

VSP Preliminary Data Sheet

Date: 13 JUL 98 Type of Phones 040 14N8

1. Well Name C2 URISP

$$\underline{\underline{\nabla = +847.735 \text{ m}}}$$

2. Location of Well

X= 10008.22 Y= 9999.97 Z= 850.25

Casing Elevation: 850.25

$$[1.55 \text{ m} + 1.02] = 2.57 \text{ m}$$

3. Depth to top of water table (measured from CE) 8.25 ft 2.5146 m

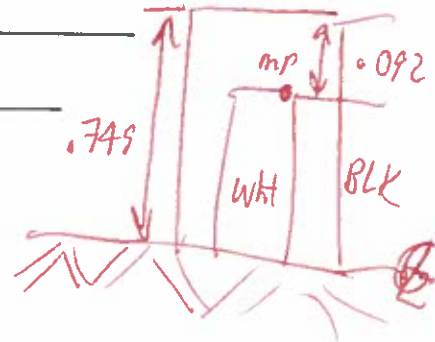
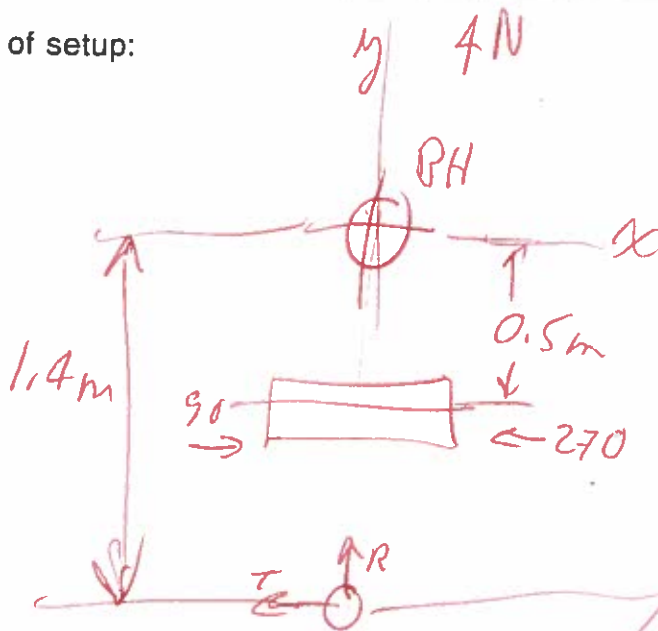
4. Casing Elevation, distance above ground level= .657

5. Reference phone offset from borehole= 1.40 m

6. Reference phone depth below ground level= 0

7. Source Offset from borehole= 0.5 m

8. Sketch of setup:



$$\begin{array}{r} .749 \\ .092 \\ \hline .841 \end{array}$$

$$(19.56 + 1.02 \text{ m}) \text{ T/D}$$

9. Blue Box switch settings:

Channel	Component
<u>1</u>	Vertical
<u>2</u>	Longitudinal (radial)
<u>3</u>	Transverse

Miles	
14884.7	14902.8
out	Return
9:00	13:17

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: 657 m above G.L.

Reference Phone: _____

Azimuth x-axis: 90°

Azimuth y-axis: 0°

Azimuth _____ m below G.L.

Well Coord: X = 10008.22

Y = 9999.97

Elev. 0 m

X = 0 m

Y = -1.90 m

Channel

Borehole Phone

Ref. Polarization: Az

Vert. 0

Configuration:

V=Channel 1

V 0

R 0

T 270

R=Channel 2

T=Channel 3

Az 0

Vert. 90

T=Channel 3

Location: C2

Sample Int. .0002

Number Samples 2500

Date: 13 July 98

High-Cut 1000

Low-Cut 4

Source

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

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Azimuth

Vertical

Source Polarization

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X

Y

Azimuth

Vertical

Source Polarization

Shot

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Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

Y

Azimuth

Vertical

Source Polarization

Shot

File

Depth

Elev.

Offset

Azimuth

Elev.

X

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
Casing Elevation: 657 m above G.L.

Reference Phone: Offset: 0 m

Azimuth x-axis: 90 m below G.L.

