

**SHIPBORNE GRAVITY, MAGNETIC  
AND BATHYMETRIC SURVEY  
DATA PROCESSING REPORT**

**OTWAY/SORELL BASIN  
OFFSHORE AUSTRALIA  
SPECULATIVE DATA**

**FOR**

**FUGRO-LCT INC.**

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## **I. INTRODUCTION**

A shipborne geophysical survey was conducted offshore Australia in the Otway/Sorell Basin by Fugro Geoteam for Seismic Australia. Fugro-LCT was responsible for the acquisition and processing of the gravity and magnetic data for this survey.

The survey was acquired in two phases. Phase I data were acquired from April 29, 2001 to June 11, 2001 and Phase II data were acquired from November 2, 2001 to December 18, 2001. Phase I consisted of 3,752 kilometers of gravity, 3750 kilometers of bathymetry, 3,752 kilometers of magnetics and 3,756 kilometers of navigation data. Phase II consisted of 4,022 kilometers of gravity, 4,021 kilometers of bathymetry, 3,975 kilometers of magnetics and 4,022 kilometers of navigation data. The gravity, magnetics, bathymetry, and navigation data were acquired simultaneously with seismic data on-board the R/V Geo Arctic. This vessel was operated by Fugro Geoteam who acted as the primary acquisition contractor for this work. An [index map](#) of the survey area of interest is included in Appendix 1. A [brief line report](#) is included in Appendix 2 for the survey area.

The products resulting from the work described herein include: 1) CDROM containing the raw and reduced line-oriented data and grids of bathymetry, 3-D Bouguer gravity, free-air gravity and magnetic anomaly; 2) paper color contour maps of bathymetry, 3-D Bouguer gravity, 30km High Pass of 3-D Bouguer gravity, free-air gravity and magnetic anomaly.

When discussion in this report pertains to specific lines, the seismic line name is given along with the Fugro-LCT-assigned sequential line number. This line number is useful because it is generally sequenced in chronological order. Also, it is unique; the seismic name may be duplicated due to line segments and re-shoots. This work was performed under Fugro-LCT job number 7503.

## **II. FIELD OPERATIONS**

### **A. EQUIPMENT**

Gravity data were acquired using a Ultrasys™ marine gravity system consisting of a LaCoste & Romberg Air/Sea dynamic gravity meter, equipped with a ZERO LENGTH SPRING (ZLS) control system, serial number S-65. The ZLS control system is fully digital and uses a real-time multi-tasking environment. The gravity data were recorded at 1 second intervals on hard disk and delivered to Fugro-LCT's office on magneto optical disk.

The Primary Navigation system used was Fugro Starfix Spot Differential GPS and the secondary system used was Fugro Starfix MN8 Differential GPS. These navigation data were recorded at one second intervals and delivered to Fugro-LCT's office on magneto optical disk.

The bathymetry data were acquired using a Simrad EA500 fathometer system. Navigation and bathymetry data were recorded at each shotpoint on magnetic tape by Fugro Geoteam and supplied to Fugro-LCT on a 8mm tape in P1/90 format.

A magnetometer system consisting of an Elsec type 7706 Console, deck cable, floating cable and a 3coil marine sensor were used for this survey. The sensor is a proton precession device that measures total magnetic field intensity via the precession frequency of spinning protons in a hydrogen rich fluid (paraffin or seismic cable fluid). The magnetometer was operated at a sampling rate of 3 seconds and a sensitivity of 1 nT. The magnetometer's RS232 digital output was input to the Unison recording computer via a PC laptop computer running the program MagRec4. MagRec4 reformatted the string to a Unison acceptable configuration. Magnetometer data was automatically archived each hour by the Unison computer, stored on 2 different hard drives and also copied to magneto optical disk for shipment.

### **III. DATA PREPARATION**

Fugro-LCT read the gravity and magnetic data contained on the magneto optical disk. Data consisted of month, day, time, beam position, beam slope, cross accelerometer, long accelerometer, spring tension, 3 minute RC filtered gravity and raw magnetics. These data were input to Fugro-LCT's line-oriented database DATAPRO™ and a database was created at a time increment of 1 second.

Fugro-LCT read the one second navigation data contained on the magneto optical disk. These data were recorded on the WGS-84 datum at the antenna position in ASCII format. This format consisted of latitude, longitude, bathymetry, heading, speed, Julian day, and time. These data were input into the Fugro-LCT DATAPRO™ database containing the gravity data.

Fugro-LCT read the latitude, longitude, shotpoint and water depth data contained on the navigation P1/90 tape. These data were input into the Fugro-LCT DATAPRO™ database containing the gravity data.

All original recorded data were scanned with the use of interactive display software on Fugro-LCT's workstation. Spurious points were edited by checking against the analog data records when necessary and available.

A complete description of the data processing parameters and line characteristics for each line is included in [Appendix 3](#). The survey data production reports for the raw and processed data are included in [Appendix 4](#).

#### **IV. BATHYMETRY DATA PROCESSING**

Bathymetry data were received by Fugro-LCT in digital form. Each line of data were displayed and carefully checked for validity. A color map of the bathymetry for the area of interest is included in [Appendix 1](#).

#### **V. GRAVITY DATA PROCESSING**

##### **A. RECONSTRUCTION OF GRAVITY DATA**

Gravity data were acquired using a LaCoste & Romberg Air/Sea dynamic gravity meter with the real-time digital ZLS control system (S-65). This system samples all raw data at 200 times per second. This sampling is more than adequate to capture all the necessary information in the data without aliasing. These data are then averaged to produce raw 1 second samples that are output to the digital file. Cross coupling channels are calculated in real time at 25 times per second, and digitally logged using a 1-second sample rate in the high-resolution mode.

For purposes of real-time quality control, digital filters are applied to emulate the conventional “analog meter gravity” produced by older analog control systems. This is performed by applying 3 minutes of RC filters to the 1 second data.

To obtain maximum signal from the data, Fugro-LCT recomputes digital meter gravity from the raw components of: 1) Spring Tension, 2) Beam Slope and 3) Total cross coupling correction. This allows the level of digital filtering to be chosen based on the noise level of the data. Also, by performing the digital filtering during final post processing, digital filters can be applied which are superior to RC filtering applied for real time quality control purposes. The derivation of meter gravity is as follows:

$$\text{Reconstructed Meter Gravity} = S + kB' + CC$$

where,

S = spring tension

B' = slope of the averaged beam position

k = gain factor to calibrate beam slope to mGal

CC = total cross coupling correction

This reconstructed meter gravity is then used for all subsequent processing and analyses.

## **B. CROSSCORRELATION PROCEDURE**

A method for evaluating and correcting shipboard gravity data was suggested by LaCoste (LaCoste, L., August 1973, Geophysics, Vol.38, P.701-709), which makes use of the assumption that there should be no crosscorrelation between ships motion and variations in observed gravity (corrected for Eötvös effects). Ship's motions are described by several monitors, which consist of ship accelerations and velocities and products of two or more such accelerations and velocities. These monitor channel data are being recorded simultaneously with gravity data. Standard L&R monitor channels include:

(VCC) - proportional to the product of the vertical velocity times the long acceleration

(VE) - proportional to the vertical acceleration squared

(AL) - proportional to the product of vertical acceleration times the long acceleration

(AX) - proportional to the product of vertical acceleration times the cross acceleration

(AX2) - proportional to the product of vertical acceleration times the cross acceleration squared

The VCC term is also called the inherent cross-coupling, since it is inherent in any type of gravity meter where mechanical design prevents the sensor mass from moving along a straight vertical axis. The other terms are called imperfection cross-couplings, since they arise from the inability to produce a perfectly mechanically rigid meter. Flexure of real-world components produces a variety of cross-talks between horizontal vertical accelerations. The crosscorrelations between the curvature (second derivative) of gravity and each monitor channel can be used to construct a gain factor for each channel. These gain factors, when applied to the respective channels, minimize the curvature of the corrected meter gravity data. This procedure is used by the meter manufacturer to adjust the gain settings for each channel using laboratory dynamic motion machines. The same method can also be used to improve the quality of processed data, particularly when data are acquired in high sea states. In low sea states, maladjusted gains may not be apparent because cross-coupling effects are typically not significant. However, in high sea states improperly set gains can generate large errors in the cross-coupling correction computed by the acquisition system. The

cross-coupling gain factors, and hence the final processed data quality, can be greatly improved through post-survey crosscorrelation analysis.

### C. METER CALIBRATION

The gravity data from a LaCoste and Romberg stable platform air-sea gravity meter is recorded in counter units. To convert counter units to milligals, the gravity data is multiplied by a meter calibration factor. Gravity meter S-65 has a calibration factor of 0.9909.

### D. GRAVITY DRIFT CORRECTION AND DATUM SHIFT

Gravity still readings are typically performed in port to assess the meter drift and to facilitate a tie to a world gravity network. Nine still readings were acquired during the period of this survey. The following still reading values were calibrated and corrected to mean sea level. The location of the still readings were as follows:

Still Reading	Location	Latitude	Longitude	Date
1	Berth#6,Macquarie Wharf, Hobart, Tasmania, Australia	42° 52.6612' S	147° 20.4684' E	Apr. 28, 2001
2	Berth #7, Burnie, Tasmania, Australia	41° 03' 20.33" S	145° 54' 36.34" E	May 30, 2001
3	Berth #7, Burnie, Tasmania, Australia	41° 03' 20.33" S	145° 54' 36.34" E	May 30, 2001
4	Grain Berth, Port of Kembla, Australia	34° 28.2031' S	150° 54.0463' E	June 21, 2001
5	Grain Berth, Port of Kembla, Australia	34° 28.2031' S	150° 54.0463' E	June 21, 2001
6	Berth #5, Burnie, Tasmania, Australia	41° 03' 12.16" S	145° 54' 38.06" E	Oct. 28, 2001
7	Berth#5, Portland Harbour, Victoria,Australia	38° 21' 06.39" S	141° 37' 04.06" E	Nov. 16, 2001
8	Berth #6, Burnie, Tasmania, Australia	41° 03' 16.85" S	145° 54' 38.23" E	Dec. 19, 2001
9	Berth#6,Macquarie Wharf, Hobart, Tasmania, Australia	42° 52' 45.2363" S	147° 20' 23.1663" E	Jan. 7, 2001



The still reading's values were:

Still Reading	Julian Day/Year	Gravity Value (mGal)
1`	116/2001	11952.797
2	150/2001	11783.253
3	150/2001	11783.155
4	172/2001	11228.548
5	173/2001	11228.498
6	301/2001	11786.287
7	320/2001	11550.037
8	353/2001	11785.969
9	007/2002	11956.893

Owing to the fact that still reading #1 and still reading #9 were acquired at the same location, only these two still readings were used to determine gravity meter drift and to tie the gravity data to the world gravity network.

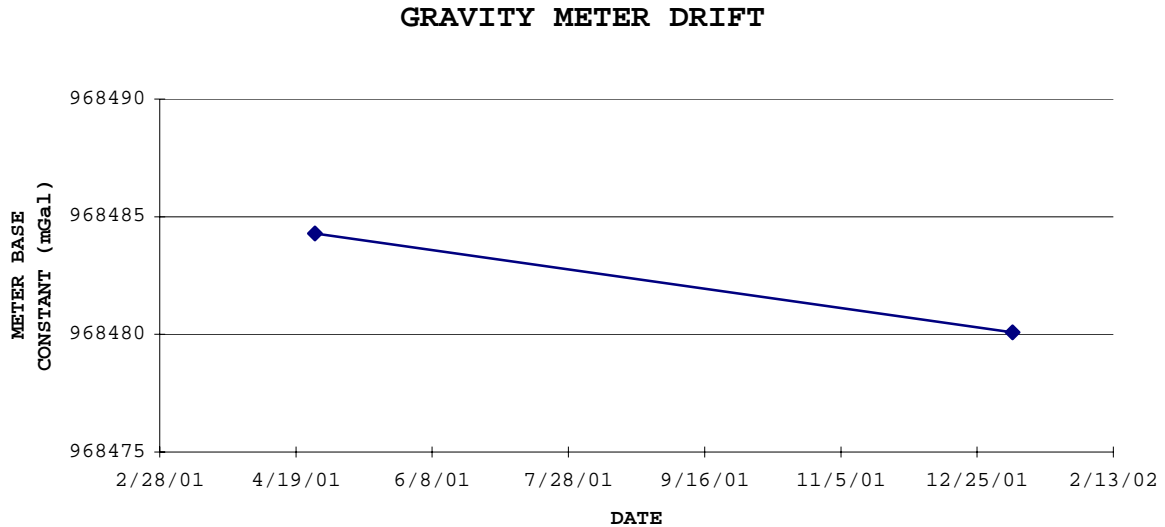
The following gravity base station was used to tie the survey to the world gravity network. See Gravity Base Station description in [Appendix 8](#).

Location	Absolute gravity value
Macquarrie Wharf #6 Hobart Harbour Hobart, Tasmania, Aus.	980,437.08 mGal

The calibrated still readings were used to yield base constants for the survey.

Absolute station gravity #1	980437.080
Less Calibrated still reading #1	<u>11952.797</u>
Base Constant #1	968484.293
Absolute station gravity #1	980437.080
Less Calibrated still reading #9	<u>11956.893</u>
Base Constant #2	968480.081

A base constant was applied to each line, based upon an assumed linear drift response calculated for the midpoint of the line. This base constant, when added to each calibrated meter reading, yields absolute station gravity for each observation point. Figure 1 displays meter drift for this survey.



**Figure 1. Meter Drift Curve**

## **E. EARTH TIDES**

Gravity meters are sensitive enough to respond to the gravitational attraction of the sun and moon and register the periodic variations in the attraction caused by movements of the earth with respect to these bodies. The waters of the earth are regularly raised and lowered by such forces in predictable tidal cycles. These tidal forces affect the earth itself. Gravity changes, as a result of these forces, vary with latitude, time of month, and time of year. The complete tidal cycle is accompanied by a gravity change of 0.2 to 0.3 mGal.

An earth tide correction was calculated using an algorithm based on the formulae given in: Longman, I.M., 1959: Formulas for computing the tidal acceleration due to the moon and the sun. *J. Geoph. Res.*, 64, pp 2351-2355. This correction was calculated on a point by point basis and added to the calibrated gravity.

## F. EÖTVÖS CORRECTION

Eötvös correction is generally the single most important factor limiting the accuracy of gravity data acquired on a moving platform. Dramatic improvements in navigation systems have reduced the error level in applying this correction, but it still remains a significant component of the data reduction process. The Eötvös effect is the result of the vectorial addition of the gravity meter's velocity and the earth's rotation velocity. This effect alters the centrifugal force of normal gravity measured on a rotating Earth.

The form of the Eötvös correction is:

$$E = 7.503 V \cos\varnothing \sin\mu + 0.004154 V^2$$

where E is in milligals for a gravity meter whose speed is V knots at an azimuth angle of  $\mu$  and latitude  $\varnothing$ .

A number of conditions exist which impair the removal of the Eötvös effect using this formula on a point to point basis. Errors in positioning or time of position fix, translate to errors in the determination of instantaneous ship's velocity and course producing an Eötvös correction different from the event measured by the gravity meter. An error of 1 knot in ship's speed along an east-west course at the equator corresponds to an error in Eötvös correction of approximately 7.5 milligals. Likewise, for a constant ship's speed of 10 knots and a near north-south course, an error in course of 1 degree corresponds to an error in Eötvös correction of approximately 1 milligal. Filters in both the gravity meter and the navigation system also alter the way each system measures the Eötvös effect. However, distortions due to filtering have been minimized as the Eötvös effect is calculated from the velocity and heading data obtained from the GPS receiver. These data are sampled at every one second and are unfiltered.

Two main categories of corrections need to be addressed by the Eötvös removal algorithm: 1) Eötvös events measured by both the navigation data and the gravity meter may differ in amplitude and phase due to positioning errors and system filtering, and 2) fictitious errors in Eötvös correction can be created by errors in position and are not related to real ship motion.

Fugro-LCT computes the Eötvös correction using a time-varying decorrelation procedure which, in general terms, presumes that correlation existing between observed gravity and computed Eötvös effect is true Eötvös effect and should be removed. Similarly, fictitious Eötvös events caused purely by errors in ship's position will not correlate with observed gravity and will not be used in the final correction.

Time windows of observed gravity and raw Eötvös are crosscorrelated, and adjustments are made to the phase and amplitude spectra of the raw Eötvös so as to minimize the correlation between the output corrected gravity and the Eötvös effect. If the positioning data indicate an Eötvös anomaly, which correlates with the gravity, the decorrelation process will shape the amplitude and phase components of the correction so as to eliminate the correlation. Similarly, if the positioning data indicate an Eötvös event that does not correlate with the observed gravity, the decorrelation process will remove the Eötvös event from the final Eötvös correction.

The decorrelation process is performed interactively by the project geophysicist on a workstation using Fugro-LCT's DPDCOR™ module. The geophysicist carefully selects the parameters on a line by line basis so as to retain as much signal as possible with the minimum of filtering to the data. DPDCOR™ also displays the water depth trace so that the geophysicist does not alter any high frequency events that may be caused by shallow geological features

## **G. COMPUTATION OF GRAVITY ANOMALIES**

Given the large effects of latitude, terrain, and density that are expressed in a gravity observation at a particular sample point, it is customary to compute a theoretical gravity field that gives an expected value of gravity at the point.

This theoretical field is removed from the observed gravity field, and the resultant anomaly field is then interpreted to determine the differences between the actual geologic environment and the assumptions built into the theoretical gravity field model.

Each of the corrections described below have assumptions inherent to them. It is important to understand that each successive step in the processing sequence changes the assumptions involved in producing the theoretical gravity field. Subsequent interpretations must, therefore, return to the correction assumptions for proper understanding of the anomaly field.

Two levels of corrections are generally used: 1) the free-air correction and 2) the Bouguer correction. The theoretical effects of these assumptions are calculated to yield theoretical free-air gravity and theoretical Bouguer gravity, respectively. Subtracting these theoretical fields from the absolute station gravity fields yields free-air anomaly and Bouguer anomaly, respectively.

## THEORETICAL GRAVITY CORRECTION PROCEDURES

a) Theoretical Latitude Correction - using the 1967 Geodetic Reference System (GRS67): This formula gives the theoretical value of gravity at any latitude on the spheroid. The GRS67 value is the starting point for all subsequent correction steps.

$$G_{\phi} = 978031.846 (1.0 + 0.005278895 \sin^2 \phi + 0.000023462 \sin^4 \phi)$$

where  $\phi$  is latitude in degrees and  $G_{\phi}$  is the theoretical value of gravity for that latitude.

b) Free-Air Gravity Correction: The free-air factor corrects the GRS67 theoretical gravity value for the height of the observation station above the spheroid. For conventional marine work, this is typically assumed to be 0.

c) 3-D Bouguer Correction: This correction incorporates in a single step the simple Bouguer slab correction and the terrain correction. The 3-D Bouguer correction adjusts the theoretical free-air gravity for the presence of mass between the observation station and the spheroid for land stations, and for the lower density of sea water compared with seafloor sediment densities for marine. Thus, it should be recognized that there is a change in definition in the Bouguer model at the shoreline. This factor is frequently mistaken both in the literature and in modeling work.

A density of  $2.20 \text{ g/cm}^3$  was used to compute the 3-D Bouguer Correction, this was a density which had been previously used in this area (actual density:  $2.20 - 1.03 = 1.17$ ).

d) Theoretical Free-Air Gravity is defined as:

$$\text{Theoretical Free-Air Gravity} = \text{GRS67} - (\text{Free-Air Correction})$$

e) Theoretical 3-D Bouguer Gravity is defined as:

$$\begin{aligned} \text{Theoretical 3-D Bouguer Gravity} = \\ (\text{Theoretical Free-Air Gravity}) + (3\text{-D Bouguer Correction}) \end{aligned}$$

## ANOMALY CALCULATIONS

a) Free-Air Anomaly (also referred to as Free-Air Gravity) is calculated as:

$$\begin{aligned} \text{Free-Air Anomaly} = & (\text{Absolute Station Gravity}) - \\ & (\text{Theoretical Free-Air Gravity}) \end{aligned}$$

b) 3-D Bouguer Anomaly(also referred to as 3-D Bouguer Gravity) is calculated as:

$$\text{3-D Bouguer Anomaly} = (\text{Absolute Station Gravity}) - (\text{Theoretical 3-D Bouguer Gravity})$$

## TERRAIN CORRECTIONS

### a) Generation of the Terrain Model

Terrain for gravity corrections were derived from a merged bathymetry grid that consisted of marine bathymetry acquired on this survey and ETOPO5 topography data. These terrain data included a halo of data with a minimum distance of 167,000 meters from the survey area. This bathymetry grid has a grid increment of 1500 meters and was used as input to LCT's MARTEFF™ program.

### b) Terrain Correction Computations

The Complete Bouguer correction for work in this area can be handled by Parker's (1973) algorithm for forward gravity computation. Parker's algorithm calculates the Fourier transform of the gravity field as a sum of filtered Fourier transforms of powers of the bathymetry:

$$F(g) = 2\pi G e^{-2\pi k z_0} \sum_{n=1}^{\infty} \frac{(-2\pi k)^{n-1}}{n!} F(\rho b^n)$$

Here  $F$  is the Fourier transform,  $g$  is the gravity field,  $G$  is the universal gravitational constant,  $k$  is the radial wavenumber as defined by  $k = \sqrt{k_x^2 + k_y^2}$ ,  $z_0$  is the reference depth for the bathymetry,  $\rho$  is the density, and  $b$  is the bathymetry. The infinite series is truncated at the term whose RMS value is less than some convergence tolerance, usually chosen as 0.01 mGals. Since the Fourier transforms are computed using the FFT (Fast Fourier Transform) method, the bathymetry must be extended and tapered to minimize edge effects from wraparound convolution. This is done using a wraparound implementation of the Smith and Wessel (1990) minimum curvature method. Smith, W. H. F., and Wessel, P., 1990, Gridding with continuous curvature splines in tension: *Geophysics*, 55, 293-305.

The Complete Bouguer correction using a density of 2.20 g/cm<sup>3</sup> was computed using the terrain model discussed above. These grid data were interpolated back to the marine line data and added to the free-air gravity anomaly to produce the complete Bouguer anomaly.

## H. VERTICAL VELOCITY MONITOR (VMON)

Fugro-LCT uses a data quality assessment tool called the Vertical Velocity Monitor (VMON). VMON aids field personnel and Client QC representatives in estimating the final processed gravity data quality expected in the different operating conditions encountered during a survey. VMON is calculated from the one-second Beam position value and is recorded as a velocity in centimeters per second.

In detailed studies of gravity data acquired over areas where existing sea-bottom gravity data provide ground truth, it was found that the short-period vertical velocity measured by the gravity sensor is a definitive means of estimating processed gravity data quality. The vertical motion of the gravity instrument is the main parameter controlling final data quality, and the Vertical Velocity Monitor provides a method of gauging quality that is derived directly from the vertical motion.

The following standards have been established for the Vertical Velocity Monitor:

VMON in cm/sec	Expected Processed Gravity Data Quality
0 to 8	0.2 mGal at wavelengths of 500m and greater
8 - 24	0.2 to 0.5 mGal at wavelengths of 2km and greater
24 - 40	0.5 to 1.0 mGal at wavelengths of 4km and greater

Please note that VMON is not a QC tool to verify proper operation of a gravity meter. VMON simply provides a method of quantifying the vertical motion of the gravity sensor and allows the on board personnel a means of estimating processed data quality. A colored line [location map of vertical motion](#) (VMON) for the area of interest is included in Appendix 1.

## I. DATA QUALITY

The gravity data for this area were acquired during sea states ranging from 1 to 6 with the majority being between 3 and 4 as indicated by field logs and supported by the VMON (vertical velocity monitor) data. Filtering was kept to a minimum to retain as much signal as possible. However, lines acquired in heavier sea states generally require heavier filters. The following list shows the percentage of lines with the amount of filtering used.

PERCENT OF LINES	FILTER CUTOFF (sec)	EFFECTIVE CUTOFF
12.7	240	601 meters
15.0	300	752 meters
11.3	420	1052 meters
13.5	480	1203 meters
26.3	600	1504 meters
3.8	720	1804 meters
12.8	900	2255 meters
4.5	1200	3007 meters

## **VI. MAGNETIC DATA PROCESSING**

### **A. CABLE CORRECTION AND EARTH'S NORMAL FIELD REMOVAL**

An offset correction was applied to the magnetic data to align the magnetometer observations with the navigation observations. The following table displays the offsets used.

Cable Length (meters)	Dates
235	Apr. 29, 2001 – Dec. 18, 2001

The earth's normal magnetic field was computed for every sample point using the location and time of the point and the 2000 IGRF formula, updated to the survey dates. These theoretical earth's field values were then subtracted from the cable-offset corrected field values to produce magnetic anomaly.

### **B. DIURNAL MAGNETIC DATA**

Fugro-LCT obtained digital diurnal data from the Canberra Geomagnetic observatory, located at Lat: 35°18' 52.6" N and Lon: 149° 21' 45.4" E, for the period of the survey. These data were input into the Fugro-LCT DATAPRO™ database containing the marine magnetic data and scanned on a line by line basis.



### C. DECORRELATION OF SURVEY MAGNETIC DATA WITH BASE MAGNETOMETER DATA

The geomagnetic data from Canberra were decorrelated from the recorded magnetic data in an effort to remove the effects due to diurnal fluctuations in the surveyed magnetic field. The geomagnetic data contained some anomalies that correlated well with the marine magnetic data.

Survey network adjustment procedure was performed on both diurnal-corrected and uncorrected magnetics. Maps of both data sets were also created. The root mean square (RMS) mistie after systematic adjustment for the uncorrected magnetics was 12.82 nT. The root mean square mistie after systematic adjustment for diurnal-corrected magnetics was 5.77 nT. Based on these statistics and the visual comparison of the two maps, it was confirmed that the diurnal-corrected magnetics produced a higher quality data set.

Fugro-LCT performs the decorrelation on dedicated workstations that provide interactive control of the correction phase and amplitude shaping function. As stated above, the base station magnetics correlated with the marine magnetics in many places. However, many of the base station magnetic anomalies were of smaller amplitude than the marine magnetics. To compensate for the difference in amplitude, parameters were adjusted to increase the amplitude in the correction data. As a result, the effects of the base station magnetic data were adequately removed. The original magnetics, corrected magnetics and the base station magnetics are provided on tape.

### D. DATA QUALITY

The magnetic data are thought to be of good quality. A Butterworth filter with a cutoff of 60 seconds was applied to all lines. The following table summarizes missing data and the problem.

Missing Magnetics		
Julian day/s	Data lost (km)	Reason
328	19	Can't deploy due to bad weather
330	17	Problem with mag cable

## **VII. FILTERING**

Lowpass filtering was performed on the reduced data to eliminate the extraneous noise without removing valid signal information. These filters were chosen on a line by line basis by the Fugro-LCT project geophysicist during a careful simultaneous analysis of the raw, reduced, and filtered data. These filters were discussed with the client representative and subsequently approved. Fugro-LCT uses a Butterworth filter with the 50% amplitude reduction point positioned at the specified cutoff point. A complete listing of filters applied is given in [Appendix 3](#).

## **VIII. SURVEY NETWORK ADJUSTMENT PROCEDURES**

The survey network adjustment procedures are used to remove misties at line intersections, and to then prorate the mistie adjustments between adjacent intersections. Misties in dynamic potential field measurements are typically assigned two components, one being a systematic error between the data on crossing lines, and the other being due to random error. One example of a cause for systematic errors is positioning biases that are course dependent. This in turn lead to systematic differences in the average Eötvös correction for each of the intersecting lines. As mentioned above, a one degree error in position on a nearly north-south course causes a 1 milligal error in calculating the Eötvös correction. Other causes for systematic errors include intentional or unintentional changes in system calibration (particularly gravity and bathymetry), improper assignment of gravity meter drift based on widely separated still readings, and cross-coupling errors related to course and sea states.

The method used by Fugro-LCT to derive the systematic corrections assumes that, although there may be multiple sources of error, their net effect varies slowly over a single line, so that it may be described as a low-order polynomial. This is accomplished by a linear least-squares method for fitting orthogonal polynomials to minimize the sum of the squares of the crossover errors. This method has the advantage that it preserves the shapes of the original anomalies along individual profiles, while reducing the crossover error. A complete description of the line intersection misties before and after systematic adjustment is included in [Appendix 5](#).

The misties after systematic adjustment are removed by assigning a weighting factor to each intersection. This factor is based on the statistical data quality of each line. The final value is determined for each intersection, and the correction is then prorated between adjacent intersections.

## IX. SURVEY NETWORK ADJUSTMENT RESULTS

Of primary importance to the interpreter is the confidence level to apply during the quantitative evaluation of the processed data. The confidence level of line oriented geophysical data is typically determined using a statistical analysis of the survey misties. This analysis can be performed in a line oriented manner, i.e., a set of statistical values are formed for each line (such as average root mean square (rms) error of the misties on each line), and these line statistics are compared with each line to formulate a confidence level. In this approach, the number of intersections needs to be considered in conjunction with the average value obtained. Lines with less than the average number of intersections per line are perhaps not as statistically valid as lines with a greater number of intersections. In particular, a line with only one intersection will have an rms error after systematic adjustment of zero regardless of the quality of the data along the line. Another approach is to inspect the misties without using any line dependencies, i.e., each intersection mistie is an individual value. The results summarized below are obtained from a combination of these approaches.

The following tables contain statistical data on the misties based on the line-oriented statistics. A more complete listing of this information is contained in [Appendix 6](#). (BASA = before application of systematic adjustment; AASA = after application of systematic adjustment; ABS. MAX = absolute maximum mistie value; ABS. MEAN = mean absolute mistie value; RMS = root mean square mistie value.)

FREE-AIR GRAVITY (mGal)			
	ABS. MAX	ABS. MEAN	RMS
BASA	4.49	6.24	1.67
AASA	1.29	1.31	0.38

3-D BOUGUER GRAVITY (mGal)			
	ABS. MAX	ABS. MEAN	RMS
BASA	4.49	6.24	1.67
AASA	1.29	1.31	0.38

MAGNETIC ANOMALY (nT)			
	ABS. MAX	ABS. MEAN	RMS
BASA	95.98	17.51	24.00
AASA	31.72	3.51	5.77

Figures 2-7 illustrate the network misties before and after systematic adjustment for the processed data types.

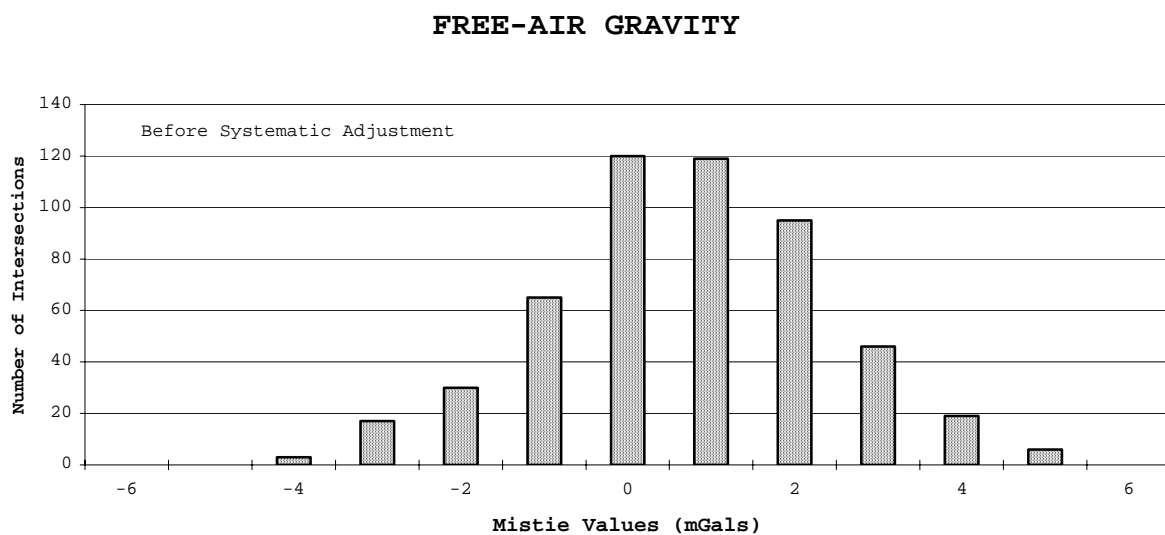
## X. GRIDDING AND MAPPING

The line-oriented survey data sets for adjusted bathymetry, adjusted free-air gravity, adjusted 3-D Bouguer gravity and adjusted total magnetic anomaly were gridded using a minimum curvature algorithm at a grid increment of 1500 meters.

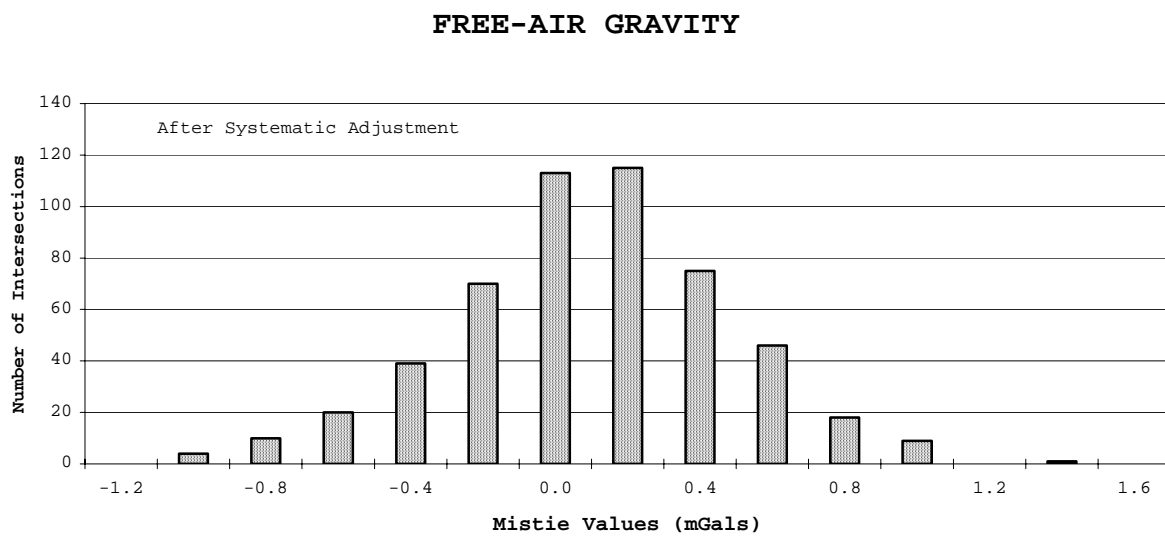
Color maps of [free-air gravity](#), [3-D Bouguer gravity](#) and [magnetic anomaly](#) are included in Appendix 1.

The following parameters were used for the line-oriented data sets and grids:

PROJECTION PARAMETERS	
Datum:	AGD 84
Projection:	Universal Transverse Mercator
Spheroid:	Australian National
Central Meridian:	141° East
Latitude Origin:	0.0
False Easting:	500,000.0
False northing:	10,000,000.0
Units:	Meters
Scale Factor:	0.9996

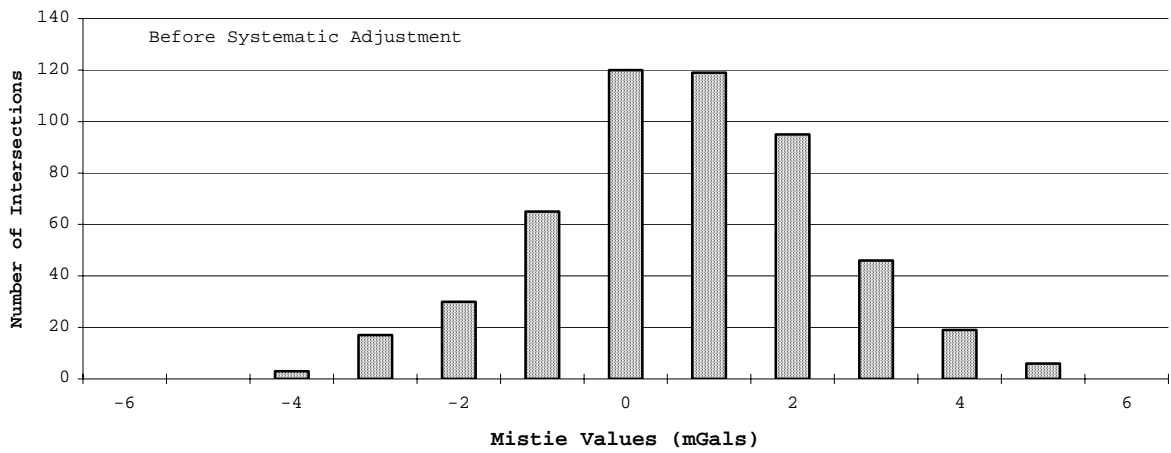


**Figure 2. Histogram of Free-air Gravity Misties Before Systematic Adjustment**



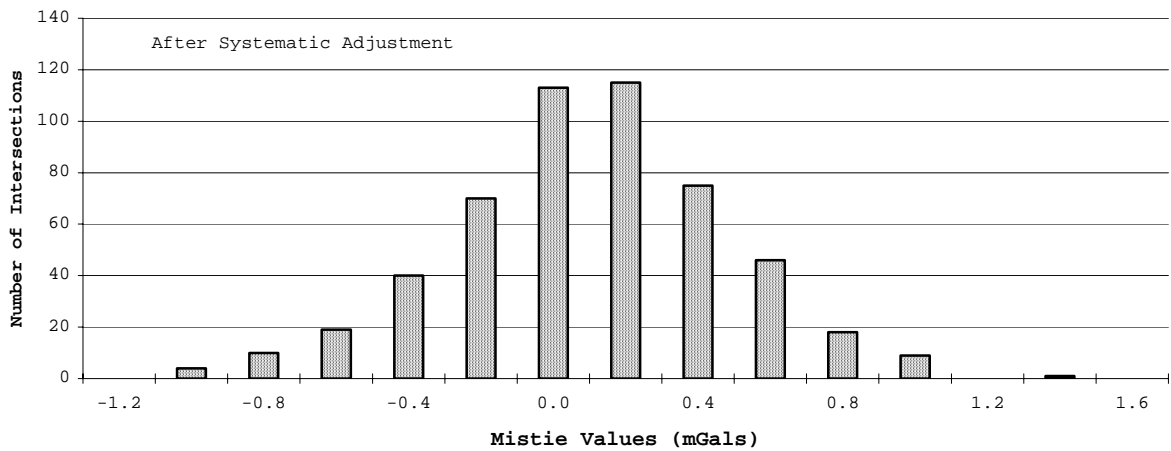
**Figure 3. Histogram of Free-air Gravity Misties After Systematic Adjustment**

### 3-D BOUGUER GRAVITY



**Figure 4. Histogram of 3-D Bouguer Gravity Misties Before Systematic Adjustment**

### 3-D BOUGUER GRAVITY



**Figure 5. Histogram of 3-D Bouguer Gravity Misties After Systematic Adjustment**

## MAGNETIC ANOMALY

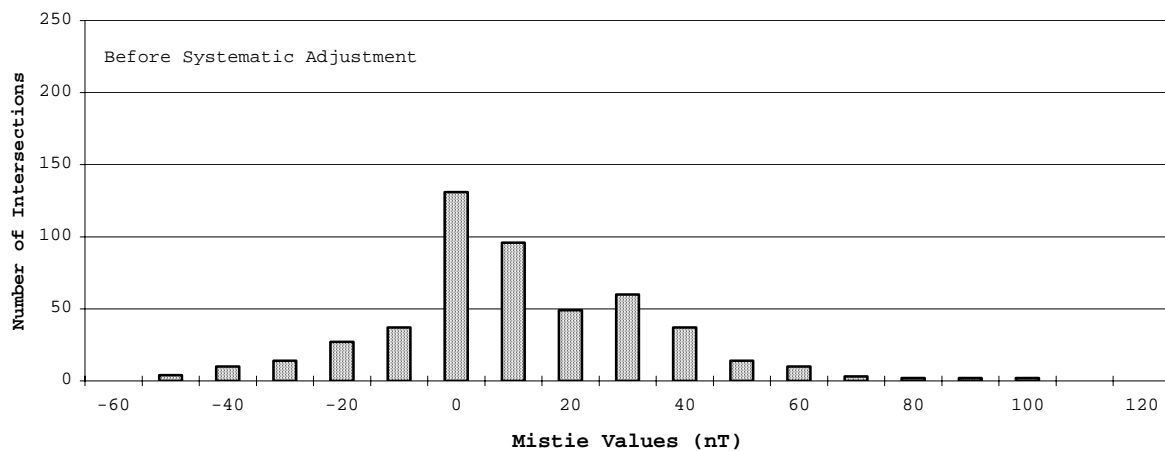


Figure 6: Histogram of Magnetic Anomaly Before Systematic Adjustment

## MAGNETIC ANOMALY

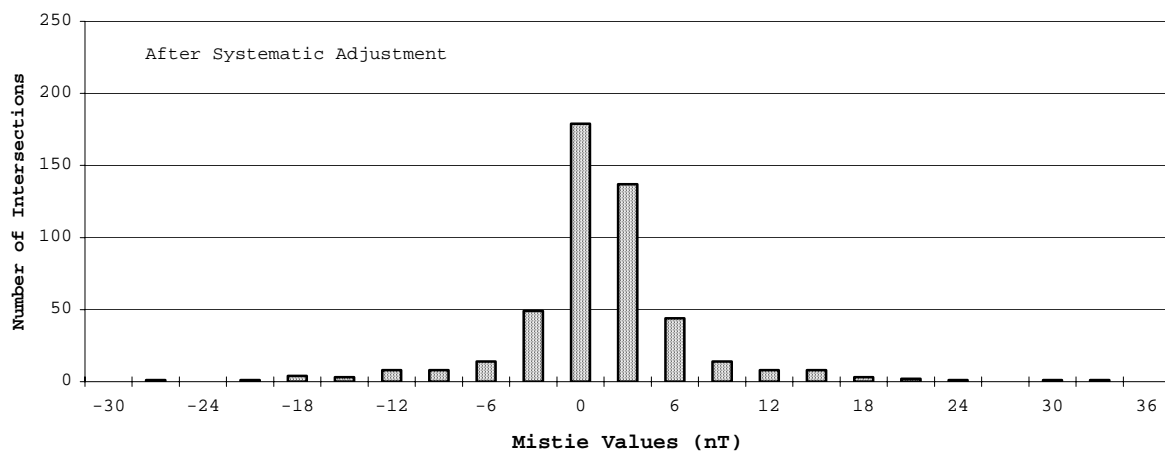


Figure 7: Histogram of Magnetic Anomaly Misties After Systematic Adjustment

## **XI. FINAL PRODUCTS**

### **A. MAPS**

Color contour maps of line locations, bathymetry, free-air gravity, 3-D Bouguer gravity, 30km High Pass of 3-D Bouguer gravity and magnetic anomaly were produced on paper. The maps were produced at a scale of 1:400,000. The data were plotted at the antenna position.

