| | | 1 | Alvin diva 4017 |
|------|-------|------|---|
| | | | Alvin dive 4617 |
| 1500 | | | Portside Transcript Karl Gronvold |
| 1509 | | | Landed at WP1 |
| 1512 | 4.604 | | In lobate flows. Large lobates almost sheets with small lobe in between. |
| 1513 | 1691 | | Sheets with small lobes in between. Fairly thick sediment in between |
| 4545 | 1601 | | the lobes in in cracked surfaces. |
| 1515 | 1691 | | Contact between a lobate and sheet flows. |
| 1520 | | | Samples 1 folded sheet flow and sample 2 lobate flow with ornamented |
| | | 1 | pillows. |
| 4504 | 4600 | | Sheet flow with less sediment. |
| 1534 | 1693 | 1 | Lobate flow/pillow and with some ornamented pillows |
| 1544 | 1692 | 14 | More pillows and patches of small pillows and others with ornamented pillows. |
| 1545 | 1689 | 10.7 | Pillows with patches of lobates. Fairly heavily sediment – similar to sample 2. |
| 1547 | 1685 | 10.9 | Large lobes mainly and ornamented pillow. |
| 1549 | 1684 | 18.7 | Ornamented pillows plus lobates of varying sizes. |
| 1550 | 1682 | 51.9 | WP2 - Same lobate pillow lava with ornamented pillows. |
| 1553 | 1682 | 70 | Large ornamented pillows in lobate flow. Possibly less sediment |
| 1555 | 1681 | 77.1 | Quite sedimented - lows all filled |
| 1556 | 1680 | 79 | More sedimented pillow/lobate Crossed contact? |
| 1559 | | | Collect sample 3 at WP3 |
| 1620 | 1681 | 68 | Direct from WP3 to WP5. Lobate/pillow ornamented. |
| 1621 | 1682 | 69 | Notable patches of ornamented pillows/large lobate pillows. Heavily |
| | | | sedimented. |
| 1627 | 1681 | 17.8 | Mainly lobated –heavily sedimented. |
| 1629 | 1680 | 78.7 | Contact. Pillow to sheet flow less sedimented. |
| | | | Narrow band of sheet and then deep channel with broken and folded |
| | | | sheet lava. |
| 1632 | 1683 | 156 | At WP5 collecting sample 4 at bottom of channel. Lightly sedimented. |
| 1642 | 1681 | 55.7 | Out of lava channel and into loby flow sedimented. |
| 1644 | | | Contact is sharp between lobate flows and sheet flow and then collapses |
| | | | into lava channel with folded and broken sheets. Or channel can in |
| | | | places be straight into lobate flows. |
| 1646 | 1685 | | Sample 5 at WP6. Just outside the lava channel in lobate flow. |
| 1656 | 1684 | 280 | In a channel over broken sheet flow – then into lobate and the sheeted |
| | | | again. |
| 1659 | | | Over a lobate flow and then on the edge of a channel. Steep wall on my |
| | | | left made up of thin sheet flows and lobes. On the edge no bottom seen. |
| 1706 | 1683 | 144 | On the steep edge of a lava channel. |
| 1709 | 1691 | | |
| 1711 | 1688 | 110 | On a steep edge of a deep channel – part of the lava channel system. |
| | 1685 | | In sheeted lava. |
| 1714 | 1687 | 343 | Mainly sheets with lobates in between. Change from sheets to lobate |
| | | | lava. |
| 1715 | 1684 | | In a N-S limb of the channel system. Broken up lobes and sheet. Turning |
| | | | east along the channel system. |
| 1716 | | | At the bottom of lava channel with lobate and broken lobate pillows |
| | | | with intermittent sheets. |
| 1717 | | | Wall of the lava channel. Nicely flow-banded thin sheets. Lava pillars also |

| | | | flow banded sheeted flow units similar to the walls. Bottom of the |
|------|-------|-------|---|
| | | | channel mainly made of broken sheets. |
| 1719 | 1683 | 82 | Still in lava channel – walls made of sheeted lava layers. Broken up |
| | 1.001 | | sheets at the bottom. |
| 1721 | 1681 | 81 | Left the lava edge and are in relatively sedimented lobate flow. |
| 1722 | 1681 | | At the edge of the channel system that appears to extend to WP7 |
| 1726 | 1682 | | WP7 Sample 6 in the channel system. |
| 1731 | 1681 | 106 | Over a lobate flow – coarse lobes. Heavily sedimented. Flow direction |
| | | | according to elongation seems to be at right angel to heading and be |
| | | | from left to right. |
| 1732 | 1682 | 106 | Heavily sedimented lobate flows. |
| 1734 | 1683 | 105.8 | Still heavily sedimented lobate flows. |
| 1736 | 1686 | 105.6 | The lobate flow is getting more pillowy – more ornamented pillows but similar sediment thickness. |
| 1738 | 1685 | 86.4 | Lobate flow sometimes broken up in places |
| 1739 | | | Seem to be collapse structures few square meters in diameter. |
| | | | Increasing in number as we approach next WP. |
| 1740 | 1684 | 87 | Crossing into fairly deep collapse structure few tens of meters. Heavily |
| | | | sedimented bottom with lobate/sheets. Depth over ten meters with |
| | | | large pillars. In the walls thin sheets and lobes. Top is covered by lobate |
| | | | flows. Deep channel. |
| 1744 | 1681 | 136 | Just passed an edge of a lava channel. On the edge are lobate flows. |