Azimuth y-axis: 0 m

Well Coord: X = 10008.22 Y = 9999.97 Z = 850.25

Channel Configuration:
Borehole Phone
V=Channel 1
R=Channel 2
T=Channel 3
Reference Phone
V=Channel 4
R=Channel 5
T=Channel 6
Ref. Polarization: Az 0 Vert. 0
V 0
R 90
T 90

Date: 13 July 98 Location: C2 URSP Number Samples 2500
High-Cut 1000 Low-Cut 4 Sample Int. .0002

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	11	18.75					0	-0.50	270	135
	12	18.75							90	135
	13	18.50							270	
	14	18.50							90	
	15	18.25							270	
	16	18.25							90	
	17	18.0							270	
	18	18.0							90	
	19	17.75							270	
	20	17.75						V	90	N

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: 657 m above G.L.

Azimuth x-axis: 90°

Azimuth y-axis: 0°

Well Coord: X = 10008.22

Y = 9999.97

Z = 850.25

Channel Configuration:

Borehole Phone

V=Channel 1

R=Channel 2

T=Channel 3

Reference Phone

V=Channel 4

R=Channel 5

T=Channel 6

Ref. Polarization:

V

R

T

Az

0

0

270

Vert.

0

90

90

Date: 13 July 98

Location: C2 URSP

High-Cut 1000

Low-Cut 4

Sample Int. .0002

Number Samples 2500

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>21</u>	<u>17.50</u>					<u>0</u>	<u>-0.50</u>	<u>270°</u>	<u>135°</u>
	<u>22</u>	<u>17.50</u>							<u>90°</u>	<u>135°</u>
	<u>23</u>	<u>17.25</u>							<u>270</u>	
	<u>24</u>	<u>17.25</u>							<u>90</u>	
	<u>25</u>	<u>17.0</u>							<u>270</u>	
	<u>26</u>	<u>17.0</u>							<u>90</u>	
	<u>27</u>	<u>16.75</u>							<u>270</u>	
	<u>29</u>	<u>16.75</u>							<u>90</u>	
	<u>29</u>	<u>16.50</u>							<u>270</u>	
	<u>30</u>	<u>16.50</u>							<u>90</u>	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
Casing Elevation: 657 m above G.L.

Reference Phone: _____

Offset: _____ m

Azimuth x-axis: 90

Azimuth _____

Elev. 0 m below G.L.

Azimuth y-axis: 0

X = 0 m

Well Coord: X = 10008.22 Y = 9999.97 Z = 850.25

Y = -1.40 m

Channel Configuration:

Reference Phone

V=Channel 1

V=Channel 4

R=Channel 2

R=Channel 5

T=Channel 3

T=Channel 6

Ref. Polarization: Az 0 Vert. 0

V

R

T

Date: 13 July 98

Location: C2 URSP

High-Cut 1000 Low-Cut 4 Sample Int. .0002 Number Samples 2500

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>31</u>	<u>16.25</u>					<u>0</u>	<u>-1.50</u>	<u>270</u>	<u>135</u>
	<u>32</u>	<u>16.25</u>							<u>90</u>	<u>135</u>
	<u>33</u>	<u>16.0</u>							<u>270</u>	
	<u>34</u>	<u>16.0</u>							<u>90</u>	
	<u>35</u>	<u>15.75</u>							<u>270</u>	
	<u>36</u>	<u>15.75</u>							<u>90</u>	
	<u>37</u>	<u>15.50</u>							<u>270</u>	
	<u>38</u>	<u>15.50</u>							<u>90</u>	
	<u>39</u>	<u>15.25</u>							<u>270</u>	
	<u>40</u>	<u>15.25</u>							<u>90</u>	<u>α</u>

18.30

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: 657 m above G.L.

Azimuth x-axis: 90°

Azimuth y-axis: 0°

Well Coord: X= 10008.22

Y= 9999.97

Z= 850.25

Channel Borehole Phone

V=Channel 1

R=Channel 2

T=Channel 3

Reference Phone

V=Channel 4

R=Channel 5

T=Channel 6

Ref. Polarization:

V

R

T

Az

0

0

270

Vert.

0

90

90

Date: 13 July 98

Location: C2 URSP

Low-Cut 4

Sample Int. .0002

Number Samples 2500

Shot		Borehole Phone				Source				Source Polarization			
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical			
	<u>41</u>	<u>15.0</u>					<u>0</u>	<u>-0.50</u>	<u>270°</u>	<u>135°</u>			
	<u>42</u>	<u>15.0</u>							<u>90°</u>	<u>135°</u>			
	<u>43</u>	<u>14.75</u>							<u>270</u>				
	<u>44</u>	<u>14.75</u>							<u>90</u>				
	<u>45</u>	<u>14.50</u>							<u>270</u>				
	<u>46</u>	<u>14.50</u>							<u>90</u>				
	<u>47</u>	<u>14.25</u>							<u>270</u>				
	<u>48</u>	<u>14.25</u>							<u>90</u>				
	<u>49</u>	<u>14.0</u>							<u>270</u>				
	<u>50</u>	<u>14.0</u>						<u>0</u>	<u>90</u>				

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: .657 m above G.L.

