

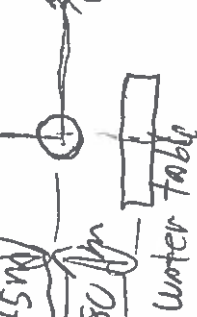
CE (1260.6m) ^{5.7} ← Should be 1261.45

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis: 70
 Azimuth of Y-Axis: 0

0.59m Above CL

Reference Phone: Offset
 Azimuth
 Elev. -0.15m below 8.4
 X = 0
 Y = +0.75m

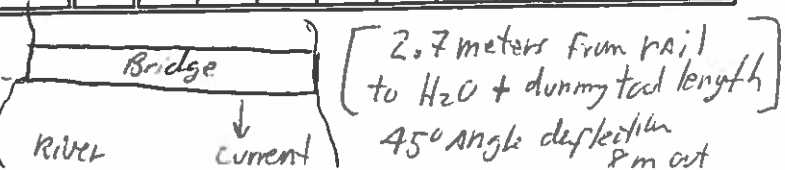


Channel Configuration:
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization: Azl. (deg.) Vert. (deg.)
 V 0 0
 R 0 90
 T 270 90

Date: 17 May 95 Location: Burley, Idaho DH-98-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

14.6m from roadway



Shot			Borehole Geophone		Source					Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical	
1	BUR00001	26.5		0.8		0	0	-0.8m	90	90	
2		26.5							270	90	
3		26.0							90	90	
4		26.0							270	90	
5		25.5							90	90	
6		25.5							270	90	
7		25.0							90	90	
8		25.0							270	90	
9		24.5							90	90	
10		24.5							270	90	

25 blows

(1)

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis: 90
 Azimuth of Y-Axis: 0

Reference Phone: 0.59 m above ϕ

Reference Phone: Offset _____
 Azimuth 0
 Elev. -15 m below ϕ
 X= 0
 Y= +15 m

Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization:
 Azl.(deg.)
 V 0
 R 0
 T 270

Vert.(deg.)
0
90
90

Date: 17 May 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot		Borehole Geophone			Source				Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
11	BUR00011	24.0		0.8		ϕ	0	-0.8 m	90	90
12		24.0							270	90
13		23.5							90	90
14		23.5							270	90
15		23.0							90	90
16		23.0							270	90
17		22.5							90	90
18		22.5							270	90
19		22.0							90	90
20		22.0							270	90

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis 90
 Azimuth of Y-Axis 0

Reference Phone: 0.59 m above G

Reference Phone: Offset _____
 Azimuth _____
 Elev. 15 m below gl
 X = 0
 Y = + .75 m

Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization:
 V 0
 R 0
 T 270

Vert. (deg.)
0
90
90

Date: 17 May 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot		Borehole Geophone			Source				Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
21	BUR0002V	21.5		0.8			0	-0.8 m	90	90
22		21.5							270	90
23		21.0							90	90
24		21.0							270	90
25		20.5							90	90
26		20.5							270	90
27		20.0							90	90
28		20.0							270	90
29		19.5							90	90
30		19.5							270	90

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis: 90
 Azimuth of Y-Axis: 0

0.57 m above

Reference Phone: Offset _____
 Azimuth _____
 Elev. -15 m below gl
 X= 0
 Y= + .75

Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization:
 V 0
 R 0
 T 270
 Azi.(deg.)
 Vert.(deg.)
0
90
90

Date: 17 May 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot		Borehole Geophone			Source				Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
31	BUR00031	19.0		0.8			0	-0.8m	90	90
32		19.0							270	90
33		18.5							90	90
34		18.5							270	90
35		18.0							90	90
36		18.0							270	90
37		17.5							90	90
38		17.5							270	90
39		17.0							90	90
40		17.0							270	90

(4)

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis 90
 Azimuth of Y-Axis 0

0.59 m above G

Reference Phone: Offset _____
 Azimuth _____
 Elev. -15 m below GL
 X= 0
 Y= +75

Channel Configuration:
 Borehole Phone
 V=Channel 4
 R=Channel 5
 T=Channel 6

Reference Polarization:
 V 0
 R 0
 T 270
 Azi.(deg.)
 Vert.(deg.)
0
90
90

Date: 17 May 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot		Borehole Geophone		Source					Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
41	BUR00041	16.5		0.8		4	0	-0.8m	90	90
42		16.5							270	90
43		16.0							90	90
44		16.0							270	90
45		15.5							90	90
46		15.5							270	90
47		15.0							90	90
48		15.0							270	90
49		14.5							90	90
50		14.5							270	90

Time 1348
 20
 Blows

(5)

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: 4136 feet AMSL 0.59 m above Φ

Azimuth of X-Axis 90

Azimuth of Y-Axis 0

Reference Phone: Offset

 Azimuth

Elev. -0.15 m below Φ

X= 0

Y= +0.75

Channel Borehole Phone Reference Phone

Configuration: V=Channel 1 V=Channel 4

R=Channel 2 R=Channel 5

T=Channel 3 T=Channel 6

Reference Polarization: Azi.(deg.) Vert.(deg.)

