64.22	209.64	28.94	0
65.1	57.49	55.52	2.46
65.18	237.75	44.12	1.67
65.21	246.15	45.75	0
65.45	39.94	6.45	0
65.79	182.34	18.76	0
67.43	18.29	35.9	0
67.6	30.29	13.68	0
68.34	6.71	60.72	0
68.6	107.34	7.8	2.82
69.25	323.35	8.43	0
69.3	32.88	71.04	0
69.37	56.3	73.37	0
70.09	4.57	33.22	0
70.24	15.04	65	13.5
70.26	264.59	14.71	6.78
70.31	20.27	62.55	1.26
70.42	14.75	48.52	0
70.66	36.59	0.89	31.35
70.8	4.48	50.69	106.73
70.95	307.7	2.92	2.85
71.03	36.33	60.14	2.51
71.44	17.6	43.88	0
71.52	29.92	38.82	0
71.53	19.4	31.12	0
72.62	46.59	77	0
72.86	34.17	63.38	0
72.92	34.35	62.3	0
73.07	3.95	77.45	0
73.17	170.27	20.78	0
73.53	45.51	74.22	0
73.53	24.2	57.95	0
73.73	310.01	38.2	0
73.85	8.81	51.97	0
73.92	134.41	37.42	0
74.31	33.13	50.31	2.74
74.62	35.22	52.67	2.7
74.76	18.59	40.6	1.46
74.82	2.4	43	1.44
74.97	58.02	59.27	0
75.06	21.52	66.6	2.39
75.11	33.89	85.38	0
75.28	10.07	43.59	5.77
75.54	50.73	76.54	0
75.64	195.91	34.31	0

Table D10 Fracture orientation and apertures for BL-0104 (Page 3 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
75.82	1.68	39.14	0.01
75.84	6.07	42.77	0
75.86	2.01	45.72	1.42
76.42	40.08	84.2	0
76.75	8.67	47.11	0
76.84	19.82	38.44	2.94
77.04	33.49	55.61	0
77.26	28.03	58.94	1.29
77.3	30.02	61.91	0
77.42	38.54	59.67	1.26
77.49	21.53	61.91	0
77.64	27.93	63.01	0
77.65	35.25	76.93	0
77.88	29.97	67.04	1.17
78	62.74	62.96	2.18
78.73	168.92	37.52	0
79.59	281.09	5.38	0
79.84	55.07	81.47	0
79.92	30.62	54.55	0
80.02	350.9	34.4	0
80.06	18.42	61.06	0
81.39	250.34	27.96	2.35
82.13	47.74	41.31	0
83.6	37.81	54.19	0
83.67	351.12	19.11	0
84.97	49.69	67.25	0
85.09	44.83	56.44	0
85.99	37.06	61.03	0
86.24	22.4	43.32	0
86.97	15.69	15.81	0
89.08	52.34	69.64	0
89.54	75.49	59.46	0
90.53	279.28	41.76	0
90.78	350.99	41.75	0
90.85	354.07	50.69	0
91.14	47.68	64.87	0
91.46	54.15	68.34	0
91.77	335.2	35.62	0
91.98	37.85	73.99	0
92.63	157.85	40.33	0
93.14	358.94	86.28	0
93.87	169.22	36.89	0
93.96	163.35	39.28	0
94.75	50.36	13.49	0
94.83	359.47	80.58	0
95.2	38	34.16	0
96.5	37.26	56.61	0
97.35	22.03	52.09	0
97.39	120.18	45.38	0
98.36	52.58	73.99	0
99.08	36.62	75.1	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
99.73	51.11	83.82	0
100.38	162.32	58.41	0
101.57	54.92	46.55	4.04
102.66	37.73	40.41	0
103.59	149.38	14.38	2.62
103.69	49.48	36.29	0
110.19	2.51	86.03	0.82
111.87	184.61	83.51	0
112.12	122.34	60.39	0
113.69	45.65	69	0
113.75	79.38	66.24	0
115.4	40.57	53.28	0
116.83	110.28	41.37	0
116.93	36.57	67	0
117.91	2.2	85.79	0
117.99	33.37	57.75	0
119.11	42.62	48.41	0
122.32	36.29	36.53	0
122.43	21.47	35.66	0
122.53	43.82	38.89	0
123.01	356.76	87.19	0
124.02	55.35	70.82	0
124.78	44.7	55.36	0
124.98	53.72	48.38	1.35
125.16	355.84	84.15	0
126.78	16.37	24.06	1000.5
129.67	163.6	89.32	0
133.11	32.22	25.24	0
135.19	44.16	67.16	0
135.53	49.65	66.26	0
136.33	32.72	26.91	0
136.49	40.93	44.17	1.42
139.4	63.46	62.19	0
141.12	30.69	29.28	0
141.62	356.26	52.96	0
141.63	183.63	20.33	0
144.51	51.61	43.98	0
149.2	50.82	49.84	0
150.06	81.19	13.61	2.88
150.12	70.4	39.27	0
156.38	47.34	44.6	0
160.43	47.97	30.04	0
167.1	22.77	43.79	1.44
167.13	25.25	39.88	2.93
167.25	34.5	48.26	0
168.42	23.77	39.2	0
169.08	25.82	41.42	0
171.47	67.29	16.56	0
175.4	15.74	65.34	0
176.47	14.76	67.69	2.4
177.99	279.07	32.01	0

Table D10 Fracture orientation and apertures for BL-0104 (Page 4 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
189.31	113.18	30.08	0
195.28	32.34	54.39	0
201.26	15.52	24.53	1366.5
208.1	39.79	52.16	0
208.13	55.14	46.1	0
208.66	39.38	58.69	0
208.7	31.39	81.08	0
208.76	35.88	67.48	0
209.12	174.57	81.01	0
221.59	31.21	52.69	0
221.66	39	88.75	0
221.76	31.2	59.63	3.93
221.9	24.91	52.12	0
226.99	25.28	55.83	0
232.15	30.57	85.11	0
234.1	316.13	73.39	0
239.25	10.62	75.89	0
239.38	16.7	84.9	0
240.05	350.6	69.47	0
242.69	22.58	66.39	0
258.52	228.34	82.73	0
258.72	68.58	89.33	0
259.85	358.68	84.49	0
267.21	354.6	83.89	0
280.73	10.39	51.31	2.81
280.78	345.41	67.79	0
281.62	303.27	26.09	1.36
281.72	342.37	27.27	0
282.22	15.86	45.95	0
282.4	17.1	48	0
282.78	7.56	40.05	0
290.32	81.74	12.2	0
291.16	168.1	12.17	0
295.48	352.67	79.18	0
298.87	4.98	70.96	0
End			

Table D11 Fracture orientation and apertures for BL-0111 (Page 1 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
5.58	290.87	41.84	0
5.64	277.43	34.08	0
5.94	324.76	58.68	0
6.14	329.28	56.29	1.55
6.18	290.49	25.37	0
6.33	227.81	19.89	3.19
6.35	240.1	23.97	3.08
6.42	249.08	39.15	2.42
6.62	5.9	88.09	4.07
6.69	2.16	80.57	1.23
6.87	348.6	72.26	1.35
6.93	356.53	62.63	3.23
6.99	341.01	59.2	1.58
7.01	335.73	64.23	0
7.1	354.23	56.72	0
7.13	358.7	59.87	0
7.17	1.93	71.46	0
7.2	341.36	60.32	1.58
7.34	355.17	74.93	0
7.45	1.21	11.44	0
7.56	257.01	51.55	0
7.59	348.6	37.39	3.78
7.69	359.74	70.29	4.55
7.72	329.15	58.32	0
7.82	17.37	62.58	0
7.86	347.31	46.56	0
7.94	8.98	77.71	1.36
8.02	359.09	49.05	0
8.05	3.09	57.18	0
8.09	12.49	70.25	0
8.21	331.19	51.81	0
8.24	348.75	40.64	0
8.34	328.16	50.93	3.3
8.47	340.75	56.99	0
8.58	9.85	45.52	0
8.6	295.24	5.1	0
8.72	116.77	4.77	1.87
8.87	354.59	61.43	1.65
9.12	300.32	50.56	0
9.23	354.19	52.04	0
9.36	59.49	42.32	3.74
9.48	344.28	66.47	0
9.8	310.17	56.86	0
9.85	285.6	44.55	0
10.12	100.26	43.6	0
10.15	93.15	50.85	0
10.44	165.54	43.08	2.07
10.45	340.7	73.24	0
11.02	350.9	53.46	8.77
11.17	49.52	81.97	0
11.19	74.55	86.15	0.8

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
11.19	316.36	52.32	0
11.24	67.61	83.74	1.94
11.41	138.25	28.16	14.34
11.43	336.17	55.64	0
11.48	336.54	47.08	0
11.58	348.91	83.05	3.22
11.69	339.56	85.11	7.29
11.99	6.4	74.19	0
12	105.6	29.19	0
12.16	9.16	89.35	0
12.21	159.98	17.45	0
12.29	15.15	11.04	0
13.17	351.7	49.89	1.81
13.55	346.58	53.56	1.74
13.6	328.05	46.82	0
13.7	329.69	59.98	0
13.8	297.19	20.84	1.82
13.87	298.21	47.29	0
14.08	88.47	12.22	0
14.11	333.46	60.19	1.54
14.21	336.35	51.46	0
14.22	81.03	64.08	0
14.27	330.16	57.13	0
14.34	3.77	41.06	0
14.42	0.32	76.91	2.69
14.5	325.12	59.33	2.97
14.59	298.84	30.81	0
14.67	118.57	15.83	0
14.79	359.25	89.04	0
14.93	324.27	37.19	1.79
14.99	335.94	50.13	3.44
15.18	15.96	62.73	0
15.26	353.32	67.78	0
15.36	357.38	86.35	28.25
15.81	10.11	74.56	0
15.98	4.71	76.51	4.12
16.04	359.77	59.95	0
16.3	45.61	62.53	0
16.4	109.68	70.96	0.8
16.75	284.44	56.44	0
16.76	212.06	47.33	0
17.12	352.8	55.5	0
17.29	2.92	49.82	0
17.44	9.26	83.55	0
17.61	5.89	50.73	0
17.69	4.14	64.64	0
17.95	332.2	50.06	0
18.17	6.55	41.08	0
18.22	320.3	39.48	0
18.27	316.08	34.72	0
18.37	319.13	28.76	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 2 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
18.66	329.39	47.41	0
18.98	342.45	54.07	6.83
19.03	349.03	51.67	0
19.08	347.3	54.18	0
19.2	263.79	26.14	0
19.4	116.51	41.45	0
19.43	311.98	60.12	1.33
19.5	314	55.4	0
19.9	36.83	49.41	0
20.14	70.26	46.61	0
20.25	347.27	53.99	0
20.29	3.48	55.28	0
20.69	18.96	69.21	0
21.03	276.6	13.53	0
21.51	152.89	59.03	1.14
21.57	115.91	11.22	0
21.59	140.19	22.22	0
21.9	204.96	9.7	0
22.17	335.05	38.59	0
22.2	286.33	12.08	0
22.24	274.12	26.33	3.29
22.35	194.95	39.53	0
22.51	330.23	59.02	0
22.7	347.91	54.88	0
22.84	334.36	37.03	0
23.1	332.2	51.27	0
23.14	323.16	77.1	0
23.19	315.7	46.37	0
23.31	296.72	42.7	0
23.35	305.54	52.48	0
23.43	321.63	55.92	3.03
23.51	336.83	52.42	0
23.54	323.85	49.18	3.31
24.18	348.02	70.86	0
24.45	340.49	70.54	0
24.72	329.16	63.17	0
24.97	305.36	50.63	0
25.54	351.22	47.07	0
25.62	305.32	38.68	0
26.19	127.96	40.2	4.29
26.21	329.32	81.3	0
26.31	147.17	63.37	0
26.73	320.84	32.12	0
27.14	331.52	42.2	0
27.27	335.47	39.73	3.68
27.38	326.32	80.35	0
27.55	11.46	39.84	0
27.63	104.68	46.2	0
27.71	356.94	46.84	0
27.86	326.25	27.47	0
27.9	339.35	23.33	3.89

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
28.01	334.85	43.65	3.61
28.07	343.56	43.98	0
28.1	357.05	47.49	0
28.19	328.66	54.72	0
28.28	338.22	29.12	0
28.34	8.43	62.94	0
28.41	295.8	48.76	0
28.45	307.93	47.74	0
28.49	313.95	39.95	0
28.57	6.06	81.24	0
28.58	325.94	22.21	0
28.69	309	51.32	0
29.11	343	38.59	0
29.19	322.35	41.27	0
29.21	319.67	46.36	0
29.37	330.8	52.17	0
29.42	336.85	41.72	5.48
29.59	285.6	38.26	0
29.65	319.96	51.21	0
29.7	309.57	50.6	0
29.84	326.11	60.41	0
29.89	332.41	53.06	0
30.15	299.15	41.84	0
30.27	298.44	31.22	0
30.75	348.01	62.06	4.8
30.8	346.71	68.53	4.37
30.86	339.54	61.95	1.54
31.11	329.21	33.32	0
31.3	316.7	12.56	0
31.49	189.95	36.98	0
32.01	293.42	48.6	0
32.05	289.44	52.18	0
32.36	304.68	30.78	0
32.64	132.67	15.12	0
33.1	302.94	22.67	0
33.12	275.52	10.53	0
34.16	354.31	51.4	0
34.53	299	55.99	0
34.64	314.51	67.79	0
34.71	95.15	57.81	0
35.05	118.18	11.71	0
35.11	14.28	49.62	0
35.38	321	59.08	0
35.42	336.28	54.04	4.98
35.53	335.91	52.38	0
35.79	139.96	35.28	0
36.42	119.11	75.52	0
36.58	0.72	56.93	0
36.64	329.29	29.77	0
36.73	182.73	35.63	0
36.95	336.29	33.91	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 3 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
37.09	93.32	11.25	0
37.23	337.11	66.97	0
37.24	89.58	65.56	0
37.4	342.33	62.89	0
37.48	317.45	60.73	0
37.69	352.33	51.82	0
37.74	359.32	52.66	0
37.89	285.4	44.84	0
38.13	13.18	71.89	0
38.17	16.24	76.61	0
38.22	303.87	46.69	0
38.44	315.61	44.66	3.29
38.61	173.27	40.3	2.23
38.63	175.65	89.6	1.73
38.67	158.76	22.02	0
38.86	293.59	12.43	0
38.92	72.53	22.8	1.93
39.02	8.49	42.96	0
39.12	47.78	65.36	3.19
39.19	288.6	59.05	2.04
39.27	333.9	17.53	1.94
39.33	169.78	19.72	3.25
39.48	116.43	18.02	19.94
40.07	102.84	18.23	18.54
40.88	16.8	15.62	0
41.05	328.11	40.88	3.6
41.09	310.07	45.33	0
41.15	351.94	43.17	0
41.22	319.89	47.96	0
41.33	54.09	69.12	0
41.33	347.89	59.27	0
41.34	258.91	27.69	0
41.42	352.92	35.39	0
41.48	14	50.97	0
41.54	31.09	54.59	1.82
42.1	300.88	14.92	0
42.26	323.36	52.58	0
42.31	352.66	42.96	0
42.41	322.5	32.6	1.83
42.45	307.51	31.83	3.52
42.5	324.01	43.14	0
42.62	313.14	29.44	0
42.68	299.32	31.7	0
42.71	305.5	31.39	0
42.82	318.06	49.01	0
42.87	317.75	51.05	0
42.9	323.28	57.13	0
43	339.12	74.34	0
43.05	353.75	75.99	0
43.11	355.1	55.58	3.48
43.25	31.99	80.61	2.58

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
43.6	300.06	54.29	1.31
44.07	170.16	39.49	162.17
44.37	320.78	39.44	1.75
44.72	345.42	53.17	46.74
45.12	328.55	36.93	3.65
45.47	306.95	74.73	0
45.64	329.4	79.39	0
45.87	310.09	33.99	0
45.93	116.56	36.85	0
45.97	134.84	28.01	0
46	144.07	26.98	0
46.18	15.35	56.34	0
46.25	352.81	56.71	0
46.5	155.91	19.89	39.81
46.84	294.5	39.1	0
46.86	304.16	29.07	0
46.9	290.6	36.64	0
46.96	347.73	37.3	1.91
47.11	267.73	44.01	0
47.27	348.27	57.53	0
47.32	282.37	52.57	1.16
47.47	295.65	28.73	0
47.62	306.33	40.93	0
47.8	340.43	37.86	0
48.16	337.06	89.37	0
48.28	301.12	52.46	0
48.43	39.89	81.87	0
48.58	328.9	52.89	0
48.65	359.29	62.37	0
48.73	12.66	70.02	0
49.32	317.28	58.67	0
49.42	46.64	80.03	0
49.62	287.46	50.25	0
49.67	319.94	43.74	0
49.81	304.94	33.97	0
49.94	322.27	37.65	0
50.26	317.07	46.97	6.69
50.36	4.13	65.25	0
50.46	317.68	29.47	0
50.52	330.85	42.76	0
50.76	270.91	31.68	0
50.91	356.91	55.69	0
51.1	316.72	43.85	0
51.22	322.4	33.41	0
51.41	339.41	28.89	0
51.59	257.12	34.54	0
51.69	241.85	46.19	0
51.74	248.41	43.62	0
51.78	286.06	48.39	0
51.88	283.52	36.88	1.53
51.92	290.99	30.65	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 4 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
51.96	316.7	37.29	0
52	353.33	61.86	0
52.46	198.57	36.75	0
52.53	182.74	28.95	0
52.91	261.6	48.56	0
53.33	289.12	28.57	0
53.86	342.26	39.96	0
54.18	15.05	41.64	0
54.3	33.9	51.82	0
54.45	33.89	66.4	0
54.51	39.73	69.3	0
54.58	337.71	14.29	0
54.66	308.77	26.64	0
54.84	12.03	61.47	0
54.91	355	50.84	0
54.94	1.66	51.17	0
55.02	2.78	61.09	0
55.03	314.84	53.56	0
55.11	295.22	37.44	0
55.2	302.21	46.41	0
55.29	273	27.84	1.62
55.3	6.12	61.24	1.7
55.41	352.34	44.41	0
55.5	8.52	57.14	0
55.57	0.76	58.46	0
55.67	13.8	68.14	0
55.84	323.49	44.44	0
55.95	320.41	52.67	0
56.22	77.15	70.93	0
56.46	28.41	84.95	0
56.6	283.39	56.43	0
56.6	67.3	76.55	2.38
56.66	282.93	58.03	0
56.77	2.45	51.19	10.98
56.84	34.25	79.85	0
56.9	8.47	77.3	0
56.94	2.66	78.29	0
57.04	267.91	42.38	0
57.12	308.89	44.64	3.19
57.16	296.78	48.6	0
57.2	320.29	52.22	0
57.27	32.31	18.45	0
57.3	264.68	11.27	0
57.43	21	37.27	7.88
57.68	296.51	44.92	0
57.71	222.77	40.92	0
57.78	209.42	39.3	0
57.92	15.04	52.88	0
57.95	21.44	68.35	0
58.46	336.95	38.66	0
58.51	358.85	42.43	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
58.6	343.2	41.39	0
58.7	320.4	69.32	0
58.72	322.24	65.99	0
58.85	339.79	75.56	0
58.96	9.92	74.97	0
59.01	19.96	81.67	0
59.05	15.99	80.79	0
59.12	24.95	71.99	0
59.28	40.03	79.73	0
59.34	24.3	81.79	0
59.46	33.56	45.36	0
59.53	149.9	20.74	0
59.63	5.03	46.8	0
59.84	326.86	39.35	0
60	11.73	52.03	0
60.13	356.93	31.82	0
60.19	348.22	55.29	0
60.24	343.75	59.93	0
60.27	344.61	57.82	0
60.31	345.69	57.75	0
60.4	345.05	35.63	0
60.49	309.87	54.54	0
60.61	341.09	54.06	0
60.63	337.56	44.95	0
60.72	206.29	87.57	0
60.81	25.79	78.17	0
60.84	26.33	83.07	0
60.89	44.87	83.71	0
61.06	1.4	52.25	0
61.1	337.51	36.69	0
61.14	331.17	37.68	0
61.22	330.61	51.36	0
61.3	341.63	45.48	0
61.32	324.47	40.99	0
61.41	308.74	53.55	0
61.41	52.8	84.15	0
61.45	341.5	43.29	0
61.56	48	74.5	0
61.58	312.56	61.51	0
61.61	234.55	15.09	0
61.68	19.39	58.25	0
61.79	29.07	43.97	0
61.86	43.79	67.98	0
61.9	39.12	75.97	0
61.96	319.51	44.96	3.36
62.02	87.01	10.42	0
62.05	244	6.75	3.64
62.1	292.32	33.81	0
62.19	307.04	53.91	0
62.32	349.62	49.43	3.6
62.39	314.97	31.26	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 5 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
62.48	349.83	43.51	0
62.53	320.3	37.96	0
62.61	303.18	41.58	0
62.67	316.97	42.15	0
62.73	352.09	47.87	0
62.76	311.4	33.92	1.81
62.83	340.34	41.25	3.69
62.89	76.72	23.83	0
62.95	32.54	16.36	0
63.05	278.94	54.15	0
63.13	261.48	35.42	0
63.38	120.54	11.78	0
63.5	307.01	30.11	0
63.93	26.62	39.62	0
64.06	328.93	51.33	0
64.21	227.55	20.59	0
64.31	252.63	23.69	0
64.44	293.15	44.1	0
64.7	337.02	55.55	0
64.85	27.2	53.41	0
64.86	334.1	66.86	0
65.05	322.87	53.41	0
65.12	321.99	37.56	0
65.25	281.49	48.88	0
65.26	293.97	67.57	0
65.34	322.65	66.75	0
65.49	308.66	53.91	0
65.77	302.92	53.86	0
65.86	333.78	51.18	0
65.95	29.75	57.89	0
66.12	32.7	8.26	0
66.22	260.84	36.63	0
66.27	341.04	55.56	0
66.29	340.36	69.2	0
66.72	30.43	48.03	0
66.74	258.4	52.14	0
66.84	316.53	50.4	0
66.92	357.82	56.45	0
67.01	350.9	61.83	0
67.13	13.2	61.93	0
67.27	307.74	43.3	0
67.42	338.03	55.06	0
67.46	320.48	23.04	0
67.61	287.79	18.24	0
67.7	1.53	43.25	0
67.75	40.95	24.77	0
67.79	10.44	33.44	0
67.83	3.99	56.25	0
67.92	23.73	59.21	0
67.94	213.25	13.3	1.7
68	332.52	27.61	3.8

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
68.07	329.27	29.4	0
68.19	354.32	43.29	0
68.36	150.16	27.58	1.54
68.36	3.63	22.71	0
68.43	8.19	89.57	0
68.62	307.21	29.93	0
68.65	3.37	84.44	0
68.68	0.19	55.94	0
68.78	353.33	43.17	0
68.79	111.57	50.95	0
68.89	92.42	50.4	46.69
68.97	88.01	58.04	5.79
69.06	27.93	54.81	0
69.13	145.23	49.26	0
69.13	16.85	56.08	0
69.2	16.14	56.29	0
69.28	357.3	46.58	0
69.34	50.2	13.32	0
69.44	330.62	48.1	0
69.47	324.94	46.99	0
69.5	307.88	12.5	0
69.59	294.65	50.82	0
69.65	326.65	48.28	0
69.81	321.2	46.47	0
69.86	313.07	46.64	0
69.93	332.6	41.68	0
70	357.03	42.45	11.38
70.03	353.87	40.41	13.32
70.18	339.19	39.21	1.86
70.25	327.48	51.1	0
70.35	334.28	33.32	0
70.39	337.29	34.06	0
70.68	348.27	43.99	0
70.82	342.56	52.54	0
70.93	336.92	54.57	0
71.01	306.26	40.5	0
71.16	302.35	30.74	0
71.17	26.22	38.28	0
71.29	5.73	45.79	3.79
71.36	14.53	39.55	0
71.41	293.6	34.26	0
71.46	295.29	28.2	1.73
71.59	277.36	20.26	0
71.94	307.45	27.64	0
72.01	4.41	58.78	0
72.17	305.87	43.45	0
72.27	21.61	26.23	0
72.35	0.36	43.45	0
72.52	112.83	25.63	3.52
72.61	335.03	49.38	0
72.69	343.15	48.04	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 6 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
72.77	334.45	35.28	1.86
72.84	300.45	46.06	0
72.89	271.52	48.94	0
72.94	276.9	48.07	0
73.05	39.35	63.09	0
73.13	348.38	51.66	0
73.27	297.16	46.93	0
73.4	356.8	43.69	0
73.47	338.82	52.68	0
73.64	12.31	88.74	0
73.67	277.94	43.74	0
73.96	314.46	49.43	0
74.18	7.32	67.01	0
74.25	2.37	55.57	0
74.99	323.52	35.97	0
75.88	312.96	28.96	0
75.9	158.3	55.02	0
76.46	4.18	71.79	0
76.59	1.67	54.18	0
76.75	279.02	20.46	0
76.88	36.31	63.05	8.42
76.95	330.83	32.03	0
77.01	334.85	37.02	0
77.11	302.49	54.02	2.67
77.26	304.79	53.69	0
77.55	271.57	37.72	0
77.85	319.63	46.34	0
78.16	10.5	45.05	0
78.24	39.12	81.53	0
78.28	55.42	75.16	0
78.28	40.33	37.26	0
78.43	9.86	61.26	0
78.72	1.37	52.74	0
78.75	358.98	45.67	0
78.8	351.09	40.56	0
78.85	330.43	42.23	0
78.88	340.09	51.15	0
78.92	348.73	49.93	0
79.58	3.99	61.49	0
79.63	37.38	59.22	0
79.75	326.41	51.49	0
79.93	330.78	33.23	0
79.97	321.67	29.97	0
80.06	84.87	73.04	1.11
80.15	29.95	36.47	0
80.19	296.76	36.74	0
80.39	286.21	36.74	0
80.41	85.44	75.59	1.03
80.42	274.85	32.1	0
80.56	320.67	43.33	0
80.59	323.77	55.32	0
80.62	298.7	38.81	0
80.77	326.8	32.37	0
80.79	318.97	34.11	0
80.83	310.74	32.65	0
80.86	283.24	25.61	0
80.92	331.11	41.88	0
81.09	19.95	49.97	0
81.17	34.05	59.84	0
81.56	354.54	17.62	0
81.73	334.27	30.64	1.89
81.98	280.72	45.08	0
82.02	290.92	38.09	0
82.19	298.73	45.27	0
82.28	318.5	48.81	0
82.43	344.85	48.96	0
82.58	300.49	45.31	0
82.64	312.19	48.23	0
82.72	30.96	51.5	0
82.8	18.27	57.85	0
83.09	20.26	43.71	0
83.15	29.92	52.99	0
83.27	35.51	43.29	0
83.4	17.96	59.75	0
83.47	3.73	57.88	1.74
83.53	5.63	33.11	0
83.79	327.13	73.93	1.11
83.9	3.13	51.04	0
83.93	357.75	38.04	0
83.96	8.52	40.8	0
84.08	321.94	38.29	0
84.11	101.2	56.97	0
84.24	311.87	44.62	0
84.34	344.14	40.24	0
84.74	338.94	63.2	0
84.91	52.54	46.7	0
85.06	5.55	64.19	0
85.63	337.43	37.85	0
85.69	343.92	46.58	0
85.95	6.36	45.42	0
86.58	343.81	33.57	0
87.06	318.31	45.8	0
87.08	327.6	49.18	0
87.27	332.01	76	0
87.32	353.3	48.73	0
87.36	337.98	48.7	0
87.45	308.51	44.24	0
87.72	18.54	44.94	0
87.77	7.7	45.45	0
87.84	51.43	50.65	0
87.88	46.31	66.83	4.76
87.92	52.27	77.22	7.88

