

OR161WB1

VSP Preliminary Data Sheet

Date: 6 JULY 98 Type of Phones 070 14112

1. Well Name C6

2. Location of Well

X= 9995.909 Y= 10007.524 Z= 850.155

Casing Elevation: 850.155

3. Depth to top of water table (measured from CE) 7.25 ft (Envirotech waterline)

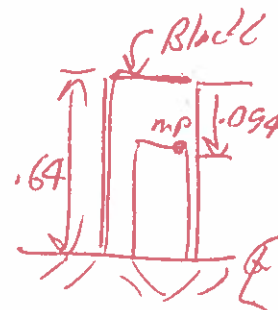
4. Casing Elevation, distance above ground level= .546 meters (mp)

5. Reference phone offset from borehole= 1.65 m

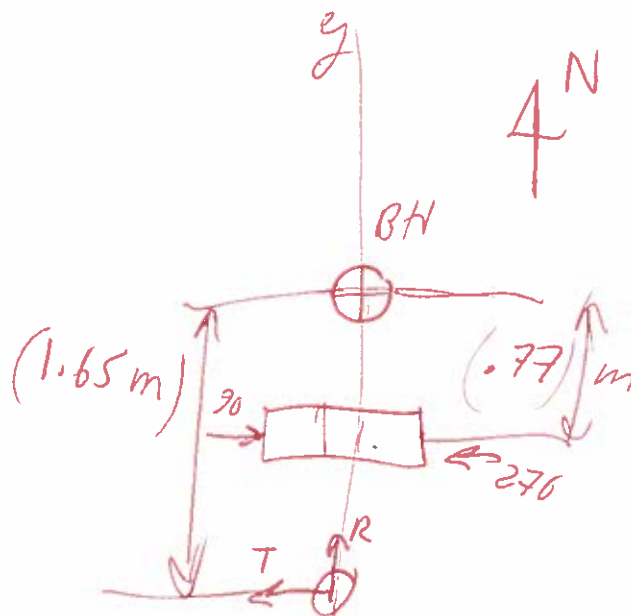
6. Reference phone depth below ground level= 0

7. Source Offset from borehole= .77 m

8. Sketch of setup:



$$\begin{array}{r} .640 \\ -.094 \\ \hline .546 \end{array}$$



$$\begin{array}{r} T/D \\ 19.58 \\ + 1.02m \\ \hline = 20.6m \end{array}$$

9. Blue Box switch settings:

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

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: 6 7.546 m above G.L.

Azimuth x-axis: 90°

Well Coord: X = 99.95.709

Channel Configuration: V=Channel 1

R=Channel 2

T=Channel 3

Reference Phone: Offset: m

Azimuth

Elev. m below G.L.

X = 0 m

Y = -1.65 m

Reference Phone 4 Ref. Polarization: Az 0

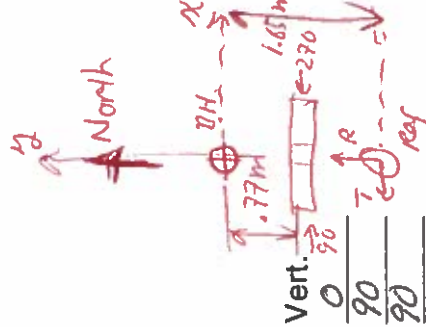
V=Channel 4

R=Channel 5

T=Channel 6

Date: 6 JULY 98 Location: Wase (C6)

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 (water)	Azimuth	Vertical
WLC60001	1	20.0					0	-1.77	270	135
	2	20.0							90	135
	3	19.75							270	
	4	19.75							90	
	5	19.50							270	
	6	19.50							90	
	7	19.25							270	
	8	19.25							90	
	9	19.0							270	
	10	19.0							90	

Water table 7.25 ft sub CE
 $\Sigma = +847.945$ m elevation

Page 1 of 16

$$WD = (19.58 + 1.12) = 20.7m$$

Time 10:57

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 ± .546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone
 V=Channel 1
 R=Channel 2
 T=Channel 3
 Reference Phone 4 Ref. Polarization: Az 0
 V 0
 R 0
 T 270
 Vert. 0
 Reference Phone 4 Ref. Polarization: Az 0
 V 0
 R 0
 T 270
 Vert. 0
 Offset: 0 m
 Azimuth 0
 Elev. 0 m below G.L.
 X = 0
 Y = -1.65 m

