

AZIMUTH CALCULATIONS FOR
STATIONS USED IN GRUM & VANGORDA
D.D.H. TRAVERSE SURVEY.
(MAY - JUNE 1981)

calc by: Dr John May
CHK'D by: Doug Amstrong

AZIMUTH CALCULATIONS FOR HIW 1405 TO HIW ~~140~~ 1406

	NORTHING	EASTING
HIW 1405	6905052.811	592712.796
HIW 1406	6905304.678	591986.529

DIFFERENCE: +251.867 -726.267

$$E/N = \tan \angle = 2.884$$

BEARING: N 70-52-25

AZIMUTH: 289-07-35

AZIMUTH CALCULATIONS FOR HIW 1456 TO HIW ~~1456~~ 1458

	NORTHING	EASTING
HIW 1456	6903005.639	594446.191
HIW 1458	6903257.861	594503.825

DIFFERENCE: +252.222 +57.634

$$E/N = \tan \angle = 0.229$$

BEARING: N 12-52-17 E

AZIMUTH: 12-52-17

AZIMUTH CALCULATION FROM HIW 1459 TO HIW ~~14~~ 1460

	NORTHING	EASTING
HIW 1459	6903174.255	594227.774
HIW 1460	6903311.784	594063.786

DIFFERENCE: + 137.529 -163.988

$$E/N = \tan \angle = -1.192$$

BEARING: N 50-00-54

AZIMUTH: 309-59-06

AZIMUTH CALCULATION FROM HIW 1422 TO HIW 1405

	NORTHING	EASTING
HIW 1422	6905018.124	592427.256
HIW 1405	6905052.811	592712.796

DIFFERENCE: + 34.687 +285.540

$$E/N = \tan \angle = 8.232$$

BEARING: N 83-04-25E

AZIMUTH: 83-04-25

AZIMUTH CALCULATIONS FROM HIW 1423 TO HIW ~~1423~~ 1422

	NORTHING	EASTING
HIW 1423	6904386.451	592190.211
HIW 1422	6905018.124	592427.256

DIFFERENCE: +631.673 +237.045

$E/N = \tan \angle = 0.375$

BEARING: N 20-34-10

AZIMUTH: 20-34-10

AZIMUTH CALCULATIONS FROM HIW 1424 TO HIW ~~1423~~ 1422

	NORTHING	EASTING
HIW 1424	6905084.011	592079.705
HIW 1422	6905018.124	592427.256

DIFFERENCE: -65.887 +347.551

$E/N = \tan \angle = 5.275$

BEARING: S 79-15-56 E

AZIMUTH: 100-44-04

AZIMUTH CALCULATIONS FROM HIW 1457 TO HIW 1424

	NORTHING	EASTING
HIW 1457	6903393.954	594925.154
HIW 1424	6905084.011	592079.705

DIFFERENCE: +1690.057 -2845.449

$$E/N = \tan \angle = 1.684$$

BEARING: N 59-17-30 W

AZIMUTH: 300-42-30

AZIMUTH CALCULATIONS FROM HIW 1490 TO HIW ~~1490~~ 1462

	NORTHING	EASTING
HIW 1490	6905759.334	591493.724
HIW 1462	6905934.536	594358.750

DIFFERENCE +175.202 +2865.026

$$E/N = \tan \angle = 16.353$$

BEARING: N 86-30-02 E

AZIMUTH: 86-30-02

Calc By: °

CHK'D By: DR. Amosworth