

SC V10-70 Copyright © Trimble Navigation Ltd, 1996-2003
 Serial no 4043 08-Oct-09 09:05
 Angle Degrees Dist US Feet Press inch Hg
 Temp Fahrenheit Coord N-E-Elv H.obs Right

JOB Job ID FINAL-WASTE-ASB
 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 Used No
 ID 00000 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 0.0099999998
 VCV xx 0.0000153086 VCV xy 0.0000115193
 VCV xz -0.0000102203 VCV yy 0.0000515362
 VCV yz -0.0000091307 VCV zz 0.0000281475
 PT DGN SO Name 106 To the Point
 GRID D SO Delta N -0.014 Delta E -0.046
 Delta Elv -0.043
 SURVEY EVENTKISurvey event Survey ended
 NOTE TS Time Date 01/30/2009 Time 17:01:35
 SURVEY KI Elev mask 10 PDOP mask 6.0
 SURVEY KI Elev mask 10 PDOP mask 6.0
 SURVEY KI Elev mask 10 PDOP mask 6.0
 SURVEY EVENTKISurvey event Rover survey started
 GPSANT KI Antenna ht 0.000 Measurement True
 GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
 Class Control Hgt 1645.648 Code 1_30_09_BASE
 Obs User Input H.pr <null> V.pr <null>
 EQUIP SI Receiver SPS851 Serial no <no text>
 Antenna Zephyr - Model 2
 Meas To Antenna Phase Center
 Tape adj 0.000 Serial no <no text>
 H.Offset 0.000 V.Offset 0.000
 NOTE NM Receiver firmware version=0.000
 GPSANT KI Antenna ht 4.245 Measurement True
 GPSREF KI Reference 44501
 INIT KI Init event Gained Week 1516
 Init type On the fly seconds 522121.0
 Init counter 1 Point ID <no text>
 Survey type Real Time Plate H.Dist <null>
 Plate V.Dist <null> Plate azimuth <null>

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

NOTE    NM Receiver firmware version=3.710

GPSANT  KI Antenna ht 9.700 Measurement Uncorrected

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

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

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

PT DGN  SO Name 101 To the Point

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

SURVEY  EVENTKISurvey event Survey ended

SURVEY  KI Elev mask 10 PDOP mask 6.0

SURVEY  KI Elev mask 10 PDOP mask 6.0

SURVEY  KI Elev mask 10 PDOP mask 6.0

SURVEY  EVENTKISurvey event Rover survey started

GPSANT  KI Antenna ht 0.000 Measurement True

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

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

NOTE    NM Receiver firmware version=0.000

GPSANT  KI Antenna ht 4.245 Measurement True

GPSREF  KI Reference 44501

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

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

NOTE    NM Receiver firmware version=3.710

GPSANT  KI Antenna ht 9.700 Measurement Uncorrected

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

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

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

PT DGN  SO Name 102 To the Point

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

SURVEY  EVENTKISurvey event Survey ended

SURVEY  KI Elev mask 10 PDOP mask 6.0

SURVEY  KI Elev mask 10 PDOP mask 6.0

SURVEY  KI Elev mask 10 PDOP mask 6.0

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SURVEY EVENTKISurvey event Rover survey started

GPSANT KI Antenna ht 0.000 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 EVENTKISurvey event Survey ended
NOTE TS Time Date 05/01/2009 Time 13:43:55
NOTE TS Time Date 06/18/2009 Time 18:34:48
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY KI Elev mask 10 PDOP mask 6.0
SURVEY EVENTKISurvey event Rover survey started
GPSANT KI Antenna ht 0.000 Measuremt True
GPSPOS FD Point ID 44501 Lat 36°03'10.29917"N Lng 114°59'31.59480"W
      Class Control Hgt 1645.648 Code 1_30_09_BASE
      Obs User Input H.pr <null> V.pr <null>
EQUIP SI Receiver SPS851 Serial no <no text>
      Antenna Zephyr - Model 2
      Meas To Antenna Phase Center
      Tape adj 0.000 Serial no <no text>
      H.Offset 0.000 V.Offset 0.000
NOTE NM Receiver firmware version=0.000
GPSANT KI Antenna ht 4.245 Measuremt True
GPSREF KI Reference 44501
INIT KI Init event Gained Week 1536
      Init type On the fly seconds 437711.0
      Init counter 1 Point ID <no text>
      Survey type Real Time Plate H.Dist <null>
      Plate V.Dist <null> Plate azimuth <null>
NOTE NM Following data imported from Phase 4 Stake.job
NOTE NM Deleted 3:40:25 PM 7/17/2009
NOTE NM Modified 6:28:16 PM 6/18/2009
NOTE NM Old values
SURVEY EVENTKISurvey event Survey ended
NOTE TS Time Date 07/17/2009 Time 15:41:25
NOTE TS Time Date 08/20/2009 Time 15:57:35
NOTE NM Following data imported from CAMU Controll1.CSV
NOTE NM Following data imported from 8-19-09 Revised Waste PNTS.CSV
NOTE NM Following data imported from PH-2+3A-IC-ASB.job
GPSANT KI Antenna ht 0.000 Measuremt True
GPSPOS CC Point ID 23204 Lat 36°02'52.08043"N Lng 115°00'56.30693"W
      Class Normal Hgt 1674.337 Code ph-1 temp cp
      Obs Copied H.pr <null> V.pr <null>
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 1545
      Init type On the fly seconds 428524.0
      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	6.562	Measuremt	Uncorrected
GPSVEC	SO	Point ID	Auto0065	DX	-6773.869
		Class	Stake out	DZ	-1471.276
		Obs	L1 Fixed	H.pr	0.021
				DY	1934.959
				Code	8-20-09PRECHK
				V.pr	0.035
GPSQC1	NM	Min SVs	12	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	5	VDOP max	1.1
		Monitor status	Not monitored	RMS	12.9
		Horz SD		Vert SD	
		Start wk	1545 sec 428538.0	End wk	1545 sec 428544.0
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.0000489541	VCV xy	0.0000488933
		VCV xz	-0.0000188354	VCV yy	0.0000821556
		VCV yz	-0.0000290439	VCV zz	0.0000242419
PT DGN	SO	Name	23204	To the Point	
GRID D	SO	Delta N	0.028	Delta E	-0.040
		Delta Elv	-0.025		
NOTE	NM	Following data imported from PH-2+3A-IC-ASB.job			
GPSVEC	SO	Point ID	23269	DX	-6660.593
		Class	Stake out	DZ	-1516.828
		Obs	L1 Fixed	H.pr	0.021
				DY	1847.453
				Code toe	
				V.pr	0.036
GPSQC1	NM	Min SVs	12	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	6	VDOP max	1.2
		Monitor status	Not monitored	RMS	8.5
		Horz SD		Vert SD	
		Start wk	1545 sec 428669.0	End wk	1545 sec 428674.0
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.0000493638	VCV xy	0.0000509759
		VCV xz	-0.0000195054	VCV yy	0.0000872277
		VCV yz	-0.0000322111	VCV zz	0.0000260214
PT DGN	SO	Name	75165	To the Point	
GRID D	SO	Delta N	0.092	Delta E	0.658
		Delta Elv	-0.217		
GPSVEC	TP	Point ID	23270	DX	-6659.304
		Class	Normal	DZ	-1516.522
		Obs	L1 Fixed	H.pr	0.021
				DY	1846.391
				Code toe-1	
				V.pr	0.036
GPSQC1	NM	Min SVs	12	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	6	VDOP max	1.2
		Monitor status	Not monitored	RMS	15.3
		Horz SD		Vert SD	
		Start wk	1545 sec 428685.0	End wk	1545 sec 428690.0
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.000049026	VCV xy	0.0000507132
		VCV xz	-0.0000196483	VCV yy	0.0000869607
		VCV yz	-0.0000323993	VCV zz	0.0000263721
GPSVEC	SO	Point ID	23271	DX	-6658.213
		Class	Stake out	DZ	-1498.081
		Obs	L1 Fixed	H.pr	0.021
				DY	1861.823
				Code toe	
				V.pr	0.037
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	11.9
		Horz SD		Vert SD	
		Start wk	1545 sec 428720.0	End wk	1545 sec 428725.0
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.0000490094	VCV xy	0.00005089
		VCV xz	-0.0000200786	VCV yy	0.0000874008
		VCV yz	-0.0000330108	VCV zz	0.0000271148
PT DGN	SO	Name	75164	To the Point	
GRID D	SO	Delta N	-0.035	Delta E	-0.064
		Delta Elv	0.009		
GPSVEC	TP	Point ID	23272	DX	-6657.037
		Class	Normal	DZ	-1497.564
		Obs	L1 Fixed	H.pr	0.021
				DY	1861.034
				Code toe-1	
				V.pr	0.037
GPSQC1	NM	Min SVs	12	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	6	VDOP max	1.2
		Monitor status	Not monitored	RMS	15.7
		Horz SD		Vert SD	
		Start wk	1545 sec 428749.0	End wk	1545 sec 428754.0

GPSQC2	NM	Ttl satellites 12		Err Scale	0.0099999998
		VCV xx 0.0000492794		VCV xy	0.0000513606
		VCV xz -0.0000204483		VCV yy	0.0000881789
		VCV yz -0.0000335551		VCV zz	0.0000276028
GPSVEC	SO	Point ID 23273	DX -6655.834	DY	1870.535
		Class Stake out	DZ -1485.902	Code toe	
		Obs L1 Fixed	H.pr 0.021	V.pr	0.037
GPSQC1	NM	Min SVs 12		PDOP max	1.3
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	1.2
		Monitor status Not monitored		RMS	12.3
		Horz SD		Vert SD	
		Start wk 1545 sec 428808.0		End wk 1545 sec 428813.0	
GPSQC2	NM	Ttl satellites 12		Err Scale	0.0099999998
		VCV xx 0.0000495824		VCV xy	0.0000520813
		VCV xz -0.0000210377		VCV yy	0.0000897412
		VCV yz -0.0000345601		VCV zz	0.000028416
PT DGN	SO	Name 75163		To the Point	
GRID D	SO	Delta N -0.006		Delta E	-0.319
		Delta Elv -0.014			
GPSVEC	TP	Point ID 23274	DX -6654.493	DY	1869.510
		Class Normal	DZ -1485.475	Code toe-1	
		Obs L1 Fixed	H.pr 0.020	V.pr	0.037
GPSQC1	NM	Min SVs 12		PDOP max	1.3
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	1.2
		Monitor status Not monitored		RMS	13.0
		Horz SD		Vert SD	
		Start wk 1545 sec 428827.0		End wk 1545 sec 428832.0	
GPSQC2	NM	Ttl satellites 12		Err Scale	0.0099999998
		VCV xx 0.000048854		VCV xy	0.0000514534
		VCV xz -0.0000208939		VCV yy	0.0000889799
		VCV yz -0.0000343991		VCV zz	0.0000282865
GPSVEC	SO	Point ID 23275	DX -6652.151	DY	1878.893
		Class Stake out	DZ -1473.331	Code toe	
		Obs L1 Fixed	H.pr 0.021	V.pr	0.038
GPSQC1	NM	Min SVs 12		PDOP max	1.4
		Relative DOPs Yes		HDOP max	0.7
		Total GPS pos 6		VDOP max	1.2
		Monitor status Not monitored		RMS	12.6
		Horz SD		Vert SD	
		Start wk 1545 sec 428875.0		End wk 1545 sec 428880.0	
GPSQC2	NM	Ttl satellites 12		Err Scale	0.0099999998
		VCV xx 0.0000499584		VCV xy	0.0000529798
		VCV xz -0.0000215987		VCV yy	0.0000914873
		VCV yz -0.000035551		VCV zz	0.0000289991
PT DGN	SO	Name 75162		To the Point	
GRID D	SO	Delta N -0.039		Delta E	0.176
		Delta Elv -0.071			
GPSVEC	TP	Point ID 23276	DX -6650.920	DY	1877.636
		Class Normal	DZ -1473.092	Code toe-1	
		Obs L1 Fixed	H.pr 0.020	V.pr	0.037
GPSQC1	NM	Min SVs 12		PDOP max	1.3
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	1.2
		Monitor status Not monitored		RMS	14.2
		Horz SD		Vert SD	
		Start wk 1545 sec 428899.0		End wk 1545 sec 428904.0	
GPSQC2	NM	Ttl satellites 12		Err Scale	0.0099999998
		VCV xx 0.0000491778		VCV xy	0.0000523244
		VCV xz -0.0000214505		VCV yy	0.0000907812
		VCV yz -0.0000354237		VCV zz	0.000028881
GPSVEC	SO	Point ID 23277	DX -6645.865	DY	1886.120
		Class Stake out	DZ -1460.772	Code toe	
		Obs L1 Fixed	H.pr 0.021	V.pr	0.038
GPSQC1	NM	Min SVs 12		PDOP max	1.4
		Relative DOPs Yes		HDOP max	0.7
		Total GPS pos 6		VDOP max	1.2
		Monitor status Not monitored		RMS	10.2
		Horz SD		Vert SD	
		Start wk 1545 sec 428996.0		End wk 1545 sec 429001.0	
GPSQC2	NM	Ttl satellites 12		Err Scale	0.0099999998
		VCV xx 0.0000504487		VCV xy	0.0000544346
		VCV xz -0.000022548		VCV yy	0.0000948769
		VCV yz -0.00003744		VCV zz	0.0000301052
PT DGN	SO	Name 75161		To the Point	
GRID D	SO	Delta N 0.008		Delta E	-0.032
		Delta Elv -0.075			
GPSVEC	TP	Point ID 23278	DX -6644.214	DY	1884.400
		Class Normal	DZ -1461.249	Code toe-1	
		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	13.3
		Horz SD		Vert SD	
		Start wk 1545 sec	429016.0	End wk 1545 sec	429021.0
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.0000495264	VCV xy	0.000053583
		VCV xz	-0.0000223047	VCV yy	0.0000938733
		VCV yz	-0.0000371755	VCV zz	0.0000299028
GPSVEC	SO	Point ID 23279		DY	1892.579
		Class Stake out		Code toe	
		Obs L1 Fixed	H.pr 0.021	V.pr	0.038
GPSQC1	NM	Min SVs	12	PDOP max	1.4
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	6	VDOP max	1.2
		Monitor status	Not monitored	RMS	8.5
		Horz SD		Vert SD	
		Start wk 1545 sec	429060.0	End wk 1545 sec	429065.0
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.0000503869	VCV xy	0.0000548664
		VCV xz	-0.0000228545	VCV yy	0.0000958928
		VCV yz	-0.0000380862	VCV zz	0.0000303343
PT DGN	SO	Name	75160	To the Point	
GRID D	SO	Delta N	-0.103	Delta E	0.457
		Delta Elv	0.018		
GPSVEC	TP	Point ID 23280		DY	1890.910
		Class Normal		Code toe-1	
		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	0.7
		Total GPS pos	6	VDOP max	1.2
		Monitor status	Not monitored	RMS	16.3
		Horz SD		Vert SD	
		Start wk 1545 sec	429086.0	End wk 1545 sec	429091.0
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.0000497209	VCV xy	0.0000543373
		VCV xz	-0.0000227647	VCV yy	0.0000954975
		VCV yz	-0.0000381027	VCV zz	0.0000303372
GPSVEC	SO	Point ID 23281		DY	1897.220
		Class Stake out		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	8.5
		Horz SD		Vert SD	
		Start wk 1545 sec	429111.0	End wk 1545 sec	429116.0
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.0000491466	VCV xy	0.0000538902
		VCV xz	-0.0000226796	VCV yy	0.0000951258
		VCV yz	-0.0000380973	VCV zz	0.0000303042
PT DGN	SO	Name	75159	To the Point	
GRID D	SO	Delta N	-0.094	Delta E	0.149
		Delta Elv	-0.013		
GPSVEC	TP	Point ID 23282		DY	1895.856
		Class Normal		Code toe-1	
		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	18.9
		Horz SD		Vert SD	
		Start wk 1545 sec	429126.0	End wk 1545 sec	429131.0
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.0000485698	VCV xy	0.0000533669
		VCV xz	-0.0000225273	VCV yy	0.0000944972
		VCV yz	-0.0000379356	VCV zz	0.0000301697
GPSVEC	SO	Point ID 23283		DY	1900.767
		Class Stake out		Code toe	
		Obs L1 Fixed	H.pr 0.020	V.pr	0.039
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	16.0
		Horz SD		Vert SD	
		Start wk 1545 sec	429174.0	End wk 1545 sec	429179.0
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.0000493568	VCV xy	0.0000546065
		VCV xz	-0.0000231155	VCV yy	0.0000966996
		VCV yz	-0.0000389963	VCV zz	0.0000307575

PT DGN	SO	Name	75158	To the Point	
GRID D	SO	Delta N	-0.039	Delta E	0.074
		Delta Elv	-0.021		
GPSVEC	TP	Point ID 23284	DX -6616.924	DY	1898.951
		Class Normal	DZ -1427.258	Code	toe-1
		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	14.2	
		Horz SD	Vert SD		
		Start wk 1545 sec 429192.0	End wk 1545	sec 429197.0	
GPSQC2	NM	Ttl satellites 12	Err Scale	0.0099999998	
		VCV xx 0.0000484121	VCV xy	0.0000536861	
		VCV xz -0.0000228336	VCV yy	0.0000955881	
		VCV yz -0.0000386806	VCV zz	0.0000305469	
GPSVEC	SO	Point ID 23285	DX -6605.329	DY	1902.665
		Class Stake out	DZ -1417.027	Code	toe
		Obs L1 Fixed	H.pr 0.020	V.pr	0.039
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	12.5	
		Horz SD	Vert SD		
		Start wk 1545 sec 429248.0	End wk 1545	sec 429253.0	
GPSQC2	NM	Ttl satellites 11	Err Scale	0.0099999998	
		VCV xx 0.0000498901	VCV xy	0.0000558497	
		VCV xz -0.0000244117	VCV yy	0.000099164	
		VCV yz -0.0000410538	VCV zz	0.0000323294	
PT DGN	SO	Name	75157	To the Point	
GRID D	SO	Delta N	0.133	Delta E	-0.237
		Delta Elv	-0.037		
GPSVEC	TP	Point ID 23286	DX -6604.971	DY	1901.047
		Class Normal	DZ -1417.602	Code	toe-1
		Obs L1 Fixed	H.pr 0.020	V.pr	0.039
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	21.8	
		Horz SD	Vert SD		
		Start wk 1545 sec 429264.0	End wk 1545	sec 429269.0	
GPSQC2	NM	Ttl satellites 11	Err Scale	0.0099999998	
		VCV xx 0.0000497862	VCV xy	0.0000558721	
		VCV xz -0.0000245482	VCV yy	0.000099336	
		VCV yz -0.0000413052	VCV zz	0.0000325209	
GPSVEC	SO	Point ID 23287	DX -6773.882	DY	1934.928
		Class Stake out	DZ -1471.227	Code	8-20-09POSTCHK
		Obs L1 Fixed	H.pr 0.020	V.pr	0.039
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	11.5	
		Horz SD	Vert SD		
		Start wk 1545 sec 429344.0	End wk 1545	sec 429349.0	
GPSQC2	NM	Ttl satellites 11	Err Scale	0.0099999998	
		VCV xx 0.0000509814	VCV xy	0.0000573339	
		VCV xz -0.000024832	VCV yy	0.0001010451	
		VCV yz -0.000039991	VCV zz	0.0000286546	
PT DGN	SO	Name	23204	To the Point	
GRID D	SO	Delta N	0.008	Delta E	-0.041
		Delta Elv	-0.081		
SURVEY EVENTKISurvey event Survey ended					
NOTE	TS	Time Date	08/21/2009	Time	06:17:19
NOTE	TS	Time Date	08/21/2009	Time	06:59:35
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	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	1545
		Init type	On the fly	seconds	482407.0
		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	23288	DX	-6773.882
		Class Stake out		DZ	-1471.269
		Obs L1 Fixed		H.pr	0.023
				DY	1934.967
				Code	8-21-09prechk
				V.pr	0.035
GPSQC1	NM	Min SVs	10	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	6	VDOP max	1.1
		Monitor status	Not monitored	RMS	10.7
		Horz SD		Vert SD	
		Start wk	1545 sec 482582.0	End wk	1545 sec 482587.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000401457	VCV xy	0.0000447908
		VCV xz	-0.000011687	VCV yy	0.0000965898
		VCV yz	-0.000025792	VCV zz	0.0000293924
PT DGN	SO	Name	23204	To the Point	
GRID D	SO	Delta N	0.021	Delta E	-0.024
		Delta Elv	-0.028		
GPSVEC	SO	Point ID	23289	DX	-6592.411
		Class Stake out		DZ	-1408.541
		Obs L1 Fixed		H.pr	0.022
				DY	1903.587
				Code toe	
				V.pr	0.033
GPSQC1	NM	Min SVs	10	PDOP max	1.2
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	14.0
		Horz SD		Vert SD	
		Start wk	1545 sec 482917.0	End wk	1545 sec 482922.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000327624	VCV xy	0.00003427
		VCV xz	-0.0000101904	VCV yy	0.0000815937
		VCV yz	-0.0000250415	VCV zz	0.0000293615
PT DGN	SO	Name	75156	To the Point	
GRID D	SO	Delta N	0.033	Delta E	0.095
		Delta Elv	0.017		
GPSVEC	TP	Point ID	23290	DX	-6592.021
		Class Normal		DZ	-1409.731
		Obs L1 Fixed		H.pr	0.021
				DY	1901.474
				Code toe-1	
				V.pr	0.033
GPSQC1	NM	Min SVs	6	PDOP max	1.2
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	5	VDOP max	1.0
		Monitor status	Not monitored	RMS	17.4
		Horz SD		Vert SD	
		Start wk	1545 sec 482935.0	End wk	1545 sec 482941.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000322441	VCV xy	0.0000335298
		VCV xz	-0.0000099387	VCV yy	0.0000802701
		VCV yz	-0.0000248094	VCV zz	0.0000292341
GPSVEC	SO	Point ID	23291	DX	-6578.651
		Class Stake out		DZ	-1401.133
		Obs L1 Fixed		H.pr	0.021
				DY	1903.006
				Code toe	
				V.pr	0.032
GPSQC1	NM	Min SVs	10	PDOP max	1.2
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	7.8
		Horz SD		Vert SD	
		Start wk	1545 sec 482975.0	End wk	1545 sec 482980.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000314326	VCV xy	0.0000324274
		VCV xz	-0.0000097465	VCV yy	0.000078545
		VCV yz	-0.0000246406	VCV zz	0.0000291316