### **B. CDROM**

A final CDROM was prepared containing the raw and reduced line-oriented data and grids of bathymetry, free-air gravity, 3-D Bouguer gravity and magnetic anomaly. A complete description of the CD files is included in [Appendix 7](#).



## **XII. SUMMARY**

A shipborne geophysical survey was conducted offshore Australia in the Otway/Sorell Basin by Fugro Geoteam for Seismic Australia. Fugro-LCT was responsible for the acquisition and processing of the gravity and magnetic data for this survey.

The survey was acquired in two phases. Phase I data were acquired from April 29, 2001 to June 11, 2001 and Phase II data were acquired from November 2, 2001 to December 18, 2001. Phase I consisted of 3,752 kilometers of gravity, 3,750 kilometers of bathymetry, 3,752 kilometers of magnetics and 3,756 kilometers of navigation data. Phase II consisted of 4,022 kilometers of gravity, 4,021 kilometers of bathymetry, 3,975 kilometers of magnetics and 4,022 kilometers of navigation data. The gravity, magnetics, bathymetry, and navigation data were acquired simultaneously with seismic data on-board the R/V Geo Arctic. This vessel was operated by Fugro Geoteam who acted as the primary acquisition contractor for this work.

Fugro-LCT Inc.

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Dan L. Paddock  
Data Processing Analyst

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J. Robert Vivian  
Vice President  
Data Processing

# **APPENDIX 1**

## **REPORT MAPS**

[INDEX MAP](#)

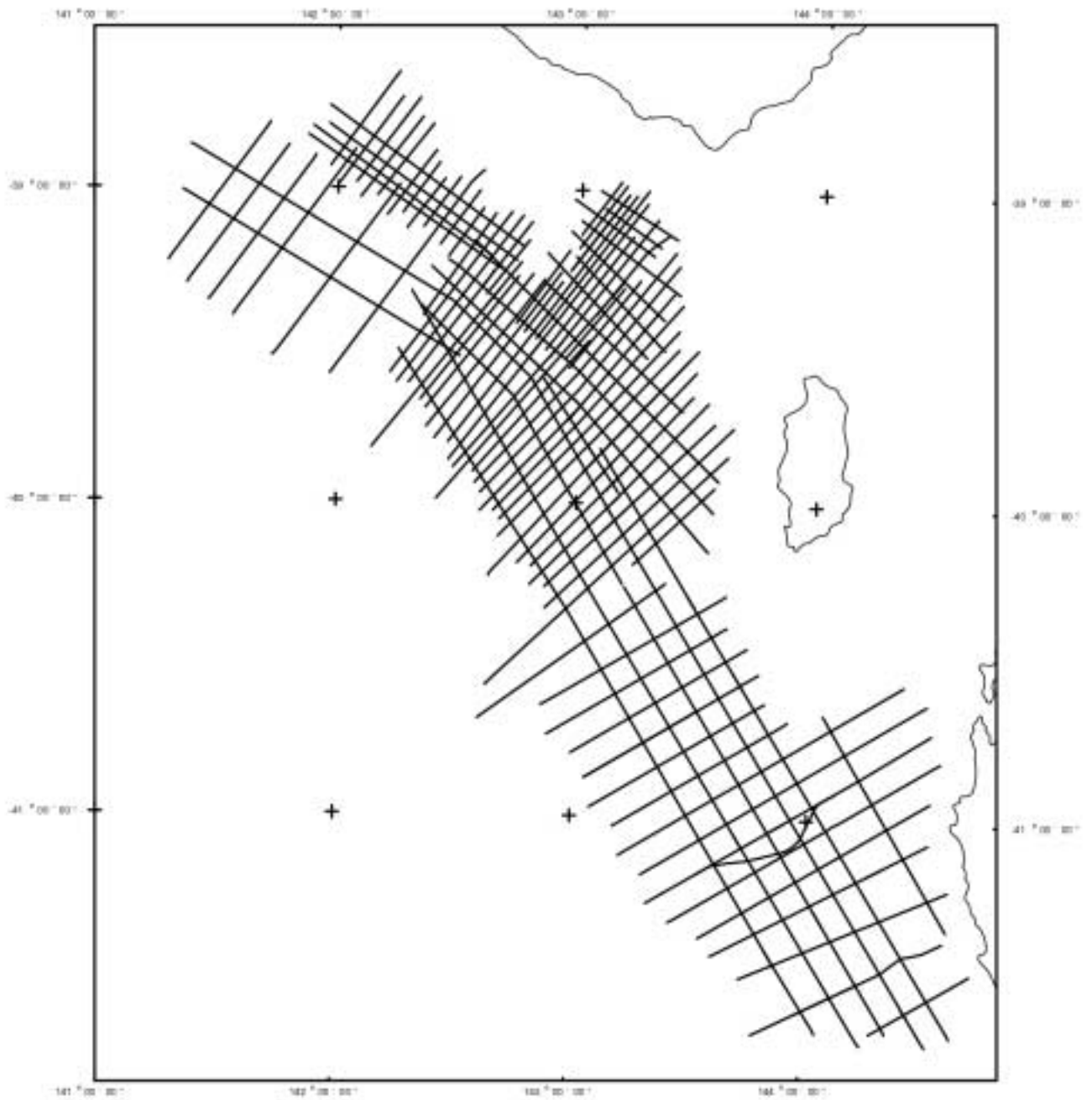
[VMON MAP](#)

[BATHYMETRY MAP](#)

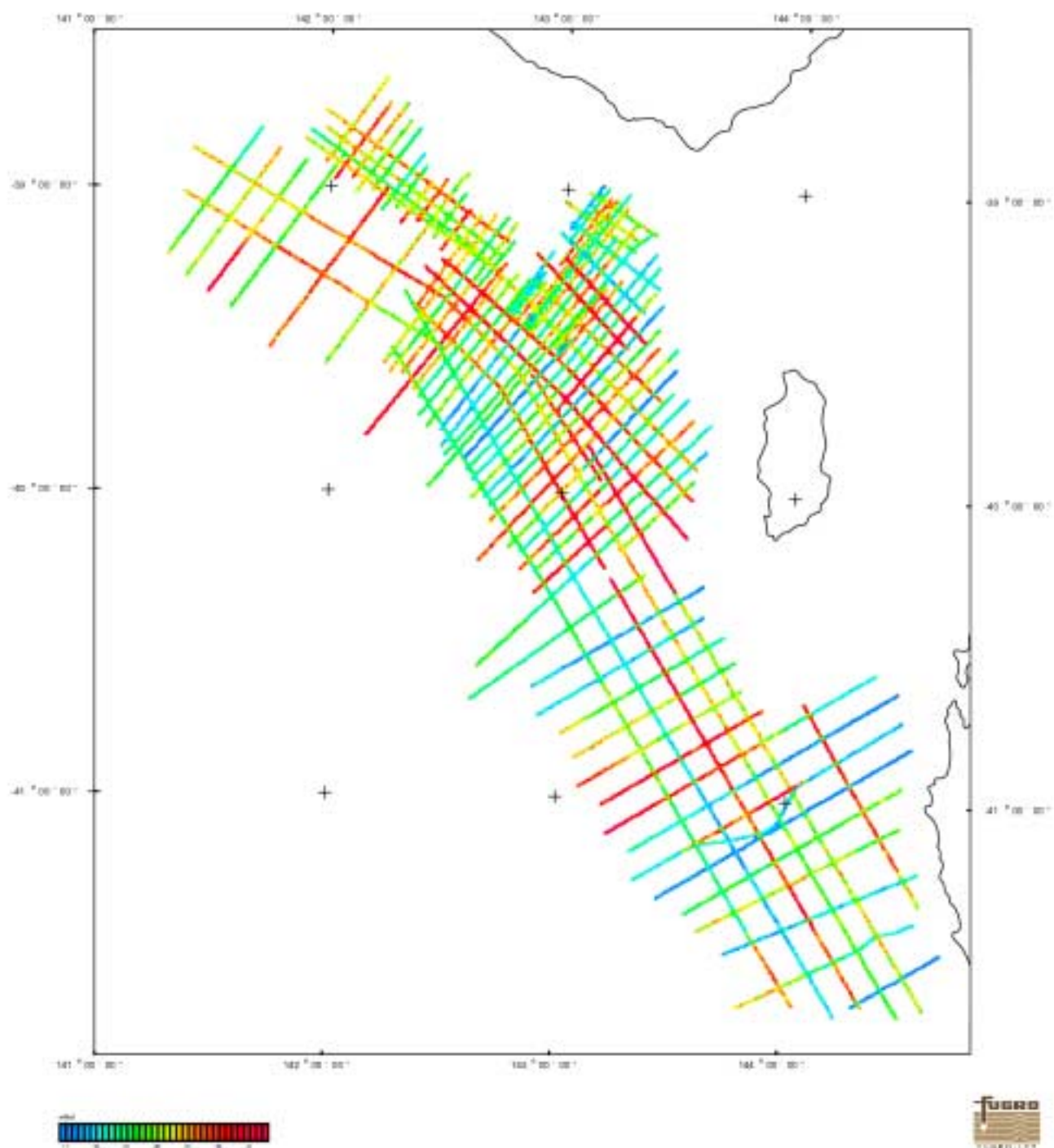
[FREE-AIR GRAVITY MAP](#)

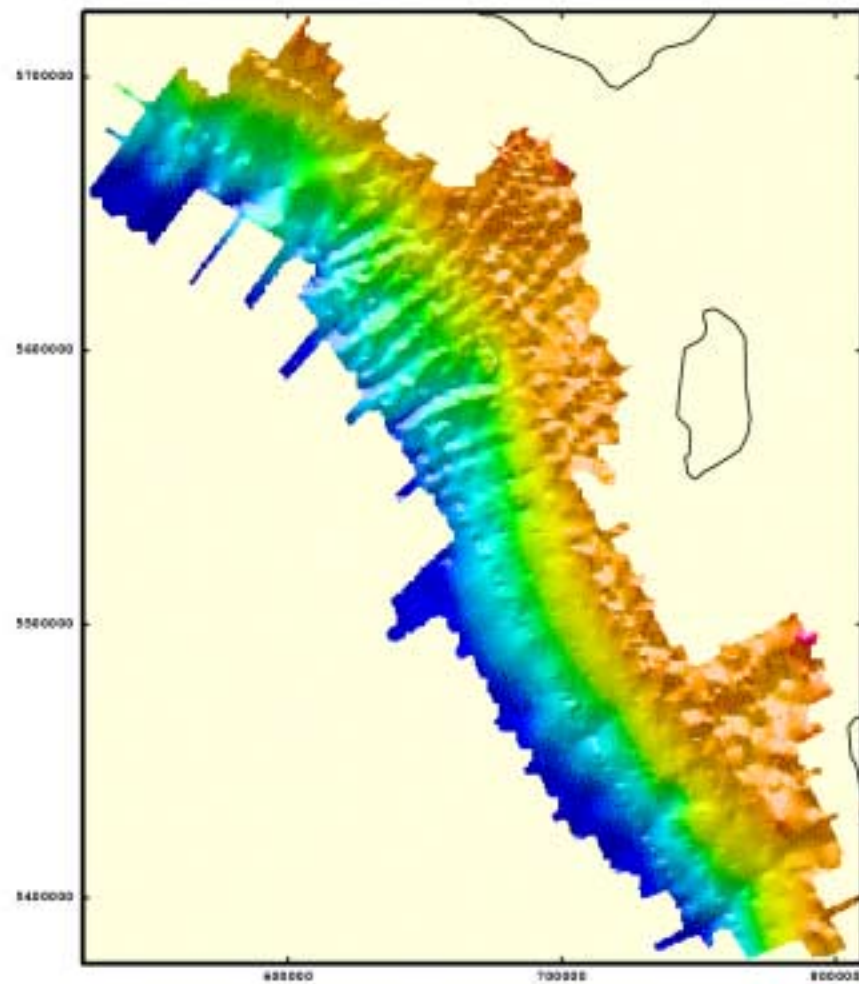
[3-D BOUGUER GRAVITY MAP](#)

[MAGNETIC ANOMALY MAP](#)

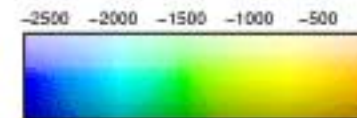


Survey Index Map





Illumination Azimuth: 0 Elevation: 45  
Vertical Exaggeration: 10000



meters

FUGRO-LCT INC.

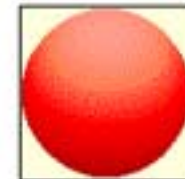
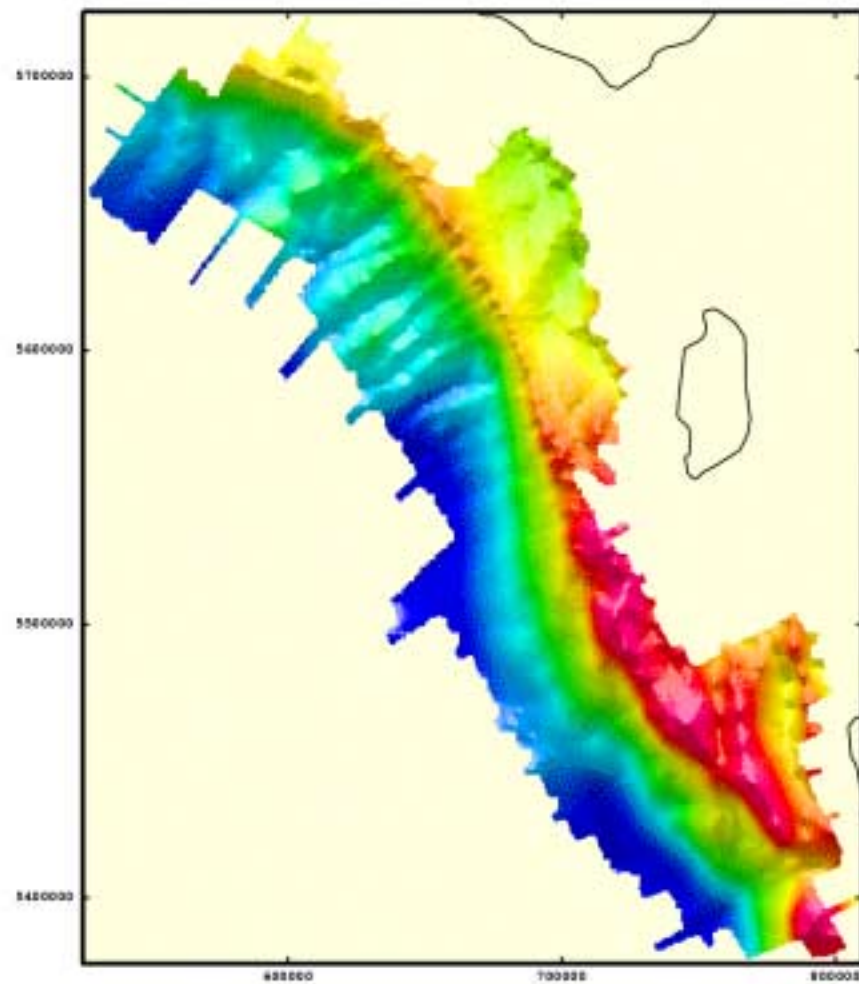
NON-EXCLUSIVE SURVEY

OTWAY/SORELL BASIN - AUSTRALIA

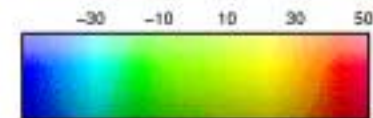
BATHYMETRY

GRID INTERVAL = 1500 METERS





Illumination Azimuth: 0 Elevation: 45  
Vertical Exaggeration: 10000



mGal

FUGRO-LCT INC.

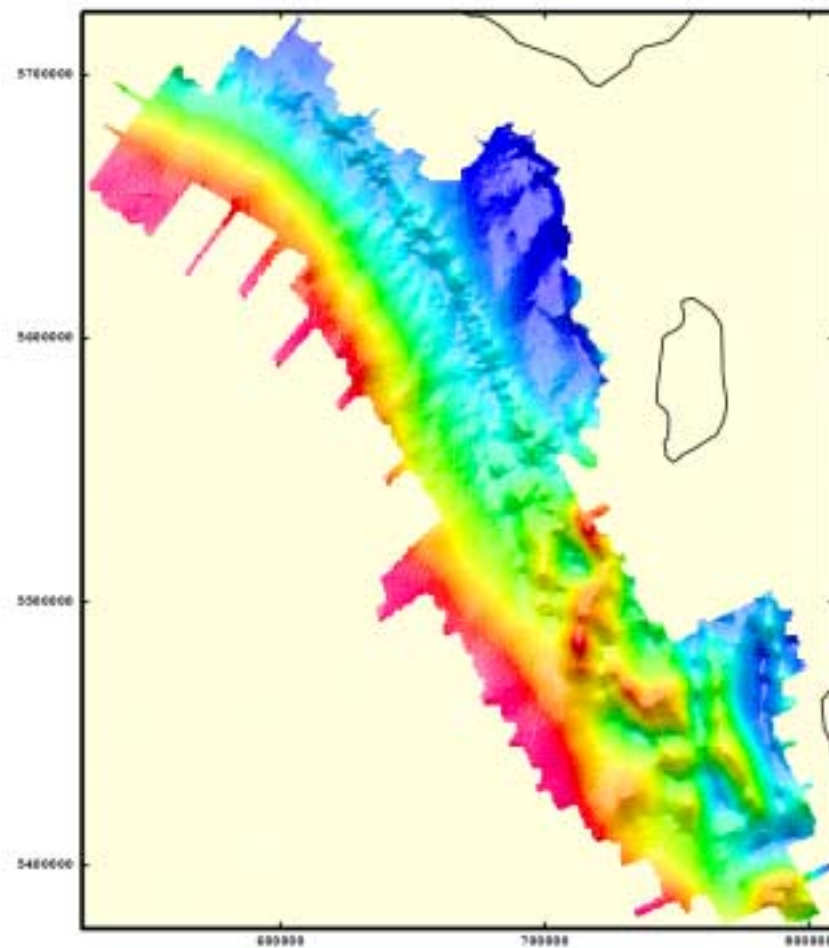
NON-EXCLUSIVE SURVEY

OTWAY/SORELL BASIN - AUSTRALIA

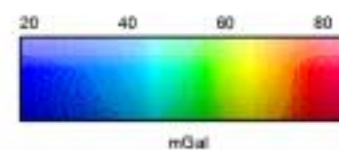
FREE-AIR GRAVITY

GRID INTERVAL = 1500 METERS





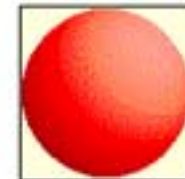
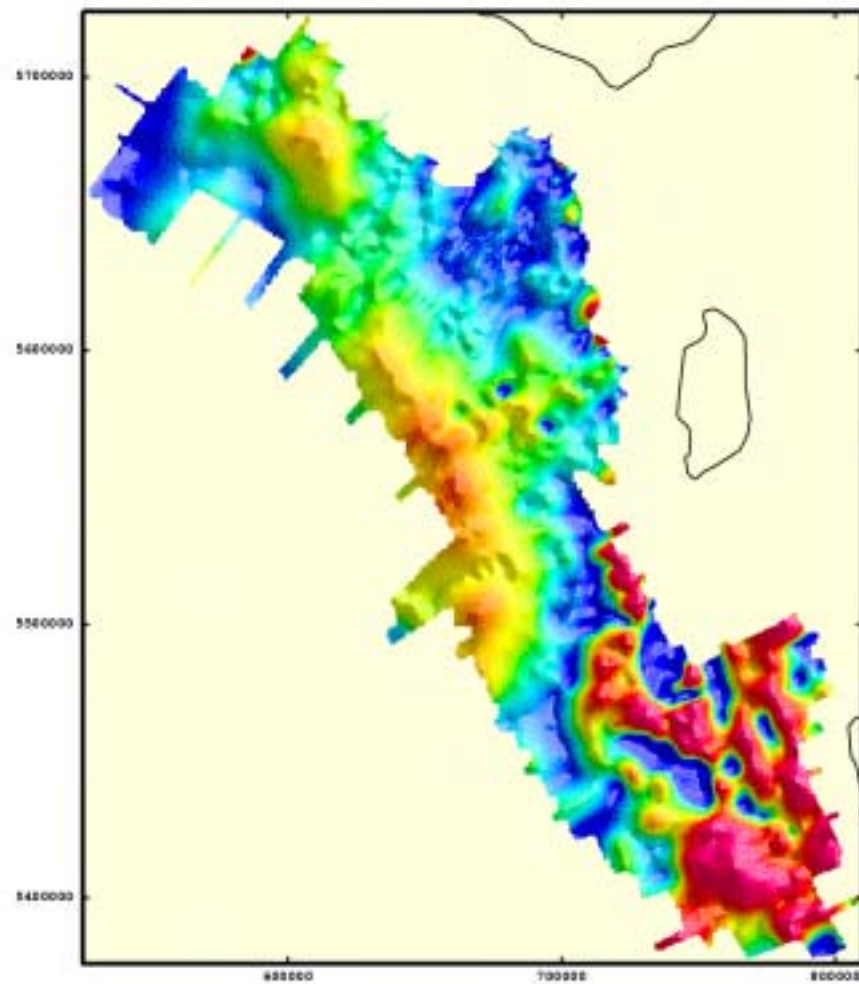
Illumination Azimuth: 0 Elevation: 45  
Vertical Exaggeration: 10000



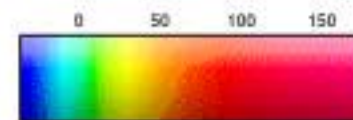
FUGRO-LCT INC.  
NON-EXCLUSIVE SURVEY  
OTWAY/SORELL BASIN - AUSTRALIA  
3-D BOUGUER GRAVITY  
GRID INTERVAL = 1500 METERS







Illumination Azimuth: 45 Elevation: 45  
Vertical Exaggeration: 10000



nT

FUGRO-LCT INC.

NON-EXCLUSIVE SURVEY

OTWAY/SORELL BASIN - AUSTRALIA

MAGNETIC ANOMALY

GRID INTERVAL = 1500 METERS





## **APPENDIX 2**

### **BRIEF LINE REPORT**

FUGRO-LCT INC.

SEISMIC AUSTRALIA  
OTWAY/SORELL BASIN  
OFFSHORE AUSTRALIA  
February 2002

LCT Brief Line Report

Date: Feb 20 15:46:22 2002

LCT Line#	Num Pts	Start Date YY/MM/DD	Time HHMMSS	Start Shot	End Date YY/MM/DD	Time HHMMSS	End Shot	Line Name
1	2189	2001 11	2 142910	100	2001 11	2 203350	2251	OR01-45
2	1977	2001 11	2 235130	100	2001 11	3 52050	2147	OR01-43
3	1749	2001 11	3 83300	100	2001 11	3 132420	1923	OR01-41
4	1603	2001 11	3 182420	98	2001 11	3 225120	1775	OR01-39
5	1930	2001 11	4 23140	98	2001 11	4 75310	2064	OR01-37
6	1620	2001 11	4 105720	98	2001 11	4 152710	1793	OR01-04
7	1553	2001 11	4 184450	100	2001 11	4 230330	1730	OR01-02
8	1182	2001 11	5 25210	99	2001 11	5 60900	1352	ORV01-06
9	1086	2001 11	5 85020	100	2001 11	5 115110	1264	ORV01-10
10	782	2001 11	5 144900	98	2001 11	5 165910	925	ORV01-08
11	1312	2001 11	5 213310	100	2001 11	6 11140	1317	ORV01-07
12	1727	2001 11	6 71620	98	2001 11	6 120400	1814	OR01-06
13	1896	2001 11	6 151120	98	2001 11	6 202710	2025	OR01-08
14	3066	2001 11	7 4000	100	2001 11	7 91050	2283	DS02-100
15	2655	2001 11	8 12840	99	2001 11	8 85100	1916	DS02-212
16	1836	2001 11	8 120450	98	2001 11	8 171040	1949	ORW01DS214
17	1024	2001 11	8 221630	1800	2001 11	9 10700	2845	ORW01DS214A
18	2741	2001 11	9 43050	100	2001 11	9 120730	1985	DS02-213
19	4094	2001 11	13 103650	98	2001 11	13 215900	4304	OR23DS223
20	2301	2001 11	14 21550	98	2001 11	14 83910	2459	OR01-17
21	2420	2001 11	14 114200	97	2001 11	14 182510	2602	OR01-11
22	2530	2001 11	14 215210	98	2001 11	15 45340	2696	OR01-13
23	2893	2001 11	15 91920	100	2001 11	15 172120	2225	DS02-103
24	3041	2001 11	17 44710	99	2001 11	17 131350	2208	DS02-101
25	2821	2001 11	21 152100	100	2001 11	21 231100	2076	DS02-102
26	1491	2001 11	22 35150	100	2001 11	22 80010	1113	DS02-200
27	1287	2001 11	22 104840	100	2001 11	22 142300	1023	DS02-201
28	1310	2001 11	22 173030	100	2001 11	22 210840	1005	DS02-202
29	1240	2001 11	23 2040	100	2001 11	23 34710	967	DS02-203
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31	967	2001 11	23 125950	100	2001 11	23 154050	772	DS02-205
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33	734	2001 11	23 234440	100	2001 11	24 14650	603	DS02-207
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39	711	2001 11	27 10750	100	2001 11	27 30610	797	OR01-W05
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42	1207	2001 11	27 163040	100	2001 11	27 195140	1317	ORV01-07A
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53	2523	2001 12	1 175740	100	2001 12	2 5800	2612	OR01-18
54	1229	2001 12	2 50330	511	2001 12	2 82810	1320	DS02-108A
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60	1981	2001	12	5	103920	98	2001	12	5	160920	1551	DS02-219
61	1957	2001	12	5	183620	100	2001	12	6	220	1439	DS02-220
62	2219	2001	12	6	24930	100	2001	12	6	85910	1660	DS02-222
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1044	1325	2001	6	2	195750	1727	2001	6	2	233830	2588	DS01-138B
1045	2844	2001	6	3	71830	100	2001	6	3	151220	1919	DS01-133A
1046	2395	2001	6	10	145250	99	2001	6	10	213150	1630	DS01-107
1047	2340	2001	6	11	15530	99	2001	6	11	82520	1704	DS01-109

## **APPENDIX 3**

### **SURVEY LINE DESCRIPTION REPORT**

FUGRO-LCT INC.

SEISMIC AUSTRALIA  
OTWAY/SORELL BASIN  
OFFSHORE AUSTRALIA  
February 2002

LCT Line Header Report

Date: Feb 20 15:49:07 2002

LCT line number: 1  
Client line name: OR01-45  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2189  
Start shot: 100 End shot: 2251  
Survey date: NOV 2, 2001  
Start time: 142910 End time: 203350  
Average line heading (degrees azimuth from north): 45.074268  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.178  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 0  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 2  
Client line name: OR01-43  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1977  
Start shot: 100 End shot: 2147  
Survey date: NOV 2, 2001  
Start time: 235130 End time: 52050  
Average line heading (degrees azimuth from north): 225.37752  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.172  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 3  
Client line name: OR01-41  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1749  
Start shot: 100 End shot: 1923  
Survey date: NOV 3, 2001

Start time: 83300 End time: 132420  
Average line heading (degrees azimuth from north): 42.949955  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.166  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 4  
Client line name: OR01-39  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1603  
Start shot: 98 End shot: 1775  
Survey date: NOV 3, 2001  
Start time: 182420 End time: 225120  
Average line heading (degrees azimuth from north): 221.92068  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.159  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 420.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 5  
Client line name: OR01-37  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1930  
Start shot: 98 End shot: 2064  
Survey date: NOV 4, 2001  
Start time: 23140 End time: 75310  
Average line heading (degrees azimuth from north): 42.070820  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.153  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000

Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 6  
Client line name: OR01-04  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1620  
Start shot: 98 End shot: 1793  
Survey date: NOV 4, 2001  
Start time: 105720 End time: 152710  
Average line heading (degrees azimuth from north): 312.89825  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.148  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 7  
Client line name: OR01-02  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1553  
Start shot: 100 End shot: 1730  
Survey date: NOV 4, 2001  
Start time: 184450 End time: 230330  
Average line heading (degrees azimuth from north): 126.12110  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.143  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 128  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 8  
Client line name: ORV01-06  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1182  
Start shot: 99 End shot: 1352  
Survey date: NOV 5, 2001  
Start time: 25210 End time: 60900  
Average line heading (degrees azimuth from north): 304.72696  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)

CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.138  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 2.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 9  
Client line name: ORV01-10  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1086  
Start shot: 100 End shot: 1264  
Survey date: NOV 5, 2001  
Start time: 85020 End time: 115110  
Average line heading (degrees azimuth from north): 121.82812  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.134  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 420.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 10  
Client line name: ORV01-08  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 782  
Start shot: 98 End shot: 925  
Survey date: NOV 5, 2001  
Start time: 144900 End time: 165910  
Average line heading (degrees azimuth from north): 303.92300  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.130  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 480.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 11  
Client line name: ORV01-07  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1312  
Start shot: 100 End shot: 1317  
Survey date: NOV 5, 2001  
Start time: 213310 End time: 11140  
Average line heading (degrees azimuth from north): 216.74324  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.125  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 12  
Client line name: OR01-06  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1727  
Start shot: 98 End shot: 1814  
Survey date: NOV 6, 2001  
Start time: 71620 End time: 120400  
Average line heading (degrees azimuth from north): 135.72885  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.118  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 720.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 13  
Client line name: OR01-08  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1896  
Start shot: 98 End shot: 2025  
Survey date: NOV 6, 2001  
Start time: 151120 End time: 202710  
Average line heading (degrees azimuth from north): 315.78128  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.112  
Gravity latitude correction formula: 1967 GRS

Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 14  
Client line name: DS02-100  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 3066  
Start shot: 100 End shot: 2283  
Survey date: NOV 7, 2001  
Start time: 4000 End time: 91050  
Average line heading (degrees azimuth from north): 305.45282  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.104  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 900.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 15  
Client line name: DS02-212  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2655  
Start shot: 99 End shot: 1916  
Survey date: NOV 8, 2001  
Start time: 12840 End time: 85100  
Average line heading (degrees azimuth from north): 216.62212  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.088  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 16  
Client line name: ORW01DS214  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1836  
Start shot: 98 End shot: 1949

Survey date: NOV 8, 2001  
Start time: 120450 End time: 171040  
Average line heading (degrees azimuth from north): 36.675346  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.082  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 420.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 17  
Client line name: ORW01DS214A  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1024  
Start shot: 1800 End shot: 2845  
Survey date: NOV 8, 2001  
Start time: 221630 End time: 10700  
Average line heading (degrees azimuth from north): 36.816044  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.075  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 18  
Client line name: DS02-213  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2741  
Start shot: 100 End shot: 1985  
Survey date: NOV 9, 2001  
Start time: 43050 End time: 120730  
Average line heading (degrees azimuth from north): 216.62343  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968481.069  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000

Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 19  
Client line name: OR23DS223  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 4094  
Start shot: 98 End shot: 4304  
Survey date: NOV 13, 2001  
Start time: 103650 End time: 215900  
Average line heading (degrees azimuth from north): 40.350136  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.998  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 20  
Client line name: OR01-17  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2301  
Start shot: 98 End shot: 2459  
Survey date: NOV 14, 2001  
Start time: 21550 End time: 83910  
Average line heading (degrees azimuth from north): 217.41934  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.989  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 21  
Client line name: OR01-11  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2420  
Start shot: 97 End shot: 2602  
Survey date: NOV 14, 2001  
Start time: 114200 End time: 182510  
Average line heading (degrees azimuth from north): 36.448391  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000

(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.982  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 480.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 22  
Client line name: OR01-13  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2530  
Start shot: 98 End shot: 2696  
Survey date: NOV 14, 2001  
Start time: 215210 End time: 45340  
Average line heading (degrees azimuth from north): 216.86899  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.976  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 480.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 23  
Client line name: DS02-103  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2893  
Start shot: 100 End shot: 2225  
Survey date: NOV 15, 2001  
Start time: 91920 End time: 172120  
Average line heading (degrees azimuth from north): 304.25598  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.968  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 234.99998  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null



LCT line number: 26  
Client line name: DS02-200  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1491  
Start shot: 100 End shot: 1113  
Survey date: NOV 22, 2001  
Start time: 35150 End time: 80010  
Average line heading (degrees azimuth from north):  
35.915527  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos. - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.857

LCT line number: 29  
Client line name: DS02-203  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1240

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LCT line number: 31
Client line name: DS02-205
Client line number: 0
Data base structure: TIME, Increment: 10 seconds
Number of points on line: 967
Start shot: 100 End shot: 772
Survey date: NOV 23, 2001
Start time: 125950 End time: 154050
Average line heading (degrees azimuth from north):
216.94228
Navigation antenna to gravity meter distance: 33.520000
        (positive if antenna is astern of the gravity meter)
Vessel stern to navigation antenna distance: 33.520000
        (positive if stern is astern of the antenna)
CDP offset (Antenna pos - CDP pos.): Null
Gravity meter name: LRS-65
Magnetometer name: Elsec
Fathometer name: EA500
Recomputed meter gravity type: Null
Gravity base level: 968480.836
Gravity latitude correction formula: 1967 GRS
Gravity final filter length (sec): 300.00000
Gravity preliminary filter length (sec): 120.000000
Eotvos correction type: Time Varying Decorelation
Eotvos correction window width: 64
Eotvos correction step down: 4
Eotvos correction alignment width: 4

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LCT line number: 34  
Client line name: DS02-2008  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 781  
Start shot: 100 End shot: 600  
Survey date: NOV 24, 2001  
Start time: 124850 End time: 145850  
Average line heading (degrees azimuth from north): Null  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000

LCT line number: 36  
Client line name: DS02-209A  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 823  
Start shot: 100 End shot: 643  
Survey date: NOV 26, 2001  
Start time: 41740 End time: 63440  
Average line heading (degrees azimuth from north):  
35.875866  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos. - CDP pos.): Null  
Gravity meter name: LRS-5  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.792  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 39  
Client line name: OR01-W05  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 711  
Start shot: 100 End shot: 797  
Survey date: NOV 27, 2001  
Start time: 10750 End time: 30610  
Average line heading (degrees azimuth from north):  
218.25966  
Navigation antenna to gravity meter distance: 33.52000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.778

Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 40  
Client line name: OR01-03  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1150  
Start shot: 100 End shot: 1248  
Survey date: NOV 27, 2001  
Start time: 65520 End time: 100650  
Average line heading (degrees azimuth from north): 35.523819  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.773  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 41  
Client line name: ORV01-03  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 783  
Start shot: 100 End shot: 903  
Survey date: NOV 27, 2001  
Start time: 111600 End time: 132620  
Average line heading (degrees azimuth from north): 36.211586  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.771  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 420.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 42  
Client line name: ORV01-07A  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1207

Start shot: 100 End shot: 1317  
Survey date: NOV 27, 2001  
Start time: 163040 End time: 195140  
Average line heading (degrees azimuth from north): 216.69540  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.768  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 43  
Client line name: ORV01-05  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 976  
Start shot: 98 End shot: 1076  
Survey date: NOV 27, 2001  
Start time: 233520 End time: 21750  
Average line heading (degrees azimuth from north): 36.372776  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.763  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 420.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 44  
Client line name: OR01-09  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2329  
Start shot: 98 End shot: 2469  
Survey date: NOV 28, 2001  
Start time: 52020 End time: 114820  
Average line heading (degrees azimuth from north): 216.25125  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.758  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4

Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 45  
Client line name: OR01-15  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1870  
Start shot: 97 End shot: 1990  
Survey date: NOV 28, 2001  
Start time: 144230 End time: 195400  
Average line heading (degrees azimuth from north): 36.949505  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.751  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 46  
Client line name: OR01-07  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 743  
Start shot: 99 End shot: 851  
Survey date: NOV 29, 2001  
Start time: 2430 End time: 22810  
Average line heading (degrees azimuth from north): 216.64075  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.746  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 5.0000000  
Eotvos correction phase parameter: 30.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 47  
Client line name: OR01-05  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 734  
Start shot: 99 End shot: 865  
Survey date: NOV 29, 2001  
Start time: 54600 End time: 74810  
Average line heading (degrees azimuth from north): 36.327412  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)

LCT line number: 49  
Client line name: OR01-35  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2020  
Start shot: 139 End shot: 2191  
Survey date: NOV 30, 2001  
Start time: 2200 End time: 55830  
Average line heading (degrees azimuth from north):  
222.69890  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.729  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

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LCT line number:      52
Client line name: OR01-16A
Client line number:    0
Data base structure: TIME, Increment:      10 seconds
Number of points on line:      1343
Start shot:      1453 End shot:      2848
Survey date:      DEC 1, 2001
Start time:      53330 End time:      91710
Average line heading (degrees azimuth from north):
137.61206
Navigation antenna to gravity meter distance: 33.520000
        (positive if antenna is astern of the gravity meter)
Vessel stern to navigation antenna distance: 33.520000
        (positive if stern is astern of the antenna)
CDP offset (Antenna pos - CDP pos.): Null
Gravity meter name: LRS-65
Magnetometer name: Elsec
Fathometer name: EA500
Recomputed meter gravity type: Null

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LCT line number: 55  
Client line name: DS02-107  
Client line number: 0  
Data base structure: TIME. Increment: 10 seconds

LCT line number: 57  
Client line name: DS02-218  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2101  
Start shot: 100 End shot: 1476  
Survey date: DEC 4, 2001  
Start time: 52720 End time: 111720  
Average line heading (degrees azimuth from north):  
216.97115  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos. - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.659  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 420.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4

LCT line number: 60  
Client line name: DS02-219  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1981  
Start shot: 98 End shot: 1551  
Survey date: DEC 5, 2001  
Start time: 103920 End time: 160920  
Average line heading (degrees azimuth from north):  
37.207664  
Navigation antenna to gravity meter distance: 33.520000

LCT line number: 62  
Client line name: DS02-222  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2219  
Start shot: 100 End shot: 1660  
Survey date: DEC 6, 2001  
Start time: 24930 End time: 85910  
Average line heading (degrees azimuth from north):  
40.918617  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.628  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000

Transducer depth (draft correction): Null

LCT line number: 63  
Client line name: DS02-221  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2060  
Start shot: 99 End shot: 1569  
Survey date: DEC 6, 2001  
Start time: 111220 End time: 165530  
Average line heading (degrees azimuth from north): 220.39862  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.622  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 64  
Client line name: OR25DS224  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 3987  
Start shot: 100 End shot: 4236  
Survey date: DEC 6, 2001  
Start time: 200710 End time: 71130  
Average line heading (degrees azimuth from north): 40.618473  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.614  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 420.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 65  
Client line name: OR01-21  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1443  
Start shot: 99 End shot: 1567  
Survey date: DEC 7, 2001  
Start time: 94340 End time: 134400  
Average line heading (degrees azimuth from north): 218.27831  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500

Recomputed meter gravity type: Null  
Gravity base level: 968480.607  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 66  
Client line name: OR01-19A  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1350  
Start shot: 98 End shot: 1490  
Survey date: DEC 7, 2001  
Start time: 170550 End time: 205040  
Average line heading (degrees azimuth from north): 41.623016  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.603  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 67  
Client line name: OR01-19B  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1114  
Start shot: 100 End shot: 1248  
Survey date: DEC 8, 2001  
Start time: 2830 End time: 33400  
Average line heading (degrees azimuth from north): 219.18613  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.598  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 68  
Client line name: DS02-225  
Client line number: 0

Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1881  
Start shot: 100 End shot: 1390  
Survey date: DEC 8, 2001  
Start time: 135810 End time: 191130  
Average line heading (degrees azimuth from north): 223.16837  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.588  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 69  
Client line name: OR29DS226  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 3692  
Start shot: 98 End shot: 3931  
Survey date: DEC 9, 2001  
Start time: 1220 End time: 102730  
Average line heading (degrees azimuth from north): 41.965633  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.579  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 70  
Client line name: OR01-27  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 717  
Start shot: 99 End shot: 799  
Survey date: DEC 9, 2001  
Start time: 133320 End time: 153240  
Average line heading (degrees azimuth from north): 219.21452  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.572  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 240.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64

Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 71  
Client line name: DS02-107A  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2013  
Start shot: 600 End shot: 1955  
Survey date: DEC 11, 2001  
Start time: 150040 End time: 203600  
Average line heading (degrees azimuth from north): 312.37509  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.538  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 1200.0000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 72  
Client line name: OR14DS105  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 4955  
Start shot: 97 End shot: 5192  
Survey date: DEC 11, 2001  
Start time: 231550 End time: 130130  
Average line heading (degrees azimuth from north): 132.74913  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.529  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 900.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 73  
Client line name: OR01-12  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1750  
Start shot: 98 End shot: 1865  
Survey date: DEC 12, 2001  
Start time: 161140 End time: 210310  
Average line heading (degrees azimuth from north): 313.44867

Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.521  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 74  
Client line name: OR01-12A  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 3008  
Start shot: 1719 End shot: 4842  
Survey date: DEC 13, 2001  
Start time: 33730 End time: 115840  
Average line heading (degrees azimuth from north): 313.81418  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.512  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 720.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 75  
Client line name: DS02-110  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2989  
Start shot: 100 End shot: 2140  
Survey date: DEC 13, 2001  
Start time: 164650 End time: 10450  
Average line heading (degrees azimuth from north): 140.16806  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.503  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 900.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000

Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 76  
Client line name: OR01-35A  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2045  
Start shot: 100 End shot: 2190  
Survey date: DEC 14, 2001  
Start time: 25350 End time: 83430  
Average line heading (degrees azimuth from north): 42.613667  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.497  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 77  
Client line name: OR33DS228  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 3601  
Start shot: 99 End shot: 3656  
Survey date: DEC 14, 2001  
Start time: 110530 End time: 210530  
Average line heading (degrees azimuth from north): 223.24565  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.489  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 420.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 78  
Client line name: OR31DS227  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 3539  
Start shot: 99 End shot: 3656  
Survey date: DEC 15, 2001  
Start time: 2040 End time: 101020  
Average line heading (degrees azimuth from north): 42.820503  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec

Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.480  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 480.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 79  
Client line name: OR01-27A  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1703  
Start shot: 652 End shot: 2309  
Survey date: DEC 15, 2001  
Start time: 124710 End time: 173050  
Average line heading (degrees azimuth from north): 219.08829  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.474  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 80  
Client line name: DS02-110A  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1903  
Start shot: 2041 End shot: 3307  
Survey date: DEC 15, 2001  
Start time: 201240 End time: 12940  
Average line heading (degrees azimuth from north): 148.81013  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.469  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 900.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 81  
Client line name: OR01-47

Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1470  
Start shot: 98 End shot: 1556  
Survey date: DEC 16, 2001  
Start time: 43310 End time: 83800  
Average line heading (degrees azimuth from north): 45.895706  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.463  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 82  
Client line name: DS02-233  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1433  
Start shot: 100 End shot: 1042  
Survey date: DEC 16, 2001  
Start time: 135750 End time: 175630  
Average line heading (degrees azimuth from north): 225.83415  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.457  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 83  
Client line name: DS02-232  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1485  
Start shot: 100 End shot: 1072  
Survey date: DEC 16, 2001  
Start time: 213400 End time: 14120  
Average line heading (degrees azimuth from north): 45.603493  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.451  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation

Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 84  
Client line name: DS02-231  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1698  
Start shot: 100 End shot: 1200  
Survey date: DEC 17, 2001  
Start time: 45010 End time: 93300  
Average line heading (degrees azimuth from north): 224.45187  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.446  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 85  
Client line name: DS02-230  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1830  
Start shot: 100 End shot: 1309  
Survey date: DEC 17, 2001  
Start time: 120940 End time: 171430  
Average line heading (degrees azimuth from north): 43.580814  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968480.441  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 420.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 86  
Client line name: DS02-229  
Client line number: 0  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1623  
Start shot: 100 End shot: 1179  
Survey date: DEC 17, 2001  
Start time: 205730 End time: 12750



Average line heading (degrees azimuth from north):  
222.78546  
Navigation antenna to gravity meter distance: 33.520000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: Elsec  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 420.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 187.79999  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): Null

LCT line number: 1001  
Client line name: DS01-208X  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1482  
Start shot: 99 End shot: 948  
Survey date: APR 29, 2001  
Start time: 233650 End time: 34340  
Average line heading (degrees azimuth from north):  
327.32922  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 900.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1002  
Client line name: [DS01-208XA]  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 7929  
Start shot: 849 End shot: 5947  
Survey date: MAY 1, 2001  
Start time: 101740 End time: 81900  
Average line heading (degrees azimuth from north):  
328.00992  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 900.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000

(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1003  
Client line name: [DS01-208XA]  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2469  
Start shot: 5947 End shot: 7621  
Survey date: MAY 2, 2001  
Start time: 81900 End time: 151020  
Average line heading (degrees azimuth from north):  
326.46033  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1004  
Client line name: DS01-206X  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 7929  
Start shot: 686 End shot: 6089  
Survey date: MAY 2, 2001  
Start time: 183730 End time: 163850  
Average line heading (degrees azimuth from north):  
148.25677  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1005  
Client line name: DS01-206X  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 3194  
Start shot: 6089 End shot: 8323  
Survey date: MAY 3, 2001  
Start time: 163850 End time: 13100  
Average line heading (degrees azimuth from north):  
147.54567  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null

Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 0  
Eotvos correction maximum gain factor: 20.000000  
Eotvos correction phase parameter: 3.0000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1006  
Client line name: DS01-146  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1533  
Start shot: 99 End shot: 1099  
Survey date: MAY 4, 2001  
Start time: 70750 End time: 112310  
Average line heading (degrees azimuth from north):  
58.006435  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1007  
Client line name: DS01-144X  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1497  
Start shot: 99 End shot: 1080  
Survey date: MAY 4, 2001  
Start time: 140950 End time: 181910  
Average line heading (degrees azimuth from north):  
242.55911  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 300.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1010  
Client line name: DS01-141X  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 944  
Start shot: 99 End shot: 679  
Survey date: MAY 5, 2001  
Start time: 201010 End time: 224720  
Average line heading (degrees azimuth from north):  
240.91095  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos. - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 480.00000

LCT line number: 1013  
Client line name: DS01-138  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 4539  
Start shot: 101 End shot: 3132  
Survey date: MAY 7, 2001

LCT line number: 1015  
Client line name: DS01-136A  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 4874  
Start shot: 99 End shot: 3143  
Survey date: MAY 8, 2001  
Start time: 230650 End time: 123900  
Average line heading (degrees azimuth from north): 238.09264  
Navigation antenna to gravity meter distance: 13.68000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000

Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1016  
Client line name: DS01-201  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 3489  
Start shot: 101 End shot: 2363  
Survey date: MAY 10, 2001  
Start time: 90930 End time: 185050  
Average line heading (degrees azimuth from north): 148.38933  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 900.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1017  
Client line name: DS01-141XA  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2683  
Start shot: 581 End shot: 2317  
Survey date: MAY 11, 2001  
Start time: 3900 End time: 80600  
Average line heading (degrees azimuth from north): 241.40460  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1018  
Client line name: DS01-144XB  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1118  
Start shot: 1477 End shot: 2241  
Survey date: MAY 11, 2001  
Start time: 173100 End time: 203710  
Average line heading (degrees azimuth from north): 242.86414  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)

CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1019  
Client line name: DS01-203  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 5858  
Start shot: 99 End shot: 4035  
Survey date: MAY 12, 2001  
Start time: 75920 End time: 1530  
Average line heading (degrees azimuth from north): 327.51218  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1020  
Client line name: DS01-203A  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1386  
Start shot: 3936 End shot: 4882  
Survey date: MAY 13, 2001  
Start time: 53420 End time: 92510  
Average line heading (degrees azimuth from north): 327.94531  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 600.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1021  
Client line name: DS01-128  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 3182  
Start shot: 99 End shot: 2199  
Survey date: MAY 13, 2001  
Start time: 121550 End time: 210600  
Average line heading (degrees azimuth from north): 233.39175  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 480.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1022  
Client line name: DS01-130  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2956  
Start shot: 99 End shot: 2035  
Survey date: MAY 14, 2001  
Start time: 20830 End time: 102100  
Average line heading (degrees azimuth from north): 58.655571  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 480.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1023  
Client line name: DS01-131  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2811  
Start shot: 99 End shot: 1981  
Survey date: MAY 14, 2001  
Start time: 144440 End time: 223300  
Average line heading (degrees azimuth from north): 238.51161  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS

LCT line number: 1026  
 Client line name: DS01-123  
 Client line number: 999999  
 Data base structure: TIME, Increment: 10 seconds  
 Number of points on line: 2559  
 Start shot: 99 End shot: 1581

LCT line number: 1028  
Client line name: DS01-117  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2918  
Start shot: 99 End shot: 1929  
Survey date: MAY 20, 2001  
Start time: 60140 End time: 140750  
Average line heading (degrees azimuth from north): 218.55013  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos. - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 1200.0000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000

LCT line number: 1031  
Client line name: DS01-110  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2761  
Start shot: 101 End shot: 1961  
Survey date: MAY 21, 2001  
Start time: 231210 End time: 65210  
Average line heading (degrees azimuth from north):  
36.220257  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000

LCT line number: 1033  
Client line name: DS01-206XA  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 922  
Start shot: 99 End shot: 785  
Survey date: MAY 23, 2001  
Start time: 40330 End time: 63700  
Average line heading (degrees azimuth from north):  
148.82956  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos. - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 480.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 268.50000  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1036  
Client line name: DS01-204X  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 7929  
Start shot: 5415 End shot: 10966  
Survey date: MAY 25, 2001  
Start time: 830 End time: 220950  
Average line heading (degrees azimuth from north):  
147.99246  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: -33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293

LCT line number: 1039  
Client line name: DS01-205XA  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 6076

LCT line number: 1041  
Client line name: DS01-134  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2755  
Start shot: 99 End shot: 1927  
Survey date: JUN 1, 2001  
Start time: 122810 End time: 200710  
Average line heading (degrees azimuth from north):  
238.40329  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 900.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4

LCT line number: 1044  
Client line name: DS01-138B  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 1325  
Start shot: 1727 End shot: 2588  
Survey date: JUN 2, 2001  
Start time: 195750 End time: 233830  
Average line heading (degrees azimuth from north):  
238.72774  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)

LCT line number: 1046  
Client line name: DS01-107  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2395  
Start shot: 99 End shot: 1630  
Survey date: JUN 10, 2001  
Start time: 145250 End time: 213150  
Average line heading (degrees azimuth from north): 36.285469  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 720.00000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 167.96001  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

LCT line number: 1047  
Client line name: DS01-109  
Client line number: 999999  
Data base structure: TIME, Increment: 10 seconds  
Number of points on line: 2340  
Start shot: 99 End shot: 1704  
Survey date: JUN 11, 2001  
Start time: 15530 End time: 82520  
Average line heading (degrees azimuth from north):  
216.28993  
Navigation antenna to gravity meter distance: 13.680000  
(positive if antenna is astern of the gravity meter)  
Vessel stern to navigation antenna distance: 33.520000  
(positive if stern is astern of the antenna)  
CDP offset (Antenna pos - CDP pos.): Null  
Gravity meter name: LRS-65  
Magnetometer name: ELSEC  
Fathometer name: EA500  
Recomputed meter gravity type: Null  
Gravity base level: 968484.293  
Gravity latitude correction formula: 1967 GRS  
Gravity final filter length (sec): 1200.0000  
Gravity preliminary filter length (sec): 120.00000  
Eotvos correction type: Time Varying Decorrelation  
Eotvos correction window width: 64  
Eotvos correction step down: 4  
Eotvos correction alignment width: 4  
Eotvos correction maximum gain factor: 3.0000000  
Eotvos correction phase parameter: 20.000000  
Magnetic cable to stern length: 167.96001  
(Same units as projected distance)  
Geomagnetic Reference Field: IGRF2000  
Magnetic filter length (sec): 60.000000  
Transducer depth (draft correction): 4.9800000

## **APPENDIX 4**

### **SURVEY DATA PRODUCTION SUMMARY**



FUGRO-LCT INC.

SEISMIC AUSTRALIA  
OTWAY/SORELL BASIN  
OFFSHORE AUSTRALIA  
February 2002

Survey Kilometer Report

Date: Feb 20 15:12:21 2002

Channels Selected:

WTRDEPTH: WATER DEPTH  
CORRGRAV: CORRECTED CALIBRATED METER GRAVITY  
RAWMAG : RAW TOTAL MAGNETIC INTENSITY

LCT	Line	WTRDEPTH			CORRGRAV			RAWMAG		
Line#	Name	Minimum	Maximum	Kilometer	Minimum	Maximum	Kilometer	Minimum	Maximum	Kilometer
1	OR01-45	97.80	991.40	53.75	161.08	208.69	53.76	61305.73	61568.45	53.76
2	OR01-43	90.23	1298.29	51.16	193.07	248.03	51.18	61333.08	61567.34	51.18
3	OR01-41	71.60	874.94	45.55	145.37	198.07	45.56	61229.84	61905.92	45.56
4	OR01-39	101.80	1000.82	41.87	181.18	229.36	41.88	61296.93	61524.14	41.88
5	OR01-37	101.75	1243.10	49.09	141.38	185.98	49.10	61310.73	61495.02	49.10
6	OR01-04	87.10	107.20	42.31	130.59	152.29	42.32	61113.39	61221.34	42.32
7	OR01-02	83.16	102.90	40.72	79.27	107.01	40.74	61096.37	61245.88	40.74
8	ORV01-06	76.30	93.96	31.32	120.67	131.91	31.33	61058.96	61073.39	31.33
9	ORV01-10	35.49	85.32	29.09	63.29	79.89	29.10	60838.04	61712.36	29.10
10	ORV01-08	64.20	98.63	20.61	118.23	132.41	20.63	61006.04	61334.41	20.63
11	ORV01-07	77.20	99.30	30.44	103.16	145.94	30.45	61044.12	61168.81	30.45
12	OR01-06	91.80	115.33	42.89	101.82	128.09	42.91	61245.65	61324.41	42.91
13	OR01-08	95.80	122.90	48.12	150.98	173.20	48.14	61085.09	61240.47	48.14
14	DS02-100	109.60	185.90	81.84	116.06	164.13	81.85	61023.89	61292.77	81.85
15	DS02-212	104.89	2420.98	68.09	140.32	228.64	68.10	61105.24	61423.46	68.10
16	ORW01DS214	1131.48	2080.45	46.18	128.92	196.35	46.19	61242.35	61438.53	46.19
17	ORW01DS214A	100.09	1255.18	26.11	105.65	134.90	26.12	61099.95	61266.01	26.12
18	DS02-213	102.80	2177.78	70.68	139.37	231.17	70.69	61123.35	61433.15	70.69
19	OR23DS223	93.60	2088.48	105.08	91.79	212.72	105.10	61126.62	61578.50	105.10
20	OR01-17	44.43	857.82	58.96	115.63	190.30	58.97	60887.38	61309.29	58.97
21	OR01-11	77.09	891.31	62.55	71.76	148.77	62.56	60937.54	61291.31	62.56
22	OR01-13	77.13	1145.71	64.90	111.23	188.43	64.91	60779.05	61312.87	64.91
23	DS02-103	245.73	1333.09	79.65	137.95	171.79	79.67	61107.24	61225.61	79.67
24	DS02-101	153.09	921.19	79.03	77.77	120.76	79.04	61021.61	61187.02	79.04
25	DS02-102	205.19	1169.16	74.07	131.91	165.44	74.08	61079.69	61210.80	74.08
26	DS02-200	61.00	1252.84	37.98	48.30	102.39	37.99	60986.36	61106.80	37.99
27	DS02-201	74.80	1401.11	34.60	96.98	147.45	34.61	61022.94	61165.97	34.61
28	DS02-202	75.13	1322.63	33.94	59.92	107.88	33.95	61027.73	61164.61	33.95
29	DS02-203	86.60	1445.39	32.49	106.71	149.63	32.50	61016.92	61175.12	32.50
30	DS02-204	88.10	1388.35	28.68	71.69	107.70	28.69	61058.41	61212.23	28.69
31	DS02-205	144.64	1463.19	25.17	124.41	149.97	25.18	61093.42	61231.83	25.18
32	DS02-206	131.67	1280.40	18.60	94.89	113.26	18.61	61122.48	61231.47	18.61
33	DS02-207	139.18	1399.63	18.83	136.35	154.97	18.84	61115.59	61217.61	18.84
34	DS02-208	112.19	1245.65	18.75	101.15	119.58	18.77	null	null	0.00
35	DS02-210	122.08	1184.65	18.16	139.78	159.26	18.17	61144.23	61235.26	18.17
36	DS02-209A	104.82	1166.26	20.37	100.70	119.53	20.38	61130.96	61210.02	20.38

LCT	Line	WTRDEPTH			CORRGRAV			RAWMAG		
Line#	Name	Minimum	Maximum	Kilometer	Minimum	Maximum	Kilometer	Minimum	Maximum	Kilometer

37	DS02-211	107.46	1928.39	40.94	139.87	191.68	40.95	61151.43	61329.27	40.95
38	OR01-W03	107.89	1221.76	21.41	115.59	138.05	21.42	61157.70	61181.90	4.19
39	OR01-W05	157.72	1240.76	17.41	161.00	176.29	17.42	61178.82	61263.97	17.42
40	OR01-03	95.32	988.33	28.69	108.05	145.36	28.70	61152.93	61294.07	28.70
41	ORV01-03	73.80	85.78	20.05	68.67	90.68	20.07	61029.97	61117.29	20.07
42	ORV01-07A	77.50	99.61	30.41	106.02	145.15	30.42	61049.75	61178.44	30.42
43	ORV01-05	73.24	91.87	24.39	69.05	97.10	24.40	61008.68	61133.59	24.40
44	OR01-09	75.80	1081.55	59.22	105.08	182.46	59.23	61024.55	61291.57	59.23
45	OR01-15	87.03	806.67	47.23	85.10	149.98	47.24	61102.81	61308.47	47.24
46	OR01-07	108.23	1132.46	18.77	159.98	180.11	18.78	61188.93	61259.16	18.78
47	OR01-05	103.14	761.08	19.11	121.15	143.15	19.12	61195.25	61270.64	19.12
48	OR01-10	102.70	128.40	64.40	123.78	147.51	64.42	61198.75	61317.02	64.42
49	OR01-35	103.41	1415.90	51.30	170.97	224.48	51.31	61269.08	61509.28	51.31
50	DS02-108	667.77	1423.36	19.06	211.36	229.79	19.08	61310.45	61515.95	19.08
51	OR01-16	108.40	1179.80	37.47	165.13	191.75	37.48	61382.28	61475.37	37.48
52	OR01-16A	99.80	119.80	34.85	185.68	221.87	34.87	61454.22	61557.39	34.87
53	OR01-18	106.68	898.56	62.81	214.63	288.12	62.82	61438.64	61588.13	62.82
54	DS02-108A	1106.31	1423.57	30.28	194.48	218.84	30.29	61368.50	61442.71	30.29
55	DS02-107	960.51	1306.24	22.47	193.24	207.96	22.48	61340.44	61377.73	22.48
56	DS02-215	407.22	2405.59	52.50	133.12	200.49	52.52	61206.92	61438.86	48.54
57	DS02-218	764.37	2215.54	51.60	175.43	249.98	51.62	61314.50	61512.22	44.46
58	DS02-216	132.25	2311.82	57.54	129.92	200.19	57.55	61214.34	61463.18	57.55
59	OR01DS217	119.14	2068.66	63.53	164.71	244.43	63.54	61203.78	61500.92	63.54
60	DS02-219	430.98	2054.00	54.40	140.14	208.69	54.41	61257.05	61522.55	54.41
61	DS02-220	917.64	2326.33	50.19	181.17	252.09	50.21	61308.14	61541.66	50.21
62	DS02-222	117.24	2029.42	58.48	140.30	209.77	58.50	61296.91	61553.03	58.50
63	DS02-221	458.78	2387.49	55.09	186.36	255.65	55.10	61300.05	61532.95	55.10
64	OR25DS224	94.30	2186.57	103.40	100.17	215.02	103.41	61125.34	61590.89	103.41
65	OR01-21	95.30	463.63	36.66	137.03	191.19	36.67	61166.11	61314.67	36.67
66	OR01-19A	83.87	111.81	34.78	75.98	118.71	34.79	60978.00	61207.64	34.79
67	OR01-19B	99.90	382.66	28.69	142.41	190.64	28.70	61172.05	61278.68	28.70
68	DS02-225	1048.62	2552.08	48.37	202.73	263.18	48.38	61382.79	61613.16	48.38
69	OR29DS226	106.70	2300.19	95.76	102.74	218.71	95.78	61171.33	61619.85	95.78
70	OR01-27	99.60	110.71	17.48	137.90	159.14	17.49	61152.56	61250.48	17.49
71	DS02-107A	1134.28	1729.27	50.74	173.54	199.99	50.75	61266.88	61347.86	50.75
72	OR14DS105	99.34	1353.35	127.31	120.85	199.95	127.32	61226.48	61444.42	127.32
73	OR01-12	98.80	128.61	44.14	183.64	224.55	44.15	61330.98	61401.79	44.15
74	OR01-12A	117.21	786.12	78.06	158.09	190.92	78.07	61194.56	61311.35	78.07
75	DS02-110	1408.55	2153.68	76.48	153.18	196.03	76.49	61316.78	61508.19	76.49
76	OR01-35A	101.20	1223.17	52.25	130.97	181.79	52.26	61267.23	61430.65	52.26
77	OR33DS228	107.61	2537.36	88.92	154.90	264.22	88.93	61236.85	61649.85	88.93
78	OR31DS227	106.39	2235.21	88.89	106.55	221.26	88.90	61222.39	61617.95	88.90
79	OR01-27A	106.03	1348.38	41.39	152.40	206.04	41.40	61235.99	61407.36	41.40
80	DS02-110A	1230.22	1686.41	47.40	189.68	232.97	47.42	61511.21	61598.11	47.42
81	OR01-47	102.60	779.43	36.40	186.64	216.99	36.42	61420.83	61562.22	36.42
82	DS02-233	999.42	2334.33	35.33	245.97	282.83	35.34	61553.55	61729.40	35.34
83	DS02-232	764.67	2231.36	36.44	198.76	236.52	36.45	61509.62	61707.22	36.45
84	DS02-231	862.31	2426.90	41.25	233.00	274.51	41.26	61505.75	61730.79	41.26
85	DS02-230	198.97	2319.59	45.34	185.02	227.82	45.35	61473.97	61700.31	45.35
86	DS02-229	1246.82	2289.53	40.45	222.87	266.00	40.46	61524.61	61673.27	40.46
1001	DS01-208X	2243.00	2631.00	31.78	374.62	405.36	31.78	62051.66	62252.68	31.78
1002	[DS01-208XA]	1682.00	2615.99	191.16	249.39	375.53	191.16	61622.96	62075.09	191.16
1003	[DS01-208XA]	1876.20	2498.98	62.60	217.83	251.87	62.78	61412.04	61617.57	60.97
1004	DS01-206X	1224.29	2231.00	202.59	168.86	304.19	202.59	61383.32	61968.94	202.59
1005	DS01-206X	1484.00	2238.93	83.64	303.01	368.29	83.82	61927.68	62257.69	81.91

LCT	Line	WTRDEPTH			CORRGRAV			RAWMAG		
Line#	Name	Minimum	Maximum	Kilometer	Minimum	Maximum	Kilometer	Minimum	Maximum	Kilometer
1006	DS01-146	90.53	1288.20	36.93	304.72	363.40	37.49	62000.31	62305.25	37.49
1007	DS01-144X	102.00	1690.00	37.12	355.07	384.08	37.12	62062.80	62726.40	37.12
1008	DS01-144XA	1424.11	2596.87	23.92	378.76	411.26	23.92	62148.39	62239.49	23.92
1009	DS01-142X	84.13	2746.00	76.61	297.61	353.57	76.72	61938.45	62872.50	76.72

1010	DS01-141X	84.00	102.65	21.70	324.78	355.71	21.70	61893.46	62229.27	21.70
1011	DS01-140	39.93	2892.33	91.51	312.16	395.50	91.58	61755.08	62074.78	91.58
1012	DS01-139	60.00	2958.00	107.87	246.40	357.94	107.95	61746.21	62093.30	107.95
1013	DS01-138	50.71	2895.00	117.43	282.99	407.97	117.58	61641.77	62040.67	117.58
1014	DS01-137	47.38	2804.20	114.08	231.67	346.00	114.15	61580.51	62115.04	114.15
1015	DS01-136A	56.13	2703.00	114.12	279.04	391.07	114.20	61666.66	62209.66	114.20
1016	DS01-201	80.00	111.00	84.81	251.75	324.58	84.89	61761.74	62476.59	84.89
1017	DS01-141XA	89.00	2973.00	64.99	340.13	399.70	65.11	61848.14	62131.88	65.11
1018	DS01-144XB	2181.44	3067.09	28.61	390.09	436.30	28.62	62157.82	62333.89	28.62
1019	DS01-203	84.00	404.00	147.62	292.03	394.85	147.62	61620.77	62285.29	147.62
1020	DS01-203A	90.07	140.00	35.28	275.99	298.96	35.43	61581.89	62360.70	35.43
1021	DS01-128	220.00	3580.40	78.47	267.76	350.87	78.67	61588.07	61867.22	78.67
1022	DS01-130	86.00	2660.47	72.46	236.09	280.43	72.54	61596.24	61850.74	72.54
1023	DS01-131	93.00	2760.00	70.36	283.07	340.48	70.51	61595.84	62578.45	70.51
1024	DS01-132	86.29	2598.50	69.09	244.51	303.85	69.22	61677.07	62114.41	69.22
1025	DS01-126	99.00	3350.00	114.32	165.55	291.84	114.42	61361.24	61845.52	114.42
1026	DS01-123	1182.00	2779.00	55.37	214.89	281.90	55.53	61365.70	61683.82	55.53
1027	DS01-120	99.00	2378.60	98.28	102.61	242.55	98.38	61187.29	61596.88	98.38
1028	DS01-117	1167.00	3340.00	68.36	167.26	275.13	68.57	61270.44	61528.96	68.57
1029	DS01-114	97.00	2590.19	87.32	88.73	212.54	87.39	61105.73	61449.23	87.39
1030	DS01-112	1051.77	3075.00	72.34	133.92	244.34	72.49	61202.71	61492.20	72.49
1031	DS01-110	540.66	2988.00	69.61	95.19	196.65	69.73	61133.40	61410.60	69.73
1032	DS01-108	855.00	2917.00	57.25	131.08	223.05	57.48	61144.41	61359.52	57.48
1033	DS01-206XA	1520.00	2222.00	25.65	154.60	172.45	25.65	61299.13	61400.04	25.65
1034	DS01-207	1497.00	2544.00	110.92	180.98	213.29	111.00	61223.05	61395.25	111.00
1035	DS01-204X	1185.00	2076.69	199.31	98.86	201.71	199.31	61148.39	61542.64	199.31
1036	DS01-204X	100.00	1312.71	208.26	200.40	368.28	208.26	61541.40	62297.33	208.26
1037	DS01-204X	156.00	242.80	11.88	362.97	371.98	11.91	62034.36	62174.09	11.91
1038	DS01-205X	920.61	1602.00	48.52	356.73	400.00	48.52	62111.98	62507.63	48.52
1039	DS01-205XA	474.00	1240.95	136.17	262.20	364.80	136.26	61636.29	62305.28	136.26
1040	DS01-133	489.50	2652.47	44.82	273.78	317.37	44.82	61786.00	61940.85	44.82
1041	DS01-134	80.00	2729.00	68.43	303.53	376.50	68.52	61658.79	61954.39	68.52
1042	DS01-135	96.00	2646.26	68.24	261.26	334.01	68.34	61643.32	61970.17	68.34
1043	DS01-138A	92.00	616.43	24.22	326.94	354.85	24.22	61799.83	62200.43	24.22
1044	DS01-138B	463.63	2397.00	32.24	335.33	371.67	32.24	61790.69	62000.22	32.24
1045	DS01-133A	81.83	2653.20	68.12	246.03	312.48	68.22	61626.78	61939.98	68.22
1046	DS01-107	328.40	2858.52	57.25	98.05	181.62	57.33	61100.96	61344.29	57.33
1047	DS01-109	1275.57	2868.00	58.54	136.77	229.23	60.14	61145.91	61373.23	60.14

Survey Kilometer Summary:

	WTRDEPTH		CORRGRAV		RAWMAG
Minimum	Maximum Kilometer	Minimum	Maximum Kilometer	Minimum	Maximum Kilometer
35.49	3580.40 7771.31	48.30	436.30 7778.11	60779.05	62872.50 7727.27

Total Navigation Data (Kilometers): 7778.11

## **APPENDIX 5**

### **INTERSECTION MISTIE REPORT**

Remarks Field:  
FUGRO-LCT INC.

SEISMIC AUSTRALIA  
OTWAY/SORELL BASIN  
OFFSHORE AUSTRALIA  
February 2002

LCT DATPRO Line Intersection Adjustment Report

Date: Feb 26 08:28:25 2002

DATAPRO Data Base Name: ../db10.merge

Channel(s) Selected:

B-WATR =  
B-FAG =  
B-3DBG =  
C-CMAG =

Number of Lines: 133

Line: OR01-45

LCT line number: 1

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	23.03	17.01	2.30	0.56	2.30	0.56	5.55	5.55
Mean-Mistie BSA ASA:	-3.87	0.00	-0.33	0.00	-0.33	0.00	1.30	1.30
Mean-Abs-Mistie BSA ASA:	5.35	6.80	1.21	0.30	1.21	0.30	2.50	2.50
Rms-Mistie BSA ASA:	10.34	9.03	1.42	0.34	1.42	0.34	3.08	3.08

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1036	14:36:33	-23.03	-17.01	1.18	-0.56	1.18	-0.56	5.55	5.55
53	15:35:10	0.69	10.07	-2.30	-0.19	-2.30	-0.19	3.43	3.43
52	16:41: 2	1.44	2.31	-1.53	0.35	-1.53	0.35	0.51	0.51
72	17:48: 0	0.75	3.02	1.02	0.29	1.02	0.29	-1.38	-1.38
73	18:47: 6	0.82	1.60	0.00	0.11	0.00	0.11	-1.62	-1.62

Line: OR01-43

LCT line number: 2

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	7.56	7.76	3.55	0.87	3.55	0.87	11.65	11.65
Mean-Mistie BSA ASA:	0.41	0.00	-1.39	0.00	-1.39	0.00	2.67	2.67
Mean-Abs-Mistie BSA ASA:	3.43	3.10	1.83	0.37	1.83	0.37	5.17	5.17
Rms-Mistie BSA ASA:	4.43	3.93	2.28	0.49	2.28	0.49	6.25	6.25

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
73	25: 8:57	0.85	-2.64	-1.12	0.06	-1.12	0.06	5.82	5.82
72	26: 2:37	1.06	-0.94	0.54	0.87	0.54	0.87	-3.97	-3.97
52	27: 4:14	1.68	-1.73	-3.55	-0.61	-3.55	-0.61	2.13	2.13
53	28: 0:54	-7.56	-2.46	-3.39	-0.21	-3.39	-0.21	11.65	11.65
1036	28:57:10	6.01	7.76	0.58	-0.10	0.58	-0.10	-2.30	-2.30

Line: OR01-41

LCT line number: 3

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	3.22	5.18	2.35	0.51	2.35	0.51	4.03	4.03
Mean-Mistie BSA ASA:	-0.92	0.00	-0.67	0.00	-0.67	0.00	-1.17	-1.17
Mean-Abs-Mistie BSA ASA:	1.37	2.87	1.22	0.25	1.22	0.25	1.54	1.54
Rms-Mistie BSA ASA:	1.78	3.50	1.42	0.32	1.42	0.32	2.11	2.11

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
53	9: 3:13	-3.22	4.51	-2.35	-0.09	-2.35	-0.09	-0.91	-0.91
51	9:53:20	-1.35	-5.18	-1.14	-0.39	-1.14	-0.39	0.73	0.73
72	10:53:31	0.60	1.23	1.09	0.51	1.09	0.51	-4.03	-4.03
73	11:46:52	0.30	-0.56	-0.29	-0.03	-0.29	-0.03	-0.48	-0.48

Line: OR01-39

LCT line number: 4

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	15.77	12.98	4.25	0.51	4.25	0.51	3.20	3.20
Mean-Mistie BSA ASA:	0.38	0.00	-2.39	0.00	-2.39	0.00	-0.43	-0.43
Mean-Abs-Mistie BSA ASA:	5.49	5.43	2.39	0.20	2.39	0.20	1.86	1.86
Rms-Mistie BSA ASA:	8.88	6.94	2.76	0.26	2.76	0.26	2.09	2.09

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
73	19:48:55	0.52	-2.06	-2.46	-0.09	-2.46	-0.09	-2.52	-2.52
72	20:39:57	0.87	-0.22	-1.19	0.34	-1.19	0.34	0.50	0.50
51	21:39: 4	0.44	-5.11	-3.37	-0.51	-3.37	-0.51	1.26	1.26
53	22:23:34	-14.92	-8.91	-4.25	0.11	-4.25	0.11	-3.20	-3.20
85	22:26:19	-0.43	3.32	-0.11	0.10	-0.11	0.10	null	null
50	22:40:55	15.77	12.98	-2.93	0.04	-2.93	0.04	1.82	1.82

Line: OR01-37

LCT line number: 5

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	9.24	9.49	3.02	0.78	3.02	0.78	20.33	20.33
Mean-Mistie BSA ASA:	-1.58	0.00	-1.68	0.00	-1.68	0.00	-3.17	-3.17
Mean-Abs-Mistie BSA ASA:	1.97	4.30	1.68	0.34	1.68	0.34	6.31	6.31
Rms-Mistie BSA ASA:	3.82	5.32	2.00	0.42	2.00	0.42	9.07	9.07

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
50	2:49:45	-9.24	-9.49	-2.01	0.11	-2.01	0.11	-20.33	-20.33
53	3: 9: 1	-1.00	7.55	-3.02	0.49	-3.02	0.49	-3.96	-3.96
51	3:47:40	-0.40	-3.40	-2.78	-0.78	-2.78	-0.78	-2.48	-2.48
72	4:46:46	0.28	1.73	-0.25	0.42	-0.25	0.42	-1.67	-1.67
73	5:39:30	0.89	0.86	-1.68	-0.17	-1.68	-0.17	7.09	7.09
48	6:35:39	0.02	2.76	-0.36	-0.08	-0.36	-0.08	2.35	2.35

Line: OR01-04

LCT line number: 6

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	1.67	5.03	1.56	0.72	1.56	0.72	5.24	4.59
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Mean-Mistie BSA ASA:	0.59	0.00	0.42	0.00	0.42	0.00	0.34	0.21
Mean-Abs-Mistie BSA ASA:	0.74	1.34	0.65	0.29	0.65	0.29	2.17	1.85
Rms-Mistie BSA ASA:	0.90	1.99	0.79	0.37	0.79	0.37	2.67	2.29

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
70	11: 7: 2	-0.02	2.91	1.56	0.72	1.56	0.72	4.59	4.59
64	11:36:49	-0.42	0.39	0.06	-0.15	0.06	-0.15	5.24	1.87
19	12: 2:37	0.18	5.03	0.27	0.24	0.27	0.24	-1.03	-1.03
65	12:25:26	1.32	0.36	0.72	-0.13	0.72	-0.13	-1.48	-1.48
66	12:54:30	-0.51	-1.08	0.94	0.35	0.94	0.35	0.16	0.16
20	13:18:34	1.67	-1.93	0.34	-0.05	0.34	-0.05	2.06	2.74
45	13:38: 0	0.72	-0.14	-0.08	-0.16	-0.08	-0.16	-0.60	-0.60
22	13:58:28	0.34	-0.11	0.64	-0.14	0.64	-0.14	-4.07	-4.07
21	14:13:30	0.79	-0.21	0.40	0.57	0.40	0.57	-2.51	-2.51
44	14:27:37	1.45	-3.29	0.64	-0.16	0.64	-0.16	-1.32	-0.11
11	14:43:54	1.11	-0.41	-1.40	-0.70	-1.40	-0.70	null	null
42	14:43:54	0.98	-0.42	0.95	-0.39	0.95	-0.39	1.67	1.67
43	14:59:53	0.06	-1.11	0.44	0.01	0.44	0.01	1.33	1.33

Line: OR01-02  
LCT line number: 7  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 2.35 4.77 0.99 0.52 0.99 0.52 19.03 19.03  
Mean-Mistie BSA ASA: 0.85 0.00 -0.02 0.00 -0.02 0.00 -1.85 -2.65  
Mean-Abs-Mistie BSA ASA: 0.88 1.15 0.49 0.25 0.49 0.25 3.58 3.32  
Rms-Mistie BSA ASA: 1.02 1.87 0.58 0.30 0.58 0.30 6.17 6.22

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
41	18:53:19	0.74	-0.60	-0.49	-0.52	-0.49	-0.52	1.08	1.08
43	19: 8:19	0.80	-0.30	-0.20	-0.26	-0.20	-0.26	-2.00	-2.00
42	19:24:43	0.90	-0.44	0.99	0.01	0.99	0.01	1.02	1.02
11	19:24:43	1.24	-0.21	-0.87	0.19	-0.87	0.19	null	null
44	19:40:57	0.93	-3.74	0.28	-0.16	0.28	-0.16	3.33	0.07
21	19:55:24	0.50	-0.43	-0.86	-0.32	-0.86	-0.32	-0.36	-0.36
22	20:10:44	0.75	0.37	0.62	0.19	0.62	0.19	-4.36	-4.36
45	20:30:51	0.78	-0.01	-0.55	-0.27	-0.55	-0.27	-0.85	-0.85
20	20:50:38	2.35	-1.18	0.07	0.04	0.07	0.04	2.58	-5.99
66	21:14:52	0.51	0.01	0.74	0.52	0.74	0.52	1.50	1.50
19	22: 6: 6	-0.15	4.77	-0.07	0.27	-0.07	0.27	-19.03	-19.03
64	22:31:19	0.88	1.76	0.15	0.31	0.15	0.31	-3.30	-0.25

Line: ORV01-06  
LCT line number: 8  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 1.18 2.95 2.15 0.56 2.15 0.56 12.22 12.22  
Mean-Mistie BSA ASA: 0.83 0.00 1.35 0.00 1.35 0.00 -0.86 -1.65  
Mean-Abs-Mistie BSA ASA: 0.83 1.01 1.35 0.32 1.35 0.32 3.41 2.70  
Rms-Mistie BSA ASA: 0.85 1.35 1.47 0.38 1.47 0.38 5.41 4.65

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
66	3: 0: 9	0.80	1.16	0.96	-0.56	0.96	-0.56	-12.22	-12.22
20	3:25:49	1.07	-1.59	1.21	-0.11	1.21	-0.11	8.76	4.18
22	4: 5:35	1.18	1.66	1.70	-0.01	1.70	-0.01	-1.87	-1.87
21	4:20:42	0.76	0.70	0.32	-0.43	0.32	-0.43	-0.58	-0.58
44	4:35: 8	0.85	-2.95	1.50	-0.23	1.50	-0.23	1.44	-0.34
42	4:50:23	0.44	-0.02	2.15	-0.12	2.15	-0.12	-0.14	-0.14
11	4:50:28	0.85	0.26	0.64	0.42	0.64	0.42	null	null
43	5: 6:33	0.83	0.61	1.88	0.53	1.88	0.53	-1.28	-1.28
41	5:21:21	0.65	0.18	1.82	0.50	1.82	0.50	-0.96	-0.96

Line: ORV01-10  
LCT line number: 9  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 1.38 2.63 2.36 0.94 2.36 0.94 8.53 6.14  
Mean-Mistie BSA ASA: -0.81 0.00 1.04 0.00 1.04 0.00 -3.12 -1.76  
Mean-Abs-Mistie BSA ASA: 0.81 1.38 1.04 0.35 1.04 0.35 3.48 2.12  
Rms-Mistie BSA ASA: 0.86 1.59 1.25 0.46 1.25 0.46 4.51 2.87

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
41	9: 5:29	-0.95	0.42	0.88	0.01	0.88	0.01	1.08	1.08
43	9:20: 8	-0.81	0.80	0.63	-0.27	0.63	-0.27	-0.71	-0.71
11	9:36:12	null	null	null	null	null	null	null	null
42	9:36:12	-0.83	0.54	2.36	0.54	2.36	0.54	-6.14	-6.14
44	9:50:50	-0.67	-2.63	1.74	0.47	1.74	0.47	-8.53	-0.37
21	10: 5: 2	-0.43	1.35	0.37	0.07	0.37	0.07	-1.92	-1.92
22	10:20:15	-0.60	1.72	0.32	-0.94	0.32	-0.94	-2.47	-2.47
20	11: 0:15	-1.38	-2.20	1.00	0.13	1.00	0.13	Intersection Not Used	

Line: ORV01-08  
LCT line number: 10  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 1.10 2.36 2.35 0.67 2.35 0.67 20.12 7.21  
Mean-Mistie BSA ASA: 0.62 0.00 1.59 0.00 1.59 0.00 -4.38 -0.97  
Mean-Abs-Mistie BSA ASA: 0.62 1.14 1.59 0.25 1.59 0.25 6.84 3.66  
Rms-Mistie BSA ASA: 0.67 1.33 1.69 0.31 1.69 0.31 9.32 4.41

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
66	14:49:23	0.23	0.93	1.48	-0.26	1.48	-0.26	-6.01	-6.01
20	15:20:56	0.68	-1.64	2.22	0.67	2.22	0.67	-20.12	-0.70
22	16: 1: 1	0.70	1.52	1.65	-0.29	1.65	-0.29	-7.21	-7.21
21	16:16:34	0.58	0.86	0.93	-0.06	0.93	-0.06	3.14	3.14
44	16:31:16	1.10	-2.36	1.85	-0.11	1.85	-0.11	-0.33	0.68
11	16:46:19	0.59	0.35	0.64	0.19	0.64	0.19	null	null
42	16:46:21	0.46	0.34	2.35	-0.14	2.35	-0.14	4.25	4.25

Line: ORV01-07  
LCT line number: 11  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 1.24 0.41 2.14 0.70 2.14 0.70 null null  
Mean-Mistie BSA ASA: -0.78 0.00 0.63 0.00 0.63 0.00 null null  
Mean-Abs-Mistie BSA ASA: 0.78 0.25 1.14 0.32 1.14 0.32 null null  
Rms-Mistie BSA ASA: 0.88 0.28 1.28 0.39 1.28 0.39 null null

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
9	21:48:34	null	null	null	null	null	null	null	null
10	22:21:46	-0.59	-0.35	-0.64	-0.19	-0.64	-0.19	null	null
8	22:48:24	-0.85	-0.26	-0.64	-0.42	-0.64	-0.42	null	null
7	23:24: 4	-1.24	0.21	0.87	-0.19	0.87	-0.19	null	null
6	24: 9: 3	-1.11	0.41	1.40	0.70	1.40	0.70	null	null
42	25: 9:40	-0.12	0.00	2.14	0.10	2.14	0.10	null	null

Line: OR01-06

LCT line number: 12

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	2.28	6.79	3.68	0.87	3.68	0.87	11.06	11.06
Mean-Mistie BSA ASA:	-0.57	0.00	3.06	0.00	3.06	0.00	-0.24	0.00
Mean-Abs-Mistie BSA ASA:	1.02	2.15	3.06	0.30	3.06	0.30	3.55	3.31
Rms-Mistie BSA ASA:	1.16	3.07	3.10	0.38	3.10	0.38	4.68	4.52

