

SC V10-70 Copyright © Trimble Navigation Ltd, 1996-2003
 Serial no 4401 19-Apr-10 12:15
 Angle Degrees Dist US Feet Press inch Hg
 Temp Fahrenheit Coord N-E-Elv H.obs Right

JOB Job ID 4-19-10-CAMU FG
 Atmos crn No C and R crn Yes Refrac cnst 0.20
 Elev Yes Sea level crn No

NOTE TS Time Date 10/15/2009 Time 14:40:17

SITE TM 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 TM File name <no text>

PROJ TM 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 0.000 Orig Elev 0.000
 Orient 1 0°00'00" Orient 2 0°00'00"
 Scale 1.0000000000

LOCELL TM Local Rad 20925604.474 Flat. 298.2572229329

DATUM TM 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 0.00000000

COGO NM Azmth From North Dir North-East

PLANE TM Orig Nrth 18728.937 Orig East 15068.999
 Trans N -24.769 Trans E -1.419
 Rotation -0°20'39.273751" Scale 1.00000000

HGTADJ TM 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 Projection from data collector
 Zone Name Zone from data collector
 Datum Name (WGS 84)
 Coord System Option Chosen from library

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

NOTE TS Time Date 10/20/2009 Time 19:12:51

F FILE FC File Used No
 ID 00000 Name

COGO NM Azmth From North Dir North-East

NOTE TS Time Date 01/06/2010 Time 12:41:40

NOTE TS Time Date 04/17/2010 Time 15:58:16

NOTE TS Time Date 04/19/2010 Time 08:48:37

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 SI Point ID 60000 Lat 36°03'20.28840"N Lng 115°01'24.44658"W
 Class Control Hgt 1657.677 Code NEW BASE_1_7_10
 Obs User Input H.pr <null> V.pr <null>

GPSANT KI Antenna ht 0.000 Measuremt True

GPSPOS FD Point ID 60000 Lat 36°03'20.28840"N Lng 115°01'24.44658"W
 Class Control Hgt 1657.677 Code NEW BASE_1_7_10
 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 5.151 Measuremt True

GPSREF KI Reference 60000

INIT	KI	Init event	Gained	Week	1580
		Init type	On the fly	seconds	143352.0
		Init counter	2	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 4-18-10 FG Toe ASB Stake.csv			
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F-CODE	KI	Code 3tol-2tol trans supp			
F-CODE	KI	Code 3tol-2tol trans supp			
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F-CODE	KI	Code 3tol-2tol trans supp			
F-CODE	KI	Code 3tol-2tol trans supp			

EQUIP	NM	Receiver	R8-2	Serial no	4906165952
		Antenna	R8 GNSS/SPS88x Internal		
		Meas To	Bottom of antenna mount	Serial no	<no text>
		Tape adj	0.000	V.Offset	0.213
		H.Offset	0.000		

NOTE	NM	Receiver firmware version=4.120			
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GPSANT	KI	Antenna ht	6.562	Measuremt	Uncorrected
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GPSVEC	SO	Point ID	3020542	DX	782.031	DY	-2634.769
		Class Stake out		DZ	-2709.411	Code	20542
		Obs L1 Fixed		H.pr	0.016	V.pr	0.020

GPSQC1	NM	Min SVs	18	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	7	VDOP max	0.8
		Monitor status	Not monitored	RMS	11.4
		Horz SD		Vert SD	
		Start wk	1580 sec 143521.4	End wk	1580 sec 143527.2

GPSQC2	NM	Ttl satellites	18	Err Scale	0.0077459668
		VCV xx	0.0000222496	VCV xy	0.00002046
		VCV xz	-0.0000067883	VCV yy	0.0000460537
		VCV yz	-0.0000134852	VCV zz	0.0000321597

PT DGN	SO	Name	20542	To the Point	
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GRID D	SO	Delta N	0.076	Delta E	0.032
		Delta Elv	-0.071		

GPSVEC	SO	Point ID	3020539	DX	823.789	DY	-2607.359
		Class Stake out		DZ	-2652.911	Code	20539
		Obs L1 Fixed		H.pr	0.015	V.pr	0.020

GPSQC1	NM	Min SVs	19	PDOP max	1.0
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.8
		Monitor status	Not monitored	RMS	12.3
		Horz SD		Vert SD	
		Start wk	1580 sec 143609.2	End wk	1580 sec 143614.2

GPSQC2	NM	Ttl satellites	19	Err Scale	0.0077459668
		VCV xx	0.0000215217	VCV xy	0.0000188939
		VCV xz	-0.0000076422	VCV yy	0.0000416481
		VCV yz	-0.0000141605	VCV zz	0.0000351101

PT DGN	SO	Name	20539	To the Point	
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GRID D	SO	Delta N	0.002	Delta E	-0.031
		Delta Elv	0.025		

GPSVEC	SO	Point ID	3020538	DX	727.255	DY	-2486.122
		Class Stake out		DZ	-2641.256	Code	20538
		Obs L1 Fixed		H.pr	0.016	V.pr	0.021

GPSQC1	NM	Min SVs	19	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	1580 sec 143840.2	End wk	1580 sec 143845.2

GPSQC2	NM	Ttl satellites	19	Err Scale	0.0077459668
		VCV xx	0.0000227025	VCV xy	0.0000205027
		VCV xz	-0.0000096257	VCV yy	0.0000456327
		VCV yz	-0.0000174125	VCV zz	0.000038787

