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SC V10-70      Copyright © Trimble Navigation Ltd, 1996-2003
              Serial no 4043      19-Oct-09 11:38
              Angle Degrees      Dist US Feet      Press inch Hg
              Temp Fahrenheit     Coord N-E-Elv      H.obs Right

JOB           Job ID ph3a-int cvr des
              Atmos crn No      C and R crn Yes      Refrac cnst 0.20
              Elev Yes          Sea level crn No

NOTE        TS Time Date 01/30/2009 Time 17:08:46

LOCELL      KI Local Rad 20925604.474      Flat.      298.2572229329

SITE        KI Prj Lat <null>      Nrth Offset 0.000
              Prj Lng <null>      East Offset 0.000
              Prj Hgt 1645.000      Scale      1.0000000000

SHFTGRD    KI File name <no text>

PROJ        KI No Projection
              Orig Lat <null>      Orig Nrth <null>
              Orig Lng <null>      Orig East <null>
              Orig Hgt <null>      Orig Elev <null>
              Orient 1 <null>      Orient 2 <null>
              Scale <null>

DATUM       KI None
              Srce Rad 20925604.474      Srce Flat 298.2572229329
              Rotn X <null>      Rotn Y <null>
              Rotn Z <null>      Trans X <null>
              Trans Y <null>      Trans Z <null>
              Scale <null>

PLANE       KI Orig Nrth <null>      Orig East <null>
              Trans N <null>      Trans E <null>
              Rotation <null>      Scale <null>

HGTADJ     KI Inclined Plane
              Orig Nrth <null>      Slope N <null>
              Orig East <null>      Slope E <null>
              Hgt Const <null>
              Geoid <no text>

COORD       NM System Name <no text>
              Zone Name <no text>
              Datum Name <no text>
              Coord System Option <None>

F FILE      FC File ID 00000      Used Name No

COGO        NM Azmth From North      Dir North-East

NOTE        NM Following data imported from 6-13-08-opus-obs.job

LOCELL      KI Local Rad 20925604.474      Flat.      298.2572229329

SITE        CB Prj Lat 36°03'01.84216"N      Nrth Offset 0.000
              Prj Lng 114°59'53.92840"W      East Offset 0.000
              Prj Hgt 1648.363      Scale      1.0000786812

SHFTGRD    CB File name <no text>

PROJ        CB Transverse Mercator
              Orig Lat 36°03'01.84216"N      Orig Nrth 18483.918
              Orig Lng 114°59'53.92840"W      Orig East 19186.597
              Orig Hgt 1643.256      Orig Elev 1738.580
              Orient 1 0°00'00"      Orient 2 0°00'00"
              Scale 1.0000000000

DATUM       CB Molodensky
              Srce Rad 20925604.474      Srce Flat 298.2572229329
              Rotn X 0°00'00"      Rotn Y 0°00'00"
              Rotn Z 0°00'00"      Trans X 0.000
              Trans Y 0.000      Trans Z 0.000
              Scale 0.0000000000

PLANE       CB Orig Nrth 18728.937      Orig East 15068.999
              Trans N -24.769      Trans E -1.419
              Rotation -0°20'39.273751"      Scale 1.0000000000

HGTADJ     CB Inclined Plane
              Orig Nrth 18483.893      Slope N -1.180
              Orig East 19186.576      Slope E 4.045
              Hgt Const 95.308
              Geoid <no text>

COORD       NM System Name <no text>
              Zone Name <no text>
              Datum Name <no text>
              Coord System Option Keyed in

COGO        NM Azmth From North      Dir North-East

NOTE        NM Following data imported from 6-13-08-opus-obs.job

NOTE        TS Time Date 01/30/2009 Time 15:55:57

COGO        NM Azmth From North      Dir North-East

SURVEY      KI Elev mask 10      PDOP mask 6.0

SURVEY      KI Elev mask 10      PDOP mask 6.0
    
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SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS SI Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1516
Init type On the fly seconds 518331.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
EQUIP NM Receiver SPS881 Serial no 4813149404
Antenna R8 Model 2/SPS88x Internal
Meas To Bottom of antenna mount
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.213
NOTE NM Receiver firmware version=3.710
GPSANT KI Antenna ht 6.562 Measurement Uncorrected
GPSVEC SO Point ID Auto0057 DX -6175.665 DY 1205.103
Class Stake out DZ -2024.120 Code 106-1-30-09CHK
Obs L1 Fixed H.pr 0.020 V.pr 0.025
GPSQC1 NM Min SVs 9 PDOP max 1.0
Relative DOPs Yes HDOP max 0.7
Total GPS pos 3 VDOP max 0.8
Monitor status Not monitored RMS 12.3
Horz SD Vert SD
Start wk 1516 sec 518429.0 End wk 1516 sec 518454.0
GPSQC2 NM Ttl satellites 9 Err Scale 0.0099999998
VCV xx 0.0000153086 VCV xy 0.0000115193
VCV xz -0.0000102203 VCV yy 0.0000515362
VCV yz -0.0000091307 VCV zz 0.0000281475
PT DGN SO Name 106 To the Point
GRID D SO Delta N -0.014 Delta E -0.046
Delta Elv -0.043
SURVEY EVENTKISurvey event Survey ended
NOTE TS Time Date 01/30/2009 Time 17:01:35
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1516
Init type On the fly seconds 522121.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>

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EQUIP NM Receiver SPS881 Serial no 4813149404
      Antenna R8 Model 2/SPS88x Internal
      Meas To Bottom of antenna mount
      Tape adj 0.000 Serial no <no text>
      H.Offset 0.000 V.Offset 0.213

NOTE NM Receiver firmware version=3.710

GPSANT KI Antenna ht 9.700 Measurement Uncorrected

GPSVEC SO Point ID Auto0058 DX -7029.868 DY 4145.283
      Class Stake out DZ 1039.198 Code 101-1-30-09CHK
      Obs L1 Fixed H.pr 0.024 V.pr 0.038

GPSQC1 NM Min SVs 12 PDOP max 1.4
      Relative DOPs Yes HDOP max 0.8
      Total GPS pos 4 VDOP max 1.2
      Monitor status Not monitored RMS 12.0
      Horz SD Vert SD
      Start wk 1516 sec 522174.0 End wk 1516 sec 522177.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998
      VCV xx 0.0000606589 VCV xy 0.0000544312
      VCV xz -0.0000263995 VCV yy 0.0000885777
      VCV yz -0.0000315253 VCV zz 0.0000400671

PT DGN SO Name 101 To the Point

GRID D SO Delta N -0.074 Delta E -0.006
      Delta Elv 0.000

SURVEY EVENTKISurvey event Survey ended

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI Antenna ht 0.000 Measurement True

GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
      Class Control Hgt 1645.648 Code 1_30_09_BASE
      Obs User Input H.pr <null> V.pr <null>

EQUIP SI Receiver SPS851 Serial no <no text>
      Antenna Zephyr - Model 2
      Meas To Antenna Phase Center
      Tape adj 0.000 Serial no <no text>
      H.Offset 0.000 V.Offset 0.000

NOTE NM Receiver firmware version=0.000

GPSANT KI Antenna ht 4.245 Measurement True

GPSREF KI Reference 44501

INIT KI Init event Gained Week 1516
      Init type On the fly seconds 522487.0
      Init counter 1 Point ID <no text>
      Survey type Real Time Plate H.Dist <null>
      Plate V.Dist <null> Plate azimuth <null>

EQUIP NM Receiver SPS881 Serial no 4813149404
      Antenna R8 Model 2/SPS88x Internal
      Meas To Bottom of antenna mount
      Tape adj 0.000 Serial no <no text>
      H.Offset 0.000 V.Offset 0.213

NOTE NM Receiver firmware version=3.710

GPSANT KI Antenna ht 9.700 Measurement Uncorrected

GPSVEC SO Point ID Auto0059 DX -7594.793 DY 3076.144
      Class Stake out DZ -564.129 Code 102-1-30-09CHK
      Obs L1 Fixed H.pr 0.025 V.pr 0.041

GPSQC1 NM Min SVs 7 PDOP max 1.5
      Relative DOPs Yes HDOP max 0.8
      Total GPS pos 3 VDOP max 1.3
      Monitor status Not monitored RMS 11.9
      Horz SD Vert SD
      Start wk 1516 sec 522535.0 End wk 1516 sec 522538.0

GPSQC2 NM Ttl satellites 10 Err Scale 0.0099999998
      VCV xx 0.0000682628 VCV xy 0.0000617748
      VCV xz -0.0000322563 VCV yy 0.0000946383
      VCV yz -0.0000408528 VCV zz 0.000049765

PT DGN SO Name 102 To the Point

GRID D SO Delta N -0.024 Delta E -0.030
      Delta Elv -0.001

SURVEY EVENTKISurvey event Survey ended

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

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SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1516
Init type On the fly seconds 523108.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
SURVEY EVENTKISurvey event Survey ended
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1516
Init type On the fly seconds 523481.0
Init counter 3 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
EQUIP NM Receiver SPS881 Serial no 4813149404
Antenna R8 Model 2/SPS88x Internal
Meas To Bottom of antenna mount
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.213
NOTE NM Receiver firmware version=3.710
GPSANT KI Antenna ht 9.700 Measurement Uncorrected
GPSVEC SO Point ID Auto0060 DX -4430.889 DY 2648.948
Class Stake out DZ 679.259 Code 107-1-30-09CHK
Obs L1 Fixed H.pr 0.020 V.pr 0.040
GPSQC1 NM Min SVs 11 PDOP max 1.4
Relative DOPs Yes HDOP max 0.6
Total GPS pos 4 VDOP max 1.3
Monitor status Not monitored RMS 18.3
Horz SD Vert SD
Start wk 1516 sec 523520.0 End wk 1516 sec 523523.0
GPSQC2 NM Ttl satellites 11 Err Scale 0.0099999998
VCV xx 0.0000598084 VCV xy 0.0000569163
VCV xz -0.0000356114 VCV yy 0.0000798075
VCV yz -0.0000463645 VCV zz 0.0000480059
PT DGN SO Name 107 To the Point
GRID D SO Delta N -0.027 Delta E -0.003
Delta Elv -0.018
SURVEY EVENTKISurvey event Survey ended
NOTE TS Time Date 01/30/2009 Time 17:34:38
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started

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GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1516
Init type On the fly seconds 524112.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
EQUIP NM Receiver SPS881 Serial no 4813149404
Antenna R8 Model 2/SPS88x Internal
Meas To Bottom of antenna mount
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.213
NOTE NM Receiver firmware version=3.710
GPSANT KI Antenna ht 9.700 Measurement Uncorrected
GPSVEC SO Point ID Auto0061 DX -1876.101 DY 316.357
Class Stake out DZ -689.516 Code 114-1-30-09CHK
Obs L1 Fixed H.pr 0.018 V.pr 0.041
GPSQC1 NM Min SVs 10 PDOP max 1.4
Relative DOPs Yes HDOP max 0.6
Total GPS pos 4 VDOP max 1.3
Monitor status Not monitored RMS 6.4
Horz SD Vert SD
Start wk 1516 sec 524185.0 End wk 1516 sec 524188.0
GPSQC2 NM Ttl satellites 10 Err Scale 0.0099999998
VCV xx 0.0000547966 VCV xy 0.0000549887
VCV xz -0.000040623 VCV yy 0.0000745709
VCV yz -0.0000524861 VCV zz 0.0000537973
PT DGN SO Name 114 To the Point
GRID D SO Delta N 0.019 Delta E -0.012
Delta Elv -0.016
SURVEY EVENTKISurvey event Survey ended
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1516
Init type On the fly seconds 524691.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
EQUIP NM Receiver SPS881 Serial no 4813149404
Antenna R8 Model 2/SPS88x Internal
Meas To Bottom of antenna mount
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.213
NOTE NM Receiver firmware version=3.710
GPSANT KI Antenna ht 9.700 Measurement Uncorrected
GPSVEC SO Point ID Auto0062 DX -5210.974 DY 2243.843
Class Stake out DZ -236.928 Code 434-1-30-09HK
Obs L1 Fixed H.pr 0.019 V.pr 0.039

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GPSQC1 NM Min SVs 11 PDOP max 1.4
Relative DOPs Yes HDOP max 0.6
Total GPS pos 4 VDOP max 1.2
Monitor status Not monitored RMS 15.6
Horz SD Vert SD
Start wk 1516 sec 524787.0 End wk 1516 sec 524790.0

GPSQC2 NM Ttl satellites 11 Err Scale 0.0099999998
VCV xx 0.0000443369 VCV xy 0.0000438598
VCV xz -0.0000319083 VCV yy 0.0000719584
VCV yz -0.0000506138 VCV zz 0.000059802

PT DGN SO Name 434 To the Point

GRID D SO Delta N 0.093 Delta E -0.124
Delta Elv -0.068

SURVEY EVENTKISurvey event Survey ended

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI Antenna ht 0.000 Measurement True

GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>

EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000

NOTE NM Receiver firmware version=0.000

GPSANT KI Antenna ht 4.245 Measurement True

GPSREF KI Reference 44501

INIT KI Init event Gained Week 1516
Init type On the fly seconds 525431.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>

EQUIP NM Receiver SPS881 Serial no 4813149404
Antenna R8 Model 2/SPS88x Internal
Meas To Bottom of antenna mount
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.213

NOTE NM Receiver firmware version=3.710

GPSANT KI Antenna ht 9.700 Measurement Uncorrected

GPSVEC SO Point ID Auto0063 DX -6176.748 DY 1202.816
Class Stake out DZ -2022.263 Code 106-130-09RECHK-
Obs L1 Fixed H.pr 0.019 V.pr 0.036

F-CODE SO Code 106-130-09RECHK-TALL POLE

GPSQC1 NM Min SVs 11 PDOP max 1.3
Relative DOPs Yes HDOP max 0.6
Total GPS pos 4 VDOP max 1.1
Monitor status Not monitored RMS 16.6
Horz SD Vert SD
Start wk 1516 sec 525539.0 End wk 1516 sec 525542.0