Date: 6 JULY 98 Location: Uesp (C6) 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>11</u>	<u>18.75</u>					<u>0</u>	<u>-1.77</u>	<u>270</u>	<u>135</u>
	<u>12</u>	<u>18.75</u>							<u>90</u>	
	<u>13</u>	<u>18.50</u>							<u>270</u>	
	<u>14</u>	<u>18.50</u>							<u>90</u>	
	<u>15</u>	<u>18.25</u>							<u>270</u>	
	<u>16</u>	<u>18.25</u>							<u>90</u>	
	<u>17</u>	<u>18.0</u>							<u>270</u>	
	<u>18</u>	<u>18.0</u>							<u>90</u>	
	<u>19</u>	<u>17.75</u>							<u>270</u>	
	<u>20</u>	<u>17.75</u>							<u>90</u>	

11:00

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 + .546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone V=Channel 1 R=Channel 2 T=Channel 3
 Reference Phone LCF = M_P Ref. Polarization: V 0 R 0 T 270
 Vert. 0

Date: 6 JULY 98 Location: Uesp (C6) 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>21</u>	<u>17.5</u>					<u>0</u>	<u>-77</u>	<u>270</u>	<u>135</u>
	<u>22</u>	<u>17.5</u>							<u>90</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>28</u>	<u>16.75</u>							<u>90</u>	
	<u>29</u>	<u>16.50</u>							<u>270</u>	
	<u>30</u>	<u>16.5</u>							<u>90</u>	

11:05

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 + 546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone
 V=Channel 1 V=Channel 4 Ref. Polarization: Az 0 Vert. 0
 R=Channel 2 R=Channel 5 R 0 90
 T=Channel 3 T=Channel 6 T 270 90

Date: 6 JULY 98 Location: Uelisp (C6) 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>31</u>	<u>16.25</u>					<u>0</u>	<u>-77</u>	<u>270</u>	<u>135</u>
	<u>32</u>	<u>16.25</u>					<u>1</u>	<u>1</u>	<u>90</u>	<u>1</u>
	<u>33</u>	<u>16.0</u>					<u>1</u>	<u>1</u>	<u>270</u>	<u>1</u>
	<u>34</u>	<u>16.0</u>					<u>1</u>	<u>1</u>	<u>90</u>	<u>1</u>
	<u>35</u>	<u>15.75</u>					<u>1</u>	<u>1</u>	<u>270</u>	<u>1</u>
	<u>36</u>	<u>15.75</u>					<u>1</u>	<u>1</u>	<u>90</u>	<u>1</u>
	<u>37</u>	<u>15.50</u>					<u>1</u>	<u>1</u>	<u>270</u>	<u>1</u>
	<u>38</u>	<u>15.50</u>					<u>1</u>	<u>1</u>	<u>90</u>	<u>1</u>
	<u>39</u>	<u>15.25</u>					<u>1</u>	<u>1</u>	<u>270</u>	<u>1</u>
	<u>40</u>	<u>15.25</u>					<u>1</u>	<u>1</u>	<u>90</u>	<u>1</u>

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 + .546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone V=Channel 2 R=Channel 3 T=Channel 3
 Reference Phone V=Channel 4 R=Channel 5 T=Channel 6
 Ref. Polarization: Az V 0 R 0 T 270
 Offset: 0 m
 Azimuth: 0 m below G.L.
 Elev.: 0 m
 X = -1.65 m
 Y = -1.65 m
 Vert. 0

Date: 6 JULY 98 Location: Uelisp (C6) 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>41</u>	<u>15.0</u>					<u>0</u>	<u>-37</u>	<u>270</u>	<u>135</u>
	<u>42</u>	<u>15.0</u>							<u>90</u>	<u>1</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>14.5</u>							<u>270</u>	
	<u>46</u>	<u>14.5</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>1</u>
	<u>50</u>	<u>14.0</u>					<u>A</u>		<u>90</u>	

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 + 596 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone
 V=Channel 2 V=Channel 4 Ref. Polarization: Az
 R=Channel 3 R=Channel 5 V 0
 T=Channel 3 T=Channel 6 R 0
 T 270
 Vert. 0

Date: 6 JULY 98 Location: Uelisp (C6) 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>51</u>	<u>13.75</u>					<u>0</u>	<u>-77</u>	<u>270</u>	<u>135</u>
	<u>52</u>	<u>13.75</u>							<u>90</u>	
	<u>53</u>	<u>13.50</u>							<u>270</u>	
	<u>54</u>	<u>13.50</u>							<u>90</u>	
	<u>55</u>	<u>13.25</u>							<u>270</u>	
	<u>56</u>	<u>13.25</u>							<u>90</u>	
	<u>57</u>	<u>13.0</u>							<u>270</u>	
	<u>58</u>	<u>13.0</u>							<u>90</u>	
	<u>59</u>	<u>12.75</u>							<u>270</u>	
	<u>60</u>	<u>12.75</u>							<u>90</u>	

11:24

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 + .546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 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 V 0 R 0 T 270
 Vert. 0
 X = 0 m below G.L.
 Y = -1.65 m
 Azimuth 0
 Elev. 0 m below G.L.

