

## AE4Q, Rata Peaks

|                     |                                                |
|---------------------|------------------------------------------------|
| Project             | 2018 CSI GPS                                   |
| Created             | 2018-01-09 15:51:38 NZDT by Neville Palmer     |
| Updated             | 2018-02-15 22:57:30 NZDT by Neville Palmer     |
| Location            | -43.71485408, 171.0529653                      |
| Status              | <span style="color: green;">■</span> Retrieved |
| Geodetic Code       | AE4Q                                           |
| Station Name        | Rata Peaks                                     |
| Station Height (m)  | 492.3657                                       |
| Station Height (ft) | 1615                                           |

## Mark, Site & Photo Details

### Mark & Protection Details

|                                              |                                                                                                                                 |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Mark Type                                    | Stainless Steel Pin                                                                                                             |
| Mark Physical State                          | Reliable / Found                                                                                                                |
| Mark Description                             | This mark is used for deformation monitoring, do not alter the ground mark in any way. 12mm stainless steel pin epoxied in rock |
| Additional mark or site notes (GNS use only) | Jan 2018: mark covered in lichen hard to find                                                                                   |

### Plates & Plaques

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| ID Plaque (bronze)            | ID Plaque does Not Exist and was Not Installed  |
| ID Plate (aluminium)          | ID Plate does Not Exist and was Not Installed   |
| Information Plate (aluminium) | Info Plate does Not Exist and was Not Installed |

### Protection

|                      |               |
|----------------------|---------------|
| Primary Protection   | No Protection |
| Secondary Protection | No Protection |

### Beacon Details

|             |             |
|-------------|-------------|
| Beacon Type | Not Beacons |
|-------------|-------------|

### Height Details (all in metres)

|                                                                        |   |
|------------------------------------------------------------------------|---|
| Mark Ground Level Relationship in metres (+ve below GL / -ve above GL) | 0 |
|------------------------------------------------------------------------|---|

### Maintenance Completed and Required

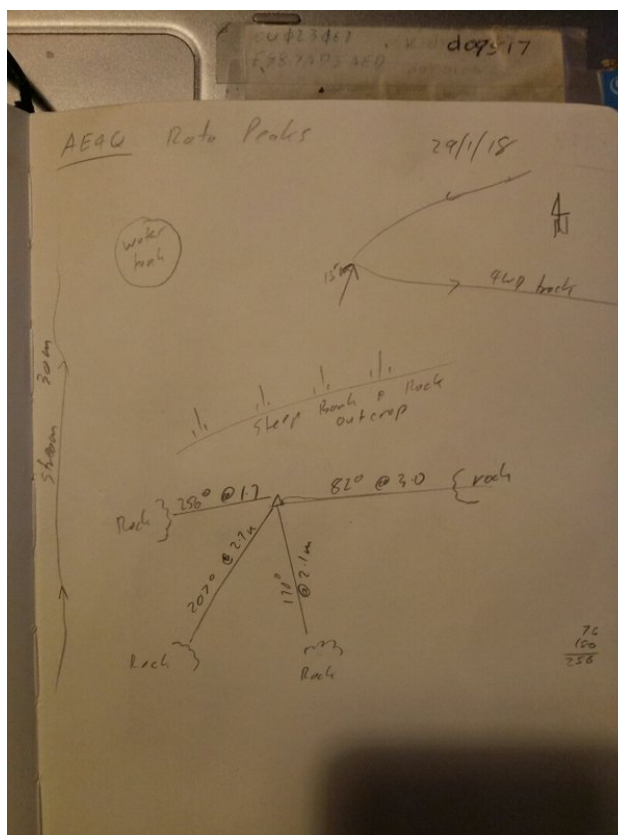
|                                  |    |
|----------------------------------|----|
| Mark Maintenance Completed       | No |
| Beacon Maintenance Completed     | No |
| Protection Maintenance Completed | No |
| Mark Maintenance Required        | No |
| Beacon Maintenance Required      | No |
| Protection Maintenance Required  | No |

### Verification

|                                                                                   |     |
|-----------------------------------------------------------------------------------|-----|
| Have all mark and protection fields above been updated or verified to be correct? | Yes |
|-----------------------------------------------------------------------------------|-----|

## Site & Access Details

Diagram



### Diagram Notes

GNS FB04 (29/1/2018)

Access and Location Description

Rata Peak Station - off Rangitata Gorge Rd. Turn left off Rangitata Gorge Rd up driveway. Continue to house and through left of 2 deer gates immediately behind the house. Then threew second deer gate ~100m ahead. Turn right and follow track past hen house and up hill (don't go towards GeoNet VSat dish). Mark is located in rock outcrop directly above sharp bend in track, above water tank and VSat shed.

