WINNIE GRAVITY SURVEY

ATP Eromanga Basin, QLD – Australia

ATP940

Operational Report

Volume 1 of 1

Prepared for

DRILLSEARCH ENERGY LIMITED

By

WesternGeco
Integrated EM Center of Excellence
Milan, Italy

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Revision History

Rev. No.	Effective Date	Description	Prepared by	Reviewed by	Approved by
01	19 December 2012	First version	Aldo Ambrogio		
	22 January 2013	Final version	Aldo Ambrogio	Jairo Sedano	Jairo Sedano

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1 INTRODUCTION

Under contract from DRILLSEARCH ENERGY LTD and SCHLUMBERGER AUSTRALIA PTY LTD, WesternGeco's Integrated EM Center of Excellence carried out a gravity survey in the ATP940 permit area, on a 3D seismic survey area of about 1000 km2 (Fig.1).

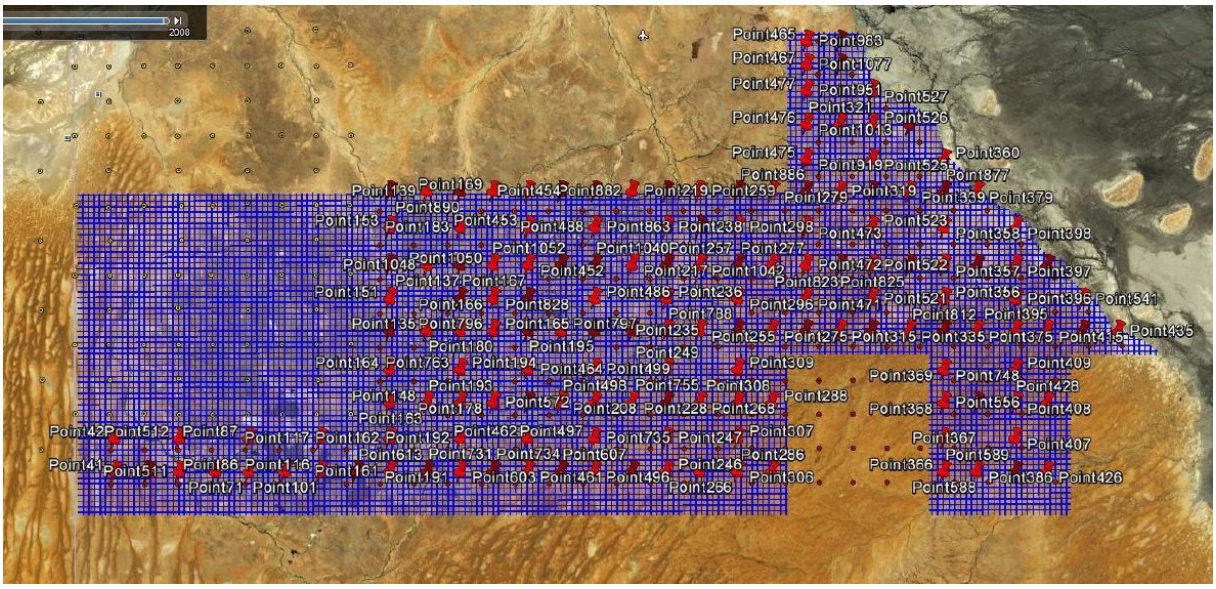

Figure 1: Gravity station preplot on the 3D seismic grid

Gravity and dGPS surveying data were acquired by #2 crews based at the seismic crew (WesternGeco Crew 1160) camp.

All data processing QC was performed on site, at the office base camp.

Project name:	27101_Drillsearch Energy Ltd Gravity survey
Survey areas:	Eromanga Basin, QLD – Australia
Survey Period:	November 26th to December 4th , 2012
Survey Type:	Gravity
Client:	Drillsearch Energy Limited
Report Type:	Survey logistics, methodology description, survey parameters, data QC and processing of NON-seismic method

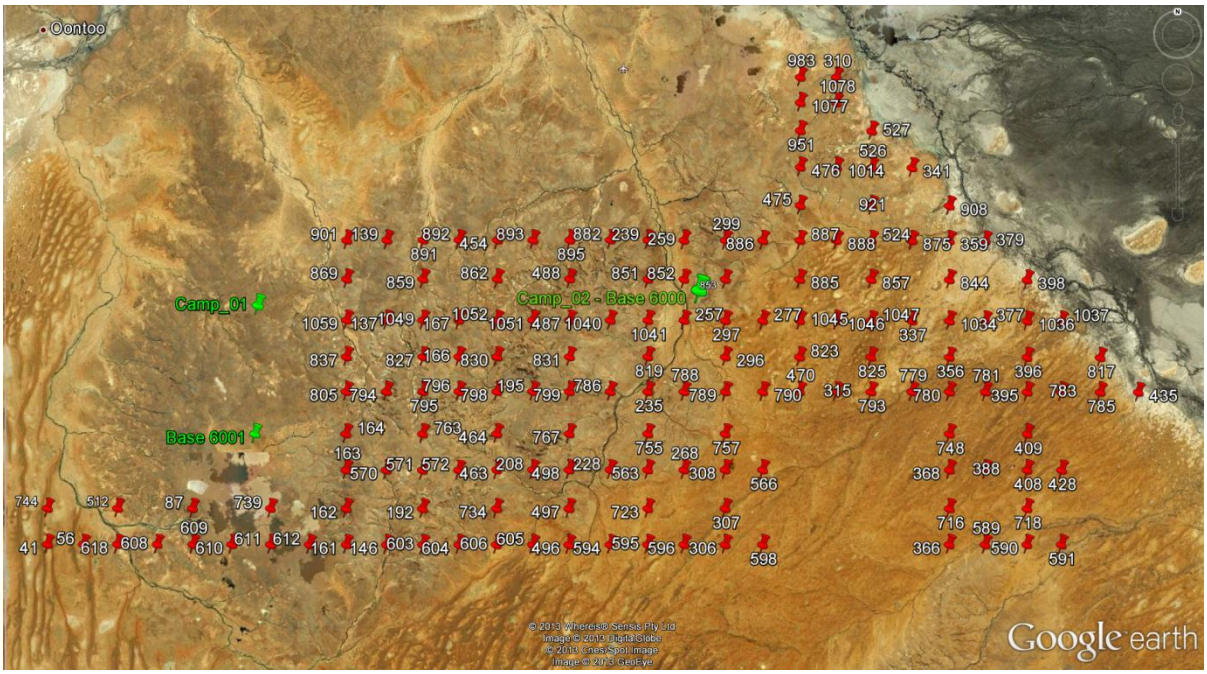

Figure 2: Gravity stations grid and local gravity and surveying base locations

2 GENERAL SURVEY DETAILS

2.1 LOCATION

General Location:	Eromanga basin – QLD, Australia
Base camp (for personnel accommodation, project management, data processing, instrument maintenance, and battery charging):	Base camp 2 – Ballera (Fig.2)

2.2 COORDINATES SYSTEM

Coordinates system:	Group Key:	Australian MGA Coordinate System
	Coordinates Sys Key	MGA Zone 54
	Unit Key:	Meters
	Unit Factor:	1
	Projection:	Transverse Mercator
	False Easting:	500 000
	False Northing:	1 000 000
	Latitude Origin:	00°00'00.000m N
	Central meridian:	141°00'00.000m N
	Scale factor	0.9996
	Datum:	GDA94 – Australia
	Ellipsoid:	GRS 1980
	Datum:	WGS84
	Spheroid:	WGS84
Elevation	Orthometric:	dGPS survey DEM, in meters relative to mean sea level
	Geoid Model:	AUSGEOID09_QLD-S_5716905_01

2.3 SURVEY GRID

Gravity station spacing:	156 stations on 3D seismic grid

3 HSE SUMMARY

3.1 SAFETY INDUCTION

Schlumberger-WesternGeco QHSE System	
	As requested by the Schlumberger QHSE System, all personnel were subject to: - Specific health screening to certify their "Fitness to Work" - specific trainings, which included First Aid, Vehicle passenger, Electrical Safety, Fire Prevention and Combat, Food Handling, Hazardous Substances Handling, Use of Personal Protective Equipment, Ergonomics and Load Handling, Schlumberger Injury Prevention Training.
	All drivers were SLB approved, after carrying out the approved defensive driving training (SMARRRT Drive Certificate+ Commentary Driving, which has been done at the location to to emphasize on specific project terrain)

3.2 SAFETY STATISTICS

Industry Recognized (SLB) -- Occupational Injuries & Illnesses	Number
Fatalities (fatalities in fatal incidents)	0
LWDC - Lost Work Days Cases	0
LD - Lost Days	0
RWDC - Restricted Work Day Cases	0
RD - Restricted Days	0
TDL - Total Days Lost (LD + RD)	0
MC - Medical Treatment Cases	0
FAC - First Aid Cases	0
Life Loss	
Life Loss - Total	0
General HSE Events	
Catastrophic	0
Major	0
Serious	0
Light	0
Near Accidents	0
Hazardous Situations	0
Regulatory Recordable Incidents	0
Automotive	

Total AA's - Automotive Accidents (CMS)	0
Supporting Data	
Vehicles (Light and Heavy Vehicles)	2
Vehicles with Working Monitors	2
Headcount - Total (Employees + Contractors)	4
Man Hours - Total	500

All the access and survey trips were carried out in accordance with the Project Journey Management Plan, addressing location specific risks; the field crews had daily pre-determined journey plans.

The seismic crew Journey Manager was in charge of ensuring that established practices were followed, and the crew location monitored continuously. Daily plans and access routes were discussed each morning at the toolbox meetings.

During the project, working schedule was 7/7 , 5 weeks on and 2 weeks off rotation.

During the whole survey no relevant HSE incident have been reported. The main incidents (light) were related to vehicles driving (flat tires) related to bad driving conditions.

4 SURVEY SPECIFICATIONS

4.1 OPERATIONS

Survey Dates	November 26th to December 4th, 2012
Survey Production Days	9
Mobilization/Demobilization Days	November 22nd, 2012 December 5th , 2012
Surveyed stations: **(coordinates list in Appendix A)**	156 Gravity
Gravity stations per day:	From 4 to 36 (average 19)
Number of crews for AMT/MT production:	2 crews.
Mode of access to sites:	4WD on gravel roads and seismic line tracks
Stations Surveying:	Trimble dGPS base an rover units
Contact between crews and base:	VHS radio and Sat Phones

4.2 PERSONNEL

Party Chief, Data processor QC, Gravity Operator	Aldo Ambrogio
Gravity /Surveying Operators	Jesse Lewis Paul Fitzpatrick James Steel

4.3 GRAVITY ACQUISITION PARAMETERS

Data acquisition:	Gravity stations
Equipment:	Scintrex CG-5 Autograv
Earth Tide Corrected residual Gravity maximum drift	0.1 mGal
Drift and tide corrected Observed Gravity repeatability	0.1 mGal
Stations repeat rate	3%

4.4 GRAVITY AND SURVEYING RTK GPS DATA ACQUISITION

Applied Technique :	Gravity stations along seismic lines Differential GPS, Fast Static.
Equipment:	# 2 Scintrex CG-5 Autograv # 3 Trimble R7 GNSS GPS receiver # 3 Trimble Zephyr Model 2 antenna

Surface gravity was observed on a 4 by 2 km grid (Fig.2). Minor positioning shift were made to keep the final station position on the seismic tracks in order to accomplish the local Cultural Heritage recommendations. Fast static gps technique was used to obtain the site coordinates.