GPSQC2 NM Ttl satellites 11 Err Scale 0.0099999998
VCV xx 0.0000342392 VCV xy 0.0000311803
VCV xz -0.0000237039 VCV yy 0.0000573259
VCV yz -0.0000428138 VCV zz 0.0000610667

PT DGN SO Name 106 To the Point

GRID D SO Delta N -0.026 Delta E -0.031
Delta Elv -0.043

GPSVEC SO Point ID Auto0064 DX -6101.761 DY 1541.958
Class Stake out DZ -1554.326 Code ABCS-CP420-1-30-
Obs L1 Fixed H.pr 0.020 V.pr 0.037

F-CODE SO Code ABCS-CP420-1-30-09CHK

GPSQC1 NM Min SVs 7 PDOP max 1.3
Relative DOPs Yes HDOP max 0.6
Total GPS pos 3 VDOP max 1.2
Monitor status Not monitored RMS 17.0
Horz SD Vert SD
Start wk 1516 sec 525768.0 End wk 1516 sec 525771.0

GPSQC2 NM Ttl satellites 7 Err Scale 0.0099999998
VCV xx 0.0000322694 VCV xy 0.0000303883
VCV xz -0.0000233197 VCV yy 0.0000614759
VCV yz -0.0000492575 VCV zz 0.0000735323
    
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PT DGN SO Name          420          To the Point
GRID D SO Delta N      -0.001      Delta E      -0.004
        Delta Ely      -0.014
NOTE   TS Time Date 01/30/2009 Time 18:06:59
SURVEY EVENTKISurvey event Survey ended
NOTE   TS Time Date 05/01/2009 Time 13:43:55
NOTE   TS Time Date 06/18/2009 Time 18:34:48
SURVEY KI Elev mask 10          PDOP mask 6.0
SURVEY KI Elev mask 10          PDOP mask 6.0
SURVEY KI Elev mask 10          PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000          Measuremt True
GPSPOS FD Point ID 44501          Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control          Hgt 1645.648          Code 1_30_09_BASE
        Obs User Input          H.pr <null>          V.pr <null>
EQUIP  SI Receiver SPS851          Serial no <no text>
        Antenna Zephyr - Model 2
        Meas To Antenna Phase Center
        Tape adj 0.000          Serial no <no text>
        H.Offset 0.000          V.Offset 0.000
NOTE   NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245          Measuremt True
GPSREF KI Reference 44501
INIT   KI Init event Gained          Week 1536
        Init type On the fly          seconds 437711.0
        Init counter 1          Point ID <no text>
        Survey type Real Time          Plate H.Dist <null>
        Plate V.Dist <null>          Plate azimuth <null>
NOTE   NM Following data imported from Phase 4 Stake.job
NOTE   NM Deleted 3:40:25 PM 7/17/2009
NOTE   NM Modified 6:28:16 PM 6/18/2009
NOTE   NM Old values
SURVEY EVENTKISurvey event Survey ended
NOTE   TS Time Date 07/17/2009 Time 15:41:25
NOTE   TS Time Date 08/20/2009 Time 06:42:23
NOTE   NM Following data imported from CAMU Controll1.CSV
NOTE   NM Following data imported from 8-19-09 GEOSYNTEC INTERIM CVR
NOTE   NM POINTS.CSV
NOTE   TS Time Date 09/24/2009 Time 15:49:07
SURVEY KI Elev mask 10          PDOP mask 6.0
SURVEY KI Elev mask 10          PDOP mask 6.0
SURVEY KI Elev mask 10          PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000          Measuremt True
GPSPOS FD Point ID 44501          Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control          Hgt 1645.648          Code 1_30_09_BASE
        Obs User Input          H.pr <null>          V.pr <null>
EQUIP  SI Receiver SPS851          Serial no <no text>
        Antenna Zephyr - Model 2
        Meas To Antenna Phase Center
        Tape adj 0.000          Serial no <no text>
        H.Offset 0.000          V.Offset 0.000
NOTE   NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245          Measuremt True
GPSREF KI Reference 44501
INIT   KI Init event Gained          Week 1550
        Init type On the fly          seconds 427812.0
        Init counter 1          Point ID <no text>
        Survey type Real Time          Plate H.Dist <null>
        Plate V.Dist <null>          Plate azimuth <null>
NOTE   TS Time Date 09/24/2009 Time 16:23:07
SURVEY EVENTKISurvey event Survey ended
    
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NOTE    TS    Time Date 09/25/2009 Time 06:44:01
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  EVENTKISurvey event Rover survey started
GPSANT  KI    Antenna ht 0.000                  Measurement True
GPSPOS  FD    Point ID 44501      Lat 36°03'10.29917"N Lng 114°59'31.59480"W
          Class Control      Hgt 1645.648      Code 1_30_09_BASE
          Obs User Input      H.pr <null>      V.pr <null>
EQUIP   SI    Receiver SPS851                  Serial no <no text>
          Antenna Zephyr - Model 2
          Meas To Antenna Phase Center
          Tape adj 0.000      Serial no <no text>
          H.Offset 0.000      V.Offset 0.000
NOTE    NM    Receiver firmware version=0.000
GPSANT  KI    Antenna ht 4.245                  Measurement True
GPSREF  KI    Reference 44501
INIT    KI    Init event Gained      Week 1550
          Init type On the fly      seconds 481466.0
          Init counter 1      Point ID <no text>
          Survey type Real Time      Plate H.Dist <null>
          Plate V.Dist <null>      Plate azimuth <null>
NOTE    TS    Time Date 09/25/2009 Time 07:31:22
SURVEY  EVENTKISurvey event Survey ended
NOTE    TS    Time Date 09/26/2009 Time 14:39:10
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  EVENTKISurvey event Rover survey started
GPSANT  KI    Antenna ht 0.000                  Measurement True
GPSPOS  FD    Point ID 44501      Lat 36°03'10.29917"N Lng 114°59'31.59480"W
          Class Control      Hgt 1645.648      Code 1_30_09_BASE
          Obs User Input      H.pr <null>      V.pr <null>
EQUIP   SI    Receiver SPS851                  Serial no <no text>
          Antenna Zephyr - Model 2
          Meas To Antenna Phase Center
          Tape adj 0.000      Serial no <no text>
          H.Offset 0.000      V.Offset 0.000
NOTE    NM    Receiver firmware version=0.000
GPSANT  KI    Antenna ht 4.245                  Measurement True
GPSREF  KI    Reference 44501
INIT    KI    Init event Gained      Week 1550
          Init type On the fly      seconds 596375.0
          Init counter 2      Point ID <no text>
          Survey type Real Time      Plate H.Dist <null>
          Plate V.Dist <null>      Plate azimuth <null>
EQUIP   NM    Receiver SPS881                  Serial no 4813149404
          Antenna R8 Model 2/SPS88x Internal
          Meas To Bottom of antenna mount
          Tape adj 0.000      Serial no <no text>
          H.Offset 0.000      V.Offset 0.213
NOTE    NM    Receiver firmware version=3.710
GPSANT  KI    Antenna ht 6.562                  Measurement Uncorrected
GPSVEC  SO    Point ID 2300      DX -6685.060      DY 1407.210
          Class Stake out      DZ -2064.541      Code Toe
          Obs L1 Fixed      H.pr 0.017      V.pr 0.032
GPSQC1  NM    Min SVs 14      PDOP max 1.1
          Relative DOPs Yes      HDOP max 0.5
          Total GPS pos 6      VDOP max 1.0
          Monitor status Not monitored      RMS 26.8
          Horz SD      Vert SD
          Start wk 1550 sec 598100.0      End wk 1550 sec 598105.0
GPSQC2  NM    Ttl satellites 14      Err Scale 0.0099999998
          VCV xx 0.0000153946      VCV xy 0.0000151517
          VCV xz -0.0000153069      VCV yy 0.0000492249
          VCV yz -0.0000390051      VCV zz 0.0000570047
PT DGN  SO    Name 10113      To the Point
GRID D  SO    Delta N 0.019      Delta E -0.019
          Delta Elv 0.260
    
```

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NOTE    TS    Time Date 09/26/2009 Time 15:10:00

GPSVEEC SO    Point ID 2301      DX    -6803.937      DY    1451.502
          Class Stake out      DZ    -2079.012      Code Toe
          Obs L1 Fixed          H.pr 0.018      V.pr 0.036

GPSQC1  NM    Min SVs      14          PDOP max 1.2
          Relative DOPs Yes      HDOP max 0.6
          Total GPS pos 6        VDOP max 1.1
          Monitor status Not monitored RMS      20.9
          Horz SD              Vert SD
          Start wk 1550 sec 598209.0 End wk 1550 sec 598214.0

GPSQC2  NM    Ttl satellites 14          Err Scale 0.0099999998
          VCV xx 0.0000194876      VCV xy 0.0000199639
          VCV xz -0.0000214405      VCV yy 0.0000592478
          VCV yz -0.0000473744      VCV zz 0.0000712518

PT DGN  SO    Name      10116          To the Point

GRID D  SO    Delta N      0.047          Delta E      -0.017
          Delta Elv      0.075

GPSVEEC SO    Point ID 2302      DX    -6850.588      DY    1469.009
          Class Stake out      DZ    -2084.685      Code Toe
          Obs L1 Fixed          H.pr 0.019      V.pr 0.036

GPSQC1  NM    Min SVs      14          PDOP max 1.3
          Relative DOPs Yes      HDOP max 0.6
          Total GPS pos 6        VDOP max 1.1
          Monitor status Not monitored RMS      15.4
          Horz SD              Vert SD
          Start wk 1550 sec 598267.0 End wk 1550 sec 598272.0

GPSQC2  NM    Ttl satellites 14          Err Scale 0.0099999998
          VCV xx 0.0000203216      VCV xy 0.0000209234
          VCV xz -0.0000227841      VCV yy 0.0000611555
          VCV yz -0.0000490147      VCV zz 0.0000739679

PT DGN  SO    Name      10117          To the Point

GRID D  SO    Delta N      -0.017         Delta E      0.010
          Delta Elv      0.091

SURVEY  KI    Elev mask 10          PDOP mask 6.0

SURVEY  KI    Elev mask 10          PDOP mask 6.0

SURVEY  KI    Elev mask 10          PDOP mask 6.0

SURVEY  EVENTKISurvey event Rover survey started

GPSANT  KI    Antenna ht 0.000          Measuremt True

GPSPOS  FD    Point ID 44501      Lat 36°03'10.29917"N Lng 114°59'31.59480"W
          Class Control      Hgt 1645.648      Code 1_30_09_BASE
          Obs User Input      H.pr <null>      V.pr <null>

EQUIP   SI    Receiver SPS851          Serial no <no text>
          Antenna Zephyr - Model 2
          Meas To Antenna Phase Center
          Tape adj 0.000          Serial no <no text>
          H.Offset 0.000          V.Offset 0.000

NOTE    NM    Receiver firmware version=0.000

GPSANT  KI    Antenna ht 4.245          Measuremt True

GPSREF  KI    Reference 44501

INIT    KI    Init event Gained          Week      1550
          Init type On the fly          seconds 598701.0
          Init counter 1          Point ID <no text>
          Survey type Real Time          Plate H.Dist <null>
          Plate V.Dist <null>          Plate azimuth <null>

EQUIP   NM    Receiver SPS881          Serial no 4813149404
          Antenna R8 Model 2/SPS88x Internal
          Meas To Bottom of antenna mount
          Tape adj 0.000          Serial no <no text>
          H.Offset 0.000          V.Offset 0.213

NOTE    NM    Receiver firmware version=3.710

GPSANT  KI    Antenna ht 6.562          Measuremt Uncorrected

GPSVEEC SO    Point ID 2303      DX    -6187.670      DY    1237.716
          Class Stake out      DZ    -1989.675      Code Toe
          Obs L1 Fixed          H.pr 0.019      V.pr 0.040

GPSQC1  NM    Min SVs      11          PDOP max 1.4
          Relative DOPs Yes      HDOP max 0.6
          Total GPS pos 6        VDOP max 1.2
          Monitor status Not monitored RMS      14.5
          Horz SD              Vert SD
          Start wk 1550 sec 598858.0 End wk 1550 sec 598863.0

GPSQC2  NM    Ttl satellites 11          Err Scale 0.0099999998
          VCV xx 0.0000251066      VCV xy 0.0000265896
          VCV xz -0.0000340741      VCV yy 0.0000633869
          VCV yz -0.0000596155      VCV zz 0.0000950244
    
```

PT DGN SO Name 10102 To the Point  
 GRID D SO Delta N 0.034 Delta E 0.025  
 Delta Elv -0.043  
 GPSVEC SO Point ID 2304 DX -6167.358 DY 1255.983  
 Class Stake out DZ -1956.465 Code Toe  
 Obs L1 Fixed H.pr 0.021 V.pr 0.045  
 GPSQC1 NM Min SVs 11 PDOP max 1.5  
 Relative DOPs Yes HDOP max 0.6  
 Total GPS pos 6 VDOP max 1.4  
 Monitor status Not monitored RMS 11.3  
 Horz SD Vert SD  
 Start wk 1550 sec 598936.0 End wk 1550 sec 598941.0  
 GPSQC2 NM Ttl satellites 11 Err Scale 0.0099999998  
 VCV xx 0.0000321685 VCV xy 0.0000354664  
 VCV xz -0.0000479888 VCV yy 0.000074902  
 VCV yz -0.0000748656 VCV zz 0.0001191208