PT DGN	SO	Name	20538	To the Point	
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GRID D	SO	Delta N	0.067	Delta E	-0.036
		Delta Elv	-0.095		
GPSVEC	SO	Point ID 3020537	DX 725.701	DY	-2483.479
		Class Stake out	DZ -2641.167	Code	20537
		Obs L1 Fixed	H.pr 0.015	V.pr	0.021
GPSQC1	NM	Min SVs	19	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	15.3
		Horz SD		Vert SD	
		Start wk 1580 sec 143900.6		End wk 1580 sec 143905.6	
GPSQC2	NM	Ttl satellites	19	Err Scale	0.0077459668
		VCV xx	0.0000223343	VCV xy	0.0000203263
		VCV xz	-0.0000098302	VCV yy	0.0000452976
		VCV yz	-0.0000177253	VCV zz	0.0000383826
PT DGN	SO	Name	20537	To the Point	
GRID D	SO	Delta N	0.078	Delta E	0.074
		Delta Elv	-0.066		
GPSVEC	SO	Point ID 3020540	DX 684.415	DY	-2510.422
		Class Stake out	DZ -2696.909	Code	20540
		Obs L1 Fixed	H.pr 0.015	V.pr	0.022
GPSQC1	NM	Min SVs	19	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	16.1
		Horz SD		Vert SD	
		Start wk 1580 sec 144053.6		End wk 1580 sec 144059.2	
GPSQC2	NM	Ttl satellites	19	Err Scale	0.0077459668
		VCV xx	0.0000225347	VCV xy	0.0000209144
		VCV xz	-0.0000108622	VCV yy	0.0000468624
		VCV yz	-0.0000195063	VCV zz	0.0000395632
PT DGN	SO	Name	20540	To the Point	
GRID D	SO	Delta N	0.016	Delta E	0.031
		Delta Elv	-0.090		
GPSVEC	SO	Point ID 3020541	DX 685.889	DY	-2512.997
		Class Stake out	DZ -2697.227	Code	20541
		Obs L1 Fixed	H.pr 0.015	V.pr	0.022
GPSQC1	NM	Min SVs	18	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	14.0
		Horz SD		Vert SD	
		Start wk 1580 sec 144098.6		End wk 1580 sec 144104.4	
GPSQC2	NM	Ttl satellites	18	Err Scale	0.0077459668
		VCV xx	0.0000221635	VCV xy	0.0000206357
		VCV xz	-0.0000109077	VCV yy	0.0000466642
		VCV yz	-0.0000197026	VCV zz	0.0000395842
PT DGN	SO	Name	20541	To the Point	
GRID D	SO	Delta N	0.029	Delta E	-0.032
		Delta Elv	0.037		
GPSVEC	SO	Point ID 1000	DX 655.544	DY	-2532.584
		Class Stake out	DZ -2738.345	Code	20544-20541-LINE
		Obs L1 Fixed	H.pr 0.015	V.pr	0.022
F-CODE	SO	Code 20544-20541-LINE	DUE TO ANCHOR WALL		
GPSQC1	NM	Min SVs	19	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	7	VDOP max	0.9
		Monitor status	Not monitored	RMS	13.5
		Horz SD		Vert SD	
		Start wk 1580 sec 144250.2		End wk 1580 sec 144255.8	
GPSQC2	NM	Ttl satellites	19	Err Scale	0.0077459668
		VCV xx	0.0000219745	VCV xy	0.0000209259
		VCV xz	-0.0000116898	VCV yy	0.0000474712
		VCV yz	-0.0000211495	VCV zz	0.000040028
LIN DGN	SO	Name	20544-20541	To the Line	
		Station	6.718	H.Offset	<null>
		Elv	<null>		
LIN D	SO	D Station	<null>	D Offset	0.030
		D Elev	-0.034	Grd to Line	1:-0.88
GRID D	SO	Delta N	-0.010	Delta E	0.028
		Delta Elv	-0.034		
GPSVEC	SO	Point ID 1001	DX 654.107	DY	-2530.106
		Class Stake out	DZ -2738.273	Code	20545-20540-LINE
		Obs L1 Fixed	H.pr 0.014	V.pr	0.022
F-CODE	SO	Code 20545-20540-LINE	DUE TO ANCHOR WALL		