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
44	7:32:39	0.86	-3.10	3.68	0.35	3.68	0.35	-5.23	0.55
21	7:47:43	-1.27	-1.49	2.34	-0.02	2.34	-0.02	2.53	2.53
22	8: 3:45	-0.57	-0.25	3.60	0.28	3.60	0.28	11.06	11.06
45	8:25: 6	0.35	0.27	2.10	-0.50	2.10	-0.50	-1.47	-1.47
20	8:45:46	-0.80	-3.62	3.35	0.43	3.35	0.43	0.95	0.92
66	9:10:56	-0.64	-0.44	2.96	-0.15	2.96	-0.15	-1.55	-1.55
1027	9:11:48	-2.28	0.12	2.46	-0.25	2.46	-0.25	0.08	0.08
67	9:22:53	0.88	0.23	3.01	-0.43	3.01	-0.43	-1.00	-1.00
65	9:41:28	-1.08	-1.28	3.26	-0.12	3.26	-0.12	-2.69	-2.69
19	10: 5:21	0.00	5.62	2.53	-0.02	2.53	-0.02	8.08	8.08
64	10:32:44	-1.72	-0.13	3.61	0.87	3.61	0.87	-4.47	-4.98
79	11: 3:32	-1.11	6.79	3.57	-0.11	3.57	-0.11	-4.94	-4.94
70	11: 3:38	-1.66	2.05	2.84	-0.53	2.84	-0.53	-5.18	-5.18
69	11:34:26	1.02	-4.77	3.55	0.19	3.55	0.19	0.53	-1.38

Line: OR01-08

LCT line number: 13

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	3.03	6.79	4.22	1.09	4.22	1.09	13.70	13.70
Mean-Mistie BSA ASA:	0.81	0.00	3.20	0.00	3.20	0.00	-1.64	-2.57
Mean-Abs-Mistie BSA ASA:	0.82	2.11	3.20	0.31	3.20	0.31	8.36	7.04
Rms-Mistie BSA ASA:	1.11	3.08	3.27	0.43	3.27	0.43	9.29	8.51

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
69	15:17:43	1.45	-5.37	3.55	0.01	3.55	0.01	7.75	2.87
79	15:45:42	-0.09	6.79	4.18	0.32	4.18	0.32	-0.50	-0.50
64	16:14:14	0.00	0.57	2.33	-0.60	2.33	-0.60	5.36	5.91
19	16:40: 4	0.89	5.49	2.72	-0.02	2.72	-0.02	-12.03	-12.03
65	17: 3:11	1.35	0.14	4.22	0.65	4.22	0.65	13.70	13.70
67	17:21:11	1.25	-0.41	4.08	0.45	4.08	0.45	-3.14	-3.14
66	17:31:38	0.53	-0.29	3.36	0.06	3.36	0.06	-11.28	-11.28
1027	17:32:32	0.27	1.66	2.83	-0.07	2.83	-0.07	-13.06	-13.06
20	17:56:30	3.03	-0.81	2.02	-1.09	2.02	-1.09	11.38	-0.94
45	18:16:32	0.49	-0.61	3.20	0.40	3.20	0.40	-11.55	-11.55
22	18:38: 1	0.81	0.11	3.50	0.00	3.50	0.00	8.82	8.82
21	18:53:24	0.43	-0.82	2.62	0.08	2.62	0.08	-3.64	-3.64
44	19: 8: 1	0.70	-4.28	3.69	0.18	3.69	0.18	-4.64	-0.96
40	19:57: 2	0.17	-2.16	2.43	-0.37	2.43	-0.37	-10.18	-10.18

Line: DS02-100

LCT line number: 14

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	3.51	6.20	2.84	0.92	2.84	0.92	7.11	7.11
Mean-Mistie BSA ASA:	-1.02	0.00	1.82	0.00	1.82	0.00	-0.38	-0.38
Mean-Abs-Mistie BSA ASA:	1.05	2.34	1.90	0.30	1.90	0.30	2.99	2.99
Rms-Mistie BSA ASA:	1.42	2.88	1.98	0.37	1.98	0.37	3.58	3.58

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
17	0:48:26	-0.93	-1.78	2.33	0.92	2.33	0.92	5.63	5.63
18	1:12:51	0.04	2.41	2.03	-0.04	2.03	-0.04	1.49	1.49
15	1:38:54	-0.35	1.87	1.82	0.57	1.82	0.57	-3.64	-3.64
37	2: 4:38	-0.31	2.38	2.16	-0.22	2.16	-0.22	0.50	0.50
35	2:34: 8	-3.51	-6.20	2.31	0.24	2.31	0.24	-2.15	-2.15
36	3: 3:46	-0.69	-1.21	1.45	0.23	1.45	0.23	-2.67	-2.67
1029	3:30: 3	-2.96	3.73	1.49	-0.01	1.49	-0.01	-2.55	-2.55
34	3:55:17	-1.99	0.10	-0.63	-0.38	-0.63	-0.38	null	null
33	4:20:36	0.18	-0.57	2.33	0.05	2.33	0.05	-2.70	-2.70
32	4:50:39	-1.30	2.36	2.67	0.17	2.67	0.17	-6.35	-6.35
31	5:12:54	-0.71	-1.38	2.14	-0.38	2.14	-0.39	-3.63	-3.63
30	5:54:58	-0.47	5.70	2.84	0.19	2.84	0.19	-1.57	-1.57
29	6:22:48	-0.88	-1.97	1.81	-0.28	1.81	-0.28	0.36	0.36
28	6:51:32	-1.19	0.17	1.70	-0.20	1.70	-0.20	1.17	1.17
27	7:22:10	-0.34	-3.57	1.06	-0.42	1.06	-0.42	3.30	3.30
26	8: 1:19	-0.99	-2.05	1.67	-0.44	1.67	-0.44	7.11	7.11

Line: DS02-212

LCT line number: 15

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	17.02	25.58	1.97	0.89	1.97	0.89	8.86	4.65
Mean-Mistie BSA ASA:	-2.35	0.00	-0.02	0.00	-0.02	0.00	1.07	0.08
Mean-Abs-Mistie BSA ASA:	5.78	6.18	0.89	0.39	0.89	0.39	2.36	1.50
Rms-Mistie BSA ASA:	7.64	8.75	1.07	0.45	1.07	0.45	3.33	2.04

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
14	2: 6:13	0.35	-1.87	-1.82	-0.57	-1.82	-0.57	3.64	3.64
24	2:41:47	-4.24	-5.92	0.11	0.09	0.11	0.09	0.66	0.66
74	3: 6:49	0.34	6.29	-0.20	0.39	-0.20	0.39	-0.32	-0.32
25	3: 8: 5	1.44	-0.88	-0.68	-0.27	-0.68	-0.27	-1.06	-1.06
23	3:21: 0	-3.74	-5.37	-0.27	-0.14	-0.27	-0.14	-0.92	-0.92
72	4:15:36	1.38	5.23	-1.32	-0.89	-1.32	-0.89	-4.65	-4.65
71	4:59: 3	-7.12	-2.52	-1.21	0.62	-1.21	0.62	2.94	2.94
1035	5:26:43	17.02	25.58	0.27	-0.47	0.27	-0.47	-0.76	-0.76
75	6:22:22	-8.25	-4.06	1.11	0.47	1.11	0.47	1.51	1.51
1033	6:34: 2	-13.21	-7.48	1.97	0.34	1.97	0.34	0.75	0.75

1034	7: 8: 9	-4.38	-6.82	0.86	0.30	0.86	0.30	2.22	-0.25
1003	8:13:58	-7.82	-2.18	0.89	0.12	0.89	0.12	8.86	-0.58

Line: ORW01DS214  
LCT line number: 16  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 24.46 16.71 1.81 0.76 1.81 0.76 2.75 2.75  
Mean-Mistie BSA ASA: 1.01 0.00 0.47 0.00 0.47 0.00 -0.55 -0.77  
Mean-Abs-Mistie BSA ASA: 6.31 4.77 1.28 0.35 1.28 0.35 1.40 1.31  
Rms-Mistie BSA ASA: 10.87 7.78 1.33 0.43 1.33 0.43 1.58 1.55

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1003	12:19:25	-1.93	-1.60	1.67	0.72	1.67	0.72	-0.48	-0.14
1034	13:52:55	24.46	16.71	1.06	0.33	1.06	0.33	1.06	-0.81
1033	14: 2:59	-0.71	-0.30	1.55	-0.25	1.55	-0.25	-2.75	-2.75
75	14:28:56	-0.98	-2.10	0.75	-0.06	0.75	-0.06	-1.26	-1.26
1035	15:29: 9	-14.93	-11.69	1.07	0.17	1.07	0.17	-0.64	-0.64
71	15:54:40	0.51	-0.21	-1.81	-0.15	-1.81	-0.15	1.90	1.90
72	16:39:22	0.65	-0.82	-1.01	-0.76	-1.01	-0.76	-1.70	-1.70

Line: ORW01DS214A  
LCT line number: 17  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 11.92 2.90 2.33 0.92 2.33 0.92 10.04 10.04  
Mean-Mistie BSA ASA: -3.76 0.00 -0.76 0.00 -0.76 0.00 1.03 1.03  
Mean-Abs-Mistie BSA ASA: 4.37 1.93 1.22 0.61 1.22 0.61 5.66 5.66  
Rms-Mistie BSA ASA: 6.90 2.07 1.45 0.72 1.45 0.72 6.69 6.69

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
74	23:13:10	-11.92	-2.90	-0.65	0.09	-0.65	0.09	-1.32	-1.32
24	23:44:39	-0.28	1.12	0.69	0.83	0.69	0.83	10.04	10.04
14	24:20:47	0.93	1.78	-2.33	-0.92	-2.33	-0.92	-5.63	-5.63

Line: DS02-213  
LCT line number: 18  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 66.77 58.35 3.10 0.57 3.10 0.57 7.15 7.15  
Mean-Mistie BSA ASA: -3.07 0.00 -0.82 0.00 -0.82 0.00 -0.18 -0.49  
Mean-Abs-Mistie BSA ASA: 13.06 12.24 0.98 0.21 0.98 0.21 1.77 1.58  
Rms-Mistie BSA ASA: 24.53 21.99 1.34 0.28 1.34 0.28 2.61 2.49

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
14	5:16:21	-0.04	-2.41	-2.03	0.04	-2.03	0.04	-1.49	-1.49
24	5:50:11	3.49	1.66	-0.73	0.09	-0.73	0.09	-7.15	-7.15
74	6:17:53	-4.42	1.38	-0.93	0.49	-0.93	0.49	0.85	0.85
23	6:27:32	null	null	-0.66	0.30	-0.66	0.30	0.14	0.14
72	7:25: 2	-1.04	2.65	-1.82	-0.57	-1.82	-0.57	1.99	1.99
71	8: 8:25	4.52	8.97	-3.10	-0.44	-3.10	-0.44	2.47	2.47
1035	8:32:15	-66.77	-58.35	0.03	0.13	0.03	0.13	-0.21	-0.21
75	9:29:27	3.85	7.90	-0.26	-0.07	-0.26	-0.07	0.47	0.47
1033	9:47:32	-2.45	3.12	0.84	0.05	0.84	0.05	-1.87	-1.87
1034	10: 9: 0	38.11	35.52	-0.22	0.04	-0.22	0.04	2.62	0.08
1003	11:29: 1	-5.94	-0.45	-0.11	-0.06	-0.11	-0.06	0.18	-0.69

Line: OR23DS223  
LCT line number: 19  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 58.78 52.66 2.80 0.85 2.80 0.85 19.03 19.03  
Mean-Mistie BSA ASA: 5.42 0.00 -0.56 0.00 -0.56 0.00 1.31 1.80  
Mean-Abs-Mistie BSA ASA: 6.09 9.94 1.15 0.29 1.15 0.29 3.94 3.79  
Rms-Mistie BSA ASA: 16.82 15.96 1.53 0.37 1.53 0.37 6.80 6.72

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1003	10:46:38	-1.29	-7.07	0.95	0.34	0.95	0.34	0.33	0.64
1004	12:10:55	58.78	52.66	1.91	0.02	1.91	0.02	-4.20	1.85
75	13:32: 4	-0.30	-7.52	0.65	0.18	0.65	0.18	-1.67	-1.67
1035	14:30:53	14.80	11.94	0.26	-0.31	0.26	-0.31	1.11	1.11
54	14:58:29	0.22	-3.64	-2.80	-0.85	-2.80	-0.85	-2.38	-2.38
55	15:22:55	-1.42	-6.70	-1.79	0.58	-1.79	0.58	0.56	0.56
72	16:19: 2	-0.26	-7.83	-0.35	0.24	-0.36	0.24	-0.36	-0.36
74	17: 5: 8	0.79	-4.68	-0.25	0.51	-0.25	0.51	-0.43	-0.43
48	17:55:14	0.03	-6.25	-0.44	-0.24	-0.44	-0.24	0.06	0.06
13	18:33: 0	-0.89	-5.49	-2.72	0.02	-2.72	0.02	12.03	12.03
12	19:14:10	0.00	-5.62	-2.53	0.02	-2.53	0.02	-8.08	-8.08
6	19:57:11	-0.18	-5.03	-0.27	-0.24	-0.27	-0.24	1.03	1.03
7	20:55:44	0.15	-4.77	0.07	-0.27	0.07	-0.27	19.03	19.03

Line: OR01-17  
LCT line number: 20  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 15.20 14.32 3.35 1.09 3.35 1.09 20.12 5.99  
Mean-Mistie BSA ASA: -1.85 0.00 -1.07 0.00 -1.07 0.00 -0.93 -0.04  
Mean-Abs-Mistie BSA ASA: 2.70 3.13 1.16 0.34 1.16 0.34 7.64 2.58  
Rms-Mistie BSA ASA: 4.85 4.80 1.49 0.46 1.49 0.46 10.19 3.24

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
9	2:19:29	1.38	2.20	-1.00	-0.13	-1.00	-0.13	Intersection 20.12	Not Used 0.70
10	2:53: 4	-0.68	1.64	-2.22	-0.67	-2.22	-0.67		
8	3:17:48	-1.07	1.59	-1.21	0.11	-1.21	0.11	-8.76	-4.18
7	3:51:36	-2.35	1.18	-0.07	-0.04	-0.07	-0.04	-2.58	5.99
6	4:40:49	-1.67	1.93	-0.34	0.05	-0.34	0.05	-2.06	-2.74
12	5:20:34	0.80	3.62	-3.35	-0.43	-3.35	-0.43	-0.95	-0.92
13	6: 4:14	-3.03	0.81	-2.02	1.09	-2.02	1.09	-11.38	0.94
48	6:47:49	-1.00	1.16	-0.37	0.20	-0.37	0.20	null	null
74	7:38:20	0.13	3.10	-0.85	0.28	-0.85	0.28	null	null
63	8:16:17	2.38	-2.92	0.48	-0.58	0.48	-0.58	null	null
72	8:28: 1	-15.20	-14.32	-0.85	0.12	-0.84	0.12	null	null

Line: OR01-11  
LCT line number: 21  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 1.27 1.49 2.62 0.57 2.62 0.57 3.64 3.64



Mean-Mistie BSA ASA: -0.15 0.00 -0.76 0.00 -0.76 0.00 0.56 0.56  
Mean-Abs-Mistie BSA ASA: 0.65 0.86 0.98 0.22 0.98 0.22 1.87 1.87  
Rms-Mistie BSA ASA: 0.70 0.94 1.29 0.28 1.29 0.28 2.21 2.21

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
74	12:32:33	0.56	0.94	-0.84	-0.28	-0.84	-0.28	-0.22	-0.22
48	13:19:47	-0.55	-0.98	0.15	0.16	0.15	0.16	1.95	1.95
13	14: 6:31	-0.43	0.82	-2.62	-0.08	-2.62	-0.08	3.64	3.64
12	14:49:40	1.27	1.49	-2.34	0.02	-2.34	0.02	-2.53	-2.53
6	15:27:12	-0.79	0.21	-0.40	-0.57	-0.40	-0.57	2.51	2.51
7	16:10:35	-0.50	0.43	0.86	0.32	0.86	0.32	0.36	0.36
8	16:43:12	-0.76	-0.70	-0.32	0.43	-0.32	0.43	0.58	0.58
10	17: 7:11	-0.58	-0.86	-0.93	0.06	-0.93	0.06	-3.14	-3.14
9	17:37:50	0.43	-1.35	-0.37	-0.07	-0.37	-0.07	1.92	1.92

Line: OR01-13  
LCT line number: 22  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 10.90 8.63 3.60 0.94 3.60 0.94 11.06 11.06  
Mean-Mistie BSA ASA: 0.26 0.00 -1.43 0.00 -1.43 0.00 -0.82 -0.82  
Mean-Abs-Mistie BSA ASA: 1.93 1.64 1.63 0.28 1.63 0.28 4.46 4.46  
Rms-Mistie BSA ASA: 3.55 2.82 1.95 0.43 1.95 0.43 5.43 5.43

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
9	22:13:55	0.60	-1.72	-0.32	0.94	-0.32	0.94	2.47	2.47
10	22:46:13	-0.70	-1.52	-1.65	0.29	-1.65	0.29	7.21	7.21
8	23:11:10	-1.18	-1.66	-1.70	0.01	-1.70	0.01	1.87	1.87
7	23:44:52	-0.75	-0.37	-0.62	-0.19	-0.62	-0.19	4.36	4.36
6	24:30:11	-0.34	0.11	-0.64	0.14	-0.64	0.14	4.07	4.07
12	25: 7:46	0.57	0.25	-3.60	-0.28	-3.60	-0.28	-11.06	-11.06
13	25:49:31	-0.81	-0.11	-3.50	0.00	-3.50	0.00	-8.82	-8.82
48	26:35:22	-0.63	-1.61	-0.85	0.12	-0.85	0.12	-2.08	-2.08
74	27:23:10	-0.91	-1.08	-1.64	-0.12	-1.64	-0.12	-4.12	-4.12
72	28:15:47	10.90	8.63	-2.29	-0.93	-2.29	-0.93	-2.23	-2.23
61	28:40: 4	-3.85	-0.93	1.12	0.03	1.12	0.03	-0.75	-0.75

Line: DS02-103  
LCT line number: 23  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 11.71 16.58 1.49 0.62 1.49 0.62 4.73 4.73  
Mean-Mistie BSA ASA: -0.76 0.00 0.75 0.00 0.75 0.00 -0.40 -0.40  
Mean-Abs-Mistie BSA ASA: 3.96 3.94 0.84 0.26 0.84 0.26 1.49 1.49  
Rms-Mistie BSA ASA: 5.42 5.58 0.94 0.30 0.94 0.30 2.05 2.05

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
18	9:39:29	null	null	0.66	-0.30	0.66	-0.30	-0.14	-0.14
15	10: 3:25	3.74	5.37	0.27	0.14	0.27	0.14	0.92	0.92
37	10:25:21	null	null	1.49	0.23	1.49	0.23	-0.95	-0.95
35	10:54:24	1.80	-1.48	1.30	0.35	1.30	0.35	-1.86	-1.86
36	11:23:53	0.83	-0.29	0.04	-0.06	0.04	-0.06	0.28	0.28
1029	11:49:37	-1.91	4.18	0.16	-0.22	0.16	-0.22	-0.34	-0.34
34	12:14:24	-1.17	0.33	-0.81	0.56	-0.81	0.56	null	null
33	12:40:38	-0.89	-2.23	0.98	-0.19	0.98	-0.19	-1.88	-1.88
32	13: 8:11	-8.86	-5.79	1.06	-0.32	1.06	-0.32	1.03	1.03
31	13:31:39	1.35	0.09	1.13	-0.28	1.13	-0.27	-0.09	-0.09
1030	13:49:30	-7.95	3.90	0.58	-0.33	0.58	-0.33	-4.46	-4.46
30	14:14:32	-0.61	4.97	1.47	-0.06	1.47	-0.06	2.07	2.07
29	14:41:14	-0.39	-2.06	0.74	-0.22	0.74	-0.22	0.10	0.10
28	15: 8:10	-1.91	-1.15	0.91	0.13	0.91	0.13	1.29	1.29
27	15:36:54	8.30	4.48	0.98	0.62	0.98	0.62	-0.66	-0.66
1031	15:51:45	-11.71	-16.58	1.03	0.20	1.03	0.20	-4.73	-4.73
26	16:14:46	7.93	6.27	0.73	-0.25	0.73	-0.25	2.98	2.98

Line: DS02-101  
LCT line number: 24  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 10.36 5.92 1.93 1.02 1.93 1.02 10.04 10.04  
Mean-Mistie BSA ASA: -0.48 0.00 0.56 0.00 0.56 0.00 -0.41 -0.41  
Mean-Abs-Mistie BSA ASA: 2.70 2.33 1.00 0.44 1.00 0.45 3.23 3.23  
Rms-Mistie BSA ASA: 3.69 2.78 1.18 0.52 1.18 0.52 4.45 4.45

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
26	5:36: 0	-0.40	-2.01	1.77	0.93	1.77	0.93	-9.32	-9.32
27	6:16: 7	2.94	-0.84	0.33	0.12	0.33	0.12	1.90	1.90
28	6:46:48	-1.88	-1.06	0.99	0.35	0.99	0.35	-2.01	-2.01
29	7:15:26	-0.99	-2.62	1.33	0.51	1.33	0.51	0.08	0.08
30	7:43: 7	-1.09	4.54	1.86	0.47	1.86	0.47	-1.42	-1.42
31	8:26:36	-0.48	-1.69	1.93	0.67	1.93	0.67	1.25	1.25
32	8:50: 4	-2.83	0.29	1.53	0.29	1.53	0.29	-2.08	-2.08
33	9:20:58	3.12	1.83	1.24	0.22	1.25	0.22	4.80	4.80
34	9:48:33	-3.89	-2.34	-1.89	-0.38	-1.89	-0.38	null	null
1029	10:15: 0	-10.36	-4.22	-0.22	-0.46	-0.22	-0.46	2.98	2.98
36	10:42:18	-0.06	-1.12	-0.38	-0.33	-0.38	-0.33	-1.27	-1.27
35	11:13:26	5.40	2.17	-0.21	-1.02	-0.21	-1.02	2.97	2.97
37	11:44:23	1.77	3.92	0.76	-0.35	0.76	-0.35	-0.46	-0.46
15	12: 9:31	4.24	5.92	-0.11	-0.09	-0.11	-0.09	-0.66	-0.66
18	12:34:32	-3.49	-1.66	0.73	-0.09	0.73	-0.09	7.15	7.15
17	12:58:37	0.28	-1.12	-0.69	-0.83	-0.69	-0.83	-10.04	-10.04

Line: DS02-102  
LCT line number: 25  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 21.49 17.89 2.28 0.74 2.28 0.74 4.17 4.17  
Mean-Mistie BSA ASA: -0.81 0.00 0.93 0.00 0.93 0.00 0.43 0.43  
Mean-Abs-Mistie BSA ASA: 4.50 4.72 1.04 0.26 1.04 0.26 1.41 1.41  
Rms-Mistie BSA ASA: 7.36 6.91 1.18 0.32 1.18 0.32 1.93 1.93

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
74	15:21: 4	null	null	0.08	0.26	0.08	0.26	null	null
15	15:28:22	-1.44	0.88	0.68	0.27	0.68	0.27	1.06	1.06
37	15:52:35	-1.04	1.76	2.28	0.74	2.28	0.74	-0.47	-0.47
35	16:24: 2	8.10	5.52	1.68	0.44	1.68	0.44	0.01	0.01

36	16:54:49	3.04	2.62	0.54	0.16	0.54	0.16	-0.19	-0.19
1029	17:22:10	0.12	6.91	0.60	-0.06	0.60	-0.06	-0.55	-0.55
34	17:48:36	-0.29	1.91	-0.89	0.20	-0.89	0.20	null	null
33	18:16:12	1.61	0.97	1.37	-0.08	1.37	-0.08	-2.08	-2.08
32	18:45:51	-0.62	3.15	1.53	-0.13	1.53	-0.13	1.89	1.89
31	19:10:19	3.54	2.98	1.67	-0.01	1.67	-0.01	0.18	0.18
30	19:54: 9	-21.49	-15.21	1.20	-0.61	1.21	-0.60	-3.30	-3.30
29	20:21:53	7.63	6.65	1.24	-0.01	1.24	-0.01	-0.21	-0.21
28	20:50: 8	0.59	2.04	0.79	-0.27	0.79	-0.27	2.91	2.91
27	21:20: 6	3.06	-0.07	0.33	-0.32	0.33	-0.32	0.31	0.31
1031	21:35:24	-13.72	-17.89	0.78	-0.33	0.78	-0.33	2.35	2.35
26	21:59:49	-1.25	-2.21	1.03	-0.24	1.03	-0.24	4.17	4.17

Line: DS02-200

LCT line number: 26

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	7.93	6.27	1.77	0.93	1.77	0.93	9.32	9.32
Mean-Mistie BSA ASA:	-1.32	0.00	-1.30	0.00	-1.30	0.00	-1.23	-1.23
Mean-Abs-Mistie BSA ASA:	2.64	3.13	1.30	0.46	1.30	0.46	5.89	5.89
Rms-Mistie BSA ASA:	4.05	3.62	1.37	0.54	1.37	0.54	6.39	6.39

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
23	4: 9:33	-7.93	-6.27	-0.73	0.25	-0.73	0.25	-2.98	-2.98
25	4:30:32	1.25	2.21	-1.03	0.24	-1.03	0.24	-4.17	-4.17
24	4:55:51	0.40	2.01	-1.77	-0.93	-1.77	-0.93	9.32	9.32
14	5:31: 7	0.99	2.05	-1.67	0.44	-1.67	0.44	-7.11	-7.11

Line: DS02-201

LCT line number: 27

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	8.30	4.48	1.06	0.62	1.06	0.62	3.30	3.30
Mean-Mistie BSA ASA:	-3.49	0.00	-0.68	0.00	-0.68	0.00	-1.21	-1.21
Mean-Abs-Mistie BSA ASA:	3.66	2.24	0.68	0.37	0.68	0.37	1.54	1.54
Rms-Mistie BSA ASA:	4.67	2.89	0.76	0.41	0.76	0.41	1.94	1.94

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
14	12:27:29	0.34	3.57	-1.06	0.42	-1.06	0.42	-3.30	-3.30
24	13: 1: 6	-2.94	0.84	-0.33	-0.12	-0.33	-0.12	-1.90	-1.90
25	13:25:24	-3.06	0.07	-0.33	0.32	-0.33	0.32	-0.31	-0.31
23	13:45: 3	-8.30	-4.48	-0.98	-0.62	-0.98	-0.62	0.66	0.66

Line: DS02-202

LCT line number: 28

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	1.91	2.04	1.70	0.35	1.70	0.35	2.91	2.91
Mean-Mistie BSA ASA:	1.10	0.00	-1.10	0.00	-1.10	0.00	-0.84	-0.84
Mean-Abs-Mistie BSA ASA:	1.39	1.11	1.10	0.24	1.10	0.24	1.85	1.85
Rms-Mistie BSA ASA:	1.49	1.29	1.15	0.25	1.15	0.25	1.97	1.97

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
23	17:44:15	1.91	1.15	-0.91	-0.13	-0.91	-0.13	-1.29	-1.29
25	18: 3:44	-0.59	-2.04	-0.79	0.27	-0.79	0.27	-2.91	-2.91
24	18:29: 8	1.88	1.06	-0.99	-0.35	-0.99	-0.35	2.01	2.01
14	19: 3:38	1.19	-0.17	-1.70	0.20	-1.70	0.20	-1.17	-1.17

Line: DS02-203

LCT line number: 29

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	7.63	6.65	1.81	0.51	1.81	0.51	0.36	0.36
Mean-Mistie BSA ASA:	-1.34	0.00	-1.28	0.00	-1.28	0.00	-0.08	-0.08
Mean-Abs-Mistie BSA ASA:	2.47	3.33	1.28	0.25	1.28	0.25	0.19	0.19
Rms-Mistie BSA ASA:	3.88	3.85	1.33	0.31	1.33	0.31	0.22	0.22

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
14	1:53: 5	0.88	1.97	-1.81	0.28	-1.81	0.28	-0.36	-0.36
24	2:27:55	0.99	2.62	-1.33	-0.51	-1.33	-0.51	-0.08	-0.08
25	2:52:27	-7.63	-6.65	-1.24	0.01	-1.24	0.01	0.21	0.21
23	3:11:15	0.39	2.06	-0.74	0.22	-0.74	0.22	-0.10	-0.10

Line: DS02-204

LCT line number: 30

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	21.49	15.21	2.84	0.61	2.84	0.60	3.30	3.30
Mean-Mistie BSA ASA:	5.92	0.00	-1.84	0.00	-1.84	0.00	1.05	1.05
Mean-Abs-Mistie BSA ASA:	5.92	7.61	1.84	0.33	1.84	0.33	2.09	2.09
Rms-Mistie BSA ASA:	10.77	8.79	1.94	0.40	1.94	0.40	2.22	2.22

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
23	7:34: 0	0.61	-4.97	-1.47	0.06	-1.47	0.06	-2.07	-2.07
25	7:52:23	21.49	15.21	-1.20	0.61	-1.21	0.60	3.30	3.30
24	8:17:30	1.09	-4.54	-1.86	-0.47	-1.86	-0.47	1.42	1.42
14	8:51:38	0.47	-5.70	-2.84	-0.19	-2.84	-0.19	1.57	1.57

Line: DS02-205

LCT line number: 31

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	3.54	2.98	2.14	0.67	2.14	0.67	3.63	3.63
Mean-Mistie BSA ASA:	-0.93	0.00	-1.72	0.00	-1.72	0.00	0.57	0.57
Mean-Abs-Mistie BSA ASA:	1.52	1.53	1.72	0.34	1.72	0.34	1.29	1.29
Rms-Mistie BSA ASA:	1.94	1.85	1.76	0.41	1.76	0.41	1.92	1.92

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
14	13:47:40	0.71	1.38	-2.14	0.38	-2.14	0.39	3.63	3.63
24	14:22: 7	0.48	1.69	-1.93	-0.67	-1.93	-0.67	-1.25	-1.25
25	14:47: 6	-3.54	-2.98	-1.67	0.01	-1.67	0.01	-0.18	-0.18
23	15: 4:54	-1.35	-0.09	-1.13	0.28	-1.13	0.27	0.09	0.09

Line: DS02-206

LCT line number: 32

Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 8.86 5.79 2.67 0.32 2.67 0.32 6.35 6.35  
Mean-Mistie BSA ASA: 3.40 0.00 -1.70 0.00 -1.70 0.00 1.38 1.38  
Mean-Abs-Mistie BSA ASA: 3.40 2.90 1.70 0.23 1.70 0.23 2.84 2.84  
Rms-Mistie BSA ASA: 4.71 3.50 1.80 0.24 1.80 0.24 3.51 3.51

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
23	19: 1: 8	8.86	5.79	-1.06	0.32	-1.06	0.32	-1.03	-1.03
25	19:19:14	0.62	-3.15	-1.53	0.13	-1.53	0.13	-1.89	-1.89
24	19:44:41	2.83	-0.29	-1.53	-0.29	-1.53	-0.29	2.08	2.08
14	20:20:47	1.30	-2.36	-2.67	-0.17	-2.67	-0.17	6.35	6.35

Line: DS02-207  
LCT line number: 33  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 3.12 2.23 2.33 0.22 2.33 0.22 4.80 4.80  
Mean-Mistie BSA ASA: -1.01 0.00 -1.48 0.00 -1.48 0.00 0.47 0.47  
Mean-Abs-Mistie BSA ASA: 1.45 1.40 1.48 0.13 1.48 0.13 2.87 2.87  
Rms-Mistie BSA ASA: 1.82 1.55 1.57 0.15 1.57 0.15 3.09 3.09

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
14	23:53: 8	-0.18	0.57	-2.33	-0.05	-2.33	-0.05	2.70	2.70
24	24:28:40	-3.12	-1.83	-1.24	-0.22	-1.25	-0.22	-4.80	-4.80
25	24:54:20	-1.61	-0.97	-1.37	0.08	-1.37	0.08	2.08	2.08
23	25:10:49	0.89	2.23	-0.98	0.19	-0.98	0.19	1.88	1.88

Line: DS02-208  
LCT line number: 34  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 3.89 2.34 1.89 0.56 1.89 0.56 null null  
Mean-Mistie BSA ASA: 1.84 0.00 1.05 0.00 1.05 0.00 null null  
Mean-Abs-Mistie BSA ASA: 1.84 1.17 1.05 0.38 1.05 0.38 null null  
Rms-Mistie BSA ASA: 2.27 1.52 1.16 0.40 1.16 0.40 null null

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
23	13: 2:28	1.17	-0.33	0.81	-0.56	0.81	-0.56	null	null
25	13:19: 9	0.29	-1.91	0.89	-0.20	0.89	-0.20	null	null
24	13:46:18	3.89	2.34	1.89	0.38	1.89	0.38	null	null
14	14:24:32	1.99	-0.10	0.63	0.38	0.63	0.38	null	null

Line: DS02-210  
LCT line number: 35  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 8.10 6.20 2.31 1.02 2.31 1.02 2.97 2.97  
Mean-Mistie BSA ASA: -2.95 0.00 -1.27 0.00 -1.27 0.00 0.26 0.26  
Mean-Abs-Mistie BSA ASA: 4.70 3.84 1.38 0.51 1.38 0.51 1.75 1.75  
Rms-Mistie BSA ASA: 5.25 4.35 1.57 0.59 1.57 0.60 2.05 2.05

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
14	22:17: 9	3.51	6.20	-2.31	-0.24	-2.31	-0.24	2.15	2.15
24	22:56: 1	-5.40	-2.17	0.21	1.02	0.21	1.02	-2.97	-2.97
25	23:24:30	-8.10	-5.52	-1.68	-0.44	-1.68	-0.44	-0.01	-0.01
23	23:40:16	-1.80	1.48	-1.30	-0.35	-1.30	-0.35	1.86	1.86

Line: DS02-209A  
LCT line number: 36  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 3.04 2.62 1.45 0.33 1.45 0.33 2.67 2.67  
Mean-Mistie BSA ASA: -0.78 0.00 -0.41 0.00 -0.41 0.00 0.96 0.96  
Mean-Abs-Mistie BSA ASA: 1.15 1.31 0.60 0.20 0.60 0.20 1.11 1.11  
Rms-Mistie BSA ASA: 1.61 1.55 0.80 0.22 0.80 0.22 1.49 1.49

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
23	4:41: 6	-0.83	0.29	-0.04	0.06	-0.04	0.06	-0.28	-0.28
25	4:56: 8	-3.04	-2.62	-0.54	-0.16	-0.54	-0.16	0.19	0.19
24	5:23:11	0.06	1.12	0.38	0.33	0.38	0.33	1.27	1.27
14	5:59:33	0.69	1.21	-1.45	-0.23	-1.45	-0.23	2.67	2.67

Line: DS02-211  
LCT line number: 37  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 20.51 14.73 2.49 0.94 2.49 0.94 3.00 3.00  
Mean-Mistie BSA ASA: -1.67 0.00 -1.46 0.00 -1.46 0.00 -0.18 -0.18  
Mean-Abs-Mistie BSA ASA: 5.20 5.85 1.46 0.48 1.46 0.48 1.10 1.10  
Rms-Mistie BSA ASA: 8.86 7.70 1.70 0.57 1.70 0.57 1.42 1.42

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
14	9:44:48	0.31	-2.38	-2.16	0.22	-2.16	0.22	-0.50	-0.50
24	10:23:25	-1.77	-3.92	-0.76	0.35	-0.76	0.35	0.46	0.46
25	10:52:28	1.04	-1.76	-2.28	-0.74	-2.28	-0.74	0.47	0.47
23	11: 7:18	null	null	-1.49	-0.23	-1.49	-0.23	0.95	0.95
72	12: 4:35	-1.71	1.67	-2.49	-0.94	-2.49	-0.94	-1.46	-1.46
71	12:52:51	-0.05	4.08	-2.06	0.90	-2.06	0.90	1.83	1.83
1035	13:29:25	-20.51	-12.42	-0.11	0.29	-0.11	0.29	-3.00	-3.00
75	14:27:31	11.00	14.73	-0.33	0.15	-0.33	0.15	-0.16	-0.16

Line: OR01-W03  
LCT line number: 38  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 1.34 0.00 0.07 0.00 0.07 0.00 null null  
Mean-Mistie BSA ASA: -1.34 0.00 -0.07 0.00 -0.07 0.00 null null  
Mean-Abs-Mistie BSA ASA: 1.34 0.00 0.07 0.00 0.07 0.00 null null  
Rms-Mistie BSA ASA: 1.34 0.00 0.07 0.00 0.07 0.00 null null

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
74	19:30:56	-1.34	0.00	-0.07	0.00	-0.07	0.00	null	null

Line: OR01-W05

LCT line number: 39  
 Line Summary Statistics:  
 Max-Abs-Mistie BSA ASA: 3.57 0.42 1.56 0.08 1.56 0.08 1.16 1.16  
 Mean-Mistie BSA ASA: -2.94 0.00 -1.56 0.00 -1.56 0.00 0.50 0.50  
 Mean-Abs-Mistie BSA ASA: 2.94 0.42 1.56 0.08 1.56 0.08 0.66 0.66  
 Rms-Mistie BSA ASA: 3.01 0.42 1.56 0.08 1.56 0.08 0.83 0.83

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
74	1:39:12	-3.57	0.42	-1.56	0.08	-1.56	0.08	1.16	1.16
72	2:44:55	-2.32	-0.42	-1.56	-0.08	-1.56	-0.08	-0.16	-0.16

Line: OR01-03  
 LCT line number: 40  
 Line Summary Statistics:  
 Max-Abs-Mistie BSA ASA: 2.80 3.43 2.43 0.38 2.43 0.38 10.18 10.18  
 Mean-Mistie BSA ASA: -1.05 0.00 -1.43 0.00 -1.43 0.00 2.78 2.78  
 Mean-Abs-Mistie BSA ASA: 1.05 2.29 1.43 0.25 1.43 0.25 4.02 4.02  
 Rms-Mistie BSA ASA: 1.62 2.45 1.60 0.31 1.60 0.31 5.98 5.98

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
72	6:56:16	-2.80	-3.43	-1.03	-0.38	-1.03	-0.38	-1.86	-1.86
74	7:56:12	-0.19	1.27	-0.81	0.01	-0.81	0.01	0.02	0.02
13	9:34:59	-0.17	2.16	-2.43	0.37	-2.43	0.37	10.18	10.18

Line: ORV01-03  
 LCT line number: 41  
 Line Summary Statistics:  
 Max-Abs-Mistie BSA ASA: 0.95 0.60 1.82 0.52 1.82 0.52 1.08 1.08  
 Mean-Mistie BSA ASA: -0.15 0.00 -0.74 0.00 -0.74 0.00 -0.40 -0.40  
 Mean-Abs-Mistie BSA ASA: 0.78 0.40 1.06 0.34 1.06 0.34 1.04 1.04  
 Rms-Mistie BSA ASA: 0.79 0.43 1.20 0.42 1.20 0.42 1.04 1.04

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
7	11:31:16	-0.74	0.60	0.49	0.52	0.49	0.52	-1.08	-1.08
8	12: 3:24	-0.65	-0.18	-1.82	-0.50	-1.82	-0.50	0.96	0.96
9	12:55:15	0.95	-0.42	-0.88	-0.01	-0.88	-0.01	-1.08	-1.08

Line: ORV01-07A  
 LCT line number: 42  
 Line Summary Statistics:  
 Max-Abs-Mistie BSA ASA: 0.98 0.54 2.36 0.54 2.36 0.54 6.14 6.14  
 Mean-Mistie BSA ASA: -0.30 0.00 -1.82 0.00 -1.82 0.00 -0.13 -0.13  
 Mean-Abs-Mistie BSA ASA: 0.62 0.29 1.82 0.22 1.82 0.22 2.65 2.65  
 Rms-Mistie BSA ASA: 0.69 0.36 1.92 0.29 1.92 0.29 3.45 3.45

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
9	16:46: 9	0.83	-0.54	-2.36	-0.54	-2.36	-0.54	6.14	6.14
10	17:16:45	-0.46	-0.34	-2.35	0.14	-2.35	0.14	-4.25	-4.25
8	17:41: 7	-0.44	0.02	-2.15	0.12	-2.15	0.12	0.14	0.14
7	18:14:10	-0.90	0.44	-0.99	-0.01	-0.99	-0.01	-1.02	-1.02
6	18:54:21	-0.98	0.42	-0.95	0.39	-0.95	0.39	-1.67	-1.67
11	19:49:51	0.12	0.00	-2.14	-0.10	-2.14	-0.10	null	null

Line: ORV01-05  
 LCT line number: 43  
 Line Summary Statistics:  
 Max-Abs-Mistie BSA ASA: 0.83 1.11 1.88 0.53 1.88 0.53 2.00 2.00  
 Mean-Mistie BSA ASA: -0.22 0.00 -0.69 0.00 -0.69 0.00 0.67 0.67  
 Mean-Abs-Mistie BSA ASA: 0.63 0.70 0.79 0.27 0.79 0.27 1.33 1.33  
 Rms-Mistie BSA ASA: 0.71 0.76 1.02 0.32 1.02 0.32 1.41 1.41

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
6	23:40:25	-0.06	1.11	-0.44	-0.01	-0.44	-0.01	-1.33	-1.33
7	24:18:54	-0.80	0.30	0.20	0.26	0.20	0.26	2.00	2.00
8	24:51:33	-0.83	-0.61	-1.88	-0.53	-1.88	-0.53	1.28	1.28
9	25:46:46	0.81	-0.80	-0.63	0.27	-0.63	0.27	0.71	0.71

Line: OR01-09  
 LCT line number: 44  
 Line Summary Statistics:  
 Max-Abs-Mistie BSA ASA: 28.93 24.81 3.69 0.54 3.69 0.54 8.53 0.96  
 Mean-Mistie BSA ASA: -4.20 0.00 -1.51 0.00 -1.51 0.00 2.25 0.00  
 Mean-Abs-Mistie BSA ASA: 4.34 4.67 1.63 0.28 1.63 0.28 3.63 0.37  
 Rms-Mistie BSA ASA: 9.23 7.99 1.97 0.32 1.97 0.32 4.24 0.45

