

## **SOLO GEOPHYSICS & CO.**

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### **Daily Field Report for Zeehan Gravity Surveys, April 2006**

Client: Zeehan Zinc Pty. Ltd.

Area: Zeehan, west coast Tasmania

Grid: Austral, Comstock

Survey: Gravity and GPS / optical levelling

Crew: Brian Rau, Claudius Reiman

Equipment: LaCoste #556 gravity meter, Leica 1200 series dual frequency RTK GPS and radio links, optical leveling equipment for non GPS areas. Computer and processing software.

Vehicle: Toyota 4WD hire vehicle

Accommodation: Cecil Hotel

Survey datum: AMG66 zone 55

Client Representative: Paul Heath

April 5th

Zeehan, Austral Grid

Big storm today, too wet to work, rain and hail and howling winds.

April 6th

Zeehan, Allison Pit

More storms with breaks in rain and hail, gale force winds.

GPS leveled Allison Pit and surrounds for gravity terrain corrections.

April 7th

Zeehan, Austral Grid

Too wet and windy with big seismic noise, more data processing.

April 8th

Zeehan, Austral Grid

Gravity at 25m stations and 50m line spacing

More rain showers and still seismic noise,

Gravity stations 100552 to 100610.

Around dumps on road side, thick trees and slippery slopes.

April 9th

Zeehan, Austral Grid

Gravity at 25m stations and 50m line spacing

More rain showers and still seismic noise,

Gravity stations 100612 to 100666

April 10th  
Zeehan, Austral Grid  
Gravity at 25m stations and 50m line spacing  
Perfect day, no rain no seismic noise  
Gravity stations 100667 to 100738

April 11th  
Zeehan, Austral Grid  
Gravity at 25m stations and 50m line spacing  
Very windy day 25 to 30 knots  
Gravity stations 100739 to 100796  
Big day in the hills with steep slippery slopes.

April 12th  
Zeehan, Austral Grid  
Gravity at 25m stations and 50m line spacing  
Rain and seismic noise again  
Gravity stations 100797 to 100827  
Finished last of slopes into gorse and blackberry bushes.  
**Completion of Austral grid today.**  
Additional infill stations in missing areas not possible due to dense gorse bush,  
blackberry bush and dense tree cover on western side of grid near creek and highway.

April 13th  
Zeehan, Allison Pit Grid  
Start of Comstock pit area, morning rains.  
Gravity at 10m stations and 10m line spacing  
Gravity stations 350001 to 350058

April 14<sup>th</sup>  
Zeehan, Allison Pit Grid  
Comstock pit area.  
Gravity at 10m stations and 10m line spacing  
No seismic noise, slow wet day  
Gravity stations 350059 to 350077

April 15th  
Zeehan, Allison Pit Grid  
Comstock pit area.  
Rain showers only today  
Gravity at 10m stations and 10m line spacing  
Gravity stations 350078 to 350167

April 16th

Zeehan, Allison Pit Grid  
Comstock area.  
Siesmic noise again today  
Gravity at 10m stations and 10m line spacing  
Gravity stations 350168 to 350265

April 17th  
Zeehan, Allison Pit Grid  
Comstock area, Allison Pit  
No seismic noise today, fine day  
Gravity at 10m stations and 10m line spacing  
Gravity stations from 350266 to 350327  
Too windy to continue on hillside, moved into Allison Pit  
Gravity stations 360001 to 360023

April 18th  
Zeehan, Allison Pit Grid  
Siesmic noise again today  
Comstock pit area.  
Gravity at 10m and 20m stations to infill pit areas and benches where accessible.  
Careful progress in mine areas.  
Gravity stations 360024 to 360062

April 19th  
Zeehan, Allison Pit Grid  
Heavy Rains today, too wet in the field.

April 20th  
Zeehan, Allison Pit Grid  
Gravity at 10m and 20m stations .  
Siemic noise today and more rain.  
Gravity stations 360063 to 360075  
Too wet to continue with rain, hail and gale force winds.

April 21st  
Zeehan, Allison Pit Grid  
Gravity at 10m and 20m stations .  
Seismic noise large today, waiting for it to subside.  
Gravity stations 360076 to 360129

April 22nd  
Zeehan, Allison Pit Grid  
Gravity at 10m and 20m stations .  
Gravity stations 360130 to 360200

April 23rd

Zeehan, Allison Pit Grid  
Gravity at 10m and 20m stations .  
Gravity stations 360201 to 360289

April 24th  
Zeehan, Allison Pit Grid  
Gravity at 10m and 20m stations .  
Gravity stations 360290 to 360355  
Comstock Grid  
Gravity at 10m by 10m stations .  
Gravity stations 350328 to 350353

April 25th  
Zeehan, Allison Pit Grid  
Comstock Grid  
Gravity at 10m by 10m stations .  
Gravity stations 350354 to 350393

April 26th  
Zeehan, Allison Pit Grid  
Comstock Grid  
Big earthquake in Samoa last night  
Gravity stations 360427 to 350501  
Seismic shock during day for 1 hour, took a lunch break.