## Cell Phone Network Coverage

## Spark

No signal or unreliable signal

Vodafone

Network signal not tested

2 Degrees

Network signal not tested

## Verification

Have all site & access fields above been updated or verified to be correct?

## Photographs

Photo of Survey Mark



Photo of Immediate Site



Photo of Extended Site



## Verification

Is there at least one photo taken for each field above?

Yes

Have any mark, site or photo details been updated or verified?

Yes - All details have been fully updated or verified.

Updated by:

Paul Denys

## Owner & Contact Details

## Owner & Contact

### Contact Details from the LINZ GDB

|               |                      |
|---------------|----------------------|
| Owner/Contact | Malcolm & Jan Taylor |
| Phone         | 03 696 3527          |
| Address       | Rata Peak Station,   |

### Contact Comments

|                                                        |                   |
|--------------------------------------------------------|-------------------|
| Access permission restrictions (to report in LINZ GDB) | Take handheld GPS |
|--------------------------------------------------------|-------------------|

### Owner

|                     |                    |
|---------------------|--------------------|
| Is the owner known? | Yes                |
| First Name          | Malcolm & Jan      |
| Last Name           | Taylor             |
| Address             | Rata Peak Station, |
| Phone               | 03 696 3527        |

### Site Contact

|                                   |               |
|-----------------------------------|---------------|
| Is the site contact person known? | Same as owner |
|-----------------------------------|---------------|

### Access Contact

|                                     |                      |
|-------------------------------------|----------------------|
| Is the access contact person known? | Same as site contact |
|-------------------------------------|----------------------|

### Verification

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Have all owner & contact fields above been updated or verified to be correct? | Yes                                                    |
| Have any owner or contact details been updated or verified?                   | Yes - All details have been fully updated or verified. |
| Updated by:                                                                   | Paul Denys                                             |

## Occupations

### AE4Q, 2018-01-29, 14:58, LINZ25, 0220267074, 5700, Trimble

|               |            |
|---------------|------------|
| Geodetic Code | AE4Q       |
| Station Name  | Rata Peaks |

### Deployment

|                      |                                            |
|----------------------|--------------------------------------------|
| Observer(s)          | Paul Denys, Jean-Louis Morrison            |
| GNSS Receiver        | LINZ25, 0220267074, 5700, Trimble          |
| GNSS Antenna         | LINZ25, 12652401, Zephyr Geodetic, Trimble |
| Antenna radome used? | NONE                                       |

### Plumbing

|                                          |        |
|------------------------------------------|--------|
| Antenna Mount or Monument                | Tripod |
| Set-up using a rotating optical plummet? | Yes    |
| Bubble Centred?                          | Yes    |
| Cross-hair on target?                    | Yes    |

|                   |     |
|-------------------|-----|
| Plummet Check OK? | Yes |
|-------------------|-----|

## Antenna Alignment

|                                            |     |
|--------------------------------------------|-----|
| Magnetic Declination (+ve east / -ve west) | 24  |
| Compass should read (magnetic bearing)     | 336 |
| Aligned to True North                      | Yes |

## Antenna Height

|                                  |                         |
|----------------------------------|-------------------------|
| Height Measured To               | Bottom of Notch (Slant) |
| 1st Notch Number                 | 4                       |
| 1st Height                       | 0.804                   |
| 2nd Notch Number                 | 1                       |
| 2nd Height                       | 0.803                   |
| 3rd Notch Number                 | 7                       |
| 3rd Height                       | 0.803                   |
| Check Height Units               | Decimal Inches          |
| Check Height                     | 31.61                   |
| Check Height Converted to Metres | 0.8029                  |

## Start Time

|                               |                               |
|-------------------------------|-------------------------------|
| Occupation Start Date (local) | 2018-01-29                    |
| Occupation Start Time (local) | 14:58                         |
| Occupation Start UTC          | Mon, 29 Jan 2018 01:58:00 GMT |
| Year and DoY (UTC)            | 2018-029                      |

## Battery Details

|                              |             |
|------------------------------|-------------|
| Number of batteries deployed | One         |
| ID of Battery 1              | 11-D        |
| Capacity of Battery 1 (Ahr)  | 24 Amp Hour |
| Voltage of Battery 1         | 12.6        |

This site is being deployed with multiple batteries. Please comment with all relevant details of the batteries deployed.