Table D11 Fracture orientation and apertures for BL-0111 (Page 7 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
88.06	1.37	70.55	0
88.17	23.44	68.2	0
88.24	306.12	51.05	0
88.32	333.3	56.85	0
88.33	253.54	39.47	0
88.6	27.58	52.38	0
88.64	21.72	61.43	1.72
88.79	34.02	61.84	0
89.41	331.57	45.62	1.75
89.54	9.47	87.74	0
89.63	338.02	49	0
89.69	312.44	23.1	5.54
89.76	325.27	25.97	0
89.81	7.32	54.72	0
90.59	333.16	55.78	0
90.67	3.55	54.68	0
90.74	329.57	44.27	0
90.89	5.59	58.13	0
90.94	15.12	57.57	0
91.04	38.61	48.76	0
91.22	5.31	64.49	0
91.29	355.31	57.09	0
91.38	4.33	54.54	0
91.41	15.99	66.52	1.64
91.45	359.85	56.17	3.5
91.8	349.01	55.26	20.58
91.87	3.93	50.76	0
91.98	349.86	54.76	0
92.1	350.69	55.58	1.72
92.5	6.39	47.63	0
92.52	8.94	48.18	0
92.64	15.03	41.59	0
92.71	21.48	53.99	0
92.84	339.28	23.9	0
92.95	306.7	35.79	0
93.05	302.87	39.06	0
93.15	24.06	63.46	0
93.44	354.2	57.12	0
93.96	0.5	58.41	0
94.23	355.78	42.37	0
94.42	314.45	49.14	0
95.25	298.74	33.72	0
95.36	338.41	55.45	4.94
95.64	23.46	52.69	0
95.93	357.13	52.6	0
96.09	305.87	79.17	0
96.38	299.4	60.86	2.22
96.52	318.61	46.57	4.71
96.58	21.25	54.37	0
96.73	276.61	70.02	0
96.8	342.19	26.63	0
97.53	344.61	41.55	1.86
97.62	7.62	60.52	1.72
97.67	331.34	46.78	0
97.82	316.12	46.1	0
97.88	331.68	52.72	0
97.94	325.49	55.03	0
98.12	340.04	52.72	0
98.34	1.49	49.29	0
98.37	1.88	44.98	0
98.47	353.79	53	0
98.56	345.46	50.27	0
98.67	358.4	54.65	0
98.72	351.7	44.42	0
98.79	356.95	58.19	0
98.85	345.6	68.75	0
98.93	345.8	47.17	0
99	199.47	27.96	0
99.18	318.35	61.98	0
99.49	103.86	45	0
99.72	355.77	51.19	0
99.97	6.42	25.42	0
100.15	106.55	36.82	0
100.5	327.71	34.2	0
100.75	337.06	41.98	0
100.84	322.81	20.48	0
101.03	341.45	60.51	0
101.31	22.14	48.47	0
101.59	7.66	61.7	0
101.88	344.23	39.06	0
101.98	324.9	48.2	0
102.14	339.94	55.35	0
102.25	194.5	14.09	0
102.47	288.07	68.05	0
102.61	320.97	52.1	0
103.4	278.41	48.81	0
103.6	351.99	68.88	0
103.67	348.36	58.22	0
104	316.14	36.34	0
104.23	25.36	67.89	0
104.47	2.2	51.09	0
104.55	27.62	70.64	0
104.67	10.81	65.83	0
105	319.85	33.64	0
105.06	57.73	59.89	0
105.16	68.47	50.95	0
105.42	26.02	64.1	0
105.49	21.12	65.48	0
105.72	251.47	31.89	0
105.83	5.15	76.26	0
105.91	345.87	15.44	0
106.03	44.31	69.46	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 8 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
106.13	26.69	46.35	0
106.34	29.2	48.18	0
106.51	356.8	23.01	0
106.66	31.81	37.94	0
106.68	66.76	59.25	0
107.35	326.93	75.51	0
107.59	305.89	8.18	0
107.69	351.24	34.69	0
107.73	324.65	51.14	0
107.92	0.18	73.58	1.43
108.28	10.9	16.99	0
108.43	24.77	68.67	0
108.63	351.8	66.89	0
108.76	301.57	33.42	0
108.8	32.12	67.12	0
108.87	81.74	39.87	0
108.98	358.04	70.24	0
109.09	61.98	58.39	0
109.18	46.56	80.3	0
109.42	256.27	30.48	0
109.52	284.54	39.56	0
109.79	328.08	44.12	0
109.87	261.77	30.1	0
110.06	22.95	59.89	0
110.2	3.7	48.62	0
110.38	341.3	30.77	0
110.48	349.31	53.61	0
110.64	352.28	49.57	0
110.69	342.76	51.82	0
110.76	330.36	47.18	0
110.92	335.14	58.5	0
111.05	311.54	49.77	0
111.13	312.43	50.56	0
111.32	6.95	46.96	0
111.45	313.81	70.14	0
111.67	358.35	50.08	0
111.75	310.94	35.41	0
111.85	327.51	76.97	0
112.04	320.07	53.05	0
112.13	41.27	62.38	0
112.32	74.83	60.27	0
112.4	7.8	58.09	0
112.47	347.64	47.52	0
112.57	348.51	36.83	0
112.72	355.71	53.23	0
112.79	6.59	48.66	0
113.29	2.35	50.4	0
113.34	356.11	54.78	0
113.41	327.41	24.46	0
113.5	335.08	44.67	0
113.66	36.53	58.9	0
113.86	17.88	72.73	0
114.04	69.02	48.3	0
114.55	272.58	44.89	0
115.03	312.6	43.79	0
115.16	168.8	29.86	0
115.39	267.35	48.11	0
115.62	272.11	38.15	0
115.99	108.12	46.46	0
116.18	236.32	42.39	0
116.35	170.76	32.98	0
116.64	302.94	19.93	0
116.67	138.44	29.87	0
116.81	357.93	43.66	0
116.85	354.26	43.23	0
116.96	120.06	24.44	0
117.15	232.77	35.15	0
117.49	87.28	33.54	0
117.57	83.87	31.62	0
117.66	274.38	54.37	0
117.72	252.28	52.62	0
117.81	245.6	57.63	0
117.9	192.79	11.48	0
118.14	216.57	16.62	0
118.3	3.53	64.39	0
118.39	18.85	29.95	0
118.47	10.4	56.12	0
118.49	354.94	52.46	0
118.53	58.57	20.99	0
118.59	25.46	52.87	3.69
118.69	86.09	36.3	1.78
118.75	55.44	71.3	0
118.94	138.55	29.94	0
118.97	8.69	69.99	0
119.04	13.55	63.65	0
119.45	66.88	83.88	0
119.79	9.14	40.93	0
119.89	303.99	45.44	0
119.95	306.02	45.03	0
120.06	308.23	60.37	0
120.19	54.6	65.33	0
120.33	287.47	33.66	1.62
120.42	321.1	49.27	0
120.69	20.86	71.87	0
120.91	28	64.14	0
120.93	29	64.24	0
121.43	27.48	69.53	0
121.54	32.49	49.24	0
121.59	22.26	57.03	1.79
121.8	28.96	60.24	1.74
121.96	48.39	71.24	1.47
122.05	321.41	61.25	2.8

Table D11 Fracture orientation and apertures for BL-0111 (Page 9 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
122.08	316.69	59.06	2.8
122.34	110.82	55.32	0
122.44	341.04	56.29	4.99
122.91	4.73	58.25	0
123.05	283.94	40.11	0
123.8	46.65	42.6	0
123.94	357.11	46.68	0
124.9	34.46	66.79	0
125.53	13.44	81.81	0
126.16	162.87	50.66	0
126.25	327.42	22.96	0
126.35	0.64	66.89	0
126.49	326.91	38.53	0
126.59	2.53	53.29	0
126.63	351.39	48.44	0
126.7	20.31	64.82	0
126.82	14.41	46.48	0
126.9	17.88	49.94	0
126.92	293.14	28.61	0
127.08	240.39	29.25	0
127.2	183.12	47.53	0
127.32	4.21	70.47	0
127.38	20.54	35.47	0
127.45	262.83	38.21	0
127.56	206.03	35.67	0
127.72	27.99	44	0
127.82	205.67	40.74	0
127.83	46.89	84.11	0
128.08	280.99	29.15	0
128.45	198.38	50.34	1.99
128.54	12.14	50.83	0
128.62	19.39	51.09	0
128.74	309.92	52.03	0
128.77	316.74	38.67	0
128.82	292.93	39.87	0
129.06	19.54	84.06	0
129.28	7.19	66.38	0
129.45	0.67	5.41	0
129.61	12.81	46.85	0
129.65	34.65	45.3	0
129.82	349.22	56.74	0
129.94	11.49	77.03	0
130	215.7	88.7	0
130.06	24.2	74.44	0
130.41	339.02	65.72	0
130.45	341.69	66.14	0
130.51	336.72	53.09	0
130.65	278.94	57.55	0
130.81	54.3	58.66	0
130.89	10.69	74.35	0
130.95	1.78	59.74	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
131.03	0.27	63.85	0
131.21	43.91	78.7	0
131.25	37.13	64.07	0
131.38	13.46	51.38	0
131.44	12.33	68.76	1.58
131.47	114.09	8.52	0
131.67	356.54	59.82	0
131.74	23.48	49.43	0
131.78	15.92	57.93	0
131.83	10.79	51.13	0
131.87	180.45	83.46	0
131.95	1.44	80.87	0
132.02	5.51	54.84	0
132.18	328.44	49.3	0
132.26	350.84	43.72	0
132.37	344.9	43.52	0
132.42	347.39	61.79	0
132.45	346.72	63.6	0
132.54	337.12	69.9	0
132.68	16.76	72.07	0
132.74	18.96	57.97	3.55
132.9	12.84	44.37	0
133	357.73	39.66	0
133.06	313.8	65.1	0
133.18	17.63	51.01	0
133.21	28.75	43.84	3.85
133.36	357.44	39.64	0
133.45	6.47	50.34	0
133.73	348.3	32.28	0
133.78	2.52	57.01	0
133.87	355.61	45.35	0
133.91	346.98	56.31	0
134.08	333.53	54.96	0
134.09	180.01	27.7	1.43
134.19	326.7	45.6	3.43
134.42	332.3	46.11	0
134.53	15.4	54.04	0
134.6	343.43	48.89	0
134.62	336	45.97	0
134.68	346.24	55.31	0
134.72	188.34	78.9	0
134.74	348.15	49.1	0
134.77	353.63	36.37	0
134.81	10.97	61.2	0
134.86	57	28.01	0
134.99	294.79	38.92	0
135.1	336.12	48.73	0
135.2	2.35	57.4	0
135.22	3.13	58.24	0
135.27	8.05	53.53	0
135.32	301.89	26.35	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 10 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
135.4	3.69	57.09	0
135.42	14.24	61.95	0
135.47	349.89	50.33	0
135.56	12.28	59.12	0
135.61	6.75	65.75	0
135.68	19.26	82.6	1.25
135.74	8.41	66.18	0
135.78	11	69.77	0
135.82	354.19	62.04	0
135.95	22.86	42.3	0
136.07	37.16	45.87	0
136.25	49.27	57.87	0
136.76	341.51	48.37	0
136.89	342.3	44.36	0
136.95	347.56	52.06	0
136.99	3.95	48.79	0
137.13	339.31	56.4	3.29
137.33	357.93	39.99	1.92
137.55	28.12	17.8	0
137.84	288.93	61.15	0
138.1	187.03	51.51	0
138.3	188.46	49.46	0
138.57	304.45	63.6	0
138.85	150.9	28.3	0
138.95	39.82	40.34	0
138.99	32.33	65.64	0
139.02	27.56	48.18	0
139.36	318.75	48.27	0
139.4	1.58	55.03	0
139.45	11.87	61.54	0
139.54	131.98	57.44	0
139.57	20.23	57.08	0
139.77	356.33	45.86	0
140.07	20.36	81.52	0
140.14	346.29	53.28	0
140.16	356.32	58.09	0
140.45	12.69	55.07	0
140.51	36.4	18.23	0
140.56	6.95	54.53	0
140.68	0.26	60.31	6.79
141.03	352.81	57.79	0
141.07	354.36	58.95	0
141.12	4.23	49.58	0
141.24	39.16	67.98	0
141.31	31.81	74.62	0
141.41	23.6	64.91	0
141.5	19.51	57.58	0
141.65	358.94	44.43	0
141.79	359.35	56.22	0
141.89	331.49	47.32	0
141.95	343.84	53.08	0
142.06	21.86	79.7	1.34
142.17	357.75	56.36	1.75
142.35	101.66	27.15	1.79
142.38	317.53	48.89	0
142.61	44.14	81.59	0
143.07	47.09	82.37	0
143.24	58.63	47.15	0
143.51	4.54	54.97	0
143.93	326.32	55.02	0
143.97	330.52	52.51	0
144.01	8.08	39.71	0
144.11	66	47.59	0
144.32	356.89	53.03	0
144.49	7.1	77.75	1.36
144.63	5.68	44.95	0
144.81	165.08	53.18	0
144.98	218.22	42.49	0
145.51	13.12	77.35	0
145.64	37.56	52.29	0
145.76	24.44	56.34	0
145.9	349.75	64.39	0
146.06	351.28	80.88	0
146.18	57.72	26.51	0
146.24	14.36	67.6	3.22
146.3	9.91	64.55	0
146.38	20.05	53.02	0
146.48	336.15	35.04	0
146.51	346.02	39.62	0
146.55	345.74	45.88	0
146.62	339.77	54.49	0
146.67	352.13	45.9	0
146.86	167.09	30.54	0
146.87	205.72	30.85	0
146.88	329.2	44.42	0
147.05	358.71	42.16	0
147.08	7.67	52.64	0
147.16	344.58	49.22	0
147.23	1.84	37.95	0
147.34	20.74	50.9	0
147.4	6.7	53.24	0
147.55	357.51	58.7	0
147.58	148.86	32.65	1.44
147.66	14.33	37.36	0
147.77	350.05	45.98	0
147.84	20.73	73.02	0
147.95	354.72	54.82	3.52
148.05	343.54	51.78	0
148.08	357.18	43.57	0
148.12	350	35.62	0
148.18	29.4	64.27	0
148.22	249.35	4	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 11 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
148.33	269.01	27.17	0
148.52	347.95	36.14	0
148.54	20.94	73.86	0
148.62	283.91	31.19	0
148.71	347.17	63.7	0
148.8	333.59	41.49	0
148.88	286.98	35.34	0
148.98	5.27	70.06	0
149.16	8.23	55.25	3.6
149.24	3.44	70.95	0
149.34	359.58	57.2	0
149.41	247.17	51.75	0
149.46	56.33	14.61	0
149.53	356.33	53.37	5.35
149.69	180.35	9.62	0
149.72	12.26	76.81	0
149.76	13.49	84.51	0
149.85	112.45	46.42	0
149.93	15.37	63	1.7
149.98	18.97	62.48	0
150.09	340.01	45.87	0
150.15	352.22	62.09	0
150.24	11.62	63.92	0
150.28	13.27	71.2	0
150.32	17.35	73.2	4.49
150.6	28.7	74.35	0
150.7	4.47	74.09	0
150.83	349.83	69.36	0
150.92	334.91	68.78	0
150.96	355.11	66.37	1.56
151.06	14.6	72.84	0
151.1	13.51	68.45	0
151.26	12.34	80.92	0
151.3	15.75	77.2	0
151.56	359.56	43.14	0
151.57	18.71	86.14	0
151.59	332.61	44.23	1.77
151.66	19.51	68.28	0
151.69	16.69	69.11	0
151.75	20.52	63.61	0
151.79	13.48	68.85	0
151.97	319.28	44.06	0
152.36	348.66	49.54	1.8
152.49	12.01	59.4	0
152.53	18.48	59.71	0
152.57	49.54	63.43	0
152.69	10.71	64.44	0
152.79	14.39	65.95	0
152.95	16.63	73.83	0
152.99	8.68	72.4	0
153.1	17.54	59.68	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
153.15	5.38	72.04	0
153.19	13.5	78.23	0
153.31	7.24	74.25	0
153.54	6.66	85.21	0
153.56	15.52	81.91	0
153.64	32.04	83.63	0
153.79	283.28	56.2	0
153.93	330.38	61.32	0
154.09	326.69	66.06	1.34
154.25	283.55	32.42	3.19
154.38	18.04	77.77	0
154.41	356.29	72.12	2.91
154.46	5.96	72.11	0
154.5	2.52	81.08	0
154.84	22.55	87.06	0
154.9	145.77	35.82	0
154.98	159.39	3.11	0
155.14	359.53	72.72	0
155.22	334.7	49.83	0
155.35	343.02	58.24	0
155.41	313.64	46.94	3.2
155.52	326.19	49	0
155.64	10.67	61.83	0
155.79	45.52	83.27	0
155.8	92.6	35.18	0
156	30.33	56.94	0
156.47	10.45	53.56	0
156.57	46.97	60.9	0
156.61	291.06	47.85	0
156.65	18.75	66.7	0
156.68	12.89	68.38	0
157.03	24.7	81.31	0
157.12	32.27	64.6	0
157.35	26.62	55.04	0
157.4	333.16	38.16	0
157.48	5.51	71.29	0
157.58	42.36	76.34	0
157.69	10.85	48.77	0
157.8	344.3	84.43	0
158	7.36	56.74	0
158.05	28.28	58.84	0
158.1	8.58	68.24	0
158.14	7.81	67.72	0
158.29	19.03	68.88	0
159.04	17.45	88.23	0
159.16	12.58	67.17	0
159.24	12.7	78.15	0
159.3	43.03	34.64	0
159.37	11.94	57.14	0
159.4	14.48	58.99	0
159.48	15.99	66.02	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 12 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
159.5	357.5	13.49	0
159.67	330.15	58.22	0
159.77	355.47	51.59	0
159.88	4.56	88.58	0
160.06	21.55	59.99	0
160.12	276.51	24.88	1.68
160.13	11.41	65.23	0
160.35	349.46	60.39	0
160.4	19.57	57.9	0
160.61	38.53	78.48	0
160.78	14.24	78.82	0
161.38	292.5	27.95	0
161.63	283.08	52.13	2.33
162.25	322.25	56	0
162.38	332.34	60.75	0
162.61	355.06	64.82	0
162.7	6.62	80.28	1.29
162.74	12.87	84.88	1.18
162.91	3.98	63.19	5.02
162.99	356.2	70.13	4.5
163.03	352.71	68.54	3.03
163.09	347.01	71.46	2.82
163.16	5.21	63.57	1.67
163.19	4.46	62.39	0
163.24	3.62	70.37	0
163.48	339.45	61.14	0
163.71	352.13	54.84	0
163.91	349.54	47.31	0
163.95	343.75	45.53	0
164.01	334.32	50.49	0
164.16	349.64	36.46	0
164.32	346.38	59.35	0
164.82	32.17	82.88	0
165.17	0.74	52.5	7.27
165.3	349.35	44.74	0
165.93	28.2	54.77	0
166.5	346.71	80.46	0
166.81	341.77	39.38	0
167.93	1.62	88.17	0
168.46	6.41	66.7	0
168.83	12.96	74.58	0
168.96	349.6	56.04	0
169.15	351.06	46.15	0
169.35	337.27	55.1	0
169.45	343.64	66.77	0
169.49	314.74	84.57	0
169.67	8.15	52.61	0
170.19	310.99	53.64	0
170.37	7.86	68.66	0
170.82	254.76	50.51	0
171.1	196.67	83.16	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
171.53	355.01	44.15	0
172.02	29.75	88.8	0
175.05	5.66	53.09	0
175.19	74.44	28.96	0
175.47	7.8	42.1	0
177.13	45.9	84.69	0
177.45	317.62	39.73	0
177.77	195.63	87.19	0
178.02	347.06	86.81	0
178.47	332.82	49.63	0
179.15	16.89	57.23	0
179.17	31.62	53.37	0
179.85	346.66	53.81	0
180.03	2.58	52.97	0
180.15	318.86	36.32	0
180.42	357.08	65.35	0
180.89	17	67.53	0
181.87	68.05	16.16	0
182.2	22.35	74.73	0
182.44	53.99	69.24	0
182.87	92.34	32.8	0
183.09	41.59	64.29	0
183.12	28.33	52.91	0
183.21	31.51	64.15	3.39
183.46	170.94	84.41	0
183.75	13.57	50.37	0
183.78	23.57	39.35	0
183.99	0.04	39.36	0
184.16	23.98	59.7	0
184.18	90.76	80.61	0
184.24	341.89	47.5	0
184.36	337.33	31.81	0
184.59	27.5	54.25	0
184.75	22.3	54.86	0
184.79	205.27	2.65	0
184.95	339.11	28.87	0
185	8.68	41.28	0
185.1	37.51	70.07	0
185.26	27.43	65.39	0
185.35	34.69	54.66	3.68
185.42	304.84	25.68	0
185.51	325.2	34.38	0
185.58	7.26	43.6	0
185.62	3.69	47.98	0
185.74	22.18	51.13	5.65
185.84	32.43	52.94	0
185.88	35.28	64.23	3.39
185.94	22.22	60.71	0
185.97	10.94	65.76	1.68
186.01	30.75	60.75	0
186.03	28.99	59.53	1.78