Azimuth x-axis: 90°

Azimuth y-axis: 0°

Well Coord: X= 10008.22

Y= 9999.97

Z= 850.25

Reference Phone

V=Channel 1

R=Channel 2

T=Channel 3

Location: C2

Low-Cut 4

Sample Int. .0002

Number Samples 2500

Reference Phone: Offset: m

Azimuth Elev. 0 m below G.L.

X= 0 m

Y= -1.40 m

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Date: 13 July 98

High-Cut 1000

Low-Cut 4

Sample Int. .0002

Number Samples 2500

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	51	13.75					0	- .50	270°	135°
	52	13.75							90°	135°
	53	13.50							270	
	54	13.50							90	
	55	13.25							270	
	56	13.25							90	
	57	13.0							270	
	58	13.0							90	
	59	12.75							270	
	60	12.75							90	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 1657 m above G.L.
 Azimuth x-axis: 90
 Azimuth y-axis: 0
 Well Coord: X = 10008.22 Y = 9999.97 Z = 850.25
 Channel Configuration: Borehole Phone Reference Phone
 V=Channel 1 V=Channel 4
 R=Channel 2 R=Channel 5
 T=Channel 3 T=Channel 6

Reference Phone: Offset: _____ m
 Azimuth _____ m below G.L.
 Elev. _____ m
 X = 0
 Y = -1.40
 Ref. Polarization: Az _____ Vert. _____
 V _____ O _____
 R _____ O _____
 T _____ 270 _____ 90 _____

Date: 13 July 98 Location: C2 URSP Number Samples 2500
 High-Cut 1000 Low-Cut 4 Sample Int. .0002

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>61</u>	<u>12.50</u>					<u>0</u>	<u>-.50</u>	<u>270</u>	<u>135</u>
	<u>62</u>	<u>12.50</u>						<u>1</u>	<u>90</u>	<u>135</u>
	<u>63</u>	<u>12.25</u>						<u>1</u>	<u>270</u>	<u>1</u>
	<u>64</u>	<u>12.25</u>						<u>1</u>	<u>90</u>	<u>1</u>
	<u>65</u>	<u>12.0</u>						<u>1</u>	<u>270</u>	<u>1</u>
	<u>66</u>	<u>12.0</u>						<u>1</u>	<u>90</u>	<u>1</u>
	<u>67</u>	<u>11.75</u>						<u>1</u>	<u>270</u>	<u>1</u>
	<u>68</u>	<u>11.75</u>						<u>1</u>	<u>90</u>	<u>1</u>
	<u>69</u>	<u>11.50</u>						<u>1</u>	<u>270</u>	<u>1</u>
	<u>70</u>	<u>11.50</u>						<u>1</u>	<u>90</u>	<u>1</u>

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
Casing Elevation: 657 m above G.L.

Reference Phone: Offset: m

Azimuth x-axis: 90
Azimuth y-axis: 0
Well Coord: X = 10008.22 Y = 9999.97 Z = 850.25

Azimuth 0 m below G.L.

Elev. 0 m

X = 0 m

Y = -1.40 m

Ref. Polarization: Az 0 Vert. 0

V 0 R 0

T 270

Reference Phone

V=Channel 4

R=Channel 5

T=Channel 6

Borehole Phone

V=Channel 1

R=Channel 2

T=Channel 3

Location: C2 URSP

Date: 13 July 98

High-Cut 1000 Low-Cut 4 Sample Int. .0002 Number Samples 2500

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	71	11.25					0	-1.50	270	135
	72	11.25							90	135
	73	11.0							270	
	74	11.0							90	
	75	10.75							270	
	76	10.75							90	
	77	10.50							270	
	78	10.50							90	
	79	10.25							270	
	80	10.25							90	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
Casing Elevation: 1657 m above G.L.

Reference Phone: _____ m

Azimuth x-axis: 90
Azimuth y-axis: 0
Well Coord: X = 10008.22 Y = 9999.97 Z = 850.25

Azimuth: _____ m

Elev.: _____ m below G.L.