Standard field operations were based on # 2 independent survey teams both with # 2 operators in order to acquire gravity and dGPS data. Each team leader was using handheld GPS units in order to navigate to the point and assist final finding of the stations.

Data acquisition started on November 26th and ended on December 4th, with no interruptions (Fig.3).

Gravity survey						Statistics			Statistics		
Date	Team 1		Team 2		Comments	Daily New Stations	Monthly Stations Observed	Prospect Stations Observed	Daily Station repeated	Monthly Stations repeated	Prospect Station repeated
	Daily New Stations	Daily repeated stations	Daily New Stations	Daily repeated stations							
26-Nov-12	4	1	8			12	12	**12**	1	1	**1**
27-Nov-12			4	1	Team 1 transfer GPS reference base from Camp1 to Camp 2	4	16	**16**	1	2	**2**
28-Nov-12	8	2	3	1	Team 2 transfer Gravity value from AFGN station in Innamincka to Camp 2	11	27	**27**	3	5	**5**
29-Nov-12	17	4	19	1		36	63	**63**	5	10	**10**
30-Nov-12	17	1	11	1	Team 2 network bases tie (6000-6001)	28	91	**91**	2	12	**12**
1-Dec-12	21	2	4	1	Team 2 network bases tie (base 6001 to AFGN station in Innamincka)	25	25	**116**	3	3	**15**
2-Dec-12	18	3	13	3		31	56	**147**	6	9	**21**
3-Dec-12	9	10			# 8 stations repeated for GPS surveying check	9	65	**156**	10	19	**31**
4-Dec-12		6			# 6 stations repeated for GPS surveying check	0	65	**156**	6	25	**37**

Figure 3: Survey history

Total of 156 gravity stations were measured 9 working days with an average of 19 stations per day. A local gravity Base Network was established on the area and tied with the closest AFGN Station located in the village of Innamincka, SA.

During every production day, gravity reading "loops" were tied to a gravity base of the Base Network. Loop closure readings on the base were performed four times a day. Furthermore gravity readings were performed at the beginning and at the end of every acquisition day on a base established at camp location. None of the acquired loops showed abnormal gravity meter drift or closure values higher than 0.1 mGal.

4.5 SURVEYING

As mentioned, each field team was equipped with dGPS receiver in order to acquire gravity station coordinates using FastStatic survey mode.

4.5.1 SURVEY CONTROL AND PARAMETERS

Two control base dGPS stations (6000 and 6001) were available within the survey area from the seismic surveying. The stations were located at Base Camp 1 and Base Camp 2 respectively and were part of the gravity base network. The coordinate's reference used during the survey was UTM-WGS84, converted, in a post processing step, to the geodetic following parameters:

Geographic Coordinates:		
	Datum:	GDA94_01Sept2012
	Type:	Bursa
	Ellipsoid:	GRS1980
	Major semi-axis:	6378137.000m
	First eccentricity squared:	0.006694379990
	Flattering:	298.25722101
Metric Coordinates:		
	Projection:	Australian MGA Coordinates System
	Zone:	MGA Zone 54
	Unit Key:	Meters
	Unit Factor:	1
	Projection:	TM
	False Easting:	500000
	False Northing	1000000
	Latitude origin:	000 00 00.000 N
	Central Meridian:	141 00 00.000 N
	Scale Factor at Origin:	0.9996
Elevation	Height Adjustment:	AUSGEOID09_QLD-S_5716905_01.grd

4.5.2 FAST STATIC SURVEYING

The Fast Static survey was performed using Trimble R7 (dual frequency geodetic receiver – GNSS enabled) with Trimble Survey Controller 2 (TSC2). In the survey controllers TSC2, criteria for rejection of data were set up to ensure that the final position achieved the requested accuracy. The system would record the values automatically, as soon as the specified parameters were satisfied. The parameters were a minimum of 5 satellites, mask angle 15° above horizon and acquisition duration (depending from the minimum number of satellite).

4.5.3 PROCESSING RESULTS AND QUALITY CONTROL

The survey software used for Fast Static mode was TBC (Trimble Business Center) version 1.5. The data acquired in the field were checked against the technical GPS criteria. Once the data quality was satisfactory the data were incorporated into the survey database. In the database, additional analyses were run to determine the displacement against the pre-planned coordinates, as well as any missing station. If the quality or differences from the pre-plot were out of acceptable range, field re-observations would be done.

4.6 GRAVITY METER TESTS

Before production, instrument checks were performed

- Overnight drift test to check the internal meter drift
- Short Base Line Test to check readings repeatability

4.6.1 Overnight Drift Test

The change of the length of the gravimeter spring – approximately a linear stretching over time – produces an apparent change in the gravity measurements over the time, predictable when linear. This aspect of the gravimeter performance QC is checked through a so-called "Drift test" usually performed overnight. The Scintrex CG-5M meters provide an internal software compensation of this drift, based on a user-provided estimate on the drift rate obtained by the drift-test (mGal/day). Examples of drift tests for the meters used during the survey follows (**Figure 5**).

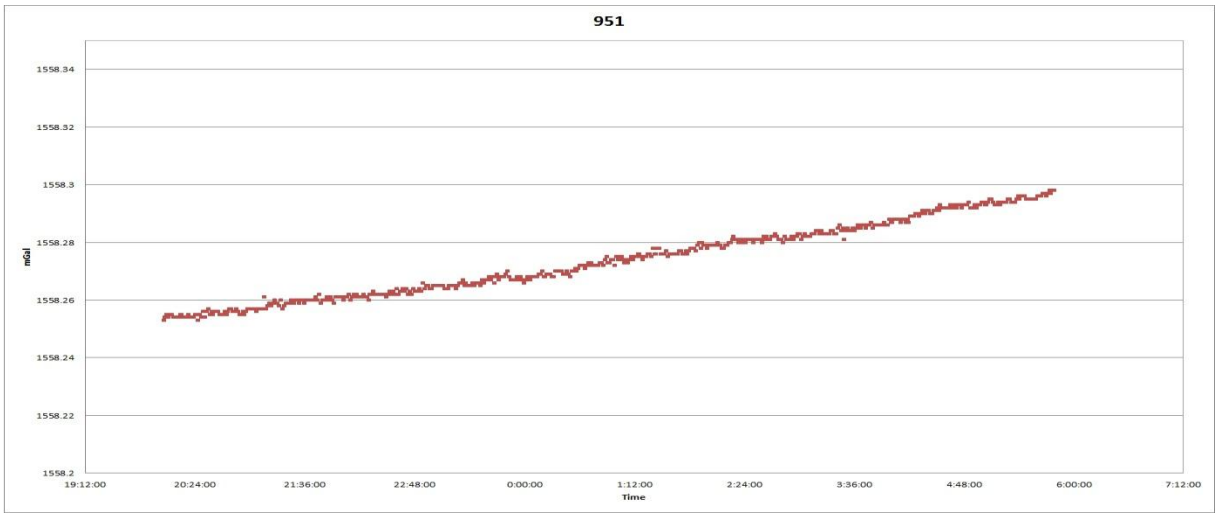

Figure 4. Drift test for gravimeter Scintrex CG5 40951

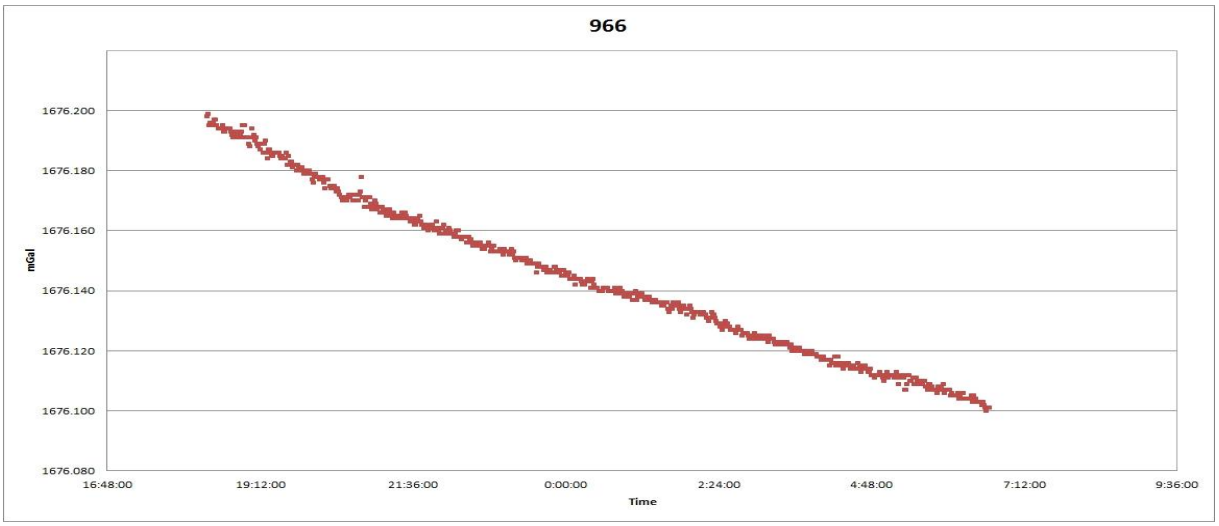

Figure 5. Drift test for gravimeter Scintrex CG5 40966

4.6.2 Short and Long Baseline Test

The test are carried to check data repeatability and stability. The short baseline test is usually carried out at the camp. Gravity meter stability is tested over a two stations at 30-50 m distance. Five measurements are recorded at every site (**Figure 6 - 7**).