PT DGN SO Name 10101 To the Point  
 GRID D SO Delta N 0.030 Delta E 0.008  
 Delta Elv -0.057  
 GPSVEC SO Point ID 2305 DX -6158.127 DY 1274.563  
 Class Stake out DZ -1929.547 Code Toe  
 Obs L1 Fixed H.pr 0.021 V.pr 0.046  
 GPSQC1 NM Min SVs 11 PDOP max 1.6  
 Relative DOPs Yes HDOP max 0.7  
 Total GPS pos 6 VDOP max 1.4  
 Monitor status Not monitored RMS 9.5  
 Horz SD Vert SD  
 Start wk 1550 sec 599008.0 End wk 1550 sec 599013.0  
 GPSQC2 NM Ttl satellites 11 Err Scale 0.0099999998  
 VCV xx 0.0000341723 VCV xy 0.0000377413  
 VCV xz -0.0000512132 VCV yy 0.0000783596  
 VCV yz -0.0000780112 VCV zz 0.0001235646

PT DGN SO Name 10100 To the Point  
 GRID D SO Delta N 0.053 Delta E -0.056  
 Delta Elv 0.308

SURVEY EVENTKISurvey event Survey ended  
 SURVEY KI Elev mask 10 PDOP mask 6.0  
 SURVEY KI Elev mask 10 PDOP mask 6.0  
 SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started  
 GPSANT KI Antenna ht 0.000 Measuremt True  
 GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W  
 Class Control Hgt 1645.648 Code 1\_30\_09\_BASE  
 Obs User Input H.pr <null> V.pr <null>

EQUIP SI Receiver SPS851 Serial no <no text>  
 Antenna Zephyr - Model 2  
 Meas To Antenna Phase Center  
 Tape adj 0.000 Serial no <no text>  
 H.Offset 0.000 V.Offset 0.000

NOTE NM Receiver firmware version=0.000  
 GPSANT KI Antenna ht 4.245 Measuremt True

GPSREF KI Reference 44501  
 INIT KI Init event Gained Week 1550  
 Init type On the fly seconds 599401.0  
 Init counter 1 Point ID <no text>  
 Survey type Real Time Plate H.Dist <null>  
 Plate V.Dist <null> Plate azimuth <null>

EQUIP NM Receiver SPS881 Serial no 4813149404  
 Antenna R8 Model 2/SPS88x Internal  
 Meas To Bottom of antenna mount  
 Tape adj 0.000 Serial no <no text>  
 H.Offset 0.000 V.Offset 0.213

NOTE NM Receiver firmware version=3.710  
 GPSANT KI Antenna ht 6.562 Measuremt Uncorrected

GPSVEC SO Point ID 2306 DX -6380.943 DY 1436.736  
 Class Stake out DZ -1860.416 Code Toe  
 Obs L1 Fixed H.pr 0.020 V.pr 0.041