V 0 0

R 0 90

T 270 90

Date: 17 MAY 95 Location: Burley, ID DH-95-6

High Cut 1000 Hz Low Cut 8 Hz Sample Int. 0.0025 Number of Samples 2500

Shot		Borehole Geophone			Source				Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
51	BUR00051	14.0		0.8		Φ	0	-0.8m	90	90
52		14.0							270	90
53		13.5							90	90
54		13.5							270	90
55		13.0							90	90
56		13.0							270	90
57		12.5							90	90
58		12.5							270	90
59		12.0							90	90
60		12.0							270	90

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis: 90
 Azimuth of Y-Axis: 0

Reference Phone: 0.59m above

Reference Phone: Offset
 Azimuth
 Elev. -0.15m below
 X= 0
 Y= +0.75

Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization:
 Azl. (deg.)
 V 0
 R 0
 T 270
 Vert. (deg.)
0
90
90

Date: 17 MAY 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot		Borehole Geophone		Source						Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical	
61	BUR00061	11.5		0.8			0	-0.8m	90	90	
62		11.5							270	90	
63		11.0							90	90	
64		11.0							270	90	
65		10.5							90	90	
66		10.5							270	90	
67		10.0							90	90	
68		10.0							270	90	
69		9.5							90	90	
70		9.5							270	90	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis 90
 Azimuth of Y-Axis 0

Reference Phone: 0.59m above G

Reference Phone: Offset
 Azimuth
 Elev. -15 m below GL
 X= 0
 Y= + .75

Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization:
 V=Channel 4
 R=Channel 5
 T=Channel 6

Date: 17 MAY 95 Location: Burley, ID DH-95-6

High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot		Borehole Geophone			Source			Source Polarization		
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
71	BVR00071	9.0		0.8			0	-0.8m	90	90
72		9.0							270	90
73		8.5							90	90
74		8.5							270	90
75		8.0							90	90
76		8.0							270	90
77		7.5							90	90
78		7.5							270	90
79		7.0							90	90
80		7.0							270	90

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis: 90
 Azimuth of Y-Axis: 0

Reference Phone: 0.59 m above

Reference Phone: Offset
 Azimuth
 Elev. ~.15 m below
 X= 0
 Y= + .75

Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization: Azi.(deg.) Vert.(deg.)
 V 0 0
 R 0 90
 T 270 90

Date: 17 MAY 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot		Borehole Geophone		Source					Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
81	BUR00081	6.5		0.8		4	0	-0.8m	90	90
82		6.5							270	90
83		6.0							90	90
84		6.0							270	90
85		5.5							90	90
86		5.5							270	90
87		5.0							90	90
88		5.0							270	90
89		4.5							90	90
90		4.5							270	90

1450
 15 blows
 ↓

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis: 90
 Azimuth of Y-Axis: 0

0.59 m above ϕ

Reference Phone: Offset _____
 Azimuth _____
 Elev. -15 m below JL
 X= 0
 Y= +75

Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization:
 V=Channel 4
 R=Channel 5
 T=Channel 6

Date: 17 MAY 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot			Borehole Geophone		Source					Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical	
91	BUR00091	4.0		0.8		4	0	-0.8m	90	90	
92		4.0							270	90	
93		3.5							90	90	
94		3.5							270	90	
95		3.0							90	90	
96		3.0							270	90	
97		2.5							90	90	
98		2.5							270	90	
99		2.0							90	90	
100		2.0							270	90	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis: 90
 Azimuth of Y-Axis: 0

Reference Phone: 0.5' m above G

Reference Phone: Offset _____
 Azimuth _____
 Elev. -15 m below JL
 X= 0
 Y= +15

Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization: Azi.(deg.) Vert.(deg.)
 V 0 0
 R 0 90
 T 270 90

Date: 17 MAY 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot		Borehole Geophone		Source					Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
101	BUR00101	1.5		0.8		0	0	-0.8m	90	90
102		1.5							270	90
103		1.0							90	90
104		1.0							270	90
105		0.5							90	90
106		0.5		LAST SH wave					270	90
107		26.5							0	180
108		26.0							0	180
109		25.5							0	180
110		25.0					V	V	0	180



15:44

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis 90
 Azimuth of Y-Axis 0

Reference Phone: 0.59m above ϕ

Reference Phone: Offset
 Azimuth
 Elev. -15 m below JL
 X= 0
 Y= +15 m

Channel Configuration: Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization: Azi.(deg.) Vert.(deg.)
 V 0 0
 R 0 90
 T 270 90

Date: 17 May 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot			Borehole Geophone		Source					Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical	
111	BUR00111	24.5		0.8		ϕ	0	-0.8 m	0	180	
112		24.0							0	180	
113		23.5							0	180	
114		23.0							0	180	
115		22.5							0	180	
116		22.0							0	180	
117		21.5							0	180	
118		21.0							0	180	
119		20.5							0	180	
120		20.0							0	180	

(12)