GPSQC1	NM	Min SVs	18	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	15.6
		Horz SD		Vert SD	
		Start wk 1580 sec 144402.6		End wk 1580 sec 144408.2	
GPSQC2	NM	Ttl satellites	18	Err Scale	0.0077459668
		VCV xx	0.0000214101	VCV xy	0.0000209095
		VCV xz	-0.0000123935	VCV yy	0.0000471437
		VCV yz	-0.0000222611	VCV zz	0.0000395764
LIN DGN	SO	Name	20545-20540	To the Line	
		Station	7.120	H.Offset	<null>
		Elv	<null>		
LIN D	SO	D Station	<null>	D Offset	-0.061
		D Elev	-0.073	Grd to Line	1:-0.838
GRID D	SO	Delta N	0.021	Delta E	-0.057
		Delta Elv	-0.073		
GPSVEC	SO	Point ID 3020547	DX 625.024	DY	-2552.401
		Class Stake out	DZ -2779.989	Code	20547
		Obs L1 Fixed	H.pr 0.014	V.pr	0.022
GPSQC1	NM	Min SVs	19	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	7	VDOP max	0.9
		Monitor status	Not monitored	RMS	12.4
		Horz SD		Vert SD	
		Start wk 1580 sec 144486.4		End wk 1580 sec 144492.2	
GPSQC2	NM	Ttl satellites	19	Err Scale	0.0077459668
		VCV xx	0.0000206614	VCV xy	0.000020654
		VCV xz	-0.0000123105	VCV yy	0.0000467907
		VCV yz	-0.0000224126	VCV zz	0.0000393647
PT DGN	SO	Name	20547	To the Point	
GRID D	SO	Delta N	-0.058	Delta E	-0.074
		Delta Elv	-0.018		
GPSVEC	SO	Point ID 3020546	DX 623.594	DY	-2549.809
		Class Stake out	DZ -2779.742	Code	20546
		Obs L1 Fixed	H.pr 0.014	V.pr	0.023
GPSQC1	NM	Min SVs	18	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	0.9
		Monitor status	Not monitored	RMS	15.2
		Horz SD		Vert SD	
		Start wk 1580 sec 144547.8		End wk 1580 sec 144552.8	
GPSQC2	NM	Ttl satellites	18	Err Scale	0.0077459668
		VCV xx	0.0000222608	VCV xy	0.000022689
		VCV xz	-0.000013784	VCV yy	0.0000504954
		VCV yz	-0.0000247835	VCV zz	0.0000413366
PT DGN	SO	Name	20546	To the Point	
GRID D	SO	Delta N	0.004	Delta E	-0.030
		Delta Elv	-0.076		
GPSVEC	SO	Point ID 3020550	DX 582.873	DY	-2579.769
		Class Stake out	DZ -2837.345	Code	20550
		Obs L1 Fixed	H.pr 0.014	V.pr	0.024
GPSQC1	NM	Min SVs	18	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	13.6
		Horz SD		Vert SD	
		Start wk 1580 sec 144642.4		End wk 1580 sec 144648.4	
GPSQC2	NM	Ttl satellites	18	Err Scale	0.0077459668
		VCV xx	0.0000224267	VCV xy	0.0000231935
		VCV xz	-0.000014698	VCV yy	0.0000518059
		VCV yz	-0.000026431	VCV zz	0.0000431315
PT DGN	SO	Name	20550	To the Point	
GRID D	SO	Delta N	-0.026	Delta E	-0.059
		Delta Elv	-0.088		
GPSVEC	SO	Point ID 3020551	DX 581.210	DY	-2577.209
		Class Stake out	DZ -2837.407	Code	20551
		Obs L1 Fixed	H.pr 0.014	V.pr	0.024
GPSQC1	NM	Min SVs	18	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	11.3
		Horz SD		Vert SD	
		Start wk 1580 sec 144706.8		End wk 1580 sec 144711.8	
GPSQC2	NM	Ttl satellites	18	Err Scale	0.0077459668
		VCV xx	0.0000223793	VCV xy	0.000023034
		VCV xz	-0.0000150509	VCV yy	0.0000520163
		VCV yz	-0.0000271817	VCV zz	0.0000437519
PT DGN	SO	Name	20551	To the Point	

GRID D	SO	Delta N	-0.032	Delta E	0.035
		Delta Elv	-0.065		
GPSVEC	SO	Point ID 3021985	DX 573.234	DY -2586.731	
		Class Stake out	DZ -2851.469	Code 21985	
		Obs L1 Fixed	H.pr 0.014	V.pr 0.024	
GPSQC1	NM	Min SVs	18	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	13.6
		Horz SD		Vert SD	
		Start wk 1580 sec 144782.0		End wk 1580 sec 144787.0	
GPSQC2	NM	Ttl satellites	18	Err Scale	0.0077459668
		VCV xx	0.0000227247	VCV xy	0.0000236346
		VCV xz	-0.0000158149	VCV yy	0.0000533392
		VCV yz	-0.0000285763	VCV zz	0.0000448454
PT DGN	SO	Name	21985	To the Point	
GRID D	SO	Delta N	-0.040	Delta E	0.011
		Delta Elv	-0.009		
GPSVEC	SO	Point ID 3022000	DX 571.407	DY -2584.364	
		Class Stake out	DZ -2851.763	Code 22000	
		Obs L1 Fixed	H.pr 0.014	V.pr 0.024	
GPSQC1	NM	Min SVs	18	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	16.1
		Horz SD		Vert SD	
		Start wk 1580 sec 144836.2		End wk 1580 sec 144841.2	
GPSQC2	NM	Ttl satellites	18	Err Scale	0.0077459668
		VCV xx	0.0000226305	VCV xy	0.0000237576
		VCV xz	-0.0000161397	VCV yy	0.0000536461
		VCV yz	-0.0000292191	VCV zz	0.0000451009
PT DGN	SO	Name	22000	To the Point	
GRID D	SO	Delta N	0.013	Delta E	0.087
		Delta Elv	-0.046		
GPSVEC	SO	Point ID 3021984	DX 565.646	DY -2595.537	
		Class Stake out	DZ -2866.450	Code 21984	
		Obs L1 Fixed	H.pr 0.014	V.pr 0.024	
GPSQC1	NM	Min SVs	17	PDOP max	1.1
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	13.8
		Horz SD		Vert SD	
		Start wk 1580 sec 144899.0		End wk 1580 sec 144904.0	
GPSQC2	NM	Ttl satellites	17	Err Scale	0.0077459668
		VCV xx	0.0000209155	VCV xy	0.0000219994
		VCV xz	-0.0000145219	VCV yy	0.0000525827
		VCV yz	-0.0000279972	VCV zz	0.0000440211
PT DGN	SO	Name	21984	To the Point	
GRID D	SO	Delta N	0.097	Delta E	-0.111
		Delta Elv	-0.058		
GPSVEC	SO	Point ID 3022001	DX 563.653	DY -2593.069	
		Class Stake out	DZ -2866.918	Code 22001	
		Obs L1 Fixed	H.pr 0.014	V.pr 0.025	
GPSQC1	NM	Min SVs	17	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 1580 sec 144938.8		End wk 1580 sec 144943.8	
GPSQC2	NM	Ttl satellites	17	Err Scale	0.0077459668
		VCV xx	0.0000232866	VCV xy	0.0000253161
		VCV xz	-0.0000170417	VCV yy	0.0000573506
		VCV yz	-0.0000315154	VCV zz	0.0000466448
PT DGN	SO	Name	22001	To the Point	
GRID D	SO	Delta N	-0.053	Delta E	0.100
		Delta Elv	0.024		
GPSVEC	SO	Point ID 3021983	DX 560.102	DY -2605.176	
		Class Stake out	DZ -2881.510	Code 21983	
		Obs L1 Fixed	H.pr 0.014	V.pr 0.026	
GPSQC1	NM	Min SVs	17	PDOP max	1.2
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	7	VDOP max	1.1
		Monitor status	Not monitored	RMS	11.8
		Horz SD		Vert SD	
		Start wk 1580 sec 145063.4		End wk 1580 sec 145068.6	
GPSQC2	NM	Ttl satellites	17	Err Scale	0.0077459668
		VCV xx	0.0000246273	VCV xy	0.0000276324
		VCV xz	-0.0000193152	VCV yy	0.0000613403
		VCV yz	-0.0000352494	VCV zz	0.0000492474