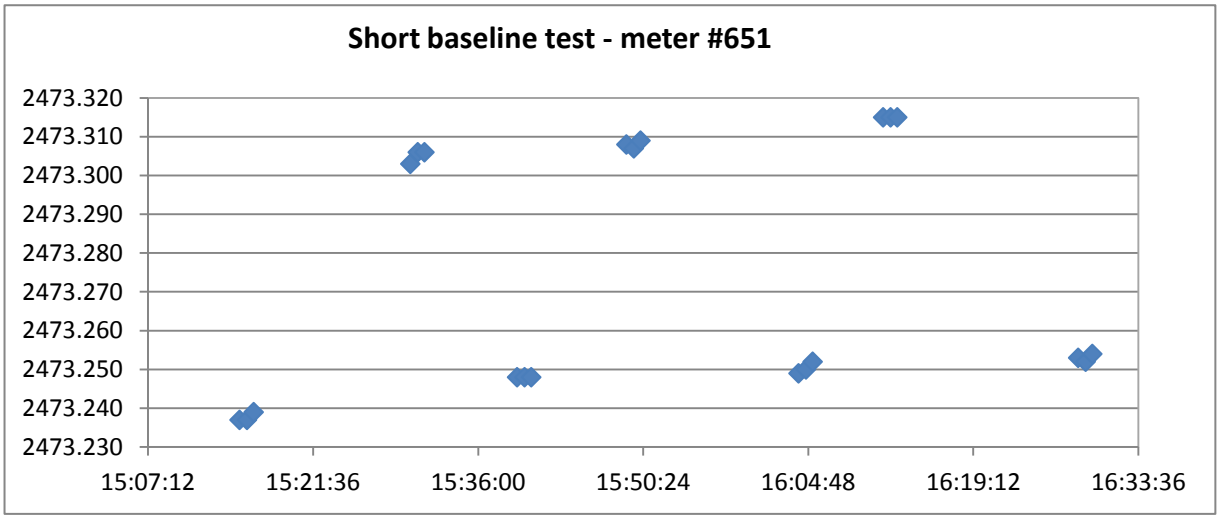

Figure 6. Short baseline test for Scintrex CG5 40951

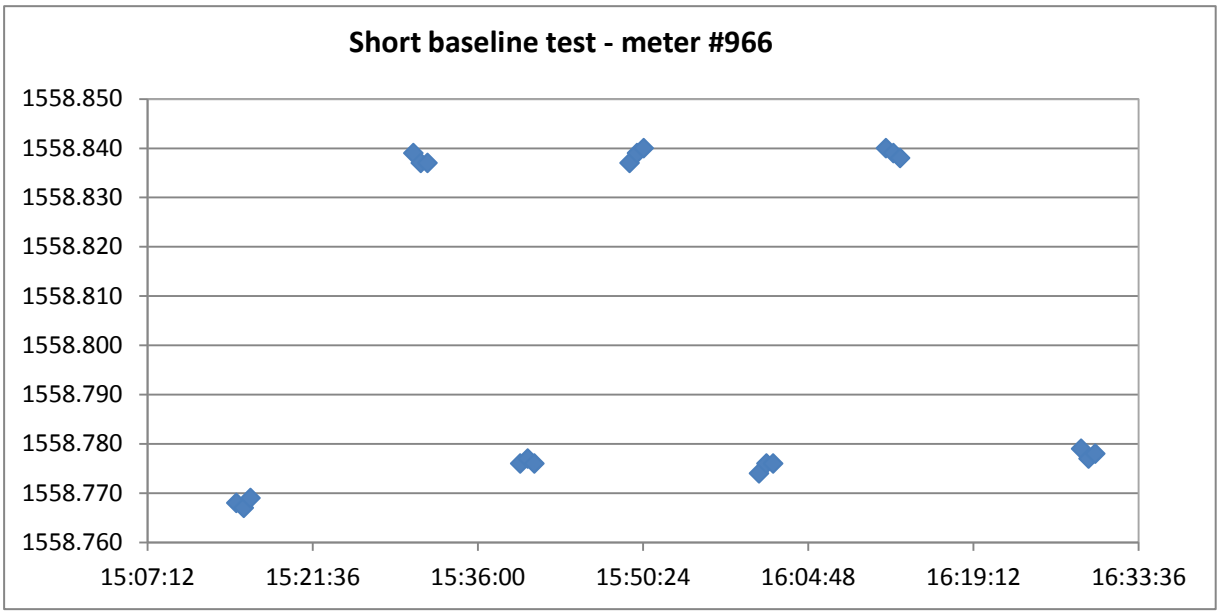

Figure 7. Short baseline test for Scintrex CG5 40966

The long baseline test (**Figure 8 - 9**) is usually carried on two bases of the network with different purposes: to check data repeatability, meter calibration and base network computation.

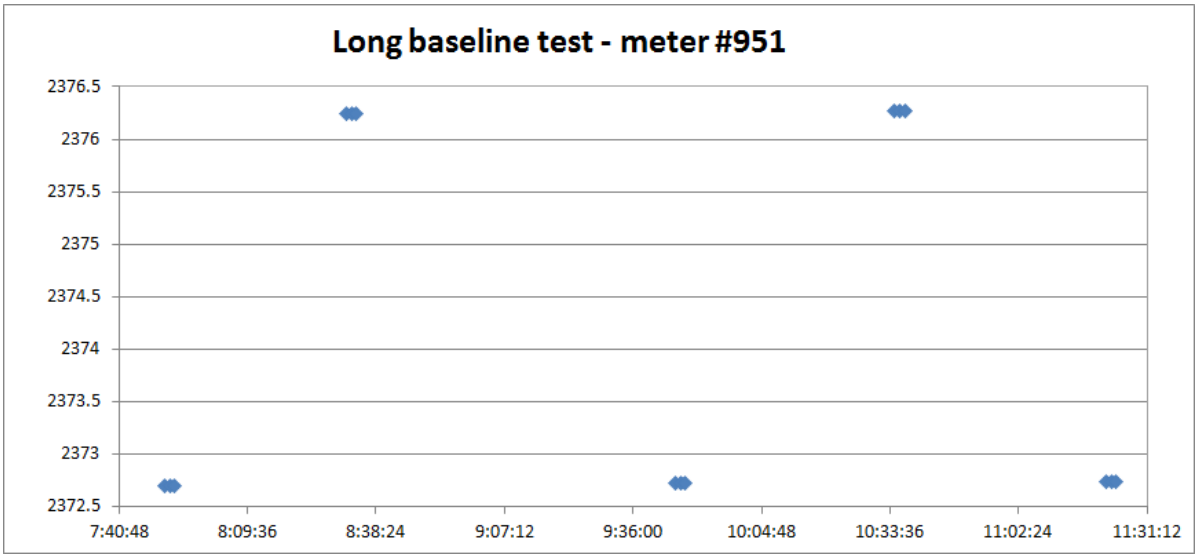

Figure 8. Long baseline test for Scintrex CG5 40951

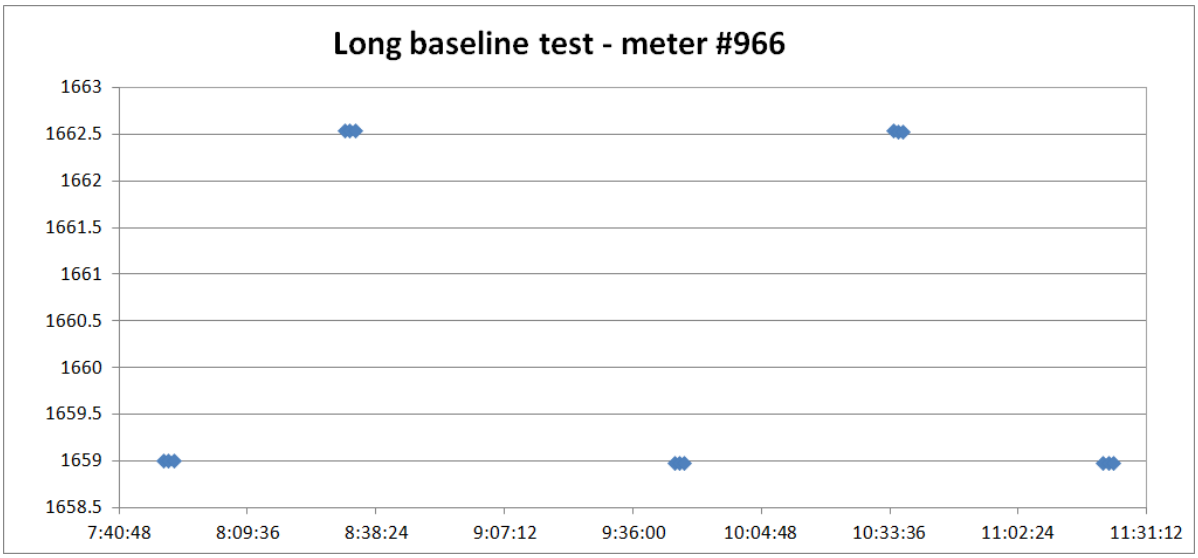

Figure 9. Long baseline test for Scintrex CG540966

4.7 GRAVITY QUALITY CONTROL

During-survey	Layout parameters	Scintrex data digitally stored, # 3 repeated reading at each station, tilt checked Drift daily checked through repeated reading performed at the base station
Post-survey	Field office control measure	Data transfer/download daily on survey database, loop closure check, data conversion to Obs Gravity, Mistie check , Outliers / instrumental tares Check. Correlation check with topography

Number of Gravity re-surveyed stations:	**21/156 (13.5%)**
Standard deviation in measured gravity:	0.03
Average difference:	0.005

The following graphic shows statistic of repeated station mistie (**Figure 10**):

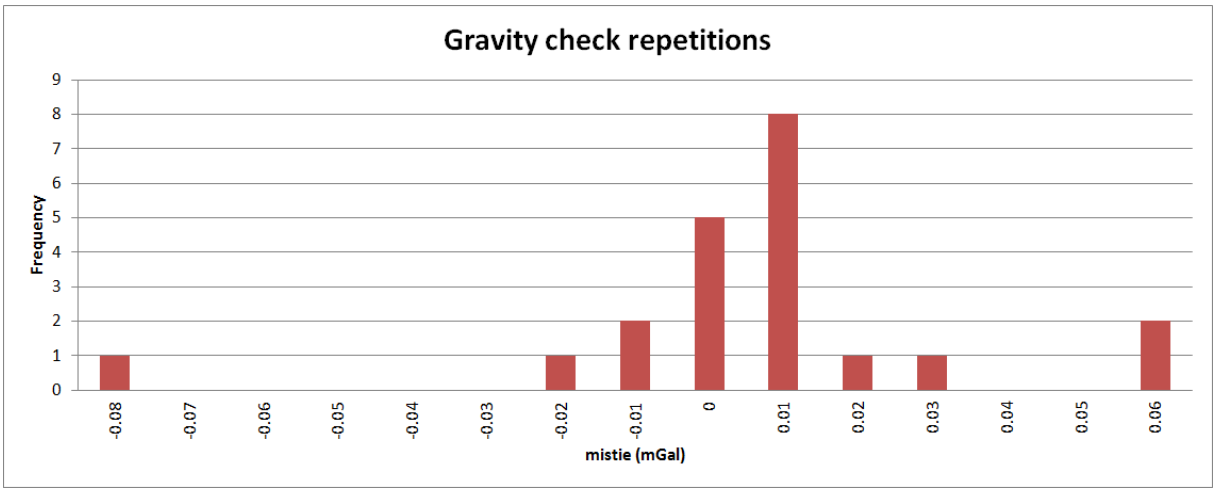

Figure 10. Statistic of repeated stations

4.8 GRAVITY BASE NETWORK

The local gravity Base Network includes #3 base-stations tied with #3 double runs (A-B-A-B-A) ties on one triangle for error compensation (**Figure 11**).

Proprietary ElevNet software was then used to compute the final adjustment and obtain a well-compensated base network, using all the individual ties. Absolute Gravity value was transferred to the area using the AFGN 1962113036 Bourke&Wills monument located in the small village of Innamincka (**Figure 12 to 15).** Final values of all network bases as long with handheld GPS determined base station coordinates are listed in Table 3.