GPSQC1 NM Min SVs 11 PDOP max 1.4  
 Relative DOPs Yes HDOP max 0.6  
 Total GPS pos 6 VDOP max 1.3  
 Monitor status Not monitored RMS 16.1  
 Horz SD Vert SD  
 Start wk 1550 sec 599620.0 End wk 1550 sec 599625.0

```

GPSQC2 NM Ttl satellites 11 Err Scale 0.0099999998
VCV xx 0.0000311979 VCV xy 0.0000313013
VCV xz -0.0000401984 VCV yy 0.0000716243
VCV yz -0.0000578396 VCV zz 0.0000901334

PT DGN SO Name 10090 To the Point

GRID D SO Delta N 0.037 Delta E 0.080
Delta Elv 0.060

GPSVEC SO Point ID 2307 DX -6420.402 DY 1465.518
Class Stake out DZ -1848.024 Code Toe
Obs L1 Fixed H.pr 0.020 V.pr 0.038

GPSQC1 NM Min SVs 12 PDOP max 1.4
Relative DOPs Yes HDOP max 0.6
Total GPS pos 6 VDOP max 1.2
Monitor status Not monitored RMS 15.9
Horz SD Vert SD
Start wk 1550 sec 599670.0 End wk 1550 sec 599675.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998
VCV xx 0.0000301201 VCV xy 0.0000275022
VCV xz -0.0000376016 VCV yy 0.0000604307
VCV yz -0.0000502706 VCV zz 0.0000843894

PT DGN SO Name 10089 To the Point

GRID D SO Delta N -0.003 Delta E -0.006
Delta Elv 0.148

GPSVEC SO Point ID 2308 DX -6503.902 DY 1510.199
Class Stake out DZ -1841.573 Code Toe
Obs L1 Fixed H.pr 0.020 V.pr 0.036

GPSQC1 NM Min SVs 12 PDOP max 1.3
Relative DOPs Yes HDOP max 0.6
Total GPS pos 6 VDOP max 1.1
Monitor status Not monitored RMS 12.7
Horz SD Vert SD
Start wk 1550 sec 599734.0 End wk 1550 sec 599739.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998
VCV xx 0.0000289697 VCV xy 0.0000235608
VCV xz -0.0000344825 VCV yy 0.0000494034
VCV yz -0.0000417131 VCV zz 0.0000769431

PT DGN SO Name 10087 To the Point

GRID D SO Delta N -0.029 Delta E -0.018
Delta Elv 0.142

GPSVEC SO Point ID 2309 DX -6548.355 DY 1533.866
Class Stake out DZ -1838.264 Code Toe
Obs L1 Fixed H.pr 0.020 V.pr 0.035

GPSQC1 NM Min SVs 13 PDOP max 1.3
Relative DOPs Yes HDOP max 0.6
Total GPS pos 5 VDOP max 1.1
Monitor status Not monitored RMS 11.2
Horz SD Vert SD
Start wk 1550 sec 599790.0 End wk 1550 sec 599796.0

GPSQC2 NM Ttl satellites 13 Err Scale 0.0099999998
VCV xx 0.0000288769 VCV xy 0.0000234912
VCV xz -0.0000334244 VCV yy 0.0000506411
VCV yz -0.0000399505 VCV zz 0.0000731715

PT DGN SO Name 10086 To the Point

GRID D SO Delta N -0.018 Delta E -0.090
Delta Elv 0.142

GPSVEC SO Point ID 2310 DX -6611.267 DY 1572.917
Class Stake out DZ -1826.469 Code toe
Obs L1 Fixed H.pr 0.020 V.pr 0.036

GPSQC1 NM Min SVs 12 PDOP max 1.3
Relative DOPs Yes HDOP max 0.6
Total GPS pos 6 VDOP max 1.1
Monitor status Not monitored RMS 12.9
Horz SD Vert SD
Start wk 1550 sec 599889.0 End wk 1550 sec 599894.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998
VCV xx 0.0000297264 VCV xy 0.0000248622
VCV xz -0.0000344894 VCV yy 0.0000552351
VCV yz -0.0000428942 VCV zz 0.0000755101

PT DGN SO Name 10083 To the Point

GRID D SO Delta N -0.024 Delta E -0.067
Delta Elv 0.055

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NOTE NM Modified 11:34:08 AM 10/19/2009

NOTE NM Old values 710083

NOTE NM Modified 11:11:24 AM 10/19/2009

NOTE NM Old values Toe

GPSVEC SO Point ID 2311 DX -6654.363 DY 1635.901  
 Class Stake out DZ -1773.625 Code toe  
 Obs L1 Fixed H.pr 0.020 V.pr 0.036

GPSQC1 NM Min SVs 12 PDOP max 1.3  
 Relative DOPs Yes HDOP max 0.6  
 Total GPS pos 6 VDOP max 1.1  
 Monitor status Not monitored RMS 14.9  
 Horz SD Vert SD  
 Start wk 1550 sec 599977.0 End wk 1550 sec 599982.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998  
 VCV xx 0.0000293848 VCV xy 0.0000238343  
 VCV xz -0.0000331915 VCV yy 0.0000530379  
 VCV yz -0.0000407494 VCV zz 0.0000719992

PT DGN SO Name 10081 To the Point

GRID D SO Delta N -0.065 Delta E -0.049  
 Delta Elv -0.014

NOTE NM Modified 11:34:32 AM 10/19/2009

NOTE NM Old values 710081

NOTE NM Modified 11:11:47 AM 10/19/2009

NOTE NM Old values Toe

NOTE TS Time Date 09/26/2009 Time 15:40:18

GPSVEC SO Point ID 2312 DX -6671.417 DY 1661.218  
 Class Stake out DZ -1752.236 Code toe  
 Obs L1 Fixed H.pr 0.020 V.pr 0.036

GPSQC1 NM Min SVs 12 PDOP max 1.3  
 Relative DOPs Yes HDOP max 0.6  
 Total GPS pos 6 VDOP max 1.1  
 Monitor status Not monitored RMS 15.6  
 Horz SD Vert SD  
 Start wk 1550 sec 600025.0 End wk 1550 sec 600030.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998  
 VCV xx 0.0000292265 VCV xy 0.000024161  
 VCV xz -0.0000326943 VCV yy 0.0000553152  
 VCV yz -0.0000409811 VCV zz 0.0000703132

PT DGN SO Name 10080 To the Point

GRID D SO Delta N -0.024 Delta E 0.033  
 Delta Elv -0.031

NOTE NM Modified 11:36:03 AM 10/19/2009

NOTE NM Old values 710080

NOTE NM Modified 11:12:06 AM 10/19/2009

NOTE NM Old values Toe

INIT KI Init event Lost Week 1550  
 Init type On the fly seconds 600550.0  
 Init counter 1 Point ID <no text>  
 Survey type Real Time Plate H.Dist <null>  
 Plate V.Dist <null> Plate azimuth <null>

INIT KI Init event Gained Week 1550  
 Init type On the fly seconds 600693.0  
 Init counter 2 Point ID <no text>  
 Survey type Real Time Plate H.Dist <null>  
 Plate V.Dist <null> Plate azimuth <null>

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/28/2009 Time 06:11:53

NOTE TS Time Date 09/28/2009 Time 13:31:07

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI Antenna ht 0.000 Measurement True

GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W  
 Class Control Hgt 1645.648 Code 1\_30\_09\_BASE  
 Obs User Input H.pr <null> V.pr <null>

EQUIP SI Receiver SPS851 Serial no <no text>  
 Antenna Zephyr - Model 2  
 Meas To Antenna Phase Center  
 Tape adj 0.000 Serial no <no text>  
 H.Offset 0.000 V.Offset 0.000

NOTE NM Receiver firmware version=0.000

GPSANT KI Antenna ht 4.245 Measurement True

GPSREF KI Reference 44501

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INIT   KI   Init event   Gained           Week           1551
        Init type    On the fly      seconds        160343.0
        Init counter  1              Point ID       <no text>
        Survey type   Real Time      Plate H.Dist   <null>
        Plate V.Dist  <null>        Plate azimuth  <null>

NOTE   TS   Time Date   09/28/2009 Time 15:27:09

SURVEY EVENTKISurvey event Survey ended

NOTE   TS   Time Date   09/30/2009 Time 09:59:22

SURVEY KI   Elev mask 10              PDOP mask 6.0

SURVEY KI   Elev mask 10              PDOP mask 6.0

SURVEY KI   Elev mask 10              PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI   Antenna ht 0.000           Measuremt True

GPSPOS FD   Point ID 44501           Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control Hgt 1645.648           Code 1_30_09_BASE
        Obs User Input H.pr <null>           V.pr <null>

EQUIP  SI   Receiver  SPS851              Serial no <no text>
        Antenna   Zephyr - Model 2
        Meas To   Antenna Phase Center
        Tape adj  0.000              Serial no <no text>
        H.Offset  0.000              V.Offset  0.000

NOTE   NM   Receiver firmware version=0.000

GPSANT KI   Antenna ht 4.245           Measuremt True

GPSREF KI   Reference 44501

INIT   KI   Init event   Gained           Week           1551
        Init type    On the fly      seconds        320388.0
        Init counter  2              Point ID       <no text>
        Survey type   Real Time      Plate H.Dist   <null>
        Plate V.Dist  <null>        Plate azimuth  <null>

SURVEY EVENTKISurvey event Survey ended

NOTE   TS   Time Date   09/30/2009 Time 13:27:15

NOTE   NM   Following data imported from 9-30-09 Interim Cvr 2ft toe

NOTE   NM   pnts for Russ.csv

NOTE   KI   Deleted LINE. Name: Line0001, Code: , Method: Two points,

NOTE   KI   Start pt: 10109, End pt: 10050, Azimuth: 350.811°,

NOTE   KI   Length: 73.517sft, Grade: 18.436°

NOTE   NM   Deleted 1:51:26 PM 9/30/2009

SURVEY KI   Elev mask 10              PDOP mask 6.0

SURVEY KI   Elev mask 10              PDOP mask 6.0

SURVEY KI   Elev mask 10              PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI   Antenna ht 0.000           Measuremt True

GPSPOS FD   Point ID 44501           Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control Hgt 1645.648           Code 1_30_09_BASE
        Obs User Input H.pr <null>           V.pr <null>

EQUIP  SI   Receiver  SPS851              Serial no <no text>
        Antenna   Zephyr - Model 2
        Meas To   Antenna Phase Center
        Tape adj  0.000              Serial no <no text>
        H.Offset  0.000              V.Offset  0.000

NOTE   NM   Receiver firmware version=0.000

GPSANT KI   Antenna ht 4.245           Measuremt True

GPSREF KI   Reference 44501

INIT   KI   Init event   Gained           Week           1551
        Init type    On the fly      seconds        334378.0
        Init counter  1              Point ID       <no text>
        Survey type   Real Time      Plate H.Dist   <null>
        Plate V.Dist  <null>        Plate azimuth  <null>

NOTE   TS   Time Date   09/30/2009 Time 14:42:00

SURVEY EVENTKISurvey event Survey ended

NOTE   TS   Time Date   10/01/2009 Time 14:23:36

SURVEY KI   Elev mask 10              PDOP mask 6.0

SURVEY KI   Elev mask 10              PDOP mask 6.0

SURVEY KI   Elev mask 10              PDOP mask 6.0
    
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SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1551
Init type On the fly seconds 422733.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
NOTE TS Time Date 10/01/2009 Time 15:35:43
SURVEY EVENTKISurvey event Survey ended
NOTE TS Time Date 10/02/2009 Time 07:02:28
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1551
Init type On the fly seconds 482615.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
NOTE TS Time Date 10/02/2009 Time 07:34:22
SURVEY EVENTKISurvey event Survey ended
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1551
Init type On the fly seconds 485570.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
NOTE TS Time Date 10/02/2009 Time 08:37:27
SURVEY EVENTKISurvey event Survey ended

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NOTE    TS    Time Date 10/05/2009 Time 06:25:24
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  EVENTKISurvey event Rover survey started
GPSANT  KI    Antenna ht 0.000                  Measurement True
GPSPOS  FD    Point ID 44501                    Lat 36°03'10.29917"N Lng 114°59'31.59480"W
          Class Control                        Hgt 1645.648          Code 1_30_09_BASE
          Obs User Input                        H.pr <null>          V.pr <null>
EQUIP   SI    Receiver SPS851                    Serial no <no text>
          Antenna Zephyr - Model 2
          Meas To Antenna Phase Center
          Tape adj 0.000                        Serial no <no text>
          H.Offset 0.000                       V.Offset 0.000
NOTE    NM    Receiver firmware version=0.000
GPSANT  KI    Antenna ht 4.245                  Measurement True
GPSREF  KI    Reference 44501
INIT    KI    Init event Gained                    Week 1552
          Init type On the fly                    seconds 135227.0
          Init counter 1                          Point ID <no text>
          Survey type Real Time                    Plate H.Dist <null>
          Plate V.Dist <null>                      Plate azimuth <null>
NOTE    TS    Time Date 10/05/2009 Time 06:58:41
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  EVENTKISurvey event Rover survey started
GPSANT  KI    Antenna ht 0.000                  Measurement True
GPSPOS  FD    Point ID 44501                    Lat 36°03'10.29917"N Lng 114°59'31.59480"W
          Class Control                        Hgt 1645.648          Code 1_30_09_BASE
          Obs User Input                        H.pr <null>          V.pr <null>
EQUIP   SI    Receiver SPS851                    Serial no <no text>
          Antenna Zephyr - Model 2
          Meas To Antenna Phase Center
          Tape adj 0.000                        Serial no <no text>
          H.Offset 0.000                       V.Offset 0.000
NOTE    NM    Receiver firmware version=0.000
GPSANT  KI    Antenna ht 4.245                  Measurement True
GPSREF  KI    Reference 44501
INIT    KI    Init event Gained                    Week 1552
          Init type On the fly                    seconds 136748.0
          Init counter 1                          Point ID <no text>
          Survey type Real Time                    Plate H.Dist <null>
          Plate V.Dist <null>                      Plate azimuth <null>
NOTE    TS    Time Date 10/05/2009 Time 08:16:48
SURVEY  EVENTKISurvey event Survey ended
NOTE    TS    Time Date 10/05/2009 Time 11:19:47
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  KI    Elev mask 10                      PDOP mask 6.0
SURVEY  EVENTKISurvey event Rover survey started
GPSANT  KI    Antenna ht 0.000                  Measurement True
GPSPOS  FD    Point ID 44501                    Lat 36°03'10.29917"N Lng 114°59'31.59480"W
          Class Control                        Hgt 1645.648          Code 1_30_09_BASE
          Obs User Input                        H.pr <null>          V.pr <null>
EQUIP   SI    Receiver SPS851                    Serial no <no text>
          Antenna Zephyr - Model 2
          Meas To Antenna Phase Center
          Tape adj 0.000                        Serial no <no text>
          H.Offset 0.000                       V.Offset 0.000
NOTE    NM    Receiver firmware version=0.000
GPSANT  KI    Antenna ht 4.245                  Measurement True
GPSREF  KI    Reference 44501

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INIT   KI   Init event   Gained           Week           1552
        Init type    On the fly      seconds       152414.0
        Init counter  1              Point ID      <no text>
        Survey type   Real Time      Plate H.Dist  <null>
        Plate V.Dist  <null>        Plate azimuth <null>

NOTE   TS   Time Date   10/05/2009 Time 11:50:50

SURVEY EVENTKISurvey event Survey ended

NOTE   TS   Time Date   10/06/2009 Time 09:44:49

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT  KI   Antenna ht 0.000           Measurement True

GPSPOS  FD   Point ID 44501           Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control Hgt 1645.648           Code 1_30_09_BASE
        Obs User Input H.pr <null>           V.pr <null>

EQUIP   SI   Receiver SPS851             Serial no <no text>
        Antenna Zephyr - Model 2
        Meas To Antenna Phase Center
        Tape adj 0.000           Serial no <no text>
        H.Offset 0.000           V.Offset 0.000

NOTE   NM   Receiver firmware version=0.000

GPSANT  KI   Antenna ht 4.245           Measurement True

GPSREF  KI   Reference 44501

INIT   KI   Init event   Gained           Week           1552
        Init type    On the fly      seconds       233115.0
        Init counter  1              Point ID      <no text>
        Survey type   Real Time      Plate H.Dist  <null>
        Plate V.Dist  <null>        Plate azimuth <null>

SURVEY EVENTKISurvey event Communications error

NOTE   TS   Time Date   10/06/2009 Time 11:15:49

SURVEY EVENTKISurvey event Survey ended

NOTE   TS   Time Date   10/06/2009 Time 15:52:40

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT  KI   Antenna ht 0.000           Measurement True

GPSPOS  FD   Point ID 44501           Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control Hgt 1645.648           Code 1_30_09_BASE
        Obs User Input H.pr <null>           V.pr <null>

EQUIP   SI   Receiver SPS851             Serial no <no text>
        Antenna Zephyr - Model 2
        Meas To Antenna Phase Center
        Tape adj 0.000           Serial no <no text>
        H.Offset 0.000           V.Offset 0.000

NOTE   NM   Receiver firmware version=0.000

GPSANT  KI   Antenna ht 4.245           Measurement True

GPSREF  KI   Reference 44501

INIT   KI   Init event   Gained           Week           1552
        Init type    On the fly      seconds       255187.0
        Init counter  1              Point ID      <no text>
        Survey type   Real Time      Plate H.Dist  <null>
        Plate V.Dist  <null>        Plate azimuth <null>

SURVEY EVENTKISurvey event Survey ended

NOTE   TS   Time Date   10/07/2009 Time 10:49:23

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT  KI   Antenna ht 0.000           Measurement True

GPSPOS  FD   Point ID 44501           Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control Hgt 1645.648           Code 1_30_09_BASE
        Obs User Input H.pr <null>           V.pr <null>
    
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EQUIP  SI  Receiver  SPS851          Serial no <no text>
        Antenna  Zephyr - Model 2
        Meas To  Antenna Phase Center
        Tape adj 0.000          Serial no <no text>
        H.Offset 0.000          V.Offset 0.000

NOTE   NM  Receiver firmware version=0.000

