

# VSP Preliminary Data Sheet

Date: 10 JUL 98 Type of Phones OYO 14N2

1. Well Name B6 CRISP

2. Location of Well

X= 9997.65702 Y= 10001.5833 Z= 850.21448

Casing Elevation: 850.21448

Water type = 8.09 ft ??

3. Depth to top of water table (measured from CE) (1.45 + 1.12) = 2.570m

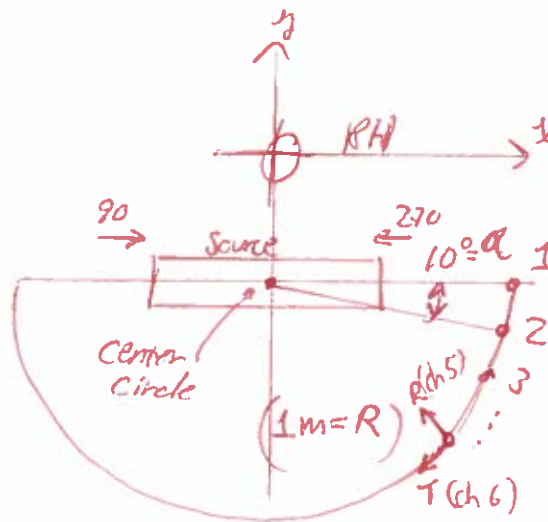
4. Casing Elevation, distance above ground level= .68

5. Reference phone offset from borehole= 1.72 (m) south

6. Reference phone depth below ground level= 0

7. Source Offset from borehole= 0.865 m south

8. Sketch of setup:



Borehole  
phone at  
2.0m sub CE  
fixed  
(ch 1, 3, 3)

Moving, Blue phone  
(ch 4, 5, 6)

9. Blue Box switch settings:

Channel	Component
<u>1</u>	Vertical
<u>3</u>	Longitudinal (radial)
<u>5</u>	Transverse

RADIATION Pattern  
Test

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# BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole  
 Casing Elevation: 68 m above G.L.  
 Azimuth x-axis: 90°  
 Azimuth y-axis: 0°  
 Well Coord: X = 9997.65702 Y = 10001.5833 Z = 850.21448  
 Channel Configuration: Borehole Phone  
 V=Channel 1 Reference Phone  
 R=Channel 2 V=Channel 4 ← *new*  
 T=Channel 3 R=Channel 5  
 T=Channel 6 T=Channel 7  
 Ref. Polarization: Az 0 Vert. 0  
 V 0 R 90  
 T 270

Date: 10 July 98 Location: B6 URSP  
 High-Cut 1000 Hz Low-Cut 4 Hz Sample Int. .0002 Number Samples 2500

Shot	File	Depth	Borehole Phone	Elev.	Offset	Source	X	Y	Source Polarization
1		<u>Sub CE</u>			<u>1(m)</u>	<u>90</u>			<u>270</u> <u>135</u>
2					<u>1</u>	<u>90</u>			<u>90</u> <u>135</u>
3					<u>1</u>	<u>100</u>			<u>270</u> <u>135</u>
4					<u>1</u>	<u>100</u>			<u>90</u> <u>135</u>
5					<u>1</u>	<u>100</u>			<u>270</u> <u>135</u>
6					<u>1</u>	<u>140</u>			<u>90</u> <u>135</u>
7					<u>1</u>	<u>120</u>			<u>270</u> <u>135</u>
8					<u>1</u>	<u>120</u>			<u>90</u> <u>135</u>
9					<u>1</u>	<u>130</u>			<u>270</u> <u>135</u>
10					<u>1</u>	<u>130</u>			<u>90</u> <u>135</u>

Borehole @ 2.0 sub CE → 0° Az  
 R = 1.0m  $\Phi_{Tool}$  RADIATION PATTERN

# BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: 68 m above G.L.

Azimuth x-axis: 90°

Azimuth y-axis: 0°

Well Coord: X = 9997.65702 Y = 10001.5833 Z = 850.21448

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.

X = 0 m

Y = 0 m

Ref. Polarization: Az

V 0

R 0

T 270

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X = 0 m

Y = 0 m

Ref. Polarization: Az

V 0

R 0

T 270

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X = 0 m

Y = 0 m

Date: 10 July 98

High-Cut 1000 Hz

Low-Cut 4 Hz

Location: B6

Sample Int. 0.0002

Number Samples 2500

Shot		Borehole Phone		Source				Source Polarization		
		2m depth fixed		(x=0, y=-.865) Fixed Blue Phone (4,56) move						
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	11			1(m)	140				270	135
	12				140				90	135
	13				150				270	
	14				150				90	
	15				160				270	
	16				160				90	
	17				170				270	
	18				170				90	
	19				180				270	
	20				180				90	

# BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: 168 m above G.L.

Azimuth x-axis: 90°

Azimuth y-axis: 0°

Well Coord: X = 9997.65702 Y = 10001.5833 Z = 850.21448

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

Vert.

0

90

90

Reference Phone: Offset:        m

Azimuth       

Elev. 0 m below G.L.

X =        m

Y =        m

Date: 10 July 98

Location: B6

Low-Cut 4 Hz

Sample Int. .0002

Number Samples 2500

Shot		Borehole Phone		Source		Source Polarization	
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	Vertical
	<u>21</u>			<u>1 m</u>	<u>190</u>	<u>270</u>	<u>135</u>
	<u>22</u>				<u>190</u>	<u>90</u>	<u>135</u>
	<u>23</u>				<u>200</u>	<u>270</u>	
	<u>24</u>				<u>200</u>	<u>90</u>	
	<u>25</u>				<u>210</u>	<u>270</u>	
	<u>26</u>				<u>210</u>	<u>90</u>	
	<u>27</u>				<u>220</u>	<u>270</u>	
	<u>28</u>				<u>220</u>	<u>90</u>	
	<u>29</u>				<u>230</u>	<u>270</u>	
	<u>30</u>				<u>230</u>	<u>90</u>	

# BSU GEOPHYSICS VSP OBSERVER'S LOG

Coordinate System Origin at Borehole

Casing Elevation: 90° m above G.L.

Azimuth x-axis: 0°

Azimuth y-axis: 0°

Well Coord: X= 9997.65702 Y= 10001.5833 Z= 850.21448

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

Vert.

0

90

90

Reference Phone: Offset:        m

Azimuth

Elev. 0 m below G.L.

X=        m

Y=        m

Date: 10 July 98

Location: B6

Low-Cut 4 Hz

Sample Int. .0002

Number Samples 2500

Shot		Borehole Phone		Source		Source Polarization	
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	Vertical
	<u>31</u>			<u>1 m</u>	<u>240</u>		<u>270 135</u>
	<u>32</u>				<u>240</u>		<u>90 135</u>
	<u>33</u>				<u>250</u>		<u>270</u>
	<u>34</u>				<u>250</u>		<u>90</u>
	<u>35</u>				<u>260</u>		<u>270</u>
	<u>36</u>				<u>260</u>		<u>90</u>
	<u>37</u>				<u>270</u>		<u>270</u>
	<u>38</u>				<u>270</u>		<u>90</u>