Table D11 Fracture orientation and apertures for BL-0111 (Page 13 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
187.78	320.7	84.31	0
188.01	324.46	89.88	0
188.4	272.6	8.62	0
188.5	353.33	58.29	0
188.77	0.57	41.74	0
188.97	334.52	83.87	0
189.05	340.71	58.85	0
189.48	31.49	70.15	0
190.07	291.23	26.27	0
190.62	180.78	80.68	1.41
191.37	153.9	81.98	0
192.48	318.74	18.38	0
193.14	346.89	88.04	0
193.76	184.17	86.43	0
194.13	203.14	16.61	1.59
194.5	307.69	40.85	0
194.57	277.81	31.18	0
194.58	283.56	69.64	0
197.14	153.33	47.76	0
198	86.69	62.93	0
198.13	65.36	60.65	0
198.8	174.87	27.31	0
199.4	84.67	83.94	0
199.54	73.35	54.83	0
199.77	147.85	48.64	0
200.28	201.39	82.61	0
200.56	152.29	52.94	0
200.81	133.07	55.47	0
201.17	178.72	86.72	0
201.33	184.62	80.39	2.12
201.45	169.36	49.23	0
201.65	135.25	46.96	0
201.87	45.39	75.66	0
201.96	42.77	78.64	0
202.67	236.22	27.48	0
202.87	61.29	36.79	0
202.94	23.22	53.14	0
203.77	17.75	56.79	0
204.19	15.23	48.95	0
204.34	345.66	36.59	0
204.63	94.7	54.1	0
204.77	76.79	53.01	0
204.86	338.68	61.55	0
205.31	320.76	84.88	0
205.52	303.13	72.9	0
205.75	345.85	8.08	0
206.02	134.93	38.28	0
206.09	261.42	4.03	0
206.27	18.96	84.18	0
206.38	18.94	65.31	0
206.47	29.9	70.09	0
206.57	33.43	75.7	0
207.52	5.86	49.26	0
207.69	19.97	46.31	0
208.19	26.19	52.79	0
209.19	1.1	60.85	0
209.22	18.1	61.22	0
209.26	22.53	59.81	0
209.67	8.64	40.59	0
209.69	14.69	48.26	0
209.83	20.54	35.97	0
210.23	31.93	53.03	0
210.51	19.15	62.75	0
210.54	13.28	59.38	0
210.77	61.8	12.57	0
210.88	14.08	57.9	0
210.93	18.09	43.79	0
211.01	14.52	57.15	0
211.15	19.04	40.08	0
211.28	14.31	53.77	0
211.32	353.35	42.16	0
211.35	24.03	44.21	0
211.48	13.12	44.44	0
211.54	60.82	16.72	0
211.57	7.77	33.99	0
211.71	18.81	36.9	0
211.76	28.22	48.65	0
211.96	28.15	63.1	7.01
212.02	35.61	87.05	0
212.31	25.25	54.57	1.86
212.38	24.37	52.28	77.29
212.56	19.81	46.05	0
212.74	12.19	53.14	0
212.81	12.16	41.51	0
212.92	17.23	48.92	0
213.15	23.59	48.81	0
213.27	11.9	55.23	0
213.48	22.95	70.25	0
213.61	28.1	60.78	0
213.91	253.66	45.48	0
214.09	20.9	60.81	0
214.25	6.3	57.43	3.64
214.35	28.71	57.7	3.64
214.55	21.64	54.6	0
215.43	14.12	51.6	0
217.48	58.41	67.93	4.52
217.62	35.84	61.28	7.04
218.06	50.32	64.05	1.65
218.3	30.4	55.7	0
220.94	13.81	55.64	0
221.17	3.5	77.35	2.94
221.36	21.76	48.48	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 14 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)	Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
223.9	163.22	78.3	0	242.6	3.65	72.27	0
225.6	160.38	89.88	0	242.64	359.88	77.31	0
226.12	27.91	77.67	0	244.7	9.42	37.92	0
226.56	283.4	43.95	0	244.78	5.49	51.1	0
226.72	1.43	55.36	0	245.82	17.63	62.91	0
227.08	21.75	69.05	0	245.85	26.01	60.63	0
227.11	185.79	77.41	0	246.85	306.78	6.64	0
227.14	24.82	77.02	0	247.39	15.11	51.41	0
227.83	158.98	87.85	0	248.04	7.84	76.05	0
229.45	42.25	60	0	248.32	20.11	74.48	3.18
229.95	7.06	47.9	1.92	248.37	13.81	65.79	0
230.16	6.79	44.88	0	248.45	3.68	65.24	0
230.33	12.12	13.28	0	248.53	21.21	58.43	0
230.76	43.31	81.67	0	249.27	35.96	68.59	0
230.88	176.89	74.11	0	249.3	32.28	66.92	0
230.95	17.54	84.63	0	249.39	14.06	55.38	0
231.2	24.69	43.44	0	250.46	238.6	27.24	0
231.25	34.48	59.66	0	251.62	331.18	50.74	0
231.44	356.94	46.34	0	252.19	29.96	49.53	3.87
231.68	39.84	78.67	0	252.72	25.35	56.85	3.72
232.42	4.45	51.88	0	253.36	356.68	68.1	0
232.54	80.65	76.99	2.07	253.56	21.85	77.35	3.1
233.83	316.35	79.84	0	254.83	17.22	72.68	0
234.01	283.72	54	0	255.03	276.35	54.5	0
234.4	304.59	36.99	0	255.35	330.76	38.24	0
234.42	290.98	38.12	0	255.5	309.61	33.46	0
234.77	326.3	29.94	1.87	256.35	319.41	32.43	0
234.8	321.9	28.29	0	257.26	43.07	61.33	0
234.97	289.11	25.76	0	257.73	303.43	43.5	0
235.89	327.73	83.35	0	258.24	309.82	42.44	0
236.17	26.95	75.69	0	260.72	276.97	31.45	3
236.19	87.72	85.77	0	260.92	325.7	40.91	0
236.42	13.37	72.7	0	261.04	290.43	48.29	0
236.76	150.97	47.53	0	262	344.76	44.12	0
236.81	96	86.76	0	262.09	349.92	74.29	0
237.26	99.3	84.68	0	262.27	350.7	32.6	0
237.49	25.11	34.63	0	262.58	14.95	88.1	0
238.05	19.86	49.13	0	263.11	333	45.13	0
238.15	27.43	65.1	0	263.3	319.29	50.87	0
239.19	21.93	52.37	0	263.57	79.74	71.54	0
239.26	15.14	68.76	0	264.19	291.3	14.76	0
239.44	1.08	57.97	0	264.62	266.83	19.13	0
239.51	30.02	71.9	0	264.69	213.05	76.12	0
239.59	15.47	72.83	0	264.8	251.78	24.89	0
239.65	8.57	65.36	0	265.94	286.77	55.37	1.11
239.88	0.05	28.8	0	267.03	212.02	20.9	0
240	31.44	81.17	0	267.53	8.24	33.86	0
240.09	73.87	78.46	0	267.63	147.81	37.23	0
241.51	6.96	45.26	0	267.83	353.3	25.05	0
241.64	24.71	54.94	0	267.91	335.83	19.84	0
242.52	21.68	63.85	0	268.52	332.5	34.09	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 15 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)	Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
268.71	3.67	70.64	0	284.62	302.75	28	8.72
268.82	299.39	62.18	0	285.31	93.06	47.42	0
270.08	180.11	83.58	0	285.43	109.58	4.9	0
272.42	277.96	42.25	0	285.89	168.16	13.57	0
272.6	300.97	26.56	3.5	285.95	358.39	38.55	3.93
272.65	309.28	30.45	3.51	286	179.68	34.22	0
273.63	13.56	64.86	0	286.16	286.18	34.93	0
273.84	27.28	59.17	0	286.55	260.56	42.15	0
274.21	353.46	56.73	3.62	286.8	231.24	29.44	0
274.59	348.45	47.23	0	287	222.68	34.55	2.02
274.96	206.16	83.65	0	287.25	286.09	19.88	0
275.19	9.95	78.68	0	287.49	295.15	13.52	0
275.27	6.64	52.81	0	287.57	280.28	21.82	0
275.41	318.25	50.46	0	287.76	323.68	18.63	0
275.6	338.73	51.14	1.8	287.91	0.9	47.86	0
276.01	297.23	36.11	0	288	358.4	33.49	0
276.58	11.23	52.51	0	288.28	141.88	24.57	0
276.67	26.53	64.84	1.78	288.59	330.3	58.36	0
277.45	27.98	63.05	1.78	288.64	38.08	44.8	0
277.51	301.84	17.37	0	288.73	179.5	47.2	0
277.58	35.2	56.45	1.87	288.77	50.97	57.18	3.54
278.19	40.22	63.06	0	288.86	28.48	54.53	1.9
278.54	13.17	50.6	0	289	316.91	54.49	3.1
278.92	326.52	56.81	1.63	289.17	283.89	51.76	0
279.09	31.94	56.55	0	289.33	246.18	45.65	0
279.36	12.4	34.66	0	289.57	229.45	23.44	0
279.76	217.08	73.15	0	289.78	297.04	43.49	0
279.87	200.64	88.46	0	289.84	308.88	44.42	0
279.99	28.16	77.97	0	290.08	304.15	55.18	0
280.15	26.38	89.4	0	290.23	48.03	64.3	0
280.19	205.43	88.84	0	290.34	36.16	46.41	0
280.41	332.21	64.9	0	290.63	347.63	34.47	0
280.61	322.04	48.88	0	290.78	337.01	37.27	0
280.66	333.8	41.67	0	290.91	247.3	34.14	0
280.71	327.85	39.16	0	290.96	57.92	76.71	2.78
280.85	344.25	38.63	0	291.2	2.29	2.7	0
281.06	0.46	59.18	0	291.55	344.28	46.68	0
281.1	332.27	43.33	0	291.71	310.49	51.54	0
281.25	332.68	64.5	0	291.99	268.95	25.07	0
281.36	342.16	54.96	0	292.2	308.29	52.66	0
281.55	242.81	89.14	0	292.2	196.15	80.49	0
281.79	196.74	37.85	0	292.3	348.02	49.95	0
282.02	51.64	55.85	0	292.39	357.32	42.85	0
282.18	15.38	63.94	0	292.53	287.77	45.64	0
282.36	33.66	77.39	0	292.81	302.73	63.04	0
282.48	228.06	33.62	0	293.8	356.64	58.62	0
282.77	255.02	39.12	0	293.86	285.59	20.68	0
284.04	205.83	29.44	0	293.92	299.2	44.99	1.5
284.11	194.85	29.74	0	294.77	188.18	24.53	0
284.33	255.36	28.95	0	294.84	336.81	40.87	5.59
284.44	312.43	29.88	0	294.89	324.42	29.13	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 16 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
294.99	255.95	40.25	0
295.2	353.83	39.44	15.59
295.27	324.85	14.43	5.47
295.48	310.96	47.89	0
295.96	20.38	89.18	0
296.08	222.87	20.37	0
296.52	334.61	75.84	0
296.67	306.8	71.61	0
297.02	62.08	64.97	0
297.19	333.93	50.11	5.3
297.28	339.49	52.47	0
297.37	341.61	31.11	3.86
297.43	327.43	34.33	0
297.56	318.98	56.34	0
297.95	349.98	40.46	0
298.15	324.33	78.64	0
298.26	27.66	40.75	7.92
298.26	324.49	69.81	0
298.3	27.04	45.4	5.86
298.42	267.68	35.56	0
298.52	38.27	26.84	5.95
298.6	187.38	30.26	0
298.6	319.69	63.04	0
298.68	16.14	14.35	0
298.76	313.6	76.89	0
298.87	331.53	39.29	0
298.93	23.46	40.65	0
299.08	13.87	43.96	0
299.16	11.29	38.67	0
299.17	13.17	44.34	3.93
299.29	316.01	24.17	0
299.4	339.76	58.9	3.41
299.4	197.23	85.33	0
299.49	307.67	31.51	0
299.56	336.89	29.65	0
299.67	298.75	45.85	0
299.73	260.36	47.46	0
299.79	283.74	41.59	0
299.86	307.02	43.65	0
299.87	39.59	75.24	0
299.96	37.61	87.54	0
300.13	218.2	33.79	2.07
300.17	345.31	37.19	3.86
300.23	7.06	30.03	0
300.25	27.57	46.18	3.92
300.46	27.56	67.58	0
300.66	319.38	48.03	0
300.8	357.1	59.79	0
300.85	284.57	60.03	0
301.04	123.48	11.92	0
301.12	53.34	6.56	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
301.24	154.92	19.23	0
301.37	333.11	31.55	1.9
301.46	58	17.98	0
301.66	355.79	5.11	0
301.77	321.1	46.06	0.03
301.93	317.51	14.03	0
302.02	4.1	60.45	0
302.12	338.87	38	0
302.19	18.7	40.73	0
303.07	147.6	22.63	0
303.09	217.5	7.04	0
303.24	354.93	49.85	0
303.56	353.18	62.61	0
303.6	39.29	75.24	0
303.77	193.45	22.94	0
303.78	42.3	50.49	0
303.87	275.17	38.61	0
303.96	295.6	34.63	0
304.4	358.86	63.59	0
304.45	346.7	70.17	0
304.49	8.84	14.19	0
304.51	316.2	12.51	0
304.88	334.94	46.3	0
304.98	348.86	66.64	0
305.03	311.91	33.13	0
305.15	313.01	42.32	0
305.17	333.7	46.9	0
305.35	307.55	49.9	0
306.08	322.27	34.95	0
306.12	350.3	43.2	0
306.36	355.01	62.79	0
306.41	345.54	44.25	0
306.56	22.03	64.3	0
306.65	319.47	34.45	3.6
306.74	20.47	33.99	0
306.83	0.28	39.74	0
306.88	359.97	40.62	0
306.92	348.65	41.22	3.87
306.94	15.41	51.98	0
307.03	12.86	55.31	3.78
307.21	333.9	44.79	0
307.23	23.83	52.1	0
307.33	332.64	42.52	0
307.44	318.49	57.07	0
307.45	26.87	65.82	0
307.56	320.22	49.89	0
307.67	305.8	56.49	0
307.76	309.7	44.87	0
308.03	6.91	45.91	0
308.07	42.72	55.11	0
308.13	14.84	47.67	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 17 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
308.76	344.45	74.2	0
309.04	30.26	44.63	0
309.44	26.43	61.5	0
309.5	11.72	72.7	0
309.54	28.88	68.39	0
309.68	352.43	72.68	0
309.75	36.93	49.58	0
309.8	345.38	60.44	3.45
309.84	4.54	71.57	1.66
310	331.42	71.56	0
310.06	321.9	60.54	1.49
310.17	283.53	39.28	0
310.41	220.91	14.67	181.26
310.77	176.89	23.54	149.15
311	326.6	36.58	3.66
311.07	300.68	13.91	1.81
311.16	109.95	13.87	14.01
311.28	12	85.11	1.38
311.43	14.24	66.04	0
311.55	240.79	10.56	1.67
311.6	197.84	20.17	0
311.66	225.73	36.95	4.02
312	337.96	8.29	1.88
312.1	256.67	34.3	1.27
312.22	278.75	33.08	0
312.3	278.55	24.81	0
312.52	328.08	25.91	0
312.67	75.29	17.08	0
312.86	2.2	15.23	0
312.93	301.65	4.22	3.6
313.07	318.36	17.2	0
313.4	187.9	17.8	0
313.73	213.66	29.9	0
313.82	314.76	23.67	0
314.5	4.29	14.09	0
314.63	20.79	18.92	0
314.9	330.64	19.13	5.66
314.95	347.03	19.6	3.83
315.21	331.68	70.23	0
316.23	346.09	35.26	0
316.74	306.84	21.05	0
316.82	332.5	36.97	0
316.9	311.71	30.5	0
316.94	335.82	32.62	0
317.12	206.31	76.98	0
317.4	352.51	35.95	0
317.99	322.59	74.17	0
318.37	342.97	50.98	0
318.43	346.58	36.46	0
319.66	49.78	59.06	0
319.94	51.59	32.54	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
320.16	155.78	86.25	1.65
320.25	56.86	22.86	0
320.38	347.62	88.63	1.12
320.46	85.8	20.75	0
320.75	349.27	83.02	0
320.85	92.42	15.18	0
322.28	313.98	19.99	0
322.63	335.79	74.58	0
323.1	56.49	9.07	0
323.37	310.43	38.56	0
324.25	17.97	81.86	0
324.37	9.56	45.41	0
325.04	15.48	80.66	0
325.17	269.45	8.35	0
325.24	312.55	17.47	0
326.88	93.51	44.74	0
328.02	88.87	81.66	1.49
329.21	68.08	85.96	0
329.52	266.58	17.91	0
329.72	279.7	13.19	0
330.23	358.84	59.01	0
330.71	0.81	50.23	0
330.99	12.15	17.06	0
331.05	18.65	32.15	0
331.11	337.93	19.26	0
332.76	317.4	17.41	0
333.14	186.81	26.97	0
333.66	139.72	33.32	0
336.13	316.51	25.16	0
336.83	278.57	42.6	0
337.84	5.05	86.43	0
338.9	37.62	83.48	0
339.14	256.51	34.8	0
342.38	301.46	32.96	0
342.75	26.08	75.7	0
343.92	18.82	53.8	0
345.58	294.77	46.82	0
347.17	214.5	17.27	0
348.07	1.94	47.3	0
349.48	22.64	50.28	0
349.56	31.04	75.75	0
358.49	21.55	71.3	0
359.68	21.3	86.64	0
361.19	8.6	67.04	0
361.87	303.5	22.18	0
362.79	34.29	47.3	0
367.18	300.82	77.57	2.14
369.58	10.1	38.91	0
371.85	103.94	63.93	0
372.23	348.59	70.15	0
373.49	312.51	69.16	0

Table D11 Fracture orientation and apertures for BL-0111 (Page 18 of 18).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
373.58	95.24	67.12	0
376.91	23.72	71.34	0
378.85	26.36	62.53	0
379.64	7.23	53.1	0
381.94	9.02	81.17	0
382.1	185.72	87.93	0
383.33	38.4	39.67	0
386.93	354.27	74.42	0
393.13	94.83	20.74	0
394.91	88.34	57.36	0
395.09	89.7	56.96	0
395.75	22.88	72.49	0
398.37	40.62	31.08	0
401.8	34.98	27.8	0
402.33	18.81	30.82	0
403.71	339.28	39.99	0
404.26	319.92	22.31	0
405.2	17.81	28.83	0
405.45	18.02	31.4	0
406.2	14.13	28.59	0
408.95	21.57	27.8	0
410.21	77.02	65.04	0
411	174.36	87.6	0
416.76	261.93	14.58	0
419.91	347.25	7.45	0
421.94	271.7	36.7	0
424.12	324.44	46.24	0
426.38	209.2	40.69	0
427.16	197.48	38.89	0
428.15	195.88	30.85	0
428.51	102.53	63.66	0
433.02	38.07	61.83	0
433.15	281.22	17.37	0
433.66	92.7	56.62	0
434.67	21.88	85.54	0
434.93	307.99	8.86	0
436.11	116.57	60.67	0
436.42	183.5	13.73	0
436.43	171.47	83.12	0
436.52	244.66	6.89	0
438.33	56.13	6.48	0
443.38	349.53	36.24	0
444.41	339.48	30.19	0
447.42	264.93	20.63	0
449.51	247.26	84.94	0
450.9	44.35	18.71	0
451.55	6.1	83.25	0
453.16	22.99	80.69	0
455.17	183.63	35.38	0
458.46	193.23	17.1	0
460.04	181.1	27.8	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
460.28	197.36	25.41	0
465.22	350.21	86.36	0
465.47	36.16	73.13	0
468	25.78	31.79	0
469.15	339.57	83.16	0
473.04	55.63	34.65	0
473.07	76.73	27.3	0
473.23	119.92	45.35	0
473.36	57.89	50.09	3.69
478.52	218.57	22.6	0
484.46	173.12	26.88	0
End			

Table D12 Fracture orientation and apertures for BL-0143 (Page 1 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
7.65	344.19	30.01	0
7.74	0.58	41.24	0
7.83	337.6	16.75	0
7.92	17.33	36.46	0
7.98	320.81	13.48	0
8.25	162.96	39.73	0
8.32	131.8	66.87	0.63
9.35	3.07	33.97	0
9.39	8.51	28.76	0
9.73	104.23	89.51	0.58
9.85	293.97	74.11	0
10.32	291.79	82.29	0
10.55	357.14	49.44	0
10.56	359.73	33.86	0.85
10.58	355.81	49.37	1.57
10.83	325.84	47.14	0
11.02	136.3	71.25	1.12
11.26	154.36	22.49	0
11.78	158.48	38.21	0
12.58	303.82	31.83	0
13.28	126.63	38.69	0
13.91	138.77	22.84	0
14.97	11.2	37.93	0
15.04	9.83	38.47	0
15.33	346.69	40.01	0
15.82	137.18	75.99	0.88
16.03	329.73	38.06	0.93
16.38	293.32	41.39	0
16.65	247.61	60.3	0
17.07	137.69	89.21	0.61
17.25	30.98	81.44	0
17.83	322.03	28.4	0
18.41	189.4	55.76	2.45
19.57	8.28	42.16	0
19.77	14.21	44.11	1.18
19.87	95.58	62.13	0.38
20.57	278.09	53.61	0
21.02	291.1	22.08	0
21.29	152.56	76.84	0
21.69	10.58	35.87	0
22.89	14.96	41.53	0
23	338.97	32.21	0
23.65	0.59	45.44	0
23.76	17.47	42.63	0
23.82	156.89	43.86	0
24.44	0.6	36.18	0
25.35	16.74	43.09	0
25.45	22.13	40.6	0
25.55	0.94	35.27	0
25.9	159.51	77.76	0
26.13	177.29	65.18	0
26.24	132.27	69.1	0
26.68	323.46	28.19	0
27.22	203.42	72.19	0
27.63	9.84	27.62	0
27.8	325.02	32.39	0
27.85	13.15	32.37	0.87
27.87	356.75	20.91	0
27.9	174.3	60.89	0
28.54	351.51	23.3	0
29.53	24.93	30.45	0
29.61	23.06	33.19	0
29.76	283.35	20.7	0
30.6	71.02	17.2	0
30.61	109.72	56.67	0
30.65	296.42	78.16	0
31.06	359.18	45.68	0
31.61	158.67	63.3	0
31.66	137.46	71.44	0
32.74	145.13	12.71	0
33.24	22.56	20.48	2.2
33.26	154.61	88.43	0
33.72	151.07	87.79	0
33.73	2.6	39.08	0.77
34.17	39.72	18.33	0
34.47	303.8	47.84	0
34.55	4.29	31.75	0
34.59	355.75	35.94	0
34.61	327.55	29.26	0
34.65	1.87	26.34	0
34.82	21.76	51.71	0
34.83	21.25	43.6	0
36.14	116.15	69.07	0.73
37.44	303.49	26.45	2.52
38.38	11.58	44.1	0.63
38.52	11.04	40.32	0
38.6	91.28	19.43	0
38.73	113.29	54.08	0
39.92	308.06	59.61	0
41.03	177.29	53.21	0
41.42	13	48.67	0.53
41.44	7.15	49.33	0
41.8	336.22	44.63	0
42.01	149.52	67.42	0
42.06	1.72	43.83	0
42.43	269.22	18.9	0
42.76	163.34	76.64	0
43.28	0.74	32.35	0
43.76	24.36	31.48	0
44.99	11.92	47.28	0
45.26	51.64	84.2	0
46.05	129.94	69.99	0.96

Table D12 Fracture orientation and apertures for BL-0143 (Page 2 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
46.17	25.22	48.43	0
46.21	16.97	44.01	0
46.31	19.59	43	0
46.97	3.98	49.05	0
47.38	11.59	52.88	0.86
47.46	344.55	53.2	0
47.52	4.07	39.44	0
47.61	7.75	42.34	0
48.17	24.21	52.47	0.81
48.91	147.75	46.18	0
49.03	6.31	44.77	0
50.04	316.9	18.5	0
51.11	14.71	41.64	0
51.28	342	33.5	0
52.19	7.5	48.63	0
52.86	320.3	14.55	0
53.65	24.51	50	0
53.82	13.35	44.87	0
53.93	356.2	20.41	0
54.95	0.48	20.84	0
56.04	16.63	81.74	0
56.05	205.42	80.95	0
57.19	116.65	71.93	0.64
57.23	129.05	76.05	0.98
57.85	211.25	65.74	0
58.39	351.61	39.36	0
58.61	339.5	37.17	0
59.33	353.72	49.11	0
60.28	338.83	51.61	0
60.74	5.4	46.11	0
61	22.56	51.67	0
61.05	326.82	31.29	0
61.1	352.76	36.47	0
61.24	356.94	42.22	0
61.44	17.02	45.77	0
61.67	119.47	34.64	0
61.67	247.79	61.63	0
62.06	14.4	43.66	0
62.57	20.16	45.53	0
62.92	351.64	40.31	0
62.97	126.19	72.85	0.7
63.25	334.99	24.18	0
63.38	15.51	41.64	0
63.47	312.38	34.77	0
63.53	6.19	28.54	0
63.59	1.27	37.12	0
63.68	6.13	42.41	0
63.68	335.47	30.46	0
63.72	339.79	36.26	0
63.85	334.12	20.2	0
63.9	342.76	34.02	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
63.98	344.06	35.42	0
64.2	2.3	34.36	0
64.58	349.18	19.37	0
64.65	5.78	16.25	0
65.12	27.99	62.1	0
65.33	20.7	40.67	0
65.65	47.58	38.83	0
65.75	51.72	52.27	0
65.79	23.35	64.92	0
66.07	25.65	49.71	0
66.11	8.46	16.09	0
66.47	18.38	41.07	0
66.5	35.82	32.45	0
66.69	16.71	44.11	0
66.74	13.37	45.93	0.63
66.85	113.13	51.34	0.72
67.18	13.35	39.84	0
67.36	358.05	28.99	0
67.4	352.91	33.2	0
67.45	328.69	32.77	0
67.72	353.63	17.55	0
67.85	51.39	21.57	0
67.94	349.43	29.96	0
68.41	30.46	38.24	0
69.68	355.88	26.45	0
69.94	31.12	40.84	0
70.25	13.27	22.68	0
70.52	328.22	19.28	0
70.83	274.27	7.56	0
70.99	309.68	17.43	0
71.08	318.71	10.27	0
71.23	269.61	23.1	0
71.3	9.31	23.2	0
71.36	11.59	49	0
71.52	10.92	33.92	0
71.59	279.32	83.96	0
71.63	16.27	28.22	0
71.69	19.87	31.73	0
72.36	55.79	32.16	0
72.38	59.22	30.99	2.75
72.7	11.35	20.19	0
73.71	227.65	42.8	0
74.45	19.68	39.34	0
74.53	337.39	12.12	0
74.9	20.03	41.77	0
75.61	19.44	48.59	0
76.04	15.7	37.08	0
76.23	49.45	76.12	0
76.37	23.58	34.77	0
77.89	0.53	29.88	0
78.01	14.87	36.02	0

Table D12 Fracture orientation and apertures for BL-0143 (Page 3 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
78.21	4.33	35	0
78.26	12.6	34.75	0.87
79.03	11.25	41.36	0
79.19	310.36	14.85	0
79.29	279.59	11.48	0
80.68	245.63	81.91	0
80.93	2.42	39.22	0
81.15	254.85	79.24	0
81.24	359.23	45.14	0
81.74	258.31	70.42	0
81.94	97.24	38.45	0
82.39	124.54	64.29	0
82.66	135.5	64.02	0.62
83.18	13.52	54.27	0
83.36	12.61	48.08	0
84.15	340.59	37.35	0
84.19	277.92	66.54	0
84.32	262.11	68.41	0.92
84.49	266.19	65.22	0
85.07	102.72	71.27	0
85.41	290.39	81.72	0
86.03	350.24	43.93	0
86.21	41	33.72	0
86.4	358.7	38.52	0
86.7	354.08	43.83	0
87.01	324.75	22.54	0
87.62	6.85	30.01	0
87.66	8.18	34.53	0
88.84	312.77	39.44	0
89.6	26.75	54.37	0
89.73	25.02	57.05	0
89.96	36.78	85.4	0
90.16	3.3	41.34	0
90.54	16.73	46.87	0
90.69	14.1	41.25	0
91.4	333.56	45.48	0
91.5	3.67	26.18	0
91.76	19.27	48.46	0
91.89	26.92	48.12	0
91.95	19.41	50.06	0
92.12	0.09	31.15	0
93.04	338.95	26.2	0
94.87	350.67	21.93	0
94.98	10.54	34.28	0
95.13	138.65	79.9	0
95.29	16.92	32.65	0
96.37	26.82	40.65	0
96.73	42.02	37.51	0
97.19	29.52	42.64	0.67
97.3	23.29	45.02	0
98.82	45.37	49.33	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
99.19	21.93	40.46	0
99.67	31.89	72.4	0
99.76	29.31	55.55	0
100.01	9.94	40.13	0
100.74	112.77	73.88	0
100.81	113.26	74.21	0
101.09	116.67	75.48	0
101.31	118.41	75.11	0
102.07	34.66	75.07	0
102.19	29.19	63.31	0
102.73	26.53	51.88	0
103.01	127.08	75.95	0
104.05	17.23	41.97	0
104.64	5.51	34.01	0
104.66	21.11	51.01	0
104.74	209.76	77.25	0
104.91	22.73	39.39	0
107.13	330.9	18.68	0
107.93	22.24	61.73	0
108.04	61.9	31.06	0
108.11	21.36	44.78	0
108.19	29.75	27.66	0
108.43	28.86	45.41	0
108.53	14.61	36.78	0
108.56	5.2	25.59	4.36
108.77	351.3	45.05	0
108.89	131.24	33.7	0
109.4	37.78	83.97	0
111.29	64.48	37.56	0
112.49	17	20.97	0
113.27	355.9	24.62	0
115.29	30.37	75.84	0
116.06	34.74	55.61	0
117.76	329.78	23.33	0
117.8	92.27	61.32	0
118.01	15.16	46.22	0
118.57	34.61	25.89	0
118.89	28.11	15.91	0
119.09	350.61	15.83	0
119.29	32.49	21.59	0
119.31	350.59	57.37	0
119.37	128.89	72.63	0.67
119.38	317.39	12.02	0
119.52	126.64	71.93	0.66
119.74	10.3	13.94	0
120.01	14.11	46.77	0
120.45	323.15	16.4	0
120.58	29.58	53.35	1.7
120.76	352.54	8.44	0
120.88	105.27	26.67	0
121	33.99	14.43	0