PT DGN	SO	Name	21983	To the Point
GRID D	SO	Delta N	-0.025	Delta E -0.005
		Delta Elv	0.028	
NOTE	TS	Time Date	04/19/2010	Time 09:18:38
GPSVEC	SO	Point ID 3022002	DX 558.107	DY -2603.245
		Class Stake out	DZ -2882.304	Code 22002
		Obs L1 Fixed	H.pr 0.014	V.pr 0.026
GPSQC1	NM	Min SVs 17	PDOP max 1.2	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 1.1	
		Monitor status Not monitored	RMS 15.3	
		Horz SD	Vert SD	
		Start wk 1580 sec 145126.0	End wk 1580 sec 145131.4	
GPSQC2	NM	Ttl satellites 17	Err Scale 0.0077459668	
		VCV xx 0.0000245497	VCV xy 0.0000277575	
		VCV xz -0.000019778	VCV yy 0.0000620094	
		VCV yz -0.0000362721	VCV zz 0.0000502237	
PT DGN	SO	Name	22002	To the Point
GRID D	SO	Delta N	0.030	Delta E -0.035
		Delta Elv	-0.093	
GPSVEC	SO	Point ID 3021982	DX 556.826	DY -2615.960
		Class Stake out	DZ -2896.547	Code 21982
		Obs L1 Fixed	H.pr 0.014	V.pr 0.026
GPSQC1	NM	Min SVs 17	PDOP max 1.2	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 1.1	
		Monitor status Not monitored	RMS 12.5	
		Horz SD	Vert SD	
		Start wk 1580 sec 145202.4	End wk 1580 sec 145207.4	
GPSQC2	NM	Ttl satellites 17	Err Scale 0.0077459668	
		VCV xx 0.0000235887	VCV xy 0.0000272801	
		VCV xz -0.0000197701	VCV yy 0.000061702	
		VCV yz -0.0000366732	VCV zz 0.0000512358	
PT DGN	SO	Name	21982	To the Point
GRID D	SO	Delta N	-0.072	Delta E 0.005
		Delta Elv	0.036	
GPSVEC	SO	Point ID 3022003	DX 554.720	DY -2614.214
		Class Stake out	DZ -2897.647	Code 22003
		Obs L1 Fixed	H.pr 0.014	V.pr 0.027
GPSQC1	NM	Min SVs 17	PDOP max 1.2	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 5	VDOP max 1.1	
		Monitor status Not monitored	RMS 12.1	
		Horz SD	Vert SD	
		Start wk 1580 sec 145294.8	End wk 1580 sec 145300.4	
GPSQC2	NM	Ttl satellites 17	Err Scale 0.0077459668	
		VCV xx 0.000024843	VCV xy 0.0000288305	
		VCV xz -0.0000215437	VCV yy 0.0000651353	
		VCV yz -0.0000399605	VCV zz 0.0000541508	
PT DGN	SO	Name	22003	To the Point
GRID D	SO	Delta N	0.014	Delta E 0.025
		Delta Elv	-0.077	
GPSVEC	SO	Point ID 3022004	DX 553.685	DY -2626.034
		Class Stake out	DZ -2912.640	Code 22004
		Obs L1 Fixed	H.pr 0.014	V.pr 0.028
GPSQC1	NM	Min SVs 17	PDOP max 1.3	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 1.1	
		Monitor status Not monitored	RMS 14.7	
		Horz SD	Vert SD	
		Start wk 1580 sec 145381.0	End wk 1580 sec 145386.0	
GPSQC2	NM	Ttl satellites 17	Err Scale 0.0077459668	
		VCV xx 0.0000249919	VCV xy 0.000029259	
		VCV xz -0.0000222521	VCV yy 0.0000666511	
		VCV yz -0.0000416238	VCV zz 0.0000555929	
PT DGN	SO	Name	22004	To the Point
GRID D	SO	Delta N	-0.044	Delta E 0.055
		Delta Elv	-0.087	
GPSVEC	SO	Point ID 3021981	DX 555.869	DY -2627.679
		Class Stake out	DZ -2911.380	Code 21981
		Obs L1 Fixed	H.pr 0.014	V.pr 0.028
GPSQC1	NM	Min SVs 17	PDOP max 1.3	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 1.1	
		Monitor status Not monitored	RMS 13.0	
		Horz SD	Vert SD	
		Start wk 1580 sec 145448.6	End wk 1580 sec 145454.4	