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis 90
 Azimuth of Y-Axis 0

Reference Phone: 0.59 m above

Reference Phone: Offset
 Azimuth
 Elev. -1.15 m below GL
 X = 0
 Y = +1.75 m

Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization:
 V 0
 R 0
 T 270

Vert. (deg.) 0
90
90

Date: 17 May 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot		Borehole Geophone		Source				Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Vertical
121	BUR00121	19.5		0.8			0	-0.8 m	180
122		19.0							180
123		18.5							180
124		18.0							180
125		17.5							180
126		17.0							180
127		16.5							180
128		16.0							180
129		15.5							180
130		15.0							180

16:07

Go to 130

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
Casing Elevation: 4136 feet AMSL
Azimuth of X-Axis 90
Azimuth of Y-Axis 0

0.59 m above G

Reference Phone: Offset _____
Azimuth _____
Elev. -15 m below J^L
X= 0
Y= +75 m

Channel Configuration: Borehole Phone
V=Channel 1
R=Channel 2
T=Channel 3

Reference Polarization: Azi.(deg.) Vert.(deg.)
V 0 0
R 0 90
T 270 90

Date: 17 May 95 Location: Burley, ID DH-95-6
High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot		Borehole Geophone			Source					Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical	
131	BUR00131	14.5		0.8		0	0	-0.8m	0	180	
132		14.0							0	180	
133		13.5							0	180	
134		13.0							0	180	
135		12.5							0	180	
136		12.0							0	180	
137		11.5							0	180	
138		11.0							0	180	
139		10.5							0	180	
140		10.0					V	V	0	180	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis 90
 Azimuth of Y-Axis 0

0.59 m above G

Reference Phone: Offset
 Azimuth 0
 Elev. -15 m below GL
 X= 0
 Y= +15 m

Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization:
 V 0
 R 90
 T 90

Date: 17 May 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. 0.0025 Number of Samples 2500

Shot		Borehole Geophone			Source				Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
141	BUR00141	9.5		0.8			0	-0.8m	0	180
142		9.0							0	180
143		8.5							0	180
144		8.0							0	180
145		7.5							0	180
146		7.0							0	180
147		6.5							0	180
148		6.0							0	180
149		5.5							0	180
150		5.0					V	V	0	180

16:40

(15)

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 4136 feet AMSL
 Azimuth of X-Axis 90
 Azimuth of Y-Axis 0

0.59 m above

Reference Phone: Offset _____
 Azimuth _____
 Elev. -0.15 m below
 X= 0
 Y= +0.75 m

Channel Configuration:
 V=Channel 1
 R=Channel 2
 T=Channel 3

Reference Polarization: Azl.(deg.) Vert.(deg.)
 V 0 0
 R 0 90
 T 270 90

Date: 17 May 95 Location: Burley, ID DH-95-6
 High Cut 1000 Hz Low Cut 8 Hz Sample Int. .00025 Number of Samples 2500

Shot			Borehole Geophone		Source					Source Polarization	
Rec	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical	
151	BUR00151	4.5		0.8		0	0	-0.8 m	0	180	
152		4.0							0	180	
153		3.5							0	180	
154		3.0							0	180	
155		2.5							0	180	
156		2.0							0	180	
157		1.5							0	180	
158		1.0							0	180	
159		0.5							0	180	

end of day

N A R



3 HR 7. minutes estimated for SW-wave survey

DOWN HOLE GEOPHONE FIELD CHECKLIST

Burley, Id.
VSP midwales

DATE: 17 May 95

ODOMETER START: 149.0 FINISH: 506.0

ITEMS AT GEOSCIENCES

ITEM	OUT	IN	COMMENT
SWC TOOL	✓	✓	
REF PHONE AND CABLES	✓	✓	
BISON	✓	✓	
TAPE MEASURE (50M)	✓	✓	
PULLEY AND WINCH ASSEM.	✓	✓	
DUMMY SWC TOOL	✓	✓	
SLEDGE HAMMER	✓	✓	
COMPASS	✓	✓	
ROCK HAMMER	✓	✓	
ROPE	✓	✓	
WD-40	✓	✓	
OBSERVER SHEETS/ MAPS	✓	✓	
GAS CARD/ KEYS	✓	✓	(Suburban Truck window hit by gravel from passing truck)
GLOVES	skip	—	

Electrical Tool Box

✓

ITEMS AT LINCOLN STREET

ITEM	OUT	IN	COMMENT
BISON CABLE BOX yellow	✓	✓	
BISON TOOL BOX little	✓	✓	(Used 1 roll paper for bison)
TOOL BOX Red	✓	✓	
TRIGGER CORD	✓	✓	
TRIPOD HEAD	✓	✓	
BATTERIES (2)	✓	✓	
Battery charger	✓ LOCATED IN GARAGE		
TRIPOD LEGS	✓	✓	
RAIL ROAD TIE	✓	✓	
SHOVEL	✓	✓	
PICK	✓	✓	
2 FT IRON ROD	skip	skip	
SAND BAGS	✓	✓	