Table D12 Fracture orientation and apertures for BL-0143 (Page 4 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
121.12	234	7.22	0
121.72	22.74	56.89	0
122.09	341.09	63.09	0.91
122.63	22.53	35.35	0
124.36	251.74	13.39	0
125.27	141.2	79.12	0
125.88	17.48	58.79	0
126.65	35.76	54.32	0
126.98	110.05	21.46	0
127.13	1.7	46.54	0
127.82	358.28	41.32	0
127.96	39.48	44.89	0
129.04	25.75	27.03	0
129.61	25.01	55.42	0
129.76	26.55	45.87	0
130.29	199.59	28.83	0
130.76	59.18	32.3	0
131.2	49.31	36.9	0
131.24	40.55	26.78	0
131.62	127.35	71.53	1.48
131.75	129.29	73.53	0.33
132.15	301	78.92	0
132.66	43.62	39.67	0
132.8	6.77	41.79	0
133.1	16.27	53.02	0
133.32	201.27	48.19	0
133.41	25.21	24.88	0
133.71	143.74	75	0
135.69	353.35	33.96	0
135.84	47.47	36.01	0
135.95	164.07	73.98	0
136.1	33.41	57.01	0
136.2	29.49	57.54	0
136.32	32.71	59.62	0
137.24	19.25	41.62	0
137.29	22.75	41.8	0
138.01	27.73	58.83	0
139.04	9.21	39.61	0
139.25	9.31	38.48	0
139.4	24.68	55.3	0
140.18	17.78	55.71	0
140.28	17.46	58.26	0
140.48	20.38	61.68	0
140.59	13.32	43.66	0
140.78	21.23	23.33	0
142.76	27.73	30.32	0
142.8	29.35	36.21	0
142.93	27.18	36.41	0
142.95	28.84	37.06	0
143.03	221.57	37.94	0
143.27	6.28	39.73	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
146.08	16.64	42.86	0
146.51	41.44	37.29	0
146.63	28.88	34.23	0
146.71	42.76	33.85	0
146.82	23.22	36.47	0
147.85	38.81	55.26	0
148.27	133.16	73.87	1.38
149.11	132.94	71.62	0
149.33	278.35	68.76	2.48
150.17	46.9	21	0
151.78	1.69	37.23	0
151.87	7.63	29.24	0
152.51	140.2	66.2	0
153.01	32.48	36.68	0
154.26	134.16	65.6	0.54
154.93	15.91	43.98	0
156.17	10.56	42.08	0
156.35	26.54	53.24	0.92
156.82	25.84	40.55	0
157.05	8.18	40.69	0
157.27	39.43	45.89	0
157.68	17.98	34.82	0
157.99	9.42	30.3	0
158.07	14.86	44.18	0
158.73	142.88	25.3	0
159.32	345.66	49.03	0
161.16	200.78	58.56	0
161.42	27.04	46.85	0
161.51	13.67	47.56	0
161.58	129.98	70.42	0
162.05	153.13	40.04	0
162.07	129.86	72.23	0
162.62	28.16	37.44	0
162.71	24.31	37.98	0
163.05	0.09	31.15	0
163.11	3.32	39.15	0
163.33	15.77	49.95	0
164.19	219.25	15.33	0
165.07	326.88	50.17	0
165.91	347.39	25.78	0
166.1	20.44	50.38	0
166.18	21.27	48	0
166.96	188.27	46.65	0
167.99	334.84	17.97	0
168.14	179.45	38.46	0
168.59	158.51	28.04	0
169.39	4.9	38.51	0
170.66	29.36	42.99	0
171.29	11.98	47.47	0
171.55	165.71	27.62	0
172.12	330.75	26.74	0

Table D12 Fracture orientation and apertures for BL-0143 (Page 5 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
173.08	30.26	48.17	0
173.85	137.23	71.09	1.34
174.27	6.39	50.21	0
174.54	7.33	43.67	0
174.63	187.75	75.36	0
174.99	18.81	62.58	0
175.77	14.7	42.34	0
176.16	17.22	54.16	0.92
176.29	24.3	54.09	0.88
176.56	229.1	22.26	0
176.94	349.43	53.7	0
177.2	23.41	56	0
178.8	16.32	47.07	0
178.95	19.33	46.57	0
179.9	7.97	54.61	0
179.97	8.33	54.79	0
180.08	12.37	32.98	0
180.29	219.12	44.31	0
181	207.82	45.33	0
181.27	22.94	55.09	0
181.84	17.19	52.28	0
185.32	14	47.27	0
185.55	30.62	48.34	0
186.06	283.07	65.72	0
186.62	283.64	36.03	0
186.83	33.75	20.28	0
186.94	8.38	42.1	0
186.98	10.14	38.28	0
187.41	35.04	33.92	0
187.67	347.22	19.43	0
187.97	1.45	19.51	0
188.23	16.36	31.31	0
188.94	17.91	48.29	0
189.16	5.9	54.7	0
189.33	13.3	48.72	0
190.16	15.56	51.68	0
190.33	8.85	51.59	0
191.09	32.02	64.14	0
193.23	23.17	38.77	0
193.69	253.95	52.22	0
194.54	18.72	65.62	0
194.97	174.55	71.27	0
195.61	221.22	37.08	0
195.68	231.11	32.88	0
195.95	235.42	81.55	0
196.29	5.66	43.17	0
197.9	12.86	41.6	0
198.26	307.84	65.22	2.05
198.42	12.65	47.33	0
198.95	356.85	64.49	0
198.96	355.22	30.74	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
199.23	351.53	56.8	0
199.6	304.4	43.57	0
199.66	294.91	29.44	0
199.85	145.52	41.06	0
200.85	29.17	20.37	0
201.4	11.71	64.08	0
201.73	17.91	43.29	1.44
201.96	193.2	63.59	0
202.2	292.29	87.87	0
202.82	128.33	82.04	0
202.95	278.76	83.22	0
203.62	272.62	80.91	0
203.87	103.06	45.52	0.77
204.18	165.83	49.58	0
204.2	301.1	84.91	0
204.24	302.4	61.83	0
204.27	17.79	59.75	0
204.46	227.97	80.17	0
204.48	15.67	53.46	0
204.61	9.08	39.79	0
204.62	166.97	74	1.87
204.69	13.42	43.86	0
204.9	19.47	35.73	0
205.05	12.52	40.11	0
205.2	3.63	41.55	0
205.91	0.64	42.15	0
206.1	11.42	47.03	0
206.23	20.85	25.44	0
206.95	14.41	32.26	0
207.09	9.66	14.62	0
207.78	213.72	55.01	0
209.51	206.24	53.1	0
209.73	20.9	47.8	0
209.98	157.82	44.78	0
211.04	220.61	73.27	0
211.58	16.38	55.94	0
212.26	12.98	51.15	0
212.73	13.48	44.59	0
212.84	10.63	46.27	0
213.82	15.03	50.73	0
214.12	247.71	53.79	0
214.56	341.15	17.37	0
215.01	1.08	44.51	0
215.2	29.53	33.22	0
215.32	21.11	22.85	0
215.36	39.95	42.76	0
215.53	253.28	54.58	0
215.59	24.65	49.08	0
215.88	45.12	32.1	0
216.11	233.14	66.03	0
216.14	23.01	45.41	0

Table D12 Fracture orientation and apertures for BL-0143 (Page 6 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
216.24	41.79	42.33	0
216.39	22.32	46.52	1.89
217.14	28.72	63.51	0
217.36	29.71	63.68	0
217.73	22.37	66.2	0
218.1	16.42	36.85	0
218.38	31.72	30.01	0
218.5	11.8	28.8	0
218.66	15.09	29.45	0
218.75	25.56	43.94	0
219.24	25.2	58.39	0
219.25	348.43	64.67	0
219.49	158.1	75.4	0
219.49	288.75	62.84	0
220.09	164.46	68.08	0
220.53	284.02	58.76	2.02
220.95	28.76	53.94	0
221.4	359.44	34.88	0
221.65	26.34	51.15	0
221.75	32.04	53.37	0
222.38	31.88	47.34	0
222.42	30.1	45.72	0
222.62	324.8	13.29	0
222.75	25.18	48.83	0
223.7	20.95	41.23	0
224.27	15.14	44.51	0
224.77	25.24	53.29	0
225.49	20.36	54.52	0
225.71	12.44	42.2	0
225.9	21.94	42.95	0
226.15	13.74	37.38	0
226.49	5.17	52.31	0
226.84	30.74	56.53	0
227.3	18.22	46.38	0
227.4	24.26	57.07	0
228.53	21.09	54.6	0
228.76	29.59	57.45	0
229.55	10.18	50.28	0
229.62	4.13	45.55	0
230.04	107.38	50.88	0
230.34	21.29	35.14	0
230.4	5.38	26.35	0
230.84	15.09	50.86	0
231.21	10.62	48.9	0
231.91	144.96	66.88	1.8
232.09	27.02	52.22	0
232.23	13.96	46.26	0
232.42	128.9	76.35	0
233.21	28.46	55.18	0
233.73	30.83	58.51	0
233.83	29.83	58.67	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
234.02	34.2	50.76	0
234.16	40.57	44.8	0
234.58	17.79	24.24	0
234.74	28.09	43.74	0
234.92	16.7	45.99	0
235.02	19.47	36.62	0
235.43	25.62	46.61	0
235.85	13.69	44.7	0
235.95	173.08	89.5	0.88
236.05	11.86	50.41	0
236.42	22.23	31.61	0
237.09	23.85	38.13	0
237.47	343.37	35.33	0
237.89	22.06	40.39	0
238	4.54	44.32	0
238.31	21.22	43	0
240.53	23.24	42.37	0
241.29	26.35	27.52	0
241.55	354.59	31.88	0
241.74	26.95	48.8	0
242.05	12.96	39.97	0
242.19	15.48	43.57	0
242.24	17.89	44.24	0
242.36	5.25	35.28	0
242.6	0.59	34.07	0
242.7	15.83	39.8	0
242.75	13.15	40.07	0
244.35	17.41	46.93	0
244.71	1.77	48.24	0
244.92	13.84	47.9	0
245.22	36.1	55.19	0
245.52	6.18	61.71	1.01
245.75	3.51	43.54	0
246.56	22.52	49.44	0
247.49	15.66	53.25	0
247.53	16.17	50.03	0
248.74	18.38	45.87	0
249.15	44.35	58.44	0
249.31	33.67	55.31	0
249.41	33.42	49.45	0.54
250.5	352.54	37.2	0
250.95	11.12	51.69	0
251.39	20.02	37.73	0
252.06	32.34	46.95	0
252.3	21.67	33.04	0
254.73	24.76	38.5	0
254.75	16	30.83	0
255.56	36.02	44.56	0
255.98	29.36	64.13	0
256.3	7.15	41.59	0
256.54	25.15	44.62	2.02

Table D12 Fracture orientation and apertures for BL-0143 (Page 7 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
257.62	23.96	45.86	0
258.62	303.13	82.84	0.66
258.84	23.84	50.89	0
259.99	34.65	48.93	0
260.29	274.99	60.53	0
261.88	23.49	46.76	0
261.96	173.83	87.04	0
263.79	19.83	32.77	0
263.85	5.78	36.8	0
264.82	19.61	25.13	0
264.92	357.34	29.44	0
265.51	304.73	60.29	0
267.16	307.93	61.78	0
269.1	76.43	36.56	0
269.1	281.45	55.96	0
270.6	184.13	71.97	0
271.93	110.99	7.24	0
271.94	300.63	87.24	1.75
272.6	16.8	34.36	0
274.48	225.61	48.19	0
274.71	18.77	25.79	0
275.62	52.25	54.1	0
276.65	269.66	88.75	0.87
279.08	273.65	1.8	0
279.15	37.3	21.49	0
280.55	29.07	23.34	0
281.11	17.04	26.01	2.16
281.19	25.34	29.61	0
281.41	338.99	15.67	0
282.27	71.3	19.92	0
283.2	66.97	48.04	0
283.32	14.86	26.31	0
283.75	43.92	30.79	0
284.49	3.78	32.88	0
285.12	141.89	47.71	0
285.47	48.99	39.01	0
285.56	266.58	74.04	1.54
287.22	40.5	37.92	0
288.75	35.82	34.83	0
289.01	12.01	40.4	0
289.36	190.13	66.77	0
290.18	341.2	21.35	0
290.32	356.64	21.97	0
290.37	0.1	37.09	0
291.26	65.53	40.54	0
291.35	110.9	50.57	0
291.83	61.58	28.68	0
292.23	26.08	44.45	0
292.38	50.83	42.84	0
292.43	198.82	66.9	0
293.78	118.44	27.76	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
294.11	50.54	48.38	0
294.38	57.31	51.5	0
294.9	211.89	57.66	0
307.89	12.62	49.19	0
308.04	271.44	84.68	2.24
308.07	40.5	34.94	0
308.26	36.83	49.27	0
308.3	28.34	44.79	0
308.62	24.89	65.58	0
310.85	52.65	16.15	0
311.07	146.99	83.99	0
311.25	277.91	63.12	0
312.19	143.46	53.65	0
312.74	355.67	40.12	0
313.2	346.87	16.51	0
314.38	6.91	38.59	0
315.01	9.71	34.31	0
315.04	2.58	35.79	0
315.68	15.54	45.05	0
316.58	38.43	86.74	0
316.61	157.36	70.17	0
317.92	25.61	37.55	0
318.53	144.96	58.44	0
318.75	148.06	63.3	2.04
319.24	271.64	70.82	0.88
320.32	260.74	76.77	0.79
320.55	130.4	56.19	0
322.69	123.2	66.2	1.18
322.78	44.98	51.88	0
323.13	28.67	58.56	0.63
323.24	286.25	82.37	0
323.4	30.78	60.2	0.27
324.98	28.74	50.43	0
325.15	34.6	55.1	0
325.16	32.67	39.36	0
325.18	252.72	56.73	0
325.23	34.09	53.73	0
325.72	30.41	60.25	1.91
326	26.09	47.65	0
326.42	25.04	47.35	0
328.64	26.05	57.84	0
330.84	1.65	22.38	0
332.43	31.68	29.54	0
332.67	27.11	54	0
333.45	119.7	27.46	0
333.97	157.75	56.77	0
336.11	129.13	71.41	0
336.17	33.7	28.39	0
336.67	31.16	28.84	0
337.38	292.44	84.97	0
337.67	32.65	45.88	0

Table D12 Fracture orientation and apertures for BL-0143 (Page 8 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
337.73	218.01	13.87	0
338.1	228.96	45.58	0
338.29	242.88	73.19	0
338.62	50.13	32.7	0
338.66	225.43	49.9	0
340.26	218.27	13.66	0
340.55	17.26	31.23	0
343.11	128.58	35.6	0
343.85	33.64	34.49	0
343.94	120.68	28.83	0
345.23	13.93	32.32	0
345.55	9.19	21.11	0
345.61	20.04	61.89	0
346.23	13.63	37.45	0
346.31	9.03	29.71	0
346.47	177.12	47.06	0
346.51	15.95	40.66	0
347.1	182.43	32.91	0
347.87	11.36	47.08	0
349.7	118.86	31.56	0
350.14	13.82	44.33	0
350.62	353.9	36.67	0
351.05	71.08	18.47	0
351.48	359.84	32.12	0
352.2	13.2	20.58	0
352.61	27.73	31.65	0
353.14	229.83	32.88	0
353.84	19.38	43.99	0
353.87	25.33	41.23	0
354.4	4.15	48.73	0
354.43	21.44	40.19	0
354.51	2.26	40.41	0
355.47	21.73	15.02	0
355.58	22.77	21.06	0
355.67	29.44	49.57	0
356.58	12.29	35.57	0
357.05	23.37	46.67	0
357.08	19.58	43.33	0
357.27	22.91	33	0.96
357.51	262.54	87.38	1.04
357.82	22.65	38.57	0
360.16	13.75	44.29	1.45
360.56	214.72	74.6	0
361.02	139	49.52	0
361.47	212.97	79.18	0
361.91	267.06	81.71	0
361.96	191.84	74	0
362.21	27.73	56.42	0
362.64	10.16	47.39	3.45
362.75	21.74	58.74	0
362.8	206.56	76.97	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
362.85	204.22	76.47	0
362.9	27.15	58.45	0
363.22	8.72	45.17	1.49
364.2	27.9	37.02	0
364.51	215.56	88.92	0
366.14	55.3	50.85	0
368.53	220.52	62.49	0
369.19	137.81	5.16	0
369.38	207.74	41.11	0
372.12	15.41	28.63	0
372.19	16.14	29.46	0
373.37	27.85	28.91	0
373.43	220.28	54.19	0
375.18	205.92	63.86	0
377.54	270.42	59.17	0
377.55	80.17	26.46	0
377.97	160.71	23.97	0
378.32	145.12	13.34	0
378.36	186.28	30.97	0
378.74	27.26	48.78	0
379.13	18.3	29.94	0
379.26	67.72	23.24	0
379.31	68.86	26.28	0
379.59	256.92	73.87	0
383.6	16	38.24	0
383.64	19.18	35.33	0
384.42	15.22	33.51	0
384.57	19.36	27.75	0
384.67	11.54	23.97	0
388.62	170.97	26.2	0
389.31	217.7	76.26	0
389.4	221.51	50.62	0
389.49	199.51	71.44	0
391.51	357.62	33.81	0
392.17	31.87	26.83	0
393.04	327.45	14.17	0
393.32	258.99	3.01	0
393.76	197.79	44.58	0
394.07	342.39	10	0
394.44	20.38	39.79	0
394.5	0.81	21.19	0
395.87	311.91	69.17	0
396.71	30.49	9.91	0
398.46	24.5	12.65	0
399.73	284.11	10.52	0
400.35	181.59	19.06	0
400.93	150.67	38.09	0
401.23	191.56	18.52	0
401.39	256.5	67.9	0
402.15	45.17	18.95	0
402.66	317.49	11.01	0

Table D12 Fracture orientation and apertures for BL-0143 (Page 9 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
403.17	319.13	71.48	0
407.08	22.18	40.81	0
408.38	41.37	22.1	0
408.86	30.45	32.11	0
409.09	36.65	30.92	0
409.81	244.98	62.07	0
410.08	13.52	53.52	0
412.11	38.36	11.32	0
412.36	18.8	6.92	0
412.53	44.47	22.68	0
413.02	41.85	40.06	0
413.07	31.45	45.08	0
414.19	55.38	28.62	0
414.85	17.1	31.97	0
415.14	34.04	12.73	0
415.86	106.64	9.43	0
416.37	16	10.94	0
416.92	288.34	12.81	0
417.62	49.06	34.99	0
417.69	53.03	33.01	0
418.23	27.1	44.86	0
418.76	16.83	44.49	0
418.83	30.04	43.55	0
418.89	20.62	36.78	0
418.96	69.76	30.87	0
418.99	94.26	21.4	0
419.13	37.91	44.58	0
419.31	65.71	19.58	0
419.41	41.35	25.55	0
419.56	165.36	35.08	0
419.62	75.8	18.8	0
419.97	28.84	20.59	0
420.1	216.78	7.56	0
420.19	49.6	13.92	0
420.29	8.45	45.07	0
420.34	40.54	33.99	0
420.37	36.11	43.22	0
420.58	44.01	26.45	0
420.64	19.27	40.97	0
420.77	42.24	29.1	0
420.88	36.33	29.05	0
421.02	39.29	27.72	0
421.35	37.28	38.94	0
421.4	26.37	39.44	0
422.02	36.47	28.96	0
422.63	31.4	28.53	0
423.4	20.05	36.64	0
424.02	17.85	20.47	0
424.55	13.19	26.89	0
424.76	15.36	41.52	0
425.31	16.08	46.76	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
425.49	341.3	54.06	0
425.93	22.09	45.46	0
426.17	33.85	42.39	0
427.12	180.47	28.01	0
427.42	315.85	11.6	0
428.09	10.91	27.4	0
428.15	12.07	38.42	0
432.46	348.83	47.84	0
432.74	37.09	30.26	0
435.43	29.71	40.85	0
435.58	20.73	44.73	0
438.57	58.32	37.11	0
441.9	27.44	35.9	0
445.14	223.42	32.69	0
448.25	4.36	39.54	0
448.77	340.59	76.41	0
449.72	92.82	37.33	0
450.23	37.98	53.52	0
450.38	20.13	58.5	0
451.16	180.16	73.39	0
451.32	144.64	51.81	0
452.45	167.34	42.17	0
454.62	27.06	43.23	0
455.03	27.77	53.39	0
458.02	15.47	33.36	0
458.05	32.92	28.99	0
459.16	21.49	44.52	0.77
459.97	26.44	25.13	0
460.17	75.26	51.61	0
464.24	27.43	50.99	0
464.99	31.22	7.12	0
466.04	347.83	22.06	0
467.7	238.97	78.96	0
468.35	40.41	50.76	0
470.11	23.28	24.34	0
470.16	31.83	24.39	0
470.27	56.11	37.55	0
470.81	240.11	30.38	0
470.86	222.88	26.09	0
471.39	59.37	29.7	0
471.49	50.26	37.92	0
472.23	41.06	45.36	0
472.65	236.71	54.3	0
474.67	50.74	49.88	24.72
475.15	70.58	40.49	0
475.22	5.93	27.41	0
478.01	47.76	26.17	0
479.62	10.43	45.6	0
480.03	9.15	58.75	0
480.55	24.35	49.75	0
481.23	13.65	43.45	0

Table D12 Fracture orientation and apertures for BL-0143 (Page 10 of 10).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
481.31	25.89	35.1	0
481.45	45.8	18.27	4.85
481.48	160.97	14.38	4.2
481.84	144.1	30.91	0
End			

Table D13 Fracture orientation and apertures for BL-0219 (Page 1 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
8.35	13	50.82	6.1
8.58	160.91	46.45	0
8.6	25.66	61.87	0
8.82	182.79	28.54	0
9.22	151.82	60.04	0
9.36	27.3	66.19	0
9.37	20.93	48.87	0
9.4	31.68	67.37	0
9.43	259.01	37.49	3.18
9.57	85.54	55.76	0
9.78	61.14	62.35	0
9.81	53.59	63.21	0
10.1	347.89	80.2	0
10.31	32.7	29.41	0
10.42	35.47	66	0
10.55	8.2	52.72	0
10.57	241.85	18.03	0
10.75	302.93	36.08	0
10.92	268.38	41.78	0
11.21	323.21	24.16	0
12.18	26.33	64.43	0
12.38	280.98	25.44	0
12.53	260.82	13	4.19
13.7	17.2	44.74	0
14.48	1.4	30.35	0
14.66	358.95	39.56	0
15.07	350.06	60.07	0
15.18	166.78	73.33	0
15.48	15.5	23.01	0
15.49	249.75	38.09	0
15.64	326.27	43.55	0
16.2	15.01	58.52	2.01
16.23	10.32	57.95	0
16.28	4.3	51.35	0
16.32	359.46	45.87	0
16.37	330.75	28.93	0
16.42	221.69	41.93	0
16.96	18.11	69.58	2.32
17.01	22.09	68.64	0
17.17	236.43	63.6	0
17.31	255.06	63.14	0
17.51	28.82	49.82	0
17.57	265.68	19.72	0
17.95	190.44	18.43	0
18.36	286.36	69	0
18.65	235.36	25.17	2.46
18.67	16.2	71.45	1.46
19.99	7.35	55.92	0
20.25	12.85	57.63	0
20.55	114.18	28.81	1.29
20.59	344.8	69.28	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
20.67	358.49	68.31	0
20.72	345.05	26.76	2.83
20.78	7.73	51.74	10.09
20.82	357.74	49.65	0
21.7	352.37	79.22	49.62
22.65	196.83	4.86	0
23.57	125.36	10.02	0
24.28	23.25	23.52	0
24.3	34.1	71.01	0.74
24.63	19.86	77.11	0
24.69	138.3	65.46	0
25.37	321.56	19.98	0
25.47	359.31	45.49	0
25.77	40.07	81.62	0
26.78	336.23	35.49	0
26.97	4.01	40.75	0
27.02	352.01	42.57	0
28.4	302.72	15.36	0
28.49	350.49	39.21	0
28.68	347.82	70.46	0
28.78	164.29	25.9	0
28.81	356.83	55.36	0
28.95	327.61	57.59	0
29.16	36.88	49.94	0
29.46	345.1	17.94	0
29.99	253.55	51.62	0
30.37	25.98	50.33	0
30.74	351.72	48.71	0
31.11	212.71	26.07	0
31.31	19.68	62.01	0
31.37	19.75	58.48	0
31.47	19.7	41.18	0
31.9	354.48	29.81	0
31.91	356.21	70.94	0
32.13	13.15	51.19	0
32.3	95.23	40.18	0
32.79	337.95	41.63	0
32.9	182.99	4.05	0
32.99	337.79	57.54	0
33.91	140.71	8.85	0
33.96	96.33	15.39	0
34.11	173.61	25.08	0
34.18	163.14	26.28	0
34.51	165.63	46.73	0
34.57	7.65	70	0
35.05	16.25	69.54	0
35.14	110.61	22.63	4.07
35.22	26.83	46.18	0
35.71	15.58	57.42	0
36.08	2.84	46.46	0
36.14	269.81	54.4	0