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
9	5:43:13	0.67	2.63	-1.74	-0.47	-1.74	-0.47	8.53	0.37
10	6:14: 2	-1.10	2.36	-1.85	0.11	-1.85	0.11	0.33	-0.68
8	6:38:28	-0.85	2.95	-1.50	0.23	-1.50	0.23	-1.44	0.34
7	7:10:41	-0.93	3.74	-0.28	0.16	-0.28	0.16	-3.33	-0.07
6	7:52:36	-1.45	3.29	-0.64	0.16	-0.64	0.16	1.32	0.11
12	8:30:15	-0.86	3.10	-3.68	-0.35	-3.68	-0.35	5.23	-0.55
13	9:13:43	-0.70	4.28	-3.69	-0.18	-3.69	-0.18	4.64	0.96
48	10: 1:43	0.07	3.37	-0.43	0.54	-0.43	0.54	3.37	-0.33
74	10:49:40	-28.93	-24.81	-1.60	-0.07	-1.60	-0.07	3.68	-0.38
60	11:23:36	-9.26	-0.03	0.67	0.33	0.67	0.33	-2.84	0.07
72	11:44:20	-2.88	-0.86	-1.83	-0.46	-1.83	-0.46	5.27	0.17

Line: OR01-15  
 LCT line number: 45  
 Line Summary Statistics:  
 Max-Abs-Mistie BSA ASA: 2.07 0.94 3.20 0.80 3.20 0.80 11.55 11.55  
 Mean-Mistie BSA ASA: -0.09 0.00 -0.98 0.00 -0.98 0.00 2.62 2.62  
 Mean-Abs-Mistie BSA ASA: 0.68 0.35 1.26 0.43 1.26 0.43 2.62 2.62  
 Rms-Mistie BSA ASA: 0.92 0.46 1.63 0.48 1.63 0.48 4.63 4.63

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
72	14:44:12	2.07	0.21	-0.96	-0.31	-0.96	-0.31	3.67	3.67

74	15:36: 9	0.01	0.24	-1.61	-0.80	-1.61	-0.80	0.14	0.14
48	16:25:23	-0.36	-0.94	0.34	0.59	0.34	0.59	0.10	0.10
13	17:11: 1	-0.49	0.61	-3.20	-0.40	-3.20	-0.40	11.55	11.55
12	17:53:44	-0.35	-0.27	-2.10	0.50	-2.10	0.50	1.47	1.47
6	18:33:15	-0.72	0.14	0.08	0.16	0.08	0.16	0.60	0.60
7	19:21:35	-0.78	0.01	0.55	0.27	0.55	0.27	0.85	0.85

Line: OR01-07

LCT line number: 46

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	2.25	2.14	2.02	0.50	2.02	0.50	1.92	1.92
Mean-Mistie BSA ASA:	-1.23	0.00	-1.28	0.00	-1.28	0.00	-0.53	-0.53
Mean-Abs-Mistie BSA ASA:	1.23	1.43	1.28	0.33	1.28	0.33	1.71	1.71
Rms-Mistie BSA ASA:	1.43	1.56	1.42	0.38	1.42	0.38	1.72	1.72

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
48	0:41:11	-0.79	0.60	-0.53	0.43	-0.53	0.43	-1.43	-1.43
74	1:29:19	-0.66	1.54	-2.02	-0.50	-2.02	-0.50	-1.92	-1.92
72	2:25:11	-2.25	-2.14	-1.29	0.06	-1.29	0.06	1.77	1.77

Line: OR01-05

LCT line number: 47

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	0.84	0.01	0.29	0.00	0.29	0.01	3.75	3.75
Mean-Mistie BSA ASA:	-0.45	0.00	-0.01	0.00	-0.01	0.00	-3.24	-3.24
Mean-Abs-Mistie BSA ASA:	0.45	0.01	0.28	0.00	0.28	0.01	3.24	3.24
Rms-Mistie BSA ASA:	0.60	0.01	0.28	0.00	0.28	0.01	3.28	3.28

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
74	6:32:25	-0.84	0.01	-0.29	0.00	-0.29	-0.01	-3.75	-3.75
48	7:18: 5	-0.05	-0.01	0.27	0.00	0.27	0.01	-2.74	-2.74

Line: OR01-10

LCT line number: 48

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	1.10	8.56	2.14	0.81	2.14	0.81	5.44	5.44
Mean-Mistie BSA ASA:	0.34	0.00	0.60	0.00	0.60	0.00	0.27	0.34
Mean-Abs-Mistie BSA ASA:	0.44	2.83	0.68	0.34	0.68	0.34	1.81	1.78
Rms-Mistie BSA ASA:	0.57	3.63	0.86	0.42	0.86	0.42	2.29	2.26

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
47	11: 1:20	0.05	0.01	-0.27	0.00	-0.27	-0.01	2.74	2.74
46	11:16:30	0.79	-0.60	0.53	-0.43	0.53	-0.43	1.43	1.43
44	11:33:19	-0.07	-3.37	0.43	-0.54	0.43	-0.54	-3.37	0.33
21	11:46:56	0.55	0.98	-0.15	-0.16	-0.15	-0.16	-1.95	-1.95
22	12: 1:24	0.63	1.61	0.85	-0.12	0.85	-0.12	2.08	2.08
45	12:21:34	0.36	0.94	-0.34	-0.59	-0.34	-0.59	-0.10	-0.10
20	12:41:15	1.00	-1.16	0.37	-0.20	0.37	-0.20	null	null
1027	13: 3:33	-0.17	2.89	0.32	-0.04	0.32	-0.04	5.44	5.44
67	13:16: 1	1.10	1.11	0.62	-0.47	0.62	-0.47	1.22	1.22
65	13:35:17	0.87	1.33	0.42	-0.61	0.42	-0.61	1.17	1.17
19	13:59:25	-0.03	6.25	0.44	0.24	0.44	0.24	-0.06	-0.06
64	14:25:57	-0.52	1.72	0.61	0.22	0.61	0.22	-2.32	-2.50
79	14:55: 8	0.00	8.56	2.14	0.81	2.14	0.81	-0.32	-0.32
69	15:24: 5	0.51	-4.63	1.12	0.11	1.12	0.11	-0.49	-2.85
78	15:55: 2	0.78	1.49	0.18	-0.04	0.18	-0.04	-1.77	-1.77
77	16:23:49	-0.15	-3.77	1.83	0.71	1.83	0.71	-0.35	-0.35
49	16:58:52	0.19	-6.70	1.23	0.65	1.23	0.65	null	null
76	16:58:57	0.66	-3.91	0.68	0.38	0.68	0.38	3.65	3.65
5	17:32:10	-0.02	-2.76	0.36	0.08	0.36	0.08	-2.35	-2.35

Line: OR01-35

LCT line number: 49

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	13.66	12.52	2.08	0.65	2.08	0.65	null	null
Mean-Mistie BSA ASA:	-3.39	0.00	-1.29	0.00	-1.29	0.00	null	null
Mean-Abs-Mistie BSA ASA:	4.99	6.50	1.38	0.24	1.38	0.24	null	null
Rms-Mistie BSA ASA:	7.38	7.14	1.53	0.33	1.53	0.33	null	null

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
48	1:47:50	-0.19	6.70	-1.23	-0.65	-1.23	-0.65	null	null
73	2:41:11	0.08	4.19	-1.78	0.03	-1.78	0.03	null	null
72	3:31:32	-0.42	5.18	-0.88	0.08	-0.88	0.08	null	null
51	4:29:12	-13.66	-12.52	-2.08	0.22	-2.08	0.22	null	null
50	5:23:18	-10.87	-6.97	-2.02	0.39	-2.02	0.39	null	null
1026	5:37: 6	4.72	3.42	0.27	-0.07	0.27	-0.07	null	null

Line: DS02-108

LCT line number: 50

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	17.00	12.98	3.26	0.39	3.26	0.39	31.72	31.72
Mean-Mistie BSA ASA:	0.24	0.00	2.59	0.00	2.59	0.00	10.92	10.92
Mean-Abs-Mistie BSA ASA:	9.61	6.70	2.59	0.18	2.59	0.18	12.12	12.12
Rms-Mistie BSA ASA:	10.90	7.89	2.63	0.22	2.63	0.22	16.66	16.66

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
4	10:40:24	-15.77	-12.98	2.93	-0.04	2.93	-0.04	-1.82	-1.82
85	10:40:51	-17.00	-10.46	2.66	-0.10	2.66	-0.10	-1.80	-1.80
5	11:15:28	9.24	9.49	2.01	-0.11	2.01	-0.11	20.33	20.33
49	11:51: 2	10.87	6.97	2.02	-0.39	2.02	-0.39	null	null
76	11:51: 5	4.58	3.00	2.23	0.10	2.23	0.10	15.35	15.35
1026	11:51:11	8.20	3.01	2.99	0.23	2.99	0.23	31.72	31.72
77	12:25:55	1.60	0.97	3.26	0.30	3.26	0.30	1.73	1.73

Line: OR01-16

LCT line number: 51

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	61.07	46.77	3.37	0.78	3.37	0.78	2.48	2.48
Mean-Mistie BSA ASA:	-3.89	0.00	1.93	0.00	1.93	0.00	0.13	-0.03
Mean-Abs-Mistie BSA ASA:	9.36	10.19	2.15	0.41	2.15	0.41	1.10	0.94
Rms-Mistie BSA ASA:	19.96	16.13	2.28	0.46	2.28	0.46	1.29	1.16

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
79	17:34:52	-61.07	-46.77	2.57	-0.49	2.56	-0.49	0.35	0.35
69	17:58:59	-4.78	-4.17	2.93	0.20	2.93	0.20	1.72	0.23
78	18:26:36	3.54	9.99	1.24	-0.70	1.24	-0.70	-1.26	-1.26
77	18:54:57	3.58	5.71	2.38	-0.47	2.38	-0.47	-1.04	-1.04
76	19:28:40	4.32	5.50	1.88	-0.15	1.88	-0.15	1.01	1.01
49	19:28:41	13.66	12.52	2.08	-0.22	2.08	-0.22	null	null
5	20: 3:31	0.40	3.40	2.78	0.78	2.78	0.78	2.48	2.48
4	20:38:56	-0.44	5.11	3.37	0.51	3.37	0.51	-1.26	-1.26
3	21:13:10	1.35	5.18	1.14	0.39	1.14	0.39	-0.73	-0.73
52	21:39:10	0.49	3.54	-1.12	0.15	-1.12	0.15	-0.07	-0.07

Line: OR01-16A

LCT line number: 52

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	4.07	3.54	4.41	0.70	4.41	0.70	3.38	3.38
Mean-Mistie BSA ASA:	-1.78	0.00	2.52	0.00	2.52	0.00	0.44	0.44
Mean-Abs-Mistie BSA ASA:	1.78	2.34	2.52	0.48	2.52	0.48	1.50	1.50
Rms-Mistie BSA ASA:	2.16	2.43	2.81	0.52	2.81	0.52	1.91	1.91

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
51	5:55:12	-0.49	-3.54	1.12	-0.15	1.12	-0.15	0.07	0.07
2	6: 6:36	-1.68	1.73	3.55	0.61	3.55	0.61	-2.13	-2.13
1	6:43: 4	-1.44	-2.31	1.53	-0.35	1.53	-0.35	-0.51	-0.51
1025	7:18:48	-4.07	2.38	4.41	0.59	4.41	0.59	1.39	1.39
81	7:49:32	-1.23	1.74	1.98	-0.70	1.98	-0.70	3.38	3.38

Line: OR01-18

LCT line number: 53

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	23.27	21.00	4.25	0.49	4.25	0.49	11.65	11.65
Mean-Mistie BSA ASA:	5.83	0.00	3.32	0.00	3.32	0.00	-1.10	-1.10
Mean-Abs-Mistie BSA ASA:	6.66	8.09	3.32	0.22	3.32	0.22	3.63	3.63
Rms-Mistie BSA ASA:	10.23	9.77	3.39	0.26	3.39	0.26	5.03	5.03

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
81	20:46:55	-1.23	-6.77	3.27	0.36	3.27	0.36	-1.50	-1.50
1025	21:18:57	-1.40	-3.46	3.77	-0.29	3.77	-0.29	0.77	0.77
1	21:57: 0	-0.69	-10.07	2.30	0.19	2.30	0.19	-3.43	-3.43
2	22:36:33	7.56	2.46	3.39	0.21	3.39	0.21	-11.65	-11.65
3	23:12:59	3.22	-4.51	2.35	0.09	2.35	0.09	0.91	0.91
85	23:46:39	23.27	21.00	4.19	0.04	4.19	0.04	null	null
4	23:46:46	14.92	8.91	4.25	-0.11	4.25	-0.11	3.20	3.20
5	24:23:27	1.00	-7.55	3.02	-0.49	3.02	-0.49	3.96	3.96

Line: DS02-108A

LCT line number: 54

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	19.52	20.99	4.38	0.92	4.38	0.92	2.61	4.31
Mean-Mistie BSA ASA:	-1.08	0.00	2.55	0.00	2.55	0.00	0.15	1.23
Mean-Abs-Mistie BSA ASA:	7.01	8.32	2.55	0.62	2.55	0.62	1.52	1.97
Rms-Mistie BSA ASA:	10.57	10.75	2.76	0.70	2.76	0.70	1.78	2.34

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
77	5:21:59	1.24	-4.80	3.29	0.42	3.29	0.42	-1.84	-1.84
78	5:51: 9	-19.27	-20.99	1.05	-0.91	1.05	-0.91	0.04	0.04
69	6:19:37	19.52	11.96	2.58	-0.17	2.58	-0.17	0.82	1.87
68	6:44:35	-3.79	13.52	4.38	0.90	4.38	0.90	2.61	2.61
64	7:15:18	-1.93	-2.10	1.22	-0.92	1.22	-0.92	-2.24	4.31
19	7:44: 6	-0.22	3.64	2.80	0.85	2.80	0.85	2.38	2.38
62	8:14:51	-3.09	-1.23	2.53	-0.18	2.53	-0.18	-0.72	-0.72

Line: DS02-107

LCT line number: 55

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	6.64	7.44	3.88	0.58	3.88	0.58	8.93	8.93
Mean-Mistie BSA ASA:	-0.68	0.00	2.87	0.00	2.87	0.00	0.74	1.78
Mean-Abs-Mistie BSA ASA:	1.98	5.14	2.87	0.26	2.87	0.26	2.90	2.32
Rms-Mistie BSA ASA:	3.08	5.46	2.98	0.36	2.98	0.36	4.40	4.04

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
64	14: 8:36	-6.64	-5.40	2.53	-0.03	2.53	-0.03	-4.03	0.99
19	14:36:47	1.42	6.70	1.79	-0.58	1.79	-0.58	-0.56	-0.56
62	15: 7:16	0.38	3.65	3.69	0.56	3.69	0.56	-0.80	-0.80
1027	15:33:31	0.42	2.48	2.48	-0.04	2.48	-0.04	8.93	8.93
63	15:51:53	1.01	-7.44	3.88	0.09	3.88	0.09	0.16	0.32

Line: DS02-215

LCT line number: 56

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	20.76	20.50	1.89	0.60	1.89	0.60	null	null
Mean-Mistie BSA ASA:	-0.05	0.00	0.62	0.00	0.62	0.00	null	null
Mean-Abs-Mistie BSA ASA:	6.20	6.53	1.11	0.25	1.11	0.25	null	null
Rms-Mistie BSA ASA:	9.75	9.75	1.26	0.31	1.26	0.31	null	null

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1003	21:22:58	-20.76	-20.50	1.46	0.25	1.46	0.25	null	null
1004	22:58:38	14.85	14.76	1.89	-0.60	1.89	-0.60	null	null
75	23:36:45	-1.15	-2.34	1.11	0.04	1.11	0.04	null	null
1035	24:35:48	0.85	4.03	1.42	0.26	1.42	0.26	null	null
71	25: 2:53	2.05	1.27	-1.46	-0.05	-1.46	-0.05	null	null
72	25:49:32	2.48	0.94	-0.24	-0.24	-0.24	-0.24	null	null
74	26:50:45	1.28	1.84	0.18	0.34	0.18	0.34	null	null

Line: DS02-218

LCT line number: 57

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	6.67	7.37	3.12	0.71	3.12	0.71	3.28	3.28
Mean-Mistie BSA ASA:	-1.21	0.00	-0.35	0.00	-0.35	0.00	0.18	-0.50
Mean-Abs-Mistie BSA ASA:	3.07	3.73	0.99	0.40	0.99	0.40	1.93	1.40

Rms-Mistie BSA ASA:		3.66	4.28	1.43	0.49	1.43	0.49	2.27	1.84
X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
72	5:37:18	-1.55	-1.84	-0.39	0.71	-0.39	0.71	null	null
71	6:28:27	-4.63	-4.18	-3.12	-0.61	-3.12	-0.61	-0.93	-0.93
1035	6:58:43	2.96	7.37	0.55	0.48	0.54	0.48	-3.28	-3.28
75	7:59:35	1.33	1.38	-0.02	0.01	-0.02	0.01	2.25	2.25
1004	9: 2:17	1.29	2.43	1.37	-0.02	1.37	-0.02	3.01	-0.09
1003	10:41:23	-6.67	-5.17	-0.47	-0.58	-0.47	-0.58	-0.17	-0.44

Line: DS02-216

LCT line number: 58

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	23.69	26.20	2.44	1.03	2.44	1.03	7.01	3.14
Mean-Mistie BSA ASA:	0.61	0.00	-0.57	0.00	-0.57	0.00	-1.73	0.27
Mean-Abs-Mistie BSA ASA:	10.01	10.46	1.04	0.43	1.04	0.43	2.80	1.55
Rms-Mistie BSA ASA:	12.38	13.49	1.37	0.56	1.37	0.56	3.82	1.82

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1003	13:51:28	-8.86	-9.27	-0.47	-0.48	-0.47	-0.48	-6.38	-2.03
1004	15:24:57	4.05	3.28	1.32	0.03	1.32	0.03	-7.01	2.62
75	16: 9:15	-6.03	-7.89	0.25	0.37	0.25	0.37	0.61	0.61
1035	17: 7:48	23.69	26.20	0.06	0.09	0.06	0.09	-0.81	-0.81
71	17:35:27	-18.01	-19.46	-2.44	0.16	-2.44	0.16	-0.66	-0.66
72	18:24:12	2.23	0.03	-2.22	-1.03	-2.22	-1.03	3.14	3.14
74	19:26:33	7.20	7.10	-0.50	0.86	-0.50	0.86	-0.97	-0.97

Line: OR01DS217

LCT line number: 59

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	16.43	14.85	3.70	0.74	3.70	0.74	7.85	7.85
Mean-Mistie BSA ASA:	-2.83	0.00	-1.30	0.00	-1.30	0.00	-1.77	-0.98
Mean-Abs-Mistie BSA ASA:	5.03	4.56	1.49	0.32	1.49	0.32	3.03	2.76
Rms-Mistie BSA ASA:	7.20	6.65	1.89	0.39	1.89	0.39	3.88	3.77

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
74	1:41: 1	-0.78	2.56	-1.58	0.50	-1.58	0.51	4.16	4.16
72	2:38: 7	2.20	3.44	-2.66	-0.74	-2.66	-0.74	-0.90	-0.90
71	3:26:23	-0.51	1.48	-3.70	-0.37	-3.70	-0.37	0.26	0.26
1035	3:53:38	-7.07	-1.12	-0.48	0.28	-0.48	0.28	-7.85	-7.85
75	4:50:38	-16.43	-14.85	-0.74	0.12	-0.74	0.12	-4.01	-4.01
1004	5:43: 9	5.50	8.18	0.66	0.10	0.66	0.10	-2.78	-0.35
1003	7:18: 5	-2.72	0.31	-0.63	0.09	-0.63	0.09	-1.27	1.81

Line: DS02-219

LCT line number: 60

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	24.26	17.39	3.20	0.44	3.20	0.44	4.04	4.04
Mean-Mistie BSA ASA:	6.21	0.00	-0.87	0.00	-0.87	0.00	0.75	-0.65
Mean-Abs-Mistie BSA ASA:	6.21	5.38	1.22	0.23	1.22	0.22	1.98	1.77
Rms-Mistie BSA ASA:	10.02	7.55	1.55	0.25	1.55	0.25	2.50	2.51

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1003	10:48: 8	0.20	-5.23	-0.31	0.19	-0.31	0.19	1.59	-0.63
1004	12:13: 2	2.98	-2.80	1.21	0.44	1.21	0.44	1.20	-3.45
75	13:16:22	24.26	17.39	-0.49	0.16	-0.49	0.15	-0.14	-0.14
1035	14:11:40	3.90	1.39	-0.70	-0.15	-0.70	-0.15	-4.04	-4.04
71	14:39:33	1.79	-4.68	-3.20	-0.08	-3.20	-0.08	-0.16	-0.16
72	15:27:52	1.11	-6.11	-1.94	-0.23	-1.94	-0.23	3.93	3.93
44	15:47: 7	9.26	0.03	-0.67	-0.33	-0.67	-0.33	2.84	-0.07

Line: DS02-220

LCT line number: 61

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	11.67	11.19	3.74	0.29	3.74	0.29	5.32	5.32
Mean-Mistie BSA ASA:	3.30	0.00	-1.48	0.00	-1.48	0.00	-0.87	-1.66
Mean-Abs-Mistie BSA ASA:	3.32	4.04	1.54	0.19	1.54	0.19	2.63	2.40
Rms-Mistie BSA ASA:	5.20	5.38	1.89	0.22	1.89	0.22	3.08	2.83

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
22	18:46:32	3.85	0.93	-1.12	-0.03	-1.12	-0.03	0.75	0.75
71	19:14:17	0.52	-3.92	-3.74	0.12	-3.74	0.12	-5.32	-5.32
1035	19:44:29	11.67	11.19	-1.56	-0.27	-1.56	-0.27	-3.27	-3.27
75	20:43:26	-0.04	-4.89	-1.68	-0.29	-1.68	-0.29	-1.93	-1.93
1004	21:59:35	3.24	-0.51	0.20	0.17	0.20	0.17	0.99	-1.63
1003	23:29:41	0.60	-2.80	-0.96	0.29	-0.96	0.29	3.54	1.47

Line: DS02-222

LCT line number: 62

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	25.43	24.58	3.69	0.60	3.69	0.60	4.64	4.64
Mean-Mistie BSA ASA:	3.47	0.00	-1.15	0.00	-1.15	0.00	-1.45	-0.72
Mean-Abs-Mistie BSA ASA:	5.95	7.38	1.54	0.37	1.54	0.37	2.45	1.86
Rms-Mistie BSA ASA:	10.21	10.68	1.90	0.42	1.90	0.42	2.87	2.28

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1004	4:12: 1	-7.95	-12.06	1.03	-0.09	1.03	-0.09	-4.63	0.49
75	5:30: 9	1.79	-3.43	0.31	0.60	0.31	0.60	-2.41	-2.41
1035	6:28: 3	25.43	24.58	-0.67	-0.47	-0.67	-0.47	-4.64	-4.64
54	6:53:22	3.09	1.23	-2.53	0.18	-2.53	0.18	0.72	0.72
55	7: 9:54	-0.38	-3.65	-3.69	-0.56	-3.69	-0.56	0.80	0.80
72	8: 3:15	2.69	-2.86	-0.83	0.53	-0.83	0.53	1.96	1.96
74	8:49:18	-0.34	-3.80	-1.71	-0.19	-1.71	-0.19	-1.97	-1.97

Line: DS02-221

LCT line number: 63

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	47.71	36.83	3.88	0.60	3.88	0.60	6.81	0.98
Mean-Mistie BSA ASA:	-7.56	0.00	-1.29	0.00	-1.29	0.00	-0.53	0.20
Mean-Abs-Mistie BSA ASA:	9.00	10.52	1.34	0.34	1.34	0.34	2.61	0.41

Rms-Mistie BSA ASA:		18.27	15.41	1.74	0.38	1.74	0.38	3.39	0.49
X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
20	11:12:47	-2.38	2.92	-0.48	0.58	-0.48	0.58	null	null
72	11:24:27	-6.11	0.06	-1.41	0.60	-1.41	0.60	3.59	0.49
55	12:15:44	-1.01	7.44	-3.88	-0.09	-3.88	-0.09	-0.16	-0.32
1035	12:45: 6	-47.71	-36.83	-1.04	-0.19	-1.04	-0.19	1.54	0.98
75	13:42: 8	1.44	7.95	-1.36	-0.41	-1.36	-0.41	1.10	-0.30
1004	15: 0:33	3.61	11.22	0.19	-0.28	0.19	-0.28	-2.45	0.08
1003	16:24:50	-0.73	7.23	-1.02	-0.21	-1.02	-0.21	-6.81	0.27

Line: OR25DS224  
LCT line number: 64  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 6.64 7.02 3.61 0.92 3.61 0.92 12.20 5.91  
Mean-Mistie BSA ASA: 1.38 0.00 -0.75 0.00 -0.75 0.00 2.20 -0.02  
Mean-Abs-Mistie BSA ASA: 2.21 2.53 1.23 0.41 1.23 0.41 4.07 2.19  
Rms-Mistie BSA ASA: 3.09 3.37 1.59 0.49 1.59 0.49 4.99 3.04

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1003	20:17: 6	-4.47	-6.21	-0.16	-0.58	-0.16	-0.58	6.41	0.09
1004	21:40:50	3.91	1.82	1.52	-0.18	1.52	-0.18	-0.80	-0.04
75	23: 0:51	0.96	-2.23	0.74	0.46	0.74	0.46	3.72	-1.18
1035	23:59:49	5.84	7.02	0.87	0.49	0.87	0.49	12.20	5.32
54	24:28:38	1.93	2.10	-1.22	0.92	-1.22	0.92	2.24	-4.31
55	24:59:40	6.64	5.40	-2.53	0.03	-2.53	0.03	4.03	-0.99
72	25:53:25	0.13	-3.40	-1.15	-0.37	-1.15	-0.37	2.09	0.94
74	26:37:42	1.25	-0.19	-1.05	-0.11	-1.05	-0.11	-0.76	-0.03
48	27:27:51	0.52	-1.72	-0.61	-0.22	-0.61	-0.22	2.32	2.50
13	28: 3:57	0.00	-0.57	-2.33	0.60	-2.33	0.60	-5.36	-5.91
12	28:44:23	1.72	0.13	-3.61	-0.87	-3.61	-0.87	4.47	4.98
6	29:28:15	0.42	-0.39	-0.06	0.15	-0.06	0.15	-5.24	-1.87
7	30:29:30	-0.88	-1.76	-0.15	-0.31	-0.15	-0.31	3.30	0.25

Line: OR01-21  
LCT line number: 65  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 1.35 1.33 4.22 0.65 4.22 0.65 13.70 13.70  
Mean-Mistie BSA ASA: -0.45 0.00 -2.09 0.00 -2.09 0.00 -2.07 -2.07  
Mean-Abs-Mistie BSA ASA: 0.97 0.73 2.09 0.35 2.09 0.35 3.88 3.88  
Rms-Mistie BSA ASA: 1.05 0.88 2.55 0.42 2.55 0.42 6.30 6.30

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
6	10: 1:23	-1.32	-0.36	-0.72	0.13	-0.72	0.13	1.48	1.48
12	10:45: 8	1.08	1.28	-3.26	0.12	-3.26	0.12	2.69	2.69
13	11:27:40	-1.35	-0.14	-4.22	-0.65	-4.22	-0.65	-13.70	-13.70
48	12: 8:59	-0.87	-1.33	-0.42	0.61	-0.42	0.61	-1.17	-1.17
74	12:59:17	0.21	0.55	-1.80	-0.21	-1.80	-0.21	0.37	0.37

Line: OR01-19A  
LCT line number: 66  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 1.91 1.16 3.36 0.56 3.36 0.56 12.22 12.22  
Mean-Mistie BSA ASA: -0.40 0.00 -1.55 0.00 -1.55 0.00 3.98 3.98  
Mean-Abs-Mistie BSA ASA: 0.73 0.60 1.55 0.28 1.55 0.28 4.90 4.90  
Rms-Mistie BSA ASA: 0.89 0.73 1.88 0.34 1.88 0.34 6.76 6.76

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
13	17: 9:22	-0.53	0.29	-3.36	-0.06	-3.36	-0.06	11.28	11.28
1027	17:32:33	-1.91	0.30	-0.44	-0.04	-0.44	-0.04	-1.56	-1.56
12	17:50:38	0.64	0.44	-2.96	0.15	-2.96	0.15	1.55	1.55
6	18:31: 6	0.51	1.08	-0.94	-0.35	-0.94	-0.35	-0.16	-0.16
7	19:23:28	-0.51	-0.01	-0.74	-0.52	-0.74	-0.52	-1.50	-1.50
8	19:58:50	-0.80	-1.16	-0.96	0.56	-0.96	0.56	12.22	12.22
10	20:25:36	-0.23	-0.93	-1.48	0.26	-1.48	0.26	6.01	6.01

Line: OR01-19B  
LCT line number: 67  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 1.25 1.11 4.08 0.47 4.08 0.47 3.73 3.73  
Mean-Mistie BSA ASA: -0.77 0.00 -2.45 0.00 -2.45 0.00 -0.20 -0.20  
Mean-Abs-Mistie BSA ASA: 0.84 0.67 2.45 0.45 2.45 0.45 2.27 2.27  
Rms-Mistie BSA ASA: 0.94 0.76 2.76 0.45 2.76 0.45 2.56 2.56

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
12	0:48:47	-0.88	-0.23	-3.01	0.43	-3.01	0.43	1.00	1.00
13	1:30:50	-1.25	0.41	-4.08	-0.45	-4.08	-0.45	3.14	3.14
48	2:11:15	-1.10	-1.11	-0.62	0.47	-0.62	0.47	-1.22	-1.22
74	3: 0:49	0.14	0.93	-2.10	-0.45	-2.10	-0.45	-3.73	-3.73

Line: DS02-225  
LCT line number: 68  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 65.54 46.32 4.38 0.90 4.38 0.90 9.92 9.92  
Mean-Mistie BSA ASA: 18.62 0.00 -1.22 0.00 -1.22 0.00 1.17 1.52  
Mean-Abs-Mistie BSA ASA: 18.62 19.93 1.54 0.41 1.54 0.41 3.80 3.54  
Rms-Mistie BSA ASA: 30.70 24.49 2.10 0.49 2.10 0.49 4.90 4.85

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
54	14:25:42	3.79	-13.52	-4.38	-0.90	-4.38	-0.90	-2.61	-2.61
1035	14:55:59	19.79	3.49	-0.75	0.21	-0.75	0.21	9.92	9.92
75	15:54:41	2.70	-17.97	-0.70	0.36	-0.70	0.36	-2.44	-2.44
1004	17:12:46	1.25	-18.32	0.80	0.45	0.80	0.45	-1.53	2.47
1003	18:35:28	65.54	46.32	-1.04	-0.12	-1.04	-0.12	2.51	0.26

Line: OR29DS226  
LCT line number: 69  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 31.07 22.26 3.55 0.36 3.55 0.35 7.75 2.87



Mean-Mistie BSA ASA: -5.58 0.00 -1.49 0.00 -1.49 0.00 -0.45 0.00  
Mean-Abs-Mistie BSA ASA: 7.23 7.64 1.66 0.15 1.66 0.15 2.30 1.37  
Rms-Mistie BSA ASA: 11.95 9.18 2.06 0.17 2.06 0.17 3.19 1.69

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	0:21:35	-31.07	-22.26	-0.17	0.36	-0.17	0.35	null	null
1004	1:43:16	-13.08	-7.78	0.95	-0.13	0.95	-0.13	2.52	0.11
75	2:59:45	3.32	7.52	-0.41	-0.08	-0.41	-0.08	1.24	-1.05
1035	3:58:32	-3.81	4.76	-0.32	-0.08	-0.32	-0.08	5.03	2.20
54	4:29:49	-19.52	-11.96	-2.58	0.17	-2.58	0.17	-0.82	-1.87
51	5:10:10	4.78	4.17	-2.93	-0.20	-2.93	-0.20	-1.72	-0.23
72	6: 2:43	0.87	4.72	-1.15	0.24	-1.15	0.24	-1.57	0.30
74	6:49:24	0.11	6.06	-1.53	0.03	-1.53	0.03	-1.33	-0.81
48	7:40:28	-0.51	4.63	-1.12	-0.11	-1.12	-0.11	0.49	2.85
13	8:13:36	-1.45	5.37	-3.55	-0.01	-3.55	-0.01	-7.75	-2.87
12	8:54:21	-1.02	4.77	-3.55	-0.19	-3.55	-0.19	-0.53	1.38

Line: OR01-27

LCT line number: 70

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	1.66	4.96	2.84	0.72	2.84	0.72	5.18	5.18
Mean-Mistie BSA ASA:	0.81	0.00	-1.30	0.00	-1.30	0.00	0.11	0.11
Mean-Abs-Mistie BSA ASA:	0.81	3.30	1.63	0.48	1.63	0.48	3.34	3.34
Rms-Mistie BSA ASA:	1.05	3.52	1.89	0.53	1.89	0.53	4.00	4.00

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
6	14:23:51	0.02	-2.91	-1.56	-0.72	-1.56	-0.72	-4.59	-4.59
12	15:12:52	1.66	-2.05	-2.84	0.53	-2.84	0.53	5.18	5.18
79	15:28:22	0.76	4.96	0.50	0.19	0.50	0.19	-0.25	-0.25

Line: DS02-107A

LCT line number: 71

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	18.01	19.46	3.74	0.90	3.74	0.90	5.32	5.32
Mean-Mistie BSA ASA:	1.70	0.00	2.58	0.00	2.58	0.00	0.02	0.02
Mean-Abs-Mistie BSA ASA:	3.81	6.35	2.58	0.33	2.58	0.33	1.90	1.90
Rms-Mistie BSA ASA:	6.25	9.08	2.71	0.43	2.71	0.42	2.41	2.41

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
61	15:34:48	-0.52	3.92	3.74	-0.12	3.74	-0.12	5.32	5.32
60	16: 1:45	-1.79	4.68	3.20	0.08	3.20	0.08	0.16	0.16
57	16:33:29	4.63	4.18	3.12	0.61	3.12	0.61	0.93	0.93
59	16:57:13	0.51	-1.48	3.70	0.37	3.70	0.37	-0.26	-0.26
58	17:28:20	18.01	19.46	2.44	-0.16	2.44	-0.16	0.66	0.66
56	17:51:33	-2.05	-1.27	1.46	0.05	1.46	0.05	null	null
1028	18: 8:48	-2.22	-19.15	2.56	0.13	2.56	0.13	2.55	2.55
16	18:43: 4	-0.51	0.21	1.81	0.15	1.81	0.15	-1.90	-1.90
18	19: 7:46	-4.52	-8.97	3.10	0.44	3.10	0.44	-2.47	-2.47
15	19:34:43	7.12	2.52	1.21	-0.62	1.21	-0.62	-2.94	-2.94
37	19:56:46	0.05	-4.08	2.06	-0.90	2.06	-0.90	-1.83	-1.83

Line: OR14DS105

LCT line number: 72

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	15.20	15.53	2.66	1.03	2.66	1.03	8.87	8.87
Mean-Mistie BSA ASA:	-0.04	0.00	0.95	0.00	0.95	0.00	0.30	0.54
Mean-Abs-Mistie BSA ASA:	2.43	3.65	1.10	0.47	1.10	0.47	2.52	2.18
Rms-Mistie BSA ASA:	3.94	5.31	1.29	0.56	1.29	0.56	3.12	2.87

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
37	23:32:39	1.71	-1.67	2.49	0.94	2.49	0.94	1.46	1.46
15	23:56: 4	-1.38	-5.23	1.32	0.89	1.32	0.89	4.65	4.65
18	24:23:11	1.04	-2.65	1.82	0.57	1.82	0.57	-1.99	-1.99
16	24:48:49	-0.65	0.82	1.01	0.76	1.01	0.76	1.70	1.70
1028	25:24: 2	0.64	-15.53	1.38	0.36	1.38	0.36	0.66	0.66
39	25:24: 8	2.32	0.42	1.56	0.08	1.56	0.08	0.16	0.16
56	25:40:15	-2.48	-0.94	0.24	0.24	0.24	0.24	null	null
58	26: 2:52	-2.23	-0.03	2.22	1.03	2.22	1.03	-3.14	-3.14
59	26:33:29	-2.20	-3.44	2.66	0.74	2.66	0.74	0.90	0.90
40	26:43: 8	2.80	3.43	1.03	0.38	1.03	0.38	1.86	1.86
57	26:55:26	1.55	1.84	0.39	-0.71	0.39	-0.71	null	null
46	27: 9:31	2.25	2.14	1.29	-0.06	1.29	-0.06	-1.77	-1.77
60	27:26:57	-1.11	6.11	1.94	0.23	1.94	0.23	-3.93	-3.93
44	27:27:15	2.88	0.86	1.83	0.46	1.83	0.46	-5.27	-0.17
22	27:53:41	-10.90	-8.63	2.29	0.93	2.29	0.93	2.23	2.23
45	28:14:14	-2.07	-0.21	0.96	0.31	0.96	0.31	-3.67	-3.67
63	28:31:42	6.11	-0.06	1.41	-0.60	1.41	-0.60	-3.59	-0.49
20	28:32:19	15.20	14.32	0.85	-0.12	0.84	-0.12	null	null
1027	28:49:23	-7.57	-3.22	0.56	-0.19	0.56	-0.19	3.75	3.75
62	29:15:53	-2.69	2.86	0.83	-0.53	0.83	-0.53	-1.96	-1.96
19	29:46:32	0.26	7.83	0.35	-0.24	0.36	-0.24	0.36	0.36
64	30:11:13	-0.13	3.40	1.15	0.37	1.15	0.37	-2.09	-0.94
79	30:38: 9	3.20	13.05	0.80	-0.92	0.80	-0.92	-1.53	-1.53
69	31: 2:41	-0.87	-4.72	1.15	-0.24	1.15	-0.24	1.57	-0.30
78	31:30: 7	0.98	2.97	0.06	-0.55	0.06	-0.55	0.91	0.91
77	31:56:54	-1.18	-3.51	1.19	-0.32	1.19	-0.32	-0.31	-0.31
76	32:29:37	0.46	-2.82	0.43	-0.26	0.43	-0.26	3.61	3.61
49	32:29:37	0.42	-5.18	0.88	-0.08	0.88	-0.08	null	null
5	33: 2:14	-0.28	-1.73	0.25	-0.42	0.25	-0.42	1.67	1.67
4	33:34:54	-0.87	0.22	1.19	-0.34	1.19	-0.34	-0.50	-0.50
3	34: 8: 0	-0.60	-1.23	-1.09	-0.51	-1.09	-0.51	4.03	4.03
2	34:47: 3	-1.06	0.94	-0.54	-0.87	-0.54	-0.87	3.97	3.97
1	35:24:27	-0.75	-3.02	-1.02	-0.29	-1.02	-0.29	1.38	1.38
1025	36: 1:53	-4.13	0.91	0.18	-1.03	0.18	-1.03	8.87	8.87
81	36:33:17	0.09	1.66	0.07	-0.01	0.07	-0.01	-4.60	-4.60

Line: OR01-12

LCT line number: 73

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	5.70	4.19	2.72	0.68	2.72	0.68	10.33	10.33
Mean-Mistie BSA ASA:	-0.96	0.00	1.39	0.00	1.39	0.00	0.17	0.17
Mean-Abs-Mistie BSA ASA:	0.99	1.96	1.39	0.19	1.39	0.19	3.66	3.66
Rms-Mistie BSA ASA:	1.88	2.28	1.69	0.31	1.69	0.31	4.86	4.86

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1025	16:27:47	-5.70	0.83	2.72	0.67	2.72	0.67	10.33	10.33
1	17: 6:33	-0.82	-1.60	0.00	-0.11	0.00	-0.11	1.62	1.62
2	17:43:26	-0.85	2.64	1.12	-0.06	1.12	-0.06	-5.82	-5.82
3	18:25: 9	-0.30	0.56	0.29	0.03	0.29	0.03	0.48	0.48
4	19: 0:18	-0.52	2.06	2.46	0.09	2.46	0.09	2.52	2.52
5	19:34:13	-0.89	-0.86	1.68	0.17	1.68	0.17	-7.09	-7.09
76	20: 7:54	0.02	-1.77	1.46	-0.08	1.46	-0.08	0.18	0.18
49	20: 7:56	-0.08	-4.19	1.78	-0.03	1.78	-0.03	null	null
77	20:41:44	-0.55	-1.39	2.35	0.00	2.35	0.00	-2.80	-2.80
74	21: 2:33	0.14	3.73	0.00	-0.68	0.00	-0.68	2.10	2.10

Line: OR01-12A  
LCT line number: 74  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 28.93 24.81 2.10 0.86 2.10 0.86 4.16 4.16  
Mean-Mistie BSA ASA: 1.36 0.00 1.04 0.00 1.04 0.00 0.52 0.64  
Mean-Abs-Mistie BSA ASA: 2.63 3.27 1.06 0.30 1.06 0.30 1.69 1.50  
Rms-Mistie BSA ASA: 6.33 5.78 1.26 0.38 1.26 0.38 2.19 2.04

