

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 No
 Name

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 0.000000000

PLANE CB Orig Nrth 18728.937 Orig East 15068.999
 Trans N -24.769 Trans E -1.419
 Rotation -0°20'39.273751" Scale 1.000000000

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

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 0.00999999998
 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                      Measuremt 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                      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      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                      Measuremt 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 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 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 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 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 Measuremt 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 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 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 Measuremt 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 Elv	-0.014		
NOTE	TS	Time Date	01/30/2009	Time	18:06:59
SURVEY	EVENTKIS	Survey 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	EVENTKIS	Survey 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	EVENTKIS	Survey 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	EVENTKIS	Survey 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	EVENTKIS	Survey 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                  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       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                  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       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                  Measuremt 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

GPSVEC 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

GPSVEC 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

GPSVEC 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	
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 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 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 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 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 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 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                  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    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                  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    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                  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

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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                  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        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                  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        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                  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 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	EVENTKI	Survey 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	EVENTKI	Survey 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	EVENTKI	Survey 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	EVENTKI	Survey 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	EVENTKI	Survey 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

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

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		

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

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		Vert 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		DY	1256.063
		Class Stake out		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		Vert 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		DY	1273.990
		Class Stake out		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		Vert 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		DY	1285.714
		Class Stake out		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		Vert 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		DY	1313.082
		Class Stake out		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		Vert 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		DY	1328.389
		Class Stake out		Code	810097
		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	17.6
		Horz SD		Vert 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	0.000055288
		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		Vert 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		Vert 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		Vert 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		Vert 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		

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
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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
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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
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SURVEY	EVENTKISurvey event Survey ended
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NOTE	TS	Time Date 10/09/2009 Time 10:38:05
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SURVEY	KI	Elev mask 10	PDOP mask 6.0
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SURVEY	KI	Elev mask 10	PDOP mask 6.0
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SURVEY	KI	Elev mask 10	PDOP mask 6.0
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SURVEY	EVENTKISurvey event Rover survey started
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GPSANT	KI	Antenna ht 0.000	Measuremt True
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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
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GPSANT	KI	Antenna ht 4.245	Measuremt True
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GPSREF	KI	Reference 44501
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INIT	KI	Init event	Gained	Week	1552
		Init type	On the fly	seconds	495512.0
		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
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SURVEY	EVENTKISurvey event Survey ended
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NOTE	TS	Time Date 10/09/2009 Time 15:05:48
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SURVEY	KI	Elev mask 10	PDOP mask 6.0
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SURVEY	KI	Elev mask 10	PDOP mask 6.0
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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 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 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 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 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 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 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	EVENTKI	Survey 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	EVENTKI	Survey 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	EVENTKI	Survey 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	EVENTKI	Survey 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>

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

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
		Class Stake out	DZ -1835.079
		Obs L1 Fixed	H.pr 0.018
			DY 1556.823
			Code 810085
			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
		Class Stake out	DZ -1838.101
		Obs L1 Fixed	H.pr 0.018
			DY 1533.869
			Code 810086
			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
		Class Stake out	DZ -1841.647
		Obs L1 Fixed	H.pr 0.017
			DY 1510.122
			Code 810087
			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
		Class Stake out	DZ -1848.078
		Obs L1 Fixed	H.pr 0.017
			DY 1465.380
			Code 810089
			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
		Class Stake out	DZ -1860.428
		Obs L1 Fixed	H.pr 0.017
			DY 1436.676
			Code 810090
			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 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		

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 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 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 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 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	EVENT	KISurvey 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 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		Measuremt 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

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>

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						