GPSANT KI  Antenna ht 4.245          Measuremt True

GPSREF KI  Reference 44501

INIT   KI  Init event  Gained          Week          1552
        Init type  On the fly       seconds       323388.0
        Init counter 1              Point ID      <no text>
        Survey type Real Time       Plate H.Dist <null>
        Plate V.Dist <null>         Plate azimuth <null>

NOTE   TS  Time Date 10/07/2009 Time 11:44:30

SURVEY EVENTKISurvey event Survey ended

NOTE   TS  Time Date 10/07/2009 Time 12:52:56

SURVEY KI  Elev mask 10          PDOP mask 6.0

SURVEY KI  Elev mask 10          PDOP mask 6.0

SURVEY KI  Elev mask 10          PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI  Antenna ht 0.000          Measuremt True

GPSPOS  FD  Point ID 44501          Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control          Hgt 1645.648          Code 1_30_09_BASE
        Obs User Input          H.pr <null>          V.pr <null>

EQUIP  SI  Receiver  SPS851          Serial no <no text>
        Antenna  Zephyr - Model 2
        Meas To  Antenna Phase Center
        Tape adj 0.000          Serial no <no text>
        H.Offset 0.000          V.Offset 0.000

NOTE   NM  Receiver firmware version=0.000

GPSANT KI  Antenna ht 4.245          Measuremt True

GPSREF KI  Reference 44501

INIT   KI  Init event  Gained          Week          1552
        Init type  On the fly       seconds       330811.0
        Init counter 1              Point ID      <no text>
        Survey type Real Time       Plate H.Dist <null>
        Plate V.Dist <null>         Plate azimuth <null>

NOTE   TS  Time Date 10/07/2009 Time 15:55:12

SURVEY EVENTKISurvey event Survey ended

NOTE   TS  Time Date 10/08/2009 Time 11:38:48

SURVEY KI  Elev mask 10          PDOP mask 6.0

SURVEY KI  Elev mask 10          PDOP mask 6.0

SURVEY KI  Elev mask 10          PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI  Antenna ht 0.000          Measuremt True

GPSPOS  FD  Point ID 44501          Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control          Hgt 1645.648          Code 1_30_09_BASE
        Obs User Input          H.pr <null>          V.pr <null>

EQUIP  SI  Receiver  SPS851          Serial no <no text>
        Antenna  Zephyr - Model 2
        Meas To  Antenna Phase Center
        Tape adj 0.000          Serial no <no text>
        H.Offset 0.000          V.Offset 0.000

NOTE   NM  Receiver firmware version=0.000

GPSANT KI  Antenna ht 4.245          Measuremt True

GPSREF KI  Reference 44501

INIT   KI  Init event  Gained          Week          1552
        Init type  On the fly       seconds       412752.0
        Init counter 1              Point ID      <no text>
        Survey type Real Time       Plate H.Dist <null>
        Plate V.Dist <null>         Plate azimuth <null>

SURVEY EVENTKISurvey event Survey ended

NOTE   TS  Time Date 10/08/2009 Time 12:43:10

SURVEY KI  Elev mask 10          PDOP mask 6.0

SURVEY KI  Elev mask 10          PDOP mask 6.0

SURVEY KI  Elev mask 10          PDOP mask 6.0
    
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SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1552
Init type On the fly seconds 416617.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
NOTE TS Time Date 10/08/2009 Time 13:26:39
SURVEY EVENTKISurvey event Survey ended
NOTE TS Time Date 10/09/2009 Time 06:42:44
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1552
Init type On the fly seconds 481390.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
EQUIP NM Receiver SPS881 Serial no 4813149404
Antenna R8 Model 2/SPS88x Internal
Meas To Bottom of antenna mount
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.213
NOTE NM Receiver firmware version=3.710
GPSANT KI Antenna ht 6.562 Measurement Uncorrected
GPSVEC SO Point ID 84000 DX -6175.684 DY 1205.111
Class Stake out DZ -2024.102 Code 10-9-09
Obs L1 Fixed H.pr 0.019 V.pr 0.025
GPSQC1 NM Min SVs 10 PDOP max 1.0
Relative DOPs Yes HDOP max 0.6
Total GPS pos 5 VDOP max 0.8
Monitor status Not monitored RMS 20.9
Horz SD Vert SD
Start wk 1552 sec 481711.0 End wk 1552 sec 481716.0
GPSQC2 NM Ttl satellites 14 Err Scale 0.0099999998
VCV xx 0.00001737 VCV xy 0.0000164383
VCV xz 0.0000001327 VCV yy 0.000050809
VCV yz -0.0000147091 VCV zz 0.0000228936
PT DGN SO Name 106 To the Point
GRID D SO Delta N -0.028 Delta E -0.024
Delta Elv -0.054
GPSVEC SO Point ID 84001 DX -6482.492 DY 1331.858
Class Stake out DZ -2039.696 Code 810109
Obs L1 Fixed H.pr 0.021 V.pr 0.026

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GPSQC1 NM Min SVs      14          PDOP max  1.0
          Relative DOPs Yes        HDOP max  0.6
          Total GPS pos 6          VDOP max  0.8
          Monitor status Not monitored RMS       14.4
          Horz SD          Vert SD
          Start wk 1552 sec 481871.0 End wk 1552 sec 481876.0

GPSQC2 NM Ttl satellites 14          Err Scale 0.0099999998
          VCV xx 0.0000223033      VCV xy 0.0000219893
          VCV xz 0.0000006863      VCV yy 0.0000568327
          VCV yz -0.0000138685     VCV zz 0.000025173

PT DGN SO Name          10109          To the Point

GRID D SO Delta N      -0.021          Delta E      -0.044
          Delta Elv    0.054

GPSVEC SO Point ID 84002      DX -6433.796      DY 1314.008
          Class Stake out      DZ -2033.811      Code 810108
          Obs L1 Fixed          H.pr 0.021      V.pr 0.027

GPSQC1 NM Min SVs      14          PDOP max  1.1
          Relative DOPs Yes        HDOP max  0.7
          Total GPS pos 6          VDOP max  0.8
          Monitor status Not monitored RMS       13.1
          Horz SD          Vert SD
          Start wk 1552 sec 481984.0 End wk 1552 sec 481989.0

GPSQC2 NM Ttl satellites 14          Err Scale 0.0099999998
          VCV xx 0.0000230254      VCV xy 0.0000219683
          VCV xz 0.0000014109      VCV yy 0.0000608337
          VCV yz -0.0000164538     VCV zz 0.0000277441

PT DGN SO Name          10108          To the Point

GRID D SO Delta N      0.026          Delta E      -0.028
          Delta Elv    -0.051

GPSVEC SO Point ID 84003      DX -6380.172      DY 1294.513
          Class Stake out      DZ -2027.405      Code 810107
          Obs L1 Fixed          H.pr 0.020      V.pr 0.026

GPSQC1 NM Min SVs      14          PDOP max  1.0
          Relative DOPs Yes        HDOP max  0.6
          Total GPS pos 6          VDOP max  0.8
          Monitor status Not monitored RMS       16.3
          Horz SD          Vert SD
          Start wk 1552 sec 482057.0 End wk 1552 sec 482062.0

GPSQC2 NM Ttl satellites 14          Err Scale 0.0099999998
          VCV xx 0.0000198152      VCV xy 0.0000173576
          VCV xz 0.0000016042      VCV yy 0.0000547783
          VCV yz -0.000016753      VCV zz 0.0000280579

PT DGN SO Name          10107          To the Point

GRID D SO Delta N      0.042          Delta E      -0.024
          Delta Elv    -0.004

GPSVEC SO Point ID 84004      DX -6339.570      DY 1279.939
          Class Stake out      DZ -2022.327      Code 810106
          Obs L1 Fixed          H.pr 0.019      V.pr 0.025

GPSQC1 NM Min SVs      14          PDOP max  1.0
          Relative DOPs Yes        HDOP max  0.6
          Total GPS pos 6          VDOP max  0.8
          Monitor status Not monitored RMS       18.3
          Horz SD          Vert SD
          Start wk 1552 sec 482104.0 End wk 1552 sec 482109.0

GPSQC2 NM Ttl satellites 14          Err Scale 0.0099999998
          VCV xx 0.0000154888      VCV xy 0.0000124
          VCV xz 0.0000020907      VCV yy 0.0000485659
          VCV yz -0.000016598      VCV zz 0.0000280797

PT DGN SO Name          10106          To the Point

GRID D SO Delta N      -0.018          Delta E      -0.024
          Delta Elv    -0.061

GPSVEC SO Point ID 84005      DX -6304.901      DY 1267.341
          Class Stake out      DZ -2018.297      Code 810105
          Obs L1 Fixed          H.pr 0.021      V.pr 0.026

GPSQC1 NM Min SVs      15          PDOP max  1.0
          Relative DOPs Yes        HDOP max  0.7
          Total GPS pos 5          VDOP max  0.8
          Monitor status Not monitored RMS       13.3
          Horz SD          Vert SD
          Start wk 1552 sec 482208.0 End wk 1552 sec 482214.0

GPSQC2 NM Ttl satellites 15          Err Scale 0.0099999998
          VCV xx 0.0000210763      VCV xy 0.000018974
          VCV xz 0.000002194      VCV yy 0.0000541313
          VCV yz -0.0000156271     VCV zz 0.0000281515

PT DGN SO Name          10105          To the Point

GRID D SO Delta N      0.351          Delta E      -0.075
          Delta Elv    -0.073
    
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GPSVEC SO Point ID 84006      DX -6275.116      DY 1256.535
        Class Stake out      DZ -2014.838      Code 810104
        Obs L1 Fixed         H.pr 0.022      V.pr 0.027

GPSQC1 NM Min SVs          14              PDOP max 1.1
        Relative DOPs Yes    HDOP max 0.7
        Total GPS pos 6      VDOP max 0.8
        Monitor status Not monitored RMS 19.9
        Horz SD              Vert SD
        Start wk 1552 sec 482462.0 End wk 1552 sec 482467.0

GPSQC2 NM Ttl satellites 14      Err Scale 0.0099999998
        VCV xx 0.0000236938 VCV xy 0.0000216454
        VCV xz 0.0000027093 VCV yy 0.0000575201
        VCV yz -0.0000158067 VCV zz 0.0000292153

PT DGN SO Name          10104      To the Point

GRID D SO Delta N        0.641      Delta E -0.236
        Delta Elv -0.071

NOTE TS Time Date 10/09/2009 Time 07:14:35

GPSVEC SO Point ID 84007      DX -6236.996      DY 1243.345
        Class Stake out      DZ -2009.678      Code 810103
        Obs L1 Fixed         H.pr 0.021      V.pr 0.027

GPSQC1 NM Min SVs          14              PDOP max 1.1
        Relative DOPs Yes    HDOP max 0.7
        Total GPS pos 5      VDOP max 0.8
        Monitor status Not monitored RMS 13.8
        Horz SD              Vert SD
        Start wk 1552 sec 483285.0 End wk 1552 sec 483290.0

GPSQC2 NM Ttl satellites 14      Err Scale 0.0099999998
        VCV xx 0.0000228562 VCV xy 0.0000194582
        VCV xz 0.0000033136 VCV yy 0.0000549479
        VCV yz -0.0000178822 VCV zz 0.0000315107

PT DGN SO Name          10103      To the Point

GRID D SO Delta N        0.113      Delta E 0.035
        Delta Elv -0.041

GPSVEC TP Point ID 84008      DX -6220.008      DY 1238.846
        Class Normal         DZ -2005.381      Code ic-toe
        Obs L1 Fixed         H.pr 0.021      V.pr 0.027

GPSQC1 NM Min SVs          10              PDOP max 1.1
        Relative DOPs Yes    HDOP max 0.7
        Total GPS pos 5      VDOP max 0.8
        Monitor status Not monitored RMS 16.6
        Horz SD              Vert SD
        Start wk 1552 sec 483318.0 End wk 1552 sec 483323.0

GPSQC2 NM Ttl satellites 14      Err Scale 0.0099999998
        VCV xx 0.0000227863 VCV xy 0.0000193636
        VCV xz 0.0000033178 VCV yy 0.00005452
        VCV yz -0.0000178405 VCV zz 0.000032124

GPSVEC TP Point ID 84009      DX -6200.587      DY 1236.855
        Class Normal         DZ -1997.502      Code ic-toe
        Obs L1 Fixed         H.pr 0.021      V.pr 0.027

GPSQC1 NM Min SVs          14              PDOP max 1.1
        Relative DOPs Yes    HDOP max 0.7
        Total GPS pos 6      VDOP max 0.8
        Monitor status Not monitored RMS 18.9
        Horz SD              Vert SD
        Start wk 1552 sec 483353.0 End wk 1552 sec 483358.0

GPSQC2 NM Ttl satellites 14      Err Scale 0.0099999998
        VCV xx 0.000022771 VCV xy 0.0000192994
        VCV xz 0.0000033092 VCV yy 0.000054323
        VCV yz -0.0000179508 VCV zz 0.000032705

GPSVEC SO Point ID 84010      DX -6187.628      DY 1237.726
        Class Stake out      DZ -1989.570      Code 810102
        Obs L1 Fixed         H.pr 0.021      V.pr 0.027

GPSQC1 NM Min SVs          13              PDOP max 1.1
        Relative DOPs Yes    HDOP max 0.7
        Total GPS pos 5      VDOP max 0.8
        Monitor status Not monitored RMS 11.4
        Horz SD              Vert SD
        Start wk 1552 sec 483580.0 End wk 1552 sec 483587.0

GPSQC2 NM Ttl satellites 13      Err Scale 0.0099999998
        VCV xx 0.0000231931 VCV xy 0.0000212035
        VCV xz 0.0000017839 VCV yy 0.0000555696
        VCV yz -0.00001764 VCV zz 0.0000322342

PT DGN SO Name          10102      To the Point

GRID D SO Delta N        -0.067      Delta E -0.008
        Delta Elv -0.082

GPSVEC TP Point ID 84011      DX -6179.882      DY 1240.961
        Class Normal         DZ -1981.159      Code ic-toe
        Obs L1 Fixed         H.pr 0.021      V.pr 0.027
    
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GPSQC1 NM Min SVs      13          PDOP max  1.1
          Relative DOPs Yes        HDOP max  0.7
          Total GPS pos  5          VDOP max  0.9
          Monitor status Not monitored RMS       18.2
          Horz SD
          Start wk 1552 sec 483616.0 End wk 1552 sec 483621.0

GPSQC2 NM Ttl satellites 13          Err Scale 0.0099999998
          VCV xx  0.0000236697      VCV xy   0.000022058
          VCV xz  0.0000015161      VCV yy   0.0000567742
          VCV yz  -0.0000178221     VCV zz   0.0000320503

GPSVEC SO Point ID 84012          DX  -6167.468      DY  1256.063
          Class Stake out          DZ  -1956.415      Code 810101
          Obs L1 Fixed              H.pr 0.021        V.pr 0.028

GPSQC1 NM Min SVs      13          PDOP max  1.1
          Relative DOPs Yes        HDOP max  0.7
          Total GPS pos  5          VDOP max  0.9
          Monitor status Not monitored RMS       10.6
          Horz SD
          Start wk 1552 sec 483679.0 End wk 1552 sec 483686.0

GPSQC2 NM Ttl satellites 13          Err Scale 0.0099999998
          VCV xx  0.0000238377      VCV xy   0.000022578
          VCV xz  0.0000011154      VCV yy   0.0000574972
          VCV yz  -0.0000179909     VCV zz   0.0000316718

PT DGN SO Name            10101          To the Point

GRID D SO Delta N          -0.024          Delta E          0.142
          Delta Elv        -0.066

GPSVEC SO Point ID 84013          DX  -6157.407      DY  1273.990
          Class Stake out          DZ  -1929.202      Code 810100
          Obs L1 Fixed              H.pr 0.021        V.pr 0.028

GPSQC1 NM Min SVs      9           PDOP max  1.1
          Relative DOPs Yes        HDOP max  0.7
          Total GPS pos  5          VDOP max  0.9
          Monitor status Not monitored RMS       26.4
          Horz SD
          Start wk 1552 sec 483724.0 End wk 1552 sec 483729.0

GPSQC2 NM Ttl satellites 13          Err Scale 0.0099999998
          VCV xx  0.0000235769      VCV xy   0.0000224018
          VCV xz  0.0000008588      VCV yy   0.0000570895
          VCV yz  -0.0000180282     VCV zz   0.0000312915

PT DGN SO Name            10100          To the Point

GRID D SO Delta N          -0.105          Delta E          -0.950
          Delta Elv        -0.070

GPSVEC SO Point ID 84014          DX  -6152.927      DY  1285.714
          Class Stake out          DZ  -1912.704      Code 810099
          Obs L1 Fixed              H.pr 0.021        V.pr 0.028

GPSQC1 NM Min SVs      13          PDOP max  1.1
          Relative DOPs Yes        HDOP max  0.7
          Total GPS pos  6          VDOP max  0.9
          Monitor status Not monitored RMS       16.0
          Horz SD
          Start wk 1552 sec 483767.0 End wk 1552 sec 483772.0

GPSQC2 NM Ttl satellites 13          Err Scale 0.0099999998
          VCV xx  0.0000233186      VCV xy   0.0000221839
          VCV xz  0.0000006381      VCV yy   0.0000567293
          VCV yz  -0.0000180749     VCV zz   0.0000310253

PT DGN SO Name            10099          To the Point

GRID D SO Delta N          -0.046          Delta E          0.002
          Delta Elv        -0.018

GPSVEC SO Point ID 84015          DX  -6162.805      DY  1313.082
          Class Stake out          DZ  -1885.050      Code 810098
          Obs L1 Fixed              H.pr 0.021        V.pr 0.027

GPSQC1 NM Min SVs      13          PDOP max  1.1
          Relative DOPs Yes        HDOP max  0.7
          Total GPS pos  5          VDOP max  0.9
          Monitor status Not monitored RMS       17.8
          Horz SD
          Start wk 1552 sec 483850.0 End wk 1552 sec 483857.0

GPSQC2 NM Ttl satellites 13          Err Scale 0.0099999998
          VCV xx  0.0000228501      VCV xy   0.0000217273
          VCV xz  0.0000002493      VCV yy   0.000056143
          VCV yz  -0.0000182159     VCV zz   0.0000307014

PT DGN SO Name            10098          To the Point

GRID D SO Delta N          -0.096          Delta E          -0.011
          Delta Elv        -0.105

GPSVEC SO Point ID 84016          DX  -6192.838      DY  1328.389
          Class Stake out          DZ  -1883.873      Code 810097
          Obs L1 Fixed              H.pr 0.020        V.pr 0.027
    
```