PT DGN	SO	Name	75155	To the Point	
GRID D	SO	Delta N	-0.289	Delta E	0.346
		Delta Elv	-0.114		
GPSVEC	TP	Point ID 23292	DX -6578.161	DY	1901.205
		Class Normal	DZ -1402.046	Code toe-1	
		Obs L1 Fixed	H.pr 0.021	V.pr	0.032
GPSQC1	NM	Min SVs 6	PDOP max	1.2	
		Relative DOPs Yes	HDOP max	0.7	
		Total GPS pos 6	VDOP max	1.0	
		Monitor status Not monitored	RMS	11.3	
		Horz SD	Vert SD		
		Start wk 1545 sec 482993.0	End wk 1545	sec 482999.0	
GPSQC2	NM	Ttl satellites 6	Err Scale	0.0099999998	
		VCV xx 0.0000310789	VCV xy	0.0000318653	
		VCV xz -0.0000095786	VCV yy	0.0000775971	
		VCV yz -0.0000245304	VCV zz	0.0000291711	
GPSVEC	SO	Point ID 23293	DX -6564.263	DY	1901.620
		Class Stake out	DZ -1394.344	Code toe	
		Obs L1 Fixed	H.pr 0.021	V.pr	0.032
GPSQC1	NM	Min SVs 10	PDOP max	1.2	
		Relative DOPs Yes	HDOP max	0.7	
		Total GPS pos 6	VDOP max	1.0	
		Monitor status Not monitored	RMS	12.6	
		Horz SD	Vert SD		
		Start wk 1545 sec 483061.0	End wk 1545	sec 483066.0	
GPSQC2	NM	Ttl satellites 10	Err Scale	0.0099999998	
		VCV xx 0.0000303926	VCV xy	0.0000305541	
		VCV xz -0.0000092553	VCV yy	0.0000761002	
		VCV yz -0.0000247336	VCV zz	0.0000297596	
PT DGN	SO	Name	75154	To the Point	
GRID D	SO	Delta N	-1.683	Delta E	0.769
		Delta Elv	-0.263		
GPSVEC	TP	Point ID 23294	DX -6564.518	DY	1899.784
		Class Normal	DZ -1395.897	Code toe-1	
		Obs L1 Fixed	H.pr 0.021	V.pr	0.032
GPSQC1	NM	Min SVs 10	PDOP max	1.2	
		Relative DOPs Yes	HDOP max	0.7	
		Total GPS pos 6	VDOP max	1.0	
		Monitor status Not monitored	RMS	12.3	
		Horz SD	Vert SD		
		Start wk 1545 sec 483081.0	End wk 1545	sec 483086.0	
GPSQC2	NM	Ttl satellites 10	Err Scale	0.0099999998	
		VCV xx 0.0000299095	VCV xy	0.0000298929	
		VCV xz -0.0000090571	VCV yy	0.0000749479	
		VCV yz -0.0000245507	VCV zz	0.0000296283	
GPSVEC	SO	Point ID 23295	DX -6549.445	DY	1898.016
		Class Stake out	DZ -1390.318	Code toe	
		Obs L1 Fixed	H.pr 0.021	V.pr	0.032
GPSQC1	NM	Min SVs 10	PDOP max	1.2	
		Relative DOPs Yes	HDOP max	0.6	
		Total GPS pos 6	VDOP max	1.0	
		Monitor status Not monitored	RMS	11.9	
		Horz SD	Vert SD		
		Start wk 1545 sec 483110.0	End wk 1545	sec 483115.0	
GPSQC2	NM	Ttl satellites 10	Err Scale	0.0099999998	
		VCV xx 0.0000294002	VCV xy	0.0000292078	
		VCV xz -0.0000089538	VCV yy	0.000073891	
		VCV yz -0.0000244716	VCV zz	0.0000295918	
PT DGN	SO	Name	75153	To the Point	
GRID D	SO	Delta N	-1.717	Delta E	0.758
		Delta Elv	-0.247		
GPSVEC	TP	Point ID 23296	DX -6550.223	DY	1896.508
		Class Normal	DZ -1392.014	Code toe-1	
		Obs L1 Fixed	H.pr 0.021	V.pr	0.031
GPSQC1	NM	Min SVs 10	PDOP max	1.2	
		Relative DOPs Yes	HDOP max	0.6	
		Total GPS pos 6	VDOP max	1.0	
		Monitor status Not monitored	RMS	13.9	
		Horz SD	Vert SD		
		Start wk 1545 sec 483146.0	End wk 1545	sec 483151.0	
GPSQC2	NM	Ttl satellites 10	Err Scale	0.0099999998	
		VCV xx 0.0000288882	VCV xy	0.0000284796	
		VCV xz -0.0000088621	VCV yy	0.0000728704	
		VCV yz -0.0000244674	VCV zz	0.0000296722	
GPSVEC	SO	Point ID 23297	DX -6538.010	DY	1893.864
		Class Stake out	DZ -1388.939	Code toe	
		Obs L1 Fixed	H.pr 0.021	V.pr	0.031

GPSQC1	NM	Min SVs	10	PDOP max	1.2
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	14.8
		Horz SD		Vert SD	
		Start wk 1545 sec	483178.0	End wk 1545 sec	483183.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000284174	VCV xy	0.0000278261
		VCV xz	-0.0000087719	VCV yy	0.0000719205
		VCV yz	-0.0000244414	VCV zz	0.0000297155
PT DGN	SO	Name	75152	To the Point	
GRID D	SO	Delta N	-1.582	Delta E	0.940
		Delta Elv	-0.232		
GPSVEC	TP	Point ID 23298	DX -6539.094	DY	1892.090
		Class Normal	DZ -1391.036	Code toe-1	
		Obs L1 Fixed	H.pr 0.020	V.pr 0.031	
GPSQC1	NM	Min SVs	10	PDOP max	1.2
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	5	VDOP max	1.0
		Monitor status	Not monitored	RMS	10.7
		Horz SD		Vert SD	
		Start wk 1545 sec	483198.0	End wk 1545 sec	483203.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000280586	VCV xy	0.0000273662
		VCV xz	-0.0000086934	VCV yy	0.0000711643
		VCV yz	-0.0000243615	VCV zz	0.0000296566
GPSVEC	SO	Point ID 23299	DX -6531.361	DY	1890.567
		Class Stake out	DZ -1388.947	Code toe	
		Obs L1 Fixed	H.pr 0.020	V.pr 0.031	
GPSQC1	NM	Min SVs	10	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	5	VDOP max	1.0
		Monitor status	Not monitored	RMS	7.0
		Horz SD		Vert SD	
		Start wk 1545 sec	483225.0	End wk 1545 sec	483231.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000275023	VCV xy	0.0000266656
		VCV xz	-0.0000085574	VCV yy	0.0000699569
		VCV yz	-0.0000241921	VCV zz	0.0000295103
PT DGN	SO	Name	75151	To the Point	
GRID D	SO	Delta N	-0.942	Delta E	0.224
		Delta Elv	-0.370		
GPSVEC	TP	Point ID 23300	DX -6531.946	DY	1889.310
		Class Normal	DZ -1390.424	Code toe-1	
		Obs L1 Fixed	H.pr 0.020	V.pr 0.031	
GPSQC1	NM	Min SVs	10	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	13.5
		Horz SD		Vert SD	
		Start wk 1545 sec	483250.0	End wk 1545 sec	483255.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.000027142	VCV xy	0.0000261795
		VCV xz	-0.0000084771	VCV yy	0.0000692003
		VCV yz	-0.0000241451	VCV zz	0.0000295166
GPSVEC	SO	Point ID 23301	DX -6523.152	DY	1886.538
		Class Stake out	DZ -1389.267	Code toe	
		Obs L1 Fixed	H.pr 0.020	V.pr 0.031	
GPSQC1	NM	Min SVs	10	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	12.5
		Horz SD		Vert SD	
		Start wk 1545 sec	483287.0	End wk 1545 sec	483292.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000269734	VCV xy	0.0000256157
		VCV xz	-0.0000082686	VCV yy	0.0000687759
		VCV yz	-0.0000244371	VCV zz	0.0000301268
PT DGN	SO	Name	75150	To the Point	
GRID D	SO	Delta N	-0.415	Delta E	0.028
		Delta Elv	-0.408		
GPSVEC	TP	Point ID 23302	DX -6523.902	DY	1885.255
		Class Normal	DZ -1390.726	Code toe-1	
		Obs L1 Fixed	H.pr 0.020	V.pr 0.031	
GPSQC1	NM	Min SVs	10	PDOP max	1.2
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	13.2
		Horz SD		Vert SD	
		Start wk 1545 sec	483307.0	End wk 1545 sec	483312.0

GPSQC2	NM	Ttl satellites 10	Err Scale 0.0099999998
		VCV xx 0.000026792	VCV xy 0.0000253264
		VCV xz -0.0000082388	VCV yy 0.0000684413
		VCV yz -0.0000245061	VCV zz 0.0000302682
GPSVEC	SO	Point ID 23303	DX -6516.618
		Class Stake out	DZ -1389.633
		Obs L1 Fixed	H.pr 0.020
			DY 1883.231
			Code toe
			V.pr 0.031
GPSQC1	NM	Min SVs 10	PDOP max 1.1
		Relative DOPs Yes	HDOP max 0.6
		Total GPS pos 5	VDOP max 1.0
		Monitor status Not monitored	RMS 14.2
		Horz SD	Vert SD
		Start wk 1545 sec 483354.0	End wk 1545 sec 483360.0
GPSQC2	NM	Ttl satellites 10	Err Scale 0.0099999998
		VCV xx 0.0000262958	VCV xy 0.0000245729
		VCV xz -0.0000081371	VCV yy 0.0000674845
		VCV yz -0.0000246017	VCV zz 0.0000305247
PT DGN	SO	Name 75149	To the Point
GRID D	SO	Delta N -0.343	Delta E -0.080
		Delta Elv -0.373	
GPSVEC	TP	Point ID 23304	DX -6517.389
		Class Normal	DZ -1391.054
		Obs L1 Fixed	H.pr 0.020
			DY 1881.945
			Code toe-1
			V.pr 0.030
GPSQC1	NM	Min SVs 10	PDOP max 1.1
		Relative DOPs Yes	HDOP max 0.6
		Total GPS pos 6	VDOP max 1.0
		Monitor status Not monitored	RMS 13.5
		Horz SD	Vert SD
		Start wk 1545 sec 483378.0	End wk 1545 sec 483384.0
GPSQC2	NM	Ttl satellites 10	Err Scale 0.0099999998
		VCV xx 0.0000260219	VCV xy 0.0000241048
		VCV xz -0.0000079817	VCV yy 0.0000668584
		VCV yz -0.0000246414	VCV zz 0.0000306779
GPSVEC	SO	Point ID 23305	DX -6512.153
		Class Stake out	DZ -1390.319
		Obs L1 Fixed	H.pr 0.020
			DY 1880.541
			Code toe
			V.pr 0.030
GPSQC1	NM	Min SVs 10	PDOP max 1.1
		Relative DOPs Yes	HDOP max 0.6
		Total GPS pos 6	VDOP max 0.9
		Monitor status Not monitored	RMS 11.3
		Horz SD	Vert SD
		Start wk 1545 sec 483414.0	End wk 1545 sec 483419.0
GPSQC2	NM	Ttl satellites 10	Err Scale 0.0099999998
		VCV xx 0.0000257162	VCV xy 0.0000236136
		VCV xz -0.0000079211	VCV yy 0.0000662887
		VCV yz -0.000024762	VCV zz 0.0000309368
PT DGN	SO	Name 75148	To the Point
GRID D	SO	Delta N 0.038	Delta E -0.068
		Delta Elv -0.475	
GPSVEC	TP	Point ID 23306	DX -6513.278
		Class Normal	DZ -1391.854
		Obs L1 Fixed	H.pr 0.020
			DY 1879.403
			Code toe-1
			V.pr 0.030
GPSQC1	NM	Min SVs 10	PDOP max 1.1
		Relative DOPs Yes	HDOP max 0.6
		Total GPS pos 6	VDOP max 0.9
		Monitor status Not monitored	RMS 13.1
		Horz SD	Vert SD
		Start wk 1545 sec 483452.0	End wk 1545 sec 483457.0
GPSQC2	NM	Ttl satellites 10	Err Scale 0.0099999998
		VCV xx 0.0000253591	VCV xy 0.0000230726
		VCV xz -0.0000078459	VCV yy 0.0000656077
		VCV yz -0.0000248593	VCV zz 0.0000311699
GPSVEC	SO	Point ID 23307	DX -6504.238
		Class Stake out	DZ -1391.536
		Obs L1 Fixed	H.pr 0.020
			DY 1876.101
			Code toe
			V.pr 0.030
GPSQC1	NM	Min SVs 10	PDOP max 1.1
		Relative DOPs Yes	HDOP max 0.6
		Total GPS pos 6	VDOP max 0.9
		Monitor status Not monitored	RMS 8.7
		Horz SD	Vert SD
		Start wk 1545 sec 483491.0	End wk 1545 sec 483496.0
GPSQC2	NM	Ttl satellites 10	Err Scale 0.0099999998
		VCV xx 0.0000250532	VCV xy 0.0000225769
		VCV xz -0.0000077853	VCV yy 0.0000650583
		VCV yz -0.0000250171	VCV zz 0.0000314892
PT DGN	SO	Name 75147	To the Point
GRID D	SO	Delta N -0.045	Delta E -0.019
		Delta Elv -0.320	
GPSVEC	TP	Point ID 23308	DX -6505.464
		Class Normal	DZ -1392.727
		Obs L1 Fixed	H.pr 0.020
			DY 1875.299
			Code toe-1
			V.pr 0.030

GPSQC1	NM	Min SVs	10	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	12.8
		Horz SD		Vert SD	
		Start wk 1545 sec	483510.0	End wk 1545 sec	483515.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000248772	VCV xy	0.0000223192
		VCV xz	-0.000007748	VCV yy	0.0000647251
		VCV yz	-0.000025067	VCV zz	0.0000316045
GPSVEC	SO	Point ID 23309	DX -6495.038	DY	1870.225
		Class Stake out	DZ -1393.471	Code toe	
		Obs L1 Fixed	H.pr 0.020	V.pr	0.030
GPSQC1	NM	Min SVs	10	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	11.0
		Horz SD		Vert SD	
		Start wk 1545 sec	483544.0	End wk 1545 sec	483549.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000246621	VCV xy	0.0000219357
		VCV xz	-0.0000077051	VCV yy	0.0000643647
		VCV yz	-0.0000252551	VCV zz	0.0000319602
PT DGN	SO	Name	75146	To the Point	
GRID D	SO	Delta N	-0.232	Delta E	0.013
		Delta Elv	-0.364		
GPSVEC	TP	Point ID 23310	DX -6496.247	DY	1869.496
		Class Normal	DZ -1394.463	Code toe-1	
		Obs L1 Fixed	H.pr 0.020	V.pr	0.030
GPSQC1	NM	Min SVs	10	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	10.9
		Horz SD		Vert SD	
		Start wk 1545 sec	483564.0	End wk 1545 sec	483569.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000242741	VCV xy	0.000021492
		VCV xz	-0.0000075951	VCV yy	0.000063497
		VCV yz	-0.0000250881	VCV zz	0.000031783
GPSVEC	SO	Point ID 23311	DX -6482.759	DY	1861.967
		Class Stake out	DZ -1396.820	Code toe	
		Obs L1 Fixed	H.pr 0.020	V.pr	0.030
GPSQC1	NM	Min SVs	10	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	10.0
		Horz SD		Vert SD	
		Start wk 1545 sec	483606.0	End wk 1545 sec	483611.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000241262	VCV xy	0.0000211247
		VCV xz	-0.0000075716	VCV yy	0.0000633364
		VCV yz	-0.0000254447	VCV zz	0.000032402
PT DGN	SO	Name	75145	To the Point	
GRID D	SO	Delta N	-0.757	Delta E	0.058
		Delta Elv	-0.343		
GPSVEC	TP	Point ID 23312	DX -6484.030	DY	1861.178
		Class Normal	DZ -1397.823	Code toe-1	
		Obs L1 Fixed	H.pr 0.020	V.pr	0.030
GPSQC1	NM	Min SVs	10	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	12.1
		Horz SD		Vert SD	
		Start wk 1545 sec	483624.0	End wk 1545 sec	483629.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000239727	VCV xy	0.0000207839
		VCV xz	-0.0000074163	VCV yy	0.0000630044
		VCV yz	-0.0000255743	VCV zz	0.000032637
GPSVEC	SO	Point ID 23313	DX -6773.906	DY	1934.948
		Class Stake out	DZ -1471.283	Code 8-21-09postchk	
		Obs L1 Fixed	H.pr 0.020	V.pr	0.029
GPSQC1	NM	Min SVs	10	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	10.8
		Horz SD		Vert SD	
		Start wk 1545 sec	483744.0	End wk 1545 sec	483749.0
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000240085	VCV xy	0.0000201317
		VCV xz	-0.0000075065	VCV yy	0.0000601303
		VCV yz	-0.0000230041	VCV zz	0.0000300802

PT DGN	SO	Name	23204	To the Point			
GRID D	SO	Delta N	0.048	Delta E	-0.011		
		Delta Elv	-0.041				
SURVEY EVENTKISurvey event Survey ended							
NOTE	TS	Time Date	08/21/2009	Time	08:08:09		
NOTE	TS	Time Date	09/09/2009	Time	09:21:42		
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	1548		
		Init type	On the fly	seconds	318138.0		
		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	09/09/2009	Time	09:52:29		
LINE	KI	Line	Line0001	Code	<no text>		
		Start Pt	34012	End Pt	34040		
		St North	16789.211	End North	16740.503		
		St East	13385.264	End East	13527.484		
		St Elev	1770.196	End Elev	1820.231		
		Start Stn	0.000	Stn Int	<null>		
LINE	KI	Line	Line0002	Code	<no text>		
		Start Pt	34013	End Pt	34040		
		St North	16745.893	End North	16740.503		
		St East	13376.359	End East	13527.484		
		St Elev	1770.629	End Elev	1820.231		
		Start Stn	0.000	Stn Int	<null>		
LINE	KI	Line	Line0003	Code	<no text>		
		Start Pt	34040	End Pt	34014		
		St North	16740.503	End North	16706.903		
		St East	13527.484	End East	13379.940		
		St Elev	1820.231	End Elev	1771.019		
		Start Stn	0.000	Stn Int	<null>		
LINE	KI	Line	Line0004	Code	<no text>		
		Start Pt	34040	End Pt	34015		
		St North	16740.503	End North	16654.036		
		St East	13527.484	End East	13404.646		
		St Elev	1820.231	End Elev	1771.602		
		Start Stn	0.000	Stn Int	<null>		
LINE	KI	Line	Line0005	Code	<no text>		
		Start Pt	34040	End Pt	34016		
		St North	16740.503	End North	16626.887		
		St East	13527.484	End East	13431.523		
		St Elev	1820.231	End Elev	1771.808		
		Start Stn	0.000	Stn Int	<null>		
LINE	KI	Line	Line0006	Code	<no text>		
		Start Pt	34040	End Pt	34017		
		St North	16740.503	End North	16607.648		
		St East	13527.484	End East	13465.226		
		St Elev	1820.231	End Elev	1772.368		
		Start Stn	0.000	Stn Int	<null>		
LINE	KI	Line	Line0007	Code	<no text>		
		Start Pt	34040	End Pt	34028		
		St North	16740.503	End North	16598.561		
		St East	13527.484	End East	13501.862		
		St Elev	1820.231	End Elev	1772.740		
		Start Stn	0.000	Stn Int	<null>		
LINE	KI	Line	Line0008	Code	<no text>		
		Start Pt	34040	End Pt	34029		
		St North	16740.503	End North	16599.288		
		St East	13527.484	End East	13538.961		
		St Elev	1820.231	End Elev	1773.105		
		Start Stn	0.000	Stn Int	<null>		
SURVEY EVENTKISurvey event Communications error							