GPSQC2	NM	Ttl satellites 17	Err Scale 0.0077459668
		VCV xx 0.0000249581	VCV xy 0.0000294766
		VCV xz -0.000022832	VCV yy 0.0000675199
		VCV yz -0.0000429278	VCV zz 0.0000569318
PT DGN	SO	Name 21981	To the Point
GRID D	SO	Delta N 0.004	Delta E -0.068
		Delta Elv 0.034	
GPSVEC	SO	Point ID 3021980 DX 557.174 DY -2639.884	
		Class Stake out DZ -2925.541 Code 21980	
		Obs L1 Fixed H.pr 0.014 V.pr 0.028	
GPSQC1	NM	Min SVs 17 PDOP max 1.3	
		Relative DOPs Yes HDOP max 0.6	
		Total GPS pos 6 VDOP max 1.2	
		Monitor status Not monitored RMS 12.4	
		Horz SD Vert SD	
		Start wk 1580 sec 145559.8 End wk 1580 sec 145564.8	
GPSQC2	NM	Ttl satellites 17 Err Scale 0.0077459668	
		VCV xx 0.0000247688 VCV xy 0.0000296557	
		VCV xz -0.0000235264 VCV yy 0.0000686446	
		VCV yz -0.0000446907 VCV zz 0.0000585943	
PT DGN	SO	Name 21980	To the Point
GRID D	SO	Delta N -0.093 Delta E -0.045	
		Delta Elv 0.052	
GPSVEC	SO	Point ID 3022005 DX 554.995 DY -2638.593	
		Class Stake out DZ -2927.221 Code 22005	
		Obs L1 Fixed H.pr 0.014 V.pr 0.028	
GPSQC1	NM	Min SVs 17 PDOP max 1.3	
		Relative DOPs Yes HDOP max 0.6	
		Total GPS pos 6 VDOP max 1.2	
		Monitor status Not monitored RMS 14.9	
		Horz SD Vert SD	
		Start wk 1580 sec 145638.2 End wk 1580 sec 145643.2	
GPSQC2	NM	Ttl satellites 17 Err Scale 0.0077459668	
		VCV xx 0.0000246844 VCV xy 0.0000298392	
		VCV xz -0.0000240277 VCV yy 0.0000695842	
		VCV yz -0.000045984 VCV zz 0.0000598499	
PT DGN	SO	Name 22005	To the Point
GRID D	SO	Delta N 0.062 Delta E 0.038	
		Delta Elv -0.078	
GPSVEC	SO	Point ID 3021979 DX 560.781 DY -2652.613	
		Class Stake out DZ -2938.998 Code 21979	
		Obs L1 Fixed H.pr 0.014 V.pr 0.029	
GPSQC1	NM	Min SVs 16 PDOP max 1.3	
		Relative DOPs Yes HDOP max 0.6	
		Total GPS pos 6 VDOP max 1.2	
		Monitor status Not monitored RMS 10.2	
		Horz SD Vert SD	
		Start wk 1580 sec 145739.2 End wk 1580 sec 145744.2	
GPSQC2	NM	Ttl satellites 16 Err Scale 0.0077459668	
		VCV xx 0.0000252033 VCV xy 0.0000310114	
		VCV xz -0.0000259592 VCV yy 0.0000724558	
		VCV yz -0.0000497802 VCV zz 0.000064656	
PT DGN	SO	Name 21979	To the Point
GRID D	SO	Delta N -0.079 Delta E -0.090	
		Delta Elv 0.060	
GPSVEC	SO	Point ID 3022006 DX 558.637 DY -2651.535	
		Class Stake out DZ -2940.910 Code 22006	
		Obs L1 Fixed H.pr 0.014 V.pr 0.029	
GPSQC1	NM	Min SVs 16 PDOP max 1.3	
		Relative DOPs Yes HDOP max 0.6	
		Total GPS pos 7 VDOP max 1.2	
		Monitor status Not monitored RMS 13.7	
		Horz SD Vert SD	
		Start wk 1580 sec 145800.4 End wk 1580 sec 145806.2	
GPSQC2	NM	Ttl satellites 16 Err Scale 0.0077459668	
		VCV xx 0.0000249358 VCV xy 0.0000309198	
		VCV xz -0.0000261696 VCV yy 0.0000726224	
		VCV yz -0.0000504661 VCV zz 0.0000652221	
PT DGN	SO	Name 22006	To the Point
GRID D	SO	Delta N 0.062 Delta E 0.029	
		Delta Elv -0.078	
GPSVEC	SO	Point ID 3022007 DX 564.605 DY -2664.653	
		Class Stake out DZ -2953.461 Code 22007	
		Obs L1 Fixed H.pr 0.014 V.pr 0.030	