Table D13 Fracture orientation and apertures for BL-0219 (Page 2 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
36.21	349.78	37.94	0
36.57	4.32	68.29	0
36.81	358.18	53.42	0
36.95	307.67	31.73	0
37.17	334.19	44.5	2.39
37.23	14.13	60.01	0
37.8	220.36	55.03	1.91
37.84	330.76	39.32	0
37.88	171.91	43.93	2.66
37.94	313.22	23.86	0
38.21	332.83	58.86	0
38.33	341.46	35.68	0
38.46	179.46	17.77	0
38.72	359.1	45.89	0
38.77	344.37	49.19	0
38.93	356.18	51.82	0
39.11	349.46	51.01	0
39.18	72.18	81.86	0.73
39.19	148.54	25.38	0
39.22	359.27	53.72	0
39.25	8.83	43.3	0
39.38	174.13	37.23	2.04
39.41	96.06	70.49	0.54
39.56	307.89	33.68	0
39.67	347.97	54.1	1.06
39.96	31.54	66.45	0
40.09	353.59	59.76	0
40.16	167.37	44.93	0
40.22	351.15	34.43	0
40.5	290.34	14.54	0
40.8	317.2	31.1	1.33
40.88	4.42	61.21	0
41.12	165.71	42.78	0
41.15	5.24	56.91	14.47
41.19	5.53	56.4	0
41.39	336.18	63.95	0
41.6	316.58	39.58	0
41.72	16.6	47.79	0
41.73	286.24	34.84	0
41.9	351.39	45.12	0
41.9	237.72	61.02	0
41.94	10.55	45.25	0
42.01	341.71	52.23	0
42.08	322.56	65.98	0
42.29	271.17	36.96	2.26
42.38	335.45	39.08	0
42.41	351.26	43.42	0
42.44	356.43	42.54	0
42.46	12.08	49.83	0
42.53	42.6	33.13	0
42.63	318.8	44.04	0
42.73	328.86	28.81	0
42.8	320.98	32.07	2.67
42.88	322.17	57.42	1.87
42.96	346.57	52.3	0
42.99	352.17	41.16	0
43.04	344.25	47.84	0
43.25	293.38	25.73	0
43.48	298.65	31.54	2.58
43.57	141.95	13.45	2.79
43.76	17.37	26.3	0
43.8	355.97	22.37	0
43.87	6.14	55.76	0
43.92	2.74	60	0
44.21	58.86	69.25	2.15
44.26	122.38	46.09	0
44.39	323.32	39.91	2.48
44.55	66.23	86.77	0
44.6	355.46	27.29	0
44.67	313.88	34.13	0
44.7	28.16	57.29	0
44.81	271.09	25.76	0
44.87	348.9	37.94	0
45.05	232.23	41.94	0
45.11	354.36	27.67	0
45.2	15	72.19	0
45.27	28.07	60.1	0
45.35	345.28	60.63	0
45.42	320.8	44.44	0
45.46	352.14	52.81	0
45.72	351.62	21.69	0
45.8	322.91	32.81	0
45.84	305.53	32.29	0
45.88	296.18	30.45	0
45.95	338.8	61.93	0
46.16	322.32	43.54	0
46.18	192.55	52.99	0
46.26	2.6	70.92	0
46.43	349.36	74.84	0
46.46	202.83	52.06	0
46.53	351.53	64.79	0
46.62	352.58	42	0
46.67	356.63	33.18	0
46.69	0.07	41.45	0
46.7	215.16	14.35	2.72
46.88	344.85	43.36	0
46.93	357.11	42.88	0
46.99	342.3	42.2	0
47.01	339.32	36.69	0
47.06	356.71	58.49	0
47.1	347.09	33.07	0
47.18	338.34	32.75	0

Table D13 Fracture orientation and apertures for BL-0219 (Page 3 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
47.21	338.62	31.58	0
47.28	353.6	40.49	18.05
47.34	2.37	70.35	2.26
47.4	356.43	58.4	0
47.45	16.51	65.61	0
47.53	13.97	68.26	0
47.54	169.13	65.77	0
47.59	0.82	66.82	0
47.63	353.31	70.54	0
47.68	354.26	73.6	0
48.01	357.55	64.26	0
48.08	358.98	72.73	0
48.09	340.44	45.06	0
48.21	3.68	62.53	0
48.27	335.63	59.78	0
48.51	305.71	67.29	0
48.72	328.95	54.66	0
48.76	345.01	51.91	0
48.99	357.66	58.53	0
49.48	7.53	70.9	2.98
49.6	16.76	67.83	1.64
49.65	9.52	64.6	0
49.8	340.86	53.27	0
49.89	307.79	55.72	0
50.13	18.39	67.37	0
50.35	12.03	41.84	0
50.39	25.29	54.07	0
50.47	3.56	70.56	0
50.52	15.6	75.89	0
50.65	24.34	60.87	0
50.71	26.22	51.51	0
50.75	37.92	48.54	0
50.97	29.25	42.76	0
51	46.12	44.52	0
51.06	150.74	9.59	0
51.27	196.67	5.62	0
51.79	276.58	14.65	12.56
51.9	190.1	41.15	0.93
51.92	321.42	43.5	1.18
52.43	356.54	42.1	0
52.53	344.52	20.29	0
52.77	358.06	42.79	1.26
52.8	334.44	31.94	2.72
53.73	345.56	30.34	0
54.35	80.67	72.3	0
54.69	131.29	76.17	0
54.75	280.21	17.28	1.4
54.77	340.65	36.43	0
54.84	318.91	39.76	0
55.03	283.03	52.33	0
55.07	307.55	31.42	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
55.22	301.97	51	0
55.74	331.56	60.92	0
56.77	332.22	59.11	0
56.86	336.98	61.35	0
57.12	330.32	47.26	0
57.29	338.24	59.78	0
57.73	337.94	56.03	0
57.79	336.37	45.64	0
57.82	341.97	46.69	0
57.89	7.92	43.52	0
58.47	28.04	87.82	0
58.62	84.04	33.01	0
58.87	141.11	39.42	0
59.22	266.02	21.89	0
59.25	269.75	43.67	0
59.95	312.22	19.8	0
60.38	336.26	86.85	0
60.57	348.11	75.23	0
61.04	310.06	42.13	0
61.14	346.54	48.56	0
61.23	348.98	47.24	0
61.28	342.58	47.24	0
61.33	351.12	62.07	0
61.87	270.57	25.67	2.58
62.3	19.71	41.21	1.3
62.34	0.43	49.36	0
62.42	24.44	49.97	0
62.5	354.24	48.66	2.34
62.76	196.07	23.97	0
62.93	356.01	30.97	0
62.96	11.64	48.96	1.18
62.98	28.53	57.06	0
63.33	41.36	67.64	0
63.66	49.39	31	0
63.68	12.22	36.15	0
64.58	317.52	32.9	0
64.72	66.33	44.53	0
64.77	182.66	53.27	0
65.06	282.43	49.05	0
65.13	289.24	54.57	0
65.4	358.62	32.41	0
65.54	355.52	37.34	0
65.71	86.03	39.74	0
65.84	9.04	49.3	0
66.02	77.39	41.57	2.4
66.42	292.47	55.64	0
66.54	152.86	25.85	0
66.76	0.2	34.11	0
67.01	29.03	53.91	0
67.19	354.15	36.3	0
67.63	353.83	31.91	0

Table D13 Fracture orientation and apertures for BL-0219 (Page 4 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
67.87	108.92	28.91	0
68.88	337.52	42.63	0
69.09	170.57	13.91	0
69.21	354.64	23.44	0
69.6	75.57	48.55	3.27
69.75	270.32	28.96	0
70.02	286.41	60.36	0
70.31	40.7	51.81	0
71.31	11.59	38.76	0
71.38	354.24	37.51	0
71.41	151.61	77.67	0
72.44	12.8	69.85	0
72.53	1.84	65.28	0
72.58	331.37	48.62	2.26
73.01	142.27	23.86	3.83
73.06	164.44	53.37	0
73.09	186.29	26.5	0
73.16	278.81	34.62	2.37
73.2	211.98	27.87	0
73.21	15.52	75.63	0
73.62	14.15	49.81	0
73.88	10.36	59.71	0
74.25	312.74	36.66	0
74.82	153.4	30.86	3.46
75.71	10.7	39.06	0
75.99	29.57	36.58	4.07
76.13	7.39	46.48	0
76.41	96.51	37.84	0
77.64	199.86	36.29	0
77.75	170.53	68.29	0
78.92	170.49	48.71	1.54
79.42	185.74	58.06	0
79.52	197.16	58.87	0
79.81	189.75	59.48	0
80.45	45.41	34.84	1.36
80.55	198.36	36.97	0
81.15	172.38	21.19	0
81.63	255.89	45.28	0.92
81.91	173.17	35.5	0
82.46	20.78	44	0
82.5	179.35	48.44	0
82.53	168.06	45.19	2.55
82.98	31.15	54.67	0
84.27	35.09	28.89	0
84.46	95.56	12.95	0
84.59	40.37	35.07	0
84.74	39.36	44.91	0
84.81	32.41	51.56	0
86.11	142.26	79.08	0
86.96	17.07	63.37	0
87.09	339.83	67.67	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
88.3	354.21	43.42	0
88.61	307.35	26.12	4.08
88.68	320.03	27.63	2.85
88.8	308.99	46.1	0
91.01	357.33	55.21	0
91.07	353.84	52.7	0
91.2	215.79	18.81	0
91.69	35.21	59.16	0
91.84	258.69	34.21	1.13
91.91	338.03	47.54	0
92.06	312.46	48.43	0
92.59	167.02	44.19	0
92.72	9.49	21.96	0
92.78	22.31	29.55	0
93.03	1.52	62.72	0
93.12	335.82	30.85	0
93.36	15.9	44.1	0
93.51	311.14	33.2	0
93.55	270.06	17.02	0
94.21	5.66	23.81	0
94.23	103.01	17.02	2.82
94.68	112.3	38.87	0
95.44	357.71	31.37	0
95.61	357.2	55.68	0
95.73	5.5	64.75	0
96.95	358.17	47.88	2.39
97.25	1.57	36.47	0
99.4	334.81	68.49	0
99.51	314.49	51.59	0
99.77	345.06	42.44	0
100.71	7.58	51.16	0
100.86	7.5	50.35	0
101.2	24.94	64.79	0
101.63	6.69	40.53	0
101.87	123.64	16.86	0
101.99	327.08	42.06	0
102.02	6.61	36.69	0
102.25	147.45	40.83	1.97
102.32	173.17	33.66	0
102.34	152.76	42.38	0
102.97	137.25	52.63	1.53
103.02	135.13	48.24	0
103.14	152.35	44.87	0
103.78	144.83	45.96	0
104.02	99.88	49.16	0
104.09	3.56	27.37	0
104.3	308.63	51.22	0
104.7	79.79	48.89	0
104.81	89.42	58.27	0
104.98	142.06	66.83	0
105.05	151.38	60.63	0

Table D13 Fracture orientation and apertures for BL-0219 (Page 5 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
105.93	166.58	35.81	0
106.54	61.68	50.86	2.19
106.65	8.89	44.96	0
106.89	53.53	43.91	0
107.3	67.36	29.07	0
107.37	41.6	60.64	0
107.41	64.81	56.92	0
107.89	153.6	47.93	0.82
108.07	51.43	51.49	0
108.12	82.22	58.55	0
108.33	59.06	49.32	4.52
108.34	338.94	63.08	0
108.41	96.69	65.64	0
108.48	34.45	58.87	0
108.62	294.64	74.77	0
108.89	47.61	74.22	0
109.11	67.81	66.77	0
109.21	66.21	75.51	0
109.59	41.82	29.97	0
109.96	2.75	46.21	0
110.09	79.03	40.51	0
110.11	75.76	49.78	0
110.24	69.58	67.58	0
110.36	48.62	65.1	0
110.43	67.03	65.57	0
110.5	71.34	69.06	0
110.73	74.22	66.33	0
110.97	61.72	73.87	0
111.09	336.77	56.47	2.06
111.12	333.75	34.6	2.67
111.14	319.03	39.53	0
111.18	328.41	56.15	4.92
111.21	326.02	53.95	0
111.31	327.51	66.05	0.78
111.38	38.91	38.4	0
111.39	315.57	66.91	0
111.44	323.59	68.98	1.39
111.62	71.76	71.04	0
111.97	268.77	78.83	0
112.02	26.09	52.97	0
112.2	12.39	22.99	0
112.66	84.94	67.14	0
112.67	97.8	23.33	0
112.98	47.98	71.68	0
113.11	33.63	68.6	0
113.15	45.86	56.9	0
113.17	28.95	63.31	0
113.31	87.58	76.64	0
113.33	74.66	49.35	0
113.55	31.14	63.27	0
113.95	60.54	57.1	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
113.98	60.66	56.89	0
114.18	48.85	61.72	0
114.37	38.66	29.17	0
114.64	41.83	34.14	0
114.75	174.46	48.42	0
114.87	69.52	43.73	0
114.99	252.42	43.87	0
115.05	86.33	41.99	0
115.17	41.12	42.37	0
115.47	42.69	59.64	0
115.54	25.15	46.58	0
115.58	11.74	30.85	0
115.64	29.89	58.72	0
115.69	45.67	54.63	0
115.76	60.1	42.97	0
116.11	128.31	68.7	0
116.14	359.58	21.46	0
116.34	307.27	81.53	0
116.94	56.42	60.5	4.63
116.97	56.52	61.65	0.9
117.02	71.88	59	0
117.24	33.19	32.53	0
117.52	320.97	26.67	0
117.59	46.56	38.81	0
117.67	61.03	59.5	0
117.9	309.56	68.39	0
117.98	289.57	58.55	0
118.2	359.01	69.93	0
119.5	96.04	61.62	0
119.69	100.68	82.69	0
120.01	5.47	72.87	0
121.47	103.73	14.65	0
122.05	45.42	50.27	0
122.15	59.95	74.01	0
122.71	146.96	40.79	0
122.77	88.68	21.44	0
123.18	35.53	29.76	0
123.35	295.32	53.36	0
123.56	323.4	14.3	0
123.64	2.35	31.08	0
123.82	298.87	55.31	0
124.01	306.64	23.26	0
124.22	284.7	45.4	0
124.44	319.15	40.15	0
124.69	40.46	41.81	0
124.81	312.12	39.41	0
124.84	69.87	12.96	0
125.3	19.28	77.38	0
125.44	12.57	68.74	0
125.54	12.55	85.39	0
126.08	38.28	39.92	0

Table D13 Fracture orientation and apertures for BL-0219 (Page 6 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
126.11	357.81	84.65	0
126.29	24.54	76.33	1.27
126.58	331.05	42.09	0
126.8	12.79	68.11	0
126.93	61.45	69.18	0
127.55	226.08	50.5	0
127.62	326.51	37.55	2.57
128.67	258	20.11	0
128.7	241.48	23.35	2.54
128.72	253.07	18.07	0
128.91	199.68	38.1	4.87
129.6	23.79	65.36	0
132.31	322.45	49.86	0
132.74	18.42	52.37	0
132.77	356.6	28.45	0
133.18	311.44	48.27	0
136.27	350.08	33.81	2.74
137.28	334.57	32.08	0
137.59	6.97	52.01	2.28
137.94	164.78	27.23	2.37
138.18	298.46	25.37	0
138.43	1.04	32.69	0
138.84	353.23	47.04	0
138.88	19.59	51.34	0
139.04	3.1	72.33	0
139.26	271.95	26.41	0
139.34	10.49	51.64	0
139.52	22.44	52.77	2.25
139.59	12.89	48.09	0
139.6	1.27	36.65	2.7
139.62	4.57	52.37	1.14
139.65	8.81	52.4	0
139.67	25.51	54.16	2.19
139.76	7.42	61.3	0
139.85	24.43	80.72	0
140	9.02	52.82	0
140.06	7.92	58.39	0
140.25	14.4	44.81	0
140.28	15.76	49.8	0
140.44	13.38	53.27	0
140.8	13.48	58.28	0
140.86	15.37	51.33	0
140.93	9.23	56.79	0
141.09	13.97	61.52	0
141.35	11.9	55.18	0
141.94	177.05	14.53	0
142.24	355.32	68.05	0
142.29	12.79	69.71	0
142.85	15.37	47.47	0
143.03	10.22	60.82	0
143.31	13.34	71.17	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
143.53	22.5	59.23	0
143.6	12.76	57.96	0
143.73	20.3	53.97	0
143.83	15.32	54.97	0
143.93	357.93	61.85	0
144.02	7.71	61.93	0
144.4	3.77	57.56	0
144.55	20.34	56.36	0
End			

Table D14 Fracture orientation and apertures for BL-0226 (Page 1 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
9.46	323.37	49.96	0
9.54	338.93	33.34	0
9.7	7.42	40.61	0
9.86	5.06	52.57	0
9.88	7.55	49.34	1.24
10.02	10.37	37.17	0
10.21	355.85	34.46	0
10.38	22.82	61.95	0.97
10.5	14.34	32.9	0
10.71	1.9	43.26	0
10.81	4.83	52.67	0
10.98	326.84	76.95	0
11.12	21.17	67.81	0
11.43	286.01	53.09	1.56
12.42	314.13	34.57	0
12.45	337.27	36.12	0
12.52	349.24	47.94	0
12.63	322.67	21.87	0
12.72	232.2	22.45	0
12.82	6.6	36.75	0
12.87	341.35	33.03	0
13.25	299.9	36.42	0
13.39	97.2	36.76	0
13.51	183.57	36.17	0
13.54	341.92	56.9	0
13.7	201.12	36.53	0
13.71	14.88	45.24	0
13.79	10.37	33.91	0
14.43	27.99	77.82	0
14.66	356.34	33.8	0
15	344.53	44.95	0
15.14	25.41	52.39	0
15.3	286.51	54.29	0
15.38	354.28	38.94	0
15.63	34.34	64.91	0
16.4	9.75	39.23	0
16.52	352.15	36.25	0
16.76	312.26	36.89	0
16.97	337.04	47.92	0
17.18	16.06	43.43	0
17.28	340.24	27.84	0
17.49	7.81	47.3	0
17.51	7.09	52.73	0
17.57	6.87	53.21	0
17.62	356.62	39.99	0
17.87	11.34	79.03	1.2
17.93	3.24	60.48	0
18.08	358.63	46.2	0
18.32	331.79	31.57	0
18.46	357.03	81	0
19.03	339.22	31.51	2.74

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
19.29	359.04	33.96	0
19.31	4.19	30.67	0
19.36	0.46	61.55	0
19.64	5.91	56.83	0
19.66	3.7	49.31	0
19.86	343.65	21.73	0
20.15	13.45	50.76	0
21	350.8	58.22	0
21.78	353.52	45.82	0
22.45	301.95	44.2	0
22.78	354.8	40.05	0
22.9	324.02	42.5	0
22.98	345.43	40.7	3.87
23.22	314.37	34.86	0
23.63	321.5	46.48	0
23.69	354.26	47.12	0
23.72	330.7	49.55	0
23.82	305.59	44.53	0
24.73	353.76	47.42	3.65
24.76	348.3	52.13	0
24.85	330.82	42.75	0
25.24	358.8	45.94	0
25.44	320.33	47.99	0
25.73	8.37	46.98	0
25.91	332.33	50.79	0
25.99	347.2	54.2	0
26.1	358.24	59.11	0
26.2	347.3	68.01	0
26.22	346.04	66.2	0
26.31	357.6	54.58	0
26.33	349.51	55.07	0
26.44	333.33	59.32	0
26.73	346.94	60.62	0
26.78	358.6	64.1	0
26.86	345.51	52.87	0
26.93	344.96	47.38	0
27.04	353.93	48.57	0
27.08	358.5	55.68	0
27.37	7.52	46.61	0
27.78	344.51	42.96	0
27.79	84.1	29.35	0
28.21	232.04	11.48	0
28.34	244.11	36.14	0
28.64	348.19	41.94	0
28.71	292.39	51.13	0
28.8	28.65	38.61	0
29.13	15.31	80.02	1.83
29.41	348.88	43.53	0
29.43	340.66	42.31	0
29.46	336.22	29.95	0
29.48	215.84	48.73	2.07

Table D14 Fracture orientation and apertures for BL-0226 (Page 2 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
29.57	247.83	44.1	0
29.8	343.96	32.28	0
29.95	332.38	34.91	0
30.22	352.62	47.1	0
30.36	204.84	32.7	0
30.47	337.78	48.57	0
30.58	186.89	27.68	0
30.74	3.75	49.03	0
30.9	338.66	32.8	0
31.02	346.12	54.21	0
31.15	21.04	34.59	0
31.26	329.5	43.89	0
31.37	319.37	44.12	0
31.49	353.91	50.17	0
31.62	346.76	42.61	0
31.67	332.92	50.13	0
31.76	335.91	41.19	0
31.87	343.29	35.42	0
32.09	354.54	50.92	0
32.16	0.72	40.63	0
32.55	358.65	32.21	0
32.57	355	46.57	0
32.87	294.59	45.95	0
33.05	340.9	42.76	0
33.12	351.75	35.2	0
33.21	324.82	41.45	0
33.29	349.65	42.97	0
33.42	333.11	40.82	0
33.48	358.8	50.09	0
33.55	349.06	37.19	0
33.71	315.94	39.23	0
33.82	330.41	27.53	0
33.95	355.47	42.6	0
34.12	3.69	54.94	0
34.39	348.51	51.33	0
34.57	334.12	38.77	0
34.6	329.04	44.95	0
35.29	3.9	52.08	0
35.61	6.63	30.59	0
35.8	318.49	35.55	0
35.82	338.77	14.48	0
35.93	353.55	40.02	0
36.6	269.24	15.5	0
36.69	353.82	47.33	0
36.76	3.73	36.35	0
37.17	14.96	62.24	0
37.26	319.75	33.25	0
37.46	355.88	36.97	0
38	357.62	40.56	0
38.04	5.41	50.43	0
38.36	12.72	63.07	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
38.61	347.35	82.98	0
38.63	345.44	82.68	0
38.74	341.4	46	0
38.88	0.18	47.58	0
39.03	353.47	65.65	0
39.27	266.71	42.93	0
39.44	331.05	36.54	0
39.52	351.31	35.47	0
39.67	337.48	48.01	0
39.75	2.36	48.9	0
39.87	352.86	45.29	0
39.93	345.6	57.17	0
40.26	332.37	43.98	0
40.69	355.34	41.86	0
40.71	349.07	39.66	0
40.77	335.62	37.25	0
40.92	331.46	37.89	1.31
41.28	346.66	83.42	0
41.49	346.88	63.39	0
41.64	1.97	74.32	0
41.78	13.13	55.19	0
41.98	323.7	39.03	0
42.03	315.42	47.84	0
42.46	271.43	36.22	0
42.5	261.12	41.58	0
42.8	351.62	36.62	0
43	16.44	60.08	0
43.08	2.33	42.44	0
43.29	354.57	58.37	0
43.48	2.09	54.14	0
43.58	1.5	48.87	0
43.61	6.29	52.89	0
43.69	359.68	39.89	0
43.76	327.57	50.45	0
44.03	339.25	53.73	0
44.1	6.31	59.78	0
44.25	4.14	40.69	0
45.1	4.44	47.13	0
45.25	6.92	51.12	0
45.29	9.45	56.08	2.29
45.32	3.3	48.07	2.53
45.36	357.98	59.65	0
45.52	10.11	45.48	0
45.59	12.22	32.22	0
45.65	349.92	49.06	0
45.85	9.99	53.28	0
45.95	10.87	54.48	0
46.14	0.62	51.77	0
46.89	353.37	53.22	1.21
46.95	334.64	46.62	0
47.2	358.67	59.69	0

Table D14 Fracture orientation and apertures for BL-0226 (Page 3 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
47.27	1.22	53.09	0
47.29	3.48	51.33	0
47.6	352.98	35.5	0
47.91	308.93	13.46	0
48.07	351.19	43.1	0
48.32	337.79	54.35	0
48.5	356.52	41.53	0
48.56	13.76	48.44	0
49.07	349.11	39.06	0
49.25	335.68	33.51	0
49.32	345.97	42.79	0
49.35	331.7	31.76	0
49.42	354.05	39.45	0
49.63	16.59	50.08	0
49.65	339.4	77.78	0
49.76	359.1	51.28	0
49.97	22.18	33.25	0
50.13	345.54	33.53	0
50.15	0.35	37.27	0
50.2	2.46	50.02	0
50.66	24.81	54.03	0
50.83	349.61	44.3	0
51.08	359.84	46.56	2.58
51.12	355.63	45.74	0
51.29	246.75	27.42	0
51.55	11.24	44.93	0
51.56	11.49	45.36	0
52.19	9.22	56.9	0
52.49	263.84	23.07	0
52.98	4.55	78.2	0
53.03	3.48	31.88	0
53.1	6.78	41.77	6.79
53.12	5.81	46.89	2.59
53.15	2.5	36.18	2.82
53.41	10.99	70.86	0
53.61	173.92	53.42	0
54.01	355.35	85.73	1.04
54.08	4.43	44.68	0
54.33	339.53	86.78	0
54.49	13.06	58.44	0
54.75	24.14	52.04	0
55.22	31.53	80.68	0
55.53	25.98	65.52	0
55.56	203.12	25.53	0
55.99	9.34	48.24	0
56.3	4.55	37.43	0
56.43	2.14	40.33	0
56.65	1.64	44.79	0
56.67	327.35	34.53	0
56.73	16.63	57.99	0
56.79	8.1	44.3	0
57.35	307.61	46.15	0
57.39	335.3	46.4	0
57.59	18.68	57.71	0
57.73	54.47	78.53	0
57.83	241.45	51.31	0
57.92	236.7	50.03	0
57.94	53.67	72.79	0
58.11	343.69	23.36	0
58.14	262.44	62.08	0
58.24	352.73	45.08	0
58.35	47.44	45.12	0
58.37	296.05	55.08	0
58.46	338.57	58.88	0
58.53	302.33	56.31	0
58.55	37.01	82.14	0
58.58	268.01	44.12	0
58.88	20.85	63.28	0
59.04	300.79	49.12	0
59.06	323.34	44.05	0
59.1	328.73	39.71	0
59.41	299.93	44.65	0
59.48	270.65	63.3	0
59.67	6.01	59.2	0
59.7	297.04	62.28	0
59.87	326.51	48.9	0
59.89	329.32	45.68	0
60.01	328.4	83.64	0
60.35	328.05	53.36	0
60.5	16.14	67.23	0
60.51	26.47	64.02	0
60.51	343.89	57.18	0
60.59	13.63	70.67	0
60.67	348.64	53.4	0
60.77	28.94	73.25	0
60.89	2.72	74.55	0
60.96	34.08	70.99	0
60.99	42.88	63.01	0
61.2	26.36	76.98	0
61.31	337.32	48.59	0
61.46	29.21	63.78	0
61.66	49.11	88.53	0
61.75	336.19	41.03	0
62.04	244.67	38.07	1.92
62.42	20.42	58.74	0
62.68	5.87	29.6	0
62.84	352.28	44.57	0
63.28	126.55	56.69	0
63.4	344.74	79.33	0
63.73	264.46	33.32	0
64.27	9.42	62.7	0
64.28	127.19	52.84	0.71