NOTE TS Time Date 09/09/2009 Time 10:31:41

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/09/2009 Time 13:47:30

NOTE TS Time Date 09/12/2009 Time 15:31:24

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 1548
Init type On the fly seconds 599511.0
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 09/14/2009 Time 13:13:31

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 1549
Init type On the fly seconds 159253.0
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 09/14/2009 Time 14:29:32

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/15/2009 Time 09:01:39

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	Measurement True
GPSREF	KI	Reference 44501	
INIT	KI	Init event Gained	Week 1549
		Init type On the fly	seconds 230523.0
		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 23314	DX -6414.167 DY 2243.232
		Class Stake out	DZ -906.823 Code 9-15-09chk
		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 19.2
		Horz SD	Vert SD
		Start wk 1549 sec 230621.0	End wk 1549 sec 230629.0
GPSQC2	NM	Ttl satellites 9	Err Scale 0.0099999998
		VCV xx 0.0000231561	VCV xy 0.0000222662
		VCV xz 0.0000001693	VCV yy 0.000058832
		VCV yz -0.00000186168	VCV zz 0.0000316063
PT DGN	SO	Name CP426	To the Point
GRID D	SO	Delta N -0.040	Delta E -0.076
		Delta Elv -0.039	
GPSVEC	TP	Point ID 23315	DX -6658.255 DY 2281.507
		Class Normal	DZ -993.129 Code tempbm
		Obs L1 Fixed	H.pr 0.019 V.pr 0.023
GPSQC1	NM	Min SVs 14	PDOP max 0.9
		Relative DOPs Yes	HDOP max 0.6
		Total GPS pos 5	VDOP max 0.7
		Monitor status Not monitored	RMS 18.3
		Horz SD	Vert SD
		Start wk 1549 sec 230793.0	End wk 1549 sec 230798.0
GPSQC2	NM	Ttl satellites 14	Err Scale 0.0099999998
		VCV xx 0.0000170691	VCV xy 0.0000131808
		VCV xz 0.0000005128	VCV yy 0.0000372667
		VCV yz -0.0000131702	VCV zz 0.0000280339
GPSVEC	TP	Point ID 23316	DX -6904.229 DY 2257.653
		Class Del stake out	DZ -1156.400 Code rd
		Obs L1 Fixed	H.pr 0.018 V.pr 0.024
GPSQC1	NM	Min SVs 15	PDOP max 0.9
		Relative DOPs Yes	HDOP max 0.6
		Total GPS pos 6	VDOP max 0.7
		Monitor status Not monitored	RMS 15.6
		Horz SD	Vert SD
		Start wk 1549 sec 231912.0	End wk 1549 sec 231917.0
GPSQC2	NM	Ttl satellites 15	Err Scale 0.0099999998
		VCV xx 0.0000179438	VCV xy 0.0000139255
		VCV xz -0.0000040269	VCV yy 0.0000356974
		VCV yz -0.0000147258	VCV zz 0.0000272411
PT DGN	TP	Name 75057	To the Point
GRID D	TP	Delta N -0.017	Delta E 0.036
		Delta Elv -0.084	
NOTE	NM	Deleted 9:26:46 AM 9/15/2009	
GPSVEC	SO	Point ID 23317	DX -6887.530 DY 2247.246
		Class Stake out	DZ -1160.148 Code rd
		Obs L1 Fixed	H.pr 0.018 V.pr 0.024
GPSQC1	NM	Min SVs 15	PDOP max 0.9
		Relative DOPs Yes	HDOP max 0.5
		Total GPS pos 5	VDOP max 0.7
		Monitor status Not monitored	RMS 14.3
		Horz SD	Vert SD
		Start wk 1549 sec 232003.0	End wk 1549 sec 232008.0
GPSQC2	NM	Ttl satellites 15	Err Scale 0.0099999998
		VCV xx 0.0000178115	VCV xy 0.0000138833
		VCV xz -0.0000040675	VCV yy 0.0000367594
		VCV yz -0.0000155343	VCV zz 0.0000282562
PT DGN	SO	Name 75058	To the Point
GRID D	SO	Delta N 0.002	Delta E 0.012
		Delta Elv 0.007	

GPSVEC	SO	Point ID 23318	DX	-6904.167	DY	2257.741
		Class Stake out	DZ	-1156.526	Code rd	
		Obs L1 Fixed	H.pr	0.018	V.pr	0.024
GPSQC1	NM	Min SVs 15		PDOP max	0.9	
		Relative DOPs Yes		HDOP max	0.5	
		Total GPS pos 6		VDOP max	0.7	
		Monitor status Not monitored		RMS	13.5	
		Horz SD		Vert SD		
		Start wk 1549 sec 232066.0		End wk 1549 sec 232071.0		
GPSQC2	NM	Ttl satellites 15		Err Scale	0.0099999998	
		VCV xx 0.0000177082		VCV xy	0.0000138229	
		VCV xz -0.0000042306		VCV yy	0.0000368733	
		VCV yz -0.0000157561		VCV zz	0.0000285093	
PT DGN	SO	Name 75057		To the Point		
GRID D	SO	Delta N 0.022		Delta E	0.017	
		Delta Elv 0.076				
GPSVEC	SO	Point ID 23319	DX	-6926.363	DY	2234.993
		Class Stake out	DZ	-1192.547	Code rd	
		Obs L1 Fixed	H.pr	0.018	V.pr	0.024
GPSQC1	NM	Min SVs 15		PDOP max	0.9	
		Relative DOPs Yes		HDOP max	0.6	
		Total GPS pos 6		VDOP max	0.8	
		Monitor status Not monitored		RMS	20.2	
		Horz SD		Vert SD		
		Start wk 1549 sec 232132.0		End wk 1549 sec 232137.0		
GPSQC2	NM	Ttl satellites 15		Err Scale	0.0099999998	
		VCV xx 0.0000176969		VCV xy	0.0000138295	
		VCV xz -0.0000044611		VCV yy	0.0000368965	
		VCV yz -0.0000159998		VCV zz	0.000028788	
PT DGN	SO	Name 75055		To the Point		
GRID D	SO	Delta N 0.007		Delta E	-0.023	
		Delta Elv 0.018				
GPSVEC	SO	Point ID 23320	DX	-6909.745	DY	2224.567
		Class Stake out	DZ	-1196.226	Code rd	
		Obs L1 Fixed	H.pr	0.017	V.pr	0.024
GPSQC1	NM	Min SVs 16		PDOP max	0.9	
		Relative DOPs Yes		HDOP max	0.5	
		Total GPS pos 6		VDOP max	0.8	
		Monitor status Not monitored		RMS	14.8	
		Horz SD		Vert SD		
		Start wk 1549 sec 232235.0		End wk 1549 sec 232240.0		
GPSQC2	NM	Ttl satellites 16		Err Scale	0.0099999998	
		VCV xx 0.0000176266		VCV xy	0.0000138162	
		VCV xz -0.0000050226		VCV yy	0.000036777	
		VCV yz -0.0000162629		VCV zz	0.0000274125	
PT DGN	SO	Name 75056		To the Point		
GRID D	SO	Delta N 0.002		Delta E	0.018	
		Delta Elv 0.026				
GPSVEC	SO	Point ID 23321	DX	-6931.922	DY	2201.881
		Class Stake out	DZ	-1232.291	Code rd	
		Obs L1 Fixed	H.pr	0.017	V.pr	0.024
GPSQC1	NM	Min SVs 16		PDOP max	0.9	
		Relative DOPs Yes		HDOP max	0.5	
		Total GPS pos 6		VDOP max	0.8	
		Monitor status Not monitored		RMS	12.2	
		Horz SD		Vert SD		
		Start wk 1549 sec 232302.0		End wk 1549 sec 232307.0		
GPSQC2	NM	Ttl satellites 16		Err Scale	0.0099999998	
		VCV xx 0.0000175299		VCV xy	0.0000137543	
		VCV xz -0.0000052115		VCV yy	0.0000365095	
		VCV yz -0.0000163457		VCV zz	0.0000277397	
PT DGN	SO	Name 75054		To the Point		
GRID D	SO	Delta N -0.016		Delta E	-0.014	
		Delta Elv 0.046				
NOTE	TS	Time Date 09/15/2009 Time 09:32:59				
GPSVEC	SO	Point ID 23322	DX	-6948.612	DY	2212.313
		Class Stake out	DZ	-1228.640	Code rd	
		Obs L1 Fixed	H.pr	0.017	V.pr	0.024
GPSQC1	NM	Min SVs 16		PDOP max	0.9	
		Relative DOPs Yes		HDOP max	0.5	
		Total GPS pos 6		VDOP max	0.7	
		Monitor status Not monitored		RMS	9.2	
		Horz SD		Vert SD		
		Start wk 1549 sec 232388.0		End wk 1549 sec 232393.0		
GPSQC2	NM	Ttl satellites 16		Err Scale	0.0099999998	
		VCV xx 0.0000174078		VCV xy	0.0000136783	
		VCV xz -0.000005529		VCV yy	0.0000362939	
		VCV yz -0.000016434		VCV zz	0.000027504	

PT DGN	SO	Name	75052	To the Point	
GRID D	SO	Delta N	0.027	Delta E	0.013
		Delta Elv	0.034		
GPSVEC	SO	Point ID 23323	DX -6970.825	DY 2189.617	
		Class Stake out	DZ -1264.698	Code rd	
		Obs L1 Fixed	H.pr 0.017	V.pr 0.024	
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.7
		Monitor status	Not monitored	RMS	19.0
		Horz SD		Vert SD	
		Start wk 1549	sec 232441.0	End wk 1549	sec 232447.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000172764	VCV xy	0.0000135977
		VCV xz	-0.0000056675	VCV yy	0.0000359729
		VCV yz	-0.0000164429	VCV zz	0.0000276274
PT DGN	SO	Name	75050	To the Point	
GRID D	SO	Delta N	-0.015	Delta E	0.002
		Delta Elv	0.030		
GPSVEC	SO	Point ID 23324	DX -6954.224	DY 2179.173	
		Class Stake out	DZ -1268.359	Code rd	
		Obs L1 Fixed	H.pr 0.017	V.pr 0.024	
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	15.2
		Horz SD		Vert SD	
		Start wk 1549	sec 232500.0	End wk 1549	sec 232505.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000172703	VCV xy	0.0000136231
		VCV xz	-0.000005875	VCV yy	0.0000358775
		VCV yz	-0.0000165737	VCV zz	0.0000278444
PT DGN	SO	Name	75051	To the Point	
GRID D	SO	Delta N	-0.022	Delta E	0.051
		Delta Elv	0.008		
GPSVEC	SO	Point ID 23325	DX -6976.406	DY 2156.446	
		Class Stake out	DZ -1304.468	Code rd	
		Obs L1 Fixed	H.pr 0.017	V.pr 0.024	
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	12.6
		Horz SD		Vert SD	
		Start wk 1549	sec 232564.0	End wk 1549	sec 232569.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000172912	VCV xy	0.0000136798
		VCV xz	-0.0000061203	VCV yy	0.0000358259
		VCV yz	-0.0000167511	VCV zz	0.0000280612
PT DGN	SO	Name	75049	To the Point	
GRID D	SO	Delta N	-0.014	Delta E	-0.001
		Delta Elv	0.022		
GPSVEC	SO	Point ID 23326	DX -6993.057	DY 2166.891	
		Class Stake out	DZ -1300.814	Code rd	
		Obs L1 Fixed	H.pr 0.017	V.pr 0.024	
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	13.0
		Horz SD		Vert SD	
		Start wk 1549	sec 232622.0	End wk 1549	sec 232627.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000172941	VCV xy	0.0000137254
		VCV xz	-0.0000063406	VCV yy	0.0000357564
		VCV yz	-0.0000169026	VCV zz	0.0000282095
PT DGN	SO	Name	75048	To the Point	
GRID D	SO	Delta N	0.010	Delta E	-0.004
		Delta Elv	0.031		
SURVEY	EVENT	KISurvey event	Error while setting receiver mode		
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	1549
		Init type On the fly	seconds	232779.0
		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 23327	DX -7015.292	DY 2144.186
		Class Stake out	DZ -1336.883	Code rd
		Obs L1 Fixed	H.pr 0.017	V.pr 0.025
GPSQC1	NM	Min SVs 16	PDOP max	0.9
		Relative DOPs Yes	HDOP max	0.5
		Total GPS pos 6	VDOP max	0.8
		Monitor status Not monitored	RMS	11.3
		Horz SD	Vert SD	
		Start wk 1549 sec 232866.0	End wk 1549	sec 232871.0
GPSQC2	NM	Ttl satellites 16	Err Scale	0.0099999998
		VCV xx 0.0000173698	VCV xy	0.0000139747
		VCV xz -0.0000072999	VCV yy	0.000035775
		VCV yz -0.0000176111	VCV zz	0.0000288878
PT DGN	SO	Name 75046	To the Point	
GRID D	SO	Delta N -0.017	Delta E	0.005
		Delta Elv 0.018		
GPSVEC	SO	Point ID 23328	DX -6998.655	DY 2133.726
		Class Stake out	DZ -1340.575	Code rd
		Obs L1 Fixed	H.pr 0.017	V.pr 0.025
GPSQC1	NM	Min SVs 16	PDOP max	0.9
		Relative DOPs Yes	HDOP max	0.5
		Total GPS pos 6	VDOP max	0.8
		Monitor status Not monitored	RMS	12.0
		Horz SD	Vert SD	
		Start wk 1549 sec 232918.0	End wk 1549	sec 232923.0
GPSQC2	NM	Ttl satellites 16	Err Scale	0.0099999998
		VCV xx 0.0000172096	VCV xy	0.0000138993
		VCV xz -0.0000074254	VCV yy	0.000035421
		VCV yz -0.0000175917	VCV zz	0.0000287471
PT DGN	SO	Name 75047	To the Point	
GRID D	SO	Delta N 0.003	Delta E	0.015
		Delta Elv 0.016		
GPSVEC	SO	Point ID 23329	DX -7020.944	DY 2111.043
		Class Stake out	DZ -1376.671	Code rd
		Obs L1 Fixed	H.pr 0.016	V.pr 0.025
GPSQC1	NM	Min SVs 16	PDOP max	0.9
		Relative DOPs Yes	HDOP max	0.5
		Total GPS pos 6	VDOP max	0.8
		Monitor status Not monitored	RMS	16.6
		Horz SD	Vert SD	
		Start wk 1549 sec 232974.0	End wk 1549	sec 232979.0
GPSQC2	NM	Ttl satellites 16	Err Scale	0.0099999998
		VCV xx 0.0000171538	VCV xy	0.0000139136
		VCV xz -0.0000076088	VCV yy	0.0000352721
		VCV yz -0.0000176828	VCV zz	0.0000287858
PT DGN	SO	Name 75045	To the Point	
GRID D	SO	Delta N 0.000	Delta E	0.083
		Delta Elv 0.018		
GPSVEC	SO	Point ID 23330	DX -7037.548	DY 2121.462
		Class Stake out	DZ -1373.015	Code rd
		Obs L1 Fixed	H.pr 0.016	V.pr 0.025

GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	17.7
		Horz SD		Vert SD	
		Start wk 1549 sec	233011.0	End wk 1549 sec	233016.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.000017101	VCV xy	0.0000139124
		VCV xz	-0.0000077215	VCV yy	0.00003515
		VCV yz	-0.0000177289	VCV zz	0.0000287881
PT DGN	SO	Name	75044	To the Point	
GRID D	SO	Delta N	0.022	Delta E	0.026
		Delta Elv	0.022		
GPSVEC	SO	Point ID 23331	DX -7059.755	DY	2098.752
		Class Stake out	DZ -1409.107	Code rd	
		Obs L1 Fixed	H.pr 0.016	V.pr	0.025
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	17.8
		Horz SD		Vert SD	
		Start wk 1549 sec	233065.0	End wk 1549 sec	233070.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000172172	VCV xy	0.0000140333
		VCV xz	-0.0000079744	VCV yy	0.0000354713
		VCV yz	-0.0000179933	VCV zz	0.0000290988
PT DGN	SO	Name	75042	To the Point	
GRID D	SO	Delta N	0.004	Delta E	0.006
		Delta Elv	0.029		
GPSVEC	SO	Point ID 23332	DX -7043.155	DY	2088.347
		Class Stake out	DZ -1412.761	Code rd	
		Obs L1 Fixed	H.pr 0.016	V.pr	0.025
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	19.5
		Horz SD		Vert SD	
		Start wk 1549 sec	233133.0	End wk 1549 sec	233138.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000172432	VCV xy	0.0000141283
		VCV xz	-0.0000082356	VCV yy	0.0000355075
		VCV yz	-0.0000182076	VCV zz	0.0000293103
PT DGN	SO	Name	75043	To the Point	
GRID D	SO	Delta N	-0.028	Delta E	0.073
		Delta Elv	0.032		
GPSVEC	SO	Point ID 23333	DX -7065.352	DY	2065.572
		Class Stake out	DZ -1448.912	Code rd	
		Obs L1 Fixed	H.pr 0.016	V.pr	0.025
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	23.8
		Horz SD		Vert SD	
		Start wk 1549 sec	233248.0	End wk 1549 sec	233253.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000174033	VCV xy	0.0000143656
		VCV xz	-0.0000087344	VCV yy	0.0000359184
		VCV yz	-0.0000187105	VCV zz	0.0000298652
PT DGN	SO	Name	75041	To the Point	
GRID D	SO	Delta N	0.031	Delta E	0.015
		Delta Elv	0.029		
GPSVEC	SO	Point ID 23334	DX -7081.988	DY	2076.011
		Class Stake out	DZ -1445.210	Code rd	
		Obs L1 Fixed	H.pr 0.016	V.pr	0.025
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	16.5
		Horz SD		Vert SD	
		Start wk 1549 sec	233297.0	End wk 1549 sec	233302.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000174597	VCV xy	0.0000144485
		VCV xz	-0.000008941	VCV yy	0.000036126
		VCV yz	-0.000018927	VCV zz	0.0000300845
PT DGN	SO	Name	75040	To the Point	
GRID D	SO	Delta N	0.014	Delta E	-0.004
		Delta Elv	0.011		

```

GPSVEC SO Point ID 23335      DX -7097.545      DY 2060.178
        Class Stake out      DZ -1470.411      Code top/rd
        Obs L1 Fixed          H.pr 0.016      V.pr 0.025

GPSQC1 NM Min SVs          16                PDOP max 0.9
        Relative DOPs Yes      HDOP max 0.5
        Total GPS pos 6        VDOP max 0.8
        Monitor status Not monitored RMS 10.6
        Horz SD                Vert SD
        Start wk 1549 sec 233361.0 End wk 1549 sec 233366.0

GPSQC2 NM Ttl satellites 16                Err Scale 0.0099999998
        VCV xx 0.0000175284 VCV xy 0.0000145905
        VCV xz -0.0000092088 VCV yy 0.0000362715
        VCV yz -0.0000191889 VCV zz 0.0000303744

PT DGN SO Name              34052          To the Point

GRID D SO Delta N           0.060          Delta E 0.046
        Delta Elv          0.005

GPSVEC SO Point ID 23336      DX -7080.915      DY 2049.799
        Class Stake out      DZ -1474.084      Code rd
        Obs L1 Fixed          H.pr 0.016      V.pr 0.026

GPSQC1 NM Min SVs          16                PDOP max 0.9
        Relative DOPs Yes      HDOP max 0.5
        Total GPS pos 5        VDOP max 0.8
        Monitor status Not monitored RMS 14.8
        Horz SD                Vert SD
        Start wk 1549 sec 233435.0 End wk 1549 sec 233440.0

GPSQC2 NM Ttl satellites 16                Err Scale 0.0099999998
        VCV xx 0.0000176514 VCV xy 0.00001477
        VCV xz -0.0000095407 VCV yy 0.0000366128
        VCV yz -0.0000195618 VCV zz 0.0000307838

PT DGN SO Name              34060          To the Point

GRID D SO Delta N           0.019          Delta E 0.096
        Delta Elv          0.053

GPSVEC SO Point ID 23337      DX -6658.224      DY 2281.558
        Class Stake out      DZ -993.141      Code 9-15-09chk
        Obs L1 Fixed          H.pr 0.015      V.pr 0.023

GPSQC1 NM Min SVs          16                PDOP max 0.9
        Relative DOPs Yes      HDOP max 0.5
        Total GPS pos 6        VDOP max 0.7
        Monitor status Not monitored RMS 13.7
        Horz SD                Vert SD
        Start wk 1549 sec 233856.0 End wk 1549 sec 233861.0

GPSQC2 NM Ttl satellites 16                Err Scale 0.0099999998
        VCV xx 0.0000123444 VCV xy 0.0000089449
        VCV xz -0.000007917 VCV yy 0.0000290104
        VCV yz -0.0000171347 VCV zz 0.0000296827

PT DGN SO Name              23315          To the Point

GRID D SO Delta N           -0.026          Delta E -0.006
        Delta Elv          0.054

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/16/2009 Time 09:11:04

NOTE TS Time Date 09/18/2009 Time 06:42:23

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>

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 1549
        Init type On the fly                seconds 481378.0
        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 09/18/2009 Time 07:30:05

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NOTE TS Time Date 09/18/2009 Time 08:41:44

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/19/2009 Time 06:31:26

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 1549
Init type On the fly seconds 567120.0
Init counter 1 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>

LINE KI Line Line0009 Code <no text>
Start Pt 75144 End Pt 85132
St North 17553.176 End North 17641.460
St East 14389.506 End East 14413.593
St Elev 1766.947 End Elev 1797.447
Start Stn 0.000 Stn Int <null>

LINE KI Line Line0010 Code <no text>
Start Pt 75145 End Pt 85131
St North 17561.026 End North 17648.550
St East 14363.858 End East 14387.737
St Elev 1767.075 End Elev 1797.346
Start Stn 0.000 Stn Int <null>

LINE KI Line Line0011 Code <no text>
Start Pt 75146 End Pt 85130
St North 17565.521 End North 17653.521
St East 14349.170 End East 14369.608
St Elev 1767.172 End Elev 1797.275
Start Stn 0.000 Stn Int <null>

LINE KI Line Line0012 Code <no text>
Start Pt 75147 End Pt 85129
St North 17568.053 End North 17656.297
St East 14338.303 End East 14354.057
St Elev 1767.194 End Elev 1797.281
Start Stn 0.000 Stn Int <null>

LINE KI Line Line0013 Code <no text>
Start Pt 75148 End Pt 85128
St North 17569.466 End North 17659.216
St East 14329.196 End East 14337.693
St Elev 1767.209 End Elev 1797.287
Start Stn 0.000 Stn Int <null>

LINE KI Line Line0014 Code <no text>
Start Pt 85127 End Pt 75149
St North 17659.646 End North 17569.933
St East 14327.891 End East 14323.994
St Elev 1797.284 End Elev 1767.270
Start Stn 0.000 Stn Int <null>

LINE KI Line Line0015 Code <no text>
Start Pt 75150 End Pt 85126
St North 17570.252 End North 17660.170
St East 14316.782 End East 14315.852
St Elev 1767.261 End Elev 1797.281
Start Stn 0.000 Stn Int <null>

LINE KI Line Line0016 Code <no text>
Start Pt 75151 End Pt 85125
St North 17570.035 End North 17659.746
St East 14307.833 End East 14301.431
St Elev 1767.343 End Elev 1797.299
Start Stn 0.000 Stn Int <null>

LINE KI Line Line0017 Code <no text>
Start Pt 75152 End Pt 85124
St North 17569.463 End North 17658.119
St East 14301.129 End East 14285.806
St Elev 1767.342 End Elev 1797.363
Start Stn 0.000 Stn Int <null>

LINE	KI	Line	Line0018	Code	<no text>
		Start Pt	85123	End Pt	75153
		St North	17654.945	End North	17567.510
		St East	14265.630	End East	14288.839
		St Elev	1797.488	End Elev	1767.383
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0019	Code	<no text>
		Start Pt	75154	End Pt	85122
		St North	17562.437	End North	17646.801
		St East	14273.928	End East	14242.960
		St Elev	1767.424	End Elev	1797.376
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0020	Code	<no text>
		Start Pt	75155	End Pt	85121
		St North	17555.421	End North	17631.391
		St East	14259.929	End East	14212.029
		St Elev	1767.480	End Elev	1797.366
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0021	Code	<no text>
		Start Pt	75156	End Pt	85120
		St North	17546.565	End North	17615.834
		St East	14247.016	End East	14189.477
		St Elev	1767.531	End Elev	1797.500
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0022	Code	<no text>
		Start Pt	75157	End Pt	85119
		St North	17536.033	End North	17601.795
		St East	14235.430	End East	14173.461
		St Elev	1767.575	End Elev	1797.693
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0023	Code	<no text>
		Start Pt	75158	End Pt	85118
		St North	17524.021	End North	17577.071
		St East	14225.386	End East	14150.629
		St Elev	1767.625	End Elev	1798.105
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0024	Code	<no text>
		Start Pt	75159	End Pt	85117
		St North	17510.525	End North	17556.742
		St East	14216.969	End East	14137.596
		St Elev	1767.675	End Elev	1798.319
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0025	Code	<no text>
		Start Pt	75160	End Pt	85116
		St North	17496.476	End North	17532.717
		St East	14210.641	End East	14125.224
		St Elev	1767.726	End Elev	1798.651
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0026	Code	<no text>
		Start Pt	75161	End Pt	85115
		St North	17481.457	End North	17501.212
		St East	14206.215	End East	14113.749
		St Elev	1767.776	End Elev	1799.222
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0027	Code	<no text>
		Start Pt	75162	End Pt	85114
		St North	17465.823	End North	17467.114
		St East	14203.873	End East	14107.473
		St Elev	1767.834	End Elev	1800.015
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0028	Code	<no text>
		Start Pt	75113	End Pt	75163
		St North	17443.046	End North	17450.318
		St East	14105.468	End East	14203.666
		St Elev	1800.644	End Elev	1767.877
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0029	Code	<no text>
		Start Pt	75164	End Pt	75111
		St North	17435.215	End North	17417.701
		St East	14205.537	End East	14106.916
		St Elev	1767.929	End Elev	1801.409
		Start Stn	0.000	Stn Int	<null>
LINE	KI	Line	Line0030	Code	<no text>
		Start Pt	75165	End Pt	75110
		St North	17411.953	End North	17391.415
		St East	14210.315	End East	14109.716
		St Elev	1768.014	End Elev	1802.239
		Start Stn	0.000	Stn Int	<null>

NOTE TS Time Date 09/19/2009 Time 07:34:54

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/19/2009 Time 08:51:23

NOTE TS Time Date 09/21/2009 Time 06:50:02

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

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SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI Antenna ht 0.000 Measurement True

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

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

NOTE NM Receiver firmware version=0.000

GPSANT KI Antenna ht 4.245 Measurement True

GPSREF KI Reference 44501

INIT KI Init event Gained Week 1550
Init type On the fly seconds 136243.0
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 09/21/2009 Time 07:27:59

SURVEY EVENTKISurvey event Communications error

NOTE TS Time Date 09/21/2009 Time 08:19:35

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/22/2009 Time 06:45:19

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 Measurement True

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

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

NOTE NM Receiver firmware version=0.000

GPSANT KI Antenna ht 4.245 Measurement True

GPSREF KI Reference 44501

INIT KI Init event Gained Week 1550
Init type On the fly seconds 222348.0
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 09/22/2009 Time 07:43:27

SURVEY EVENTKISurvey event Communications error

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/23/2009 Time 06:01:17

NOTE NM Following data imported from 9-19-09 Waste Points.csv

NOTE TS Time Date 09/23/2009 Time 06:36:01

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY KI Elev mask 10 PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI Antenna ht 0.000 Measurement True

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

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

NOTE NM Receiver firmware version=0.000

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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   308188.0
      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 09/23/2009 Time 07:14:58

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/23/2009 Time 08:24:25

NOTE TS Time Date 09/24/2009 Time 07:09:25

SURVEY KI Elev mask 10                          PDOP mask 6.0
SURVEY KI Elev mask 10                          PDOP mask 6.0
SURVEY KI Elev mask 10                          PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI Antenna ht 0.000                      Measuremt True
GPSPOS FD Point ID 44501      Lat 36°03'10.29917"N Lng 114°59'31.59480"W
      Class Control      Hgt 1645.648      Code 1_30_09_BASE
      Obs User Input      H.pr <null>      V.pr <null>

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

NOTE NM Receiver firmware version=0.000

GPSANT KI Antenna ht 4.245                      Measuremt True
GPSREF KI Reference 44501

INIT KI Init event      Gained                      Week      1550
      Init type        On the fly                   seconds   396600.0
      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 08:42:19

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/25/2009 Time 07:57:23

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>

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   485875.0
      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 08:40:22

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/26/2009 Time 07:05:25

SURVEY KI Elev mask 10                          PDOP mask 6.0
SURVEY KI Elev mask 10                          PDOP mask 6.0
SURVEY KI Elev mask 10                          PDOP mask 6.0

SURVEY EVENTKISurvey event Rover survey started

GPSANT KI Antenna ht 0.000                      Measuremt True

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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		
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	569160.0
		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 23338	DX -6658.262	DY 2281.506
		Class Stake out	DZ -993.100	Code 9-26-09chk
		Obs L1 Fixed	H.pr 0.017	V.pr 0.030
GPSQC1	NM	Min SVs 15	PDOP max	1.1
		Relative DOPs Yes	HDOP max	0.5
		Total GPS pos 6	VDOP max	0.9
		Monitor status Not monitored	RMS	8.8
		Horz SD	Vert SD	
		Start wk 1550 sec 569203.0	End wk 1550	sec 569208.0
GPSQC2	NM	Ttl satellites 15	Err Scale	0.0099999998
		VCV xx 0.0000174698	VCV xy	0.0000205053
		VCV xz -0.0000066471	VCV yy	0.0000691316
		VCV yz -0.0000253653	VCV zz	0.0000240972
PT DGN	SO	Name 23315	To the Point	
GRID D	SO	Delta N -0.021	Delta E	0.006
		Delta Elv -0.021		
GPSVEC	SO	Point ID 23339	DX -6946.581	DY 1549.011
		Class Stake out	DZ -1971.646	Code top
		Obs L1 Fixed	H.pr 0.018	V.pr 0.029
GPSQC1	NM	Min SVs 16	PDOP max	1.1
		Relative DOPs Yes	HDOP max	0.6
		Total GPS pos 6	VDOP max	0.9
		Monitor status Not monitored	RMS	17.8
		Horz SD	Vert SD	
		Start wk 1550 sec 569681.0	End wk 1550	sec 569686.0
GPSQC2	NM	Ttl satellites 16	Err Scale	0.0099999998
		VCV xx 0.0000177254	VCV xy	0.0000204846
		VCV xz -0.0000059968	VCV yy	0.0000660138
		VCV yz -0.0000235987	VCV zz	0.0000239409
PT DGN	SO	Name 34030	To the Point	
GRID D	SO	Delta N -0.002	Delta E	-0.014
		Delta Elv 0.038		
GPSVEC	SO	Point ID 23340	DX -6990.186	DY 1564.809
		Class Stake out	DZ -1977.694	Code top
		Obs L1 Fixed	H.pr 0.018	V.pr 0.029
GPSQC1	NM	Min SVs 16	PDOP max	1.0
		Relative DOPs Yes	HDOP max	0.6
		Total GPS pos 6	VDOP max	0.9
		Monitor status Not monitored	RMS	12.0
		Horz SD	Vert SD	
		Start wk 1550 sec 569744.0	End wk 1550	sec 569749.0
GPSQC2	NM	Ttl satellites 16	Err Scale	0.0099999998
		VCV xx 0.000018151	VCV xy	0.0000206038
		VCV xz -0.000005592	VCV yy	0.000064251
		VCV yz -0.0000218943	VCV zz	0.0000236785
PT DGN	SO	Name 34031	To the Point	
GRID D	SO	Delta N 0.013	Delta E	-0.051
		Delta Elv 0.027		
GPSVEC	SO	Point ID 23341	DX -6999.065	DY 1568.625
		Class Stake out	DZ -1978.354	Code top
		Obs L1 Fixed	H.pr 0.018	V.pr 0.029

GPSQC1	NM	Min SVs	17	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	7.1
		Horz SD		Vert SD	
		Start wk 1550 sec 569813.0		End wk 1550 sec 569818.0	
GPSQC2	NM	Ttl satellites	17	Err Scale	0.0099999998
		VCV xx	0.0000181044	VCV xy	0.000020468
		VCV xz	-0.0000049138	VCV yy	0.000062158
		VCV yz	-0.0000223448	VCV zz	0.0000238352
PT DGN	SO	Name	34067	To the Point	
GRID D	SO	Delta N	0.056	Delta E	-0.003
		Delta Elv	0.039		
GPSVEC	SO	Point ID 23342	DX -7038.529	DY	1583.968
		Class Stake out	DZ -1979.786	Code top	
		Obs L1 Fixed	H.pr 0.018	V.pr 0.027	
GPSQC1	NM	Min SVs	17	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	13.2
		Horz SD		Vert SD	
		Start wk 1550 sec 569862.0		End wk 1550 sec 569867.0	
GPSQC2	NM	Ttl satellites	17	Err Scale	0.0099999998
		VCV xx	0.00001564	VCV xy	0.0000175949
