

VSP Preliminary Data Sheet

Date: 9 JULY 98 Type of Phones 070 ANT

1. Well Name C5 URISP

2. Location of Well

X= 9990.88127 Y= 10000.5322 Z= 850.00537

Casing Elevation: +850.00537 m

3. Depth to top of water table (measured from CE) (7.17 ft)

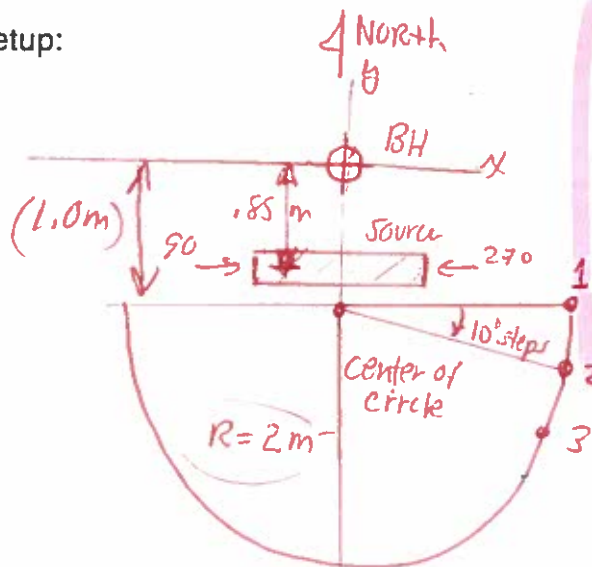
4. Casing Elevation, distance above ground level= 0.612 m

5. Reference phone offset from borehole= 1.65 m South

6. Reference phone depth below ground level= 0

7. Source Offset from borehole= 0.85 m South

8. Sketch of setup:



RADIATION PATTERN SURVEY
Blue Reference Phone moves on surface on semi-circle
Down Hole is "Reference"

center of circle, 1.0 m south of borehole.

Chord
 $2R \sin(\alpha/2)$
 $\text{chord} = 4 \sin 5^\circ$
 $= 0.348 \text{ m}$
step out

Bore hole phone stationary at
2.60 m sub CE
($\approx 2 \text{ m sub } \phi$)

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: 90° m above G.L.

Reference Phone: m

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

Azimuth m below G.L.
Elev. m

X = m
Y = m

Well Coord: X = 9990.88127 Y = 10000.5322 Z = 850.00537

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 Az Vert.
R 90
T 90

Date: 9 July 98
High-Cut 1000

Location: C5 (veisp)
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
ADCS0001	1								270	135
	2								90	135
	3								270	
	4								90	
	5								270	
	6								90	
	7								270	
	8								90	
	9								270	
	10								90	

Rotation Pattern

3.0 } .4
2.6
Total
Depth
Source
Radius
= 2.0 m

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= 9990.88127 Y= 10000.5322 Z= 850.00537

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 90

T 90

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X= 0 m

Y= 0 m

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X= 0 m

Y= 0 m

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

Reference Phone:

Azimuth 0

Elev. 0

X= 0

Y= 0

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X= 0 m

Y= 0 m

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X= 0 m

Y= 0 m

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X= 0 m

Y= 0 m

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Offset: 0 m

Reference Phone:

Azimuth 0

Elev. 0

X= 0

Y= 0

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X= 0 m

Y= 0 m

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X= 0 m

Y= 0 m

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Offset: 0 m

Azimuth 0 m below G.L.

X= 0 m

Y= 0 m

Ref. Polarization: Az 0

V 0

R 90

T 90

Vert. 0

Offset: 0 m

Date: 9 July 98

High-Cut 1000

Location: C5

Low-Cut 4

Sample Int. 0.0002

Number Samples 2500

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>11</u>								<u>270</u>	
	<u>12</u>								<u>90</u>	
	<u>13</u>								<u>270</u>	
	<u>14</u>								<u>90</u>	
	<u>15</u>								<u>270</u>	
	<u>16</u>								<u>90</u>	
	<u>17</u>								<u>270</u>	
	<u>18</u>								<u>90</u>	
	<u>19</u>								<u>270</u>	
	<u>20</u>								<u>90</u>	

RADIATION PATTERN

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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= 9990.88127 Y= 10000.5322 Z= 850.00537
 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 90
 T 90
 Offset: m
 Azimuth m below G.L.
 Elev. m
 X= m
 Y= m

Date: 9 July 98 Location: C5 (veisp) Number Samples 2500
 High-Cut 1000 Low-Cut 4 Sample Int. 0.0002

Shot		Borehole Phone			Source			Source Polarization		
Rec.	File	Depth	Elev.	Offset	Azimuth	Elev.	X	Y	Azimuth	Vertical
	<u>21</u>								<u>270</u>	<u>135</u>
	<u>22</u>								<u>90</u>	
	<u>23</u>								<u>270</u>	
	<u>24</u>								<u>90</u>	
	<u>25</u>								<u>270</u>	
	<u>26</u>								<u>90</u>	
	<u>27</u>								<u>270</u>	
	<u>28</u>								<u>90</u>	
	<u>29</u>								<u>270</u>	
	<u>30</u>								<u>90</u>	

RADIATION PATTERN