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GPSQC1 NM Min SVs      13          PDOP max  1.1
          Relative DOPs Yes        HDOP max  0.6
          Total GPS pos  6         VDOP max  0.8
          Monitor status Not monitored RMS       17.6
          Horz SD
          Start wk 1552 sec 483924.0 End wk 1552 sec 483929.0

GPSQC2 NM Ttl satellites 13          Err Scale 0.0099999998
          VCV xx  0.0000224438      VCV xy   0.0000212816
          VCV xz  -0.0000000873     VCV yy   0.0000552888
          VCV yz  -0.0000183967     VCV zz   0.0000304794

PT DGN SO Name          10097          To the Point

GRID D SO Delta N      0.030          Delta E    -0.014
          Delta Elv    -0.076

GPSVEC SO Point ID 84017          DX  -6221.075          DY  1342.999
          Class Stake out          DZ  -1882.627          Code 810096
          Obs L1 Fixed              H.pr 0.020          V.pr 0.027

GPSQC1 NM Min SVs      13          PDOP max  1.1
          Relative DOPs Yes        HDOP max  0.6
          Total GPS pos  6         VDOP max  0.8
          Monitor status Not monitored RMS       16.5
          Horz SD
          Start wk 1552 sec 483975.0 End wk 1552 sec 483980.0

GPSQC2 NM Ttl satellites 13          Err Scale 0.0099999998
          VCV xx  0.0000221006      VCV xy   0.0000209449
          VCV xz  -0.0000002994     VCV yy   0.0000550464
          VCV yz  -0.0000184048     VCV zz   0.0000302432

PT DGN SO Name          10096          To the Point

GRID D SO Delta N      -0.078          Delta E    0.024
          Delta Elv    0.030

GPSVEC SO Point ID 84018          DX  -6247.617          DY  1356.554
          Class Stake out          DZ  -1881.517          Code 810095
          Obs L1 Fixed              H.pr 0.020          V.pr 0.027

GPSQC1 NM Min SVs      13          PDOP max  1.1
          Relative DOPs Yes        HDOP max  0.6
          Total GPS pos  5         VDOP max  0.9
          Monitor status Not monitored RMS       20.3
          Horz SD
          Start wk 1552 sec 484009.0 End wk 1552 sec 484016.0