| 1746 | 1680 | 114 | Coarse lobate flow sometime with sheets. Sediment cover variable. |
| | | | Following a ridge to WP9. |
| 1747 | 1677 | | Getting close to top of ridge in lobate flows |
| 1748 | 1676 | | On the top of a ridge. Collapse? or flow structures in lobate flows. |
| 1751 | 1682 | | Sample 7. Between WP8 and WP9. |
| 1800 | 1683 | 143 | Lobate flow sometimes with sheet-like patches. Elongated lobes indicate |
| | | | flow direction from my left to right. Then into broken up lobes and |
| | | | sheets. Steep wall to my left. On to WP11 passed strange structure like |
| | | | an elongated sheep pen (possibly a break-out). Deep collapse (most |
| | | | likely lava channel) just dawn hill with broken up sheet flow at the |
| | | | bottom. |
| 1805 | 1682 | 120 | Over mainly ornamented pillows. Heavily sedimented. Into mixture of |
| | | | lobate and ornamented pillows. |
| 1806 | 1681 | | Over a contact between lobate and sheet flows and into heavily |
| | | | sedimented lobate flow. |
| 1810 | 1681 | 138 | Over lobate flow mainly big lobes - heavily sedimented. Looking for a |
| | | | contact but only see mild increase in ornamented pillows. |
| 1812 | | | Climbing up but no significant change in sediment cover or rock |
| | | | appearance. |
| 1814 | 1675 | | Sample 8 WP11 (-12 m) |
| 1819 | 1675 | 108 | Over heavily sedimented lobate flow. |
| 1821 | 1677 | 144 | Lobate flows. Passed a small collapse feature – into significant collapse. – |
| | | | possibly fault at the end of E-W fissure. Less sedimented. |
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| 1824 | 1674 | | Sample 9 WP12. Lobate flow – less sedimented. |
| 1829 | 1676 | 82.6 | Over lobate/ornamented pillows. Flow direction from left to right. |
| 1832 | 1680 | 107 | Over coarse pillow/lobate lava. |
| 1032 | 1000 | 107 | Over course pinow/robute lava. |

| 1833 | 1682 | 91 | Lobate flows/ornamented pillows. Parallel to a fault – 2 meters wide with |
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| 1033 | 1002 |)1 | little vertical movement. And then another fault further to the left. |
| 1835 | 1682 | | Lobate/pillows. |
| 1837 | 1687 | | Sample 10 WP13. More sedimented than sample 9. |
| 1844 | 1681 | 4.7 | Heavily sedimented lobate flow with patches of ornamented pillows. |
| 1847 | 1678 | 8.6 | Coarse lobate flow. |
| 1047 | 1078 | 8.0 | WP14 Lobate/sheets. Collapses with more gentle slope but look like lava |
| | | | channels. |
| 1850 | 1678 | 44 | Coarse lobate sometime turning into sheets. |
| 1852 | 1681 | 356 | Lobate flows – heavily sedimented. Clearly sailing up-slope and up-flow |
| 1854 | 1671 | 348 | Lobate lava flows. Crossed a big fault. |
| 1857 | 1667 | 352 | Coarse lobate/pillow flows. |
| 1900 | 1665 | 332 | Sample 11 WP 15. Sedimented. |
| 1904 | 1665 | 65.4 | Coarse lobate. |
| 1904 | 1670 | 05.4 | |
| | | 240 | Sample 12 WP16. Lobate less sedimented. |
| 1916 | 1676 | 248 | Dropping down along the big fault wall. Exposed are lobes and pillows. |
| | | | Some pillows are broken – others show glassy buds. Some pillows up to 2 |
| 1010 | 4.670 | 200 | meters in diameter. Come down to talus deposits. |
| 1919 | 1679 | 300 | Still close to the fault wall over talus |
| 1920 | 1680 | | Fault wall all pillow broken and whole and then talus at 1685m |
| 1922 | 1691 | 312 | Over talus and then into lobete/pillows. Sediment not overly thick. |
| | | | Spectacular fault country. Some faults only open cracks – no trow. Rocks |
| | | | at bottom are lobate/sheets. |
| 1923 | 1692 | 339 | Heavily sedimented lobate flow. |
| 1925 | 1649? | | Sample 13 - Heavily sediments lobate flow. |
| 1932 | 1692 | 336 | Bottom has changed to sheet flows |
| 1935 | 1689 | 336 | Back over lobate flows with sheets in between. |
| 1938 | 1687 | 336 | Sheets with lobates. Faults |
| 19?? | 1688 | 336 | Crossing a big fault at right angle – 10 m wide with some vertical |
| | | | displacement. |
| 1941 | 1684 | 337 | Crossing a big fault with vertical displacement. Fault wall sheets and |
| | | | pillows. On top of fault Lobate/sheets not folded nor broken. |
| 1942 | 1682 | | Sheets/lobate. Crossing a 1 meter fault no vertical movement. |
| 1943 | 1683 | 326 | Lobate/sheets |
| 1944 | 1682 | 326 | Close to the big faults and moving into talus mainly made of pillow |
| | | | fragments. |
| 1945 | 1671 | 325 | Climbing up the fault wall – broken pillows and lobes |
| 1947 | 1666 | 336 | Over a lobate flow with occasional ornamented pillows. |
| 1949 | 1666 | 349 | Elongated lobate lava. |
| 1952 | 1670 | | Sample 14 Lobate flow – sediment medium. |
| 1959 | | | Drop first weight. |
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