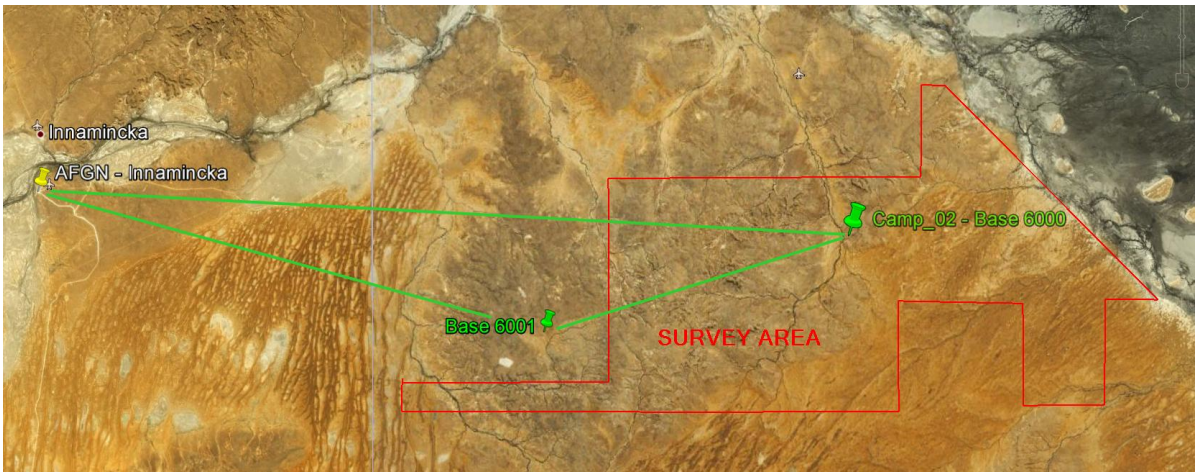

Figure 11. Local gravity base network layout

Base Stations	Latitude [° ' "]	Longitude [° ' "]	Elevation [m]	Absolute Gravity value [mGa]
5000 (AFNG Innamincka)	-17 32 42.0051	133 32 04.9002	53	979102.632
6000 (Camp 2)	27°46'43.38"S	141°22'19.70"E	98	979125.911
6001	27°50'42.73"S	141° 8'1.47"E	132	979111.882

Table 1. Gravity Base Network – station coordinates (the red one is the gravity absolute reference).

Figure 12: AFGN Innamincka station 1962113036 location on satellite image

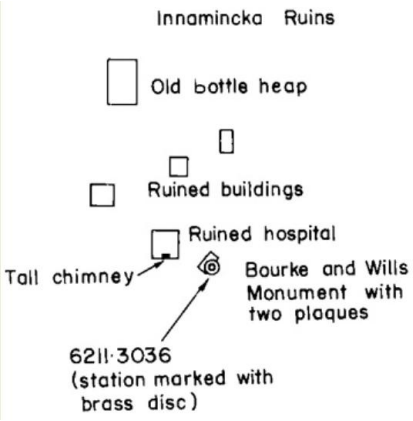

Figure 13: Innamincka station 1962113036 location on AFGN web site station monography (//www.ga.gov.au/afng)

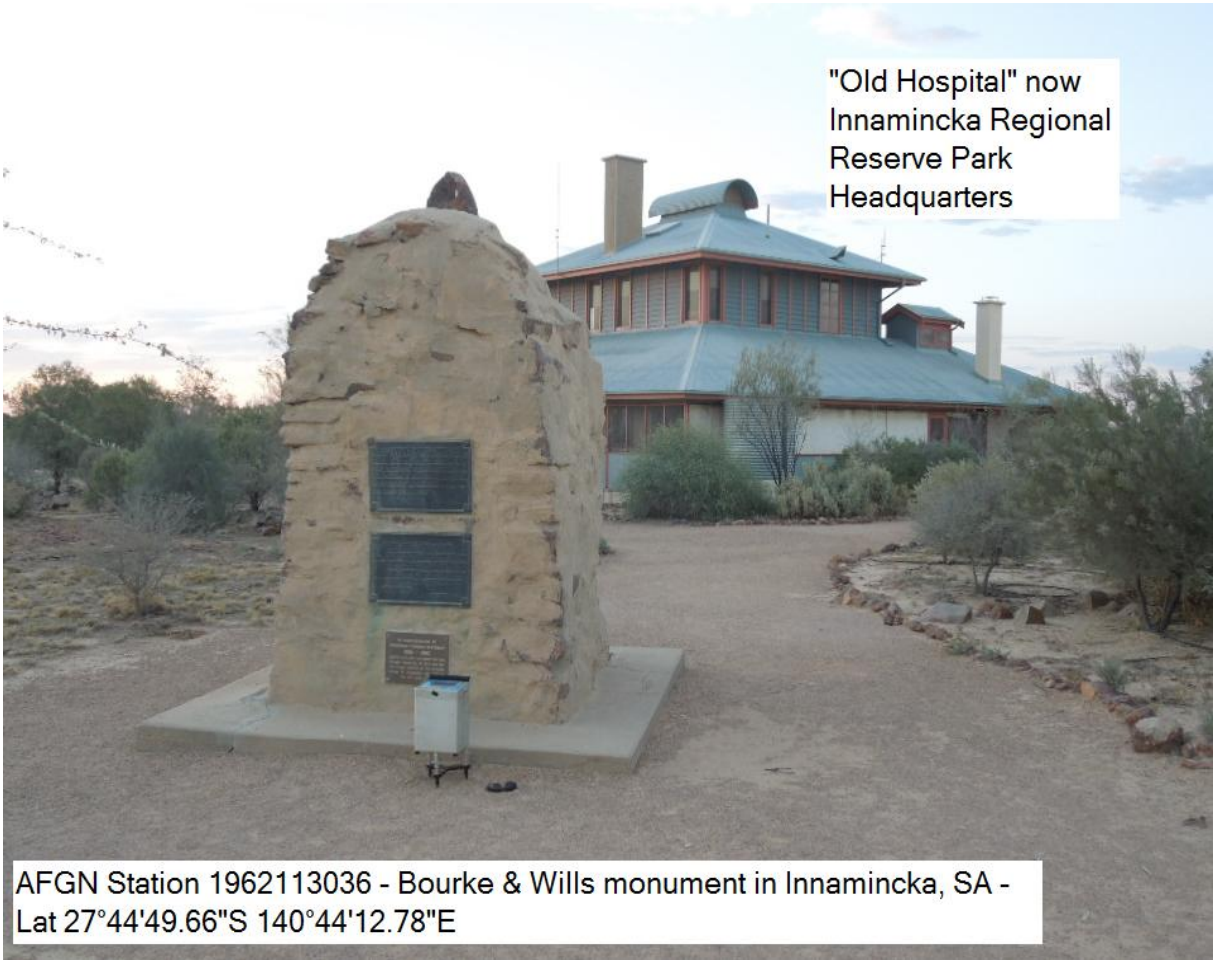

Figure 14: AFGN Innamincka station 1962113036 location

Figure 15: AFGN Innamincka station 1962113036 location

The absolute reference station is located in front of the monument (Fig.26) not far from the former hospital building now hosting the Innamincka Regional Reserve Park Headquarters (Fig.27).

Figure 16: Gravity meter on base station at Base Camp 2 (6000)

Figure 17: Gravity meter on base station 6001

4.9 GRAVIMETER INTER CALIBRATION

Just before the project start, a calibration line, internal to the well-compensated base network, was measured in order to intercalibrate the two meters used during the survey. The calibration factors derived from these calibrations, listed below, were used within WinGLink software utility to normalize the Obs gravity values.

Double Run (Gravity base 9000 to 9001)						Scintrex 966		
Base	Stn	Date	Time	Date-Time	G meter	G Diff	drift rate	Delta
9000	9001	21-Aug	10:14:53	21-Aug 10:14	1542.277	-7.954	0.00473	
9000	9001	21-Aug	11:43:06	21-Aug 11:43	1542.281	-7.954	0.0009	
9000	9001	25-Aug	11:26:57	25-Aug 11:26	1547.339	-7.954	-0.00152	
9000	9001	25-Aug	12:53:13	25-Aug 12:53	1547.345	-7.944	-0.00441	0.010
				9000 to 9001 average		-7.952		
					Stdev	0.005		

Double Run (Gravity base 9028 to 9029)						Scintrex 951		
Base	Stn	Date	Time	Date-Time	G meter	G Diff	drift rate	Delta
9028	9029	20-Oct	8:31:17	20-Oct 08:31	2376.254	3.541	0.01241	
9028	9029	20-Oct	10:34:10	20-Oct 10:34	2376.276	3.542	0.0087	0.001
				9028 to 9029 average		3.542		
					Stdev	0.001		

Table 2. Spreadsheets showing calibration reading for all the meters

Cal Correction	
966=	1.0030540
951=	1.0007059
G_Ref(5000)=	979102.632

Table 3. Refined calibration factors table

4.10 GRAVITY DATA ACQUISITION FORMAT

Scintrex CG-5 gravity data were recorded digitally and dumped to PC daily. Recorded data included: line and station ID, gravity reading, standard deviation, X,Y tilts (arc sec), inner temperature deviation (mK), internal calculated earth tide correction, reading duration (30s x 4Hz sampling rate), % of rejected readings, time, and date (see **Figure 18**:).

The meter calculates the Earth Tide correction at each reading, based on the date and time of the reading at a user-defined (survey-centre) location. The meter also applies a user-entered linear drift correction – the drift rate is obtained via an overnight drift test.

```
/   CG-5 SURVEY
/   Survey name:    26401
/   Instrument S/N: 40364
/   Client:         Hess
/   Operator:       SR
/   Date:           2012/ 9/ 5
/   Time:           06:26:06
/   LONG:           133.3000000 E
/   LAT:            16.5000000 S
/   ZONE:           53
/   GMT DIFF.:      -9.5

/   CG-5 SETUP PARAMETERS
/   Gref:           0.000
/   Gcal1:      7745.155
/   TiltxS:     601.226
/   TiltyS:     622.524
/   TiltxO:     -44.070
/   TiltyO:     5.661
/   Tempco:     -0.134
/   Drift:      0.677
/   DriftTime Start:    06:26:08
/   DriftDate Start:    2012/09/05

/   CG-5 OPTIONS
/   Tide Correction:    YES
/   Cont. Tilt:          NO
/   Auto Rejection:     YES
/   Terrain Corr.:       NO
/   Seismic Filter:     YES
/   Raw Data:            NO
Line     122.000N
/------LINE-----STATION-----ALT.------GRAV.---SD.--TILTX--TILTY-TEMP---TIDE---DUR-REJ-----TIME----DEC.TIME+DATE--TERRAIN---DATE
122.0000000  9016.0000000     0.0000   3015.235 0.028   -6.7   -3.0 -1.25 -0.033  60   0 06:47:27     41125.28250    0.0000  2012/09/05
122.0000000  9016.0000000     0.0000   3015.241 0.040   -6.5   -3.6 -1.26 -0.034  60   0 06:48:42     41125.28337    0.0000  2012/09/05
122.0000000  9016.0000000     0.0000   3015.243 0.040   -6.0   -4.2 -1.26 -0.034  60   0 06:49:48     41125.28413    0.0000  2012/09/05
122.0000000  9017.0000000     0.0000   3004.768 0.039   -1.6    0.2 -1.26 -0.050  30   0 07:23:13     41125.30730    0.0000  2012/09/05
122.0000000  9017.0000000     0.0000   3004.777 0.028   -1.6    0.8 -1.25 -0.050  30   0 07:23:57     41125.30781    0.0000  2012/09/05
122.0000000  9017.0000000     0.0000   3004.781 0.039   -1.3    0.8 -1.25 -0.050  30   0 07:24:32     41125.30821    0.0000  2012/09/05
122.0000000  18321.0000000     0.0000   3002.469 0.028   -2.4   -0.4 -1.22 -0.060  30   0 08:00:21     41125.33304    0.0000  2012/09/05
122.0000000  18321.0000000     0.0000   3002.475 0.040   -1.3   -0.5 -1.21 -0.060  30   0 08:01:05     41125.33355    0.0000  2012/09/05
122.0000000  18321.0000000     0.0000   3002.481 0.049    0.3   -1.5 -1.20 -0.060  30   0 08:01:40     41125.33396    0.0000  2012/09/05
122.0000000  18337.0000000     0.0000   3002.382 0.018    1.8   -0.8 -1.19 -0.060  30   0 08:04:49     41125.33614    0.0000  2012/09/05
122.0000000  18337.0000000     0.0000   3002.388 0.049    2.3   -0.1 -1.18 -0.060  30   0 08:05:33     41125.33665    0.0000  2012/09/05
122.0000000  18337.0000000     0.0000   3002.391 0.025    2.8    0.0 -1.17 -0.061  30   0 08:06:08     41125.33705    0.0000  2012/09/05
122.0000000  18353.0000000     0.0000   3002.388 0.049   -7.0   -0.3 -1.17 -0.061  30   0 08:09:13     41125.33919    0.0000  2012/09/05
122.0000000  18353.0000000     0.0000   3002.394 0.051   -7.7    0.3 -1.17 -0.061  30   0 08:09:57     41125.33970    0.0000  2012/09/05
122.0000000  18353.0000000     0.0000   3002.398 0.035   -8.4    1.2 -1.16 -0.061  30   0 08:10:32     41125.34010    0.0000  2012/09/05
```