X = 0 m

Y = -1.40 m

Ref. Polarization: Az 0 Vert. 0

V 0

R 0

T 270

Reference Phone

V=Channel 4

R=Channel 5

T=Channel 6

Borehole Phone

V=Channel 1

R=Channel 2

T=Channel 3

Date: 13 July 98

Location: C2 URISP

High-Cut 1000 Low-Cut 4 Sample Int. .0002 Number Samples 2500

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	81	10.0					0	-50	270	135°
	82	10.0							90	135°
	83	9.75							270	
	84	9.75							90	
	85	9.50							270	
	86	9.50							90	
	87	9.25							270	
	88	9.25							90	
	89	9.0							270	
	90	9.0							90	

10.5.01

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 657 m above G.L.
 Azimuth x-axis: 90
 Azimuth y-axis: 0
 Well Coord: X = 10008.22 Y = 9999.97 Z = 850.25
 Channel Configuration:
 Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3
 Reference Phone
 V=Channel 4
 R=Channel 5
 T=Channel 6

Reference Phone: Offset: _____ m
 Azimuth: _____ m below G.L.
 Elev.: 0
 X = 0
 Y = -1.40
 Ref. Polarization: Az 0
 V 0
 R 90
 T 90

Date: 13 July 98

Location: C2 URSP
 High-Cut 1000 Low-Cut 4 Sample Int. .0002

Number Samples 2500

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>91</u>	<u>8.75</u>					<u>0</u>	<u>-0.50</u>	<u>270</u>	<u>135</u>
	<u>92</u>	<u>8.75</u>							<u>90</u>	<u>135</u>
	<u>93</u>	<u>8.50</u>							<u>270</u>	
	<u>94</u>	<u>8.50</u>							<u>90</u>	
	<u>95</u>	<u>8.25</u>							<u>270</u>	
	<u>96</u>	<u>8.25</u>							<u>90</u>	
	<u>97</u>	<u>8.0</u>							<u>270</u>	
	<u>98</u>	<u>8.0</u>							<u>90</u>	
	<u>99</u>	<u>7.75</u>							<u>270</u>	
	<u>100</u>	<u>7.75</u>							<u>90</u>	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: 1657 m above G.L.

Azimuth x-axis: 90°

Azimuth y-axis: 0°

Well Coord: X = 10008.22 Y = 9999.97 Z = 850.25

Channel Configuration: Borehole Phone

V=Channel 1

R=Channel 2

T=Channel 3

Reference Phone

V=Channel 4

R=Channel 5

T=Channel 6

Ref. Polarization: Az

V 0

R 0

T 270

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

Elev. 0 m

X = 0

Y = -1.40

Number Samples 2500

Date: 13 July 98

High-Cut 1000

Location: C2 CRISP

Sample Int. .0002

Low-Cut 4

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>101</u>	<u>7.50</u>					<u>0</u>	<u>-1.50</u>	<u>270°</u>	<u>135°</u>
	<u>102</u>	<u>7.50</u>						<u>1</u>	<u>90°</u>	<u>135°</u>
	<u>103</u>	<u>7.25</u>						<u>1</u>	<u>270</u>	
	<u>104</u>	<u>7.25</u>						<u>1</u>	<u>90</u>	
	<u>105</u>	<u>7.0</u>						<u>1</u>	<u>270</u>	
	<u>106</u>	<u>7.0</u>						<u>1</u>	<u>90</u>	
	<u>107</u>	<u>6.75</u>						<u>1</u>	<u>270</u>	
	<u>108</u>	<u>6.75</u>						<u>1</u>	<u>90</u>	
	<u>109</u>	<u>6.50</u>						<u>1</u>	<u>270</u>	
	<u>110</u>	<u>6.50</u>						<u>1</u>	<u>90</u>	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
Casing Elevation: 1657 m above G.L.

Reference Phone: _____ m

Azimuth x-axis: 90°

Azimuth 0 m below G.L.

Azimuth y-axis: 0°

X = 0 m

Well Coord: X = 10008.22 Y = 9999.97 Z = 850.25

Y = -140 m

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

Reference Phone
V=Channel 4
R=Channel 5
T=Channel 6

Ref. Polarization: Az 0 Vert. 0
V 0
R 90
T 90

Date: 13 July 98

Location: C2 URISP

High-Cut 1000 Low-Cut 4 Sample Int. .0002 Number Samples 2500

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>111</u>	<u>6.25</u>					<u>0</u>	<u>- .50</u>	<u>270°</u>	<u>135°</u>
	<u>112</u>	<u>6.25</u>							<u>90°</u>	<u>135°</u>
	<u>113</u>	<u>6.0</u>							<u>270</u>	
	<u>114</u>	<u>6.0</u>							<u>90</u>	
	<u>115</u>	<u>5.75</u>							<u>270</u>	
	<u>116</u>	<u>5.75</u>							<u>90</u>	
	<u>117</u>	<u>5.50</u>							<u>270</u>	
	<u>118</u>	<u>5.50</u>							<u>90</u>	
	<u>119</u>	<u>5.25</u>							<u>270</u>	
	<u>120</u>	<u>5.25</u>							<u>90</u>	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
Casing Elevation: -6.57 m above G.L.