GPSQC1	NM	Min SVs	15	PDOP max	1.4
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.2
		Monitor status	Not monitored	RMS	8.2
		Horz SD		Vert SD	
		Start wk 1580 sec 145877.0		End wk 1580 sec 145882.0	
GPSQC2	NM	Ttl satellites	15	Err Scale	0.0077459668
		VCV xx	0.0000258114	VCV xy	0.0000325027
		VCV xz	-0.0000275906	VCV yy	0.0000759268
		VCV yz	-0.0000532885	VCV zz	0.0000676596
PT DGN	SO	Name	22007	To the Point	
GRID D	SO	Delta N	-0.066	Delta E	-0.026
		Delta Elv	-0.081		
GPSVEC	SO	Point ID 3021999	DX 566.390	DY	-2665.502
		Class Stake out	DZ -2951.456	Code	21999
		Obs L1 Fixed	H.pr 0.014	V.pr	0.031
GPSQC1	NM	Min SVs	15	PDOP max	1.4
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.2
		Monitor status	Not monitored	RMS	12.7
		Horz SD		Vert SD	
		Start wk 1580 sec 145943.4		End wk 1580 sec 145948.4	
GPSQC2	NM	Ttl satellites	15	Err Scale	0.0077459668
		VCV xx	0.0000262525	VCV xy	0.0000333794
		VCV xz	-0.0000284572	VCV yy	0.0000780878
		VCV yz	-0.0000551969	VCV zz	0.0000694031
PT DGN	SO	Name	21999	To the Point	
GRID D	SO	Delta N	-0.030	Delta E	0.080
		Delta Elv	0.048		
GPSVEC	SO	Point ID 3022008	DX 572.653	DY	-2677.822
		Class Stake out	DZ -2965.003	Code	22008
		Obs L1 Fixed	H.pr 0.014	V.pr	0.031
GPSQC1	NM	Min SVs	15	PDOP max	1.4
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.3
		Monitor status	Not monitored	RMS	10.5
		Horz SD		Vert SD	
		Start wk 1580 sec 146025.8		End wk 1580 sec 146030.8	
GPSQC2	NM	Ttl satellites	15	Err Scale	0.0077459668
		VCV xx	0.0000264051	VCV xy	0.00003387
		VCV xz	-0.0000290939	VCV yy	0.000079868
		VCV yz	-0.000056907	VCV zz	0.0000710469
PT DGN	SO	Name	22008	To the Point	
GRID D	SO	Delta N	0.045	Delta E	-0.037
		Delta Elv	-0.005		
GPSVEC	SO	Point ID 3021978	DX 574.363	DY	-2678.514
		Class Stake out	DZ -2962.662	Code	21978
		Obs L1 Fixed	H.pr 0.014	V.pr	0.031
GPSQC1	NM	Min SVs	15	PDOP max	1.4
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	5	VDOP max	1.3
		Monitor status	Not monitored	RMS	14.8
		Horz SD		Vert SD	
		Start wk 1580 sec 146284.6		End wk 1580 sec 146289.6	
GPSQC2	NM	Ttl satellites	15	Err Scale	0.0077459668
		VCV xx	0.0000253566	VCV xy	0.000032717
		VCV xz	-0.0000286435	VCV yy	0.0000793835
		VCV yz	-0.0000570206	VCV zz	0.0000709138
PT DGN	SO	Name	21978	To the Point	
GRID D	SO	Delta N	-0.001	Delta E	-0.027
		Delta Elv	0.015		
GPSVEC	SO	Point ID 3020559	DX 581.493	DY	-2689.423
		Class Stake out	DZ -2973.888	Code	20559
		Obs L1 Fixed	H.pr 0.014	V.pr	0.031
GPSQC1	NM	Min SVs	16	PDOP max	1.4
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.3
		Monitor status	Not monitored	RMS	13.5
		Horz SD		Vert SD	
		Start wk 1580 sec 146367.2		End wk 1580 sec 146372.2	
GPSQC2	NM	Ttl satellites	16	Err Scale	0.0077459668
		VCV xx	0.0000250216	VCV xy	0.0000323246
		VCV xz	-0.000028452	VCV yy	0.000079204
		VCV yz	-0.0000569852	VCV zz	0.0000708293
PT DGN	SO	Name	20559	To the Point	
GRID D	SO	Delta N	0.090	Delta E	0.073
		Delta Elv	-0.090		