		VCV xz	-0.0000036118	VCV yy	0.0000594498
		VCV yz	-0.0000189044	VCV zz	0.0000219987
PT DGN	SO	Name	34032	To the Point	
GRID D	SO	Delta N	0.015	Delta E	-0.025
		Delta Elv	0.054		
GPSVEC	SO	Point ID 23343	DX -7103.792	DY	1609.275
		Class Stake out	DZ -1984.061	Code top	
		Obs L1 Fixed	H.pr 0.018	V.pr 0.028	
GPSQC1	NM	Min SVs	17	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	5	VDOP max	0.9
		Monitor status	Not monitored	RMS	15.0
		Horz SD		Vert SD	
		Start wk 1550 sec 569931.0		End wk 1550 sec 569936.0	
GPSQC2	NM	Ttl satellites	17	Err Scale	0.0099999998
		VCV xx	0.0000172473	VCV xy	0.0000191829
		VCV xz	-0.0000042055	VCV yy	0.0000621064
		VCV yz	-0.0000201803	VCV zz	0.0000230898
PT DGN	SO	Name	34033	To the Point	
GRID D	SO	Delta N	-0.031	Delta E	0.019
		Delta Elv	0.022		
GPSVEC	SO	Point ID 23344	DX -7153.064	DY	1627.745
		Class Stake out	DZ -1989.201	Code top	
		Obs L1 Fixed	H.pr 0.018	V.pr 0.028	
GPSQC1	NM	Min SVs	17	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	18.2
		Horz SD		Vert SD	
		Start wk 1550 sec 570007.0		End wk 1550 sec 570012.0	
GPSQC2	NM	Ttl satellites	17	Err Scale	0.0099999998
		VCV xx	0.0000177429	VCV xy	0.0000194942
		VCV xz	-0.0000043424	VCV yy	0.0000623145
		VCV yz	-0.0000204459	VCV zz	0.0000235034
PT DGN	SO	Name	34034	To the Point	
GRID D	SO	Delta N	-0.056	Delta E	-0.031
		Delta Elv	0.030		
GPSVEC	SO	Point ID 23345	DX -7204.118	DY	1646.484
		Class Stake out	DZ -1995.638	Code top	
		Obs L1 Fixed	H.pr 0.019	V.pr 0.029	
GPSQC1	NM	Min SVs	11	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	5	VDOP max	0.9
		Monitor status	Not monitored	RMS	19.7
		Horz SD		Vert SD	
		Start wk 1550 sec 570161.0		End wk 1550 sec 570170.0	
GPSQC2	NM	Ttl satellites	17	Err Scale	0.0099999998
		VCV xx	0.0000182467	VCV xy	0.0000200206
		VCV xz	-0.000003762	VCV yy	0.0000665968
		VCV yz	-0.0000223452	VCV zz	0.0000252008
PT DGN	SO	Name	34035	To the Point	
GRID D	SO	Delta N	-0.054	Delta E	0.005
		Delta Elv	0.029		

GPSVEC	SO	Point ID 23346	DX	-7259.877	DY	1666.785
		Class Stake out	DZ	-2003.122	Code top	
		Obs L1 Fixed	H.pr	0.019	V.pr	0.029
GPSQC1	NM	Min SVs 16		PDOP max	1.1	
		Relative DOPs Yes		HDOP max	0.6	
		Total GPS pos 5		VDOP max	0.9	
		Monitor status Not monitored		RMS	14.4	
		Horz SD		Vert SD		
		Start wk 1550 sec 570277.0		End wk 1550 sec 570282.0		
GPSQC2	NM	Ttl satellites 16		Err Scale	0.0099999998	
		VCV xx 0.0000181863		VCV xy	0.0000197289	
		VCV xz -0.0000040871		VCV yy	0.0000673917	
		VCV yz -0.0000239116		VCV zz	0.0000268722	
PT DGN	SO	Name 34036		To the Point		
GRID D	SO	Delta N -0.057		Delta E	-0.019	
		Delta Elv 0.023				
GPSVEC	SO	Point ID 23347	DX	-7318.926	DY	1688.240
		Class Stake out	DZ	-2011.150	Code top	
		Obs L1 Fixed	H.pr	0.019	V.pr	0.028
GPSQC1	NM	Min SVs 16		PDOP max	1.1	
		Relative DOPs Yes		HDOP max	0.6	
		Total GPS pos 5		VDOP max	0.9	
		Monitor status Not monitored		RMS	12.5	
		Horz SD		Vert SD		
		Start wk 1550 sec 570340.0		End wk 1550 sec 570347.0		
GPSQC2	NM	Ttl satellites 16		Err Scale	0.0099999998	
		VCV xx 0.000018076		VCV xy	0.0000194231	
		VCV xz -0.000003926		VCV yy	0.0000629078	
		VCV yz -0.0000213661		VCV zz	0.0000255004	
PT DGN	SO	Name 34037		To the Point		
GRID D	SO	Delta N -0.027		Delta E	-0.011	
		Delta Elv 0.017				
GPSVEC	SO	Point ID 23348	DX	-7342.410	DY	1696.922
		Class Stake out	DZ	-2013.898	Code top	
		Obs L1 Fixed	H.pr	0.019	V.pr	0.029
GPSQC1	NM	Min SVs 11		PDOP max	1.1	
		Relative DOPs Yes		HDOP max	0.6	
		Total GPS pos 5		VDOP max	0.9	
		Monitor status Not monitored		RMS	16.2	
		Horz SD		Vert SD		
		Start wk 1550 sec 570395.0		End wk 1550 sec 570400.0		
GPSQC2	NM	Ttl satellites 16		Err Scale	0.0099999998	
		VCV xx 0.0000183065		VCV xy	0.0000196897	
		VCV xz -0.0000037742		VCV yy	0.0000654514	
		VCV yz -0.0000227301		VCV zz	0.0000267504	
PT DGN	SO	Name 34068		To the Point		
GRID D	SO	Delta N -0.011		Delta E	-0.024	
		Delta Elv 0.013				
GPSVEC	SO	Point ID 23349	DX	-7373.641	DY	1708.618
		Class Stake out	DZ	-2017.170	Code top	
		Obs L1 Fixed	H.pr	0.019	V.pr	0.029
GPSQC1	NM	Min SVs 16		PDOP max	1.1	
		Relative DOPs Yes		HDOP max	0.6	
		Total GPS pos 6		VDOP max	0.9	
		Monitor status Not monitored		RMS	26.1	
		Horz SD		Vert SD		
		Start wk 1550 sec 570490.0		End wk 1550 sec 570495.0		
GPSQC2	NM	Ttl satellites 16		Err Scale	0.0099999998	
		VCV xx 0.0000182652		VCV xy	0.0000194635	
		VCV xz -0.0000035568		VCV yy	0.0000641202	
		VCV yz -0.0000220816		VCV zz	0.0000266637	
PT DGN	SO	Name 34038		To the Point		
GRID D	SO	Delta N -0.022		Delta E	-0.001	
		Delta Elv 0.010				
GPSVEC	SO	Point ID 23350	DX	-7424.517	DY	1727.883
		Class Stake out	DZ	-2021.964	Code top	
		Obs L1 Fixed	H.pr	0.019	V.pr	0.029
GPSQC1	NM	Min SVs 16		PDOP max	1.1	
		Relative DOPs Yes		HDOP max	0.6	
		Total GPS pos 6		VDOP max	0.9	
		Monitor status Not monitored		RMS	19.7	
		Horz SD		Vert SD		
		Start wk 1550 sec 570553.0		End wk 1550 sec 570559.0		
GPSQC2	NM	Ttl satellites 16		Err Scale	0.0099999998	
		VCV xx 0.0000184757		VCV xy	0.0000196219	
		VCV xz -0.0000034037		VCV yy	0.0000663839	
		VCV yz -0.0000233752		VCV zz	0.0000278779	
PT DGN	SO	Name 34039		To the Point		

GRID D	SO	Delta N	-0.055	Delta E	0.001
		Delta Elv	0.026		

GPSVEC	SO	Point ID 23351	DX -7466.171	DY 1743.688
		Class Stake out	DZ -2025.854	Code top
		Obs L1 Fixed	H.pr 0.019	V.pr 0.029

GPSQC1	NM	Min SVs	11	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	18.9
		Horz SD		Vert SD	
		Start wk 1550 sec 570672.0		End wk 1550 sec 570680.0	

GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000183839	VCV xy	0.0000192897
		VCV xz	-0.0000030835	VCV yy	0.0000667527
		VCV yz	-0.0000237116	VCV zz	0.0000280675

PT DGN	SO	Name	34040	To the Point
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GRID D	SO	Delta N	-0.017	Delta E	0.052
		Delta Elv	0.073		

SURVEY EVENTKISurvey event Communications error

GPSVEC	SO	Point ID 23352	DX -7426.680	DY 1771.604
		Class Stake out	DZ -1970.135	Code top
		Obs L1 Fixed	H.pr 0.020	V.pr 0.029

GPSQC1	NM	Min SVs	15	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	5	VDOP max	0.9
		Monitor status	Not monitored	RMS	11.9
		Horz SD		Vert SD	
		Start wk 1550 sec 570785.0		End wk 1550 sec 570794.0	

GPSQC2	NM	Ttl satellites	15	Err Scale	0.0099999998
		VCV xx	0.0000187369	VCV xy	0.0000195575
		VCV xz	-0.0000025658	VCV yy	0.0000674557
		VCV yz	-0.0000243116	VCV zz	0.0000303797

PT DGN	SO	Name	34041	To the Point
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GRID D	SO	Delta N	0.006	Delta E	-0.020
		Delta Elv	0.012		

GPSVEC	SO	Point ID 23353	DX -7401.014	DY 1790.318
		Class Stake out	DZ -1933.622	Code top
		Obs L1 Fixed	H.pr 0.020	V.pr 0.030

GPSQC1	NM	Min SVs	10	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	5	VDOP max	0.9
		Monitor status	Not monitored	RMS	13.0
		Horz SD		Vert SD	
		Start wk 1550 sec 570883.0		End wk 1550 sec 570889.0	

GPSQC2	NM	Ttl satellites	15	Err Scale	0.0099999998
		VCV xx	0.0000185583	VCV xy	0.0000192214
		VCV xz	-0.0000025256	VCV yy	0.0000673052
		VCV yz	-0.0000250157	VCV zz	0.0000314788

PT DGN	SO	Name	34042	To the Point
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GRID D	SO	Delta N	0.019	Delta E	-0.002
		Delta Elv	0.014		

NOTE TS Time Date 09/26/2009 Time 07:37:21

GPSVEC	SO	Point ID 23354	DX -7368.192	DY 1814.291
		Class Stake out	DZ -1886.921	Code top
		Obs L1 Fixed	H.pr 0.020	V.pr 0.030

GPSQC1	NM	Min SVs	15	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	14.4
		Horz SD		Vert SD	
		Start wk 1550 sec 571047.0		End wk 1550 sec 571053.0	

GPSQC2	NM	Ttl satellites	15	Err Scale	0.0099999998
		VCV xx	0.0000186137	VCV xy	0.0000190477
		VCV xz	-0.0000021412	VCV yy	0.0000669605
		VCV yz	-0.0000249871	VCV zz	0.0000318814

PT DGN	SO	Name	34043	To the Point
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GRID D	SO	Delta N	0.021	Delta E	0.042
		Delta Elv	0.042		

GPSVEC	SO	Point ID 23355	DX -7326.523	DY 1841.647
		Class Stake out	DZ -1830.466	Code top
		Obs L1 Fixed	H.pr 0.020	V.pr 0.030

GPSQC1	NM	Min SVs	15	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	17.4
		Horz SD		Vert SD	
		Start wk 1550 sec 571112.0		End wk 1550 sec 571117.0	

GPSQC2	NM	Ttl satellites 15		Err Scale 0.0099999998
		VCV xx 0.0000186104		VCV xy 0.0000189549
		VCV xz -0.0000020317		VCV yy 0.0000667908
		VCV yz -0.0000249461		VCV zz 0.0000318899
PT DGN	SO	Name 34044		To the Point
GRID D	SO	Delta N -0.010	Delta E 0.021	
		Delta Elv 0.022		
GPSVEC	SO	Point ID 23356	DX -7296.914	DY 1860.343
		Class Stake out	DZ -1791.077	Code top
		Obs L1 Fixed	H.pr 0.020	V.pr 0.029
GPSQC1	NM	Min SVs 15	PDOP max 1.1	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 0.9	
		Monitor status Not monitored	RMS 22.9	
		Horz SD	Vert SD	
		Start wk 1550 sec 571185.0	End wk 1550 sec 571190.0	
GPSQC2	NM	Ttl satellites 15	Err Scale 0.0099999998	
		VCV xx 0.0000186486	VCV xy 0.0000188936	
		VCV xz -0.0000018259	VCV yy 0.0000664891	
		VCV yz -0.000024735	VCV zz 0.0000318533	
PT DGN	SO	Name 34045		To the Point
GRID D	SO	Delta N 0.027	Delta E -0.022	
		Delta Elv 0.035		
GPSVEC	SO	Point ID 23357	DX -7283.299	DY 1869.410
		Class Stake out	DZ -1773.199	Code top/rd
		Obs L1 Fixed	H.pr 0.020	V.pr 0.029
GPSQC1	NM	Min SVs 10	PDOP max 1.1	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 0.9	
		Monitor status Not monitored	RMS 19.3	
		Horz SD	Vert SD	
		Start wk 1550 sec 571240.0	End wk 1550 sec 571245.0	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0099999998	
		VCV xx 0.0000181091	VCV xy 0.0000181463	
		VCV xz -0.0000010139	VCV yy 0.0000649263	
		VCV yz -0.0000234496	VCV zz 0.0000302922	
PT DGN	SO	Name 34046		To the Point
GRID D	SO	Delta N 0.011	Delta E -0.031	
		Delta Elv 0.016		
GPSVEC	SO	Point ID 23358	DX -7254.954	DY 1899.274
		Class Stake out	DZ -1726.150	Code top/rd
		Obs L1 Fixed	H.pr 0.020	V.pr 0.028
GPSQC1	NM	Min SVs 16	PDOP max 1.1	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 0.9	
		Monitor status Not monitored	RMS 33.5	
		Horz SD	Vert SD	
		Start wk 1550 sec 572089.0	End wk 1550 sec 572094.0	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0099999998	
		VCV xx 0.0000197301	VCV xy 0.0000187232	
		VCV xz 0.0000011008	VCV yy 0.0000618411	
		VCV yz -0.0000207142	VCV zz 0.0000293248	
PT DGN	SO	Name 34047		To the Point
GRID D	SO	Delta N -0.008	Delta E 0.006	
		Delta Elv 0.047		
GPSVEC	SO	Point ID 23359	DX -7220.699	DY 1934.291
		Class Stake out	DZ -1670.518	Code top/rd
		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 16.6	
		Horz SD	Vert SD	
		Start wk 1550 sec 572211.0	End wk 1550 sec 572216.0	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0099999998	
		VCV xx 0.0000203578	VCV xy 0.0000192177	
		VCV xz 0.0000008744	VCV yy 0.0000627231	
		VCV yz -0.0000214341	VCV zz 0.0000312243	
PT DGN	SO	Name 34048		To the Point
GRID D	SO	Delta N -0.028	Delta E -0.033	
		Delta Elv 0.044		
GPSVEC	SO	Point ID 23360	DX -7191.880	DY 1963.765
		Class Stake out	DZ -1623.643	Code top/rd
		Obs L1 Fixed	H.pr 0.021	V.pr 0.028

GPSQC1	NM	Min SVs	16	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	15.7
		Horz SD		Vert SD	
		Start wk 1550 sec 572303.0		End wk 1550 sec 572308.0	
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000202932	VCV xy	0.0000190803
		VCV xz	0.0000008399	VCV yy	0.0000621811
		VCV yz	-0.0000214108	VCV zz	0.0000312641
PT DGN	SO	Name	34049	To the Point	
GRID D	SO	Delta N	-0.031	Delta E	-0.015
		Delta Elv	0.013		
GPSVEC	SO	Point ID 23361	DX -7159.877	DY	1996.495
		Class Stake out	DZ -1571.668	Code top/rd	
		Obs L1 Fixed	H.pr 0.020	V.pr 0.027	
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	13.6
		Horz SD		Vert SD	
		Start wk 1550 sec 572373.0		End wk 1550 sec 572379.0	
GPSQC2	NM	Ttl satellites	10	Err Scale	0.0099999998
		VCV xx	0.0000185038	VCV xy	0.0000165814
		VCV xz	0.0000005545	VCV yy	0.0000563086
		VCV yz	-0.0000185481	VCV zz	0.0000267436
PT DGN	SO	Name	34050	To the Point	
GRID D	SO	Delta N	-0.056	Delta E	-0.006
		Delta Elv	0.033		
GPSVEC	SO	Point ID 23362	DX -7129.840	DY	2027.208
		Class Stake out	DZ -1522.889	Code top/rd	
		Obs L1 Fixed	H.pr 0.019	V.pr 0.026	
GPSQC1	NM	Min SVs	16	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	14.6
		Horz SD		Vert SD	
		Start wk 1550 sec 572426.0		End wk 1550 sec 572431.0	
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0097469296
		VCV xx	0.0000194207	VCV xy	0.0000181232
		VCV xz	0.0000002863	VCV yy	0.000058483
		VCV yz	-0.0000186549	VCV zz	0.0000263351
PT DGN	SO	Name	34051	To the Point	
GRID D	SO	Delta N	-0.001	Delta E	0.021
		Delta Elv	0.047		
GPSVEC	SO	Point ID 23363	DX -7113.178	DY	2016.722
		Class Stake out	DZ -1526.529	Code rd	
		Obs L1 Fixed	H.pr 0.020	V.pr 0.028	
GPSQC1	NM	Min SVs	16	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	14.7
		Horz SD		Vert SD	
		Start wk 1550 sec 572482.0		End wk 1550 sec 572487.0	
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000199224	VCV xy	0.0000184943
		VCV xz	0.0000007611	VCV yy	0.0000598193
		VCV yz	-0.0000199694	VCV zz	0.000029164
PT DGN	SO	Name	34059	To the Point	
GRID D	SO	Delta N	-0.022	Delta E	-0.003
		Delta Elv	0.005		
NOTE	TS	Time Date 09/26/2009 Time 08:10:47			
GPSVEC	SO	Point ID 23364	DX -7143.223	DY	1985.991
		Class Stake out	DZ -1575.361	Code rd	
		Obs L1 Fixed	H.pr 0.021	V.pr 0.029	
GPSQC1	NM	Min SVs	15	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	21.0
		Horz SD		Vert SD	
		Start wk 1550 sec 573055.0		End wk 1550 sec 573060.0	
GPSQC2	NM	Ttl satellites	15	Err Scale	0.0099999998
		VCV xx	0.0000208839	VCV xy	0.0000185442
		VCV xz	0.0000015611	VCV yy	0.0000622332
		VCV yz	-0.0000240324	VCV zz	0.0000363622
PT DGN	SO	Name	34058	To the Point	
GRID D	SO	Delta N	-0.017	Delta E	-0.030
		Delta Elv	0.008		

GPSVEC	SO	Point ID 23365	DX -7238.281	DY 1888.818
		Class Stake out	DZ -1729.752	Code rd
		Obs L1 Fixed	H.pr 0.017	V.pr 0.025
GPSQC1	NM	Min SVs 10	PDOP max 0.9	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 5	VDOP max 0.8	
		Monitor status Not monitored	RMS 15.9	
		Horz SD	Vert SD	
		Start wk 1550 sec 574705.0	End wk 1550 sec 574710.0	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0099999998	
		VCV xx 0.0000182707	VCV xy 0.000016339	
		VCV xz -0.0000046562	VCV yy 0.0000440741	
		VCV yz -0.0000155803	VCV zz 0.0000229335	
PT DGN	SO	Name 34055	To the Point	
GRID D	SO	Delta N -0.061	Delta E -0.012	
		Delta Elv 0.010		
NOTE	TS	Time Date 09/26/2009 Time 08:41:39		
GPSVEC	SO	Point ID 23366	DX -7235.105	DY 1841.853
		Class Stake out	DZ -1782.438	Code <no text>
		Obs L1 Fixed	H.pr 0.018	V.pr 0.025
GPSQC1	NM	Min SVs 16	PDOP max 1.0	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 0.8	
		Monitor status Not monitored	RMS 16.1	
		Horz SD	Vert SD	
		Start wk 1550 sec 574907.0	End wk 1550 sec 574912.0	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0099999998	
		VCV xx 0.0000185698	VCV xy 0.0000158276	
		VCV xz -0.0000043328	VCV yy 0.0000449108	
		VCV yz -0.000017619	VCV zz 0.0000262392	
PT DGN	SO	Name 50124	To the Point	
GRID D	SO	Delta N -0.032	Delta E -0.005	
		Delta Elv 0.034		
GPSVEC	SO	Point ID 23367	DX -7261.814	DY 1821.593
		Class Stake out	DZ -1820.614	Code <no text>
		Obs L1 Fixed	H.pr 0.018	V.pr 0.025
GPSQC1	NM	Min SVs 16	PDOP max 1.0	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 0.8	
		Monitor status Not monitored	RMS 16.6	
		Horz SD	Vert SD	
		Start wk 1550 sec 574994.0	End wk 1550 sec 574999.0	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0099999998	
		VCV xx 0.0000184519	VCV xy 0.0000157656	
		VCV xz -0.0000047911	VCV yy 0.0000446381	
		VCV yz -0.0000176244	VCV zz 0.0000258509	
PT DGN	SO	Name 50125	To the Point	
GRID D	SO	Delta N -0.053	Delta E 0.005	
		Delta Elv 0.015		
GPSVEC	SO	Point ID 23368	DX -7288.391	DY 1801.510
		Class Stake out	DZ -1859.020	Code <no text>
		Obs L1 Fixed	H.pr 0.018	V.pr 0.025
GPSQC1	NM	Min SVs 16	PDOP max 1.0	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 5	VDOP max 0.8	
		Monitor status Not monitored	RMS 18.8	
		Horz SD	Vert SD	
		Start wk 1550 sec 575136.0	End wk 1550 sec 575141.0	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0099999998	
		VCV xx 0.0000182234	VCV xy 0.0000153947	
		VCV xz -0.0000049868	VCV yy 0.0000437846	
		VCV yz -0.0000178679	VCV zz 0.0000266169	
PT DGN	SO	Name 50126	To the Point	
GRID D	SO	Delta N -0.016	Delta E -0.030	
		Delta Elv 0.029		
GPSVEC	SO	Point ID 23369	DX -7314.907	DY 1781.781
		Class Stake out	DZ -1897.620	Code <no text>
		Obs L1 Fixed	H.pr 0.017	V.pr 0.025
GPSQC1	NM	Min SVs 16	PDOP max 1.0	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 0.8	
		Monitor status Not monitored	RMS 12.4	
		Horz SD	Vert SD	
		Start wk 1550 sec 575188.0	End wk 1550 sec 575193.0	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0099999998	
		VCV xx 0.0000181618	VCV xy 0.0000154033	
		VCV xz -0.0000053185	VCV yy 0.0000435636	
		VCV yz -0.0000177586	VCV zz 0.0000261418	

PT DGN	SO	Name	50127	To the Point	
GRID D	SO	Delta N	-0.025	Delta E	0.030
		Delta Elv	0.029		
GPSVEC	SO	Point ID 23370	DX -7341.560	DY	1761.646
		Class Stake out	DZ -1936.026	Code	<no text>
		Obs L1 Fixed	H.pr 0.018	V.pr	0.026
GPSQC1	NM	Min SVs	16	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	26.9
		Horz SD		Vert SD	
		Start wk 1550 sec	575285.0	End wk 1550 sec	575290.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000183757	VCV xy	0.0000154681
		VCV xz	-0.0000055741	VCV yy	0.0000439264