Table D14 Fracture orientation and apertures for BL-0226 (Page 4 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
64.37	350.71	41.79	0
64.64	287.95	37.72	0
64.85	17.25	63.6	0
65.5	7.75	69.55	0
65.58	37.44	67.97	0
66.39	350.75	63.44	0
66.77	278.72	21.73	2.64
67.1	302.93	54.36	0
67.14	310.45	54.6	0
67.26	356.6	77.77	0
67.5	4.01	64.04	0
67.55	37.13	56.79	0
67.62	5.21	60.98	0
67.66	349.75	56.79	0
67.68	352.74	59.36	0
67.99	27.96	62.9	0
68.06	17.4	63.23	0
68.36	355.39	51.55	0
68.46	335.7	56	0
68.58	350.39	50.94	0
68.89	49.7	56.88	0
69.72	324.75	29.39	0
69.83	274.12	39.22	2.15
70	253.49	49.62	0
70.57	271.85	54.41	0
70.96	332.33	54.61	0
71.28	316.03	46.5	0
71.59	301.93	51.69	0
71.95	300.07	47.72	0
72	291.43	51.72	0
72.04	12.37	70.85	0
72.7	5.55	55.66	0
72.71	10.25	57.07	0
72.74	357.58	49.22	0
73.23	0.52	59.75	0
73.45	335.16	51.15	0
73.49	321.23	56.48	0
73.52	7.49	54.13	0
73.55	159.21	79.82	0
73.57	18.77	69.9	0
73.78	1.37	52.47	0
73.85	351.85	57.58	0
73.94	350.15	60.88	0
74.31	329.98	62.68	0
74.53	305.44	55.05	0
75.14	311.54	62.98	0
75.62	313.67	41.45	0
76.06	299.32	59.55	0
76.23	95.36	53.12	0
76.26	296.41	54.01	0
76.4	303.92	54.8	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
76.45	310.94	45.6	0
76.47	314.82	52.05	0
76.5	309.76	61.41	0
76.55	316.68	64.68	0
76.61	278.81	34.51	0
76.61	316.23	59.69	0
76.88	323.69	62.75	0
77.13	299.6	55.1	0
77.66	339.33	78.18	0
77.95	264.33	47.29	0
78.42	344.32	59.66	0
78.68	12.55	64.66	0
78.97	0.74	43.92	0
79.22	349.13	71.66	0
79.25	344.55	62.31	0
80.11	298.14	5.63	0
80.44	319.11	51.64	0
80.53	312.93	39.42	0
80.92	328.23	56.47	0
80.99	308.75	47.24	0
81.04	319.19	45.94	0
81.4	4.04	84.9	0
81.61	351.43	54.67	0
82.2	2.51	68.92	0
82.36	68.77	33.68	0
82.38	12.44	66.43	0
83.55	121.22	45.69	0.87
83.97	356.82	69.36	0
84.53	248.72	59.93	0
85.33	53.56	81.68	0
85.4	83.48	40.28	0
85.63	11.93	66.49	0
85.65	211.01	28.27	0
85.8	22.48	65.7	0
85.96	1.95	65.46	0
86.03	4.76	65.56	0
86.06	4.57	67.52	0
86.64	326.86	26.78	0
87.28	342.25	58.04	0
87.34	338.86	60.91	0
87.43	172.7	18.04	0
End			

Table D15 Fracture orientation and apertures for BL-0232 (Page 1 of 5).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
8.17	327.51	35.69	0
8.58	284.36	37.32	0
8.65	271.15	22.56	0
8.7	324.08	26.09	0
8.71	179.65	15.27	0
8.88	22.97	39.97	0
8.91	9.49	42.4	0
8.93	272.51	10.89	1.14
8.98	270.74	36.21	0
9.05	195.37	35.84	0
9.15	2.19	41.07	0
9.2	349.77	43.68	0
9.27	2.57	51.51	0
9.45	2.51	56.9	0
9.66	135.79	86.47	0
9.8	348.93	48.71	0
10.18	0.41	38.82	0
10.36	217.9	27.8	0
10.57	98.45	58.04	0
10.64	336.83	21.27	0
10.65	76.9	57.02	0
10.89	0.19	21.05	0
10.99	340.56	23.1	0
11	356.27	47.53	0
11.57	315.29	17.27	0
12.08	14.8	56.53	0
12.31	25.84	65.96	0
12.5	238.32	85.7	0
12.79	49.69	86.57	0
12.8	230.53	86.61	0.49
12.96	221.99	12.91	3.65
13.22	106.53	83.83	0
14.3	154.28	84.55	0
15.07	104.57	75.5	0
15.48	312.13	22.9	0
15.5	289.02	81.94	0
16.66	31.61	54.88	0.8
16.81	53.18	81.87	0
17.03	82.63	28.86	0
17.07	40.09	35.69	0
17.19	87.4	40.93	0
17.87	7.9	50.78	0
18.01	345.57	83.03	0
18.08	67.15	88.85	0
18.19	198.92	68.57	1.14
18.62	11.97	50.12	0
18.66	13.01	52.59	0
19.1	194.83	57.8	0
19.23	61.01	28.28	0
19.31	185.97	38.22	0
19.45	55.01	77.29	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
20.06	9.59	45.58	0
20.11	14	53.02	0
20.27	7.86	45.63	0
20.36	343.11	40.26	0
20.5	351.24	47.29	0
21.05	193.41	49.69	2.91
21.13	191.79	24.63	2.52
21.51	0.34	38.52	0
21.56	8.93	48.24	0
21.86	348.11	41.66	0
21.92	9.1	36.83	0
22.04	3	49.04	0
22.06	5.46	46.42	0
22.08	5.4	45.38	1.45
22.27	28.98	17.25	0
22.53	7.27	52.45	0
22.61	353.38	43.8	0
22.68	357.03	42.34	0
23.2	343.87	31.77	0
23.64	90.22	18.15	0
23.77	356.96	57.13	0
23.84	227.69	46.43	2.12
23.9	3.98	52.96	0
23.95	11.24	53.31	0
23.97	8.36	47.04	0
24.01	19.06	62.72	0
24.02	2.05	45.87	0
24.04	15.78	55.34	0
24.07	18.35	56.4	0
24.15	100.45	18.54	0
24.16	356.37	43.98	0
24.32	9.45	58.9	0
24.39	354.43	38.19	0
24.46	178.52	76.22	0
24.66	29.09	56.32	0
24.75	30.04	63.28	1.27
24.84	357.49	26.62	0
24.94	143.8	80.98	0
24.95	38.63	84.72	0
25.46	205.08	41.92	0
25.53	36.7	63.76	0
25.58	16.55	57.52	0
25.86	344.76	32.03	0
25.9	4.25	50.22	0
25.97	355	48.48	1.74
26.01	0.43	51.61	0
26.44	1.53	37.8	0
26.68	305.12	44.15	0
26.74	330.25	44.97	0
27.08	15.6	57.54	1.78
27.15	21.93	62.14	1.71

Table D15 Fracture orientation and apertures for BL-0232 (Page 2 of 5).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
27.18	15.95	53.7	2.02
27.24	12.34	47.36	0
27.42	347.26	45.99	0
27.55	351.72	45.94	0
27.58	350.3	46.19	0
27.91	352.42	46.84	0
28.12	350.87	45.94	0
28.35	341.7	40.44	0
29.03	185.75	22.1	1.3
29.31	211.36	62.97	0
29.37	289.46	88.61	0
29.38	1.15	46.87	0
29.38	232.02	63.32	0
29.47	13.21	46.49	0
29.82	158.74	40.84	0
30.16	243.25	50.71	0
30.16	39.45	35.03	0
30.27	339.49	24.29	0
30.4	7.52	51.41	0.65
30.42	5.85	48.03	3.48
30.47	4.78	46.92	0
30.68	4.24	46.8	0
30.74	4.62	43.9	1.53
30.86	350.67	45.3	0
31.12	342.83	41.37	0
31.16	0.81	44.09	0
31.19	17.99	34.59	0
31.5	179.85	5.37	0
31.53	352.8	48.85	0
31.57	160.25	32.32	0
31.58	358.51	44.2	0
31.75	4.06	40.47	0
31.94	34.64	29.73	0
32.09	351.4	37.86	0
32.14	28.24	26.79	0
32.22	20.91	31.72	0
32.33	28.88	29.32	0
32.38	3.66	43.66	0
32.44	5.03	38.78	0
32.47	4.27	40.53	4.14
32.56	354.65	38.35	0
32.73	1.3	26.06	0
33.03	18.14	50.4	1.54
33.3	44.66	6.12	6.64
33.32	96.77	14.95	1.44
33.36	4.09	10.36	2.48
33.45	330.07	6.98	110.46
33.61	131.33	8.48	4.2
33.76	357.87	54.49	1.46
33.87	5.94	26.3	0
33.91	0.64	37.93	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
33.95	159.89	76.06	0
34.19	356.97	54.18	1.96
34.54	50.89	45.32	4.57
34.75	165.42	42.05	0
34.76	6.83	38.67	0
35	134.56	31.02	0
36.34	102.96	19.87	0
36.59	146.04	32.11	0
37.27	170.26	68.48	3.45
37.8	356.65	42.56	0
37.85	357.09	42.63	0
37.91	358.57	43.01	0
38.22	272.6	78.37	0.78
38.4	179.41	60.65	0
39.09	87.78	65.06	0
39.15	113.35	73.55	4.26
39.92	28.74	61.7	0
40.22	6.55	45.34	0
40.28	358.74	37.55	0
40.43	188.18	46.6	2.1
40.75	349.12	43.59	0
41.09	337.79	36.97	0
41.35	2.38	56.13	0
41.72	356.3	29.56	0
42.12	7.54	31.94	0
42.15	179.8	55.83	0
42.36	22.16	44.99	0
42.96	321.32	13.69	0
43.03	8.19	38.77	0
43.06	192.27	39.31	0
43.11	188.27	75.59	0
43.14	12.39	56.61	0
43.2	20.85	60.23	0
43.34	31.48	59.58	0
43.37	18.4	41.15	0
43.4	29.5	47.22	0
43.44	28.64	61.29	0
43.79	182.01	51.06	0
43.81	347.84	43.31	0.04
43.94	80.32	77.84	0
44.09	150.68	53.94	0
44.14	13.64	52.67	0
44.17	178.17	47.95	0
44.28	356.07	49.29	0
44.32	350.6	45.28	0
44.34	347.76	43.95	0
44.4	151.12	74.32	0
44.43	353.12	45.81	0
44.74	354.18	34.84	0
44.83	335.95	39.12	0
44.88	169.62	71.01	0

Table D15 Fracture orientation and apertures for BL-0232 (Page 3 of 5).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
44.97	293.98	12.56	2.26
45.01	274.52	15.47	0
45.09	238.93	23.91	0
45.17	340.37	23.85	1.01
45.23	353.62	26	2.07
45.27	355.2	43.05	0
45.32	355.76	50.53	0
45.4	0.85	58.66	0
45.56	16.92	58.68	0
45.62	17.75	64.81	0
45.8	249.72	33.63	0
46.23	352.75	54.94	0.87
46.53	346.4	43.15	1.32
46.56	353.95	44.06	1.39
46.85	27.44	60.55	0
47.75	14.75	39.17	64.28
47.85	347.62	33.41	0.86
47.95	2.26	40.73	1.65
48	8.02	44.86	0
48.06	30.1	52.07	0
48.15	16.12	49.95	0
48.26	12.87	58.31	1.14
48.66	39.77	62.58	0
49.12	346.56	45.42	2.47
49.12	7.42	49.63	1.39
49.53	97.3	45.46	0
50.28	31.45	56.31	3.24
50.45	342.72	29.48	0
50.58	321.9	36.05	0
50.7	1.77	40.65	2.48
50.76	2.85	38.65	10.46
50.79	2.92	38.4	0
50.82	1.52	34.83	0
50.86	357.17	31.82	0
50.91	347.44	34.61	0
50.99	336.84	32.16	0
51.07	337.81	36.92	0
51.11	336.42	33.71	1.61
51.16	338.55	35.59	0
51.19	351.82	38.02	0
51.35	21.73	66.32	1
51.37	229.14	39.74	0
51.38	19.09	64.01	2.61
52.29	114.22	28.3	2211
52.3	13.96	54.63	0
52.43	2.66	48.26	0.68
52.45	3.31	48.21	2.08
52.54	349.2	43.08	0
52.58	354.51	45.37	0
52.63	0.85	42.54	1.56
52.66	355.04	42.07	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
52.72	355.95	45.31	1.38
52.77	352.93	42.39	1.45
53.31	328.35	35.36	2.21
53.4	356.93	47	0
53.49	10.08	56.77	0
53.57	5.29	34.95	0
53.64	348.21	30.88	0
53.73	347.54	33.54	2.6
53.82	0.11	40.47	1.64
53.89	342.88	32.26	0
53.99	341.96	24.1	0
54.11	327.02	7.39	2.47
54.18	292.46	30.35	0
54.25	326.91	26.36	0
54.31	27.95	14.5	0
54.47	213.07	44.52	0
54.51	223.51	38.37	1.78
54.93	357.79	29.53	0
54.97	332.37	24.72	0
55.23	39.4	60.95	0
55.23	229.29	21.48	0
55.28	46.42	53.9	0
55.36	13.79	33.18	0
55.46	15.22	34.17	0
55.85	194.72	67.03	0
55.9	179.43	62.66	0
56.26	145.98	25.79	0
56.4	156.09	20.89	2.84
56.79	174.27	21.12	0
57.35	184.65	60.88	0
57.78	36.74	75.33	0
58.07	342.78	46.16	0
58.32	7.14	54.06	0
58.61	15.55	41.31	0
58.84	15.18	29.45	0
59.37	349.84	34.87	1.73
59.43	216.14	47.69	0
60.21	105.19	55.56	0
60.41	354.19	39.8	0
61.31	216.69	49.99	3.6
61.36	227.34	38.1	2.59
61.46	201.54	65	0
61.67	4.17	43.54	0
61.74	12.01	48.82	0
62.29	17.4	48.66	0
62.55	299.51	17.09	0
63.34	357.32	52.85	0
63.61	8.95	56.77	0
63.82	201.15	69.46	0
64.24	209.03	49.51	0
64.27	39.63	74.14	0

Table D15 Fracture orientation and apertures for BL-0232 (Page 4 of 5).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
64.6	219.95	37.62	0
64.94	7.21	51.52	0
65.18	201.88	66.07	1.07
65.22	205.56	64.5	2.11
65.32	340.32	46.12	0
66.39	297.7	15.64	0
67.33	2.19	49.86	0
68.32	351.97	44.42	0
68.39	127.67	34.21	0
69.05	139.06	19.95	0
69.1	136.56	2.52	2.71
69.4	348.25	51.14	0
69.45	341.33	44.49	1.26
69.91	31.78	27.64	0
70.38	63.83	77.16	0
70.43	59.77	71.17	0
70.54	172.21	68.48	0
70.82	13.25	13.35	1.33
71	163.2	15.6	0
71.1	20.93	33.64	2.17
71.26	14.26	31.96	0
71.54	342.54	38.53	0
72.78	321.94	48.38	1.29
73.46	343.59	42.72	0
73.65	319.2	46.51	0
73.75	165.71	47.64	2.43
73.78	352.69	52.38	1.06
73.98	348.1	47.23	0
74.1	334.32	38.79	0.71
74.12	339.78	36.6	0
74.15	312.57	29.95	0
74.39	337.35	33.25	5.04
74.44	319.43	29.58	0
75.2	198.96	34.29	2.27
75.59	198.06	53.97	0
75.73	341.3	58.8	0
75.78	193.96	42.07	0
76	339.49	43.71	2.54
76.21	354.93	58.46	0
76.26	288.74	40.93	0
76.36	311.19	9.72	0
76.4	340.65	31.1	0
76.55	10.95	42.42	0
76.72	39.02	60.59	2.44
76.77	22.49	55.15	3.01
76.96	150.14	80.36	0
76.99	202.97	61.45	0
77.01	306.82	34	0
77.02	2.94	28.02	0
77.08	154.95	17.79	0
77.35	186.3	21.28	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
77.46	179.32	32.53	0
77.87	338.81	35.21	0.82
78.77	2.99	54.65	1.73
78.96	36.57	68.6	0
79.04	46.1	80.77	1.42
79.25	179.94	46.31	2.25
79.71	189.73	53.19	0.93
79.98	81.99	30.96	0
80.22	32.24	44.72	0
80.57	341.94	50.99	0
80.66	7.03	15.18	0
80.75	347.8	36.29	0
80.87	310.25	36.55	0
81.1	35.95	50.82	0
81.19	15.18	47.44	0
81.27	27.43	51.35	0
81.39	5.21	39.2	0
81.45	357.42	35.64	0
81.52	350.52	30.6	0
81.77	19.33	62.14	1.77
81.89	29.9	46.24	0.98
82.74	346.8	45.21	0
82.77	349.03	41.67	0
82.82	8.92	34.41	0
82.94	13.73	29.01	0
83.39	202.2	46.76	0
83.52	168.96	87.11	0
83.75	44.97	58.3	0
83.96	26.76	65.64	0
84.39	348.28	20.34	0
85.13	3.31	50.84	0
85.26	11.62	64.14	0
85.35	7.15	57.84	0
85.48	5.48	54.19	0
85.53	9.28	56.74	0
85.57	5.17	55.95	0
85.65	3.97	62.06	0
85.74	3.89	58.17	0
85.82	358.86	62.73	0
86.04	2.76	60.29	0
86.05	8.5	51.86	0
86.18	338.06	48.37	0
86.26	1.83	56.14	0
86.34	18.07	62.56	0
86.59	24.44	71.5	0
86.65	11.53	58.39	0
87.08	7.46	60.49	0
87.25	0.23	59.86	0
87.57	354.84	43.21	0
87.68	357.58	56.9	1.45
87.69	182.18	45.55	0

Table D15 Fracture orientation and apertures for BL-0232 (Page 5 of 5).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
87.8	351.16	30.16	0
87.88	359.06	59.25	1.77
87.91	14.07	67.88	0
88.08	348.45	5.2	0
88.32	4.05	63.4	0
88.95	233.89	28.31	3.07
89.09	292.28	25.72	2.77
89.14	307.42	36.02	0
89.2	304.6	37.4	0
89.26	346.12	45.11	0
89.35	3.73	49.22	0
89.45	357.75	47.98	0
89.67	6.35	60.74	0
89.84	13.15	55.12	0
90.47	344.06	51.52	0
90.73	2.5	62.87	0
90.99	130.66	17.46	0
91.59	30.74	81.74	0
91.61	117.19	17.22	0
91.84	137.74	64.86	0
92	340.09	33.92	0
92.17	333.5	30.61	0
92.22	338.21	33.15	0
92.24	348.83	35.55	0
92.68	7.63	50.56	0
92.87	154.97	75.48	0
93.19	326.87	51.8	0
94.71	321.23	42.15	1.82
94.76	349.12	41.58	0
94.8	128.4	87.89	0
95.43	168.03	38.35	0
96.29	34.85	60.12	0
96.33	175.32	28.35	0
97.71	345.09	37.52	0
97.97	11.47	25.08	0
98.08	71.53	74.25	0
98.24	26.52	30.45	0
98.34	23.08	33.74	0
98.51	316.67	26.21	0
98.62	313.6	39.44	0
99.17	266.22	89.81	2.34
99.58	157.2	50.49	0
100.16	278.44	35.07	0
100.39	302.22	9.24	0
100.92	22.8	39.51	0
101.58	339.66	15.03	0
102.02	21.38	47.76	0
102.04	12.4	53.61	0
102.11	59.07	71.09	0
102.16	34.5	60.15	0
102.58	348.08	46.26	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
102.72	358.36	58.03	0
103.1	33.1	82.4	0
103.41	313.03	56.6	0.24
103.67	136.56	86.75	0
104.4	310.79	41.15	0
104.57	0.4	50.94	1.35
104.64	160.33	76.62	0
104.79	285.58	42.73	0
104.8	154.53	81.72	0
105.6	146.12	44.88	0
105.9	5.04	51.51	0
106.02	25.97	65.39	0
106.27	11.52	18.43	0
107.26	133.24	88.95	0
107.52	8.26	28.85	1.11
108.12	353.41	37.34	0
108.19	2.11	43.6	0
108.32	65.03	76.48	0
108.61	18.79	51.9	0
108.64	1.83	31.45	0
108.71	306.98	25.6	0
108.79	297.85	23.89	0
114.99	158.44	47.42	0
116.29	245.91	30.39	0
End			

Table D16 Fracture orientation and apertures for BL-0283 (Page 1 of 1).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
5.51	103.68	81.82	0.64
5.86	102.99	54.84	0
6.64	140.15	54.46	0
7.09	37.12	72.43	0
7.95	170.87	88.7	0
8.34	354.43	71.6	0
10.49	44.14	46.83	0
10.58	17.03	50.86	0
10.91	39.89	61.53	0
12.62	283.87	30.59	0
13.65	70.23	49.52	1.19
14.7	284.08	15.58	0
18.58	258.7	88.32	0
20.05	63.01	80.99	0
20.13	42.45	79.82	0
20.54	39.32	73.28	0
20.97	46.49	45.27	0
21.72	302.03	24.68	0
22.33	21.85	61.81	0
22.95	2.09	28.67	0
23.81	355.21	61.95	0
24.55	11	59.44	0
24.63	284.81	14.28	0
26.04	47.99	30.6	1.39
26.08	50.05	56.96	0
27.56	103.95	78.52	0.63
27.9	28.4	47.36	1.49
29.81	343.04	26.05	3.98
29.86	75.41	44.56	1.17
29.93	318.81	8.24	1.12
30.03	75.79	45.19	0
30.58	211.85	63.64	0
30.74	346.81	58.71	0
31.01	316.53	20.28	1.18
31.04	50.39	80.84	1.05
31.13	327.04	30.4	0
31.16	58.72	81.87	0.97
31.24	5.65	14.88	28.25
31.44	2.7	17.46	1.3
31.78	323.35	31.7	1.2
31.82	304.42	21.02	0
31.93	121.89	43.05	0.66
32	213.63	9.94	7.81
32.16	16.35	74.64	48.26
32.25	268.35	9.68	5.84
End			

Table D17 Fracture orientation and apertures for BL-0284 (Page 1 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
6.77	90.77	66.77	0
6.97	90	64.71	1.42
7.23	44.39	65.86	0
7.36	54.64	69.51	4.53
7.38	47.38	64.74	0
7.47	57.91	56.64	0
7.56	0.75	37.78	0
7.69	29.07	55.35	0
7.79	38.45	54.24	0
7.85	51.28	66.31	0
7.88	42.9	54.41	0
7.98	317.33	21.05	0
8.21	281.95	65.73	0
8.26	144.56	26.53	0
8.79	7.9	85.49	0
8.82	340.06	75.1	0
8.87	163.93	69.37	0.47
9.01	353.88	47.93	2.89
9.04	96.72	67.73	0
9.05	312.45	35.24	1.14
9.15	102.72	51.74	1.39
9.33	106.24	66.41	0
9.51	281.54	47.86	0
9.73	110.16	55.09	0.54
9.74	333.62	32.43	1.32
9.85	97.31	58.33	0
9.93	346.45	21.7	0
10.01	44.26	62.09	2.63
10.02	107.72	51.97	1.85
10.08	359.93	20.69	1.36
10.11	14.43	26.94	0
10.32	355.13	84.98	0
10.37	157.87	3.66	0
10.5	90.07	32.64	0
10.57	325.68	24.13	0
11.05	264.87	29.67	0
11.19	228.91	26.56	0
11.38	273.18	29.38	0
11.61	289.86	43.77	0
11.77	301.39	74.49	0
11.89	308.01	38.59	0
11.97	347.28	62.37	3.96
12.09	355.33	65.5	0
12.11	23.15	66.21	0
12.26	114.88	59.95	0
12.35	119.37	63.61	0
12.36	101.57	80.13	0.26
12.46	96.82	71.32	1.48
12.54	102.23	62.74	1.07
12.57	80.16	82.61	1.73
12.66	78.72	80.91	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
13.22	159.35	37.03	0
13.28	10.58	80.45	0
13.46	99.48	76.52	0.7
13.53	255.13	87.97	1.47
13.68	81	65.8	0
13.93	164.49	82.11	0
14.17	40.58	61.76	0
14.25	351.41	22.44	2.71
14.27	4.73	16.09	2.63
14.42	343.57	88.93	0
14.45	89.96	86.62	0
14.46	344.25	15.72	0
14.64	75.35	75.91	1.52
14.77	61.45	51.07	0
14.87	346.19	76.07	0
15	44.67	31.39	0
15.06	322.29	70.65	0
15.11	39.77	27.05	0
15.19	55.05	50.55	0
15.27	95.8	46.61	0.85
15.42	95.33	58.87	1.39
15.59	264.86	58.42	0
15.75	80.33	33.35	0
16.01	63.43	81.85	0.85
16.03	294.21	47.22	0
16.12	62.85	77.84	0
16.15	313.14	26.16	0
16.35	250.78	38.41	0
16.49	264.11	32.14	0
16.62	265.31	29.31	0
16.63	67.64	83.58	0
16.69	264.02	21.37	0
16.77	254.19	27.38	0
16.88	106.46	59.1	0
16.94	26.77	77.67	0
17.23	289.38	21.64	0
17.32	37.83	89.64	0
17.33	98.17	45.65	0
17.4	334.11	21.23	1.28
17.71	266.57	17.51	2.76
17.99	275.11	35.41	0
18.04	269.57	39.45	0
18.09	273.07	34.16	0.77
18.14	257.87	39.9	2.63
18.14	250.67	43.12	0.76
18.27	224.83	14	0
18.36	279.71	22.12	0
18.48	266.17	32.13	2.19
18.6	315.79	6.12	2.25
18.67	331.77	22.84	0
18.87	45.03	67.62	0