GPSVEC	SO	Point ID 3020558	DX 583.072	DY -2689.691
		Class Stake out	DZ -2971.280	Code 20558
		Obs L1 Fixed	H.pr 0.013	V.pr 0.031
GPSQC1	NM	Min SVs 16	PDOP max 1.4	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 7	VDOP max 1.3	
		Monitor status Not monitored	RMS 14.2	
		Horz SD	Vert SD	
		Start wk 1580 sec 146413.8	End wk 1580 sec 146419.6	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0077459668	
		VCV xx 0.0000246411	VCV xy 0.0000318848	
		VCV xz -0.0000281507	VCV yy 0.0000786038	
		VCV yz -0.0000566342	VCV zz 0.0000703155	
PT DGN	SO	Name 20558	To the Point	
GRID D	SO	Delta N 0.015	Delta E -0.064	
		Delta Elv 0.035		
GPSVEC	SO	Point ID 3021977	DX 595.855	DY -2703.498
		Class Stake out	DZ -2980.611	Code 21977
		Obs L1 Fixed	H.pr 0.013	V.pr 0.031
GPSQC1	NM	Min SVs 16	PDOP max 1.4	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 5	VDOP max 1.3	
		Monitor status Not monitored	RMS 14.5	
		Horz SD	Vert SD	
		Start wk 1580 sec 146481.6	End wk 1580 sec 146487.4	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0077459668	
		VCV xx 0.0000245431	VCV xy 0.0000318097	
		VCV xz -0.0000282012	VCV yy 0.0000791073	
		VCV yz -0.0000570816	VCV zz 0.0000708231	
PT DGN	SO	Name 21977	To the Point	
GRID D	SO	Delta N -0.024	Delta E 0.045	
		Delta Elv -0.015		
GPSVEC	SO	Point ID 3022009	DX 594.564	DY -2703.319
		Class Stake out	DZ -2983.389	Code 22009
		Obs L1 Fixed	H.pr 0.013	V.pr 0.031
GPSQC1	NM	Min SVs 16	PDOP max 1.4	
		Relative DOPs Yes	HDOP max 0.6	
		Total GPS pos 6	VDOP max 1.3	
		Monitor status Not monitored	RMS 15.1	
		Horz SD	Vert SD	
		Start wk 1580 sec 146535.0	End wk 1580 sec 146540.0	
GPSQC2	NM	Ttl satellites 16	Err Scale 0.0077459668	
		VCV xx 0.0000243093	VCV xy 0.0000315371	
		VCV xz -0.0000280435	VCV yy 0.0000789855	
		VCV yz -0.0000570345	VCV zz 0.0000707264	
PT DGN	SO	Name 22009	To the Point	
GRID D	SO	Delta N 0.132	Delta E -0.012	
		Delta Elv -0.011		
GPSVEC	SO	Point ID 3020561	DX 609.265	DY -2715.143
		Class Stake out	DZ -2987.036	Code 20561
		Obs L1 Fixed	H.pr 0.017	V.pr 0.027
GPSQC1	NM	Min SVs 18	PDOP max 1.2	
		Relative DOPs Yes	HDOP max 0.7	
		Total GPS pos 5	VDOP max 1.0	
		Monitor status Not monitored	RMS 12.5	
		Horz SD	Vert SD	
		Start wk 1580 sec 146629.6	End wk 1580 sec 146634.6	
GPSQC2	NM	Ttl satellites 18	Err Scale 0.0081789149	
		VCV xx 0.0000226639	VCV xy 0.0000288341	
		VCV xz -0.0000254162	VCV yy 0.0000746534	
		VCV yz -0.0000530399	VCV zz 0.0000662302	
PT DGN	SO	Name 20561	To the Point	
GRID D	SO	Delta N -0.098	Delta E -0.059	
		Delta Elv 0.001		
GPSVEC	SO	Point ID 3020560	DX 608.049	DY -2715.178
		Class Stake out	DZ -2989.916	Code 20560
		Obs L1 Fixed	H.pr 0.017	V.pr 0.027
GPSQC1	NM	Min SVs 18	PDOP max 1.2	
		Relative DOPs Yes	HDOP max 0.7	
		Total GPS pos 6	VDOP max 1.0	
		Monitor status Not monitored	RMS 15.5	
		Horz SD	Vert SD	
		Start wk 1580 sec 146668.0	End wk 1580 sec 146673.0	
GPSQC2	NM	Ttl satellites 18	Err Scale 0.0081223529	
		VCV xx 0.0000224745	VCV xy 0.0000285523	
		VCV xz -0.0000252376	VCV yy 0.0000743253	
		VCV yz -0.0000528304	VCV zz 0.0000660461	
PT DGN	SO	Name 20560	To the Point	

GRID D	SO	Delta N	0.082	Delta E	0.049
		Delta Elv	-0.066		

GPSVEC	SO	Point ID 3022010	DX 622.981	DY -2726.197
		Class Stake out	DZ -2994.608	Code 22010
		Obs L1 Fixed	H.pr 0.017	V.pr 0.027

GPSQC1	NM	Min SVs	18	PDOP max	1.2
		Relative DOPs	Yes	HDOP max	0.7
		Total GPS pos	6	VDOP max	1.0
		Monitor status	Not monitored	RMS	17.1
		Horz SD		Vert SD	
		Start wk 1580 sec 146732.8		End wk 1580 sec 146738.0	

GPSQC2	NM	Ttl satellites	18	Err Scale	0.0080399485
		VCV xx	0.00002223	VCV xy	0.000028218
		VCV xz	-0.0000249929	VCV yy	0.000074184
		VCV yz	-0.0000526611	VCV zz	0.0000658271

PT DGN	SO	Name	22010	To the Point
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GRID D	SO	Delta N	0.050	Delta E	0.083
		Delta Elv	-0.091		

GPSVEC	SO	Point ID 3021976	DX 623.977	DY -2726.066
		Class Stake out	DZ -2991.668	Code 21976
		Obs L1 Fixed	H.pr 0.017	V.pr 0.027

GPSQC1	NM	Min SVs	18	PDOP max	1.2
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.1
		Monitor status	Not monitored	RMS	17.7
		Horz SD		Vert SD	
		Start wk 1580 sec 146797.2		End wk 1580 sec 146802.2	

GPSQC2	NM	Ttl satellites	18	Err Scale	0.0079427129
		VCV xx	0.0000219052	VCV xy	0.0000277558
		VCV xz	-0.0000246283	VCV yy	0.0000737069
		VCV yz	-0.0000522279	VCV zz	0.0000653117

PT DGN	SO	Name	21976	To the Point
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GRID D	SO	Delta N	-0.075	Delta E	-0.100
		Delta Elv	-0.064		