		VCV yz	-0.0000183741	VCV zz	0.0000273722
PT DGN	SO	Name	50167	To the Point	
GRID D	SO	Delta N	0.059	Delta E	0.041
		Delta Elv	0.011		
GPSVEC	SO	Point ID 23371	DX -7368.099	DY	1741.637
		Class Stake out	DZ -1974.399	Code	<no text>
		Obs L1 Fixed	H.pr 0.017	V.pr	0.024
GPSQC1	NM	Min SVs	15	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	13.0
		Horz SD		Vert SD	
		Start wk 1550 sec	575383.0	End wk 1550 sec	575388.0
GPSQC2	NM	Ttl satellites	15	Err Scale	0.0099999998
		VCV xx	0.0000176661	VCV xy	0.0000156337
		VCV xz	-0.0000065484	VCV yy	0.0000378114
		VCV yz	-0.0000161466	VCV zz	0.0000256563
PT DGN	SO	Name	50166	To the Point	
GRID D	SO	Delta N	0.020	Delta E	0.004
		Delta Elv	0.027		
GPSVEC	SO	Point ID 23372	DX -7319.897	DY	1714.287
		Class Stake out	DZ -1981.155	Code	main fl
		Obs L1 Fixed	H.pr 0.017	V.pr	0.026
GPSQC1	NM	Min SVs	15	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	12.9
		Horz SD		Vert SD	
		Start wk 1550 sec	575487.0	End wk 1550 sec	575492.0
GPSQC2	NM	Ttl satellites	15	Err Scale	0.0099999998
		VCV xx	0.0000180694	VCV xy	0.0000152706
		VCV xz	-0.000006246	VCV yy	0.000042229
		VCV yz	-0.0000186131	VCV zz	0.000028506
PT DGN	SO	Name	50164	To the Point	
GRID D	SO	Delta N	0.005	Delta E	0.022
		Delta Elv	0.012		
GPSVEC	SO	Point ID 23373	DX -7294.261	DY	1735.365
		Class Stake out	DZ -1942.239	Code	main fl
		Obs L1 Fixed	H.pr 0.017	V.pr	0.025
GPSQC1	NM	Min SVs	11	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	12.0
		Horz SD		Vert SD	
		Start wk 1550 sec	575590.0	End wk 1550 sec	575598.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000178182	VCV xy	0.0000142502
		VCV xz	-0.0000061822	VCV yy	0.0000392653
		VCV yz	-0.0000179259	VCV zz	0.0000287245
PT DGN	SO	Name	50163	To the Point	
GRID D	SO	Delta N	0.001	Delta E	0.046
		Delta Elv	0.022		
GPSVEC	SO	Point ID 23374	DX -7268.927	DY	1756.359
		Class Stake out	DZ -1903.803	Code	main fl
		Obs L1 Fixed	H.pr 0.017	V.pr	0.025
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	15.8
		Horz SD		Vert SD	
		Start wk 1550 sec	575654.0	End wk 1550 sec	575659.0

GPSQC2	NM	Ttl satellites 16	Err Scale 0.0099999998
		VCV xx 0.0000177007	VCV xy 0.0000138115
		VCV xz -0.0000062399	VCV yy 0.0000370394
		VCV yz -0.0000173521	VCV zz 0.0000286951
PT DGN	SO	Name 50000	To the Point
GRID D	SO	Delta N -0.023	Delta E 0.016
		Delta Elv 0.007	
GPSVEC	SO	Point ID 23375 DX -7228.510 DY 1696.630	
		Class Stake out DZ -1949.672 Code <no text>	
		Obs L1 Fixed H.pr 0.017 V.pr 0.025	
GPSQC1	NM	Min SVs 16 PDOP max 0.9	
		Relative DOPs Yes HDOP max 0.5	
		Total GPS pos 5 VDOP max 0.8	
		Monitor status Not monitored RMS 9.1	
		Horz SD Vert SD	
		Start wk 1550 sec 575747.0 End wk 1550 sec 575752.0	
GPSQC2	NM	Ttl satellites 16 Err Scale 0.0099999998	
		VCV xx 0.0000164451 VCV xy 0.0000126863	
		VCV xz -0.0000062945 VCV yy 0.0000369368	
		VCV yz -0.0000176397 VCV zz 0.0000290394	
PT DGN	SO	Name 50168	To the Point
GRID D	SO	Delta N 0.003	Delta E -0.005
		Delta Elv 0.034	
GPSVEC	SO	Point ID 23376 DX -7184.485 DY 1671.121	
		Class Stake out DZ -1954.879 Code <no text>	
		Obs L1 Fixed H.pr 0.017 V.pr 0.025	
GPSQC1	NM	Min SVs 16 PDOP max 0.9	
		Relative DOPs Yes HDOP max 0.5	
		Total GPS pos 5 VDOP max 0.8	
		Monitor status Not monitored RMS 15.2	
		Horz SD Vert SD	
		Start wk 1550 sec 575803.0 End wk 1550 sec 575809.0	
GPSQC2	NM	Ttl satellites 16 Err Scale 0.0099999998	
		VCV xx 0.0000170035 VCV xy 0.0000134445	
		VCV xz -0.0000067405 VCV yy 0.0000376242	
		VCV yz -0.0000180009 VCV zz 0.0000291119	
PT DGN	SO	Name 50169	To the Point
GRID D	SO	Delta N -0.022	Delta E 0.028
		Delta Elv 0.013	
GPSVEC	SO	Point ID 23377 DX -7141.623 DY 1646.381	
		Class Stake out DZ -1960.015 Code crest	
		Obs L1 Fixed H.pr 0.017 V.pr 0.025	
GPSQC1	NM	Min SVs 11 PDOP max 1.0	
		Relative DOPs Yes HDOP max 0.5	
		Total GPS pos 5 VDOP max 0.8	
		Monitor status Not monitored RMS 14.9	
		Horz SD Vert SD	
		Start wk 1550 sec 575941.0 End wk 1550 sec 575948.0	
GPSQC2	NM	Ttl satellites 16 Err Scale 0.0099999998	
		VCV xx 0.0000173558 VCV xy 0.0000139934	
		VCV xz -0.0000074608 VCV yy 0.0000379427	
		VCV yz -0.0000184441 VCV zz 0.0000294377	
PT DGN	SO	Name 50162	To the Point
GRID D	SO	Delta N -0.030	Delta E 0.007
		Delta Elv 0.006	
GPSVEC	SO	Point ID 23378 DX -7124.921 DY 1671.584	
		Class Stake out DZ -1920.167 Code crest	
		Obs L1 Fixed H.pr 0.017 V.pr 0.025	
GPSQC1	NM	Min SVs 16 PDOP max 0.9	
		Relative DOPs Yes HDOP max 0.5	
		Total GPS pos 5 VDOP max 0.8	
		Monitor status Not monitored RMS 17.2	
		Horz SD Vert SD	
		Start wk 1550 sec 576019.0 End wk 1550 sec 576029.0	
GPSQC2	NM	Ttl satellites 16 Err Scale 0.0099999998	
		VCV xx 0.0000170888 VCV xy 0.0000138586	
		VCV xz -0.0000076749 VCV yy 0.0000372804	
		VCV yz -0.0000183416 VCV zz 0.0000292025	
PT DGN	SO	Name 50042	To the Point
GRID D	SO	Delta N 0.006	Delta E 0.019
		Delta Elv 0.038	
GPSVEC	SO	Point ID 23379 DX -7078.370 DY 1645.735	
		Class Stake out DZ -1926.358 Code <no text>	
		Obs L1 Fixed H.pr 0.017 V.pr 0.025	

GPSQC1	NM	Min SVs	11	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	23.5
		Horz SD		Vert SD	
		Start wk 1550 sec 576084.0		End wk 1550 sec 576089.0	
GPSQC2	NM	Ttl satellites	11	Err Scale	0.0099999998
		VCV xx	0.0000172476	VCV xy	0.0000140611
		VCV xz	-0.0000080115	VCV yy	0.0000374845
		VCV yz	-0.0000186439	VCV zz	0.0000296741
PT DGN	SO	Name	50066	To the Point	
GRID D	SO	Delta N	0.009	Delta E	-0.027
		Delta Elv	0.029		
GPSVEC	SO	Point ID 23380	DX -7097.146	DY	1621.353
		Class Stake out	DZ -1965.773	Code	<no text>
		Obs L1 Fixed	H.pr 0.017	V.pr	0.025
GPSQC1	NM	Min SVs	11	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	15.5
		Horz SD		Vert SD	
		Start wk 1550 sec 576157.0		End wk 1550 sec 576162.0	
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000173314	VCV xy	0.0000141896
		VCV xz	-0.0000083628	VCV yy	0.0000376257
		VCV yz	-0.0000189257	VCV zz	0.0000300917
PT DGN	SO	Name	50170	To the Point	
GRID D	SO	Delta N	0.005	Delta E	-0.046
		Delta Elv	0.004		
GPSVEC	SO	Point ID 23381	DX -7036.475	DY	1623.021
		Class Stake out	DZ -1932.272	Code	<no text>
		Obs L1 Fixed	H.pr 0.016	V.pr	0.025
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	10.5
		Horz SD		Vert SD	
		Start wk 1550 sec 576303.0		End wk 1550 sec 576311.0	
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000169696	VCV xy	0.0000139091
		VCV xz	-0.0000087477	VCV yy	0.0000361712
		VCV yz	-0.0000186872	VCV zz	0.000029968
PT DGN	SO	Name	50067	To the Point	
GRID D	SO	Delta N	0.019	Delta E	-0.004
		Delta Elv	0.007		
GPSVEC	SO	Point ID 23382	DX -6983.709	DY	1594.479
		Class Stake out	DZ -1939.725	Code	main fl
		Obs L1 Fixed	H.pr 0.016	V.pr	0.026
GPSQC1	NM	Min SVs	16	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	18.4
		Horz SD		Vert SD	
		Start wk 1550 sec 576447.0		End wk 1550 sec 576452.0	
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000173268	VCV xy	0.000014483
		VCV xz	-0.0000095739	VCV yy	0.0000373737
		VCV yz	-0.0000196828	VCV zz	0.0000312292
PT DGN	SO	Name	50041	To the Point	
GRID D	SO	Delta N	0.005	Delta E	0.017
		Delta Elv	0.029		
GPSVEC	SO	Point ID 23383	DX -6990.783	DY	1579.655
		Class Stake out	DZ -1960.945	Code	main fl
		Obs L1 Fixed	H.pr 0.016	V.pr	0.026
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	11.8
		Horz SD		Vert SD	
		Start wk 1550 sec 576536.0		End wk 1550 sec 576541.0	
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000172767	VCV xy	0.0000145892
		VCV xz	-0.0000099175	VCV yy	0.0000372941
		VCV yz	-0.0000199173	VCV zz	0.0000315285
PT DGN	SO	Name	50165	To the Point	
GRID D	SO	Delta N	-0.031	Delta E	0.002
		Delta Elv	0.004		

GPSVEC	SO	Point ID 23384 Class Stake out Obs L1 Fixed	DX -6970.404 DZ -1899.808 H.pr 0.016	DY 1622.283 Code main fl V.pr 0.026
GPSQC1	NM	Min SVs 11 Relative DOPs Yes Total GPS pos 5 Monitor status Not monitored Horz SD Start wk 1550 sec 576674.0	PDOP max 1.0 HDOP max 0.5 VDOP max 0.8 RMS 14.9 Vert SD End wk 1550 sec 576679.0	
GPSQC2	NM	Ttl satellites 16 VCV xx 0.0000175615 VCV xz -0.0000105932 VCV yz -0.0000201655	Err Scale 0.0099999998 VCV xy 0.0000148427 VCV yy 0.000036769 VCV zz 0.0000324263	
PT DGN	SO	Name 50040	To the Point	
GRID D	SO	Delta N 0.013 Delta Elv 0.022	Delta E 0.011	
NOTE	TS	Time Date 09/26/2009 Time 09:12:05		
GPSVEC	SO	Point ID 23385 Class Stake out Obs L1 Fixed	DX -6906.283 DZ -1906.891 H.pr 0.016	DY 1584.291 Code <no text> V.pr 0.026
GPSQC1	NM	Min SVs 16 Relative DOPs Yes Total GPS pos 5 Monitor status Not monitored Horz SD Start wk 1550 sec 576732.0	PDOP max 1.0 HDOP max 0.5 VDOP max 0.8 RMS 18.3 Vert SD End wk 1550 sec 576739.0	
GPSQC2	NM	Ttl satellites 16 VCV xx 0.0000170229 VCV xz -0.0000105432 VCV yz -0.0000201032	Err Scale 0.0099999998 VCV xy 0.0000142893 VCV yy 0.0000362224 VCV zz 0.0000323519	
PT DGN	SO	Name 50129	To the Point	
GRID D	SO	Delta N -0.024 Delta Elv 0.034	Delta E 0.024	
GPSVEC	SO	Point ID 23386 Class Stake out Obs L1 Fixed	DX -6916.908 DZ -1947.374 H.pr 0.016	DY 1555.399 Code <no text> V.pr 0.026
GPSQC1	NM	Min SVs 11 Relative DOPs Yes Total GPS pos 5 Monitor status Not monitored Horz SD Start wk 1550 sec 576843.0	PDOP max 1.0 HDOP max 0.5 VDOP max 0.8 RMS 23.7 Vert SD End wk 1550 sec 576848.0	
GPSQC2	NM	Ttl satellites 16 VCV xx 0.0000175759 VCV xz -0.0000113225 VCV yz -0.0000211754	Err Scale 0.0099999998 VCV xy 0.0000151501 VCV yy 0.0000379703 VCV zz 0.0000334305	
PT DGN	SO	Name 50128	To the Point	
GRID D	SO	Delta N -0.047 Delta Elv 0.011	Delta E -0.015	
NOTE	TS	Time Date 09/26/2009 Time 10:54:21		
GPSVEC	SO	Point ID 23387 Class Stake out Obs L1 Fixed	DX -6710.304 DZ -1515.025 H.pr 0.018	DY 1850.602 Code mid V.pr 0.029
GPSQC1	NM	Min SVs 13 Relative DOPs Yes Total GPS pos 6 Monitor status Not monitored Horz SD Start wk 1550 sec 582864.0	PDOP max 1.1 HDOP max 0.6 VDOP max 0.9 RMS 17.6 Vert SD End wk 1550 sec 582869.0	
GPSQC2	NM	Ttl satellites 13 VCV xx 0.0000174304 VCV xz -0.000003678 VCV yz -0.000025711	Err Scale 0.0099999998 VCV xy 0.0000147589 VCV yy 0.0000659673 VCV zz 0.0000243552	
LIN DGN	SO	Name Line0030 Station 47.953 Elv <null>	To the Line H.Offset <null>	
LIN D	SO	D Station <null> D Elev 0.019	D Offset 0.004 Grd to Line 1:0.202	
GRID D	SO	Delta N 0.004 Delta Elv 0.019	Delta E -0.001	
GPSVEC	SO	Point ID 23388 Class Stake out Obs L1 Fixed	DX -6707.711 DZ -1495.292 H.pr 0.018	DY 1865.683 Code mid V.pr 0.029
GPSQC1	NM	Min SVs 13 Relative DOPs Yes Total GPS pos 6 Monitor status Not monitored Horz SD Start wk 1550 sec 582916.0	PDOP max 1.1 HDOP max 0.6 VDOP max 0.9 RMS 14.4 Vert SD End wk 1550 sec 582921.0	

GPSQC2	NM	Ttl satellites 13		Err Scale	0.0099999998
		VCV xx 0.0000178578		VCV xy	0.0000150927
		VCV xz -0.0000038633		VCV yy	0.0000673227
		VCV yz -0.0000271651		VCV zz	0.0000263865
LIN DGN	SO	Name Line0029		To the Line	
		Station 47.102		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	0.005
		D Elev 0.017		Grd to Line	1:0.264
GRID D	SO	Delta N 0.004		Delta E	-0.001
		Delta Elv 0.017			
GPSVEC	SO	Point ID 23389	DX -6703.890	DY	1877.291
		Class Stake out	DZ -1479.407	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.030
GPSQC1	NM	Min SVs 13		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	0.9
		Monitor status Not monitored		RMS	13.0
		Horz SD		Vert SD	
		Start wk 1550 sec 582982.0		End wk 1550 sec 582987.0	
GPSQC2	NM	Ttl satellites 13		Err Scale	0.0099999998
		VCV xx 0.0000180809		VCV xy	0.0000151409
		VCV xz -0.0000039038		VCV yy	0.0000678891
		VCV yz -0.0000279677		VCV zz	0.0000276154
LIN DGN	SO	Name Line0028		To the Line	
		Station 46.190		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	-0.044
		D Elev 0.055		Grd to Line	1:0.788
GRID D	SO	Delta N -0.043		Delta E	0.003
		Delta Elv 0.055			
GPSVEC	SO	Point ID 23390	DX -6697.795	DY	1887.357
		Class Stake out	DZ -1463.843	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.030
GPSQC1	NM	Min SVs 13		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	0.9
		Monitor status Not monitored		RMS	21.4
		Horz SD		Vert SD	
		Start wk 1550 sec 583026.0		End wk 1550 sec 583031.0	
GPSQC2	NM	Ttl satellites 13		Err Scale	0.0099999998
		VCV xx 0.0000181014		VCV xy	0.0000150108
		VCV xz -0.0000038552		VCV yy	0.000067628
		VCV yz -0.0000280879		VCV zz	0.0000279522
LIN DGN	SO	Name Line0027		To the Line	
		Station 45.125		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	0.001
		D Elev 0.004		Grd to Line	1:0.264
GRID D	SO	Delta N 0.001		Delta E	0.000
		Delta Elv 0.004			
GPSVEC	SO	Point ID 23391	DX -6687.720	DY	1898.768
		Class Stake out	DZ -1444.492	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.030
GPSQC1	NM	Min SVs 13		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	0.9
		Monitor status Not monitored		RMS	12.4
		Horz SD		Vert SD	
		Start wk 1550 sec 583096.0		End wk 1550 sec 583101.0	
GPSQC2	NM	Ttl satellites 13		Err Scale	0.0099999998
		VCV xx 0.0000181667		VCV xy	0.0000147211
		VCV xz -0.0000037327		VCV yy	0.0000667984
		VCV yz -0.0000280952		VCV zz	0.0000282871
LIN DGN	SO	Name Line0026		To the Line	
		Station 44.272		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	0.019
		D Elev 0.025		Grd to Line	1:0.747
GRID D	SO	Delta N 0.018		Delta E	0.004
		Delta Elv 0.025			
GPSVEC	SO	Point ID 23392	DX -6674.020	DY	1907.449
		Class Stake out	DZ -1426.788	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.029
GPSQC1	NM	Min SVs 13		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	0.9
		Monitor status Not monitored		RMS	16.7
		Horz SD		Vert SD	
		Start wk 1550 sec 583144.0		End wk 1550 sec 583149.0	

GPSQC2	NM	Ttl satellites 13		Err Scale 0.0099999998
		VCV xx 0.0000181201		VCV xy 0.0000144472
		VCV xz -0.0000036255		VCV yy 0.000065877
		VCV yz -0.0000279178		VCV zz 0.000028308
LIN DGN	SO	Name Line0025	To the Line	
		Station 42.495	H.Offset	<null>
		Elv <null>		
LIN D	SO	D Station <null>	D Offset	-0.019
		D Elev 0.042	Grd to Line	1:0.453
GRID D	SO	Delta N -0.017	Delta E	-0.007
		Delta Elv 0.042		
GPSVEC	SO	Point ID 23393	DX -6660.173	DY 1913.153
		Class Stake out	DZ -1412.536	Code mid
		Obs L1 Fixed	H.pr 0.019	V.pr 0.029
GPSQC1	NM	Min SVs 13	PDOP max 1.1	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 0.9	
		Monitor status Not monitored	RMS 9.8	
		Horz SD	Vert SD	
		Start wk 1550 sec 583200.0	End wk 1550 sec 583205.0	
GPSQC2	NM	Ttl satellites 13	Err Scale 0.0099999998	
		VCV xx 0.0000181696	VCV xy 0.0000142568	
		VCV xz -0.0000035163	VCV yy 0.0000653412	
		VCV yz -0.000027831	VCV zz 0.0000284422	
LIN DGN	SO	Name Line0024	To the Line	
		Station 40.983	H.Offset	<null>
		Elv <null>		
LIN D	SO	D Station <null>	D Offset	-0.015
		D Elev 0.027	Grd to Line	1:0.555
GRID D	SO	Delta N -0.013	Delta E	-0.008
		Delta Elv 0.027		
GPSVEC	SO	Point ID 23394	DX -6645.766	DY 1917.144
		Class Stake out	DZ -1399.958	Code mid
		Obs L1 Fixed	H.pr 0.019	V.pr 0.029
GPSQC1	NM	Min SVs 13	PDOP max 1.1	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 0.9	
		Monitor status Not monitored	RMS 19.5	
		Horz SD	Vert SD	
		Start wk 1550 sec 583262.0	End wk 1550 sec 583267.0	
GPSQC2	NM	Ttl satellites 13	Err Scale 0.0099999998	
		VCV xx 0.0000182664	VCV xy 0.000014037	
		VCV xz -0.0000033998	VCV yy 0.0000646633	
		VCV yz -0.0000277591	VCV zz 0.0000286175	
LIN DGN	SO	Name Line0023	To the Line	
		Station 39.909	H.Offset	<null>
		Elv <null>		
LIN D	SO	D Station <null>	D Offset	0.009
		D Elev 0.022	Grd to Line	1:0.405
GRID D	SO	Delta N 0.007	Delta E	0.005
		Delta Elv 0.022		
GPSVEC	SO	Point ID 23395	DX -6627.263	DY 1920.090
		Class Stake out	DZ -1385.794	Code mid
		Obs L1 Fixed	H.pr 0.019	V.pr 0.029
GPSQC1	NM	Min SVs 13	PDOP max 1.1	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 0.9	
		Monitor status Not monitored	RMS 10.4	
		Horz SD	Vert SD	
		Start wk 1550 sec 583313.0	End wk 1550 sec 583318.0	
GPSQC2	NM	Ttl satellites 13	Err Scale 0.0099999998	
		VCV xx 0.0000182168	VCV xy 0.0000137667	
		VCV xz -0.0000032914	VCV yy 0.0000637018	
		VCV yz -0.0000275386	VCV zz 0.0000285756	
LIN DGN	SO	Name Line0022	To the Line	
		Station 39.594	H.Offset	<null>
		Elv <null>		
LIN D	SO	D Station <null>	D Offset	0.031
		D Elev 0.049	Grd to Line	1:0.644
GRID D	SO	Delta N 0.021	Delta E	0.023
		Delta Elv 0.049		
GPSVEC	SO	Point ID 23396	DX -6612.009	DY 1920.892
		Class Stake out	DZ -1375.960	Code mid
		Obs L1 Fixed	H.pr 0.019	V.pr 0.029
GPSQC1	NM	Min SVs 9	PDOP max 1.1	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 0.9	
		Monitor status Not monitored	RMS 15.9	
		Horz SD	Vert SD	
		Start wk 1550 sec 583360.0	End wk 1550 sec 583366.0	

GPSQC2	NM	Ttl satellites 13		Err Scale	0.0099999998
		VCV xx 0.0000182271		VCV xy	0.0000136133
		VCV xz -0.0000031956		VCV yy	0.0000631674
		VCV yz -0.0000273808		VCV zz	0.0000285914
LIN DGN	SO	Name Line0021		To the Line	
		Station 39.671		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	0.003
		D Elev 0.026		Grd to Line	1:0.115
GRID D	SO	Delta N 0.002		Delta E	0.002
		Delta Elv 0.026			
GPSVEC	SO	Point ID 23397	DX -6592.877	DY	1919.274
		Class Stake out	DZ -1367.813	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.029
GPSQC1	NM	Min SVs 13		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	0.9
		Monitor status Not monitored		RMS	15.4
		Horz SD		Vert SD	
		Start wk 1550 sec 583402.0		End wk 1550 sec 583407.0	
GPSQC2	NM	Ttl satellites 13		Err Scale	0.0099999998