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
77	3:39:59	-0.74	-5.17	1.95	0.27	1.95	0.27	0.20	0.20
73	4: 0:33	-0.14	-3.73	0.00	0.68	0.00	0.68	-2.10	-2.10
78	4: 7:38	-0.10	-0.21	0.45	-0.32	0.45	-0.32	-1.47	-1.47
69	4:36:28	-0.11	-6.06	1.53	-0.03	1.53	-0.03	1.33	0.81
79	5: 2:50	-1.12	6.63	2.09	0.20	2.09	0.21	1.54	1.54
64	5:30:53	-1.25	0.19	1.05	0.11	1.05	0.11	0.76	0.03
19	5:56:34	-0.79	4.68	0.25	-0.51	0.25	-0.51	0.43	0.43
65	6:20:21	-0.21	-0.55	1.80	0.21	1.80	0.21	-0.37	-0.37
62	6:25:44	0.34	3.80	1.71	0.19	1.71	0.19	1.97	1.97
67	6:39:43	-0.14	-0.93	2.10	0.45	2.10	0.45	3.73	3.73
1027	6:52:19	-2.98	-0.73	1.19	0.28	1.19	0.28	3.91	3.91
20	7:11:19	-0.13	-3.10	0.85	-0.28	0.85	-0.28	null	null
45	7:30: 9	-0.01	-0.24	1.61	0.80	1.61	0.80	-0.14	-0.14
22	7:50:44	0.91	1.08	1.64	0.12	1.64	0.12	4.12	4.12
21	8: 4:38	-0.56	-0.94	0.84	0.28	0.84	0.28	0.22	0.22
44	8:18: 2	28.93	24.81	1.60	0.07	1.60	0.07	-3.68	0.38
46	8:35:31	0.66	-1.54	2.02	0.50	2.02	0.50	1.92	1.92
47	8:49:58	0.84	-0.01	0.29	0.00	0.29	0.01	3.75	3.75
40	9: 2:54	0.19	-1.27	0.81	-0.01	0.81	-0.01	-0.02	-0.02
59	9:10:45	0.78	-2.56	1.58	-0.50	1.58	-0.51	-4.16	-4.16
58	9:39:41	-7.20	-7.10	0.50	-0.86	0.50	-0.86	0.97	0.97
56	10: 2:12	-1.28	-1.84	-0.18	-0.34	-0.18	-0.34	null	null
39	10:17:44	3.57	-0.42	1.56	-0.08	1.56	-0.08	-1.16	-1.16
38	10:34:19	1.34	0.00	0.07	0.00	0.07	0.00	null	null
17	10:53:27	11.92	2.90	0.65	-0.09	0.65	-0.09	1.32	1.32
18	11:17:32	4.42	-1.38	0.93	-0.49	0.93	-0.49	-0.85	-0.85
25	11:35:39	null	null	-0.08	-0.26	-0.08	-0.26	null	null
15	11:43: 2	-0.34	-6.29	0.20	-0.39	0.20	-0.39	0.32	0.32

Line: DS02-110  
LCT line number: 75  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 24.26 18.22 1.68 1.29 1.68 1.29 4.01 4.01  
Mean-Mistie BSA ASA: -0.98 0.00 0.08 0.00 0.08 0.00 0.31 0.76  
Mean-Abs-Mistie BSA ASA: 4.43 7.51 0.61 0.29 0.61 0.29 1.73 1.54  
Rms-Mistie BSA ASA: 7.53 9.46 0.75 0.41 0.75 0.41 2.01 1.82

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
37	16:55:50	-11.00	-14.73	0.33	-0.15	0.33	-0.15	0.16	0.16
15	17:14:59	8.25	4.06	-1.11	-0.47	-1.11	-0.47	-1.51	-1.51
18	17:40:34	-3.85	-7.90	0.26	0.07	0.26	0.07	-0.47	-0.47
16	18: 4:27	0.98	2.10	-0.75	0.06	-0.75	0.06	1.26	1.26
1028	18:35:47	-1.70	-18.22	0.05	0.10	0.05	0.10	1.51	1.51
56	18:53: 3	1.15	2.34	-1.11	-0.04	-1.11	-0.04	null	null
58	19:14:51	6.03	7.89	-0.25	-0.37	-0.25	-0.37	-0.61	-0.61
59	19:44:45	16.43	14.85	0.74	-0.12	0.74	-0.12	4.01	4.01
57	20:10:44	-1.33	-1.38	0.02	-0.01	0.02	-0.01	-2.25	-2.25
60	20:41:28	-24.26	-17.39	0.49	-0.16	0.49	-0.15	0.14	0.14
61	21: 7:41	0.04	4.89	1.68	0.29	1.68	0.29	1.93	1.93
63	21:38:20	-1.44	-7.95	1.36	0.41	1.36	0.41	-1.10	0.30
1027	21:58: 5	0.00	4.00	-0.18	0.14	-0.18	0.14	1.70	1.70
62	22:24:10	-1.79	3.43	-0.31	-0.60	-0.31	-0.60	2.41	2.41
19	22:52:14	0.30	7.52	-0.65	-0.18	-0.65	-0.18	1.67	1.67
64	23:19:42	-0.96	2.23	-0.74	-0.46	-0.74	-0.46	-3.72	1.18
68	23:50: 9	-2.70	17.97	0.70	-0.36	0.70	-0.36	2.44	2.44
69	24:14:44	-3.32	-7.52	0.41	0.08	0.41	0.08	-1.24	1.05
78	24:41:32	1.26	2.91	0.83	1.29	0.83	1.29	2.16	2.16
80	25: 2:15	-1.75	0.91	-0.25	0.51	-0.25	0.51	-2.58	-2.58

Line: OR01-35A  
LCT line number: 76  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 4.58 5.50 2.23 0.38 2.23 0.38 15.35 15.35  
Mean-Mistie BSA ASA: -2.01 0.00 -1.34 0.00 -1.34 0.00 -4.76 -4.76  
Mean-Abs-Mistie BSA ASA: 2.01 3.40 1.34 0.19 1.34 0.19 4.76 4.76  
Rms-Mistie BSA ASA: 2.84 3.62 1.50 0.22 1.50 0.22 7.25 7.25

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
50	3: 3:48	-4.58	-3.00	-2.23	-0.10	-2.23	-0.10	-15.35	-15.35
51	3:57:40	-4.32	-5.50	-1.88	0.15	-1.88	0.15	-1.01	-1.01
72	4:56:36	-0.46	2.82	-0.43	0.26	-0.43	0.26	-3.61	-3.61
73	5:48:15	-0.02	1.77	-1.46	0.08	-1.46	0.08	-0.18	-0.18
48	6:42:31	-0.66	3.91	-0.68	-0.38	-0.68	-0.38	-3.65	-3.65

Line: OR33DS228  
LCT line number: 77  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 20.42 13.38 3.29 0.71 3.29 0.71 9.42 10.54  
Mean-Mistie BSA ASA: -3.56 0.00 -1.51 0.00 -1.51 0.00 -0.04 -0.01  
Mean-Abs-Mistie BSA ASA: 4.20 4.93 1.73 0.31 1.73 0.31 2.03 2.26  
Rms-Mistie BSA ASA: 7.66 5.85 2.00 0.36 2.00 0.36 3.22 3.57

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
48	12:37: 5	0.15	3.77	-1.83	-0.71	-1.83	-0.71	0.35	0.35
74	13:33: 3	0.74	5.17	-1.95	-0.27	-1.95	-0.27	-0.20	-0.20
73	13:33: 5	0.55	1.39	-2.35	0.00	-2.35	0.00	2.80	2.80
72	14:23:14	1.18	3.51	-1.19	0.32	-1.19	0.32	0.31	0.31
51	15:20:26	-3.58	-5.71	-2.38	0.47	-2.38	0.47	1.04	1.04
50	16: 8:58	-1.60	-0.97	-3.26	-0.30	-3.26	-0.30	-1.73	-1.73
54	16: 9: 2	-1.24	4.80	-3.29	-0.42	-3.29	-0.42	1.84	1.84
1035	16:44:19	-20.42	-13.38	-0.15	0.21	-0.15	0.21	2.88	2.88
80	17:45:52	-1.50	3.82	-1.11	0.10	-1.11	0.10	1.01	1.01
1004	19: 6:28	0.90	4.67	1.25	0.28	1.25	0.28	-9.42	-10.54
1002	20:29:36	-14.34	-7.06	-0.30	0.33	-0.30	0.33	0.73	2.15

Line: OR31DS227

LCT line number: 78

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	19.27	20.99	1.58	1.29	1.58	1.29	2.16	2.16
Mean-Mistie BSA ASA:	0.28	0.00	-0.26	0.00	-0.26	0.00	-0.11	-0.07
Mean-Abs-Mistie BSA ASA:	3.59	4.52	0.58	0.50	0.58	0.50	1.30	1.26
Rms-Mistie BSA ASA:	6.48	7.56	0.79	0.62	0.79	0.62	1.45	1.42

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	0:28:36	-1.57	1.39	0.00	-0.27	0.00	-0.27	null	null
1004	1:51:23	-0.73	-1.28	1.58	-0.30	1.58	-0.30	-1.11	-0.74
75	3:12:51	-1.26	-2.91	-0.83	-1.29	-0.83	-1.29	-2.16	-2.16
80	3:12:53	-3.45	-2.44	-0.43	-0.13	-0.43	-0.13	0.87	0.87
1035	4:13:34	-4.23	-1.51	0.02	-0.54	0.02	-0.54	-2.12	-2.12
54	4:46:41	19.27	20.99	-1.05	0.91	-1.05	0.91	-0.04	-0.04
51	5:31:42	-3.54	-9.99	-1.24	0.70	-1.24	0.70	1.26	1.26
72	6:29:18	-0.98	-2.97	-0.06	0.55	-0.06	0.55	-0.91	-0.91
74	7:20:33	0.10	0.21	-0.45	0.32	-0.45	0.32	1.47	1.47
48	8:14: 6	-0.78	-1.49	-0.18	0.04	-0.18	0.04	1.77	1.77

Line: OR01-27A

LCT line number: 79

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	61.07	46.77	4.18	0.92	4.18	0.92	4.94	4.94
Mean-Mistie BSA ASA:	8.49	0.00	-2.26	0.00	-2.26	0.00	0.81	0.81
Mean-Abs-Mistie BSA ASA:	9.62	13.36	2.26	0.43	2.26	0.43	1.35	1.35
Rms-Mistie BSA ASA:	23.12	19.24	2.58	0.53	2.58	0.53	2.06	2.06

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
12	12:53:20	1.11	-6.79	-3.57	0.11	-3.57	0.11	4.94	4.94
70	13: 7:46	-0.76	-4.96	-0.50	-0.19	-0.50	-0.19	0.25	0.25
13	13:37:46	0.09	-6.79	-4.18	-0.32	-4.18	-0.32	0.50	0.50
48	14:15:44	0.00	-8.56	-2.14	-0.81	-2.14	-0.81	0.32	0.32
74	15: 9:51	1.12	-6.63	-2.09	-0.21	-2.09	-0.21	-1.54	-1.54
72	15:58:49	-3.20	-13.05	-0.80	0.92	-0.80	0.92	1.53	1.53
51	16:55:24	61.07	46.77	-2.57	0.49	-2.56	0.49	-0.35	-0.35

Line: DS02-110A

LCT line number: 80

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	3.47	8.90	1.81	0.71	1.81	0.71	10.99	10.99
Mean-Mistie BSA ASA:	1.21	0.00	0.79	0.00	0.79	0.00	-1.22	-1.22
Mean-Abs-Mistie BSA ASA:	1.77	2.72	0.90	0.26	0.90	0.26	2.61	2.61
Rms-Mistie BSA ASA:	2.07	3.64	1.04	0.35	1.04	0.35	4.01	4.01

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
78	20:12:52	3.45	2.44	0.43	0.13	0.43	0.13	-0.87	-0.87
75	20:33:19	1.75	-0.91	0.25	-0.51	0.25	-0.51	2.58	2.58
77	20:39:39	1.50	-3.82	1.11	-0.10	1.11	-0.10	-1.01	-1.01
1026	21:18:23	0.99	-8.90	1.19	0.18	1.19	0.18	-2.79	-2.79
86	21:54: 4	2.75	3.12	1.81	0.01	1.81	0.01	-0.46	-0.46
85	22:28:12	0.10	1.94	1.32	0.31	1.32	0.31	-1.56	-1.56
84	23: 1:13	3.47	1.37	1.27	0.50	1.27	0.50	4.31	4.31
83	23:34:31	0.91	4.03	-0.20	0.03	-0.20	0.03	-1.47	-1.47
82	24:13:34	-0.92	0.55	-0.37	-0.71	-0.37	-0.71	0.04	0.04
1025	24:51:26	-1.88	0.17	1.05	0.14	1.05	0.14	-10.99	-10.99

Line: OR01-47

LCT line number: 81

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	5.56	6.77	3.27	0.70	3.27	0.70	6.50	6.50
Mean-Mistie BSA ASA:	-0.80	0.00	-1.18	0.00	-1.18	0.00	-0.95	-0.95
Mean-Abs-Mistie BSA ASA:	2.03	3.39	1.47	0.36	1.47	0.36	4.00	4.00
Rms-Mistie BSA ASA:	2.91	3.97	1.93	0.43	1.93	0.43	4.39	4.39

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1036	4:39: 3	-5.56	-3.37	0.58	-0.35	0.58	-0.35	-6.50	-6.50
53	5:38:12	1.23	6.77	-3.27	-0.36	-3.27	-0.36	1.50	1.50
52	6:56:48	1.23	-1.74	-1.98	0.70	-1.98	0.70	-3.38	-3.38
72	8: 5: 4	-0.09	-1.66	-0.07	0.01	-0.07	0.01	4.60	4.60

Line: DS02-233

LCT line number: 82

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	3.51	0.55	1.28	0.71	1.28	0.71	3.08	5.93
Mean-Mistie BSA ASA:	1.33	0.00	0.57	0.00	0.57	0.00	-1.39	-2.49
Mean-Abs-Mistie BSA ASA:	1.62	0.37	0.57	0.47	0.57	0.47	1.39	2.49
Rms-Mistie BSA ASA:	2.11	0.43	0.77	0.53	0.77	0.53	1.88	3.53

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
80	14:52:44	0.92	-0.55	0.37	0.71	0.37	0.71	-0.04	-0.04
1004	16:11:33	3.51	0.49	1.28	-0.55	1.28	-0.55	-3.08	-5.93
1002	17:24:18	-0.42	0.06	0.07	-0.16	0.07	-0.16	-1.04	-1.50

Line: DS02-232

LCT line number: 83

Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 14.23 11.86 2.15 0.29 2.15 0.29 5.99 5.07  
Mean-Mistie BSA ASA: 2.83 0.00 1.10 0.00 1.10 0.00 2.61 1.10  
Mean-Abs-Mistie BSA ASA: 5.37 6.44 1.10 0.15 1.10 0.15 3.99 2.48  
Rms-Mistie BSA ASA: 7.51 7.68 1.30 0.20 1.30 0.20 4.43 3.00

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	21:39:20	2.17	1.01	1.10	0.29	1.10	0.29	5.73	0.62
1004	22:55: 0	-4.17	-8.84	2.15	-0.26	2.15	-0.26	5.99	5.07
80	24:13:43	-0.91	-4.03	0.20	-0.03	0.20	-0.03	1.47	1.47
1036	25:16:29	14.23	11.86	0.94	0.00	0.94	0.00	-2.76	-2.76

Line: DS02-231  
LCT line number: 84

Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 4.18 1.37 1.53 0.50 1.53 0.50 10.98 5.73  
Mean-Mistie BSA ASA: -2.63 0.00 0.14 0.00 0.14 0.00 2.13 0.47  
Mean-Abs-Mistie BSA ASA: 3.04 0.87 0.90 0.28 0.90 0.28 6.52 4.86  
Rms-Mistie BSA ASA: 3.31 1.00 1.04 0.34 1.04 0.34 7.05 4.89

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1035	5:17:49	-4.18	-0.37	0.54	0.45	0.54	0.45	-4.46	-4.46
80	6:19:50	-3.47	-1.37	-1.27	-0.50	-1.27	-0.50	-4.31	-4.31
1004	7:42:38	0.82	1.37	1.53	0.12	1.53	0.12	6.32	5.73
1002	9: 0:37	-3.69	0.37	-0.26	-0.06	-0.26	-0.06	10.98	4.94

Line: DS02-230  
LCT line number: 85

Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 23.27 21.00 4.19 0.37 4.19 0.37 4.99 3.96  
Mean-Mistie BSA ASA: 1.89 0.00 -1.02 0.00 -1.02 0.00 2.45 1.46  
Mean-Abs-Mistie BSA ASA: 9.03 8.93 1.49 0.18 1.49 0.18 2.45 1.80  
Rms-Mistie BSA ASA: 13.45 12.06 2.03 0.21 2.03 0.21 2.86 2.13

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	12:15:10	-0.01	0.10	-0.26	0.18	-0.26	0.18	3.09	-0.84
1004	13:33: 1	-1.60	-5.00	1.53	0.37	1.53	0.37	4.99	3.96
80	14:53:24	-0.10	-1.94	-1.32	-0.31	-1.32	-0.31	1.56	1.56
1035	15:55:51	20.81	20.69	-0.35	-0.20	-0.35	-0.20	0.82	0.82
50	16:36:17	17.00	10.46	-2.66	0.10	-2.66	0.10	1.80	1.80
4	16:51: 3	0.43	-3.32	0.11	-0.10	0.11	-0.10	null	null
53	16:53:50	-23.27	-21.00	-4.19	-0.04	-4.19	-0.04	null	null

Line: DS02-229  
LCT line number: 86

Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 6.65 8.00 1.81 0.29 1.81 0.29 7.30 7.30  
Mean-Mistie BSA ASA: -0.16 0.00 -0.90 0.00 -0.90 0.00 0.27 0.18  
Mean-Abs-Mistie BSA ASA: 3.49 4.00 0.94 0.15 0.94 0.15 3.92 3.70  
Rms-Mistie BSA ASA: 3.97 4.93 1.12 0.19 1.12 0.19 5.17 4.75

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1035	21:17: 6	6.65	8.00	-0.86	0.08	-0.86	0.08	7.30	7.30
80	22:19:37	-2.75	-3.12	-1.81	-0.01	-1.81	-0.01	0.46	0.46
1004	23:38:44	-2.94	-4.86	0.09	-0.29	0.09	-0.29	0.62	-1.11
1002	24:57:51	-1.61	-0.02	-1.01	0.22	-1.01	0.22	-7.29	-5.95

Line: DS01-208X  
LCT line number: 1001

Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 8.99 3.09 2.91 0.78 2.91 0.78 6.88 6.88  
Mean-Mistie BSA ASA: 7.04 0.00 1.97 0.00 1.97 0.00 0.00 1.39  
Mean-Abs-Mistie BSA ASA: 7.04 1.54 1.97 0.39 1.97 0.39 3.44 2.18  
Rms-Mistie BSA ASA: 7.24 1.90 2.16 0.49 2.16 0.49 4.42 3.53

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1018	24:38:56	7.38	0.00	2.40	0.00	2.40	0.00	0.00	0.00
1008	24:38:57	4.36	-3.09	2.91	0.28	2.91	0.28	-1.58	-1.58
1009	27:10:39	7.43	1.83	2.04	0.50	2.04	0.50	6.88	6.88
1002	27:41:41	8.99	1.26	0.52	-0.78	0.52	-0.78	-5.30	0.25

Line: [DS01-208XA]  
LCT line number: 1002

Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 31.07 38.87 1.69 0.78 1.69 0.78 31.74 19.48  
Mean-Mistie BSA ASA: 0.77 0.00 0.37 0.00 0.37 0.00 0.77 -0.02  
Mean-Abs-Mistie BSA ASA: 5.09 6.58 0.75 0.22 0.75 0.22 8.53 4.91  
Rms-Mistie BSA ASA: 8.76 11.24 0.94 0.27 0.94 0.27 11.51 7.29

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1001	10:43:59	-8.99	-1.26	-0.52	0.78	-0.52	0.78	5.30	-0.25
1017	11:44:41	15.77	22.03	1.43	0.36	1.43	0.36	-6.58	2.93
1011	12:45:11	-2.44	-9.07	1.69	0.27	1.69	0.27	2.78	-4.97
1012	13:55: 7	-5.25	-14.48	0.64	0.17	0.64	0.17	15.74	3.58
1013	15: 0:23	-18.58	-38.87	1.04	-0.23	1.04	-0.23	0.88	-1.06
1044	15: 4: 9	0.06	-6.42	-0.11	0.00	-0.11	0.00	-2.13	-3.35
1014	16:12:42	-0.53	-0.05	1.02	0.13	1.02	0.13	2.67	13.14
1015	17:23: 8	1.50	-1.32	1.35	0.04	1.35	0.04	-31.74	-16.54
1042	18:36:27	1.32	9.05	-1.04	0.06	-1.04	0.06	-15.32	-2.51
1041	19:49:29	0.05	1.27	0.52	0.41	0.52	0.41	12.13	19.48
1040	21: 4:34	-4.62	4.78	-1.64	0.00	-1.64	0.00	-16.82	-15.36
1045	21: 4:34	-5.59	-1.40	-0.52	0.13	-0.52	0.13	2.29	3.76
1024	22:14:19	-2.87	0.89	0.77	-0.08	0.77	-0.08	4.97	0.70
1023	23:21:31	-0.82	-0.30	1.67	-0.14	1.67	-0.14	8.72	-1.67
1022	24:27:26	-4.28	2.61	0.83	-0.16	0.83	-0.16	16.17	-1.17
1021	25:46:28	0.84	13.99	1.54	-0.18	1.54	-0.18	22.94	6.79
1025	27:14:29	1.46	1.55	0.12	-0.22	0.12	-0.22	1.55	-4.06
82	27:51:13	0.42	-0.06	-0.07	0.16	-0.07	0.16	1.04	1.50
83	28:29:32	-2.17	-1.01	-1.10	-0.29	-1.10	-0.29	-5.73	-0.62
84	28:58:18	3.69	-0.37	0.26	0.06	0.26	0.06	-10.98	-4.94

85	29:27:39	0.01	-0.10	0.26	-0.18	0.26	-0.18	-3.09	0.84
86	29:58:22	1.61	0.02	1.01	-0.22	1.01	-0.22	7.29	5.95
1026	30:31:40	2.44	-9.41	-0.03	-0.46	-0.03	-0.46	7.18	-0.46
77	31:16:34	14.34	7.06	0.30	-0.33	0.30	-0.33	-0.73	-2.15
78	31:43:33	1.57	-1.39	0.00	0.27	0.00	0.27	null	null
69	32: 9:36	31.07	22.26	0.17	-0.36	0.17	-0.35	null	null

Line: [DS01-208XA]  
LCT line number: 1003  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 65.54 46.32 1.67 0.72 1.67 0.72 8.86 2.03  
Mean-Mistie BSA ASA: 0.24 0.00 -0.03 0.00 -0.03 0.00 -0.51 0.04  
Mean-Abs-Mistie BSA ASA: 9.09 8.78 0.72 0.30 0.72 0.30 2.85 0.71  
Rms-Mistie BSA ASA: 18.30 14.23 0.85 0.35 0.85 0.35 4.07 0.93

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
68	8:33: 3	-65.54	-46.32	1.04	0.12	1.04	0.12	-2.51	-0.26
64	9: 2: 1	4.47	6.21	0.16	0.58	0.16	0.58	-6.41	-0.09
19	9:27: 6	1.29	7.07	-0.95	-0.34	-0.95	-0.34	-0.33	-0.64
1027	10:10:44	2.86	5.42	-0.28	0.17	-0.28	0.17	-0.13	0.76
63	10:29:27	0.73	-7.23	1.02	0.21	1.02	0.21	6.81	-0.27
61	10:51: 6	-0.60	2.80	0.96	-0.29	0.96	-0.29	-3.54	-1.47
60	11:18: 1	-0.20	5.23	0.31	-0.19	0.31	-0.19	-1.59	0.63
57	11:50: 1	6.67	5.17	0.47	0.58	0.47	0.58	0.17	0.44
59	12:22:44	2.72	-0.31	0.63	-0.09	0.63	-0.09	1.27	-1.81
58	12:54:38	8.86	9.27	0.47	0.48	0.47	0.48	6.38	2.03
56	13:18:25	20.76	20.50	-1.46	-0.25	-1.46	-0.25	null	null
1028	13:38:52	5.95	-12.01	-0.40	-0.21	-0.40	-0.21	1.26	-0.16
16	14: 9:23	1.93	1.60	-1.67	-0.72	-1.67	-0.72	0.48	0.14
18	14:34:58	5.94	0.45	0.11	0.06	0.11	0.06	-0.18	0.69
15	15: 2:37	7.82	2.18	-0.89	-0.12	-0.89	-0.12	-8.86	0.58

Line: DS01-206X  
LCT line number: 1004  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 58.78 52.66 3.19 0.60 3.19 0.60 17.77 10.54  
Mean-Mistie BSA ASA: -2.88 0.00 -1.23 0.00 -1.23 0.00 -0.49 0.00  
Mean-Abs-Mistie BSA ASA: 8.46 8.01 1.24 0.22 1.24 0.22 5.49 2.63  
Rms-Mistie BSA ASA: 14.36 12.81 1.47 0.27 1.47 0.27 7.36 3.67

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1028	18:48: 2	13.65	-3.96	-1.60	-0.14	-1.60	-0.14	-0.19	0.80
56	19: 6:45	-14.85	-14.76	-1.89	0.60	-1.89	0.60	null	null
58	19:30:29	-4.05	-3.28	-1.32	-0.03	-1.32	-0.03	7.01	-2.62
59	20: 1:19	-5.50	-8.18	-0.66	-0.10	-0.66	-0.10	2.78	0.35
57	20:30:25	-1.29	-2.43	-1.37	0.02	-1.37	0.02	-3.01	0.09
60	21: 3:44	-2.98	2.80	-1.21	-0.44	-1.21	-0.44	-1.20	3.45
61	21:32:39	-3.24	0.51	-0.20	-0.17	-0.20	-0.17	-0.99	1.63
63	22: 1:35	-3.61	-11.22	-0.19	0.28	-0.19	0.28	2.45	-0.08
1027	22:21:55	-5.10	-2.19	-1.78	-0.05	-1.78	-0.05	-0.05	-3.08
62	22:47:13	7.95	12.06	-1.03	0.09	-1.03	0.09	4.63	-0.49
19	23:13:14	-58.78	-52.66	-1.91	-0.02	-1.91	-0.02	4.20	-1.85
64	23:40:51	-3.91	-1.82	-1.52	0.18	-1.52	0.18	0.80	0.04
68	24:12:23	-1.25	18.32	-0.80	-0.45	-0.80	-0.45	1.53	-2.47
69	24:36:47	13.08	7.78	-0.95	0.13	-0.95	0.13	-2.52	-0.11
78	25: 3:44	0.73	1.28	-1.58	0.30	-1.58	0.30	1.11	0.74
77	25:31:21	-0.90	-4.67	-1.25	-0.28	-1.25	-0.28	9.42	10.54
1026	26:13:53	36.98	28.64	-1.29	-0.11	-1.29	-0.11	-4.06	-2.01
86	26:48:11	2.94	4.86	-0.09	0.29	-0.09	0.29	-0.62	1.11
85	27:20:37	1.60	5.00	-1.53	-0.37	-1.53	-0.37	-4.99	-3.96
84	27:52: 3	-0.82	-1.37	-1.53	-0.12	-1.53	-0.12	-6.32	-5.73
83	28:23:40	4.17	8.84	-2.15	0.26	-2.15	0.26	-5.99	-5.07
82	29: 2:39	-3.51	-0.49	-1.28	0.55	-1.28	0.55	3.08	5.93
1025	29:38:48	-8.95	-5.35	-1.04	0.23	-1.04	0.23	-2.80	3.33
1021	31:13:14	-0.46	16.19	0.12	0.01	0.12	0.01	-15.24	0.43
1022	32:32:34	-4.59	5.81	-0.62	-0.01	-0.62	-0.01	-13.67	4.20
1023	33:35:51	0.68	4.71	-0.08	-0.28	-0.08	-0.28	-10.80	-8.72
1024	34:39:15	-7.95	-0.67	-1.03	-0.28	-1.03	-0.28	9.19	-0.72
1045	35:42:37	-12.29	-4.59	-2.57	-0.32	-2.57	-0.32	10.10	-0.77
1040	35:42:38	-11.52	1.39	-3.19	0.05	-3.19	0.05	16.63	5.75
1041	36:47: 5	-1.77	2.95	-1.24	0.25	-1.24	0.25	-0.86	2.02
1042	37:53: 2	-24.18	-12.94	-3.11	-0.41	-3.11	-0.41	-17.77	-4.23
1015	38:57: 7	10.26	10.95	0.08	0.38	0.08	0.38	7.00	1.62
1014	39:59:59	-5.50	-1.51	-0.76	-0.05	-0.76	-0.05	-4.57	-0.10

Line: DS01-206X  
LCT line number: 1005  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 82.17 71.63 1.43 0.51 1.43 0.51 8.44 8.44  
Mean-Mistie BSA ASA: 8.76 0.00 -0.82 0.00 -0.82 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 20.44 22.18 0.82 0.19 0.82 0.19 4.49 4.49  
Rms-Mistie BSA ASA: 33.37 31.35 0.94 0.25 0.94 0.25 4.97 4.97

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1044	17: 2:51	15.74	5.36	-1.37	0.37	-1.37	0.37	-2.72	-2.72
1013	17:35:28	-2.02	-26.22	-0.86	-0.51	-0.86	-0.51	-4.28	-4.28
1012	18: 6:10	-6.88	-20.01	-1.08	0.08	-1.08	0.08	5.68	5.68
1011	19:11:22	82.17	71.63	-0.34	-0.12	-0.34	-0.12	1.60	1.60
1017	20: 9: 2	-26.33	-23.98	-0.49	0.08	-0.49	0.08	-3.08	-3.08
1009	21:33:46	-5.64	-7.42	-1.43	-0.04	-1.43	-0.04	8.44	8.44
1008	23:32:31	4.27	0.64	-0.17	0.14	-0.17	0.14	-5.64	-5.64

Line: DS01-146  
LCT line number: 1006  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 16.40 5.63 1.61 0.37 1.61 0.37 28.85 28.85  
Mean-Mistie BSA ASA: 9.74 0.00 -1.05 0.00 -1.05 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 9.74 3.75 1.08 0.25 1.08 0.25 19.24 19.24  
Rms-Mistie BSA ASA: 10.85 4.17 1.31 0.29 1.31 0.29 20.41 20.41

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1038	7:28:51	7.40	1.27	-1.61	0.35	-1.61	0.35	14.98	14.98
1037	8:33:59	16.40	4.36	0.04	0.03	0.04	0.03	13.87	13.87

1019 9:38:26 5.41 -5.63 -1.59 -0.37 -1.59 -0.37 -28.85 -28.85

Line: DS01-144X  
LCT line number: 1007  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 14.22 7.27 3.02 0.43 3.02 0.43 20.59 20.59  
Mean-Mistie BSA ASA: -7.41 0.00 -2.28 0.00 -2.28 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 9.16 4.84 2.28 0.28 2.28 0.29 13.72 13.72  
Rms-Mistie BSA ASA: 10.37 5.54 2.47 0.30 2.47 0.30 15.13 15.13

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1019	15:39:32	2.62	7.27	-2.89	-0.43	-2.89	-0.43	-20.59	-20.59
1036	16:40:52	-14.22	-6.17	-0.93	0.25	-0.93	0.25	15.35	15.35
1038	17:46:53	-10.65	-1.09	-3.02	0.17	-3.02	0.17	5.23	5.23

Line: DS01-144XA  
LCT line number: 1008  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 4.36 3.09 2.91 0.42 2.91 0.42 7.22 7.22  
Mean-Mistie BSA ASA: -3.70 0.00 -1.84 0.00 -1.84 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 3.70 2.06 1.96 0.28 1.96 0.28 4.82 4.82  
Rms-Mistie BSA ASA: 3.80 2.30 2.33 0.30 2.33 0.30 5.37 5.37

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1038	23:58:27	-2.47	-2.44	-2.79	0.42	-2.79	0.42	-7.22	-7.22
1005	25:11:58	-4.27	-0.64	0.17	-0.14	0.17	-0.14	5.64	5.64
1001	26:32:24	-4.36	3.09	-2.91	-0.28	-2.91	-0.28	1.58	1.58

Line: DS01-142X  
LCT line number: 1009  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 13.65 11.95 3.12 1.00 3.12 1.00 19.53 19.53  
Mean-Mistie BSA ASA: 2.40 0.00 -0.67 0.00 -0.67 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 5.57 6.47 1.47 0.50 1.47 0.50 12.19 12.19  
Rms-Mistie BSA ASA: 6.96 7.88 1.73 0.60 1.73 0.60 13.10 13.10

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1001	9:31:43	-7.43	-1.83	-2.04	-0.50	-2.04	-0.50	-6.88	-6.88
1005	10:52: 6	5.64	7.42	1.43	0.04	1.43	0.04	-8.44	-8.44
1038	12: 6:16	13.65	11.82	-3.12	-1.00	-3.12	-1.00	-13.26	-13.26
1036	13:14:34	3.49	0.16	0.49	0.60	0.49	0.60	-7.98	-7.98
1019	14:18:43	1.12	-5.62	-1.24	0.15	-1.24	0.15	19.53	19.53
1016	16:32:44	-2.07	-11.95	0.47	0.71	0.47	0.71	17.04	17.04

Line: DS01-141X  
LCT line number: 1010  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 1.05 0.00 0.21 0.00 0.21 0.00 0.00 0.00  
Mean-Mistie BSA ASA: 1.05 0.00 -0.21 0.00 -0.21 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 1.05 0.00 0.21 0.00 0.21 0.00 0.00 0.00  
Rms-Mistie BSA ASA: 1.05 0.00 0.21 0.00 0.21 0.00 0.00 0.00

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1016	21: 6:58	1.05	0.00	-0.21	0.00	-0.21	0.00	0.00	0.00

Line: DS01-140  
LCT line number: 1011  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 82.17 71.63 3.06 0.35 3.06 0.35 11.30 11.30  
Mean-Mistie BSA ASA: -6.69 0.00 -1.65 0.00 -1.65 0.00 0.00 1.29  
Mean-Abs-Mistie BSA ASA: 20.70 23.88 1.76 0.21 1.76 0.21 5.56 5.92  
Rms-Mistie BSA ASA: 35.02 34.02 2.00 0.24 2.00 0.24 6.37 6.59

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1016	8:15: 1	3.39	2.29	-1.44	-0.03	-1.44	-0.03	11.30	11.30
1019	10:30: 0	3.05	5.09	-2.88	-0.32	-2.88	-0.32	5.36	5.36
1036	11:33:33	12.77	18.20	-1.14	0.15	-1.14	0.15	-5.34	-5.34
1039	12:40:54	20.37	36.97	-3.06	0.35	-3.06	0.35	-6.95	-6.95
1005	13:55:20	-82.17	-71.63	0.34	0.12	0.34	0.12	-1.60	-1.60
1002	15:14:37	2.44	9.07	-1.69	-0.27	-1.69	-0.27	-2.78	4.97

Line: DS01-139  
LCT line number: 1012  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 79.30 60.10 2.32 0.69 2.32 0.69 15.74 12.95  
Mean-Mistie BSA ASA: -9.28 0.00 -0.70 0.00 -0.70 0.00 0.00 2.03  
Mean-Abs-Mistie BSA ASA: 17.15 20.03 1.13 0.28 1.13 0.28 7.71 5.68  
Rms-Mistie BSA ASA: 32.71 27.31 1.40 0.37 1.40 0.37 9.61 7.29

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	23:32:46	5.25	14.48	-0.64	-0.17	-0.64	-0.17	-15.74	-3.58
1005	24:46:25	6.88	20.01	1.08	-0.08	1.08	-0.08	-5.68	-5.68
1039	25:57:37	-79.30	-60.10	-2.32	0.15	-2.32	0.15	-0.14	-0.14
1036	27: 2:14	2.06	10.09	-0.40	-0.06	-0.40	-0.06	-1.57	-1.57
1019	28: 3: 2	6.98	11.61	-2.14	-0.52	-2.14	-0.52	10.18	10.18
1016	30:12:17	2.42	3.91	0.21	0.69	0.21	0.69	12.95	12.95

Line: DS01-138  
LCT line number: 1013  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 133.21 102.94 3.11 0.53 3.11 0.53 14.17 14.17  
Mean-Mistie BSA ASA: -18.10 0.00 -1.58 0.00 -1.58 0.00 0.00 0.24  
Mean-Abs-Mistie BSA ASA: 24.53 29.68 1.80 0.22 1.80 0.22 4.64 4.66  
Rms-Mistie BSA ASA: 49.17 41.60 1.99 0.29 1.99 0.29 6.26 6.26

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1016	15:34:12	-1.68	10.88	-1.28	0.00	-1.28	0.00	-14.17	-14.17
1043	17:14:50	0.00	8.81	-2.42	-0.15	-2.42	-0.15	-3.49	-3.49

1019	17:37:20	5.16	20.86	-2.95	-0.53	-2.95	-0.53	1.28	1.28
1036	18:44:38	-34.88	-15.78	-1.16	-0.02	-1.16	-0.02	6.86	6.86
1039	19:47:30	-133.21	-102.94	-3.11	0.15	-3.11	0.15	5.69	5.69
1005	20:57:59	2.02	26.22	0.86	0.51	0.86	0.51	4.28	4.28
1002	22:15:44	18.58	38.87	-1.04	0.23	-1.04	0.23	-0.88	1.06
1044	22:49:34	-0.75	13.07	-1.58	-0.20	-1.58	-0.20	0.43	0.43

Line: DS01-137  
LCT line number: 1014  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 8.23 16.81 2.61 0.73 2.61 0.73 29.98 29.98  
Mean-Mistie BSA ASA: 1.66 0.00 -1.12 0.00 -1.12 0.00 0.00 -2.49  
Mean-Abs-Mistie BSA ASA: 4.40 6.12 1.38 0.28 1.38 0.28 11.52 12.52  
Rms-Mistie BSA ASA: 5.22 8.43 1.56 0.36 1.56 0.36 14.62 15.42

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	6: 4: 7	0.53	0.05	-1.02	-0.13	-1.02	-0.13	-2.67	-13.14
1004	7:17:56	5.50	1.51	0.76	0.05	0.76	0.05	4.57	0.10
1039	8:29: 4	7.32	16.81	-2.61	0.27	-2.61	0.27	-7.80	-7.80
1036	9:27:49	-8.23	-9.90	-0.39	0.37	-0.39	0.37	-13.60	-13.60
1019	10:23:47	2.83	-2.25	-1.87	0.16	-1.87	0.16	29.98	29.98
1016	12:27:57	2.00	-6.22	-1.62	-0.73	-1.62	-0.73	-10.47	-10.47

Line: DS01-136A  
LCT line number: 1015  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 10.26 10.95 3.24 0.64 3.24 0.64 31.74 21.02  
Mean-Mistie BSA ASA: -1.64 0.00 -1.54 0.00 -1.54 0.00 0.00 -1.64  
Mean-Abs-Mistie BSA ASA: 4.81 3.65 1.54 0.35 1.54 0.35 14.89 11.46  
Rms-Mistie BSA ASA: 5.76 5.25 1.85 0.42 1.85 0.42 17.60 13.41

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1016	26:23:59	6.00	1.08	-1.95	-0.64	-1.95	-0.64	-16.65	-16.65
1019	28:37:49	3.50	1.72	-2.03	0.42	-2.03	0.42	6.41	6.41
1036	29:40:32	-1.07	0.55	-0.60	0.58	-0.60	0.58	6.51	6.51
1039	30:44:28	-6.51	6.28	-3.24	0.06	-3.24	0.06	-21.02	-21.02
1004	32: 1:21	-10.26	-10.95	-0.08	-0.38	-0.08	-0.38	-7.00	-1.62
1002	33:22:14	-1.50	1.32	-1.35	-0.04	-1.35	-0.04	31.74	16.54

Line: DS01-201  
LCT line number: 1016  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 6.00 11.95 1.95 0.73 1.95 0.73 17.04 17.04  
Mean-Mistie BSA ASA: -1.59 0.00 0.83 0.00 0.83 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 2.66 5.19 1.03 0.40 1.03 0.40 11.80 11.80  
Rms-Mistie BSA ASA: 3.06 6.78 1.22 0.52 1.22 0.52 12.95 12.95

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1015	9:37:32	-6.00	-1.08	1.95	0.64	1.95	0.64	16.65	16.65
1014	10:46:31	-2.00	6.22	1.62	0.73	1.62	0.73	10.47	10.47
1013	11:58:13	1.68	-10.88	1.28	0.00	1.28	0.00	14.17	14.17
1012	13: 4:12	-2.42	-3.91	-0.21	-0.69	-0.21	-0.69	-12.95	-12.95
1011	14:15: 7	-3.39	-2.29	1.44	0.03	1.44	0.03	-11.30	-11.30
1010	15:36: 7	-1.05	0.00	0.21	0.00	0.21	0.00	0.00	0.00
1009	17:35:32	2.07	11.95	-0.47	-0.71	-0.47	-0.71	-17.04	-17.04

Line: DS01-141XA  
LCT line number: 1017  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 26.33 23.98 3.00 0.44 3.00 0.44 9.54 9.54  
Mean-Mistie BSA ASA: 4.65 0.00 -1.34 0.00 -1.34 0.00 0.00 -1.90  
Mean-Abs-Mistie BSA ASA: 11.62 11.56 1.54 0.20 1.54 0.20 5.58 4.85  
Rms-Mistie BSA ASA: 14.61 14.97 1.83 0.26 1.83 0.26 6.03 5.42

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1019	1:40:21	4.01	-6.86	-2.27	-0.06	-2.27	-0.06	-9.54	-9.54
1036	2:43:51	10.34	2.87	-0.49	0.44	-0.49	0.44	4.29	4.29
1039	3:48:43	-1.67	2.04	-3.00	0.06	-3.00	0.06	-4.41	-4.41
1005	4:59:59	26.33	23.98	0.49	-0.08	0.49	-0.08	3.08	3.08
1002	6:19: 0	-15.77	-22.03	-1.43	-0.36	-1.43	-0.36	6.58	-2.93

Line: DS01-144XB  
LCT line number: 1018  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 7.38 0.00 2.40 0.00 2.40 0.00 0.00 0.00  
Mean-Mistie BSA ASA: -7.38 0.00 -2.40 0.00 -2.40 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 7.38 0.00 2.40 0.00 2.40 0.00 0.00 0.00  
Rms-Mistie BSA ASA: 7.38 0.00 2.40 0.00 2.40 0.00 0.00 0.00

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1001	18:44:32	-7.38	0.00	-2.40	0.00	-2.40	0.00	0.00	0.00

Line: DS01-203  
LCT line number: 1019  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 6.98 20.86 2.95 0.72 2.95 0.72 29.98 29.98  
Mean-Mistie BSA ASA: -2.27 0.00 1.48 0.00 1.48 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 3.34 7.69 1.52 0.32 1.52 0.32 13.11 13.11  
Rms-Mistie BSA ASA: 3.95 9.04 1.85 0.37 1.85 0.37 16.31 16.31