Table D17 Fracture orientation and apertures for BL-0284 (Page 2 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
19.14	62.64	65.99	0
19.3	55.24	75.36	0
19.61	271.37	25.51	0
19.99	111.09	51.37	0
20.17	340.3	70.79	0
20.24	99.11	32.33	0
20.42	168.14	76.53	0
20.6	284.23	45.31	0
20.75	50.86	85.9	0
20.8	86.43	48.56	0
21.2	45.75	60.34	1.3
21.53	41.02	72.95	0
21.56	43.07	59.51	0
21.87	279.77	46.2	0
21.93	53.22	60.37	0
22.1	276.39	49.21	0
22.89	103.05	80.7	0
23.07	45.78	68.44	0
23.11	102.21	48.71	0.74
23.26	31.8	78.79	2.39
23.39	19.35	58.87	0
23.42	3.61	18.87	0
23.57	0.45	58.75	0
23.8	348.09	16.65	0
24.06	36.72	67.73	0
24.18	299.12	30.05	0
24.32	33.36	74.48	0
24.68	44.2	72.44	0
25.12	280.94	51.01	0
26.33	46.11	73.9	2.33
26.98	51.42	72.76	0
27	338.59	12.77	0
27.25	60.05	64.45	0
27.66	70.59	84.34	0
27.66	72.73	67.95	0
27.79	191.06	54.26	0
28.37	148.64	63.38	0
28.88	347.64	50.17	0
29.15	64.85	61.33	0
29.2	58.41	49.86	0
29.33	24.41	60.12	4.29
29.55	37.41	65.77	0
30.72	19.73	54.34	0
30.99	299.13	8.45	0
31.3	31.29	68.13	0
31.87	321.68	8.66	0
31.9	5.92	7.16	0
32.29	335.35	30.3	0
32.32	66.89	66.94	0
32.38	62.28	50.57	0
32.41	6.15	16.97	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
32.49	298.67	28.87	2.12
32.64	34.39	11.74	0
32.66	88.07	67.81	0
32.72	94.27	71.76	0
32.82	226.53	84.37	1.5
32.91	97.56	71.04	0.96
32.93	244.96	89.32	0
32.97	86.71	12.97	0
33.02	58.44	43.25	0
33.16	68.03	42.06	0
33.27	239.55	13.06	0.87
33.44	127.13	29.3	0
33.71	55.27	52.33	0
33.74	26.14	47.07	0
33.91	57.04	23.04	0
33.99	66.78	44.96	0
34.02	24.31	54.88	0
34.07	274.47	15.58	0
34.18	122.54	14.12	0
34.28	80.06	23.37	0
34.45	128.14	25.63	0
34.49	181.05	64.54	0
34.52	27.41	42.09	0
34.55	52.23	63.17	0
34.63	34.24	36.16	0
34.68	17.87	31.89	0
34.78	23.47	61.11	0
34.81	0.61	50.01	0
35.15	27.92	89.68	0
35.22	59.2	70.42	0
35.34	19.11	68.18	0
35.54	36.77	51.59	0
35.66	19.66	59.63	0
35.72	73.03	50.37	0
35.88	12.34	65.38	0
35.99	72.56	23.85	0
36.2	15.46	12.98	0
36.2	188.58	89.81	0
36.24	42.52	55.48	0
36.27	72.74	34.47	0
36.34	328.4	25.84	3.83
36.37	74.57	45.72	0
36.76	108.87	12.74	0
36.81	308.57	22.43	2.3
36.97	282.22	33.68	0
36.98	91.34	62.48	0
37.08	30.12	60.26	0
37.28	287.03	50.02	0
37.53	14.63	59.74	0
37.56	286.55	30.55	0
37.68	327.46	18.87	0

Table D17 Fracture orientation and apertures for BL-0284 (Page 3 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
37.71	23.55	25.01	0
37.77	14.94	18.96	0
37.8	40.42	29.18	0
37.84	21.82	65.62	0
37.98	22.73	63.12	0
38.04	291.01	45.4	0
38.23	28.65	67.06	0
38.24	31.35	76.78	0
38.3	21.81	66.51	0
38.4	358.43	59.71	0
39.57	357.17	23.74	15.2
39.68	35.24	21.12	0
39.73	20.48	55.09	0
39.74	159.91	83.59	0
40.42	61.65	79.55	0
40.79	194.25	81.04	0
40.86	45.71	75.23	0
41.07	191.07	77.55	0
41.69	39.79	36.01	7.15
41.8	47.46	30.17	113.69
41.98	6.27	17.15	0
42.03	354.67	52.11	0
42.04	82.23	6.91	0
42.13	30.85	35.01	0
42.16	20.15	35.48	0
44.3	6.18	42	0
44.5	159.12	88.05	0
44.7	324.77	87.95	0
46.04	248.55	89.31	0
46.1	249.35	85.46	1.08
46.18	182.65	83	0
46.19	247.82	83.66	0
46.48	150.75	32.85	0
46.69	164.94	78.73	1.36
46.83	344.91	89.01	0
47.85	47.12	71.74	1.19
47.91	42.06	62.77	0
48.29	326.7	16.69	0
48.43	45.25	88.69	0
48.49	246.14	84.84	0
49.09	107.63	37.98	0
49.42	162.86	41.38	2.6
49.59	164.92	30.09	8.45
49.59	175.01	36.23	4.73
50.03	353.21	53.36	0
50.47	199.82	87.49	0
50.68	97.71	31.86	0
51.42	146.34	89.41	3.19
52.01	52.85	77.29	0
52.17	121.19	36.34	1.42
52.28	192.39	25.67	1
52.47	123.76	55.91	0
52.71	91.94	54.87	0
52.91	357.91	17.08	0
53.16	58.66	50.85	0
53.37	64.78	82.26	0
53.9	93.36	87.54	0.58
53.9	308.22	5.87	0
53.93	329.43	11.74	0
53.99	344.86	31.06	0
54.15	50.22	67.94	0
55.75	23.27	72.14	0
56.06	13.05	61.52	0
56.72	205.72	77.81	0
57.22	15.51	67.61	0
57.66	86.11	9.95	0
58.74	237.07	7.58	0
58.81	12.98	25.4	2.82
59.34	72.59	43.48	0
59.7	312.14	17.42	0
59.79	15.47	88.65	0
59.87	115.46	51.9	0
59.97	356.43	38.88	0
60.07	350.77	57	0
60.12	354.79	23.39	0
60.38	3.75	13.63	0
60.47	325.27	76.82	0
60.78	3.84	23.1	0
60.85	314.42	9.8	0
60.94	343.13	12.08	0
61.04	188.56	67.95	0
61.11	69.06	4.26	0
61.16	66.28	10.94	0
61.25	115.57	18.94	0
61.34	190.58	86.55	0
61.39	201.59	72.93	0
61.54	179.66	75.91	0
61.94	6.6	21.33	2.74
61.96	39.27	23.26	0
61.99	89.81	89.6	0.3
62.62	7.43	26.19	0
62.74	9.34	66.31	0
62.79	91.63	11.72	0
63.39	10.57	15.4	0
63.85	353.72	52.31	0
63.86	354.14	57.24	0
64.06	5.08	22.08	0
64.34	353.87	27.7	0
64.43	32.67	20.32	0
64.45	34.17	30.73	0
64.51	15.5	61.38	0
64.57	30.13	48.48	0

Table D17 Fracture orientation and apertures for BL-0284 (Page 4 of 4).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
64.88	226.91	24.88	0
65.11	9.46	64.15	0
65.39	358.1	78.33	0
65.5	60.12	29.09	0
65.84	33.58	19.27	0
65.85	4.25	66.9	0
66.02	154.83	24.42	0
66.14	154.19	22.74	1.34
66.2	238.6	21.6	0
66.24	239.8	23.07	0
66.27	238.15	17.92	0
66.35	157.25	24.46	0
66.47	163.78	8.18	0
66.52	321.9	28.84	0
66.57	129.79	7.44	2
66.65	24.22	16.28	5.25
66.67	25.17	13.19	2.54
66.74	43.11	45.44	0
66.81	292.08	7.27	0
66.93	5.91	31.83	0
66.97	34.82	43.5	0
67.04	19.92	22.61	0
67.29	319.62	25.93	0
67.34	354.41	25.82	0
67.44	207.47	12.09	0
67.87	103.27	52.02	0.74
71.05	178.54	88.29	0
71.89	253.17	13.46	0
71.93	225.01	14.98	0
72.05	47.07	16.92	0
72.23	94.39	1.88	0
72.27	55.47	17.09	0
72.37	43.09	22.97	0
72.83	19.24	8.62	0
72.89	54.29	19.47	0
72.99	323.35	17.93	0
73.01	18.2	26.49	0
73.05	38.79	44.56	0
73.1	195.98	88.26	0
73.77	58.42	45.55	0
73.81	62	49.22	0
74.81	51.95	38.29	0
74.96	349.19	79.38	0
75.15	211.91	84.86	0
75.33	350.76	57.19	0
75.8	283.68	2.52	0
75.89	40.65	57.7	0
76.34	43.93	51.75	0
76.82	36.21	86.01	0
77.12	274.57	31.71	0
78.43	59.09	31.58	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
79.24	267.36	11.38	0
80.53	349.21	30.01	0
80.89	315.64	27.24	0
81.14	357.14	84.81	0
81.52	56.14	53.12	0
End			

Table D18 Fracture orientation and apertures for BL-0321 (Page 1 of 2).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
10.78	65.79	86.14	1
11.05	168.07	63.51	2.8
11.62	350.64	57	0.28
11.67	145.54	67.35	0
11.84	153.89	67.25	0
11.9	153.12	70.85	0
12.02	160.3	65.07	0
12.06	156.66	65.51	0
12.15	149.14	49.92	0
12.23	149.36	68.53	0
12.36	142.21	64.4	0
12.41	141.06	66.07	2.38
12.5	172.82	68.2	0
12.52	167.79	78.17	0
12.61	150.27	60.77	0
12.72	142.85	63.42	0
12.73	171.22	30.73	0
12.83	148.1	66.17	1.26
12.87	140.17	62.02	0
13	149.93	62.26	0
13.04	152.85	71.89	0
13.26	155.55	61.36	0
13.34	202.62	62.46	9.42
13.35	17.07	17.8	3.63
13.7	359.72	34.35	0
14.83	9.51	37.15	0
16.73	230.92	75.2	1.8
17.3	166.99	63.82	0
17.33	166.63	66.4	1.8
18.38	224.8	82.2	0
18.65	170.47	83.62	3.38
18.66	167.01	76.21	0
19.63	8.35	36.13	0.56
20.19	223.55	88.97	1.55
21.21	9.32	36.89	0
21.37	300.07	37.68	0
22.39	177.43	35.87	0
24.99	129.77	76.84	0
25.02	250.37	56.68	0
25.15	127.14	70.56	2.73
26.06	272.14	35.59	0
26.19	217.3	39	2.78
27	5.01	25.11	1.15
27.39	274.76	58.53	2.25
27.78	180.93	84.02	2.24
28.58	185.19	86.35	1.07
28.89	220.03	38.47	1.38
29.1	242.4	61.99	2.98
29.11	9.35	83.29	0
29.12	351.47	25.27	4.13
29.18	323.17	21.57	1.52

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
29.21	311.83	24.16	0
29.27	9.95	88.23	1.92
29.47	183.95	10.2	0
29.49	12.93	84.02	0
29.75	242.8	72.69	0
29.76	229.93	82.67	0
29.9	134.88	44.18	5
29.94	243.96	78.83	1.93
30	228.64	62.51	3.09
30.03	171.17	69.51	5.21
30.15	242.58	83.35	0
30.16	187.89	82.93	0
30.21	339.54	26.02	3.25
30.28	264.46	77.32	0
30.41	267.8	68.03	0
30.41	4.53	66.37	0
30.5	218.96	27.68	0
30.82	269.72	67.31	0
31.21	126.32	73.36	1.08
31.75	358.16	35.9	0.88
31.77	358.64	33.99	2.6
32.36	321.73	22.72	0
32.49	125.08	69.13	0
35.06	0.36	29.49	0
35.54	128.45	71.46	0
35.59	229.8	43.93	0
37.96	30.86	63.12	0
40.45	186.24	31.71	0
40.55	351.43	83.87	0
40.98	31.28	35.21	0
41.17	24.48	27.22	0
41.43	280	4.66	0
42.86	314.44	9.11	0
44.3	151.85	60.95	0
45.19	311.19	19.6	0
47.1	39.59	69.98	1.08
47.72	321.59	19.05	0
48.99	334.98	17.38	0
50.47	262.74	17.14	0
51.35	244.57	25.46	0
55.12	116.5	70.48	1.44
56.83	73.2	23.05	0
57.45	62.95	17.6	2.5
60.83	353.34	37.26	0
61.5	7.42	34.28	0
63.95	341.5	76.41	0.52
64.43	326.99	17.52	2.64
64.54	323.55	24.88	0
66.57	348.44	87.74	0
67.04	82.61	18.64	0
67.91	123.09	67	0

Table D18 Fracture orientation and apertures for BL-0321 (Page 2 of 2).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
69.39	359.58	30.93	0
71.72	303.87	23.95	0
71.85	9.21	31.85	0
74.59	27.04	13.96	1.3
76.94	80.74	21.92	2.54
77.92	268.16	15.29	0
82.35	113.52	71.59	1.98
84.17	149.09	78.83	0
84.85	121.16	25.97	0
86.48	148.58	65.1	0
87.68	350.08	35.2	0
87.76	6.29	33.95	0
87.84	333.17	15.46	0
87.95	330.22	20.53	0
88.26	73.73	22.5	0
88.58	177.75	65.33	0
89.09	10.07	25.48	0
92.78	347.21	31.32	0
92.84	294.36	7.01	1.62
93.6	214.72	29.4	0
94.75	38.58	32	0
94.93	33.71	27.9	0
95.65	350.11	73.99	0
96.6	344.46	82.4	0
103.98	1.16	25.54	0
104.12	20.28	17.87	0
104.57	166.76	60.86	0
105.09	123.77	64.65	1.58
107.07	353.85	31.08	0
108.34	331.71	43.22	0
109.42	159.32	83.65	0.94
111.74	128.12	69.63	1.49
115.09	340.37	18.08	0
119.21	357.48	22.75	0
119.9	357.64	25.02	0
121.99	117.94	71.8	0
122.1	35.93	18.6	0
123.27	340.56	85.36	0
126.43	226.12	49.07	0
128.61	50.28	23.74	0
128.99	20.76	14.82	1.28
129.01	23.21	22.8	0
133.45	350.7	33.06	0
134.51	8.42	29.52	0
135.51	145.24	69.69	0
135.59	238.2	18.35	0
138.51	132.56	61.83	0
140.24	42.17	2.76	0
142.53	229.96	61.52	0
145.36	16.38	14.94	0
149.37	123.93	68.84	0.6

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
151.97	220.22	8.99	0
152.15	17.91	17.01	0
152.25	187.99	17.28	0
154.11	122.88	70.57	0
154.46	29.99	61.93	0.5
155.22	317.76	34.63	0
155.81	177.06	40.63	0
156.52	136.68	61.05	0
156.65	317.34	21.22	0
156.83	3.86	30.26	0
157.4	112.87	66.38	1.31
157.72	297.14	47.22	0
158.33	115.55	67.86	0.88
160.23	44.38	71.33	0
160.6	37.18	80.74	0
160.62	143.7	31.92	0
162.34	247.3	54.59	0
162.96	240.81	85.99	0
163.69	268.85	87.56	0
167.68	117.17	70	0
169.7	253.8	26.15	0
169.87	134.59	68.6	0
188.28	134.04	75.39	0
189.07	206.83	7.64	0
190.21	140.38	38.85	0
191.18	336.01	37.83	0
191.21	148.76	70.97	0
193.13	316.7	43.7	0
193.21	312.59	26.59	0
194.44	330.58	39.06	0
195.37	9.51	28.56	0
196.31	338.35	10.64	0
196.59	4.66	18.91	0
197.1	297.9	6.18	0
201.01	4.46	38.62	0
201.05	3.44	37.43	0
203.16	11.97	30.51	0
204.17	214.43	15.61	0
204.88	9.62	27.11	0
208.47	150.85	41.01	0
210.75	356.19	85.82	0
211.81	13.45	29.28	0
218.48	179.02	69.92	0
220.57	143.82	53.93	3.49
221.55	119.16	51.21	0
223.02	151.18	75.06	2.33
End			

Table D19 Fracture orientation and apertures for BL-0322 (Page 1 of 2).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
8.43	247.46	75.2	0
8.45	332.77	32.27	0
8.6	15.8	74.8	0
8.63	253.15	35.52	0
8.85	245.23	60.8	0
9.09	37.66	22.49	1.16
9.35	208.8	89.59	2.11
10.1	125.83	54.06	1.21
10.16	226.03	80.42	0
10.22	233.23	75.38	0
10.25	134.16	50.88	4.6
10.27	215.83	69.21	0
11.18	20.51	65.21	0
11.48	27.95	50.52	0
11.86	211.14	61.5	0
12.59	13.39	58.48	0
12.79	12.24	64.97	0
13.02	18.32	66.92	0
13.09	7.96	71.54	0
13.17	14.63	65.72	0
13.66	97.74	69.78	0
13.75	261.19	72.62	11.83
13.91	191.31	88.83	0.95
14	266.33	41.94	3.85
14.33	317.78	62.48	0
14.47	254.77	71.07	0
14.62	11.39	72.48	0
14.91	14.81	62.89	0
15.06	358.86	60.73	0
15.34	22.23	63.49	17.5
15.44	17.04	67.14	15.48
15.64	28.61	67.12	1.61
15.67	15.45	56.11	0
15.85	12.64	21.4	0
15.94	13.47	87.73	0
16.45	17.24	55.93	0.41
16.5	23.37	64.83	0.92
16.72	190.77	42.37	7.02
17.1	23.61	71.01	0
17.29	24.32	62.27	0.76
17.57	221.13	16.26	1.32
17.89	167.61	86.83	0
18.17	19.07	71.87	0
18.34	200.57	36.19	0
18.67	176.78	54.95	2.38
19.47	38.41	87.68	0.06
20.02	24.23	64.31	0
20.34	29.8	89.04	0
20.53	249.18	33.26	0
20.62	337.35	28.69	0
20.78	40.42	83.54	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
20.9	249.06	32.86	0
21.28	16.64	85.64	0.86
21.42	36.54	83.48	0
21.48	38.38	73.25	0
21.58	31.83	68.77	1.15
22.27	222.28	15.44	0
22.49	65.63	7.83	0.93
22.62	265.96	49.92	0
22.85	235.89	71.2	0
23.29	173.64	53.05	1.19
23.4	238.64	77.22	0
23.63	190.41	67.09	0
23.71	63.36	86.45	0
24.32	171.15	79.97	1.72
24.84	248.41	72.59	0
25.35	19.06	3.48	0
25.4	322.91	49.82	0
25.74	63.94	35.06	0
25.78	244.24	86.34	1.03
26.11	12.16	73.66	0
26.84	35.71	77.39	0
27.3	66.91	22.35	0
27.47	135.62	44.61	0
28.09	10.28	11.64	0
28.3	34.06	37.19	0
28.44	240.26	69.55	0
28.75	148.56	44.14	0
29.39	33.24	89.06	1.02
30.11	308.07	43.7	0.81
30.46	356.88	33.01	1.96
30.86	262.1	21.96	0
31.66	260.43	67	1.16
32.47	189.28	75.72	0
32.85	29.75	36.82	0
33.05	353.04	18.38	0
33.71	258.4	71.77	0
34.01	355.34	33.49	0
34.18	0.58	42.52	0
34.39	308.09	26.13	0.98
34.66	261.36	78.56	1.99
34.77	168.32	49.85	2.35
34.93	28.15	71.04	0
35.07	162.45	32.18	0
35.29	47.53	32.44	0
35.36	43.48	35.52	0
35.63	243.66	12.64	0
35.67	23.31	33	0
35.98	28.41	68.89	0
36.11	43.84	85.81	0
36.94	219.45	88.88	0
37.12	33.36	59.19	0

Table D19 Fracture orientation and apertures for BL-0322 (Page 2 of 2).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
37.17	32.66	81.09	0
37.32	38.03	41.71	0
37.96	147.22	63.71	0
38.4	2.82	41.97	0
38.97	191.85	40.17	0
39.06	195.56	79.23	0
39.38	35.87	82.12	0
39.88	201.52	80.01	0
40.14	246.76	81.71	0
40.29	162.12	24.59	0
40.45	54.96	88.58	0
40.65	12.39	83.13	0.79
41.19	263.18	78.59	0.95
41.35	186.61	81.02	0
42.39	340.26	39.49	0
42.57	304.41	26.67	0
43	17.64	6.91	0
43.12	15.42	25.17	1.08
43.34	327.19	33.23	0
43.41	16.35	23.7	0
43.65	345.78	14.86	0
43.93	340.75	24.16	0
43.96	166.88	43.24	0
44.16	354.96	29.21	0
44.2	145.23	23.91	0
44.55	1.64	31.64	0
44.64	2.12	26.31	0
44.71	6.54	27.36	0
44.84	257.84	70.75	2.3
44.95	353.95	25.93	0
45.3	29.58	31.26	0
45.61	37.05	28.36	0
45.74	117.56	16.03	1.09
46.42	326.51	31.09	0
46.78	353.15	20.74	0
46.87	264.8	55.53	0
47.28	199.18	71.3	0
47.48	21.42	87.75	0
47.62	166.45	45.62	0
47.85	265.79	86.08	2.44
47.87	240.34	37.51	0
48.08	187.97	46.68	0
48.53	194.46	58.69	0
49.52	261.67	81.52	0
49.66	263.21	26.9	0
50.33	38.99	69.53	0
50.48	38.76	73.56	0
50.57	266.85	31.23	0
50.69	155.32	24.13	0
50.9	203.12	53.23	0
51.01	180.03	9.85	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
51.46	5.01	28.2	0
52.34	41.08	79.69	0.83
52.49	28.06	75.2	0.71
52.72	28.08	81.58	0
53.31	213.04	71.88	0
53.55	31.66	68.92	0
54.05	27.31	65.73	0
54.36	23.44	38.08	0
54.38	50.88	81.91	0
54.74	37.82	64.86	0
54.82	239.01	59.85	0
55.04	15.8	42.61	0
55.33	236.99	56.21	0
56.91	41.46	64.38	11.05
57.3	35.36	57.32	78.23
58.19	356.65	39.32	4.39
58.54	16.63	58	0
58.55	20.08	73.09	1.23
58.9	19.49	35.11	0
59.24	33.68	70.97	0.62
59.83	207.29	83.62	0
59.97	356.92	36.82	0
60.03	347.28	33.67	0
60.41	216.16	55.01	0
60.68	21.35	79.76	0
61.03	227.06	79.84	0
61.65	30.75	73.53	1.33
61.93	15.76	85.33	0
62.48	186.9	87.45	0
62.62	39.13	71.71	0.65
63.24	24.1	42.5	3.87
64.04	325.57	38.5	0
64.13	232.97	85.65	0
64.27	24.38	81.21	0
64.3	30.7	81.71	0
64.69	5.64	25.36	0
65.1	78.75	86.84	0
65.16	29.88	86.52	0
65.39	209.41	77.78	0
65.69	231.52	88.54	0
65.91	20.08	62.77	0
66.42	19.45	74.82	0
66.7	311.61	23.73	0
67.35	8.98	79.92	0
67.65	203.05	85.45	0
67.97	76.42	15.21	0
68.15	24.42	77.39	0
68.51	24.39	38.39	0
69.48	336.49	32.34	0
End			