		VCV xx 0.0000181879		VCV xy	0.000013412
		VCV xz -0.0000031152		VCV yy	0.0000624331
		VCV yz -0.0000271198		VCV zz	0.0000285486
LIN DGN	SO	Name Line0020		To the Line	
		Station 38.107		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	-0.025
		D Elev 0.014		Grd to Line	1:1.745
GRID D	SO	Delta N -0.013		Delta E	-0.021
		Delta Elv 0.014			
GPSVEC	SO	Point ID 23398	DX -6570.919	DY	1915.640
		Class Stake out	DZ -1359.933	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.029
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	15.4
		Horz SD		Vert SD	
		Start wk 1550 sec 583447.0		End wk 1550 sec 583453.0	
GPSQC2	NM	Ttl satellites 13		Err Scale	0.0099999998
		VCV xx 0.0000181845		VCV xy	0.000013225
		VCV xz -0.0000030331		VCV yy	0.0000617382
		VCV yz -0.0000270429		VCV zz	0.0000285475
LIN DGN	SO	Name Line0019		To the Line	
		Station 37.550		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	-0.015
		D Elev 0.000		Grd to Line	1:-37.707
GRID D	SO	Delta N -0.005		Delta E	-0.014
		Delta Elv 0.000			
GPSVEC	SO	Point ID 23399	DX -6552.706	DY	1910.642
		Class Stake out	DZ -1356.536	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.029
GPSQC1	NM	Min SVs 12		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	0.9
		Monitor status Not monitored		RMS	11.9
		Horz SD		Vert SD	
		Start wk 1550 sec 583504.0		End wk 1550 sec 583509.0	
GPSQC2	NM	Ttl satellites 12		Err Scale	0.0099999998
		VCV xx 0.0000183207		VCV xy	0.0000131441
		VCV xz -0.0000030327		VCV yy	0.0000617102
		VCV yz -0.0000277838		VCV zz	0.0000296736
LIN DGN	SO	Name Line0018		To the Line	
		Station 36.107		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	-0.018
		D Elev 0.026		Grd to Line	1:0.707
GRID D	SO	Delta N -0.005		Delta E	-0.018
		Delta Elv 0.026			
GPSVEC	SO	Point ID 23400	DX -6538.082	DY	1905.072
		Class Stake out	DZ -1355.647	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.028
GPSQC1	NM	Min SVs 13		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	0.9
		Monitor status Not monitored		RMS	14.7
		Horz SD		Vert SD	
		Start wk 1550 sec 583553.0		End wk 1550 sec 583558.0	

GPSQC2	NM	Ttl satellites 13		Err Scale	0.0099999998
		VCV xx 0.0000183632		VCV xy	0.0000128973
		VCV xz -0.0000027478		VCV yy	0.0000598016
		VCV yz -0.0000255677		VCV zz	0.0000269898
LIN DGN	SO	Name Line0017		To the Line	
		Station 34.938		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	-0.013
		D Elev 0.022		Grd to Line	1:0.584
GRID D	SO	Delta N -0.002		Delta E	-0.013
		Delta Elv 0.022			
GPSVEC	SO	Point ID 23401	DX -6720.144	DY	1824.191
		Class Stake out	DZ -1549.659	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.028
GPSQC1	NM	Min SVs 12		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	0.9
		Monitor status Not monitored		RMS	13.9
		Horz SD		Vert SD	
		Start wk 1550 sec 583685.0		End wk 1550 sec 583690.0	
GPSQC2	NM	Ttl satellites 12		Err Scale	0.0099999998
		VCV xx 0.0000185172		VCV xy	0.0000119346
		VCV xz -0.0000023973		VCV yy	0.0000582857
		VCV yz -0.0000254596		VCV zz	0.000027586
LIN DGN	SO	Name 34141-34131		To the Line	
		Station 54.452		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	0.008
		D Elev 0.013		Grd to Line	1:0.627
GRID D	SO	Delta N 0.008		Delta E	-0.002
		Delta Elv 0.013			
GPSVEC	SO	Point ID 23402	DX -6734.018	DY	1786.731
		Class Stake out	DZ -1598.807	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.029
GPSQC1	NM	Min SVs 12		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	0.9
		Monitor status Not monitored		RMS	9.6
		Horz SD		Vert SD	
		Start wk 1550 sec 583734.0		End wk 1550 sec 583739.0	
GPSQC2	NM	Ttl satellites 12		Err Scale	0.0099999998
		VCV xx 0.0000189409		VCV xy	0.0000125289
		VCV xz -0.0000027077		VCV yy	0.0000605688
		VCV yz -0.0000278951		VCV zz	0.0000305632
LIN DGN	SO	Name 34140-34132		To the Line	
		Station 63.641		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	0.023
		D Elev 0.050		Grd to Line	1:0.467
GRID D	SO	Delta N 0.023		Delta E	-0.005
		Delta Elv 0.050			
GPSVEC	SO	Point ID 23403	DX -6750.621	DY	1746.724
		Class Stake out	DZ -1651.097	Code mid	
		Obs L1 Fixed	H.pr 0.019	V.pr	0.029
GPSQC1	NM	Min SVs 12		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 6		VDOP max	0.9
		Monitor status Not monitored		RMS	15.0
		Horz SD		Vert SD	
		Start wk 1550 sec 583810.0		End wk 1550 sec 583815.0	
GPSQC2	NM	Ttl satellites 12		Err Scale	0.0099999998
		VCV xx 0.0000192983		VCV xy	0.0000128312
		VCV xz -0.0000028773		VCV yy	0.0000618829
		VCV yz -0.0000295418		VCV zz	0.0000326275
LIN DGN	SO	Name 34139-34133		To the Line	
		Station 75.362		H.Offset	<null>
		Elv <null>			
LIN D	SO	D Station <null>		D Offset	-0.002
		D Elev 0.000		Grd to Line	1:-4.606
GRID D	SO	Delta N -0.002		Delta E	0.000
		Delta Elv 0.000			
GPSVEC	SO	Point ID 23404	DX -7265.808	DY	1859.241
		Class Stake out	DZ -1776.675	Code rd	
		Obs L1 Fixed	H.pr 0.020	V.pr	0.030
GPSQC1	NM	Min SVs 7		PDOP max	1.1
		Relative DOPs Yes		HDOP max	0.6
		Total GPS pos 5		VDOP max	0.9
		Monitor status Not monitored		RMS	14.8
		Horz SD		Vert SD	
		Start wk 1550 sec 584231.0		End wk 1550 sec 584236.0	

GPSQC2	NM	Ttl satellites 7	Err Scale 0.0099999998
		VCV xx 0.0000222695	VCV xy 0.00001477
		VCV xz -0.0000030259	VCV yy 0.0000651957
		VCV yz -0.0000317177	VCV zz 0.0000357944

PT DGN	SO	Name 34054	To the Point
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GRID D	SO	Delta N 0.020	Delta E 0.027
		Delta Elv 0.015	

GPSVEC	SO	Point ID 23405	DX -7204.096	DY 1923.816
		Class Stake out	DZ -1674.173	Code rd
		Obs L1 Fixed	H.pr 0.016	V.pr 0.024

GPSQC1	NM	Min SVs 11	PDOP max 1.1
		Relative DOPs Yes	HDOP max 0.6
		Total GPS pos 6	VDOP max 0.9
		Monitor status Not monitored	RMS 11.2
		Horz SD	Vert SD
		Start wk 1550 sec 584339.0	End wk 1550 sec 584344.0

GPSQC2	NM	Ttl satellites 11	Err Scale 0.007939022
		VCV xx 0.0000237008	VCV xy 0.0000160852
		VCV xz -0.0000037396	VCV yy 0.0000614267
		VCV yz -0.0000301894	VCV zz 0.0000356591

PT DGN	SO	Name 34056	To the Point
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GRID D	SO	Delta N -0.010	Delta E 0.004
		Delta Elv 0.001	

GPSVEC	SO	Point ID 23406	DX -7175.290	DY 1953.319
		Class Stake out	DZ -1627.326	Code rd
		Obs L1 Fixed	H.pr 0.020	V.pr 0.031

GPSQC1	NM	Min SVs 11	PDOP max 1.2
		Relative DOPs Yes	HDOP max 0.6
		Total GPS pos 6	VDOP max 1.0
		Monitor status Not monitored	RMS 15.0
		Horz SD	Vert SD
		Start wk 1550 sec 584403.0	End wk 1550 sec 584408.0

GPSQC2	NM	Ttl satellites 11	Err Scale 0.0099999998
		VCV xx 0.0000241421	VCV xy 0.0000166634
		VCV xz -0.0000039951	VCV yy 0.000066779
		VCV yz -0.0000324787	VCV zz 0.0000369478

PT DGN	SO	Name 34057	To the Point
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GRID D	SO	Delta N -0.013	Delta E 0.044
		Delta Elv 0.004	

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/26/2009 Time 13:18:18

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
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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

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 1550
		Init type On the fly	seconds 591524.0
		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
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GPSVEC	SO	Point ID 23407	DX -6175.668	DY 1205.121
		Class Stake out	DZ -2024.100	Code 9-26-09chk
		Obs L1 Fixed	H.pr 0.017	V.pr 0.026

GPSQC1	NM	Min SVs	8	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	11.9
		Horz SD		Vert SD	
		Start wk 1550 sec 591568.0		End wk 1550 sec 591573.0	
GPSQC2	NM	Ttl satellites	12	Err Scale	0.0099999998
		VCV xx	0.0000271947	VCV xy	0.0000209322
		VCV xz	-0.0000119615	VCV yy	0.0000394161
		VCV yz	-0.000018664	VCV zz	0.0000240816
PT DGN	SO	Name	106	To the Point	
GRID D	SO	Delta N	-0.039	Delta E	-0.035
		Delta Elv	-0.042		
GPSVEC	SO	Point ID 23408	DX -6850.263	DY	1470.140
		Class Stake out	DZ -2084.011	Code	733117
		Obs L1 Fixed	H.pr 0.018	V.pr	0.036
GPSQC1	NM	Min SVs	13	PDOP max	1.2
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	5	VDOP max	1.1
		Monitor status	Not monitored	RMS	10.8
		Horz SD		Vert SD	
		Start wk 1550 sec 592694.0		End wk 1550 sec 592699.0	
GPSQC2	NM	Ttl satellites	13	Err Scale	0.0099999998
		VCV xx	0.0000422187	VCV xy	0.0000424031
		VCV xz	-0.0000220962	VCV yy	0.0000745706
		VCV yz	-0.0000361947	VCV zz	0.0000325467
PT DGN	SO	Name	33117	To the Point	
GRID D	SO	Delta N	0.040	Delta E	-0.008
		Delta Elv	0.013		
NOTE	NM	Modified 8:43:14 AM 10/8/2009			
NOTE	NM	Old values 933117			
GPSVEC	SO	Point ID 23409	DX -6803.612	DY	1452.744
		Class Stake out	DZ -2078.223	Code	733116
		Obs L1 Fixed	H.pr 0.018	V.pr	0.036
GPSQC1	NM	Min SVs	13	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.1
		Monitor status	Not monitored	RMS	11.8
		Horz SD		Vert SD	
		Start wk 1550 sec 592896.0		End wk 1550 sec 592901.0	
GPSQC2	NM	Ttl satellites	13	Err Scale	0.0099999998
		VCV xx	0.0000415798	VCV xy	0.0000432448
		VCV xz	-0.000022378	VCV yy	0.0000781379
		VCV yz	-0.0000380141	VCV zz	0.0000329736
PT DGN	SO	Name	33116	To the Point	
GRID D	SO	Delta N	-0.049	Delta E	0.007
		Delta Elv	0.011		
NOTE	NM	Modified 8:43:01 AM 10/8/2009			
NOTE	NM	Old values 933116			
GPSVEC	SO	Point ID 23410	DX -6732.753	DY	1426.212
		Class Stake out	DZ -2069.580	Code	733114
		Obs L1 Fixed	H.pr 0.018	V.pr	0.037
GPSQC1	NM	Min SVs	13	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.1
		Monitor status	Not monitored	RMS	8.9
		Horz SD		Vert SD	
		Start wk 1550 sec 593068.0		End wk 1550 sec 593073.0	
GPSQC2	NM	Ttl satellites	13	Err Scale	0.0099999998
		VCV xx	0.000040682	VCV xy	0.0000437491
		VCV xz	-0.0000224639	VCV yy	0.0000810727
		VCV yz	-0.0000395938	VCV zz	0.0000333288
PT DGN	SO	Name	33114	To the Point	
GRID D	SO	Delta N	-0.002	Delta E	0.007
		Delta Elv	0.013		
NOTE	NM	Modified 8:40:48 AM 10/8/2009			
NOTE	NM	Old values 933114			
GPSVEC	SO	Point ID 23411	DX -6684.811	DY	1408.204
		Class Stake out	DZ -2063.729	Code	733113
		Obs L1 Fixed	H.pr 0.018	V.pr	0.037
GPSQC1	NM	Min SVs	13	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.1
		Monitor status	Not monitored	RMS	25.0
		Horz SD		Vert SD	
		Start wk 1550 sec 593128.0		End wk 1550 sec 593133.0	

GPSQC2	NM	Ttl satellites 13		Err Scale 0.0099999998
		VCV xx 0.0000401769		VCV xy 0.0000436483
		VCV xz -0.0000225196		VCV yy 0.0000815679
		VCV yz -0.0000400512		VCV zz 0.0000335674
PT DGN	SO	Name 33113		To the Point
GRID D	SO	Delta N 0.064	Delta E 0.026	
		Delta Elv -0.024		
NOTE	NM	Modified 8:40:32 AM 10/8/2009		
NOTE	NM	Old values 933113		
GPSVEC	SO	Point ID 23412	DX -6640.041	DY 1391.533
		Class Stake out	DZ -2058.245	Code 733112
		Obs L1 Fixed	H.pr 0.018	V.pr 0.037
GPSQC1	NM	Min SVs 13	PDOP max 1.3	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 1.2	
		Monitor status Not monitored	RMS 14.4	
		Horz SD	Vert SD	
		Start wk 1550 sec 593248.0	End wk 1550 sec 593253.0	
GPSQC2	NM	Ttl satellites 13	Err Scale 0.0099999998	
		VCV xx 0.0000394785	VCV xy 0.0000437714	
		VCV xz -0.0000226299	VCV yy 0.0000833476	
		VCV yz -0.0000411522	VCV zz 0.0000340651	
PT DGN	SO	Name 33112		To the Point
GRID D	SO	Delta N 0.017	Delta E -0.004	
		Delta Elv 0.032		
NOTE	NM	Modified 8:40:15 AM 10/8/2009		
NOTE	NM	Old values 933112		
NOTE	TS	Time Date 09/26/2009 Time 13:48:58		
GPSVEC	SO	Point ID 23413	DX -6580.782	DY 1369.320
		Class Stake out	DZ -2050.943	Code 733111
		Obs L1 Fixed	H.pr 0.018	V.pr 0.037
GPSQC1	NM	Min SVs 13	PDOP max 1.3	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 1.2	
		Monitor status Not monitored	RMS 22.1	
		Horz SD	Vert SD	
		Start wk 1550 sec 593347.0	End wk 1550 sec 593352.0	
GPSQC2	NM	Ttl satellites 13	Err Scale 0.0099999998	
		VCV xx 0.000038783	VCV xy 0.0000437615	
		VCV xz -0.0000226503	VCV yy 0.0000846886	
		VCV yz -0.0000419934	VCV zz 0.000034379	
PT DGN	SO	Name 33111		To the Point
GRID D	SO	Delta N 0.010	Delta E -0.005	
		Delta Elv -0.026		
NOTE	NM	Modified 8:39:58 AM 10/8/2009		
NOTE	NM	Old values 933111		
GPSVEC	SO	Point ID 23414	DX -6529.278	DY 1350.219
		Class Stake out	DZ -2044.680	Code 733110
		Obs L1 Fixed	H.pr 0.017	V.pr 0.038
GPSQC1	NM	Min SVs 13	PDOP max 1.3	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 1.2	
		Monitor status Not monitored	RMS 15.6	
		Horz SD	Vert SD	
		Start wk 1550 sec 593482.0	End wk 1550 sec 593487.0	
GPSQC2	NM	Ttl satellites 13	Err Scale 0.0099999998	
		VCV xx 0.0000380977	VCV xy 0.0000440418	
		VCV xz -0.0000228448	VCV yy 0.0000872544	
		VCV yz -0.0000435367	VCV zz 0.0000351489	
PT DGN	SO	Name 33110		To the Point
GRID D	SO	Delta N -0.008	Delta E -0.028	
		Delta Elv 0.022		
NOTE	NM	Modified 8:39:42 AM 10/8/2009		
NOTE	NM	Old values 933110		
GPSVEC	SO	Point ID 23415	DX -6433.408	DY 1315.328
		Class Stake out	DZ -2033.133	Code 733108
		Obs L1 Fixed	H.pr 0.017	V.pr 0.038
GPSQC1	NM	Min SVs 13	PDOP max 1.3	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 1.2	
		Monitor status Not monitored	RMS 17.7	
		Horz SD	Vert SD	
		Start wk 1550 sec 593703.0	End wk 1550 sec 593708.0	

GPSQC2	NM	Ttl satellites 13		Err Scale 0.0098723806
		VCV xx 0.0000366784		VCV xy 0.000043984
		VCV xz -0.0000229073		VCV yy 0.000089356
		VCV yz -0.0000445779		VCV zz 0.0000352582
PT DGN	SO	Name 33108		To the Point
GRID D	SO	Delta N -0.041		Delta E -0.055
		Delta Elv 0.029		
NOTE	NM	Modified 8:37:48 AM 10/8/2009		
NOTE	NM	Old values 933108		
GPSVEC	SO	Point ID 23416	DX -6379.882	DY 1295.756
		Class Stake out	DZ -2026.685	Code 733107
		Obs L1 Fixed	H.pr 0.017	V.pr 0.038
GPSQC1	NM	Min SVs 13	PDOP max 1.3	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 1.2	
		Monitor status Not monitored	RMS 13.2	
		Horz SD	Vert SD	
		Start wk 1550 sec 593783.0	End wk 1550 sec 593788.0	
GPSQC2	NM	Ttl satellites 13	Err Scale 0.0099999998	
		VCV xx 0.0000354902	VCV xy 0.00004313	
		VCV xz -0.0000225524	VCV yy 0.0000901829	
		VCV yz -0.0000455454	VCV zz 0.0000359541	
PT DGN	SO	Name 33107		To the Point
GRID D	SO	Delta N 0.013		Delta E 0.051
		Delta Elv -0.040		
NOTE	NM	Modified 8:37:35 AM 10/8/2009		
NOTE	NM	Old values 933107		
INIT	KI	Init event Lost	Week 1550	
		Init type On the fly	seconds 594029.0	
		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 594031.0	
		Init counter 2	Point ID <no text>	
		Survey type Real Time	Plate H.Dist <null>	
		Plate V.Dist <null>	Plate azimuth <null>	
GPSVEC	SO	Point ID 23417	DX -6175.667	DY 1205.118
		Class Stake out	DZ -2024.095	Code 9-26-09chk
		Obs L1 Fixed	H.pr 0.016	V.pr 0.034
GPSQC1	NM	Min SVs 14	PDOP max 1.2	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 1.1	
		Monitor status Not monitored	RMS 12.9	
		Horz SD	Vert SD	
		Start wk 1550 sec 594194.0	End wk 1550 sec 594199.0	
GPSQC2	NM	Ttl satellites 14	Err Scale 0.0099999998	
		VCV xx 0.000028285	VCV xy 0.000031848	
		VCV xz -0.0000180232	VCV yy 0.0000686519	
		VCV yz -0.0000371253	VCV zz 0.0000329248	
PT DGN	SO	Name 106		To the Point
GRID D	SO	Delta N -0.042		Delta E -0.037
		Delta Elv -0.047		
GPSVEC	SO	Point ID 23418	DX -6154.021	DY 1286.483
		Class Stake out	DZ -1913.368	Code 933099
		Obs L1 Fixed	H.pr 0.015	V.pr 0.031
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 23.2	
		Horz SD	Vert SD	
		Start wk 1550 sec 594308.0	End wk 1550 sec 594313.0	
GPSQC2	NM	Ttl satellites 14	Err Scale 0.0099999998	
		VCV xx 0.0000257524	VCV xy 0.0000265509	
		VCV xz -0.000015443	VCV yy 0.0000561173	
		VCV yz -0.0000309084	VCV zz 0.0000299027	
PT DGN	SO	Name 33099		To the Point
GRID D	SO	Delta N -0.003		Delta E 0.016
		Delta Elv -0.059		
GPSVEC	SO	Point ID 23419	DX -6163.611	DY 1313.204
		Class Stake out	DZ -1886.615	Code 933098
		Obs L1 Fixed	H.pr 0.016	V.pr 0.033
GPSQC1	NM	Min SVs 7	PDOP max 1.2	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 1.0	
		Monitor status Not monitored	RMS 23.3	
		Horz SD	Vert SD	
		Start wk 1550 sec 594434.0	End wk 1550 sec 594440.0	

GPSQC2	NM	Ttl satellites 7		Err Scale 0.0099999998
		VCV xx 0.0000261021		VCV xy 0.0000289712
		VCV xz -0.0000166189		VCV yy 0.0000645528
		VCV yz -0.0000353431		VCV zz 0.0000322697
PT DGN	SO	Name 33098		To the Point
GRID D	SO	Delta N 0.041	Delta E 0.008	
		Delta Elv -0.018		
GPSVEC	SO	Point ID 23420	DX -6467.134	DY 1490.094
		Class Stake out	DZ -1845.643	Code 933088
		Obs L1 Fixed	H.pr 0.016	V.pr 0.032
GPSQC1	NM	Min SVs 8	PDOP max 1.1	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 5	VDOP max 1.0	
		Monitor status Not monitored	RMS 14.7	
		Horz SD	Vert SD	
		Start wk 1550 sec 595008.0	End wk 1550 sec 595013.0	
GPSQC2	NM	Ttl satellites 8	Err Scale 0.0099999998	
		VCV xx 0.0000225148	VCV xy 0.000024202	
		VCV xz -0.0000143277	VCV yy 0.0000616999	
		VCV yz -0.0000351857	VCV zz 0.0000342322	
PT DGN	SO	Name 33088		To the Point
GRID D	SO	Delta N 0.001	Delta E -0.018	
		Delta Elv -0.076		
NOTE	TS	Time Date 09/26/2009 Time 14:19:45		
GPSVEC	SO	Point ID 23421	DX -6548.710	DY 1533.605
		Class Stake out	DZ -1839.641	Code 933086
		Obs L1 Fixed	H.pr 0.016	V.pr 0.034
GPSQC1	NM	Min SVs 13	PDOP max 1.2	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 1.1	
		Monitor status Not monitored	RMS 17.7	
		Horz SD	Vert SD	
		Start wk 1550 sec 595193.0	End wk 1550 sec 595198.0	
GPSQC2	NM	Ttl satellites 13	Err Scale 0.0099999998	
		VCV xx 0.0000218207	VCV xy 0.0000242682	
		VCV xz -0.0000148121	VCV yy 0.0000682396	
		VCV yz -0.0000411512	VCV zz 0.0000399102	
PT DGN	SO	Name 33086		To the Point
GRID D	SO	Delta N 0.010	Delta E 0.020	