Figure 18: Example of a Scintrex CG-5 data file

4.11 GRAVITY DATA PROCESSING

Importing all the gravity data into WinGLink software utility, the readings at each station were corrected for residual (linear) meter drift through the repeated base station readings . Meter drift was normally below 0.1 mGal . Loops showing bigger fluctuation drift were re-observed.

The combined gravitational effect of the Sun and Moon at the Earth's surface was computed by the "WinGLink" utility, using the I.M.Longman,1959 formula. The tidal gravity correction was thus applied to the L&R gravity meters readings. Scintrex CG-5 gravimeter automatically includes tidal correction computation based on stored meter position coordinates.

Observed gravity data (Gobs) files were exported from each day's runs and imported to the WinGLink project database (**Fig.19**) along with the stations coordinates from dGPS survey (**Fig.20**).

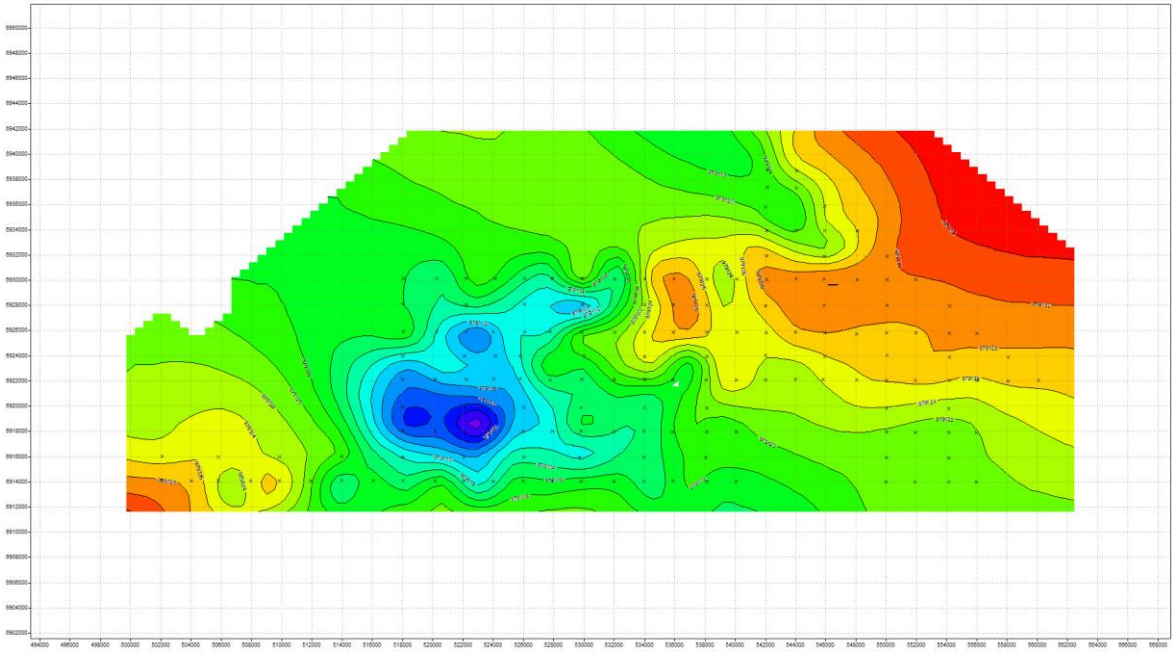

Figure 19: Observed gravity map

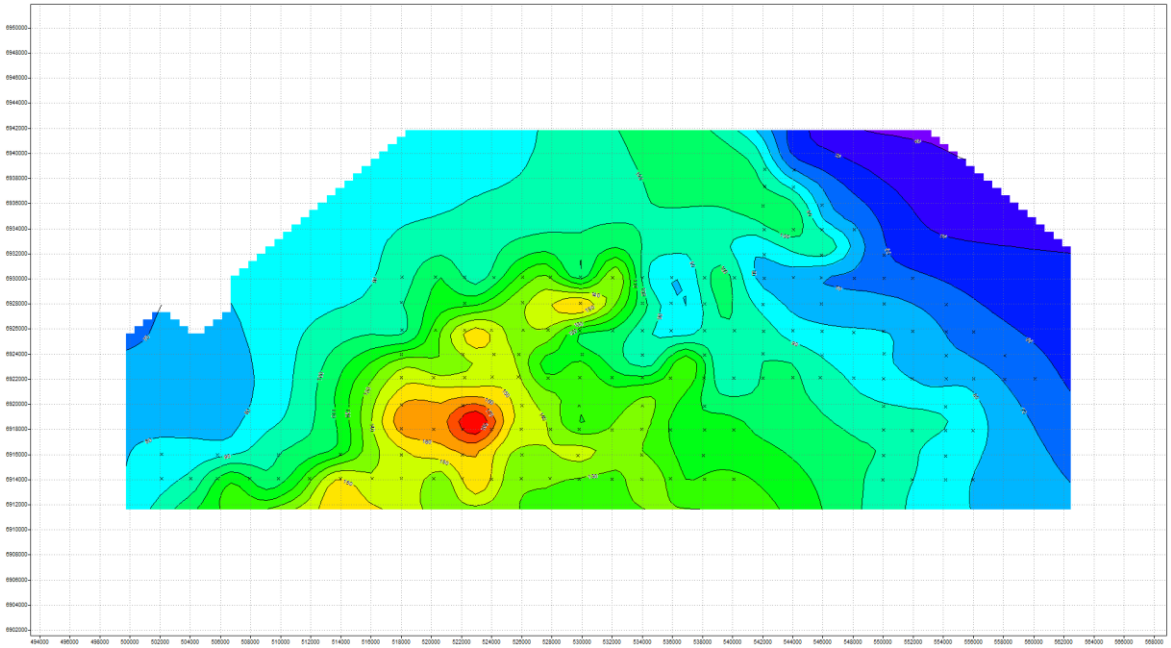

Figure 20: Elevation map

4.12 GRAVITY REDUCTIONS

Observed gravity values were reduced to Bouguer anomalies using standards procedures using WinGLink processing software. Terrain, Free Air and Bouguer Corrections were computed. Theoretical gravity was calculated from the 1980 International Gravity Formula. Additional

refinements include the curvature correction to the simple Bouguer anomaly to account for earth sphericity (Bullard B correction).

4.12.1 FREE-AIR ANOMALY

The free-air anomaly (**Figure 21**) was computed by calculating the theoretical gravity field at the position of the gravity station, then subtracting the theoretical field from the observed gravity. The theoretical gravity field is a function of latitude and elevation.

The free-air anomaly is calculated using the following formula:

$$\Delta g_{FA} = g_{Obs} - g_T + 0.3086\ H$$

Where:

g_{Obs} is the observed gravity

g_T is the normal gravity on the ellipsoid at that latitude and computed using the 1980 International Gravity Formula

H is the height of the meter above the geoid

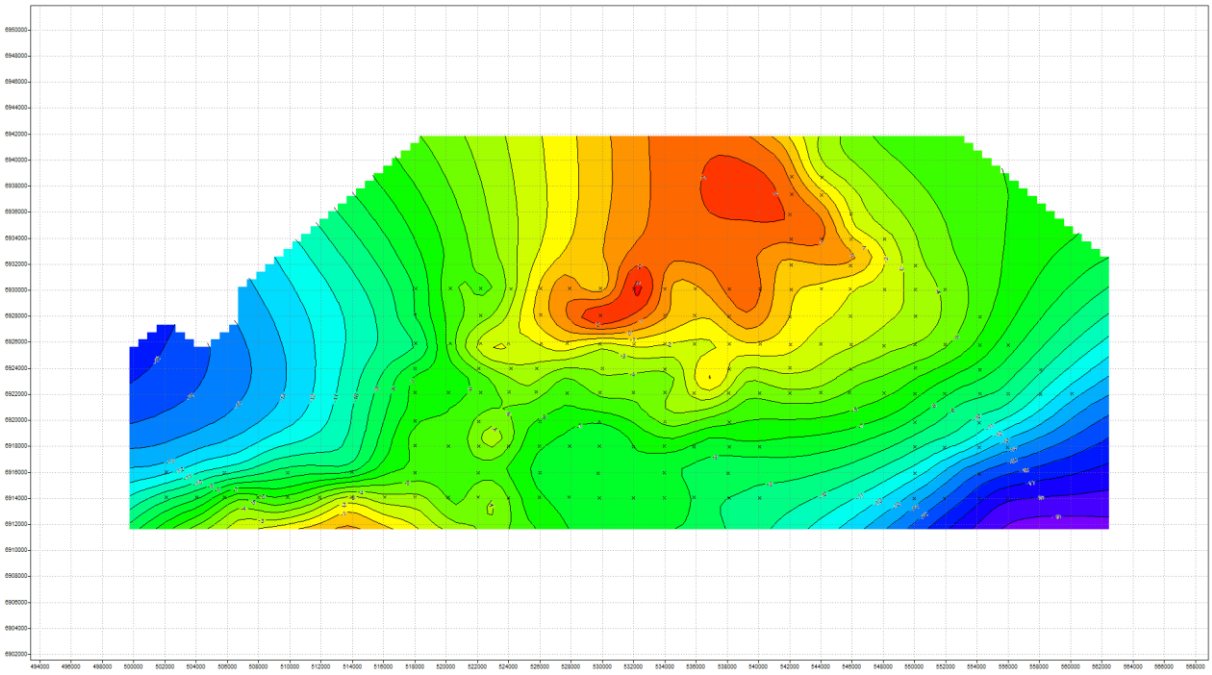

Figure 21: Free air anomaly map. Contour line interval s 2.0 mGal.

4.12.2 TERRAIN CORRECTION

The Terrain Correction (**Figure 22**) was computed using:

- 2m grid project DEM (from 0 to 100 m radius)
- SRTM 100m DEM (from 100m to 10,000 m radius)
- SRTM 500m DEM (from 10,000m to 167,000 m radius of the Hayford-Bowie Zone).