Date: 6 JULY 98 Location: Uesp (C6) 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>-77</u>	<u>270</u>	<u>135</u>
	<u>62</u>	<u>12.50</u>							<u>90</u>	
	<u>63</u>	<u>12.25</u>							<u>270</u>	
	<u>64</u>	<u>12.25</u>							<u>90</u>	
	<u>65</u>	<u>12.6</u>							<u>270</u>	
	<u>66</u>	<u>12.0</u>							<u>90</u>	
	<u>67</u>	<u>11.75</u>							<u>270</u>	
	<u>68</u>	<u>11.75</u>							<u>90</u>	
	<u>69</u>	<u>11.50</u>							<u>270</u>	
	<u>70</u>	<u>11.50</u>							<u>90</u>	

(1134)

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 ± .546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone
 V=Channel 2 V=Channel 4 Ref. Polarization: Az 0 Vert. 0
 R=Channel 3 R=Channel 5 R 0 90
 T=Channel 3 T=Channel 6 T 270 90

Date: 6 JULY 98 Location: Uesp (C6) 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
	71	11.25					0	-77	270	135
	72	11.25							90	
	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	

11:36

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 + 546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone V=Channel 2 R=Channel 3 T=Channel 3
 Reference Phone t.c.f. = M_P Ref. Polarization: V 0 R 0 T 270
 Vert. 0
 Reference Phone: Offset: 0 m
 Azimuth 0
 Elev. 0 m below G.L.
 X = 0 m
 Y = -1.65 m

Date: 6 JULY 98 Location: Uelisp (C6)
 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>81</u>	<u>10.0</u>					<u>0</u>	<u>-77</u>	<u>270</u>	<u>135</u>
	<u>82</u>	<u>10.0</u>							<u>90</u>	<u>1</u>
	<u>83</u>	<u>9.75</u>							<u>270</u>	
	<u>84</u>	<u>9.75</u>							<u>90</u>	
	<u>85</u>	<u>9.50</u>							<u>270</u>	
	<u>86</u>	<u>9.50</u>							<u>90</u>	
	<u>87</u>	<u>9.25</u>							<u>270</u>	
	<u>88</u>	<u>9.25</u>							<u>90</u>	
	<u>89</u>	<u>9.0</u>							<u>270</u>	
	<u>90</u>	<u>9.0</u>					<u>0</u>		<u>90</u>	<u>1</u>

hkh:ll

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 + .546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Borehole Phone
 Configuration: V=Channel 1 V=Channel 4 Ref. Polarization: Az 0 Vert. 0
 R=Channel 2 R=Channel 5 R 0 90
 T=Channel 3 T=Channel 6 T 270 90

Date: 6 JULY 98 Location: Uersp (C6) 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
	91	8.75					0	-77	270	135
	92	8.15							90	
	93	8.50							270	
	94	8.50							90	
	95	8.25							270	
	96	8.25							90	
	97	8.0							270	
	98	8.0							90	
	99	7.75							270	
	100	7.75							90	

11:50

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 + .546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone V=Channel 1 R=Channel 2 T=Channel 3
 Reference Phone LCF = M_P Ref. Polarization: Az 0 V 0 R 0 T 270
 Vert. 0
 Offset: 0 m
 Azimuth 0
 Elev. 0 m below G.L.
 X = 0 m
 Y = -1.65 m

Date: 6 JULY 98 Location: Uelap (CE)
 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>101</u>	<u>7.50</u>					<u>0</u>	<u>-1.77</u>	<u>270</u>	<u>135</u>
	<u>102</u>	<u>7.50</u>							<u>90</u>	<u>135</u>
	<u>103</u>	<u>7.25</u>							<u>270</u>	
	<u>104</u>	<u>7.25</u>							<u>90</u>	
	<u>105</u>	<u>7.0</u>							<u>270</u>	
	<u>106</u>	<u>7.0</u>							<u>90</u>	
	<u>107</u>	<u>6.75</u>							<u>270</u>	
	<u>108</u>	<u>6.75</u>							<u>90</u>	
	<u>109</u>	<u>6.50</u>							<u>270</u>	
	<u>110</u>	<u>6.50</u>							<u>90</u>	<u>✓</u>