GPSQC2 NM Ttl satellites 13          Err Scale 0.0099999998
          VCV xx  0.0000217657      VCV xy   0.0000205895
          VCV xz  -0.0000004578     VCV yy   0.0000543622
          VCV yz  -0.0000183833     VCV zz   0.0000299541

PT DGN SO Name          10095          To the Point

GRID D SO Delta N      -0.036          Delta E    0.010
          Delta Elv    0.042

GPSVEC SO Point ID 84019          DX  -6285.408          DY  1376.010
          Class Stake out          DZ  -1879.671          Code 810094
          Obs L1 Fixed              H.pr 0.018          V.pr 0.024

GPSQC1 NM Min SVs      14          PDOP max  0.9
          Relative DOPs Yes        HDOP max  0.6
          Total GPS pos  6         VDOP max  0.7
          Monitor status Not monitored RMS       15.2
          Horz SD
          Start wk 1552 sec 484422.0 End wk 1552 sec 484427.0

GPSQC2 NM Ttl satellites 14          Err Scale 0.0099999998
          VCV xx  0.0000186561      VCV xy   0.0000159799
          VCV xz  -0.0000023494     VCV yy   0.0000392577
          VCV yz  -0.0000132966     VCV zz   0.0000236509

PT DGN SO Name          10094          To the Point

GRID D SO Delta N      -0.089          Delta E    0.019
          Delta Elv    0.045

GPSVEC SO Point ID 84020          DX  -6315.476          DY  1391.456
          Class Stake out          DZ  -1878.009          Code 810093
          Obs L1 Fixed              H.pr 0.018          V.pr 0.025

GPSQC1 NM Min SVs      13          PDOP max  1.0
          Relative DOPs Yes        HDOP max  0.6
          Total GPS pos  5         VDOP max  0.8
          Monitor status Not monitored RMS       12.5
          Horz SD
          Start wk 1552 sec 484490.0 End wk 1552 sec 484496.0

GPSQC2 NM Ttl satellites 13          Err Scale 0.0099999998
          VCV xx  0.0000188024      VCV xy   0.0000162687
          VCV xz  -0.0000020451     VCV yy   0.000042904
          VCV yz  -0.0000156221     VCV zz   0.0000263683

PT DGN SO Name          10093          To the Point

GRID D SO Delta N      -0.073          Delta E    0.049
          Delta Elv    -0.036
    
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GPSVEC SO Point ID 84021      DX  -6325.832      DY  1397.317
        Class Stake out    DZ  -1876.712      Code 810092
        Obs L1 Fixed       H.pr 0.018       V.pr 0.024

GPSQC1 NM Min SVs          14          PDOP max 0.9
        Relative DOPs Yes   HDOP max 0.6
        Total GPS pos 5     VDOP max 0.8
        Monitor status Not monitored RMS 17.2
        Horz SD            Vert SD
        Start wk 1552 sec 484640.0 End wk 1552 sec 484645.0

GPSQC2 NM Ttl satellites 14          Err Scale 0.0099999998
        VCV xx 0.0000182373 VCV xy 0.0000157035
        VCV xz -0.0000022611 VCV yy 0.0000389352
        VCV yz -0.0000146363 VCV zz 0.0000268063

PT DGN SO Name 10092          To the Point

GRID D SO Delta N -0.914      Delta E -0.167
        Delta Elv -0.095

GPSVEC SO Point ID 84022      DX  -6175.662      DY  1205.154
        Class Stake out    DZ  -2024.126      Code 10-9-09chk
        Obs L1 Fixed       H.pr 0.017       V.pr 0.023

GPSQC1 NM Min SVs          10          PDOP max 0.9
        Relative DOPs Yes   HDOP max 0.5
        Total GPS pos 5     VDOP max 0.7
        Monitor status Not monitored RMS 15.8
        Horz SD            Vert SD
        Start wk 1552 sec 484811.0 End wk 1552 sec 484816.0

GPSQC2 NM Ttl satellites 14          Err Scale 0.0099999998
        VCV xx 0.0000162008 VCV xy 0.0000139903
        VCV xz -0.0000032675 VCV yy 0.0000364646
        VCV yz -0.0000131553 VCV zz 0.000022579

PT DGN SO Name 106          To the Point

GRID D SO Delta N -0.037      Delta E -0.026
        Delta Elv -0.001

NOTE TS Time Date 10/09/2009 Time 08:10:51

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 10/09/2009 Time 10:38:05

SURVEY KI Elev mask 10          PDOP mask 6.0

SURVEY KI Elev mask 10          PDOP mask 6.0

SURVEY KI Elev mask 10          PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI Antenna ht 0.000      Measurement True

GPSPOS FD Point ID 44501      Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control    Hgt 1645.648      Code 1_30_09_BASE
        Obs User Input    H.pr <null>      V.pr <null>

EQUIP SI Receiver SPS851          Serial no <no text>
        Antenna Zephyr - Model 2
        Meas To Antenna Phase Center
        Tape adj 0.000      Serial no <no text>
        H.Offset 0.000      V.Offset 0.000

NOTE NM Receiver firmware version=0.000

GPSANT KI Antenna ht 4.245      Measurement True

GPSREF KI Reference 44501

INIT KI Init event Gained          Week 1552
        Init type On the fly      seconds 49512.0
        Init counter 1          Point ID <no text>
        Survey type Real Time    Plate H.Dist <null>
        Plate V.Dist <null>      Plate azimuth <null>

INIT KI Init event High RMS          Week 1552
        Init type On the fly      seconds 495996.0
        Init counter 1          Point ID <no text>
        Survey type Real Time    Plate H.Dist <null>
        Plate V.Dist <null>      Plate azimuth <null>

INIT KI Init event Good RMS          Week 1552
        Init type On the fly      seconds 495997.0
        Init counter 1          Point ID <no text>
        Survey type Real Time    Plate H.Dist <null>
        Plate V.Dist <null>      Plate azimuth <null>

NOTE TS Time Date 10/09/2009 Time 11:20:54

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 10/09/2009 Time 15:05:48

SURVEY KI Elev mask 10          PDOP mask 6.0

SURVEY KI Elev mask 10          PDOP mask 6.0

SURVEY KI Elev mask 10          PDOP mask 6.0
    
```

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SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1552
Init type On the fly seconds 511579.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
NOTE TS Time Date 10/09/2009 Time 16:10:22
SURVEY EVENTKISurvey event Survey ended
NOTE TS Time Date 10/10/2009 Time 06:37:32
NOTE TS Time Date 10/10/2009 Time 12:58:39
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1552
Init type On the fly seconds 590361.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
SURVEY EVENTKISurvey event Survey ended
NOTE TS Time Date 10/12/2009 Time 06:25:51
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1553
Init type On the fly seconds 134779.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>

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INIT   KI   Init event   High RMS           Week           1553
        Init type    On the fly        seconds        135539.0
        Init counter  1                 Point ID       <no text>
        Survey type   Real Time         Plate H.Dist   <null>
        Plate V.Dist  <null>           Plate azimuth  <null>

INIT   KI   Init event   Good RMS          Week           1553
        Init type    On the fly        seconds        135540.0
        Init counter  1                 Point ID       <no text>
        Survey type   Real Time         Plate H.Dist   <null>
        Plate V.Dist  <null>           Plate azimuth  <null>

NOTE   TS   Time Date 10/12/2009 Time 07:28:36

SURVEY EVENTKISurvey event Survey ended

NOTE   TS   Time Date 10/12/2009 Time 08:18:33

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT  KI   Antenna ht 0.000            Measuremt True

GPSPOS  FD   Point ID 44501           Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control          Hgt 1645.648           Code 1_30_09_BASE
        Obs User Input         H.pr <null>           V.pr <null>

EQUIP   SI   Receiver SPS851           Serial no <no text>
        Antenna Zephyr - Model 2
        Meas To Antenna Phase Center
        Tape adj 0.000           Serial no <no text>
        H.Offset 0.000           V.Offset 0.000

NOTE   NM   Receiver firmware version=0.000

GPSANT  KI   Antenna ht 4.245            Measuremt True

GPSREF  KI   Reference 44501

INIT   KI   Init event   Gained           Week           1553
        Init type    On the fly        seconds        141564.0
        Init counter  1                 Point ID       <no text>
        Survey type   Real Time         Plate H.Dist   <null>
        Plate V.Dist  <null>           Plate azimuth  <null>

SURVEY EVENTKISurvey event Survey ended

NOTE   TS   Time Date 10/13/2009 Time 06:31:28

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT  KI   Antenna ht 0.000            Measuremt True

GPSPOS  FD   Point ID 44501           Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control          Hgt 1645.648           Code 1_30_09_BASE
        Obs User Input         H.pr <null>           V.pr <null>

EQUIP   SI   Receiver SPS851           Serial no <no text>
        Antenna Zephyr - Model 2
        Meas To Antenna Phase Center
        Tape adj 0.000           Serial no <no text>
        H.Offset 0.000           V.Offset 0.000

NOTE   NM   Receiver firmware version=0.000

GPSANT  KI   Antenna ht 4.245            Measuremt True

GPSREF  KI   Reference 44501

INIT   KI   Init event   Gained           Week           1553
        Init type    On the fly        seconds        221521.0
        Init counter  1                 Point ID       <no text>
        Survey type   Real Time         Plate H.Dist   <null>
        Plate V.Dist  <null>           Plate azimuth  <null>

SURVEY EVENTKISurvey event Survey ended

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY KI   Elev mask 10                PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT  KI   Antenna ht 0.000            Measuremt True

GPSPOS  FD   Point ID 44501           Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control          Hgt 1645.648           Code 1_30_09_BASE
        Obs User Input         H.pr <null>           V.pr <null>
    
```

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EQUIP  SI  Receiver  SPS851          Serial no <no text>
        Antenna  Zephyr - Model 2
        Meas To  Antenna Phase Center
        Tape adj 0.000          Serial no <no text>
        H.Offset 0.000          V.Offset 0.000

NOTE    NM  Receiver firmware version=0.000

GPSANT  KI  Antenna ht 4.245          Measuremt True

GPSREF  KI  Reference 44501

INIT    KI  Init event  Gained          Week          1553
        Init type  On the fly       seconds       223266.0
        Init counter 1             Point ID      <no text>
        Survey type Real Time       Plate H.Dist <null>
        Plate V.Dist <null>         Plate azimuth <null>

NOTE    TS  Time Date 10/13/2009 Time 07:05:16

SURVEY  EVENTKISurvey event Survey ended

NOTE    TS  Time Date 10/13/2009 Time 09:01:12

SURVEY  KI  Elev mask 10          PDOP mask 6.0

SURVEY  KI  Elev mask 10          PDOP mask 6.0

SURVEY  KI  Elev mask 10          PDOP mask 6.0

SURVEY  EVENTKISurvey event Rover survey started

GPSANT  KI  Antenna ht 0.000          Measuremt True

GPSPOS  FD  Point ID 44501          Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control Hgt 1645.648          Code 1_30_09_BASE
        Obs User Input H.pr <null>          V.pr <null>

EQUIP  SI  Receiver  SPS851          Serial no <no text>
        Antenna  Zephyr - Model 2
        Meas To  Antenna Phase Center
        Tape adj 0.000          Serial no <no text>
        H.Offset 0.000          V.Offset 0.000

NOTE    NM  Receiver firmware version=0.000

GPSANT  KI  Antenna ht 4.245          Measuremt True

GPSREF  KI  Reference 44501

INIT    KI  Init event  Gained          Week          1553
        Init type  On the fly       seconds       230512.0
        Init counter 1             Point ID      <no text>
        Survey type Real Time       Plate H.Dist <null>
        Plate V.Dist <null>         Plate azimuth <null>

SURVEY  EVENTKISurvey event Survey ended

NOTE    TS  Time Date 10/13/2009 Time 16:13:25

SURVEY  KI  Elev mask 10          PDOP mask 6.0

SURVEY  KI  Elev mask 10          PDOP mask 6.0

SURVEY  KI  Elev mask 10          PDOP mask 6.0

SURVEY  EVENTKISurvey event Rover survey started

GPSANT  KI  Antenna ht 0.000          Measuremt True

GPSPOS  FD  Point ID 44501          Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control Hgt 1645.648          Code 1_30_09_BASE
        Obs User Input H.pr <null>          V.pr <null>

EQUIP  SI  Receiver  SPS851          Serial no <no text>
        Antenna  Zephyr - Model 2
        Meas To  Antenna Phase Center
        Tape adj 0.000          Serial no <no text>
        H.Offset 0.000          V.Offset 0.000

NOTE    NM  Receiver firmware version=0.000

GPSANT  KI  Antenna ht 4.245          Measuremt True

GPSREF  KI  Reference 44501

INIT    KI  Init event  Gained          Week          1553
        Init type  On the fly       seconds       256431.0
        Init counter 1             Point ID      <no text>
        Survey type Real Time       Plate H.Dist <null>
        Plate V.Dist <null>         Plate azimuth <null>

INIT    KI  Init event  High RMS       Week          1553
        Init type  On the fly       seconds       257928.0
        Init counter 1             Point ID      <no text>
        Survey type Real Time       Plate H.Dist <null>
        Plate V.Dist <null>         Plate azimuth <null>

INIT    KI  Init event  Good RMS       Week          1553
        Init type  On the fly       seconds       257929.0
        Init counter 1             Point ID      <no text>
        Survey type Real Time       Plate H.Dist <null>
        Plate V.Dist <null>         Plate azimuth <null>
    