The WinGlink software compute TC using a nominal density of 1 g/cc (Figure 21). This TC value is then multiplied by the Bouguer density applied in the calculation of the Complete Bouguer anomaly.

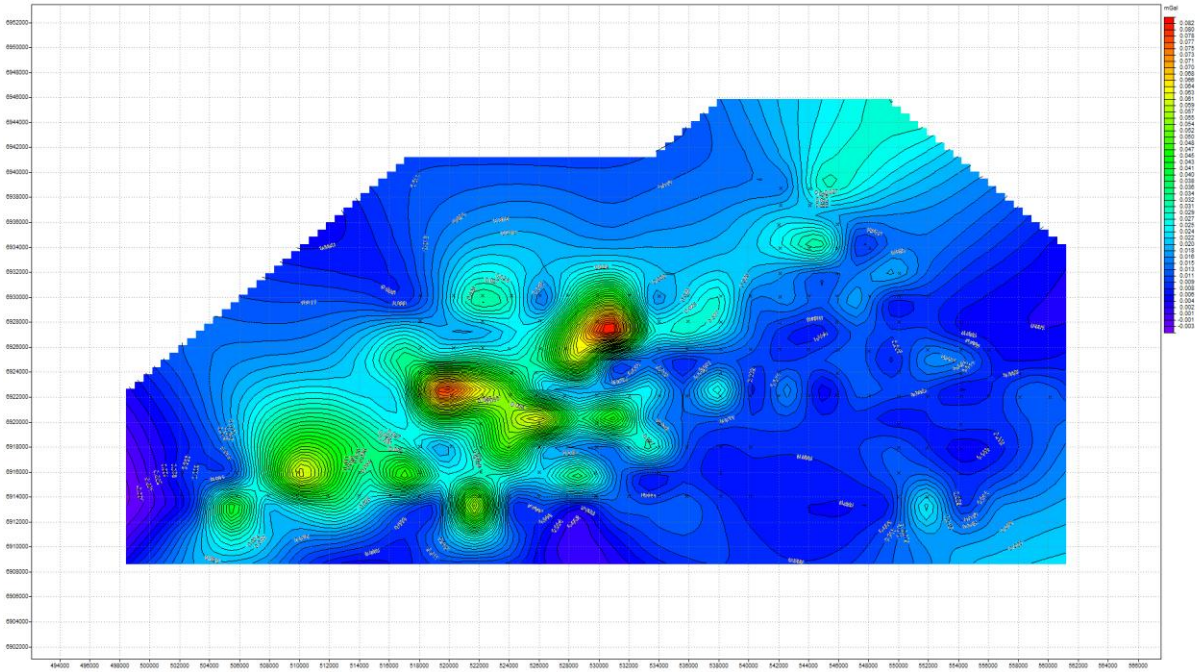

Figure 22: Terrain Correction (1.0 mGal) map

4.12.3 BOUGUER ANOMALY

The classical Bouguer reduction is a three-step procedure (Swick, 1942, LaFehr, 1991):

- apply the Simple Bouguer slab formula (Bullard A)
- add a curvature correction (Bullard B)
- apply a terrain correction for departures of the actual Earth's surface from an idealized spherical surface (Bullard C)

The first two are functions of elevation and topographic density only, while the third is, in addition, a function of surrounding topography.

The infinite slab term is given by $2\pi G\rho h$ (G being the Newton's gravitational constant) and is almost always larger than the terrain correction and is always larger than the curvature correction.

The curvature correction is calculated by computing the gravitational effect of a spherical cap with a linear radius of 166.7 km (outer radius Hayford-Bowie system). The spherical cap produces a lesser effect than the infinite slab because of the "truncation" of that part of the slab above the earth and extending to infinity, but it produces a greater effect than the slab because of sub slab earth resulting from curvature. The physical significance of the correction lies in the combination of these two differences, which are each a function of elevation (LaFehr, 1991). Simple Bouguer anomaly map is showed in **Figure 23**.

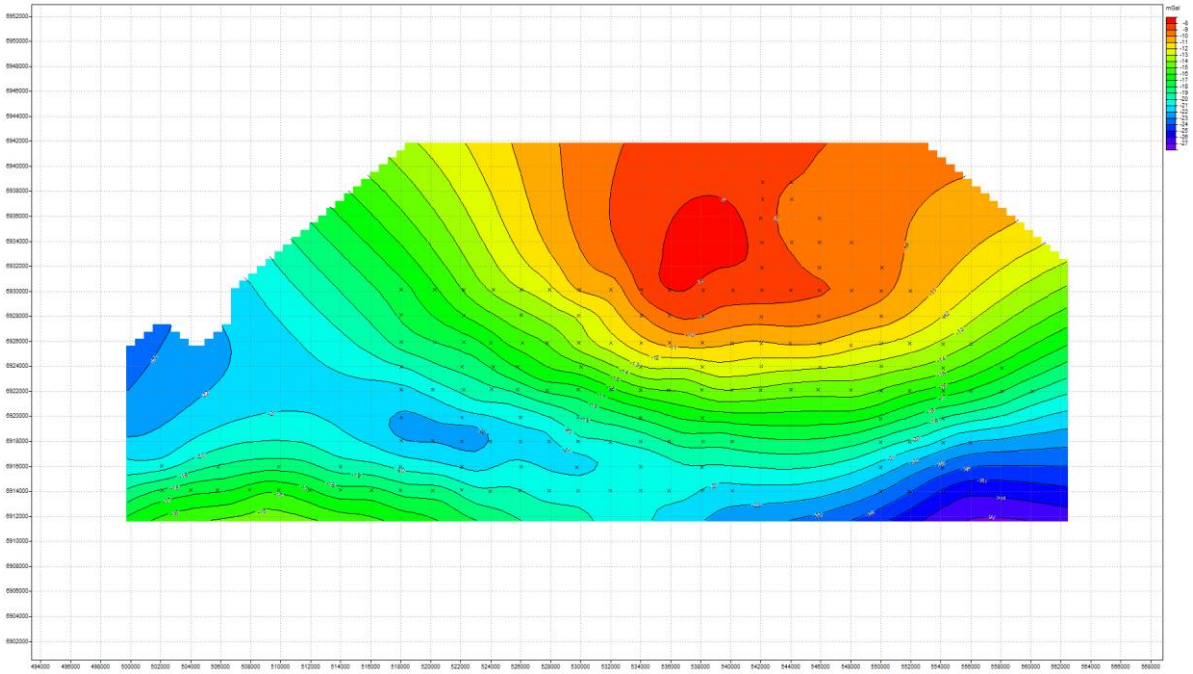

Figure 23: Simple Bouguer anomaly map (density = 2.4 g/cc; Bullard B applied). Contour line interval is 2.0 mGal.

The computed TC is added to the Simple Bouguer (**Figure 23**) anomaly to provide the so-called Complete Bouguer Anomaly .

Because the Bouguer Correction BC may be written:

$$BC = g_{slab} + g_{cc} + g_{TC}$$

Where: $g_{slab} = 0.0418\rho H$, g_{cc} = curvature correction, and g_{TC} = the terrain correction.

The Bouguer anomaly Δg_{BA} is then given by

$$\Delta g_{BA} = \Delta g_{FA} - (g_{slab} + g_{cc} + g_{tc}).$$

In order to define a theoretical average reduction density value for the whole area, a "Nettleton method" test has been performed using different gravity values, along Source Line 1468. A density of 2.4 g/cc shown the minimum correlation with topography. This value was then applied to compute Complete Bouguer anomaly (**Figure 24**) .

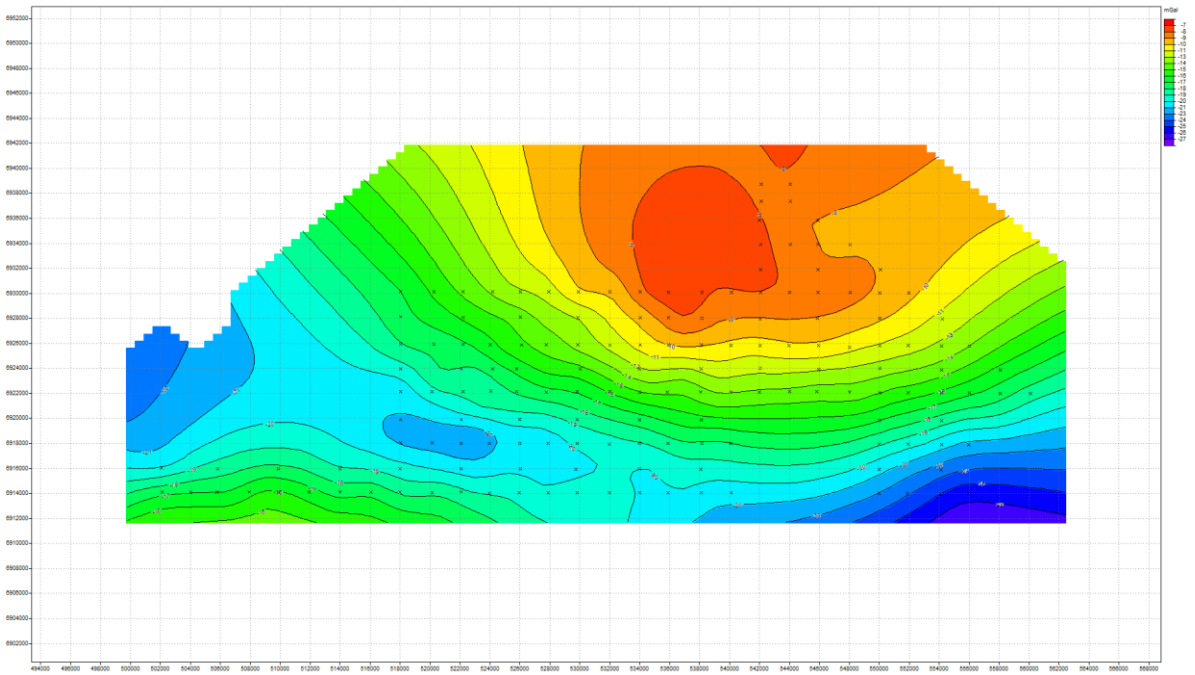

Figure 24: Complete Bouguer anomaly map (density = 2.4 g/cc; Bullard B applied; OTC max distance 167 km). Contour line interval is 2.0 mGal.