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1006	9:32:42	-5.41	5.63	1.59	0.37	1.59	0.37	28.85	28.85
1007	11:30:49	-2.62	-7.27	2.89	0.43	2.89	0.43	20.59	20.59
1009	13:12:55	-1.12	5.62	1.24	-0.15	1.24	-0.15	-19.53	-19.53
1017	15: 0:25	-4.01	6.86	2.27	0.06	2.27	0.06	9.54	9.54
1011	16:11:46	-3.05	-5.09	2.88	0.32	2.88	0.32	-5.36	-5.36
1012	17:18: 7	-6.98	-11.61	2.14	0.52	2.14	0.52	-10.18	-10.18
1013	18:10:10	-5.16	-20.86	2.95	0.53	2.95	0.53	-1.28	-1.28
1043	18:19: 8	-0.44	-7.32	0.05	-0.10	0.05	-0.10	-0.90	-0.90
1014	19:25:11	-2.83	2.25	1.87	-0.16	1.87	-0.16	-29.98	-29.98

1015	20:32:55	-3.50	-1.72	2.03	-0.42	2.03	-0.42	-6.41	-6.41
1042	21:40:16	-4.14	8.19	0.00	-0.06	0.00	-0.06	21.66	21.66
1041	22:46:36	6.49	12.31	0.88	-0.37	0.88	-0.37	-18.10	-18.10
1045	23:52:35	0.95	9.74	-0.22	-0.72	-0.22	-0.72	11.13	11.13
1020	24:12: 7	0.00	3.28	0.20	-0.24	0.20	-0.24	-0.03	-0.03

Line: DS01-203A  
LCT line number: 1020  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 12.39 6.40 2.57 0.46 2.57 0.46 8.39 4.81  
Mean-Mistie BSA ASA: -3.47 0.00 1.08 0.00 1.08 0.00 -1.69  
Mean-Abs-Mistie BSA ASA: 3.83 3.45 1.16 0.19 1.16 0.19 3.37 1.71  
Rms-Mistie BSA ASA: 5.85 3.88 1.51 0.25 1.51 0.25 4.56 2.59

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1045	5:35:37	0.89	6.40	0.05	0.00	0.05	0.00	-0.43	-0.43
1019	5:55:34	0.00	-3.28	-0.20	0.24	-0.20	0.24	0.03	0.03
1024	6:42:49	-2.86	2.22	1.10	-0.46	1.10	-0.46	-3.18	-3.18
1023	7:48: 5	-3.00	-1.16	2.57	0.06	2.57	0.06	-4.81	-4.81
1022	8:50:25	-12.39	-4.18	1.87	0.17	1.87	0.17	8.39	-0.08

Line: DS01-128  
LCT line number: 1021  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 31.07 16.73 4.49 0.78 4.49 0.78 22.94 13.11  
Mean-Mistie BSA ASA: 11.83 0.00 -1.78 0.00 -1.78 0.00 0.00 0.12  
Mean-Abs-Mistie BSA ASA: 12.25 15.09 1.78 0.39 1.78 0.39 14.18 6.44  
Rms-Mistie BSA ASA: 17.63 15.15 2.42 0.50 2.42 0.50 15.49 7.86

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1036	12:33:57	31.07	16.73	-0.98	0.61	-0.98	0.61	-5.41	-5.41
1039	13:35:50	16.63	13.45	-4.49	-0.78	-4.49	-0.78	13.11	13.11
1004	14:50:57	0.46	-16.19	-0.12	-0.01	-0.12	-0.01	15.24	-0.43
1002	16: 1:32	-0.84	-13.99	-1.54	0.18	-1.54	0.18	-22.94	-6.79

Line: DS01-130  
LCT line number: 1022  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 12.39 15.00 2.79 0.19 2.79 0.19 16.17 5.10  
Mean-Mistie BSA ASA: 6.10 0.00 -1.18 0.00 -1.18 0.00 0.00 -0.05  
Mean-Abs-Mistie BSA ASA: 7.17 7.67 1.43 0.14 1.43 0.14 10.12 2.59  
Rms-Mistie BSA ASA: 8.27 8.93 1.64 0.16 1.64 0.16 11.44 3.19

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	4:41:27	4.28	-2.61	-0.83	0.16	-0.83	0.16	-16.17	1.17
1004	5:52:27	4.59	-5.81	0.62	0.01	0.62	0.01	13.67	-4.20
1039	7: 8:33	11.92	15.00	-2.79	0.19	-2.79	0.19	11.62	5.10
1036	8:11:17	-2.68	-10.77	-1.04	-0.18	-1.04	-0.18	-0.75	-2.41
1020	9:11:45	12.39	4.18	-1.87	-0.17	-1.87	-0.17	-8.39	0.08

Line: DS01-131  
LCT line number: 1023  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 4.75 4.71 4.28 0.48 4.28 0.48 10.80 8.72  
Mean-Mistie BSA ASA: -0.27 0.00 -2.00 0.00 -2.00 0.00 0.00 1.66  
Mean-Abs-Mistie BSA ASA: 1.90 2.46 2.03 0.21 2.03 0.21 6.24 4.42  
Rms-Mistie BSA ASA: 2.56 3.09 2.46 0.26 2.46 0.26 6.92 5.02

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1020	15:14:29	3.00	1.16	-2.57	-0.06	-2.57	-0.06	4.81	4.81
1036	16:13: 1	0.27	-1.45	-1.56	0.12	-1.56	0.12	-3.72	-3.72
1039	17:13:31	-4.75	4.70	-4.28	-0.48	-4.28	-0.48	-3.17	-3.17
1004	18:25:26	-0.68	-4.71	0.08	0.28	0.08	0.28	10.80	8.72
1002	19:34:13	0.82	0.30	-1.67	0.14	-1.67	0.14	-8.72	1.67

Line: DS01-132  
LCT line number: 1024  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 7.95 6.09 3.52 0.67 3.52 0.67 12.17 12.17  
Mean-Mistie BSA ASA: 2.97 0.00 -1.04 0.00 -1.04 0.00 0.00 2.84  
Mean-Abs-Mistie BSA ASA: 3.02 2.71 1.46 0.33 1.46 0.33 6.14 3.59  
Rms-Mistie BSA ASA: 4.03 3.37 1.79 0.39 1.79 0.39 7.33 5.67

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	4:15:45	2.87	-0.89	-0.77	0.08	-0.77	0.08	-4.97	-0.70
1004	5:32:51	7.95	0.67	1.03	0.28	1.03	0.28	-9.19	0.72
1039	6:51:53	-0.11	6.09	-3.52	-0.67	-3.52	-0.67	-1.19	-1.19
1036	7:55: 6	1.30	-3.66	-0.86	-0.14	-0.86	-0.14	12.17	12.17
1020	8:58: 3	2.86	-2.22	-1.10	0.46	-1.10	0.46	3.18	3.18

Line: DS01-126  
LCT line number: 1025  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 8.95 5.35 4.41 1.03 4.41 1.03 10.99 10.99  
Mean-Mistie BSA ASA: 2.88 0.00 -1.41 0.00 -1.41 0.00 -1.16 -1.23  
Mean-Abs-Mistie BSA ASA: 3.66 2.20 1.67 0.41 1.67 0.41 4.61 4.99  
Rms-Mistie BSA ASA: 4.43 2.72 2.33 0.51 2.33 0.51 6.32 6.48

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	7: 2:48	-1.46	-1.55	-0.12	0.22	-0.12	0.22	-1.55	4.06
1004	8:12:32	8.95	5.35	1.04	-0.23	1.04	-0.23	2.80	-3.33
80	9:27:27	1.88	-0.17	-1.05	-0.14	-1.05	-0.14	10.99	10.99
1036	10:27:59	-1.68	-2.97	-0.11	0.09	-0.11	0.09	-0.17	-0.17
53	11:28:21	1.40	3.46	-3.77	0.29	-3.77	0.29	-0.77	-0.77
52	12:41:41	4.07	-2.38	-4.41	-0.59	-4.41	-0.59	-1.39	-1.39
72	13:50:16	4.13	-0.91	-0.18	1.03	-0.18	1.03	-8.87	-8.87
73	14:49:32	5.70	-0.83	-2.72	-0.67	-2.72	-0.67	-10.33	-10.33

Line: DS01-123



LCT line number: 1026

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	36.98	28.64	2.99	0.46	2.99	0.46	31.72	31.72
Mean-Mistie BSA ASA:	-8.02	0.00	-0.58	0.00	-0.58	0.00	-4.90	-3.78
Mean-Abs-Mistie BSA ASA:	9.75	11.69	1.02	0.21	1.02	0.21	10.66	8.91
Rms-Mistie BSA ASA:	15.76	14.67	1.43	0.25	1.43	0.25	15.09	14.66

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
50	22: 1: 2	-8.20	-3.01	-2.99	-0.23	-2.99	-0.23	-31.72	-31.72
49	22:15:54	-4.72	-3.42	-0.27	0.07	-0.27	0.07	null	null
1035	22:42:32	5.18	16.78	-0.37	-0.22	-0.37	-0.22	7.54	7.54
80	23:50:36	-0.99	8.90	-1.19	-0.18	-1.19	-0.18	2.79	2.79
1004	25:25:11	-36.98	-28.64	1.29	0.11	1.29	0.11	4.06	2.01
1002	26:58:46	-2.44	9.41	0.03	0.46	0.03	0.46	-7.18	0.46

Line: DS01-120

LCT line number: 1027

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	10.36	10.72	2.83	0.28	2.83	0.28	13.06	13.06
Mean-Mistie BSA ASA:	2.44	0.00	-0.62	0.00	-0.62	0.00	-1.35	-1.16
Mean-Abs-Mistie BSA ASA:	3.09	3.07	1.17	0.12	1.17	0.12	4.04	4.38
Rms-Mistie BSA ASA:	4.44	4.19	1.53	0.15	1.53	0.15	5.64	5.72

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1003	13:11:29	-2.86	-5.42	0.28	-0.17	0.28	-0.17	0.13	-0.76
1004	14:55:38	5.10	2.19	1.78	0.05	1.78	0.05	0.05	3.08
75	16:34:25	0.00	-4.00	0.18	-0.14	0.18	-0.14	-1.70	-1.70
1035	17:50:27	10.36	10.72	0.31	-0.09	0.31	-0.09	-5.90	-5.90
55	18:37:19	-0.42	-2.48	-2.48	0.04	-2.48	0.04	-8.93	-8.93
72	19:42:41	7.57	3.22	-0.56	0.19	-0.56	0.19	-3.75	-3.75
74	20:36:16	2.98	0.73	-1.19	-0.28	-1.19	-0.28	-3.91	-3.91
48	21:28:38	0.17	-2.89	-0.32	0.04	-0.32	0.04	-5.44	-5.44
13	22:12:54	-0.27	-1.66	-2.83	0.07	-2.83	0.07	13.06	13.06
66	22:38:37	1.91	-0.30	0.44	0.04	0.44	0.04	1.56	1.56
12	22:58:41	2.28	-0.12	-2.46	0.25	-2.46	0.25	-0.08	-0.08

Line: DS01-117

LCT line number: 1028

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	102.00	81.12	2.56	0.36	2.56	0.36	2.55	2.55
Mean-Mistie BSA ASA:	-16.75	0.00	-0.08	0.00	-0.08	0.00	-1.07	-0.87
Mean-Abs-Mistie BSA ASA:	18.10	20.28	0.93	0.19	0.93	0.19	1.16	0.96
Rms-Mistie BSA ASA:	36.97	31.25	1.26	0.21	1.26	0.21	1.38	1.23

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
72	6:12: 2	-0.64	15.53	-1.38	-0.36	-1.38	-0.36	-0.66	-0.66
71	7: 2:14	2.22	19.15	-2.56	-0.13	-2.56	-0.13	-2.55	-2.55
1035	7:31:20	-102.00	-81.12	-0.03	-0.17	-0.03	-0.17	0.18	0.18
75	8:34:37	1.70	18.22	-0.05	-0.10	-0.05	-0.10	-1.51	-1.51
1034	9: 4:22	1.49	11.37	0.24	0.27	0.24	0.27	-1.50	-0.37
1033	9:10:57	-17.16	0.88	1.17	0.14	1.17	0.14	-1.44	-1.44
1004	9:10:57	-13.65	3.96	1.60	0.14	1.60	0.14	0.19	-0.80
1003	10:59:33	-5.95	12.01	0.40	0.21	0.40	0.21	-1.26	0.16

Line: DS01-114

LCT line number: 1029

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	17.82	21.92	1.49	0.54	1.49	0.54	2.98	2.98
Mean-Mistie BSA ASA:	4.75	0.00	-0.33	0.00	-0.33	0.00	-0.04	0.06
Mean-Abs-Mistie BSA ASA:	6.26	8.71	0.44	0.25	0.44	0.25	1.19	1.16
Rms-Mistie BSA ASA:	8.72	10.84	0.67	0.32	0.67	0.32	1.64	1.63

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1034	22: 5: 9	-4.42	-11.32	0.10	-0.21	0.10	-0.21	-0.37	0.22
1035	24: 5:41	17.82	21.92	-0.05	-0.54	-0.05	-0.54	-0.33	-0.33
23	26:48:37	1.91	-4.18	-0.16	0.22	-0.16	0.22	0.34	0.34
25	27: 4:57	-0.12	-6.91	-0.60	0.06	-0.60	0.06	0.55	0.55
24	27:32:43	10.36	4.22	0.22	0.46	0.22	0.46	-2.98	-2.98
14	28:11:51	2.96	-3.73	-1.49	0.01	-1.49	0.01	2.55	2.55

Line: DS01-112

LCT line number: 1030

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	14.39	12.73	0.58	0.34	0.58	0.34	4.46	4.46
Mean-Mistie BSA ASA:	8.72	0.00	-0.39	0.00	-0.39	0.00	1.39	1.23
Mean-Abs-Mistie BSA ASA:	8.72	8.49	0.39	0.23	0.39	0.23	1.86	1.74
Rms-Mistie BSA ASA:	9.75	9.22	0.46	0.27	0.46	0.27	2.62	2.61

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
23	10:35:37	7.95	-3.90	-0.58	0.33	-0.58	0.33	4.46	4.46
1035	13: 8:36	14.39	12.73	-0.03	0.01	-0.03	0.01	-0.70	-0.70
1034	15: 0:40	3.83	-8.83	-0.55	-0.34	-0.55	-0.34	0.41	-0.06

Line: DS01-110

LCT line number: 1031

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	43.16	28.10	1.03	0.33	1.03	0.33	4.73	4.73
Mean-Mistie BSA ASA:	-7.04	0.00	-0.51	0.00	-0.51	0.00	-0.70	0.55
Mean-Abs-Mistie BSA ASA:	19.75	17.23	0.57	0.21	0.57	0.21	3.07	2.05
Rms-Mistie BSA ASA:	23.96	18.87	0.67	0.22	0.67	0.22	3.50	2.67

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1034	26:15:44	-10.43	-6.37	-0.34	-0.21	-0.34	-0.21	-4.54	0.48
1035	27:57:18	-43.16	-28.10	0.11	0.08	0.11	0.08	-0.65	-0.65
23	30:28:37	11.71	16.58	-1.03	-0.20	-1.03	-0.20	4.73	4.73
25	30:49:51	13.72	17.89	-0.78	0.33	-0.78	0.33	-2.35	-2.35

Line: DS01-108

LCT line number: 1032

Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	18.00	12.58	0.71	0.26	0.71	0.26	3.03	3.03
Mean-Mistie BSA ASA:	10.92	0.00	-0.36	0.00	-0.36	0.00	0.00	1.76
Max-Abs-Mistie BSA ASA:	10.92	12.58	0.36	0.26	0.36	0.26	3.03	1.76
Rms-Mistie BSA ASA:	13.01	12.58	0.50	0.26	0.50	0.26	3.03	2.17

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1035	12:51:51	18.00	12.58	-0.02	0.26	-0.02	0.26	3.03	3.03
1034	14:36:39	3.84	-12.58	-0.71	-0.26	-0.71	-0.26	-3.03	0.49

Line: DS01-206XA  
LCT line number: 1033  
Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	17.16	7.48	1.97	0.34	1.97	0.34	2.75	2.75
Mean-Mistie BSA ASA:	7.58	0.00	-1.26	0.00	-1.26	0.00	1.28	1.17
Max-Abs-Mistie BSA ASA:	7.58	3.11	1.26	0.21	1.26	0.21	1.58	1.47
Rms-Mistie BSA ASA:	9.95	4.02	1.34	0.24	1.34	0.24	1.73	1.67

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
15	5: 5:33	13.21	7.48	-1.97	-0.34	-1.97	-0.34	-0.75	-0.75
18	5:30:59	2.45	-3.12	-0.84	-0.05	-0.84	-0.05	1.87	1.87
16	5:54:25	0.71	0.30	-1.55	0.25	-1.55	0.25	2.75	2.75
1034	6:13: 4	4.38	-3.78	-0.78	0.29	-0.78	0.29	1.09	0.55
1028	6:24:18	17.16	-0.88	-1.17	-0.14	-1.17	-0.14	1.44	1.44

Line: DS01-207  
LCT line number: 1034  
Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	38.11	35.52	1.06	0.34	1.06	0.34	4.54	0.81
Mean-Mistie BSA ASA:	-5.92	0.00	0.03	0.00	0.03	0.00	0.28	-0.06
Max-Abs-Mistie BSA ASA:	9.42	11.56	0.47	0.22	0.47	0.22	1.73	0.33
Rms-Mistie BSA ASA:	14.51	14.34	0.57	0.24	0.57	0.24	2.12	0.40

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1028	10:35:56	-1.49	-11.37	-0.24	-0.27	-0.24	-0.27	1.50	0.37
1033	10:48:46	-4.38	3.78	0.78	-0.29	0.78	-0.29	-1.09	-0.55
16	11: 9:22	-24.46	-16.71	-1.06	-0.33	-1.06	-0.33	-1.06	0.81
18	11:34:55	-38.11	-35.52	0.22	-0.04	0.22	-0.04	-2.62	-0.08
15	12: 2:46	4.38	6.82	-0.86	-0.30	-0.86	-0.30	-2.22	0.25
1029	14: 2: 4	4.42	11.32	-0.10	0.21	-0.10	0.21	0.37	-0.22
1030	16:14:29	-3.83	8.83	0.55	0.34	0.55	0.34	-0.41	0.06
1031	18:25: 0	10.43	6.37	0.34	0.21	0.34	0.21	4.54	-0.48
1047	19:28: 1	0.03	3.21	0.17	0.03	0.17	0.03	1.61	0.00
1032	20:30:30	-3.84	12.58	0.71	0.26	0.71	0.26	3.03	-0.49
1046	21:33:58	-8.24	10.71	-0.16	0.17	-0.16	0.17	-0.60	-0.30

Line: DS01-204X  
LCT line number: 1035  
Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	102.00	81.12	1.56	0.54	1.56	0.54	12.20	9.92
Mean-Mistie BSA ASA:	3.39	0.00	0.04	0.00	0.04	0.00	-0.34	0.01
Max-Abs-Mistie BSA ASA:	19.24	16.33	0.46	0.25	0.46	0.25	3.33	2.97
Rms-Mistie BSA ASA:	28.46	23.66	0.62	0.29	0.62	0.29	4.55	3.97

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1046	3:44:25	-18.66	-10.71	-0.67	-0.17	-0.67	-0.17	0.60	0.60
1032	4:46:50	-18.00	-12.58	0.02	-0.26	0.02	-0.26	-3.03	-3.03
1047	5:49:30	4.61	-3.21	-0.07	-0.03	-0.07	-0.03	-1.61	-1.61
1031	6:51: 9	43.16	28.10	-0.11	-0.08	-0.11	-0.08	0.65	0.65
1030	8:55:57	-14.39	-12.73	0.03	-0.01	0.03	-0.01	0.70	0.70
1029	11: 2:44	-17.82	-21.92	0.05	0.54	0.05	0.54	0.33	0.33
37	12:37:12	20.51	12.42	0.11	-0.29	0.11	-0.29	3.00	3.00
15	12:58:17	-17.02	-25.58	-0.27	0.47	-0.27	0.47	0.76	0.76
18	13:24: 5	66.77	58.35	-0.03	-0.13	-0.03	-0.13	0.21	0.21
16	13:48:14	14.93	11.69	-1.07	-0.17	-1.07	-0.17	0.64	0.64
1028	14:22: 6	102.00	81.12	0.03	0.17	0.03	0.17	-0.18	-0.18
56	14:40: 1	-0.85	-4.03	-1.42	-0.26	-1.42	-0.26	null	null
58	15: 4:25	-23.69	-26.20	-0.06	-0.09	-0.06	-0.09	0.81	0.81
59	15:36:31	7.07	1.12	0.48	-0.28	0.48	-0.28	7.85	7.85
57	16: 2:55	-2.96	-7.37	-0.55	-0.48	-0.54	-0.48	3.28	3.28
60	16:38:41	-3.90	-1.39	0.70	0.15	0.70	0.15	4.04	4.04
61	17: 8:54	-11.67	-11.19	1.56	0.27	1.56	0.27	3.27	3.27
63	17:46: 0	47.71	36.83	1.04	0.19	1.04	0.19	-1.54	-0.98
1027	18: 7:46	-10.36	-10.72	-0.31	0.09	-0.31	0.09	5.90	5.90
62	18:38:19	-25.43	-24.58	0.67	0.47	0.67	0.47	4.64	4.64
19	19:13:31	-14.80	-11.94	-0.26	0.31	-0.26	0.31	-1.11	-1.11
64	19:46: 6	-5.84	-7.02	-0.87	-0.49	-0.87	-0.49	-12.20	-5.32
68	20:19:28	-19.79	-3.49	0.75	-0.21	0.75	-0.21	-9.92	-9.92
69	20:46:23	3.81	-4.76	0.32	0.08	0.32	0.08	-5.03	-2.20
78	21:16:41	4.23	1.51	-0.02	0.54	-0.02	0.54	2.12	2.12
77	21:47:45	20.42	13.38	0.15	-0.21	0.15	-0.21	-2.88	-2.88
1026	22:26:12	-5.18	-16.78	0.37	0.22	0.37	0.22	-7.54	-7.54
86	22:59:49	-6.65	-8.00	0.86	-0.08	0.86	-0.08	-7.30	-7.30
85	23:33:27	-20.81	-20.69	0.35	0.20	0.35	0.20	-0.82	-0.82
84	24: 5:46	4.18	0.37	-0.54	-0.45	-0.54	-0.45	4.46	4.46

Line: DS01-204X  
LCT line number: 1036  
Line Summary Statistics:

Max-Abs-Mistie BSA ASA:	34.88	18.20	1.56	0.63	1.56	0.63	15.35	15.35
Mean-Mistie BSA ASA:	0.22	0.00	0.20	0.00	0.20	0.00	0.19	0.27
Max-Abs-Mistie BSA ASA:	9.35	7.51	0.71	0.29	0.71	0.29	6.19	6.27
Rms-Mistie BSA ASA:	13.20	9.42	0.80	0.36	0.80	0.36	7.75	7.76

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
2	24:37:57	-6.01	-7.76	-0.58	0.10	-0.58	0.10	2.30	2.30
83	24:37:58	-14.23	-11.86	-0.94	0.00	-0.94	0.00	2.76	2.76
1	25:14:41	23.03	17.01	-1.18	0.56	-1.18	0.56	-5.55	-5.55
1025	25:49:30	1.68	2.97	0.11	-0.09	0.11	-0.09	0.17	0.17
81	26:19:45	5.56	3.37	-0.58	0.35	-0.58	0.35	6.50	6.50
1021	27:37:13	-31.07	-16.73	0.98	-0.61	0.98	-0.61	5.41	5.41
1022	29: 6:26	2.68	10.77	1.04	0.18	1.04	0.18	0.75	2.41

1023	30: 7:32	-0.27	1.45	1.56	-0.12	1.56	-0.12	3.72	3.72
1024	31:10:45	-1.30	3.66	0.86	0.14	0.86	0.14	-12.17	-12.17
1045	32:14: 2	5.07	10.45	-0.16	0.63	-0.16	0.63	-1.42	-1.42
1041	33:17:12	-10.97	-8.55	0.36	0.38	0.36	0.38	1.45	1.45
1042	34:20:35	-7.85	1.08	-0.67	0.55	-0.67	0.55	14.26	14.26
1015	35:23:19	1.07	-0.55	0.60	-0.58	0.60	-0.58	-6.51	-6.51
1014	36:26:11	8.23	9.90	0.39	-0.37	0.39	-0.37	13.60	13.60
1043	37:29:34	8.79	-1.49	-0.87	0.25	-0.87	0.25	4.39	4.39
1013	38:17:16	34.88	15.78	1.16	0.02	1.16	0.02	-6.86	-6.86
1012	38:32:20	-2.06	-10.09	0.40	0.06	0.40	0.06	1.57	1.57
1011	39:38:33	-12.77	-18.20	1.14	-0.15	1.14	-0.15	5.34	5.34
1017	40:46:32	-10.34	-2.87	0.49	-0.44	0.49	-0.44	-4.29	-4.29
1009	42:28:23	-3.49	-0.16	-0.49	-0.60	-0.49	-0.60	7.98	7.98
1007	44:23:11	14.22	6.17	0.93	-0.25	0.93	-0.25	-15.35	-15.35
1037	46: 9:50	0.05	-4.36	-0.07	-0.03	-0.07	-0.02	-13.87	-13.87

Line: DS01-204X  
LCT line number: 1037

Line Summary Statistics:									
Max-Abs-Mistie BSA ASA:	16.40	4.36	0.07	0.03	0.07	0.03	13.87	13.87	
Mean-Mistie BSA ASA:	-8.23	0.00	0.02	0.00	0.02	0.00	0.00	0.00	
Mean-Abs-Mistie BSA ASA:	8.23	4.36	0.06	0.03	0.05	0.03	13.87	13.87	
Rms-Mistie BSA ASA:	11.60	4.36	0.06	0.03	0.06	0.03	13.87	13.87	

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1036	22: 9:50	-0.05	4.36	0.07	0.03	0.07	0.02	13.87	13.87
1006	22:10:11	-16.40	-4.36	-0.04	-0.03	-0.04	-0.03	-13.87	-13.87

Line: DS01-205X  
LCT line number: 1038

Line Summary Statistics:									
Max-Abs-Mistie BSA ASA:	13.65	11.82	3.12	1.00	3.12	1.00	14.98	14.98	
Mean-Mistie BSA ASA:	-1.61	0.00	2.07	0.00	2.07	0.00	0.00	0.00	
Mean-Abs-Mistie BSA ASA:	6.85	5.24	2.14	0.40	2.14	0.40	8.19	8.19	
Rms-Mistie BSA ASA:	8.49	6.93	2.42	0.51	2.42	0.51	9.80	9.80	

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1006	7:22: 8	-7.40	-1.27	1.61	-0.35	1.61	-0.35	-14.98	-14.98
1008	10: 0:29	2.47	2.44	2.79	-0.42	2.79	-0.42	7.22	7.22
1007	10: 0:49	10.65	1.09	3.02	-0.17	3.02	-0.17	-5.23	-5.23
1009	12:36:16	-13.65	-11.82	3.12	1.00	3.12	1.00	13.26	13.26
1039	14:14:18	-0.10	9.56	-0.17	-0.05	-0.17	-0.05	-0.27	-0.27

Line: DS01-205XA  
LCT line number: 1039

Line Summary Statistics:									
Max-Abs-Mistie BSA ASA:	133.21	102.94	4.49	0.78	4.49	0.78	21.02	21.02	
Mean-Mistie BSA ASA:	9.44	0.00	2.40	0.00	2.40	0.00	0.00	0.41	
Mean-Abs-Mistie BSA ASA:	19.42	20.38	2.40	0.28	2.40	0.28	6.84	6.44	
Rms-Mistie BSA ASA:	39.71	32.66	2.71	0.36	2.71	0.36	8.74	8.34	

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1038	4:58:58	0.10	-9.56	0.17	0.05	0.17	0.05	0.27	0.27
1017	5:22:14	1.67	-2.04	3.00	-0.06	3.00	-0.06	4.41	4.41
1011	6:32:46	-20.37	-36.97	3.06	-0.35	3.06	-0.35	6.95	6.95
1012	7:50: 4	79.30	60.10	2.32	-0.15	2.32	-0.15	0.14	0.14
1013	8: 2: 6	133.21	102.94	3.11	-0.15	3.11	-0.15	-5.69	-5.69
1044	9: 4:55	4.43	-12.01	1.71	-0.18	1.71	-0.18	4.42	4.42
1014	10:19:30	-7.32	-16.81	2.61	-0.27	2.61	-0.27	7.80	7.80
1015	11:33:53	6.51	-6.28	3.24	-0.06	3.24	-0.06	21.02	21.02
1042	12:49:14	-3.14	-5.38	0.76	-0.14	0.76	-0.14	-2.83	-2.83
1041	14: 4:36	0.78	-7.97	1.44	-0.67	1.44	-0.67	5.38	5.38
1045	15:19:26	-10.38	-16.16	1.47	0.13	1.47	0.13	-13.43	-13.43
1040	15:19:28	-10.04	-10.61	0.47	0.11	0.47	0.11	-8.06	-8.06
1024	16:33:38	0.11	-6.09	3.52	0.67	3.52	0.67	1.19	1.19
1023	17:48:17	4.75	-4.70	4.28	0.48	4.28	0.48	3.17	3.17
1022	19: 1: 5	-11.92	-15.00	2.79	-0.19	2.79	-0.19	-11.62	-5.10
1021	20:43:33	-16.63	-13.45	4.49	0.78	4.49	0.78	-13.11	-13.11

Line: DS01-133  
LCT line number: 1040

Line Summary Statistics:									
Max-Abs-Mistie BSA ASA:	11.52	10.61	3.19	0.16	3.19	0.16	16.82	15.36	
Mean-Mistie BSA ASA:	6.74	0.00	1.38	0.00	1.38	0.00	0.00	2.35	
Mean-Abs-Mistie BSA ASA:	6.74	5.30	1.61	0.08	1.61	0.08	12.44	9.35	
Rms-Mistie BSA ASA:	7.99	6.26	1.90	0.10	1.90	0.10	13.16	10.02	

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	11: 2:54	4.62	-4.78	1.64	0.00	1.64	0.00	16.82	15.36
1004	12:28:25	11.52	-1.39	3.19	-0.05	3.19	-0.05	-16.63	-5.75
1039	13:53:24	10.04	10.61	-0.47	-0.11	-0.47	-0.11	8.06	8.06
1045	13:54:45	0.78	-4.43	1.14	0.16	1.14	0.16	-8.25	-8.25

Line: DS01-134  
LCT line number: 1041

Line Summary Statistics:									
Max-Abs-Mistie BSA ASA:	10.97	12.31	1.44	0.67	1.44	0.67	18.10	19.48	
Mean-Mistie BSA ASA:	1.08	0.00	-0.39	0.00	-0.39	0.00	0.00	-2.04	
Mean-Abs-Mistie BSA ASA:	4.01	6.61	0.89	0.42	0.89	0.42	7.58	9.29	
Rms-Mistie BSA ASA:	5.77	7.73	0.98	0.44	0.98	0.44	10.07	12.18	

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1019	12:43:10	-6.49	-12.31	-0.88	0.37	-0.88	0.37	18.10	18.10
1036	13:39:28	10.97	8.55	-0.36	-0.38	-0.36	-0.38	-1.45	-1.45
1039	14:38:36	-0.78	7.97	-1.44	0.67	-1.44	0.67	-5.38	-5.38
1004	15:48:43	1.77	-2.95	1.24	-0.25	1.24	-0.25	0.86	-2.02
1002	17: 0:52	-0.05	-1.27	-0.52	-0.41	-0.52	-0.41	-12.13	-19.48

Line: DS01-135  
LCT line number: 1042

Line Summary Statistics:									
Max-Abs-Mistie BSA ASA:	24.18	12.94	3.11	0.55	3.11	0.55	21.66	21.66	

Mean-Mistie BSA ASA:	7.60	0.00	0.81	0.00	0.81	0.00	0.00	-5.27
Mean-Abs-Mistie BSA ASA:	8.13	7.33	1.11	0.24	1.11	0.24	14.37	9.10
Rms-Mistie BSA ASA:	11.62	8.32	1.53	0.31	1.53	0.31	15.69	11.87

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	25:28:27	-1.32	-9.05	1.04	-0.06	1.04	-0.06	15.32	2.51
1004	26:41: 4	24.18	12.94	3.11	0.41	3.11	0.41	17.77	4.23
1039	27:54:22	3.14	5.38	-0.76	0.14	-0.76	0.14	2.83	2.83
1036	28:54:40	7.85	-1.08	0.67	-0.55	0.67	-0.55	-14.26	-14.26
1019	29:50:48	4.14	-8.19	0.00	0.06	0.00	0.06	-21.66	-21.66

Line: DS01-138A  
LCT line number: 1043  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 8.79 8.81 2.42 0.25 2.42 0.25 4.39 4.39  
Mean-Mistie BSA ASA: -2.79 0.00 1.08 0.00 1.08 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 3.08 5.88 1.11 0.17 1.11 0.17 2.93 2.93  
Rms-Mistie BSA ASA: 5.08 6.67 1.48 0.18 1.48 0.18 3.28 3.28

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1013	12:36:57	0.00	-8.81	2.42	0.15	2.42	0.15	3.49	3.49
1019	12:58:45	0.44	7.32	-0.05	0.10	-0.05	0.10	0.90	0.90
1036	13:58:10	-8.79	1.49	0.87	-0.25	0.87	-0.25	-4.39	-4.39

Line: DS01-138B  
LCT line number: 1044  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 15.74 13.07 1.71 0.37 1.71 0.37 4.42 4.42  
Mean-Mistie BSA ASA: -4.87 0.00 0.34 0.00 0.34 0.00 0.00 0.00  
Mean-Abs-Mistie BSA ASA: 5.25 9.22 1.19 0.19 1.19 0.19 2.43 2.73  
Rms-Mistie BSA ASA: 8.19 9.81 1.35 0.23 1.35 0.23 2.81 3.09

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1039	20:30:10	-4.43	12.01	-1.71	0.18	-1.71	0.18	-4.42	-4.42
1005	21:45:16	-15.74	-5.36	1.37	-0.37	1.37	-0.37	2.72	2.72
1002	23: 0:36	-0.06	6.42	0.11	0.00	0.11	0.00	2.13	3.35
1013	23:35:28	0.75	-13.07	1.58	0.20	1.58	0.20	-0.43	-0.43

Line: DS01-133A  
LCT line number: 1045  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 12.29 16.16 2.57 0.72 2.57 0.72 13.43 13.43  
Mean-Mistie BSA ASA: 2.94 0.00 0.12 0.00 0.12 0.00 0.00 1.34  
Mean-Abs-Mistie BSA ASA: 5.14 7.60 0.88 0.30 0.88 0.30 6.72 5.60  
Rms-Mistie BSA ASA: 6.74 8.85 1.22 0.39 1.22 0.39 8.30 7.46

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1002	9:55:29	5.59	1.40	0.52	-0.13	0.52	-0.13	-2.29	-3.76
1004	11: 9:53	12.29	4.59	2.57	0.32	2.57	0.32	-10.10	0.77
1039	12:24:26	10.38	16.16	-1.47	-0.13	-1.47	-0.13	13.43	13.43
1040	12:25:47	-0.78	4.43	-1.14	-0.16	-1.14	-0.16	8.25	8.25
1036	13:27:45	-5.07	-10.45	0.16	-0.63	0.16	-0.63	1.42	1.42
1019	14:30:28	-0.95	-9.74	0.22	0.72	0.22	0.72	-11.13	-11.13
1020	14:30:29	-0.89	-6.40	-0.05	0.00	-0.05	0.00	0.43	0.43

Line: DS01-107  
LCT line number: 1046  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 18.66 10.71 0.67 0.17 0.67 0.17 0.60 0.60  
Mean-Mistie BSA ASA: 13.45 0.00 0.41 0.00 0.41 0.00 0.00 -0.15  
Mean-Abs-Mistie BSA ASA: 13.45 10.71 0.41 0.17 0.41 0.17 0.60 0.45  
Rms-Mistie BSA ASA: 14.43 10.71 0.49 0.17 0.49 0.17 0.60 0.47

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1034	17:22: 1	8.24	-10.71	0.16	-0.17	0.16	-0.17	0.60	0.30
1035	19:15:15	18.66	10.71	0.67	0.17	0.67	0.17	-0.60	-0.60

Line: DS01-109  
LCT line number: 1047  
Line Summary Statistics:  
Max-Abs-Mistie BSA ASA: 4.61 3.21 0.17 0.03 0.17 0.03 1.61 1.61  
Mean-Mistie BSA ASA: -2.32 0.00 -0.05 0.00 -0.05 0.00 0.00 0.81  
Mean-Abs-Mistie BSA ASA: 2.32 3.21 0.12 0.03 0.12 0.03 1.61 0.81  
Rms-Mistie BSA ASA: 3.26 3.21 0.13 0.03 0.13 0.03 1.61 1.14

X-line	Time	B-WATR BSA	Mistie ASA	B-FAG BSA	Mistie ASA	B-3DBG BSA	Mistie ASA	C-CMAG BSA	Mistie ASA
1035	3:48:24	-4.61	3.21	0.07	0.03	0.07	0.03	1.61	1.61
1034	5:29:25	-0.03	-3.21	-0.17	-0.03	-0.17	-0.03	-1.61	0.00

Network Summary Statistics:  
Max-Abs-Mistie BSA ASA: 133.21 102.94 4.49 1.29 4.49 1.29 31.74 31.72  
Mean-Abs-Mistie BSA ASA: 5.71 6.24 1.31 0.30 1.31 0.30 4.19 3.51  
Rms-Mistie BSA ASA: 13.23 11.67 1.67 0.38 1.67 0.38 6.55 5.77  
Avg-Rms-Mistie BSA ASA: 8.35 7.51 1.56 0.34 1.56 0.34 5.11 4.48

## **APPENDIX 6**

### **SYSTEMATIC ADJUSTMENT REPORTS**

[FREE-AIR GRAVITY ADJUSTMENTS](#)

[3-D BOUGUER GRAVITY ADJUSTMENTS](#)

[MAGNETIC ANOMALY ADJUSTMENTS](#)

[BATHYMETRY ADJUSTMENTS](#)

## **FREE-AIR GRAVITY ADJUSTMENTS**

FUGRO-LCT INC.