Reference Phone: _____ m

Azimuth x-axis: 90
Azimuth y-axis: 0

Azimuth 0 m below G.L.
Elev. 0 m

Well Coord: X = 10008.22 Y = 9999.97 Z = 850.25

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

Reference Phone
V=Channel 4
R=Channel 5
T=Channel 6

Ref. Polarization: Az 0 Vert. 0
V 0
R 90
T 90

Date: 13 July 98

Location: C2 URSP
High-Cut 1000 Low-Cut 4 Sample Int. .0002

Number Samples 2500

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>121</u>	<u>5.0</u>					<u>0</u>	<u>-1.50</u>	<u>270</u>	<u>135</u>
	<u>122</u>	<u>5.0</u>							<u>90</u>	<u>135</u>
	<u>123</u>	<u>4.75</u>							<u>270</u>	
	<u>124</u>	<u>4.75</u>							<u>90</u>	
	<u>125</u>	<u>4.50</u>							<u>270</u>	
	<u>126</u>	<u>4.50</u>							<u>90</u>	
	<u>127</u>	<u>4.25</u>							<u>270</u>	
	<u>128</u>	<u>4.25</u>							<u>90</u>	
	<u>129</u>	<u>4.0</u>							<u>270</u>	
	<u>130</u>	<u>4.0</u>							<u>90</u>	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: 657 m above G.L.

Azimuth x-axis: 90

Azimuth y-axis: 0

Well Coord: X = 10008.22 Y = 9999.97 Z = 850.25

Channel Configuration: Borehole Phone

V=Channel 1

R=Channel 2

T=Channel 3

Reference Phone

V=Channel 4

R=Channel 5

T=Channel 6

Ref. Polarization: Az

V

R

T

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X = 0 m

Y = -1.40 m

Z = 850.25 m

Location: C2 URSP

Sample Int. 0.002

Low-Cut 4

Number Samples 2500

Date: 13 July 98

High-Cut 1000

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>131</u>	<u>3.75</u>					<u>0</u>	<u>-1.50</u>	<u>270</u>	<u>135</u>
	<u>132</u>	<u>3.75</u>							<u>90</u>	<u>135</u>
	<u>133</u>	<u>3.50</u>							<u>270</u>	
	<u>134</u>	<u>3.50</u>							<u>90</u>	
	<u>135</u>	<u>3.25</u>							<u>270</u>	
	<u>136</u>	<u>3.25</u>							<u>90</u>	
	<u>137</u>	<u>3.0</u>							<u>270</u>	
	<u>138</u>	<u>3.0</u>							<u>90</u>	
	<u>139</u>	<u>2.75</u>							<u>270</u>	
	<u>140</u>	<u>2.75</u>							<u>90</u>	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
Casing Elevation: 659 m above G.L.

Reference Phone: 0 m

Azimuth x-axis: 90

Azimuth 0 m below G.L.

Azimuth y-axis: 0

X = 0 m

Y = -190 m

Z = 850.25

Channel Configuration:

Reference Phone

V=Channel 1

V=Channel 4

R=Channel 2

R=Channel 5

T=Channel 3

T=Channel 6

Ref. Polarization: Az 0

V 0

R 90

T 90

Date: 13 July 98

Location: C2 URSP

High-Cut 1000 Low-Cut 4 Sample Int. .0002

Number Samples 2500

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>141</u>	<u>2.50</u>					<u>0</u>	<u>-50</u>	<u>270</u>	<u>135</u>
	<u>142</u>	<u>2.50</u>							<u>90</u>	<u>135</u>
	<u>143</u>	<u>2.25</u>							<u>270</u>	
	<u>144</u>	<u>2.25</u>							<u>90</u>	
	<u>145</u>	<u>2.0</u>							<u>270</u>	
	<u>146</u>	<u>2.0</u>							<u>90</u>	
	<u>147</u>	<u>1.75</u>							<u>270</u>	
	<u>148</u>	<u>1.75</u>							<u>90</u>	
	<u>149</u>	<u>1.50</u>							<u>270</u>	
	<u>150</u>	<u>1.50</u>							<u>90</u>	