Table D20 Fracture orientation and apertures for BL-0334 (Page 1 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
5.96	8.58	41.84	0
6.02	6.12	24.77	0
6.16	354.61	29.62	0
6.27	24.74	23.54	0
6.6	161.76	6.77	0
6.86	24.58	47.2	0
6.98	31.05	48.09	0
7.11	27.24	64.89	0
7.22	358.51	15.37	0
7.38	27.22	24.56	0
7.46	64.36	20.19	0
7.7	17.32	41.52	0
7.75	17.67	23.94	0
7.82	15.51	43.5	0
7.86	333.98	24.46	0
7.94	18.91	76.64	0
8.07	60.45	86.22	3.32
8.31	343.31	32.17	0
8.37	5.35	29.87	0
8.52	16.44	27.44	0
8.73	10.5	30.64	0
8.79	18.99	27.27	0
8.83	35.64	51.46	0
8.9	4.57	38.33	0
8.97	13.24	30.5	0
9	20.64	34.63	0
9.25	11.12	29.41	0
9.51	19.12	34.6	0
9.57	359.22	22.79	0
9.66	4.38	27.96	0
9.71	26.28	28.95	0
9.76	11.72	23.93	0
9.83	1.87	27.71	0
9.9	18.51	60.49	0
9.98	18.61	29.38	1.35
10.01	359.66	29.68	0
10.07	0.47	33.85	0
10.16	32.48	21.49	0
10.22	7.75	28.34	0
10.27	23.46	6.01	0
10.33	343.06	29.8	0
10.33	30.06	41.46	0
10.38	350.46	17.85	0
10.44	327.17	22.7	0
10.49	358.75	19.34	0
10.53	17.94	75.73	2.05
10.6	52.02	72.09	1.31
10.7	333.62	16.31	2.14
10.83	346.93	21.81	0
10.86	351.49	23.22	0
10.91	333.45	14.62	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
10.98	349.99	22.26	0
11.12	223.76	77.67	0
11.14	319.85	20.98	0.97
11.24	17.23	24.74	0
11.32	330.7	23.09	0
11.38	320.36	26.87	0
11.57	14.36	25.4	0
11.78	0.2	39.42	0
11.94	10.85	41.19	0
12.06	15.74	46.54	0
12.32	20.84	77.18	0
12.45	302.82	15.56	0
12.63	8.04	52.5	0
12.68	10.24	55.7	0
12.72	8.64	41.64	0
12.95	213.63	14.06	0
14.2	84.32	85.51	0
14.73	20.21	25.98	0
14.82	332.84	20.11	0
15	324.3	20.73	0
15.22	10.77	27.68	97.49
15.3	326.73	15.49	4.17
15.32	358.76	13.78	0
15.38	349.11	20	43.83
15.44	354.22	28.06	0
15.47	343.41	30.53	0
15.51	325.53	18.48	0
15.53	315.26	18.71	0
15.64	357.81	30.32	0
16.08	345.46	21.89	0
16.22	58.37	84.21	0
16.26	330.29	15.61	1.05
16.32	351.31	14.64	0
16.39	347.76	22.55	0
16.42	3.55	24.68	3.7
16.45	1.69	25.07	3.66
16.81	35.11	75.8	0
16.95	307.62	15.94	0
17.04	311.67	14.86	0
17.06	300.41	18.91	0
17.13	311.81	19	0
17.16	339.41	14.08	3.33
17.23	57.78	14.9	0
17.3	357	30.74	0
17.32	359.66	27.95	0
17.36	54.97	71.24	0
17.39	0.86	40.1	0
17.41	4.63	39.35	0
17.49	15.94	62.83	3.5
17.53	10.78	56.1	0
17.58	316.84	20.4	0

Table D20 Fracture orientation and apertures for BL-0334 (Page 2 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
17.66	293.91	15.64	0
17.74	9.96	33.43	0
17.79	331.54	19.68	0
17.83	320.37	21.47	0
17.9	346.28	21.59	18.13
17.96	353.43	19.56	0
17.99	6.2	27.79	0
18.01	344.53	25.17	0
18.06	13.72	49.86	0
18.09	16.15	49.41	0
18.12	41.34	35.05	0
18.16	1.15	7.31	0
18.18	7.7	20.95	2.51
18.2	352.51	20.89	0
18.29	12.14	45.01	0
18.36	14.77	23.87	0
18.42	351.04	31.54	0
18.55	11.62	35.37	0
18.73	31.92	40.13	0
18.79	59.51	77	0
18.84	286.9	16.17	0
18.91	22.51	45.85	0
19.31	12.74	33.61	0
19.41	21.6	34.18	0
19.5	22.22	35.37	0
19.55	33.5	19.29	0
19.59	21.1	23.43	0
19.61	13.43	22.59	0
19.65	25.51	35.23	0
19.74	351.13	27.1	3.49
19.78	319.53	14.77	1.02
19.86	21.57	34.03	0
19.9	12.52	49.33	0
20.82	121.22	5.58	0
21.15	55.4	84.48	0
21.72	11.14	27.9	0
21.79	20.34	45.3	2.7
21.87	3.57	20.79	0
21.91	15.93	37.64	0
21.93	5.01	26.51	0
21.97	328.61	17.2	2.1
22.01	11.71	26.97	1.3
22.04	356.54	21.32	2.4
22.08	354.05	25.01	0
22.1	351.69	21.99	2.34
22.12	359.2	22.79	0
22.18	0.1	19.02	0
22.23	3.47	22.14	0
22.27	13.08	21.91	0
22.29	12.73	18.55	0
22.34	16.52	28.28	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
22.48	11.9	22.72	0
22.54	27.77	60.15	2.62
22.6	353.44	12.83	0
22.79	29.94	71.03	0
22.85	10.3	60.76	0
22.96	11.61	56.95	0
23	356.58	55.47	0
23.28	34.61	66.83	0
23.38	34.12	70.31	0
23.5	324.01	15.54	0
23.55	16.45	34.23	0
23.59	52.88	19.29	0
23.61	333.94	16.96	0
23.67	350.94	20.16	0
23.75	293.96	3.37	6.39
23.98	345.85	13.88	0
24.06	355.94	40.87	0
24.1	33.45	33.86	0
24.21	137.94	63.99	1.87
24.25	6.48	22.1	0
24.34	8.23	22.29	0
24.37	356.82	25.35	0
24.43	355.88	18.3	0
24.54	20.28	48.9	0
24.72	21.94	72.89	3.35
24.86	30.31	49.83	0
24.98	31.09	66.27	0
25.68	353.86	18.23	0
25.71	342.32	15.65	0
25.75	335.97	23.2	0
25.82	17.71	37.26	0
25.88	352.6	12.58	0
25.96	34.72	16.62	0
26.03	6.55	25.32	0
26.07	14.15	31.9	0
26.1	1.68	19.77	0
26.13	22.12	16.22	0
26.21	10.8	28.62	0
26.26	21.81	54.65	0
26.29	26.25	61.62	3.85
26.32	26.07	46.35	0
26.37	352.85	28.56	0
26.45	348.64	22.49	0
26.55	29.13	22.46	0
26.63	16.91	22.07	0
26.72	345.85	15.33	0
26.82	0.16	19.36	0
27.01	22.28	33.65	1.31
27.1	12.23	22.78	0
27.16	359.45	37.26	0
27.35	9.07	18.91	2.52

Table D20 Fracture orientation and apertures for BL-0334 (Page 3 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
27.41	16.49	21.97	0
27.48	150.4	28.62	0.96
27.5	16.77	56.31	0
27.65	18.02	69.66	7.56
27.74	18.66	60.27	0
28.05	359.92	28.41	0
28.08	353.7	28.73	0
28.11	26.28	51.39	0
28.14	8.59	51.55	0
28.2	5.82	44.83	1.22
28.24	10.93	30.42	0
28.29	0.28	16.87	0
28.3	25.8	79.69	0
28.34	19.44	86.12	0
28.38	1.97	36.13	3.67
28.41	222.58	18.3	2.22
28.45	23.33	60.89	0
28.55	354.46	18.77	0
28.58	264.16	0.99	0
28.6	179	0.18	0
28.71	40.33	72.52	0
28.77	24.19	55.91	0
28.83	12.27	20.43	0
28.89	23.81	47.91	0
28.96	14.67	44.97	0
29.1	24.45	40.02	0
29.14	4.54	30.6	0
29.27	12.06	24.85	0
29.34	13.11	23.27	0
29.38	18.05	26.46	0
29.53	113.81	82.73	1.44
29.65	47.21	42.21	2.97
29.75	0.66	31.02	0
29.96	41.67	37.27	0
30.37	25.85	45.96	0
30.42	60.93	66.48	0
30.43	22.77	24.73	0
30.59	17.1	18.48	1.29
30.62	30.42	24.77	0
30.64	26.26	29.42	0
30.81	19.75	40.28	0
30.87	6.27	27.65	0
30.89	3.33	22.68	0
30.97	32.81	60.46	0
31.06	21.91	31.2	2.71
31.09	20.87	31.62	0
31.15	27.08	29.85	0
31.18	20.03	40.63	0
31.3	3.87	14.24	0
31.37	48.31	51.4	0
31.45	3.18	20.85	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
31.73	17.39	26.86	2.64
31.79	11.97	38.84	0
31.91	344.06	16.43	0
32.08	28.07	62.71	0
32.14	355.19	39.71	0
32.19	10.39	39.11	0
32.23	22.09	51.24	0
32.32	21.53	69.19	2.22
32.32	330.38	17.39	1.05
32.54	45.11	46.34	0
33.02	18.86	38.36	0
33.64	36.06	89.34	0
33.69	30.03	85.25	2.9
33.81	22.3	14.28	0
34.13	266.35	84.7	2.4
34.15	251.47	78.09	0
34.31	39.76	36.47	0
34.41	7.67	36.75	0
34.45	15.96	36.87	0
34.55	354.41	21.04	0
34.62	17.79	67.61	0
34.91	318.74	18.2	0
35.09	350.08	20.4	0
35.22	357	38.56	0
35.3	48.5	59.49	0
35.39	133.24	19.9	0
35.7	277.96	23.41	0
35.98	86.52	2.9	0
36.04	25	21.14	0
36.32	187.46	8.52	0
36.62	227.12	72.98	0
37.04	57.48	55.03	0
37.28	32.29	46.73	0
38.93	225.18	5.7	0
39.3	16.67	14.12	5.07
39.36	10.18	20.25	26.84
39.49	19.12	32.92	5.44
40.73	257.92	83.65	0
40.79	256.76	24.41	0
41.04	8.98	26.17	0
41.08	332.17	11.95	0
41.23	1.25	21.3	1.23
41.29	12.58	13.19	0
41.51	11.18	41.3	0
41.57	16.72	19.36	0
41.62	13.2	23.26	0
41.79	13.19	8.92	0
41.95	257.07	9.26	0
42.03	275.68	14.12	0
42.08	6.05	20.61	0
42.41	5.53	13.85	0

Table D20 Fracture orientation and apertures for BL-0334 (Page 4 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
42.56	5.6	13.94	0
42.69	5.17	14.05	4.88
42.94	260.7	83.66	0
42.98	45.04	43.94	0
43.04	12.49	21.66	0
43.07	27.81	51.99	0
43.13	321.09	6.49	0
43.15	341.2	12.65	0
43.28	43.48	45.96	0
43.58	282.48	11.77	3.75
43.62	310.91	15.1	0
43.67	341.87	11.65	2.26
43.78	311.8	13.95	3.01
43.81	14.64	20.96	5.18
43.84	13	33.16	5.25
43.93	3.64	12.47	0
43.95	6.2	26.19	0
43.99	3.38	17.09	0
44.01	1.39	15.4	0
44.04	0	7.84	0
44.07	309.59	9.53	0
44.12	333.32	13.79	0
44.22	39.24	66.44	0
44.24	37.26	69.9	0
44.39	29.58	76.39	1.13
46.78	8.12	19.49	17.98
46.8	359.78	22.98	1.23
46.84	24.3	25.55	1.36
46.85	26.11	22.45	2.71
46.89	15.39	22.55	2.62
46.91	9.66	20.73	0
47.01	10.57	23.6	0
47.04	18.48	16.89	0
47.09	352.81	21.54	0
47.2	42.97	6.82	0
47.27	231.46	78.18	1.57
47.35	329.21	5.97	0
47.44	20.23	38.97	0
47.77	20.48	34.22	4.1
47.96	53.14	27.77	0
48.07	179.75	9.75	0
48.11	179.31	3.76	0
48.2	156.34	9.93	0
48.32	354.79	17.31	0
48.42	351.22	32.82	0
48.67	9.29	37.05	0
49.03	5.63	26.12	0
49.05	7.4	29.68	0
49.1	13.36	23.84	0
49.11	357.32	24.32	4.89
49.15	356.71	23.36	12.9

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
49.21	358.97	17.64	77.27
49.28	10.55	19.84	0
49.3	15.93	23.9	0
49.34	5.57	32.69	0
49.38	15.56	33.92	0
49.41	19.28	36.32	0
49.44	30.56	36.02	0
49.47	36.22	26.75	0
49.5	37.49	23.25	0
49.56	6.86	21.94	0
49.62	357.83	25.62	0
49.64	7.61	19.56	0
49.67	11.98	27.15	5.22
49.71	2.44	24.46	3.74
49.77	15.33	20.56	0
49.79	14.84	20.9	0
49.8	9.51	21.4	0
49.82	20.94	22.28	0
49.84	21.42	26.53	0
49.87	19.27	12.47	0
49.88	28.16	55.58	0
49.92	11.48	31.85	0
49.93	352.78	18.38	0
49.95	350.59	13.83	0
50.05	46.99	89.33	0
50.11	350.3	18.51	3.73
50.26	20.74	24.48	0
50.3	21.51	22.09	4
50.32	6.39	17.41	0
50.63	29.71	13.71	0
50.69	33.76	20.17	0
50.71	6.32	19.09	5.02
50.73	14.05	17.35	0
50.75	13.22	18.68	6.41
50.77	19.69	13.44	2.53
50.79	3.33	12.85	0
50.8	350.29	18.4	0
50.82	355.37	16.34	0
50.84	351.38	13.09	4.7
50.86	356.25	14.65	3.59
50.88	12.4	14.68	0
50.9	14.12	19.4	2.58
50.94	18.26	20.23	0
50.97	32.43	23.55	0
50.99	33.89	25.57	2.8
51.01	43.96	19.41	0
51.02	36.07	15.4	0
51.05	11.98	17.73	3.82
51.08	220.01	75.5	0
51.08	6.02	16.62	3.66
51.38	1.1	18.63	0

Table D20 Fracture orientation and apertures for BL-0334 (Page 5 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
51.41	351.62	15.73	0
51.43	349.42	17.71	3.52
51.47	358.69	13.86	2.41
51.5	353.89	18.46	0
51.55	34.29	24.05	2.79
51.57	4.32	20.12	1.26
51.59	13.08	15.74	1.27
51.63	20.98	17.84	2.62
51.65	2.14	18.21	1.24
51.74	12.21	17.41	0
51.77	359.35	20.46	0
51.8	357.15	13.33	0
51.84	7.38	16.88	5.02
51.89	10.12	17.76	0
51.92	18.29	15.19	16.68
51.98	5.79	18.24	1.26
52.01	353.18	9.7	1.18
52.04	359.35	15.8	0
52.07	1.05	16.07	2.47
52.1	0.27	19.33	0
52.17	11.19	22.23	1.3
52.21	19.11	11.43	0
52.22	18.84	10.39	0
52.31	6.37	16.42	0
52.36	7.79	16.84	0
52.39	5.09	17.04	6.27
52.68	23.36	13.72	0
52.88	22.55	26.41	0
53.53	213.54	3.23	0
53.73	25.01	24.46	0
54.03	57.07	79.09	1.19
54.13	34.64	70.94	0
54.21	44.94	79.73	0
54.63	83.07	84.8	0
54.74	351.67	71.87	0
55.6	5.27	12.46	0
56.1	313.2	25.57	0
56.76	344.85	21.4	0
57.25	40.17	51.16	0
57.36	211.39	80.05	0
57.73	31.47	19	0
57.98	5.59	7.7	0
58.28	73.69	16.63	0
58.84	343.07	18.3	0
59.85	11.88	37.31	0
59.9	23.74	32.12	0
60.3	37.59	38.51	0
60.39	32.7	32.08	1.43
60.48	44.75	33.71	0
60.57	38.06	23.05	0
60.7	27.21	28.62	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
60.72	27.66	25.08	0
60.74	29.66	23.57	0
60.82	8.94	21.18	0
60.97	27.13	17.71	0
61.02	38.9	28.08	0
61.22	43.14	14.4	3.99
61.25	32.97	24.77	2.82
61.3	44.83	78.16	0
61.3	27.58	22.64	0
61.36	33.92	61.02	0
61.4	8.22	57.69	1.16
61.44	12.93	22.55	0
61.46	229.52	85.06	0
61.48	25.63	20.12	2.69
61.58	21.27	74.01	1.06
61.61	217.88	87.97	2.65
61.71	25.74	29.04	5.6
61.79	37.24	29.16	0
61.83	36.42	18.92	2.74
61.83	233.04	79.42	0
61.96	28.74	20.64	4.1
61.98	38.55	89.7	0.94
62.09	23.01	18.18	1.32
62.12	29.05	29.92	12.79
62.26	359.54	16.02	0
62.32	21.48	21.6	0
62.71	43.83	28.4	0
62.84	29.47	34.44	1.44
62.86	20.48	27.84	1.37
62.98	44.93	32.22	2.94
63.05	31.77	19.85	15.02
63.08	27.62	81.44	0
63.3	55.64	21.26	52.13
63.37	39.76	32.33	1.46
63.66	10.17	16.83	5.14
63.73	22.38	22.19	1.36
63.8	20.9	26.13	0
64.24	26.75	33.7	4.26
64.31	20.5	37.66	34.86
64.4	70.76	31.32	0
64.57	26.98	22.35	0
64.9	39.17	35.58	0
64.96	340.41	33.12	0
65.16	347.96	27.62	0
65.29	13.54	51.22	0
65.58	16.44	44.8	4.07
65.84	315.43	9.49	0
65.89	219.57	9.53	0
65.91	68.16	72.91	0
66.07	0.1	83.73	0
66.86	35.19	56.47	0

Table D20 Fracture orientation and apertures for BL-0334 (Page 6 of 6).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
66.95	357.76	28.88	0
67.48	29.43	51.93	0
67.56	4.94	89.95	0
67.96	326.92	6.45	2.26
68.22	11.51	49.34	0
68.56	25.12	33.23	1.41
68.72	55.54	41.14	274.5
68.78	34.1	72.06	7.33
68.9	31.78	85.36	2.95
68.98	25.38	37.19	0
69.08	50.36	16.12	2.72
69.28	76.27	9.96	0
69.31	19.19	47.76	2.67
69.48	266.54	3.77	1.07
69.5	77.94	4.69	3.61
69.55	318.17	19.31	2.03
69.58	326.03	27.71	1.98
69.65	254.5	1.41	0
69.67	267.25	7.78	0
70.89	14.32	55.38	0
71.02	273.48	14.48	0
71.46	26.47	51.81	0
71.55	25.69	75.56	0
71.75	18	40.84	0
73.54	36.78	40.36	5.85
73.65	26.88	57.29	0
73.66	26.23	56.62	0
73.88	26.87	40.06	0
73.96	24.96	27.67	0
74.09	13.69	28.21	0
74.32	33.52	23.97	0
74.46	32.28	52.02	0
74.75	36.67	56.39	0
74.82	354.32	29.21	0
75.16	59.88	44.78	0
75.25	330.86	19.77	0
75.54	20.29	23.18	0
75.67	12.15	42.51	0
75.74	31.68	36.92	0
75.91	26.94	49.89	0
76.2	5.23	15.31	3.75
76.22	23.09	18.75	6.65
76.3	23.35	35.28	1.39
76.52	18.74	35.54	0
76.75	17.07	23.54	0
76.77	348.2	10.49	2.36
76.8	8.17	13.22	9.98
78.92	35.85	88.38	0
79.41	161	15.47	16.36
81.71	29.77	31.55	0
81.82	346.48	8.11	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
81.87	14.28	18.29	0
82.2	27.01	27.03	0
82.27	340.65	14.15	0
82.38	8.14	25.87	0
82.89	345.94	19.79	0
83.35	354.61	2.72	3.09
83.36	256.44	17.43	0
83.46	2.39	14.86	0
83.65	209.49	79.46	0
84.42	51.71	79.17	0
84.48	18.1	86.51	0
84.63	10.82	19.83	3.51
85.33	22.99	74.1	0
85.85	52.12	18.39	9.26
86.87	34.26	22.87	3.74
86.87	315.99	29.61	2.4
86.92	357.45	24.33	0
86.95	358.89	11.41	0
87.09	216.81	80.42	1.9
87.12	30.59	79.81	0
87.64	51.23	74.82	0
88.71	359.5	27.17	0
88.76	340.43	16.69	0
90.01	334.48	18.23	0
92.1	39.52	73.46	0
93.26	43.85	60.81	0
93.85	33.48	30.06	0
95.31	28.97	27.58	0
96.2	69.36	78.83	0
96.9	4.9	23.63	0
97.01	12.7	34.96	0
97.28	35.12	58.62	0
97.38	18.77	59.56	0
98.71	333.87	14.82	0
99.22	42.39	19.87	0
99.29	15.08	17.63	0
99.49	20.73	14.79	0
End			

Table D21 Fracture orientation and apertures for BL-0357 (Page 1 of 2).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
4.91	219.92	84.06	0
5.58	39.71	16.76	1.64
5.69	74.72	15.55	0
6.13	350.57	51.76	0
6.46	225.66	82.62	0
6.61	252.23	51.27	0
7.76	307.12	85.41	0.91
8.4	33.04	31.12	0
9.6	302.79	16.28	0
9.9	301.23	82.37	2.09
10.9	288.33	22.81	0
11.84	101.62	10.68	0
11.96	25.05	39.91	0
12.36	35.77	33.55	0
13.02	305	84.35	0.95
13.32	306.64	84.7	1.92
13.47	210.55	36.85	0
14.05	196.01	77.38	0
14.22	72.8	19	0.67
14.28	254.64	11.51	0
14.75	337.03	48.53	1.85
15	235.43	54.42	0
15.2	6.39	16.16	0
15.55	256.62	20.3	2.7
15.62	221.07	37.12	0
15.73	268.84	27.65	22.88
15.87	32.19	39.8	0
15.89	294.1	40.5	0
16.01	266.18	25.1	0
16.07	17.55	31.94	0
16.12	175.21	13.43	0
16.3	281.07	72.26	0
16.37	32.83	46.45	0
16.76	27.05	46.97	0
17.19	22.68	54.16	0
17.2	11.55	26.47	0
17.35	31.55	45.15	0
17.8	2.73	11.62	0
17.88	36.14	23.71	0
18	28.84	29.53	0.68
18.03	23.71	27.01	0
18.29	249.94	73.43	0
18.31	281.87	69.55	0
18.41	295.9	75.08	0
20.23	203.41	44.01	1.12
20.45	293.06	79.96	0
22.59	309.37	84.41	0
23.01	16.15	47.99	0
23.48	19.21	38.6	0
23.51	15.78	36.98	0
23.56	23.67	37.24	0

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
23.6	26.33	39.95	0
23.72	23.05	44.19	4.7
23.76	19.03	37.19	4.99
23.96	23.79	37.34	0
24.13	339.03	25.89	0
24.16	346.71	31.29	0
24.56	13.8	32.82	1.49
24.6	16.69	37.18	1.92
24.63	14.91	37.71	0
24.87	352.18	31.75	0
25.35	42.01	33.18	0
25.96	31.57	31.26	0
26.1	41.24	30.32	0
26.19	28.15	30.79	0
26.63	25.7	33.01	0
26.86	40.05	20.88	0
27.12	12.97	27.24	0
27.27	11.5	28.88	0
27.57	5.02	40.98	0
27.79	7.64	47.82	0
27.98	10.64	39.94	0
28.18	300.4	63.61	0
28.35	19.68	31.02	0
28.45	15.6	21.96	0.87
28.6	16.71	27.28	0
29	9.56	30.48	0
29.32	15.93	27.66	0
29.36	28.02	23.69	0
29.46	11.42	31.01	0
29.49	17.08	32.32	0
30.41	329.03	26.04	0
31.38	4.07	42.83	0
31.99	286.87	8.24	8.49
32.23	7.27	37.71	4.74
32.59	15.53	37.67	0
34.44	6.93	21.47	0
34.76	339.43	15.11	1.11
38.94	34.36	15.91	0.86
39.83	69	84.59	0
42.52	20.78	45.44	0
43.24	35.09	21.39	0
43.56	351.93	31.83	0
45.12	218.34	89	0
46.43	229.4	77.41	0
47.04	223.28	69.79	0
48.97	312.88	78.31	0
49.04	337.81	10.11	0
49.88	359.93	50.19	0
51.23	343.45	32.84	0
51.85	11.39	32.06	0
52.72	31.96	27.91	0

Table D21 Fracture orientation and apertures for BL-0357 (Page 2 of 2).

Depth (m)	Azimuth (deg)	Dip (deg)	Aperture (mm)
52.9	295.66	80.13	0
56.11	344.05	12.17	0
57.26	349.9	37.63	0
57.69	334.64	26.2	2.3
58.17	337.96	24.79	0
59.06	10	17.33	0
59.57	260.92	24.82	0
60.69	108.54	89.26	1.85
61.67	278.13	22.37	0
61.8	350.07	31.35	0
61.83	318.71	17.38	7.38
61.86	345.56	7.63	5.53
61.94	309.69	17.66	0
62.11	273.13	20.05	1.38
62.2	303.55	17.02	2.59
62.24	319.78	24.12	2.53
62.28	305.6	13.24	1.25
62.31	9.52	21.54	2.8
62.38	328.46	23	1.21
62.48	339.24	19.71	0
62.64	357.99	27.74	0
62.7	329.51	15.37	5.94
62.75	8.88	26.31	0.91
62.86	4.8	19.41	0.98
62.9	0.48	17.05	3.04
63.03	354.08	26.36	2.04
63.1	336.4	24.51	2.38
63.17	307.51	20.22	1.32
63.23	340.3	18.12	2.34
63.44	350.23	19.26	3.27
63.83	41.97	33.74	0
64.04	21.21	19.51	2.8
64.09	22.98	28.3	1.6
64.18	351.33	41.79	2.82
64.56	18.31	30.35	2.46
64.58	12.46	23.66	0
64.69	28.85	20.71	0.9
64.79	23.32	20.88	1.75
64.9	13.75	33.68	6.37
64.98	38.6	34.28	4.59
65.02	34.1	37.69	4.4
65.15	42.02	31.23	2.41
65.25	31.57	38.12	2.28
End			

# ACOUSTIC TELEVIEWER LOG



**Fracflow Consultant Inc.**  
Environmental, Hydrogeological and  
Geotechnical Engineering Consultants

**Project Location:** Springpole, ON  
**Borehole ID:** BL-0024  
**Report Date:** December 2019  
**Logging Date:** August 12, 2019  
**Logging Depth (m):** 243.5

**Easting:** 548927.4  
**Northing:** 5693981.8  
**Bearing at the collar:** 024  
**Plunge at the collar:** -60  
**Borehole Depth (m):** 252

**Client:** First Mining Gold  
/ Gold Canyon Resources  
**FFC Reference No:** FFC-NL-3134-002  
**Figure No.:** D1