```

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NOTE    TS Time Date 10/13/2009 Time 16:43:52
SURVEY  EVENTKISurvey event Communications error
NOTE    NM New base station detected
SURVEY  EVENTKISurvey event Survey ended
SURVEY  KI Elev mask 10                      PDOP mask 6.0
SURVEY  KI Elev mask 10                      PDOP mask 6.0
SURVEY  KI Elev mask 10                      PDOP mask 6.0
SURVEY  EVENTKISurvey event Rover survey started
GPSANT  KI Antenna ht 0.000                  Measurement True
GPSPOS  FD Point ID 44501                    Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control                        Hgt 1645.648          Code 1_30_09_BASE
        Obs User Input                        H.pr <null>          V.pr <null>
EQUIP   SI Receiver SPS851                    Serial no <no text>
        Antenna Zephyr - Model 2
        Meas To Antenna Phase Center
        Tape adj 0.000                        Serial no <no text>
        H.Offset 0.000                        V.Offset 0.000
NOTE    NM Receiver firmware version=0.000
GPSANT  KI Antenna ht 4.245                  Measurement True
GPSREF  KI Reference 44501
INIT    KI Init event Gained                    Week 1553
        Init type On the fly                    seconds 258479.0
        Init counter 1                          Point ID <no text>
        Survey type Real Time                    Plate H.Dist <null>
        Plate V.Dist <null>                      Plate azimuth <null>
EQUIP   NM Receiver SPS881                    Serial no 4813149404
        Antenna R8 Model 2/SPS88x Internal
        Meas To Bottom of antenna mount
        Tape adj 0.000                        Serial no <no text>
        H.Offset 0.000                        V.Offset 0.213
NOTE    NM Receiver firmware version=3.710
GPSANT  KI Antenna ht 6.562                  Measurement Uncorrected
GPSVEC  SO Point ID 84023                    DX -6437.788          DY 1379.075
        Class Stake out                        DZ -1913.117          Code 810042
        Obs L1 Fixed                            H.pr 0.016           V.pr 0.037
GPSQC1  NM Min SVs 7                          PDOP max 1.6
        Relative DOPs Yes                       HDOP max 0.9
        Total GPS pos 186                       VDOP max 1.5
        Monitor status Not monitored             RMS 16.9
        Horz SD                                  Vert SD
        Start wk 1553 sec 258562.0              End wk 1553 sec 258763.0
GPSQC2  NM Ttl satellites 11                  Err Scale 0.0099999998
        VCV xx 0.0000152304                     VCV xy 0.0000210467
        VCV xz -0.0000216053                    VCV yy 0.0000560348
        VCV yz -0.0000582062                    VCV zz 0.0000827634
PT DGN  SO Name 10042                          To the Point
GRID D  SO Delta N -0.046                      Delta E 0.024
        Delta Elv -0.042
GPSVEC  SO Point ID 84024                    DX -6351.162          DY 1414.912
        Class Stake out                        DZ -1869.722          Code 810091
        Obs L1 Fixed                            H.pr 0.019           V.pr 0.042
GPSQC1  NM Min SVs 12                          PDOP max 1.4
        Relative DOPs Yes                       HDOP max 0.6
        Total GPS pos 16                       VDOP max 1.3
        Monitor status Not monitored             RMS 15.5
        Horz SD                                  Vert SD
        Start wk 1553 sec 259450.0              End wk 1553 sec 259465.0
GPSQC2  NM Ttl satellites 12                  Err Scale 0.0099999998
        VCV xx 0.0000267662                     VCV xy 0.0000331665
        VCV xz -0.0000326166                    VCV yy 0.0000726488
        VCV yz -0.0000653427                    VCV zz 0.0000930426
PT DGN  SO Name 10091                          To the Point
GRID D  SO Delta N 0.113                      Delta E 0.013
        Delta Elv -0.111
GPSVEC  SO Point ID 84025                    DX -6466.895          DY 1490.386
        Class Stake out                        DZ -1844.367          Code 810088
        Obs L1 Fixed                            H.pr 0.018           V.pr 0.041
GPSQC1  NM Min SVs 12                          PDOP max 1.4
        Relative DOPs Yes                       HDOP max 0.6
        Total GPS pos 16                       VDOP max 1.3
        Monitor status Not monitored             RMS 18.2
        Horz SD                                  Vert SD
        Start wk 1553 sec 259575.0              End wk 1553 sec 259590.0

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GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998
          VCV xx 0.0000264404 VCV xy 0.000032528
          VCV xz -0.0000316859 VCV yy 0.0000716017
          VCV yz -0.0000627949 VCV zz 0.0000887894

PT DGN SO Name 10088 To the Point

GRID D SO Delta N 0.047 Delta E 0.066
        Delta Elv 0.091

GPSVEC SO Point ID 84026 DX -6591.610 DY 1556.823
        Class Stake out DZ -1835.079 Code 810085
        Obs L1 Fixed H.pr 0.018 V.pr 0.039

GPSQC1 NM Min SVs 7 PDOP max 1.4
          Relative DOPs Yes HDOP max 0.6
          Total GPS pos 15 VDOP max 1.2
          Monitor status Not monitored RMS 11.2
          Horz SD Vert SD
          Start wk 1553 sec 259920.0 End wk 1553 sec 259935.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998
          VCV xx 0.0000260145 VCV xy 0.0000308232
          VCV xz -0.0000288835 VCV yy 0.0000684586
          VCV yz -0.0000547219 VCV zz 0.0000764348

PT DGN SO Name 10085 To the Point

GRID D SO Delta N 0.049 Delta E -0.066
        Delta Elv 0.109

NOTE TS Time Date 10/13/2009 Time 17:13:55

GPSVEC SO Point ID 84027 DX -6548.402 DY 1533.869
        Class Stake out DZ -1838.101 Code 810086
        Obs L1 Fixed H.pr 0.018 V.pr 0.038

GPSQC1 NM Min SVs 7 PDOP max 1.3
          Relative DOPs Yes HDOP max 0.6
          Total GPS pos 15 VDOP max 1.2
          Monitor status Not monitored RMS 24.6
          Horz SD Vert SD
          Start wk 1553 sec 260029.0 End wk 1553 sec 260045.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998
          VCV xx 0.0000251861 VCV xy 0.0000295099
          VCV xz -0.0000273168 VCV yy 0.0000656484
          VCV yz -0.0000509189 VCV zz 0.0000708616

PT DGN SO Name 10086 To the Point

GRID D SO Delta N -0.140 Delta E -0.045
        Delta Elv 0.033

GPSVEC SO Point ID 84028 DX -6503.953 DY 1510.122
        Class Stake out DZ -1841.647 Code 810087
        Obs L1 Fixed H.pr 0.017 V.pr 0.035

GPSQC1 NM Min SVs 12 PDOP max 1.2
          Relative DOPs Yes HDOP max 0.6
          Total GPS pos 15 VDOP max 1.1
          Monitor status Not monitored RMS 15.4
          Horz SD Vert SD
          Start wk 1553 sec 260160.0 End wk 1553 sec 260177.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998
          VCV xx 0.0000242213 VCV xy 0.0000270693
          VCV xz -0.0000245114 VCV yy 0.0000583493
          VCV yz -0.0000421721 VCV zz 0.0000602721

PT DGN SO Name 10087 To the Point

GRID D SO Delta N 0.085 Delta E -0.006
        Delta Elv 0.112

GPSVEC SO Point ID 84029 DX -6420.405 DY 1465.380
        Class Stake out DZ -1848.078 Code 810089
        Obs L1 Fixed H.pr 0.017 V.pr 0.035

GPSQC1 NM Min SVs 7 PDOP max 1.2
          Relative DOPs Yes HDOP max 0.5
          Total GPS pos 15 VDOP max 1.1
          Monitor status Not monitored RMS 13.9
          Horz SD Vert SD
          Start wk 1553 sec 260305.0 End wk 1553 sec 260320.0

GPSQC2 NM Ttl satellites 7 Err Scale 0.0099999998
          VCV xx 0.000023951 VCV xy 0.0000266059
          VCV xz -0.000023743 VCV yy 0.0000577696
          VCV yz -0.0000402451 VCV zz 0.0000569003

PT DGN SO Name 10089 To the Point

GRID D SO Delta N 0.115 Delta E -0.063
        Delta Elv 0.078

GPSVEC SO Point ID 84030 DX -6380.927 DY 1436.676
        Class Stake out DZ -1860.428 Code 810090
        Obs L1 Fixed H.pr 0.017 V.pr 0.035
    
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GPSQC1 NM Min SVs 7 PDOP max 1.2  
 Relative DOPs Yes HDOP max 0.5  
 Total GPS pos 15 VDOP max 1.1  
 Monitor status Not monitored RMS 13.9  
 Horz SD Vert SD  
 Start wk 1553 sec 260365.0 End wk 1553 sec 260380.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998  
 VCV xx 0.0000234024 VCV xy 0.0000263195  
 VCV xz -0.0000233416 VCV yy 0.0000583587  
 VCV yz -0.0000405748 VCV zz 0.0000561945

PT DGN SO Name 10090 To the Point

GRID D SO Delta N 0.076 Delta E 0.040  
 Delta Elv 0.029

GPSVEC SO Point ID 84031 DX -6890.539 DY 1483.465  
 Class Stake out DZ -2089.753 Code 810118  
 Obs L1 Fixed H.pr 0.017 V.pr 0.035

GPSQC1 NM Min SVs 7 PDOP max 1.2  
 Relative DOPs Yes HDOP max 0.6  
 Total GPS pos 15 VDOP max 1.1  
 Monitor status Not monitored RMS 15.8  
 Horz SD Vert SD  
 Start wk 1553 sec 260709.0 End wk 1553 sec 260730.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998  
 VCV xx 0.0000246752 VCV xy 0.0000274889  
 VCV xz -0.0000232048 VCV yy 0.0000625423  
 VCV yz -0.0000395917 VCV zz 0.0000531769

PT DGN SO Name 10118 To the Point

GRID D SO Delta N 0.419 Delta E 0.061  
 Delta Elv -0.165

GPSVEC SO Point ID 84032 DX -6850.598 DY 1468.748  
 Class Stake out DZ -2084.862 Code 810117  
 Obs L1 Fixed H.pr 0.018 V.pr 0.035

GPSQC1 NM Min SVs 7 PDOP max 1.3  
 Relative DOPs Yes HDOP max 0.6  
 Total GPS pos 15 VDOP max 1.1  
 Monitor status Not monitored RMS 9.2  
 Horz SD Vert SD  
 Start wk 1553 sec 260827.0 End wk 1553 sec 260842.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998  
 VCV xx 0.0000249788 VCV xy 0.0000277776  
 VCV xz -0.0000231609 VCV yy 0.0000640388  
 VCV yz -0.0000393763 VCV zz 0.0000521637

PT DGN SO Name 10117 To the Point

GRID D SO Delta N 0.267 Delta E -0.092  
 Delta Elv -0.001

GPSVEC SO Point ID 84033 DX -6803.928 DY 1451.489  
 Class Stake out DZ -2078.934 Code 810116  
 Obs L1 Fixed H.pr 0.017 V.pr 0.034

GPSQC1 NM Min SVs 7 PDOP max 1.2  
 Relative DOPs Yes HDOP max 0.6  
 Total GPS pos 15 VDOP max 1.1  
 Monitor status Not monitored RMS 11.7  
 Horz SD Vert SD  
 Start wk 1553 sec 260940.0 End wk 1553 sec 260962.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998  
 VCV xx 0.000024139 VCV xy 0.0000267938  
 VCV xz -0.0000219799 VCV yy 0.0000611858  
 VCV yz -0.0000366372 VCV zz 0.0000484248

PT DGN SO Name 10116 To the Point

GRID D SO Delta N -0.012 Delta E -0.030  
 Delta Elv 0.023

GPSVEC SO Point ID 84034 DX -6768.576 DY 1438.244  
 Class Stake out DZ -2074.766 Code 810115  
 Obs L1 Fixed H.pr 0.017 V.pr 0.034

GPSQC1 NM Min SVs 12 PDOP max 1.2  
 Relative DOPs Yes HDOP max 0.5  
 Total GPS pos 15 VDOP max 1.1  
 Monitor status Not monitored RMS 15.6  
 Horz SD Vert SD  
 Start wk 1553 sec 261092.0 End wk 1553 sec 261108.0

GPSQC2 NM Ttl satellites 12 Err Scale 0.0099999998  
 VCV xx 0.0000243174 VCV xy 0.000026852  
 VCV xz -0.0000215589 VCV yy 0.0000620274  
 VCV yz -0.0000354386 VCV zz 0.0000462013

PT DGN SO Name 10115 To the Point

GRID D SO Delta N 0.144 Delta E 0.047  
 Delta Elv 0.104

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GPSVEC SO Point ID 84035      DX  -6732.923      DY  1424.786
        Class Stake out      DZ  -2070.532      Code 810114
        Obs L1 Fixed         H.pr 0.017       V.pr 0.033

GPSQC1 NM Min SVs          7                PDOP max 1.2
        Relative DOPs Yes    HDOP max 0.6
        Total GPS pos 15     VDOP max 1.1
        Monitor status Not monitored RMS 12.8
        Horz SD              Vert SD
        Start wk 1553 sec 261428.0 End wk 1553 sec 261459.0

GPSQC2 NM Ttl satellites 12      Err Scale 0.0099999998
        VCV xx 0.000023361    VCV xy 0.0000258674
        VCV xz -0.0000199157 VCV yy 0.000062701
        VCV yz -0.0000328922 VCV zz 0.0000409581

PT DGN SO Name          10114      To the Point

GRID D SO Delta N        0.319      Delta E 0.004
        Delta Elv        0.093

GPSVEC SO Point ID 84036      DX  -6685.093     DY  1407.184
        Class Stake out      DZ  -2064.505     Code 810113
        Obs L1 Fixed         H.pr 0.017       V.pr 0.032

GPSQC1 NM Min SVs          12               PDOP max 1.2
        Relative DOPs Yes    HDOP max 0.6
        Total GPS pos 15     VDOP max 1.1
        Monitor status Not monitored RMS 12.8
        Horz SD              Vert SD
        Start wk 1553 sec 261548.0 End wk 1553 sec 261583.0

GPSQC2 NM Ttl satellites 12      Err Scale 0.0099999998
        VCV xx 0.0000223627    VCV xy 0.000024769
        VCV xz -0.0000187148 VCV yy 0.0000602691
        VCV yz -0.0000306683 VCV zz 0.000037833

PT DGN SO Name          10113      To the Point

GRID D SO Delta N        0.012      Delta E 0.000
        Delta Elv        0.209

GPSVEC SO Point ID 84037      DX  -6640.346     DY  1390.278
        Class Stake out      DZ  -2058.895     Code 810112
        Obs L1 Fixed         H.pr 0.017       V.pr 0.032

GPSQC1 NM Min SVs          7                PDOP max 1.2
        Relative DOPs Yes    HDOP max 0.5
        Total GPS pos 15     VDOP max 1.1
        Monitor status Not monitored RMS 10.5
        Horz SD              Vert SD
        Start wk 1553 sec 261657.0 End wk 1553 sec 261685.0

GPSQC2 NM Ttl satellites 7        Err Scale 0.0099999998
        VCV xx 0.0000225139    VCV xy 0.0000250765
        VCV xz -0.0000187538 VCV yy 0.0000619961
        VCV yz -0.0000308425 VCV zz 0.0000373181

PT DGN SO Name          10112      To the Point

GRID D SO Delta N        -0.001     Delta E -0.067
        Delta Elv        0.012

GPSVEC SO Point ID 84038      DX  -6581.290     DY  1367.988
        Class Stake out      DZ  -2051.867     Code 810111
        Obs L1 Fixed         H.pr 0.017       V.pr 0.032

GPSQC1 NM Min SVs          12               PDOP max 1.2
        Relative DOPs Yes    HDOP max 0.5
        Total GPS pos 15     VDOP max 1.0
        Monitor status Not monitored RMS 7.8
        Horz SD              Vert SD
        Start wk 1553 sec 261783.0 End wk 1553 sec 261808.0

GPSQC2 NM Ttl satellites 12      Err Scale 0.0099999998
        VCV xx 0.0000225957    VCV xy 0.0000252043
        VCV xz -0.0000184826 VCV yy 0.0000628525
        VCV yz -0.0000302908 VCV zz 0.0000362014

PT DGN SO Name          10111      To the Point

GRID D SO Delta N        0.298      Delta E 0.026
        Delta Elv        -0.011

NOTE TS Time Date 10/13/2009 Time 17:45:50

GPSVEC SO Point ID 84039      DX  -6529.731     DY  1348.713
        Class Stake out      DZ  -2045.602     Code 810110
        Obs L1 Fixed         H.pr 0.017       V.pr 0.031

GPSQC1 NM Min SVs          7                PDOP max 1.1
        Relative DOPs Yes    HDOP max 0.5
        Total GPS pos 15     VDOP max 1.0
        Monitor status Not monitored RMS 8.0
        Horz SD              Vert SD
        Start wk 1553 sec 261935.0 End wk 1553 sec 261962.0

GPSQC2 NM Ttl satellites 7        Err Scale 0.0099999998
        VCV xx 0.0000212335    VCV xy 0.0000234831
        VCV xz -0.0000172561 VCV yy 0.0000609884
        VCV yz -0.0000283373 VCV zz 0.0000343553
    
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PT DGN SO Name 10110 To the Point
GRID D SO Delta N 0.369 Delta E -0.041
Delta Elv -0.070
GPSVEC SO Point ID 84040 DX -6175.673 DY 1205.118
Class Stake out DZ -2024.083 Code cp106-10-13-09po
Obs L1 Fixed H.pr 0.017 V.pr 0.030
F-CODE SO Code cp106-10-13-09postchk
GPSQC1 NM Min SVs 8 PDOP max 1.1
Relative DOPs Yes HDOP max 0.5
Total GPS pos 15 VDOP max 1.0
Monitor status Not monitored RMS 20.5
Horz SD Vert SD
Start wk 1553 sec 262171.0 End wk 1553 sec 262191.0
GPSQC2 NM Ttl satellites 13 Err Scale 0.0099999998
VCV xx 0.00001999 VCV xy 0.0000225876
VCV xz -0.0000146293 VCV yy 0.0000611805
VCV yz -0.0000253076 VCV zz 0.0000284478
PT DGN SO Name 106 To the Point
GRID D SO Delta N -0.050 Delta E -0.032
Delta Elv -0.056
SURVEY EVENTKISurvey event Survey ended
NOTE TS Time Date 10/14/2009 Time 17:26:32
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1553
Init type On the fly seconds 347217.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
SURVEY EVENTKISurvey event Survey ended
NOTE TS Time Date 10/14/2009 Time 18:47:12
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1553
Init type On the fly seconds 352059.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
SURVEY EVENTKISurvey event Survey ended
NOTE TS Time Date 10/19/2009 Time 10:56:09

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SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measurement True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
Class Control Hgt 1645.648 Code 1_30_09_BASE
Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
Antenna Zephyr - Model 2
Meas To Antenna Phase Center
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measurement True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1554
Init type On the fly seconds 150999.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>
EQUIP NM Receiver SPS881 Serial no 4813149404
Antenna R8 Model 2/SPS88x Internal
Meas To Bottom of antenna mount
Tape adj 0.000 Serial no <no text>
H.Offset 0.000 V.Offset 0.213
NOTE NM Receiver firmware version=3.710
GPSANT KI Antenna ht 6.562 Measurement Uncorrected
GPSVEC SO Point ID 84041 DX -6718.033 DY 1486.072
Class Stake out DZ -1914.458 Code 10-19-09chk
Obs L1 Fixed H.pr 0.022 V.pr 0.030
GPSQC1 NM Min SVs 10 PDOP max 1.2
Relative DOPs Yes HDOP max 0.7
Total GPS pos 6 VDOP max 0.9
Monitor status Not monitored RMS 24.6
Horz SD Vert SD
Start wk 1554 sec 151581.0 End wk 1554 sec 151586.0
GPSQC2 NM Ttl satellites 10 Err Scale 0.0099999998
VCV xx 0.0000218823 VCV xy 0.0000113329
VCV xz -0.0000212949 VCV yy 0.0000402851
VCV yz -0.0000260897 VCV zz 0.0000682162
PT DGN SO Name cp-482 To the Point
GRID D SO Delta N 0.064 Delta E -0.081
Delta Elv 0.073
GPSVEC SO Point ID 84042 DX -6609.229 DY 1571.140
Class Stake out DZ -1827.337 Code 710084
Obs L1 Fixed H.pr 0.027 V.pr 0.038
GPSQC1 NM Min SVs 9 PDOP max 1.5
Relative DOPs Yes HDOP max 0.9
Total GPS pos 6 VDOP max 1.2
Monitor status Not monitored RMS 12.9
Horz SD Vert SD
Start wk 1554 sec 151790.0 End wk 1554 sec 151795.0
GPSQC2 NM Ttl satellites 9 Err Scale 0.0099999998
VCV xx 0.0000303986 VCV xy 0.0000191912
VCV xz -0.0000408496 VCV yy 0.000046771
VCV yz -0.0000443604 VCV zz 0.000126208
PT DGN SO Name 10084 To the Point
GRID D SO Delta N -0.007 Delta E -0.043
Delta Elv -0.060
GPSVEC SO Point ID 84043 DX -6632.975 DY 1604.472
Class Stake out DZ -1800.040 Code 710082
Obs L1 Fixed H.pr 0.021 V.pr 0.028
GPSQC1 NM Min SVs 10 PDOP max 1.1
Relative DOPs Yes HDOP max 0.7
Total GPS pos 6 VDOP max 0.9
Monitor status Not monitored RMS 19.7
Horz SD Vert SD
Start wk 1554 sec 151853.0 End wk 1554 sec 151858.0
GPSQC2 NM Ttl satellites 10 Err Scale 0.0099999998
VCV xx 0.0000231607 VCV xy 0.0000124136
VCV xz -0.0000169597 VCV yy 0.0000402654
VCV yz -0.0000218691 VCV zz 0.0000520676
PT DGN SO Name 10082 To the Point

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GRID D SO Delta N      0.038          Delta E      -0.004
        Delta Elv    -0.007
SURVEY EVENTKISurvey event Survey ended
NOTE   TS Time Date 10/19/2009 Time 11:31:19
SURVEY KI Elev mask 10                PDOP mask 6.0
SURVEY KI Elev mask 10                PDOP mask 6.0
SURVEY KI Elev mask 10                PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000            Measuremt True
GPSPOS FD Point ID 44501              Lat 36°03'10.29917"N Lng 114°59'31.59480"W
        Class Control Hgt 1645.648      Code 1_30_09_BASE
        Obs User Input H.pr <null>      V.pr <null>
EQUIP  SI Receiver SPS851              Serial no <no text>
        Antenna Zephyr - Model 2
        Meas To Antenna Phase Center
        Tape adj 0.000                  Serial no <no text>
        H.Offset 0.000                  V.Offset 0.000
NOTE   NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245            Measuremt True
GPSREF KI Reference 44501
INIT   KI Init event Gained              Week 1554
        Init type On the fly            seconds 153105.0
        Init counter 1                  Point ID <no text>
        Survey type Real Time           Plate H.Dist <null>
        Plate V.Dist <null>            Plate azimuth <null>
EQUIP  NM Receiver SPS881              Serial no 4813149404
        Antenna R8 Model 2/SPS88x Internal
        Meas To Bottom of antenna mount
        Tape adj 0.000                  Serial no <no text>
        H.Offset 0.000                  V.Offset 0.213
NOTE   NM Receiver firmware version=3.710
GPSANT KI Antenna ht 6.562            Measuremt Uncorrected
GPSVEC SO Point ID 84044              DX -6718.058          DY 1486.046
        Class Stake out DZ -1914.383      Code 10-19-09chk
        Obs L1 Fixed H.pr 0.021          V.pr 0.027
GPSQC1 NM Min SVs 11                  PDOP max 1.1
        Relative DOPs Yes              HDOP max 0.7
        Total GPS pos 6                VDOP max 0.8
        Monitor status Not monitored    RMS 10.0
        Horz SD Vert SD
        Start wk 1554 sec 153119.0      End wk 1554 sec 153124.0
GPSQC2 NM Ttl satellites 11            Err Scale 0.0099999998
        VCV xx 0.0000271049            VCV xy 0.0000167004
        VCV xz -0.0000114431           VCV yy 0.0000407886
        VCV yz -0.0000175195           VCV zz 0.000040191
PT DGN SO Name cp-482                  To the Point
GRID D SO Delta N      0.024          Delta E      -0.069
        Delta Elv    0.001
GPSVEC SO Point ID 84045              DX -6611.363          DY 1572.901
        Class Stake out DZ -1826.481      Code 710083
        Obs L1 Fixed H.pr 0.020          V.pr 0.026
GPSQC1 NM Min SVs 11                  PDOP max 1.0
        Relative DOPs Yes              HDOP max 0.6
        Total GPS pos 5                VDOP max 0.8
        Monitor status Not monitored    RMS 15.4
        Horz SD Vert SD
        Start wk 1554 sec 153243.0      End wk 1554 sec 153249.0
GPSQC2 NM Ttl satellites 11            Err Scale 0.0099999998
        VCV xx 0.0000239295            VCV xy 0.0000142709
        VCV xz -0.0000102342           VCV yy 0.0000361701
        VCV yz -0.0000162867           VCV zz 0.0000372535
PT DGN SO Name 10083                  To the Point
GRID D SO Delta N      0.019          Delta E      0.013
        Delta Elv    0.017
INIT   KI Init event High RMS           Week 1554
        Init type On the fly            seconds 153318.0
        Init counter 1                  Point ID <no text>
        Survey type Real Time           Plate H.Dist <null>
        Plate V.Dist <null>            Plate azimuth <null>
INIT   KI Init event Good RMS           Week 1554
        Init type On the fly            seconds 153319.0
        Init counter 1                  Point ID <no text>
        Survey type Real Time           Plate H.Dist <null>
        Plate V.Dist <null>            Plate azimuth <null>

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GPSVEC SO Point ID 84046      DX -6654.412      DY 1635.905
        Class Stake out      DZ -1773.686      Code 710081
        Obs L1 Fixed          H.pr 0.019       V.pr 0.025

GPSQC1 NM Min SVs          11                PDOP max 1.0
        Relative DOPs Yes      HDOP max 0.6
        Total GPS pos 6        VDOP max 0.8
        Monitor status Not monitored RMS 17.3
        Horz SD                Vert SD
        Start wk 1554 sec 153361.0 End wk 1554 sec 153366.0

GPSQC2 NM Ttl satellites 11      Err Scale 0.0099999998
        VCV xx 0.0000261224    VCV xy 0.0000164527
        VCV xz -0.0000093698   VCV yy 0.0000368687
        VCV yz -0.0000161059   VCV zz 0.0000305561

PT DGN SO Name              10081            To the Point

GRID D SO Delta N           -0.006            Delta E -0.004
        Delta Elv           0.008

GPSVEC SO Point ID 84047      DX -6671.336      DY 1661.165
        Class Stake out      DZ -1752.206      Code 710080
        Obs L1 Fixed          H.pr 0.020       V.pr 0.026

GPSQC1 NM Min SVs          7                PDOP max 1.0
        Relative DOPs Yes      HDOP max 0.6
        Total GPS pos 5        VDOP max 0.8
        Monitor status Not monitored RMS 20.1
        Horz SD                Vert SD
        Start wk 1554 sec 153438.0 End wk 1554 sec 153446.0

GPSQC2 NM Ttl satellites 11      Err Scale 0.0099999998
        VCV xx 0.0000268366    VCV xy 0.000017053
        VCV xz -0.0000101771   VCV yy 0.0000368342
        VCV yz -0.0000162804   VCV zz 0.0000331693

PT DGN SO Name              10080            To the Point

GRID D SO Delta N           -0.041            Delta E -0.063
        Delta Elv           -0.060

SURVEY EVENTKISurvey event Survey ended
    
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