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APPENDIX A - GRAVITY STATIONS DATA

Drillsearch ATP940
Name: Complete Bouguer (density = 2.4 g/cc)
Units: mGal

ID	x(m)	y(m)	z(m)	Longitude	Latitude	GObs	TGrav	FreeAir	Bgcorr	TC	BGAnom
41	502095.672	6914103.17	86.199	141.02129	-27.89794	979128.186	979164.147	26.607	8.67	0.030243	-17.367
56	504014.767	6914099.22	92.524	141.04079	-27.89797	979127.384	979164.15	28.56	9.306	0.020664	-17.095
87	509858.403	6916002.1	100.284	141.10016	-27.88076	979123.422	979162.865	30.955	10.087	0.147679	-17.894
137	520264.08	6925926.05	126.66	141.2057	-27.79106	979111.63	979156.177	39.097	12.74	0.060528	-17.737
139	520262.719	6930138.8	109.634	141.20562	-27.75303	979114.248	979153.345	33.841	11.027	0.052326	-15.656
146	520149.531	6914084.18	134.842	141.20474	-27.89796	979117.367	979164.149	41.622	13.563	0.042538	-18.336
161	518002.012	6914086.66	148.6[illegible]	141.18292	-27.89797	979114.615	979164.15	45.875	14.949	0.044966	-18.277
162	518004.844	6915994.06	147.413	141.18292	-27.88075	979111.716	979162.864	45.503	14.827	0.106345	-19.929
163	518012.42	6918040.6	165.035	141.18297	-27.86227	979104.973	979161.485	50.942	16.6	0.063596	-21.595
164	518019.931	6919937.36	159.361	141.18301	-27.84515	979104.739	979160.208	49.191	16.029	0.069842	-21.558
166	524167.593	6923992.41	144.977	141.24537	-27.80845	979109.356	979157.472	44.751	14.582	0.073274	-17.573
167	524004.676	6925899.9	162.624	141.24367	-27.79123	979105.206	979156.19	50.198	16.357	0.067415	-16.631
192	522072.937	6915989.04	160.849	141.22425	-27.88073	979107.954	979162.863	49.65	16.179	0.066179	-20.931
195	527743.387	6922112.79	118.897	141.28171	-27.82535	979116.211	979158.732	36.7	11.959	0.045235	-17.274
208	527898.934	6918010.39	138.886	141.28339	-27.86238	979111.259	979161.493	42.87	13.97	0.041184	-20.818
228	531978.464	6917971.3	131.003	141.32483	-27.86264	979114.05	979161.513	40.437	13.177	0.030748	-19.649
235	534005.582	6922122.75	101.948	141.3453	-27.82511	979122.127	979158.714	31.469	10.254	0.055888	-14.639
239	534026.833	6930111.86	90.599	141.34529	-27.75299	979125.603	979153.343	27.966	9.113	0.037434	-8.386
257	535920.773	6925873.56	85.41	141.36463	-27.7912	979127.565	979156.187	26.364	8.591	0.029826	-10.315
259	535937.234	6930106.94	81.032	141.36467	-27.75299	979128.332	979153.342	25.013	8.151	0.053182	-7.575
268	535867.375	6917983.04	116.669	141.36433	-27.86243	979118.233	979161.497	36.013	11.735	0.027032	-18.518
277	540103.352	6925863	100.774	141.40709	-27.79118	979124.087	979156.186	31.106	10.136	0.027576	-10.6
296	538132.674	6923944.78	93.425	141.38715	-27.80855	979125.653	979157.48	28.838	9.397	0.029685	-11.905
297	538121.605	6925866.44	92.279	141.38697	-27.79121	979126.248	979156.188	28.484	9.282	0.037979	-10.296
299	538145.267	6930081.56	112.234	141.38708	-27.75315	979121.277	979153.355	34.644	11.289	0.064686	-8.311
306	538131.974	6914050.74	122.206	141.38746	-27.89787	979117.363	979164.142	37.722	12.292	0.020063	-20.844
307	538078.879	6915949.28	115.11	141.38686	-27.88073	979118.602	979162.863	35.531	11.578	0.015323	-19.79
308	538143.762	6917991.22	120.8	141.38745	-27.8623	979117.405	979161.487	37.288	12.151	0.017524	-18.437
310	544067.532	6938704.78	68.555	141.44686	-27.67513	979124.226	979147.554	21.161	6.896	0.062025	-8.414

315	544013.113	6922125.37	102.128	141.44692	-27.8248	979122.833	979158.691	31.524	10.272	0.013104	-13.931
337	548033.726	6925709.74	81.413	141.4876	-27.7923	979127.527	979156.269	25.13	8.189	0.027586	-11.168
341	548072.515	6933917.85	70.837	141.48766	-27.7182	979126.231	979150.755	21.866	7.125	0.019985	-9.31
356	550044.752	6924008.33	80.858	141.50808	-27.80759	979127.052	979157.408	24.959	8.133	0.023594	-13.066
359	550058.171	6930055.26	66.069	141.50796	-27.753	979129.817	979153.343	20.394	6.645	0.018166	-9.385
366	549979.741	6914000.4	93.868	141.50784	-27.89793	979121.815	979164.147	28.975	9.442	0.025025	-22.344
368	550008.651	6917944.94	99.244	141.50797	-27.86232	979121.292	979161.489	30.634	9.982	0.026443	-19.138
377	551948.481	6925815.79	74.01	141.52733	-27.7912	979128.271	979156.187	22.845	7.444	0.035035	-12.015
379	551969.744	6930043.6	62.096	141.52736	-27.75303	979129.824	979153.346	19.167	6.246	0.021477	-10.109
388	551920.141	6917937.88	92.947	141.52739	-27.86232	979121.834	979161.488	28.69	9.349	0.019406	-19.832
395	554170.096	6922044.06	79.012	141.55005	-27.82516	979125.594	979158.718	24.389	7.947	0.013324	-16.085
396	554175.452	6923883.82	71.959	141.55002	-27.80855	979127.808	979157.48	22.212	7.238	0.043919	-14.264
398	554194.063	6927981.07	65.112	141.55003	-27.77156	979129.054	979154.725	20.098	6.549	0.012156	-11.745
408	554143.953	6917925.55	90.655	141.54997	-27.86234	979121.333	979161.49	27.983	9.118	0.011153	-20.889
409	554152.393	6919825.93	84.725	141.54997	-27.84518	979123.493	979160.211	26.152	8.522	0.021746	-18.53
428	555979.273	6917917.38	83.718	141.56862	-27.86234	979121.906	979161.49	25.842	8.421	0.014147	-21.721
435	560103.491	6922021.42	63.754	141.6103	-27.82511	979126.37	979158.714	19.679	6.413	0.02841	-18.659
454	526044.801	6930130.47	120.307	141.26429	-27.753	979115.192	979153.343	37.136	12.101	0.034005	-12.701
463	525985.864	6918019.89	143.772	141.26396	-27.86233	979110.141	979161.49	44.379	14.461	0.055334	-20.966
464	526000.214	6919920.75	146.196	141.26406	-27.84517	979109.09	979160.21	45.127	14.705	0.146726	-19.611
470	542014.415	6922111.34	101.965	141.42662	-27.82499	979123.149	979158.705	31.474	10.256	0.036442	-13.858
475	542085.682	6931921.6	80.962	141.427	-27.73643	979126.872	979152.11	24.991	8.143	0.04104	-7.844
476	542098.804	6933923.1	101.408	141.42706	-27.71836	979121.027	979150.767	31.302	10.2	0.059432	-8.057
487	529865.615	6925893.79	111.337	141.30317	-27.79117	979119.361	979156.185	34.367	11.199	0.058416	-13.335
488	529876.998	6928065.69	158.371	141.30323	-27.77156	979108.79	979154.725	48.885	15.93	0.197405	-12.489
496	529803.653	6914056.87	129.232	141.30284	-27.89803	979116.72	979164.154	39.89	12.999	0.03133	-19.985
497	529739.008	6915932.31	143.658	141.30213	-27.8811	979111.507	979162.89	44.343	14.45	0.074013	-20.532
498	529824.229	6918013.23	122.913	141.30295	-27.86231	979115.493	979161.488	37.94	12.363	0.04518	-20.153
512	505813.695	6915956.68	87.103	141.05906	-27.8812	979125.726	979162.897	26.886	8.761	0.030844	-18.687
524	545899.404	6930077.44	70.452	141.46576	-27.75295	979129.699	979153.34	21.747	7.086	0.036479	-8.488
526	545920.993	6933932.25	94.161	141.46584	-27.71815	979121.414	979150.751	29.065	9.471	0.086626	-9.314
527	545926.933	6935865.17	65.779	141.46582	-27.7007	979126.293	979149.454	20.304	6.616	0.060937	-9.096
563	533993.245	6918003.36	131.863	141.34529	-27.8623	979114.273	979161.487	40.703	13.263	0.067034	-19.296
566	540097.096	6917986	107.488	141.40729	-27.86229	979120.529	979161.486	33.179	10.812	0.019854	-18.082

570	520150.343	6918032.82	163.497	141.20468	-27.86231	979105.159	979161.488	50.467	16.445	0.048709	-21.85
571	522081.732	6918026.51	180.565	141.2243	-27.86234	979101.071	979161.49	55.736	18.162	0.077111	-22.515
572	523991.761	6918020.04	185.38	141.2437	-27.86237	979100.745	979161.492	57.222	18.646	0.117363	-21.538
589	551903.397	6913998.43	91.8	141.52739	-27.89788	979120.771	979164.143	28.336	9.234	0.054233	-23.742
590	554129.76	6913981.97	84.56	141.55001	-27.89794	979121.363	979164.147	26.101	8.505	0.019671	-24.709
591	555960.049	6913986.83	79.774	141.56861	-27.89782	979121.669	979164.138	24.624	8.024	0.032106	-25.43
594	531992.368	6914055.7	127.304	141.32508	-27.89799	979117.081	979164.151	39.295	12.805	0.029214	-20.042
595	533981.906	6914052.24	135.873	141.34529	-27.89797	979114.954	979164.15	41.94	13.667	0.025808	-20.404
596	535875.208	6914064.27	124.269	141.36453	-27.89781	979117.462	979164.138	38.359	12.499	0.028574	-20.366
598	540097.002	6914038.67	124.077	141.40743	-27.89792	979116.835	979164.146	38.299	12.48	0.015941	-20.884
603	522067.559	6914085.3	165.803	141.22423	-27.89792	979109.573	979164.146	51.179	16.677	0.12939	-19.175
604	523988.131	6914027.13	143.096	141.24375	-27.89841	979114.688	979164.183	44.17	14.393	0.032504	-19.201
605	527877.712	6914062.87	131.757	141.28327	-27.89801	979116.191	979164.153	40.67	13.253	0.025601	-20.162
606	525967.26	6914066.57	131.359	141.26385	-27.89802	979116.689	979164.153	40.547	13.213	0.034799	-19.636
608	507943.81	6914100.94	106.925	141.08072	-27.89794	979125.366	979164.147	33.005	10.755	0.056201	-16.087
609	509847.9	6914108.29	103.14	141.10006	-27.89786	979126.303	979164.141	31.837	10.374	0.075536	-15.768
610	511914.546	6914099.96	124.521	141.12106	-27.89792	979121.223	979164.146	38.436	12.525	0.088094	-16.512
611	513979.582	6914097.37	150.421	141.14205	-27.89792	979114.962	979164.146	46.431	15.13	0.06598	-17.428
612	516054.949	6914092.6	141.589	141.16314	-27.89794	979116.78	979164.147	43.705	14.242	0.049262	-17.351
618	505797	6914105.19	112.918	141.0589	-27.89791	979123.302	979164.145	34.855	11.358	0.092553	-17.064
716	550003.144	6915908.42	99.463	141.508	-27.88071	979120.568	979162.861	30.702	10.004	0.028414	-21.13
718	554138.51	6915896.42	83.862	141.55001	-27.88066	979121.901	979162.857	25.886	8.435	0.01838	-23.018
723	533982.663	6915961.85	130.816	141.34524	-27.88073	979114.675	979162.863	40.379	13.158	0.018248	-20.412
734	526026.059	6915987.33	137.076	141.26441	-27.88068	979113.354	979162.859	42.312	13.788	0.054557	-20.491
739	513990.089	6916005.38	116.153	141.14213	-27.8807	979119.016	979162.86	35.853	11.683	0.079306	-19.172
744	502071.598	6916006.38	82.978	141.02105	-27.88076	979125.039	979162.865	25.613	8.346	0.018069	-20.32
748	550013.768	6919842.79	92.047	141.50794	-27.84519	979123.55	979160.211	28.413	9.258	0.016635	-17.061
755	533997.659	6919895.41	133.116	141.34528	-27.84522	979114.484	979160.213	41.089	13.389	0.038859	-17.447
757	538139.559	6919860.56	111.744	141.38735	-27.84542	979120.107	979160.228	34.492	11.24	0.024439	-16.277
763	522095.709	6919901.59	167.476	141.22441	-27.84541	979103.788	979160.228	51.695	16.845	0.090057	-20.654
767	529828.201	6919918.15	126.268	141.30294	-27.84511	979114.62	979160.205	38.976	12.701	0.10429	-18.783
779	548030.122	6922076.2	88.409	141.48771	-27.8251	979125.703	979158.713	27.29	8.893	0.028573	-14.131
780	550023.629	6922064.53	83.565	141.50795	-27.82514	979126.231	979158.716	25.794	8.405	0.023981	-14.659
781	551940.416	6922063.62	80.177	141.52741	-27.82507	979126.169	979158.711	24.749	8.065	0.020502	-15.366