GPSVEC	SO	Point ID 3020563	DX 639.193	DY -2736.215
		Class Stake out	DZ -2997.341	Code 20563
		Obs L1 Fixed	H.pr 0.017	V.pr 0.028

GPSQC1	NM	Min SVs	18	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.1
		Monitor status	Not monitored	RMS	15.7
		Horz SD		Vert SD	
		Start wk 1580 sec 146916.6		End wk 1580 sec 146922.2	

GPSQC2	NM	Ttl satellites	18	Err Scale	0.0077909473
		VCV xx	0.0000214888	VCV xy	0.0000270859
		VCV xz	-0.0000240967	VCV yy	0.0000733376
		VCV yz	-0.0000517103	VCV zz	0.000064766

PT DGN	SO	Name	20563	To the Point
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GRID D	SO	Delta N	-0.010	Delta E	0.001
		Delta Elv	-0.097		

NOTE	TS	Time Date 04/19/2010 Time 09:50:33
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GPSVEC	SO	Point ID 3022011	DX 656.275	DY -2745.058
		Class Stake out	DZ -2998.145	Code 22011
		Obs L1 Fixed	H.pr 0.013	V.pr 0.028

GPSQC1	NM	Min SVs	18	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	6	VDOP max	1.1
		Monitor status	Not monitored	RMS	16.9
		Horz SD		Vert SD	
		Start wk 1580 sec 147041.2		End wk 1580 sec 147046.2	

GPSQC2	NM	Ttl satellites	18	Err Scale	0.0077459668
		VCV xx	0.0000200708	VCV xy	0.0000246431
		VCV xz	-0.0000216929	VCV yy	0.000070243
		VCV yz	-0.0000480588	VCV zz	0.0000605855

PT DGN	SO	Name	22011	To the Point
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GRID D	SO	Delta N	-0.004	Delta E	-0.067
		Delta Elv	-0.079		

GPSVEC	SO	Point ID 3021986	DX 656.405	DY -2744.583
		Class Stake out	DZ -2995.244	Code 21986
		Obs L1 Fixed	H.pr 0.013	V.pr 0.029

GPSQC1	NM	Min SVs	18	PDOP max	1.3
		Relative DOPs	Yes	HDOP max	0.6
		Total GPS pos	7	VDOP max	1.1
		Monitor status	Not monitored	RMS	12.6
		Horz SD		Vert SD	
		Start wk 1580 sec 147121.2		End wk 1580 sec 147127.0	

GPSQC2 NM Ttl satellites 18 Err Scale 0.0077459668
VCV xx 0.0000204403 VCV xy 0.0000253165
VCV xz -0.0000225295 VCV yy 0.0000713547
VCV yz -0.0000494624 VCV zz 0.0000623017

PT DGN SO Name 21986 To the Point

GRID D SO Delta N 0.021 Delta E -0.003
Delta Elv -0.074

NOTE NM Following data imported from CAMU Controll.CSV

GPSVEC TP Point ID 1002 DX 387.513 DY -2674.190
Class Normal DZ -3064.305 Code CP-524-4-19-10PO
Obs L1 Fixed H.pr 0.013 V.pr 0.028

F-CODE TP Code CP-524-4-19-10POSTCHK

GPSQC1 NM Min SVs 18 PDOP max 1.3
Relative DOPs Yes HDOP max 0.6
Total GPS pos 7 VDOP max 1.2
Monitor status Not monitored RMS 16.3
Horz SD Vert SD
Start wk 1580 sec 147357.8 End wk 1580 sec 147363.6

GPSQC2 NM Ttl satellites 18 Err Scale 0.0077459668
VCV xx 0.0000199166 VCV xy 0.0000242101
VCV xz -0.0000216041 VCV yy 0.0000703073
VCV yz -0.000048081 VCV zz 0.0000611668

SURVEY EVENTKISurvey event Survey ended

NOTE TS Time Date 04/19/2010 Time 12:08:53

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 60000 Lat 36°03'20.28840"N Lng 115°01'24.44658"W
Class Control Hgt 1657.677 Code NEW BASE_1_7_10
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 5.151 Measuremt True

GPSREF KI Reference 60000

INIT KI Init event Gained Week 1580
Init type On the fly seconds 155367.0
Init counter 2 Point ID <no text>
Survey type Real Time Plate H.Dist <null>
Plate V.Dist <null> Plate azimuth <null>

EQUIP NM Receiver R8-2 Serial no 4906165952
Antenna R8 GNSS/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=4.120

GPSANT KI Antenna ht 6.562 Measuremt Uncorrected

GPSVEC SO Point ID 3020562 DX 639.750 DY -2735.778
Class Stake out DZ -2994.543 Code 20562
Obs L1 Fixed H.pr 0.015 V.pr 0.035

GPSQC1 NM Min SVs 14 PDOP max 1.5
Relative DOPs Yes HDOP max 0.6
Total GPS pos 6 VDOP max 1.4
Monitor status Not monitored RMS 13.6
Horz SD Vert SD
Start wk 1580 sec 155464.0 End wk 1580 sec 155469.0

GPSQC2 NM Ttl satellites 14 Err Scale 0.0077459668
VCV xx 0.000059293 VCV xy 0.000061676
VCV xz -0.0000490438 VCV yy 0.0000885033
VCV yz -0.0000649386 VCV zz 0.0000712539

PT DGN SO Name 20562 To the Point

GRID D SO Delta N -0.008 Delta E 0.007
Delta Elv 0.087

SURVEY EVENTKISurvey event Survey ended