## Retrieval

|                                                        |                              |
|--------------------------------------------------------|------------------------------|
| Observer(s)                                            | Chris Pearson, Isaac Brennan |
| Was receiver logging on arrival?                       | No                           |
| Explain why receiver was not logging (eg Flat battery) | Flat batt                    |

## Battery Details

No batteries were recorded at deployment.

More than two batteries were recorded as deployed at this occupation. Comment below as necessary.

|                                    |       |
|------------------------------------|-------|
| ID of Battery 1                    | 11-D  |
| Voltage of Battery 1 at Deployment | 12.6  |
| Voltage of Battery 1 at Retrieval  | 11.89 |

## End Time

|                             |            |
|-----------------------------|------------|
| Occupation End Date (local) | 2018-02-02 |
|-----------------------------|------------|

|                             |                               |
|-----------------------------|-------------------------------|
| Occupation End Time (local) | 09:12                         |
| Occupation End UTC          | Thu, 01 Feb 2018 20:12:00 GMT |
| Year and DoY (UTC)          | 2018-032                      |

### Antenna Alignment

|                                            |     |
|--------------------------------------------|-----|
| Magnetic Declination (+ve east / -ve west) | 22  |
| Compass should read (magnetic bearing)     | 338 |
| Aligned to True North                      | Yes |

### Antenna Height

|                                       |                         |
|---------------------------------------|-------------------------|
| Height Measured To                    | Bottom of Notch (Slant) |
| 1st Notch Number                      | 6                       |
| 1st Height                            | 0.801                   |
| 2nd Notch Number                      | 1                       |
| 2nd Height                            | 0.805                   |
| 3rd Notch Number                      | 4                       |
| 3rd Height                            | 0.801                   |
| Check Height Units                    | Decimal Inches          |
| Check Height                          | 31.55                   |
| Check Height Converted to Metres      | 0.8014                  |
| Average Height recorded at Deployment | 0.8033                  |

### Plumbing

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Bubble Centred?                           | Yes                           |
| Cross-hair on target?                     | No                            |
| Magnetic bearing from mark to cross-hair. | 250                           |
| Distance in mm from mark to cross-hair    | 0.6                           |
| Explain why cross-hair is not on target.  | Settlement during rain storm? |
| Plummet Check OK?                         | Yes                           |

### Gns3, 70740290.t01, 70740310.t01

|                                                                       |                                                    |
|-----------------------------------------------------------------------|----------------------------------------------------|
| Current Station                                                       | AE4Q - Rata Peaks                                  |
| Station Occupation times (UTC)                                        | Start: 01:58 DoY 029 UTC<br>End: 20:12 DoY 032 UTC |
| ID of Download Device                                                 | Gns3                                               |
| Download Date                                                         | 2018-02-02                                         |
| Record the first and last file name of the block of files downloaded. |                                                    |
| Earliest File Name Downloaded                                         | 70740290.t01                                       |
| Latest File Name Downloaded                                           | 70740310.t01                                       |
| Total number of files downloaded.                                     | 3                                                  |

### Summary of Downloaded Files

|                               |              |
|-------------------------------|--------------|
| Earliest Filenames Downloaded | 70740290.t01 |
| Latest Filenames Downloaded   | 70740310.t01 |
| Numbers of files Downloaded   | 3            |

For each block of downloaded files there will be an earliest and latest file downloaded, plus the total number of files downloaded. Typically there will only be one download block per occupation. Occasionally a receiver will be downloaded several times during an occupation (eg during an extended semi-cGPS occupation). In this instance there will be multiple earliest, latest, and number of files downloaded. These are summarised in the comma delimited lists above.

---