		Delta Elv 0.026		
GPSVEC	SO	Point ID 23422	DX -6633.873	DY 1604.944
		Class Stake out	DZ -1801.059	Code 933082
		Obs L1 Fixed	H.pr 0.016	V.pr 0.031
GPSQC1	NM	Min SVs 13	PDOP max 1.1	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 1.0	
		Monitor status Not monitored	RMS 16.3	
		Horz SD	Vert SD	
		Start wk 1550 sec 595688.0	End wk 1550 sec 595693.0	
GPSQC2	NM	Ttl satellites 13	Err Scale 0.0099999998	
		VCV xx 0.0000194195	VCV xy 0.0000194872	
		VCV xz -0.0000125663	VCV yy 0.0000561691	
		VCV yz -0.0000356985	VCV zz 0.0000391739	
PT DGN	SO	Name 33082		To the Point
GRID D	SO	Delta N 0.017	Delta E -0.015	
		Delta Elv 0.012		
GPSVEC	SO	Point ID 23423	DX -6655.281	DY 1636.245
		Class Stake out	DZ -1774.741	Code 933081
		Obs L1 Fixed	H.pr 0.016	V.pr 0.032
GPSQC1	NM	Min SVs 13	PDOP max 1.1	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 1.0	
		Monitor status Not monitored	RMS 14.5	
		Horz SD	Vert SD	
		Start wk 1550 sec 595788.0	End wk 1550 sec 595793.0	
GPSQC2	NM	Ttl satellites 13	Err Scale 0.0099999998	
		VCV xx 0.0000192096	VCV xy 0.0000199836	
		VCV xz -0.0000129144	VCV yy 0.0000611601	
		VCV yz -0.0000385785	VCV zz 0.0000411411	
PT DGN	SO	Name 33081		To the Point
GRID D	SO	Delta N -0.016	Delta E -0.015	
		Delta Elv -0.035		
GPSVEC	SO	Point ID 23424	DX -6175.662	DY 1205.148
		Class Stake out	DZ -2024.129	Code 9-26-09postchk
		Obs L1 Fixed	H.pr 0.016	V.pr 0.031


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GPSQC1 NM Min SVs 13 PDOP max 1.1
          Relative DOPs Yes HDOP max 0.5
          Total GPS pos 6 VDOP max 1.0
          Monitor status Not monitored RMS 14.7
          Horz SD Vert SD
          Start wk 1550 sec 596324.0 End wk 1550 sec 596329.0

GPSQC2 NM Ttl satellites 13 Err Scale 0.0099999998
          VCV xx 0.0000165821 VCV xy 0.0000166913
          VCV xz -0.0000116679 VCV yy 0.0000544534
          VCV yz -0.0000359582 VCV zz 0.0000414886

PT DGN SO Name 106 To the Point

GRID D SO Delta N -0.031 Delta E -0.029
          Delta Elv -0.003

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/28/2009 Time 09:58:10

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 1551
          Init type On the fly seconds 147516.0
          Init counter 1 Point ID <no text>
          Survey type Real Time Plate H.Dist <null>
          Plate V.Dist <null> Plate azimuth <null>

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

NOTE NM Receiver firmware version=3.710

GPSANT KI Antenna ht 6.562 Measuremt Uncorrected

GPSVEEC SO Point ID 23425 DX -6658.239 DY 2281.503
          Class Stake out DZ -993.097 Code 9-28-09chk
          Obs L1 Fixed H.pr 0.016 V.pr 0.029

GPSQC1 NM Min SVs 17 PDOP max 1.0
          Relative DOPs Yes HDOP max 0.5
          Total GPS pos 6 VDOP max 0.9
          Monitor status Not monitored RMS 19.5
          Horz SD Vert SD
          Start wk 1551 sec 147599.0 End wk 1551 sec 147604.0

GPSQC2 NM Ttl satellites 17 Err Scale 0.0099999998
          VCV xx 0.00001796 VCV xy 0.0000197291
          VCV xz -0.0000113562 VCV yy 0.0000525225
          VCV yz -0.0000254628 VCV zz 0.0000296126

PT DGN SO Name 23315 To the Point

GRID D SO Delta N -0.028 Delta E -0.016
          Delta Elv -0.016

INIT KI Init event High RMS Week 1551
          Init type On the fly seconds 147740.0
          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 1551
          Init type On the fly seconds 147741.0
          Init counter 1 Point ID <no text>
          Survey type Real Time Plate H.Dist <null>
          Plate V.Dist <null> Plate azimuth <null>

GPSVEEC SO Point ID 23426 DX -6895.664 DY 1613.086
          Class Stake out DZ -1866.400 Code 950130
          Obs L1 Fixed H.pr 0.016 V.pr 0.029

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GPSQC1 NM Min SVs 16 PDOP max 1.0
          Relative DOPs Yes HDOP max 0.5
          Total GPS pos 6 VDOP max 0.9
          Monitor status Not monitored RMS 15.4
          Horz SD Vert SD
          Start wk 1551 sec 148006.0 End wk 1551 sec 148011.0

GPSQC2 NM Ttl satellites 16 Err Scale 0.0099999998
          VCV xx 0.0000183355 VCV xy 0.000020299
          VCV xz -0.0000095737 VCV yy 0.0000573827
          VCV yz -0.0000244126 VCV zz 0.0000251551

PT DGN SO Name 50130 To the Point

GRID D SO Delta N 0.045 Delta E 0.026
          Delta Elv 0.042

GPSVEC SO Point ID 23427 DX -6851.960 DY 1587.492
          Class Stake out DZ -1871.400 Code 950172
          Obs L1 Fixed H.pr 0.017 V.pr 0.030

GPSQC1 NM Min SVs 16 PDOP max 1.1
          Relative DOPs Yes HDOP max 0.5
          Total GPS pos 5 VDOP max 0.9
          Monitor status Not monitored RMS 13.3
          Horz SD Vert SD
          Start wk 1551 sec 148083.0 End wk 1551 sec 148088.0

GPSQC2 NM Ttl satellites 16 Err Scale 0.0099999998
          VCV xx 0.0000188279 VCV xy 0.0000212501
          VCV xz -0.0000098066 VCV yy 0.0000610783
          VCV yz -0.0000258467 VCV zz 0.0000273077

PT DGN SO Name 50172 To the Point

GRID D SO Delta N 0.019 Delta E 0.006
          Delta Elv 0.010

GPSVEC SO Point ID 23428 DX -6841.360 DY 1616.225
          Class Stake out DZ -1830.737 Code 950171
          Obs L1 Fixed H.pr 0.017 V.pr 0.028

GPSQC1 NM Min SVs 16 PDOP max 1.0
          Relative DOPs Yes HDOP max 0.5
          Total GPS pos 5 VDOP max 0.9
          Monitor status Not monitored RMS 20.6
          Horz SD Vert SD
          Start wk 1551 sec 148137.0 End wk 1551 sec 148142.0

GPSQC2 NM Ttl satellites 16 Err Scale 0.0099999998
          VCV xx 0.0000186148 VCV xy 0.0000203161
          VCV xz -0.000009211 VCV yy 0.0000560065
          VCV yz -0.0000231468 VCV zz 0.0000263245

PT DGN SO Name 50171 To the Point

GRID D SO Delta N -0.013 Delta E -0.001
          Delta Elv 0.019

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 09/30/2009 Time 09:30:02

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 318666.0
          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 Lost Week 1551
          Init type On the fly seconds 320138.0
          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      Gained      Week      1551
           Init type      On the fly  seconds    320210.0
           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 10/02/2009 Time 13:23:47

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

INIT      KI  Init event      Gained      Week      1551
           Init type      On the fly  seconds    505460.0
           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 16:00:05

SURVEY EVENTKISurvey event Survey ended

NOTE      TS  Time Date 10/06/2009 Time 13:46:18

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    247605.0
           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 10-5-09 Additional 3MM Waste

NOTE      NM  Top Points.csv

SURVEY EVENTKISurvey event Survey ended

NOTE      TS  Time Date 10/08/2009 Time 07:55:06

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

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 1552
Init type On the fly seconds 399360.0
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 23429 DX -6175.669 DY 1205.123
Class Stake out DZ -2024.085 Code 10-8-09chk
Obs L1 Fixed H.pr 0.016 V.pr 0.023

GPSQC1 NM Min SVs 15 PDOP max 0.9
Relative DOPs Yes HDOP max 0.5
Total GPS pos 6 VDOP max 0.7
Monitor status Not monitored RMS 14.9
Horz SD Vert SD
Start wk 1552 sec 399422.0 End wk 1552 sec 399427.0

GPSQC2 NM Ttl satellites 15 Err Scale 0.0099999998
VCV xx 0.0000158865 VCV xy 0.000012381
VCV xz -0.000003535 VCV yy 0.0000377553
VCV yz -0.0000157299 VCV zz 0.0000224712

PT DGN SO Name 106 To the Point

GRID D SO Delta N -0.053 Delta E -0.034
Delta Elv -0.050

GPSVEC SO Point ID 23430 DX -6188.399 DY 1239.210
Class Stake out DZ -1989.260 Code 733102
Obs L1 Fixed H.pr 0.016 V.pr 0.023

GPSQC1 NM Min SVs 11 PDOP max 0.9
Relative DOPs Yes HDOP max 0.5
Total GPS pos 5 VDOP max 0.7
Monitor status Not monitored RMS 17.5
Horz SD Vert SD
Start wk 1552 sec 399935.0 End wk 1552 sec 399940.0

GPSQC2 NM Ttl satellites 16 Err Scale 0.0099999998
VCV xx 0.0000155401 VCV xy 0.0000114028
VCV xz -0.0000053335 VCV yy 0.0000329297
VCV yz -0.0000152695 VCV zz 0.0000228408

PT DGN SO Name 133102 To the Point

GRID D SO Delta N 0.009 Delta E 0.062
Delta Elv -0.023

GPSVEC SO Point ID 23431 DX -6168.536 DY 1257.320
Class Stake out DZ -1956.674 Code 733101
Obs L1 Fixed H.pr 0.015 V.pr 0.023

GPSQC1 NM Min SVs 16 PDOP max 0.9
Relative DOPs Yes HDOP max 0.5
Total GPS pos 6 VDOP max 0.7
Monitor status Not monitored RMS 14.1
Horz SD Vert SD
Start wk 1552 sec 400105.0 End wk 1552 sec 400112.0

GPSQC2 NM Ttl satellites 16 Err Scale 0.0099999998
VCV xx 0.0000154581 VCV xy 0.0000114023
VCV xz -0.0000059004 VCV yy 0.0000324646
VCV yz -0.0000154669 VCV zz 0.0000229047

PT DGN SO Name 133101 To the Point

GRID D SO Delta N 0.000 Delta E 0.117
Delta Elv 0.097

GPSVEC SO Point ID 23432 DX -6154.308 DY 1286.546
Class Stake out DZ -1913.432 Code 733099
Obs L1 Fixed H.pr 0.015 V.pr 0.023

GPSQC1	NM	Min SVs	11	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.7
		Monitor status	Not monitored	RMS	12.6
		Horz SD		Vert SD	
		Start wk 1552 sec	400275.0	End wk 1552 sec	400280.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000155603	VCV xy	0.0000115782
		VCV xz	-0.000006531	VCV yy	0.0000324305
		VCV yz	-0.0000158682	VCV zz	0.0000232897
PT DGN	SO	Name	133099	To the Point	
GRID D	SO	Delta N	0.005	Delta E	0.129
		Delta Elv	-0.009		
GPSVEC	SO	Point ID 23433		DX -6164.523	DY 1312.745
		Class Stake out		DZ -1887.245	Code 733098
		Obs L1 Fixed		H.pr 0.015	V.pr 0.023
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.7
		Monitor status	Not monitored	RMS	14.0
		Horz SD		Vert SD	
		Start wk 1552 sec	400405.0	End wk 1552 sec	400410.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000156268	VCV xy	0.0000117061
		VCV xz	-0.0000070058	VCV yy	0.0000324165
		VCV yz	-0.0000161886	VCV zz	0.0000236549
PT DGN	SO	Name	133098	To the Point	
GRID D	SO	Delta N	0.038	Delta E	0.046
		Delta Elv	0.045		
GPSVEC	SO	Point ID 23434		DX -6193.093	DY 1327.849
		Class Stake out		DZ -1885.619	Code 733097
		Obs L1 Fixed		H.pr 0.015	V.pr 0.024
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.7
		Monitor status	Not monitored	RMS	16.7
		Horz SD		Vert SD	
		Start wk 1552 sec	400568.0	End wk 1552 sec	400573.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000158365	VCV xy	0.000011995
		VCV xz	-0.000007658	VCV yy	0.000032687
		VCV yz	-0.000016738	VCV zz	0.0000242988
PT DGN	SO	Name	133097	To the Point	
GRID D	SO	Delta N	0.018	Delta E	-0.043
		Delta Elv	0.006		
GPSVEC	SO	Point ID 23435		DX -6221.270	DY 1342.674
		Class Stake out		DZ -1884.193	Code 733096
		Obs L1 Fixed		H.pr 0.015	V.pr 0.024
GPSQC1	NM	Min SVs	11	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.7
		Monitor status	Not monitored	RMS	13.6
		Horz SD		Vert SD	
		Start wk 1552 sec	400794.0	End wk 1552 sec	400800.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000160859	VCV xy	0.0000124276
		VCV xz	-0.0000085592	VCV yy	0.0000331288
		VCV yz	-0.0000175689	VCV zz	0.0000252309
PT DGN	SO	Name	33096	To the Point	
GRID D	SO	Delta N	0.110	Delta E	-0.007
		Delta Elv	0.027		
GPSVEC	SO	Point ID 23436		DX -6247.833	DY 1356.220
		Class Stake out		DZ -1882.995	Code 733095
		Obs L1 Fixed		H.pr 0.015	V.pr 0.024
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	18.4
		Horz SD		Vert SD	
		Start wk 1552 sec	400910.0	End wk 1552 sec	400916.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000162892	VCV xy	0.0000127247
		VCV xz	-0.0000090563	VCV yy	0.0000335628
		VCV yz	-0.0000180968	VCV zz	0.0000258604
PT DGN	SO	Name	33095	To the Point	
GRID D	SO	Delta N	0.092	Delta E	-0.017
		Delta Elv	-0.023		

GPSVEC	SO	Point ID 23437	DX -6285.619	DY 1375.647
		Class Stake out	DZ -1881.190	Code 733094
		Obs L1 Fixed	H.pr 0.015	V.pr 0.024
GPSQC1	NM	Min SVs 16	PDOP max 0.9	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 0.8	
		Monitor status Not monitored	RMS 13.7	
		Horz SD	Vert SD	
		Start wk 1552 sec 401015.0	End wk 1552 sec 401020.0	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0099999998	
		VCV xx 0.0000165907	VCV xy 0.0000129655	
		VCV xz -0.0000095297	VCV yy 0.000033126	
		VCV yz -0.0000182745	VCV zz 0.0000264809	
PT DGN	SO	Name 33094	To the Point	
GRID D	SO	Delta N 0.081	Delta E 0.033	
		Delta Elv -0.022		
NOTE	TS	Time Date 10/08/2009 Time 08:27:31		
GPSVEC	SO	Point ID 23438	DX -6315.624	DY 1391.261
		Class Stake out	DZ -1879.532	Code 733093
		Obs L1 Fixed	H.pr 0.015	V.pr 0.026
GPSQC1	NM	Min SVs 14	PDOP max 0.9	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 5	VDOP max 0.8	
		Monitor status Not monitored	RMS 27.4	
		Horz SD	Vert SD	
		Start wk 1552 sec 401254.0	End wk 1552 sec 401262.0	
GPSQC2	NM	Ttl satellites 14	Err Scale 0.0099999998	
		VCV xx 0.0000171773	VCV xy 0.0000139622	
		VCV xz -0.0000112563	VCV yy 0.0000352083	
		VCV yz -0.0000204187	VCV zz 0.0000302688	
PT DGN	SO	Name 33093	To the Point	
GRID D	SO	Delta N 0.002	Delta E -0.028	
		Delta Elv 0.047		
GPSVEC	SO	Point ID 23439	DX -6159.222	DY 1275.413
		Class Stake out	DZ -1929.637	Code 733100
		Obs L1 Fixed	H.pr 0.015	V.pr 0.025
GPSQC1	NM	Min SVs 15	PDOP max 0.9	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 6	VDOP max 0.8	
		Monitor status Not monitored	RMS 16.0	
		Horz SD	Vert SD	
		Start wk 1552 sec 401492.0	End wk 1552 sec 401497.0	
GPSQC2	NM	Ttl satellites 15	Err Scale 0.0099999998	
		VCV xx 0.0000165863	VCV xy 0.0000136066	
		VCV xz -0.0000106364	VCV yy 0.0000343948	
		VCV yz -0.0000196362	VCV zz 0.0000272022	
PT DGN	SO	Name 33100	To the Point	
GRID D	SO	Delta N 0.005	Delta E -0.006	
		Delta Elv -0.012		
GPSVEC	SO	Point ID 23440	DX -6236.851	DY 1244.830
		Class Stake out	DZ -2008.930	Code 733103
		Obs L1 Fixed	H.pr 0.015	V.pr 0.025
GPSQC1	NM	Min SVs 11	PDOP max 0.9	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 5	VDOP max 0.8	
		Monitor status Not monitored	RMS 14.7	
		Horz SD	Vert SD	
		Start wk 1552 sec 401591.0	End wk 1552 sec 401597.0	
GPSQC2	NM	Ttl satellites 15	Err Scale 0.0099999998	
		VCV xx 0.0000175534	VCV xy 0.0000147319	
		VCV xz -0.000011977	VCV yy 0.0000339298	
		VCV yz -0.0000202878	VCV zz 0.0000291765	
PT DGN	SO	Name 33103	To the Point	
GRID D	SO	Delta N -0.066	Delta E 0.114	
		Delta Elv 0.034		
GPSVEC	SO	Point ID 23441	DX -6274.892	DY 1258.315
		Class Stake out	DZ -2013.733	Code 733104
		Obs L1 Fixed	H.pr 0.015	V.pr 0.026
GPSQC1	NM	Min SVs 11	PDOP max 1.0	
		Relative DOPs Yes	HDOP max 0.5	
		Total GPS pos 5	VDOP max 0.8	
		Monitor status Not monitored	RMS 15.4	
		Horz SD	Vert SD	
		Start wk 1552 sec 401666.0	End wk 1552 sec 401671.0	
GPSQC2	NM	Ttl satellites 15	Err Scale 0.0099999998	
		VCV xx 0.0000179913	VCV xy 0.0000154151	
		VCV xz -0.0000126462	VCV yy 0.0000367893	
		VCV yz -0.0000219972	VCV zz 0.0000306773	

PT DGN	SO	Name	33104	To the Point	
GRID D	SO	Delta N	0.013	Delta E	0.003
		Delta Elv	0.041		
GPSVEC	SO	Point ID 23442	DX -6304.667	DY	1268.895
		Class Stake out	DZ -2017.414	Code	733105
		Obs L1 Fixed	H.pr 0.015	V.pr	0.027
GPSQC1	NM	Min SVs	11	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	16.2
		Horz SD		Vert SD	
		Start wk 1552 sec	401765.0	End wk 1552 sec	401771.0
GPSQC2	NM	Ttl satellites	15	Err Scale	0.0099999998
		VCV xx	0.0000182462	VCV xy	0.0000158966
		VCV xz	-0.0000131791	VCV yy	0.0000383322
		VCV yz	-0.0000230637	VCV zz	0.0000316722
PT DGN	SO	Name	33105	To the Point	
GRID D	SO	Delta N	0.007	Delta E	-0.021
		Delta Elv	0.007		
GPSVEC	SO	Point ID 23443	DX -6339.279	DY	1281.213
		Class Stake out	DZ -2021.707	Code	733106
		Obs L1 Fixed	H.pr 0.015	V.pr	0.026
GPSQC1	NM	Min SVs	15	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	15.5
		Horz SD		Vert SD	
		Start wk 1552 sec	401838.0	End wk 1552 sec	401848.0
GPSQC2	NM	Ttl satellites	15	Err Scale	0.0099999998
		VCV xx	0.0000181325	VCV xy	0.0000157683
		VCV xz	-0.0000132345	VCV yy	0.0000356254
		VCV yz	-0.000021916	VCV zz	0.0000311522
PT DGN	SO	Name	33106	To the Point	
GRID D	SO	Delta N	0.004	Delta E	-0.023
		Delta Elv	-0.012		
GPSVEC	SO	Point ID 23444	DX -6482.263	DY	1333.166
		Class Stake out	DZ -2038.926	Code	733109
		Obs L1 Fixed	H.pr 0.015	V.pr	0.027
GPSQC1	NM	Min SVs	11	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	14.1
		Horz SD		Vert SD	
		Start wk 1552 sec	401972.0	End wk 1552 sec	401978.0
GPSQC2	NM	Ttl satellites	11	Err Scale	0.0099999998
		VCV xx	0.0000189958	VCV xy	0.0000167322
		VCV xz	-0.0000142198	VCV yy	0.0000364533
		VCV yz	-0.0000228458	VCV zz	0.0000329736
PT DGN	SO	Name	33109	To the Point	
GRID D	SO	Delta N	-0.112	Delta E	0.090
		Delta Elv	0.017		
GPSVEC	SO	Point ID 23445	DX -6175.679	DY	1205.136
		Class Stake out	DZ -2024.105	Code	10-8-09chk
		Obs L1 Fixed	H.pr 0.015	V.pr	0.026
GPSQC1	NM	Min SVs	16	PDOP max	0.9
		Relative DOPs	Yes	HDOP max	0.5
		Total GPS pos	5	VDOP max	0.8
		Monitor status	Not monitored	RMS	17.7
		Horz SD		Vert SD	
		Start wk 1552 sec	402477.0	End wk 1552 sec	402482.0
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0099999998
		VCV xx	0.0000172472	VCV xy	0.0000155379
		VCV xz	-0.0000140638	VCV yy	0.0000335598
		VCV yz	-0.0000221198	VCV zz	0.0000338942
PT DGN	SO	Name	106	To the Point	
GRID D	SO	Delta N	-0.040	Delta E	-0.019
		Delta Elv	-0.032		

SURVEY EVENTKISurvey event Survey ended