April 27th  
Zeehan, Allison Pit Grid  
Surveyed Allison drill collars after morning emails.  
Then Gravity stations 360356 to 360384  
½ day client standby and ½ day survey

April 28th  
Zeehan, Allison Pit Grid  
Loop line from Boss mine over Balstrup fault.  
Gravity stations 360390 to 360454

April 29th  
Zeehan, Allison Pit Grid  
Gravity stations 360456 to 360525

April 30th  
Zeehan, Allison Pit Grid  
Rain day too wet to work, paperwork processing

Summary of survey days:

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Survey datum: AMG66 zone 55

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May 1st

Zeehan, Allison Pit Grid

Gravity at 10m and 20m stations .

Gravity stations 360526 to 360621

May 2nd

Zeehan, Allison Pit Grid

Gravity at 10m and 20m stations .

Very windy and rain today, tried to work in bad conditions.

Gravity stations 360622 to 360633

Gave up as too difficult.

Rain day

May 3rd

Zeehan, Allison Pit Grid

Heavy rains today, too wet to work, returned to Zeehan.

May 4th

Zeehan, Allison Pit Grid

Gravity at 10m and 20m stations .

Siemic noise today and more rain.

**Have completed 327 stations at 25m intervals or 8.2 km of lines**  
**Have completed 917 stations at 10m interval or 9.2km of lines**  
(some at 20m intervals)

Travel: April  
Survey: April 6,8,9,10,11,12,13,14,15,16,17,18,21,22,23,24,25,26, 1/2 of 27,28,29  
Standby: April 1/2 of 27  
Bad weather: April 5,7,19,20,30

For Solo Geophysics & Co.

Brian Rau

May 5th

Zeehan, Allison Pit Grid

Gravity at 10m and 20m stations .

Seismic noise , meter unreadable after big Tonga earthquake of 6.8 to 7.1

Heavy rains early morning.

Surveyed drill holes

Standby day

May 6th

Zeehan, Allison Pit Grid

Gravity at 10m and 20m stations .

Powerline traverse at 10m stations to locate faults.

Gravity stations 360635 to 360688

May 7th

Zeehan, Allison Pit Grid

On site at grid, rain too much to survey today.

May 8th

Zeehan, Allison Pit Grid

Gravity at 10m and 20m stations .

Wet day, completed lines from tramway to Boss area.

Gravity stations 360689 to 360731

Completion of first part of Comstock Allison Pit areas.

May 9th

Zeehan, Oceana Grid

Very wet and windy, looked over Oceana grid for survey access.

Too difficult an area to work in heavy rain.

Rain day

May 10th

Zeehan, Oceana Grid

Nice day good progress.

Gravity at 20m stations along tracks and easy access to define area.

Gravity stations 400001 to 400093

May 11th

Zeehan, Oceana Grid

Gravity at 20m stations into bush, poor access with mining debris.

Rain showers

Gravity stations 400094 to 400122

May 12th

Zeehan, Oceana Grid

Gravity at 20m stations along tracks and 10m on detail line over old mine to define area.

Gravity stations 400123 to 400164

May 13th

Zeehan, Oceana Grid

Too wet today.

May 14th

Zeehan, Oceana Grid

Gravity at 20m stations to define area.

Gravity stations 400165 to 400197

Southern area infill, slow going wet areas and sink holes.

May 15th

Zeehan, Oceana Grid

Gravity at 20m stations to define SE infill area, no tracks, thick bush.

Gravity stations 400198 to 400232

May 16th

Zeehan, Oceana Grid

Gravity at 20m stations to define southern infill area.

Gravity stations 400233 to 400288

May 17th

Zeehan, Oceana Grid

Gravity at 20m stations to define area.

Gravity stations 400289 to 400314

Into eastern grid, numerous old deep pits full of water.

May 18th

Zeehan, Oceana Grid

Gravity at 20m stations to define area.

Gravity stations 400315 to 400362

May 19th

Zeehan, Oceana Grid

Gravity at 20m stations to define area.

Gravity stations 400363 to 400393

Infill on gravity high on western slopes

Rain showers today

May 20th

Zeehan, Oceana Grid

Gravity at 20m stations to define area.

Gravity stations 400394 to 400456

Infill on gravity high on western slopes

Rain showers today



May 21st

Zeehan, Oceana Grid

Gravity at 20m stations to define area.

Rain front today, paperwork, maps as too wet to survey.

Summary of survey days:

**Have completed 655 stations**

(some at 10m intervals)

Travel: April

Survey: May 1,6,8,10,11,12,14,15,16,17,18,19,20

Standby: May

Bad weather: May 2,3,4,5,7,9,13,21

For Solo Geophysics & Co.

Brian Rau