783	556002.426	6922041.41	76.638	141.56866	-27.82511	979125.612	979158.714	23.656	7.709	0.018384	-16.75
785	558075.641	6922017.04	69.288	141.58971	-27.82524	979126.272	979158.724	21.387	6.969	0.029512	-17.544
786	532007.395	6922124.99	113.404	141.32501	-27.82514	979118.845	979158.716	35.005	11.407	0.071217	-15.729
788	535863.715	6922111.21	124.836	141.36417	-27.82517	979117.616	979158.718	38.534	12.557	0.031423	-14.632
789	538093.326	6922115.03	99.276	141.38681	-27.82507	979123.829	979158.711	30.644	9.986	0.061691	-13.711
790	540090.771	6922110.26	109.897	141.40709	-27.82506	979121.215	979158.71	33.922	11.054	0.018819	-14.123
793	545834.825	6922127.32	97.219	141.46541	-27.82472	979123.601	979158.685	30.009	9.779	0.016576	-14.256
794	520148.165	6922154.42	139.206	141.20459	-27.82511	979109.121	979158.714	42.969	14.002	0.191619	-19.364
795	522206.086	6922135.46	153.465	141.22549	-27.82525	979106.636	979158.724	47.371	15.436	0.148781	-19.587
796	524049.416	6922178.06	136.474	141.2442	-27.82483	979111.153	979158.693	42.126	13.727	0.123186	-18.278
798	525791.382	6922171.19	139.058	141.26189	-27.82486	979111.275	979158.695	42.924	13.987	0.06184	-17.792
799	529843.836	6922130.63	115.133	141.30304	-27.82514	979117.571	979158.716	35.539	11.581	0.039018	-16.726
805	518022.688	6922155.59	154.279	141.18301	-27.82513	979105.193	979158.715	47.622	15.518	0.083454	-20.936
817	558082.473	6923864.43	65.083	141.58969	-27.80856	979127.491	979157.481	20.089	6.546	0.020109	-16.191
819	534010.907	6923957.53	97.758	141.3453	-27.80855	979123.972	979157.48	30.175	9.833	0.029194	-12.658
823	542028.458	6924017.32	97.815	141.4267	-27.80778	979124.434	979157.422	30.193	9.839	0.022079	-12.192
825	545938.333	6923928.76	87.391	141.4664	-27.80845	979126.345	979157.472	26.975	8.79	0.021831	-12.385
827	522096.255	6923987.87	137.845	141.22434	-27.80853	979109.99	979157.478	42.549	13.865	0.077255	-18.193
830	525794.257	6923961.45	141.014	141.26188	-27.8087	979110.839	979157.491	43.527	14.184	0.061165	-16.792
831	530015.29	6923966.14	128.625	141.30474	-27.80857	979114.945	979157.481	39.703	12.938	0.066518	-15.303
837	518027.513	6923989.81	122.64	141.18303	-27.80857	979111.752	979157.481	37.856	12.336	0.102953	-19.712
844	550046.689	6928000.22	72.919	141.50793	-27.77155	979128.936	979154.724	22.508	7.334	0.022055	-10.224
851	534026.3	6928061.37	101.732	141.34534	-27.7715	979123.361	979154.72	31.402	10.233	0.06	-9.94
852	535928.707	6928049.07	82.187	141.36465	-27.77156	979128.477	979154.725	25.369	8.267	0.069534	-8.507
853	538143.954	6928006.26	96.293	141.38713	-27.77189	979125.467	979154.749	29.723	9.686	0.058669	-8.743
855	542031.403	6927985.15	86.589	141.42659	-27.77196	979127.029	979154.755	26.728	8.709	0.024698	-9.279
857	545884.435	6928010.44	75.9	141.46569	-27.77161	979129.101	979154.728	23.428	7.634	0.02158	-9.286
859	522215.211	6928066.44	115.279	141.22547	-27.7717	979114.611	979154.735	35.584	11.595	0.048512	-15.714
862	526050.705	6928116.68	137.627	141.26439	-27.77118	979111.635	979154.697	42.482	13.843	0.063887	-14.145
869	518029.117	6928091.89	99.267	141.18298	-27.77154	979116.086	979154.723	30.641	9.985	0.043205	-17.428
875	548062.639	6930065.82	68.383	141.48772	-27.75298	979129.69	979153.342	21.108	6.878	0.037343	-8.902
882	532026.651	6930119.99	138.36	141.32499	-27.75297	979113.824	979153.341	42.708	13.917	0.148783	-10.125
886	540123.312	6930099.73	88.728	141.40715	-27.75293	979126.394	979153.338	27.388	8.925	0.037091	-7.965
887	542092.439	6930062.48	77	141.42713	-27.75321	979128.676	979153.359	23.768	7.745	0.038762	-8.158

888	544021.05	6930078.92	74.862	141.4467	-27.753	979128.959	979153.343	23.108	7.53	0.026711	-8.333
891	522216.033	6930139.03	96.493	141.22544	-27.75299	979118.232	979153.343	29.785	9.706	0.078879	-14.572
892	524169.273	6930116.62	107.657	141.24526	-27.75316	979116.975	979153.355	33.231	10.829	0.066862	-13.361
893	527919.388	6930125.65	130.396	141.28331	-27.75301	979113.754	979153.344	40.25	13.116	0.084131	-12.022
895	529887.722	6930123.18	105.096	141.30329	-27.75299	979120.419	979153.342	32.44	10.571	0.08549	-10.539
901	518042.289	6930143.94	95.23	141.18309	-27.75301	979116.058	979153.344	29.395	9.579	0.023679	-17.008
908	550064.528	6931892.64	62.332	141.50795	-27.73641	979129.283	979152.109	19.24	6.27	0.043285	-9.337
921	545900.793	6931914.01	94.704	141.46571	-27.73637	979122.92	979152.106	29.233	9.526	0.030145	-8.956
951	542003.028	6935824.2	100.583	141.42602	-27.7012	979120.223	979149.491	31.047	10.117	0.067861	-7.52
983	542141.141	6938710.71	93.47	141.42732	-27.67514	979119.48	979147.555	28.852	9.402	0.036611	-8.231
1014	544041.89	6933926.67	105.043	141.44677	-27.71826	979119.548	979150.76	32.424	10.566	0.054833	-8.812
1034	550034.308	6925817.84	82.794	141.5079	-27.79125	979126.866	979156.191	25.556	8.328	0.016897	-11.595
1036	554183.07	6925799.81	69.746	141.55001	-27.79126	979128.372	979156.191	21.529	7.015	0.017318	-12.825
1037	556017.885	6925794.79	64.728	141.56864	-27.79123	979128.653	979156.189	19.98	6.511	0.016772	-13.643
1040	532020.704	6925890.61	108.088	141.32504	-27.79115	979121.137	979156.183	33.364	10.872	0.033069	-12.202
1041	534016.021	6925873.78	92.791	141.3453	-27.79125	979125.454	979156.191	28.642	9.333	0.04063	-11.02
1045	542044.316	6925844.6	95.742	141.42679	-27.79129	979124.996	979156.194	29.553	9.63	0.024026	-10.817
1046	543992.021	6925859.28	85.056	141.44656	-27.79109	979127.484	979156.179	26.255	8.555	0.030305	-10.511
1047	545951.926	6925815.69	81.964	141.46646	-27.79142	979128.024	979156.203	25.3	8.244	0.02375	-10.538
1049	522215.947	6925935.34	138.535	141.22552	-27.79094	979109.897	979156.168	42.762	13.934	0.08707	-16.774
1051	527757.93	6925909.22	137.993	141.28177	-27.79107	979112.366	979156.178	42.595	13.88	0.151651	-14.239
1052	526101.55	6925911.94	134.377	141.26496	-27.79108	979112.596	979156.178	41.479	13.516	0.091067	-14.92
1059	518034.177	6925924.41	97.14	141.18307	-27.7911	979117.215	979156.18	29.985	9.771	0.056605	-18.159
1077	542136.774	6937358.55	100.547	141.42733	-27.68734	979118.906	979148.461	31.036	10.113	0.034461	-8.283
1078	544058.359	6937347.94	87.935	141.44681	-27.68738	979120.755	979148.464	27.143	8.845	0.03709	-8.967

APPENDIX B – GRAVITY EQUIPMENT SPECS

B.1 GRAVITY EQUIPMENT TECHNICAL SPECIFICATIONS

Survey Gravity Meters

6 × Scintrex AutoGrav CG-5M (s/n) 951
..... 966

Scintrex CG-5M Specifications

Sensor element ..... fused quartz elastic spring
Nulling ..... electrostatic restoring
Resolution 0.001mGal
Typical repeatability ..... σ<0.010mGal
Operating Range ..... minimum, 8000mGal
Residual long-term drift ..... <0.020mGal/day
Levels ..... electronic tilt sensors
Tilt correction range ..... ±200 arc sec
Data recording ..... flash technology, up to 200000 readings
Operating Temperature ..... -40°C to +45°C
Operating Temperature (high temperature version) ..... -40°C to +55°C
Dimensions ..... 33×21×20
Weight (including battery) 8.9kg
Power consumption ..... 4.5 Watts at 25°C

APPENDIX C - DIGITAL DATA

All the project raw and processed data files are archived at I EM CoE office in Milan, on DVD and magnetic tape.

GRAVITY DATA

Instrument raw files	*.txt (Scintrex meter)
Scanned operation field-books	*.pdf (L&R and Scintrex meters)
Base network	Base Ties .xlsx
Base network data ties	:\Base_ties_GR (all ties raw data)
Absolute reference data	:\INGS_reference
Loop data	OBServedGR.xlsx (Meter and tide corrected Observed Gravity)
Processed Data	CompleteBouguer.txt *Observed, Theoretical, Free Air and Terrain Correction, Simple and Complete Bouguer Anomaly. Final metric coordinates*

Report Deliverables

Acrobat pdf file of this report

Final Bouguer spreadsheet file (ATP_Complete_Boug_24gcc.xlsx).