5:11

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 ± .546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone V=Channel 1 R=Channel 2 T=Channel 3
 Reference Phone t.c.f. = M₀ Ref. Polarization: Az 0 V 0 R 0 T 270
 Elev. 0 m below G.L.
 X = -1.65 m
 Y = -1.65 m
 Vert. 0

Date: 6 JULY 98 Location: U25p (C6) 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
	111	6.25					0	-77	270	135
	112	6.25							90	
	113	6.0							270	
	114	6.0							90	
	115	5.75							270	
	116	5.75							90	
	117	5.50							270	
	118	5.50							90	
	119	5.25							270	
	120	5.25							90	

12:01

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 ± .56 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone 1 Reference Phone LCF = M_P Ref. Polarization: Az 0 Vert. 0
 V=Channel 2 V=Channel 4 V 0
 R=Channel 3 R=Channel 5 R 0
 T=Channel 3 T=Channel 6 T 270

Date: 6 JULY 98 Location: Uesp (C6) 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
	121	5.0					0	-77	270	135
	122	5.0							90	
	123	4.75							270	
	124	4.75							90	
	125	4.50							270	
	126	4.50							90	
	127	4.25							270	
	128	4.25							90	
	129	4.0							270	
	130	4.0							90	

12.07

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6.7 546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Configuration: Borehole Phone
 V=Channel 2 R=Channel 5 T=Channel 6
 Reference Phone 4 Ref. Polarization: Az 0 Vert. 0
 V 0 R 0 T 270
 X = 0 m Elev. -1.65 m below G.L.
 Y = -1.65 m

Date: 6 JULY 98 Location: WESP (C6) 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
	131	3.75					0	-77	270	135
	132	3.75					1		90	
	133	3.50							270	
	134	3.50							90	
	135	3.25							270	
	136	3.25							90	
	137	3.0							270	
	138	3.0							90	
	139	2.75							270	
	140	2.75					0		90	4

BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole
 Casing Elevation: 6 ± .546 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 850.155
 Channel Configuration: Borehole Phone V=Channel 1 R=Channel 2 T=Channel 3
 Reference Phone LCF = M_P Ref. Polarization: Az 0 Vert. 0
 V=Channel 4 R=Channel 5 T=Channel 6
 V 0 R 0 T 270

Date: 6 JULY 98 Location: Uesp (C6) 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
	141	2.50					0	-97	270	135
	142	2.50							90	
	143	2.25							270	
	144	2.25							90	
	145	2.0							270	
	146	2.0							90	
	147	1.75							270	
	148	1.75							90	
	149	1.50							270	
	150	1.50							90	

12.18

Coordinate System Origin at Borehole
 Casing Elevation: 6 + 1.96 m above G.L.
 Azimuth x-axis: 90°
 Azimuth y-axis: 0
 Well Coord: X = 9995.709 Y = 10007.524 Z = 350.155
 Channel Borehole Phone V=Channel 1 R=Channel 2 T=Channel 3
 Configuration: Borehole Phone V=Channel 4 R=Channel 5 T=Channel 6
 Reference Phone ^{to CF} = M_P
 Offset: _____ m
 Azimuth _____
 Elev. _____ m below G.L.
 X = 0 m
 Y = -1.65 m
 Vert. 0
90
90
90

Date: 6 JULY 98
High-Cut 1000
Location: UWSP (C6)
Low-Cut 4 Sample Int. .0002
Number Samples 2500

[illegible]

VSP Check List

Project: URISP ~~EE~~ C6 well

Date: 6 July 98

Odometer Start: 14787.7 Finish: 14805.7
Time Out: 9:30 Time In: 13:30

Item	Out	In	Comment
BHG-2 Borehole Geophone	✓		
BHGC-1 Control Box (Blue)	✓		
Cable: Spool to BHGC-1	✓		
Cable: BHGC-1 to Bison	✓		
Ban/Alligator Power Cables BHGC-1	✓		
OYO 3-c Reference Phone (Blue)	✓		
Dummy tool	✓		
Snatch Block and Come-a-long			
Bison Seismograph	✓		
90° Hammer Source	NO		
Vertical Hammer Source			
135° Hammer Source			
WD-40 and Black Tape	✓		
Observer's Sheets/Note Book	✓		
Rope	✓		
Claw Hammer and Large Nails			
Tape measure (50m)	✓		
Gloves	✓		
Compass and Maps	✓		
24Volt Clamp Battery			
Gas Card & Keys	✓		
Water Table Logging Probe	✓		

Yellow Tool Box
Red Tool Box

✓
✓