SEISMIC AUSTRALIA  
OTWAY/SORELL BASIN  
OFFSHORE AUSTRALIA  
February 2002

# Systematic Adjustment Report

Database name : db10.merge/

Number of lines : 133

Channel name : B-FAG = Filtered Free-Air Gravity

Date : Feb 26 08:23:25 2002

Number of intersections in database : 521

Minimum number of intersections per line : 1

Intersection gradient penalty factor : 1.000

Line mistie standard deviation penalty factor : 1.000

Line mistie mean penalty factor : 1.000

Line mistie rms penalty factor : 1.000

Polynomial order for adjustment : 0

Processing sub-network: 1

Number of lines adjusted: 133

Lines in sub-network:

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81
82	83	84	85	86	1001	1002	1003	1004
1005	1006	1007	1008	1009	1010	1011	1012	1013
1014	1015	1016	1017	1018	1019	1020	1021	1022
1023	1024	1025	1026	1027	1028	1029	1030	1031
1032	1033	1034	1035	1036	1037	1038	1039	1040
1041	1042	1043	1044	1045	1046	1047		

Number of intersections used: 520

Damping factor: 0.

network rms adjustment: 1.576

Before-adjustment survey mistie statistics:

Absolute mean: 1.312  
Standard deviation: 1.656  
Rms: 1.668  
Range: 8.898  
Absolute maximum: 4.491

After-adjustment survey mistie statistics:

Absolute mean: 0.2973  
Standard deviation: 0.3816  
Rms: 0.3812  
Range: 2.378  
Absolute maximum: 1.288

Line detail report:

Before adj					After adj							
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
1	5	-0.33	1.55	1.42	3.49	2.30	1.47	0.00	0.38	0.34	0.90	0.56
2	5	-1.39	2.02	2.28	4.13	3.55	0.41	0.00	0.55	0.49	1.48	0.87
3	4	-0.67	1.45	1.42	3.44	2.35	1.33	0.00	0.37	0.32	0.90	0.51

4	6	-2.39	1.51	2.76	4.15	4.25	0.78	0.00	0.29	0.26	0.85	0.51
5	6	-1.68	1.18	2.00	2.77	3.02	0.07	0.00	0.46	0.42	1.27	0.78
6	13	0.42	0.69	0.79	2.96	1.56	0.18	0.00	0.38	0.37	1.42	0.72
7	12	-0.02	0.61	0.58	1.86	0.99	0.19	0.00	0.31	0.30	1.04	0.52
8	9	1.35	0.61	1.47	1.82	2.15	1.10	0.00	0.40	0.38	1.08	0.56
9	7	1.04	0.75	1.25	2.04	2.36	0.65	0.00	0.50	0.46	1.48	0.94
10	7	1.59	0.63	1.69	1.71	2.35	1.33	0.00	0.34	0.31	0.96	0.67
11	5	0.63	1.24	1.28	2.79	2.14	0.88	0.00	0.43	0.39	1.12	0.70
12	14	3.06	0.54	3.10	1.58	3.68	2.70	0.00	0.39	0.38	1.40	0.87
13	14	3.20	0.72	3.27	2.21	4.22	2.89	0.00	0.45	0.43	1.74	1.09
14	16	1.82	0.80	1.98	3.46	2.84	1.57	0.00	0.38	0.37	1.36	0.92
15	12	-0.02	1.12	1.07	3.78	1.97	0.32	0.00	0.47	0.45	1.52	0.89
16	7	0.47	1.34	1.33	3.49	1.81	0.49	0.00	0.47	0.43	1.48	0.76
17	3	-0.76	1.51	1.45	3.01	2.33	0.16	0.00	0.88	0.72	1.75	0.92
18	11	-0.82	1.11	1.34	3.95	3.10	0.51	0.00	0.30	0.28	1.05	0.57
19	13	-0.56	1.48	1.53	4.71	2.80	0.15	0.00	0.39	0.37	1.43	0.85
20	11	-1.07	1.09	1.49	3.82	3.35	0.22	0.00	0.48	0.46	1.76	1.09

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
21	9	-0.76	1.11	1.29	3.48	2.62	0.35	0.00	0.30	0.28	1.00	0.57
22	11	-1.43	1.39	1.95	4.72	3.60	0.61	0.00	0.45	0.43	1.87	0.94
23	17	0.75	0.58	0.94	2.29	1.49	0.45	0.00	0.31	0.30	0.95	0.62
24	16	0.56	1.08	1.18	3.83	1.93	0.31	0.00	0.54	0.52	1.95	1.02
25	16	0.93	0.75	1.18	3.17	2.28	0.73	0.00	0.34	0.32	1.35	0.74
26	4	-1.30	0.50	1.37	1.03	1.77	0.53	0.00	0.62	0.54	1.36	0.93
27	4	-0.68	0.40	0.76	0.73	1.06	0.09	0.00	0.48	0.41	1.04	0.62
28	4	-1.10	0.41	1.15	0.91	1.70	0.33	0.00	0.29	0.25	0.63	0.35
29	4	-1.28	0.44	1.33	1.06	1.81	0.51	0.00	0.36	0.31	0.78	0.51
30	4	-1.84	0.72	1.94	1.63	2.84	1.08	0.00	0.46	0.40	1.08	0.61
31	4	-1.72	0.44	1.76	1.01	2.14	0.95	0.00	0.48	0.41	1.06	0.67
32	4	-1.70	0.69	1.80	1.61	2.67	0.93	0.00	0.28	0.24	0.61	0.32
33	4	-1.48	0.59	1.57	1.35	2.33	0.72	0.00	0.18	0.15	0.41	0.22
34	4	1.05	0.57	1.16	1.27	1.89	1.82	0.00	0.46	0.40	0.94	0.56
35	4	-1.27	1.07	1.57	2.53	2.31	0.50	0.00	0.69	0.59	1.46	1.02
36	4	-0.41	0.79	0.80	1.83	1.45	0.35	0.00	0.25	0.22	0.56	0.33
37	8	-1.46	0.94	1.70	2.38	2.49	0.81	0.00	0.61	0.57	1.84	0.94
38	1	-0.07	0.00	0.00	0.00	0.07	0.84	0.00	0.00	0.00	0.00	0.00
39	2	-1.56	0.00	1.56	0.00	1.56	0.73	0.00	0.12	0.08	0.17	0.08
40	3	-1.43	0.88	1.60	1.62	2.43	0.09	0.00	0.38	0.31	0.75	0.38

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
41	3	-0.74	1.16	1.20	2.31	1.82	0.21	0.00	0.51	0.42	1.02	0.52
42	6	-1.82	0.67	1.92	1.41	2.36	1.16	0.00	0.31	0.29	0.93	0.54
43	4	-0.69	0.87	1.02	2.08	1.88	0.25	0.00	0.37	0.32	0.80	0.53
44	11	-1.51	1.34	1.97	4.36	3.69	0.62	0.00	0.33	0.32	1.01	0.54
45	7	-0.98	1.40	1.63	3.75	3.20	0.10	0.00	0.52	0.48	1.40	0.80
46	3	-1.28	0.74	1.42	1.49	2.02	0.61	0.00	0.47	0.38	0.93	0.50
47	2	-0.01	0.40	0.28	0.57	0.29	0.62	0.00	0.01	0.00	0.01	0.00
48	19	0.60	0.64	0.86	2.48	2.14	0.35	0.00	0.43	0.42	1.42	0.81
49	6	-1.29	0.90	1.53	2.36	2.08	0.22	0.00	0.36	0.33	1.04	0.65
50	7	2.59	0.50	2.63	1.25	3.26	2.19	0.00	0.24	0.22	0.70	0.39
51	10	1.93	1.29	2.28	4.50	3.37	2.08	0.00	0.48	0.46	1.48	0.78
52	5	2.52	1.40	2.81	3.28	4.41	3.35	0.00	0.58	0.52	1.32	0.70
53	8	3.32	0.75	3.39	1.95	4.25	3.59	0.00	0.28	0.26	0.85	0.49
54	7	2.55	1.15	2.76	3.33	4.38	2.10	0.00	0.76	0.70	1.82	0.92
55	5	2.87	0.88	2.98	2.09	3.88	2.52	0.00	0.40	0.36	1.13	0.58
56	7	0.62	1.19	1.26	3.35	1.89	0.75	0.00	0.33	0.31	0.93	0.60
57	6	-0.35	1.52	1.43	4.48	3.12	0.35	0.00	0.54	0.49	1.31	0.71
58	7	-0.57	1.35	1.37	3.76	2.44	0.44	0.00	0.61	0.56	1.89	1.03
59	7	-1.30	1.47	1.89	4.37	3.70	1.18	0.00	0.42	0.39	1.24	0.74
60	7	-0.87	1.38	1.55	4.41	3.20	0.96	0.00	0.27	0.25	0.77	0.44

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
61	6	-1.48	1.29	1.89	3.94	3.74	1.71	0.00	0.24	0.22	0.58	0.29
62	7	-1.15	1.63	1.90	4.72	3.69	0.61	0.00	0.46	0.42	1.16	0.60
63	7	-1.29	1.27	1.74	4.06	3.88	1.27	0.00	0.41	0.38	1.01	0.60
64	13	-0.75	1.46	1.59	5.13	3.61	0.04	0.00	0.51	0.49	1.79	0.92
65	5	-2.09	1.63	2.55	3.80	4.22	0.68	0.00	0.47	0.42	1.26	0.65
66	7	-1.55	1.15	1.88	2.92	3.36	0.41	0.00	0.36	0.34	1.08	0.56
67	4	-2.45	1.47	2.76	3.46	4.08	0.74	0.00	0.52	0.45	0.92	0.47
68	5	-1.22	1.91	2.10	5.18	4.38	1.38	0.00	0.55	0.49	1.35	0.90
69	11	-1.49	1.49	2.06	4.51	3.55	0.65	0.00	0.18	0.17	0.56	0.36
70	3	-1.30	1.69	1.89	3.34	2.84	0.67	0.00	0.64	0.53	1.24	0.72
71	11	2.58	0.87	2.71	2.53	3.74	2.16	0.00	0.45	0.43	1.51	0.90
72	35	0.95	0.89	1.29	3.75	2.66	0.74	0.00	0.57	0.56	2.06	1.03
73	10	1.39	1.01	1.69	2.72	2.72	1.59	0.00	0.33	0.31	1.35	0.68
74	28	1.04	0.73	1.26	2.27	2.10	0.91	0.00	0.38	0.38	1.66	0.86
75	20	0.08	0.76	0.75	2.79	1.68	0.32	0.00	0.42	0.41	1.89	1.29
76	5	-1.34	0.77	1.50	1.80	2.23	0.05	0.00	0.25	0.22	0.64	0.38
77	11	-1.51	1.39	2.00	4.54	3.29	0.77	0.00	0.38	0.36	1.18	0.71
78	10	-0.26	0.78	0.79	2.82	1.58	0.14	0.00	0.65	0.62	2.20	1.29
79	7	-2.26	1.34	2.58	3.68	4.18	0.98	0.00	0.57	0.53	1.73	0.92



80| 10| 0.79| 0.72| 1.04| 2.18| 1.81| 0.44| 0.00| 0.36| 0.35| 1.21| 0.71

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
81	4	-1.18	1.77	1.93	3.86	3.27	0.67	0.00	0.50	0.43	1.06	0.70
82	3	0.57	0.63	0.77	1.22	1.28	0.09	0.00	0.65	0.53	1.26	0.71
83	4	1.10	0.81	1.30	1.95	2.15	0.67	0.00	0.23	0.20	0.55	0.29
84	4	0.14	1.19	1.04	2.80	1.53	0.33	0.00	0.40	0.34	0.96	0.50
85	7	-1.02	1.90	2.03	5.73	4.19	0.57	0.00	0.23	0.21	0.68	0.37
86	4	-0.90	0.78	1.12	1.90	1.81	1.36	0.00	0.22	0.19	0.51	0.29
1001	4	1.97	1.03	2.16	2.40	2.91	1.17	0.00	0.56	0.49	1.28	0.78
1002	26	0.37	0.88	0.94	3.33	1.69	0.13	0.00	0.28	0.27	1.24	0.78
1003	15	-0.03	0.88	0.85	2.71	1.67	0.46	0.00	0.37	0.35	1.30	0.72
1004	33	-1.23	0.82	1.47	3.31	3.19	1.74	0.00	0.27	0.27	1.04	0.60
1005	7	-0.82	0.50	0.94	1.26	1.43	1.76	0.00	0.27	0.25	0.88	0.51
1006	3	-1.05	0.95	1.31	1.65	1.61	0.20	0.00	0.36	0.29	0.72	0.37
1007	3	-2.28	1.17	2.47	2.09	3.02	1.44	0.00	0.37	0.30	0.68	0.43
1008	3	-1.84	1.74	2.33	3.08	2.91	1.46	0.00	0.37	0.30	0.70	0.42
1009	6	-0.67	1.75	1.73	4.55	3.12	0.37	0.00	0.65	0.60	1.71	1.00
1010	1	-0.21	0.00	0.00	0.00	0.21	0.35	0.00	0.00	0.00	0.00	0.00
1011	6	-1.65	1.24	2.00	3.39	3.06	1.55	0.00	0.26	0.24	0.67	0.35
1012	6	-0.70	1.33	1.40	3.40	2.32	0.60	0.00	0.40	0.37	1.21	0.69
1013	8	-1.58	1.28	1.99	3.98	3.11	1.41	0.00	0.31	0.29	1.03	0.53
1014	6	-1.12	1.19	1.56	3.37	2.61	1.02	0.00	0.40	0.36	1.10	0.73

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
1015	6	-1.54	1.13	1.85	3.16	3.24	1.44	0.00	0.46	0.42	1.22	0.64
1016	7	0.83	0.97	1.22	2.42	1.95	0.13	0.00	0.57	0.52	1.44	0.73
1017	5	-1.34	1.39	1.83	3.49	3.00	1.20	0.00	0.29	0.26	0.80	0.44
1018	1	-2.40	0.00	0.00	0.00	2.40	1.23	0.00	0.00	0.00	0.00	0.00
1019	14	1.48	1.14	1.85	3.17	2.95	1.01	0.00	0.39	0.37	1.25	0.72
1020	5	1.08	1.18	1.51	2.77	2.57	0.57	0.00	0.28	0.25	0.70	0.46
1021	4	-1.78	1.90	2.42	4.37	4.49	1.85	0.00	0.58	0.50	1.39	0.78
1022	5	-1.18	1.27	1.64	3.41	2.79	1.12	0.00	0.18	0.16	0.37	0.19
1023	5	-2.00	1.59	2.46	4.36	4.28	1.94	0.00	0.29	0.26	0.76	0.48
1024	5	-1.04	1.62	1.79	4.55	3.52	0.98	0.00	0.44	0.39	1.13	0.67
1025	8	-1.41	1.97	2.33	5.45	4.41	0.47	0.00	0.54	0.51	1.70	1.03
1026	6	-0.58	1.43	1.43	4.27	2.99	0.56	0.00	0.27	0.25	0.69	0.46
1027	11	-0.62	1.46	1.53	4.61	2.83	0.01	0.00	0.16	0.15	0.53	0.28
1028	8	-0.08	1.34	1.26	4.17	2.56	0.27	0.00	0.22	0.21	0.63	0.36
1029	6	-0.33	0.64	0.67	1.71	1.49	0.07	0.00	0.35	0.32	1.00	0.54
1030	3	-0.39	0.31	0.46	0.55	0.58	0.46	0.00	0.33	0.27	0.67	0.34
1031	4	-0.51	0.50	0.67	1.15	1.03	0.38	0.00	0.26	0.22	0.54	0.33
1032	2	-0.36	0.49	0.50	0.69	0.71	0.69	0.00	0.37	0.26	0.52	0.26
1033	5	-1.26	0.50	1.34	1.19	1.97	1.30	0.00	0.27	0.24	0.63	0.34
1034	11	0.03	0.60	0.57	1.84	1.06	0.24	0.00	0.26	0.24	0.66	0.34

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
1035	30	0.04	0.63	0.62	2.98	1.56	0.41	0.00	0.30	0.29	1.02	0.54
1036	22	0.20	0.80	0.80	2.74	1.56	0.26	0.00	0.37	0.36	1.24	0.63
1037	2	0.02	0.08	0.06	0.11	0.07	0.22	0.00	0.04	0.03	0.05	0.03
1038	5	2.07	1.39	2.42	3.28	3.12	1.75	0.00	0.57	0.51	1.41	1.00
1039	16	2.40	1.29	2.71	4.32	4.49	1.86	0.00	0.38	0.36	1.45	0.78
1040	4	1.38	1.51	1.90	3.66	3.19	1.50	0.00	0.11	0.10	0.27	0.16
1041	5	-0.39	1.00	0.98	2.68	1.44	0.24	0.00	0.49	0.44	1.07	0.67
1042	5	0.81	1.45	1.53	3.86	3.11	0.96	0.00	0.35	0.31	0.96	0.55
1043	3	1.08	1.25	1.48	2.47	2.42	0.86	0.00	0.22	0.18	0.40	0.25
1044	4	0.34	1.51	1.35	3.28	1.71	0.02	0.00	0.26	0.23	0.57	0.37
1045	7	0.12	1.31	1.22	4.04	2.57	0.52	0.00	0.42	0.39	1.35	0.72
1046	2	0.41	0.36	0.49	0.51	0.67	0.08	0.00	0.24	0.17	0.34	0.17
1047	2	-0.05	0.17	0.13	0.24	0.17	0.38	0.00	0.05	0.03	0.07	0.03

## **3-D BOUGUER GRAVITY ADJUSTMENTS**

FUGRO-LCT INC.

SEISMIC AUSTRALIA  
OTWAY/SORELL BASIN  
OFFSHORE AUSTRALIA  
February 2002

# Systematic Adjustment Report

Database name : db10.merge/

Number of lines : 133

Channel name : B-3DBG = Filtered 3-D Bouguer Gravity

Date : Feb 26 08:23:54 2002

Number of intersections in database : 521

Minimum number of intersections per line : 1

Intersection gradient penalty factor : 1.000

Line mistie standard deviation penalty factor : 1.000

Line mistie mean penalty factor : 1.000

Line mistie rms penalty factor : 1.000

Polynomial order for adjustment : 0

Processing sub-network: 1

Number of lines adjusted: 133

Lines in sub-network:

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81
82	83	84	85	86	1001	1002	1003	1004
1005	1006	1007	1008	1009	1010	1011	1012	1013
1014	1015	1016	1017	1018	1019	1020	1021	1022
1023	1024	1025	1026	1027	1028	1029	1030	1031
1032	1033	1034	1035	1036	1037	1038	1039	1040
1041	1042	1043	1044	1045	1046	1047		

Number of intersections used: 520

Damping factor: 0.

network rms adjustment: 1.576

Before-adjustment survey mistie statistics:

Absolute mean: 1.312  
Standard deviation: 1.656  
Rms: 1.668  
Range: 8.898  
Absolute maximum: 4.491

After-adjustment survey mistie statistics:

Absolute mean: 0.2973  
Standard deviation: 0.3816  
Rms: 0.3812  
Range: 2.378  
Absolute maximum: 1.288

## Line detail report:

Line	Int	Before adj				After adj			
		Mean	Std dev	RMS	Range	Abs max	Mean	Std dev	Abs max
1	5	-0.33	1.55	1.42	3.49	2.30	0.00	0.38	0.56
2	5	-1.39	2.02	2.28	4.13	3.55	0.00	0.55	0.87
3	4	-0.67	1.45	1.42	3.44	2.35	0.00	0.37	0.51

4	6	-2.39	1.51	2.76	4.14	4.25	0.78	0.00	0.29	0.26	0.85	0.51
5	6	-1.68	1.18	2.00	2.77	3.02	0.07	0.00	0.46	0.42	1.27	0.78
6	13	0.42	0.69	0.79	2.96	1.56	0.18	0.00	0.38	0.37	1.42	0.72
7	12	-0.02	0.61	0.58	1.86	0.99	0.19	0.00	0.31	0.30	1.04	0.52
8	9	1.35	0.61	1.47	1.82	2.15	1.10	0.00	0.40	0.38	1.08	0.56
9	7	1.04	0.75	1.25	2.04	2.36	0.65	0.00	0.50	0.46	1.48	0.94
10	7	1.59	0.63	1.69	1.71	2.35	1.33	0.00	0.34	0.31	0.96	0.67
11	5	0.63	1.24	1.28	2.79	2.14	0.88	0.00	0.43	0.39	1.12	0.70
12	14	3.06	0.54	3.10	1.58	3.68	2.70	0.00	0.39	0.38	1.40	0.87
13	14	3.20	0.72	3.27	2.21	4.22	2.89	0.00	0.45	0.43	1.74	1.09
14	16	1.82	0.80	1.98	3.46	2.84	1.57	0.00	0.38	0.37	1.36	0.92
15	12	-0.02	1.12	1.07	3.78	1.97	0.32	0.00	0.47	0.45	1.52	0.89
16	7	0.47	1.34	1.33	3.49	1.81	0.49	0.00	0.47	0.43	1.48	0.76
17	3	-0.76	1.51	1.45	3.01	2.33	0.17	0.00	0.88	0.72	1.75	0.92
18	11	-0.82	1.11	1.34	3.95	3.10	0.51	0.00	0.30	0.28	1.05	0.57
19	13	-0.56	1.48	1.53	4.71	2.80	0.15	0.00	0.39	0.37	1.43	0.85
20	11	-1.07	1.09	1.49	3.82	3.35	0.22	0.00	0.48	0.46	1.76	1.09

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
21	9	-0.76	1.11	1.29	3.48	2.62	0.35	0.00	0.30	0.28	1.00	0.57
22	11	-1.43	1.39	1.95	4.72	3.60	0.61	0.00	0.45	0.43	1.87	0.94
23	17	0.75	0.58	0.94	2.29	1.49	0.45	0.00	0.31	0.30	0.95	0.62
24	16	0.56	1.08	1.18	3.83	1.93	0.31	0.00	0.54	0.52	1.95	1.02
25	16	0.93	0.75	1.18	3.17	2.28	0.73	0.00	0.34	0.32	1.35	0.74
26	4	-1.30	0.50	1.37	1.03	1.77	0.53	0.00	0.62	0.54	1.36	0.93
27	4	-0.68	0.40	0.76	0.73	1.06	0.09	0.00	0.48	0.41	1.04	0.62
28	4	-1.10	0.41	1.15	0.91	1.70	0.33	0.00	0.29	0.25	0.62	0.35
29	4	-1.28	0.44	1.33	1.06	1.81	0.51	0.00	0.36	0.31	0.78	0.51
30	4	-1.84	0.71	1.94	1.63	2.84	1.08	0.00	0.46	0.40	1.08	0.60
31	4	-1.72	0.44	1.76	1.01	2.14	0.95	0.00	0.48	0.41	1.06	0.67
32	4	-1.70	0.69	1.80	1.61	2.67	0.93	0.00	0.28	0.24	0.61	0.32
33	4	-1.48	0.59	1.57	1.35	2.33	0.72	0.00	0.18	0.15	0.41	0.22
34	4	1.05	0.57	1.16	1.27	1.89	1.82	0.00	0.46	0.40	0.94	0.56
35	4	-1.27	1.07	1.57	2.53	2.31	0.50	0.00	0.69	0.60	1.46	1.02
36	4	-0.41	0.79	0.80	1.83	1.45	0.35	0.00	0.25	0.22	0.56	0.33
37	8	-1.46	0.94	1.70	2.38	2.49	0.81	0.00	0.61	0.57	1.84	0.94
38	1	-0.07	0.00	0.00	0.00	0.07	0.84	0.00	0.00	0.00	0.00	0.00
39	2	-1.56	0.00	1.56	0.00	1.56	0.73	0.00	0.12	0.08	0.17	0.08
40	3	-1.43	0.88	1.60	1.62	2.43	0.09	0.00	0.38	0.31	0.75	0.38

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
41	3	-0.74	1.16	1.20	2.31	1.82	0.21	0.00	0.51	0.42	1.02	0.52
42	6	-1.82	0.67	1.92	1.41	2.36	1.16	0.00	0.31	0.29	0.93	0.54
43	4	-0.69	0.87	1.02	2.08	1.88	0.25	0.00	0.37	0.32	0.80	0.53
44	11	-1.51	1.34	1.97	4.36	3.69	0.62	0.00	0.33	0.32	1.01	0.54
45	7	-0.98	1.40	1.63	3.75	3.20	0.10	0.00	0.52	0.48	1.40	0.80
46	3	-1.28	0.74	1.42	1.49	2.02	0.61	0.00	0.47	0.38	0.93	0.50
47	2	-0.01	0.40	0.28	0.57	0.29	0.62	0.00	0.01	0.01	0.01	0.01
48	19	0.60	0.64	0.86	2.48	2.14	0.35	0.00	0.43	0.42	1.42	0.81
49	6	-1.29	0.90	1.53	2.36	2.08	0.22	0.00	0.36	0.33	1.04	0.65
50	7	2.59	0.50	2.63	1.25	3.26	2.19	0.00	0.24	0.22	0.69	0.39
51	10	1.93	1.29	2.28	4.50	3.37	2.08	0.00	0.48	0.46	1.48	0.78
52	5	2.52	1.40	2.81	3.28	4.41	3.35	0.00	0.58	0.52	1.32	0.70
53	8	3.32	0.75	3.39	1.95	4.25	3.59	0.00	0.28	0.26	0.85	0.49
54	7	2.55	1.15	2.76	3.33	4.38	2.10	0.00	0.76	0.70	1.82	0.92
55	5	2.87	0.88	2.98	2.09	3.88	2.52	0.00	0.40	0.36	1.13	0.58
56	7	0.62	1.19	1.26	3.35	1.89	0.75	0.00	0.33	0.31	0.93	0.60
57	6	-0.35	1.52	1.43	4.48	3.12	0.35	0.00	0.54	0.49	1.31	0.71
58	7	-0.57	1.35	1.37	3.76	2.44	0.44	0.00	0.61	0.56	1.89	1.03
59	7	-1.30	1.47	1.89	4.37	3.70	1.18	0.00	0.42	0.39	1.24	0.74
60	7	-0.87	1.38	1.55	4.41	3.20	0.96	0.00	0.27	0.25	0.77	0.44

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
61	6	-1.48	1.29	1.89	3.94	3.74	1.71	0.00	0.24	0.22	0.58	0.29
62	7	-1.15	1.63	1.90	4.72	3.69	0.61	0.00	0.46	0.42	1.16	0.60
63	7	-1.29	1.27	1.74	4.06	3.88	1.27	0.00	0.41	0.38	1.01	0.60
64	13	-0.75	1.46	1.59	5.13	3.61	0.04	0.00	0.51	0.49	1.79	0.92
65	5	-2.09	1.63	2.55	3.80	4.22	0.68	0.00	0.47	0.42	1.26	0.65
66	7	-1.55	1.15	1.88	2.92	3.36	0.41	0.00	0.36	0.34	1.08	0.56
67	4	-2.45	1.47	2.76	3.46	4.08	0.74	0.00	0.52	0.45	0.92	0.47
68	5	-1.22	1.91	2.10	5.18	4.38	1.38	0.00	0.55	0.49	1.35	0.90
69	11	-1.49	1.49	2.06	4.51	3.55	0.65	0.00	0.18	0.17	0.56	0.35
70	3	-1.30	1.69	1.89	3.34	2.84	0.67	0.00	0.64	0.53	1.24	0.72
71	11	2.58	0.87	2.71	2.53	3.74	2.16	0.00	0.45	0.42	1.51	0.90
72	35	0.95	0.89	1.29	3.75	2.66	0.74	0.00	0.57	0.56	2.06	1.03
73	10	1.39	1.01	1.69	2.72	2.72	1.59	0.00	0.33	0.31	1.35	0.68
74	28	1.04	0.73	1.26	2.28	2.10	0.91	0.00	0.38	0.38	1.66	0.86
75	20	0.08	0.76	0.75	2.79	1.68	0.32	0.00	0.42	0.41	1.89	1.29
76	5	-1.34	0.77	1.50	1.80	2.23	0.05	0.00	0.25	0.22	0.64	0.38
77	11	-1.51	1.39	2.00	4.54	3.29	0.77	0.00	0.38	0.36	1.18	0.71
78	10	-0.26	0.78	0.79	2.82	1.58	0.14	0.00	0.65	0.62	2.20	1.29
79	7	-2.26	1.34	2.58	3.68	4.18	0.98	0.00	0.57	0.53	1.73	0.92

80| 10| 0.79| 0.72| 1.04| 2.18| 1.81| 0.44| 0.00| 0.36| 0.35| 1.21| 0.71

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
81	4	-1.18	1.77	1.93	3.86	3.27	0.67	0.00	0.50	0.43	1.06	0.70
82	3	0.57	0.63	0.77	1.22	1.28	0.10	0.00	0.65	0.53	1.26	0.71
83	4	1.10	0.81	1.30	1.95	2.15	0.67	0.00	0.23	0.20	0.55	0.29
84	4	0.14	1.19	1.04	2.80	1.53	0.33	0.00	0.40	0.34	0.96	0.50
85	7	-1.02	1.90	2.03	5.73	4.19	0.57	0.00	0.23	0.21	0.68	0.37
86	4	-0.90	0.78	1.12	1.90	1.81	1.36	0.00	0.21	0.19	0.51	0.29
1001	4	1.97	1.03	2.16	2.40	2.91	1.17	0.00	0.56	0.49	1.28	0.78
1002	26	0.37	0.88	0.94	3.33	1.69	0.13	0.00	0.28	0.27	1.24	0.78
1003	15	-0.03	0.88	0.85	2.71	1.67	0.46	0.00	0.37	0.35	1.30	0.72
1004	33	-1.23	0.82	1.47	3.32	3.19	1.74	0.00	0.27	0.27	1.04	0.60
1005	7	-0.82	0.50	0.94	1.26	1.43	1.76	0.00	0.27	0.25	0.88	0.51
1006	3	-1.05	0.95	1.31	1.65	1.61	0.21	0.00	0.36	0.29	0.72	0.37
1007	3	-2.28	1.17	2.47	2.09	3.02	1.44	0.00	0.37	0.30	0.68	0.43
1008	3	-1.84	1.74	2.33	3.08	2.91	1.46	0.00	0.37	0.30	0.70	0.42
1009	6	-0.67	1.75	1.73	4.55	3.12	0.37	0.00	0.65	0.60	1.71	1.00
1010	1	-0.21	0.00	0.00	0.00	0.21	0.35	0.00	0.00	0.00	0.00	0.00
1011	6	-1.65	1.24	2.00	3.39	3.06	1.55	0.00	0.26	0.24	0.67	0.35
1012	6	-0.70	1.33	1.40	3.40	2.32	0.60	0.00	0.40	0.37	1.21	0.69
1013	8	-1.58	1.28	1.99	3.98	3.11	1.41	0.00	0.31	0.29	1.03	0.53
1014	6	-1.12	1.19	1.56	3.37	2.61	1.02	0.00	0.40	0.36	1.10	0.73

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
1015	6	-1.54	1.13	1.85	3.16	3.24	1.44	0.00	0.46	0.42	1.22	0.64
1016	7	0.83	0.97	1.22	2.42	1.95	0.13	0.00	0.57	0.52	1.44	0.73
1017	5	-1.34	1.39	1.83	3.49	3.00	1.20	0.00	0.29	0.26	0.80	0.44
1018	1	-2.40	0.00	0.00	0.00	2.40	1.23	0.00	0.00	0.00	0.00	0.00
1019	14	1.48	1.14	1.85	3.17	2.95	1.01	0.00	0.39	0.37	1.25	0.72
1020	5	1.08	1.18	1.51	2.77	2.57	0.57	0.00	0.28	0.25	0.70	0.46
1021	4	-1.78	1.90	2.42	4.37	4.49	1.85	0.00	0.58	0.50	1.39	0.78
1022	5	-1.18	1.27	1.64	3.41	2.79	1.12	0.00	0.18	0.16	0.37	0.19
1023	5	-2.00	1.59	2.46	4.36	4.28	1.94	0.00	0.29	0.26	0.76	0.48
1024	5	-1.04	1.62	1.79	4.55	3.52	0.98	0.00	0.44	0.39	1.13	0.67
1025	8	-1.41	1.97	2.33	5.45	4.41	0.47	0.00	0.54	0.51	1.70	1.03
1026	6	-0.58	1.43	1.43	4.27	2.99	0.56	0.00	0.27	0.25	0.69	0.46
1027	11	-0.62	1.46	1.53	4.61	2.83	0.01	0.00	0.16	0.15	0.53	0.28
1028	8	-0.08	1.34	1.26	4.17	2.56	0.27	0.00	0.22	0.21	0.63	0.36
1029	6	-0.33	0.64	0.67	1.71	1.49	0.07	0.00	0.35	0.32	1.00	0.54
1030	3	-0.39	0.31	0.46	0.55	0.58	0.46	0.00	0.33	0.27	0.67	0.34
1031	4	-0.51	0.50	0.67	1.15	1.03	0.38	0.00	0.26	0.22	0.54	0.33
1032	2	-0.36	0.49	0.50	0.69	0.71	0.69	0.00	0.37	0.26	0.52	0.26
1033	5	-1.26	0.50	1.34	1.19	1.97	1.30	0.00	0.27	0.24	0.63	0.34
1034	11	0.03	0.60	0.57	1.84	1.06	0.24	0.00	0.26	0.24	0.66	0.34

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
1035	30	0.04	0.63	0.62	2.98	1.56	0.41	0.00	0.30	0.29	1.02	0.54
1036	22	0.20	0.80	0.80	2.74	1.56	0.26	0.00	0.37	0.36	1.24	0.63
1037	2	0.02	0.08	0.06	0.11	0.07	0.22	0.00	0.04	0.03	0.05	0.03
1038	5	2.07	1.39	2.42	3.28	3.12	1.75	0.00	0.57	0.51	1.42	1.00
1039	16	2.40	1.29	2.71	4.32	4.49	1.86	0.00	0.38	0.36	1.45	0.78
1040	4	1.38	1.51	1.90	3.66	3.19	1.50	0.00	0.11	0.10	0.27	0.16
1041	5	-0.39	1.00	0.98	2.68	1.44	0.24	0.00	0.49	0.44	1.07	0.67
1042	5	0.81	1.45	1.53	3.86	3.11	0.96	0.00	0.35	0.31	0.96	0.55
1043	3	1.08	1.25	1.48	2.47	2.42	0.86	0.00	0.22	0.18	0.40	0.25
1044	4	0.34	1.51	1.35	3.28	1.71	0.02	0.00	0.26	0.23	0.57	0.37
1045	7	0.12	1.31	1.22	4.04	2.57	0.52	0.00	0.42	0.39	1.35	0.72
1046	2	0.41	0.36	0.49	0.51	0.67	0.08	0.00	0.24	0.17	0.34	0.17
1047	2	-0.05	0.17	0.13	0.24	0.17	0.38	0.00	0.05	0.03	0.07	0.03

# **MAGNETIC ANOMALY ADJUSTMENTS**

FUGRO-LCT INC.

SEISMIC AUSTRALIA  
OTWAY/SORELL BASIN  
OFFSHORE AUSTRALIA  
February 2002

Systematic Adjustment Report

Database name : ../db10.merge/

Number of lines : 133

Channel name : C-CMAG = Filtered Corrected Magnetic Anomaly

Date : Feb 20 13:35:07 2002

Number of intersections in database : 521

Minimum number of intersections per line : 1

explicit line weights read from file:  
hold.mag

LCT #	weight
1	HOLD FIXED
2	HOLD FIXED
3	HOLD FIXED
4	HOLD FIXED
5	HOLD FIXED
6	HOLD FIXED
7	HOLD FIXED
8	HOLD FIXED
9	HOLD FIXED
10	HOLD FIXED
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Intersection gradient penalty factor : 1.000

Line mistie standard deviation penalty factor : 1.000

Line mistie mean penalty factor : 1.000

Line mistie rms penalty factor : 1.000

Polynomial order for adjustment : 10

Following lines deleted for less than minimum intersections:



Line: 38 : 0 intersections  
Line: 56 : 0 intersections

Processing sub-network: 1

Number of lines adjusted: 128

Lines in sub-network:

1	2	3	4	5	6	7	8	9
10	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28
29	30	31	32	33	35	36	37	39
40	41	42	43	44	45	46	47	48
50	51	52	53	54	55	57	58	59
60	61	62	63	64	65	66	67	68
69	70	71	72	73	74	75	76	77
78	79	80	81	82	83	84	85	86
1001	1002	1003	1004	1005	1006	1007	1008	1009
1010	1011	1012	1013	1014	1015	1016	1017	1018
1019	1020	1021	1022	1023	1024	1025	1026	1027
1028	1029	1030	1031	1032	1033	1034	1035	1036
1037	1038	1039	1040	1041	1042	1043	1044	1045
1046	1047							

Number of intersections used: 486

Damping factor: 0.

network rms adjustment: 3.068

Before-adjustment survey mistie statistics:

Absolute mean: 4.193  
Standard deviation: 6.554  
Rms: 6.548  
Range: 63.45  
Absolute maximum: 31.74

After-adjustment survey mistie statistics:

Absolute mean: 3.509  
Standard deviation: 5.777  
Rms: 5.772  
Range: 60.57  
Absolute maximum: 31.72

Line detail report:

Before adj								After adj					
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max	
1	5	1.30	3.12	3.08	7.17	5.55	0.00	1.30	3.12	3.08	7.17	5.55	
2	5	2.67	6.32	6.25	15.62	11.65	0.00	2.67	6.32	6.25	15.62	11.65	
3	4	-1.17	2.03	2.11	4.76	4.03	0.00	-1.17	2.03	2.11	4.76	4.03	
4	5	-0.43	2.28	2.09	5.02	3.20	0.00	-0.43	2.28	2.09	5.02	3.20	
5	6	-3.17	9.31	9.07	27.42	20.33	0.00	-3.17	9.31	9.07	27.42	20.33	
6	12	0.34	2.77	2.67	9.30	5.24	0.00	0.21	2.39	2.29	8.66	4.59	
7	11	-1.85	6.17	6.17	22.35	19.03	0.00	-2.65	5.91	6.22	20.53	19.03	
8	8	-0.86	5.71	5.41	20.97	12.22	0.00	-1.65	4.65	4.65	16.40	12.22	
9	6	-3.12	3.57	4.51	9.61	8.53	0.00	-1.76	2.48	2.87	7.22	6.14	
10	6	-4.38	9.01	9.32	24.37	20.12	0.00	-0.97	4.72	4.41	11.46	7.21	
12	14	-0.24	4.85	4.68	16.28	11.06	0.00	0.00	4.69	4.52	16.24	11.06	
13	14	-1.64	9.49	9.29	26.77	13.70	0.00	-2.57	8.42	8.51	26.77	13.70	
14	15	-0.38	3.68	3.58	13.46	7.11	0.00	-0.38	3.68	3.58	13.46	7.11	
15	12	1.07	3.29	3.33	13.51	8.86	0.00	0.08	2.13	2.04	8.30	4.65	
16	7	-0.55	1.60	1.58	4.65	2.75	0.00	-0.77	1.45	1.55	4.65	2.75	
17	3	1.03	8.09	6.69	15.66	10.04	0.00	1.03	8.09	6.69	15.66	10.04	
18	11	-0.18	2.73	2.61	9.77	7.15	0.00	-0.49	2.56	2.49	9.62	7.15	
19	13	1.31	6.94	6.80	27.10	19.03	0.00	1.80	6.74	6.72	27.10	19.03	
20	6	-0.93	11.11	10.19	31.50	20.12	10.20	-0.04	3.55	3.24	10.17	5.99	
21	9	0.56	2.26	2.21	6.77	3.64	0.00	0.56	2.26	2.21	6.77	3.64	

Before adj								After adj					
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max	
22	11	-0.82	5.63	5.43	18.26	11.06	0.00	-0.82	5.63	5.43	18.26	11.06	
23	16	-0.40	2.08	2.05	7.71	4.73	0.00	-0.40	2.08	2.05	7.71	4.73	
24	15	-0.41	4.59	4.45	17.19	10.04	0.00	-0.41	4.59	4.45	17.19	10.04	
25	14	0.43	1.95	1.93	7.47	4.17	0.00	0.43	1.95	1.93	7.47	4.17	
26	4	-1.23	7.24	6.39	16.42	9.32	0.00	-1.23	7.24	6.39	16.42	9.32	
27	4	-1.21	1.75	1.94	3.96	3.30	0.00	-1.21	1.75	1.94	3.96	3.30	
28	4	-0.84	2.06	1.97	4.93	2.91	0.00	-0.84	2.06	1.97	4.93	2.91	
29	4	-0.08	0.23	0.22	0.57	0.36	0.00	-0.08	0.23	0.22	0.57	0.36	

30	4	1.05	2.25	2.22	5.37	3.30	0.00	1.05	2.25	2.22	5.37	3.30
31	4	0.57	2.12	1.92	4.88	3.63	0.00	0.57	2.12	1.92	4.88	3.63
32	4	1.38	3.73	3.51	8.24	6.35	0.00	1.38	3.73	3.51	8.24	6.35
33	4	0.47	3.53	3.09	7.50	4.80	0.00	0.47	3.53	3.09	7.50	4.80
35	4	0.26	2.35	2.05	5.12	2.97	0.00	0.26	2.35	2.05	5.12	2.97
36	4	0.96	1.31	1.49	2.96	2.67	0.00	0.96	1.31	1.49	2.96	2.67
37	8	-0.18	1.50	1.42	4.82	3.00	0.00	-0.18	1.50	1.42	4.82	3.00
39	2	0.50	0.94	0.83	1.33	1.16	0.00	0.50	0.94	0.83	1.33	1.16
40	3	2.78	6.48	5.98	12.05	10.18	0.00	2.78	6.48	5.98	12.05	10.18
41	3	-0.40	1.18	1.04	2.04	1.08	0.00	-0.40	1.18	1.04	2.04	1.08
42	5	-0.13	3.86	3.45	10.39	6.14	0.00	-0.13	3.86	3.45	10.39	6.14
43	4	0.67	1.43	1.41	3.33	2.00	0.00	0.67	1.43	1.41	3.33	2.00

Before adj								After adj					
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max	
44	11	2.25	3.76	4.24	11.86	8.53	4.20	0.00	0.47	0.45	1.64	0.96	
45	7	2.62	4.12	4.63	11.46	11.55	0.00	2.62	4.12	4.63	11.46	11.55	
46	3	-0.53	2.01	1.72	3.70	1.92	0.00	-0.53	2.01	1.72	3.70	1.92	
47	2	-3.24	0.71	3.28	1.00	3.75	0.00	-3.24	0.71	3.28	1.00	3.75	
48	17	0.27	2.35	2.29	8.81	5.44	0.00	0.34	2.30	2.26	8.29	5.44	
50	6	10.92	13.78	16.66	33.53	31.72	0.00	10.92	13.78	16.66	33.53	31.72	
51	9	0.13	1.36	1.29	3.74	2.48	0.00	-0.03	1.23	1.16	3.74	2.48	
52	5	0.44	2.07	1.91	5.51	3.38	0.00	0.44	2.07	1.91	5.51	3.38	
53	7	-1.10	5.30	5.03	15.60	11.65	0.00	-1.10	5.30	5.03	15.60	11.65	
54	7	0.15	1.91	1.78	4.85	2.61	0.00	1.23	2.15	2.34	6.15	4.31	
55	5	0.74	4.85	4.40	12.96	8.93	0.00	1.78	4.06	4.04	9.73	8.93	
57	5	0.18	2.53	2.27	6.29	3.28	0.00	-0.50	1.98	1.84	5.53	3.28	
58	7	-1.73	3.68	3.82	10.14	7.01	0.00	0.27	1.95	1.82	5.17	3.14	
59	7	-1.77	3.73	3.88	12.01	7.85	0.00	-0.98	3.93	3.77	12.01	7.85	
60	7	0.75	2.58	2.50	7.98	4.04	0.00	-0.65	2.62	2.51	7.98	4.04	
61	6	-0.87	3.23	3.08	8.86	5.32	0.00	-1.66	2.52	2.83	6.80	5.32	
62	7	-1.45	2.67	2.87	6.60	4.64	0.00	-0.72	2.34	2.28	6.60	4.64	
63	6	-0.53	3.67	3.39	10.41	6.81	3.82	0.20	0.50	0.49	1.30	0.98	
64	13	2.20	4.66	4.99	17.57	12.20	4.24	-0.02	3.16	3.04	11.23	5.91	
65	5	-2.07	6.66	6.30	16.39	13.70	0.00	-2.07	6.66	6.30	16.39	13.70	

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
66	7	3.98	5.90	6.76	13.77	12.22	0.00	3.98	5.90	6.76	13.77	12.22
67	4	-0.20	2.95	2.56	6.87	3.73	0.00	-0.20	2.95	2.56	6.87	3.73
68	5	1.17	5.32	4.90	12.54	9.92	0.00	1.52	5.15	4.85	12.54	9.92
69	10	-0.45	3.33	3.19	12.78	7.75	2.74	0.00	1.78	1.69	5.72	2.87
70	3	0.11	4.90	4.00	9.78	5.18	0.00	0.11	4.90	4.00	9.78	5.18
71	10	0.02	2.54	2.41	8.26	5.32	0.00	0.02	2.54	2.41	8.26	5.32
72	31	0.30	3.15	3.12	14.14	8.87	0.00	0.54	2.86	2.87	13.47	8.87
73	9	0.17	5.15	4.86	17.42	10.33	0.00	0.17	5.15	4.86	17.42	10.33
74	24	0.52	2.17	2.19	8.28	4.16	0.00	0.64	1.98	2.04	8.28	4.16
75	19	0.31	2.04	2.01	7.73	4.01	0.00	0.76	1.70	1.82	6.59	4.01
76	5	-4.76	6.12	7.25	15.17	15.35	0.00	-4.76	6.12	7.25	15.17	15.35
77	11	-0.04	3.38	3.22	12.29	9.42	0.00	-0.01	3.75	3.57	13.41	10.54
78	9	-0.11	1.53	1.45	3.94	2.16	0.00	-0.07	1.51	1.42	3.94	2.16
79	7	0.81	2.05	2.06	6.49	4.94	0.00	0.81	2.05	2.06	6.49	4.94
80	10	-1.22	4.02	4.01	15.30	10.99	0.00	-1.22	4.02	4.01	15.30	10.99
81	4	-0.95	4.95	4.39	11.10	6.50	0.00	-0.95	4.95	4.39	11.10	6.50
82	3	-1.39	1.55	1.88	3.05	3.08	0.00	-2.49	3.07	3.53	5.90	5.93
83	4	2.61	4.14	4.43	8.75	5.99	0.00	1.10	3.22	3.00	7.83	5.07
84	4	2.13	7.76	7.05	15.45	10.98	0.00	0.47	5.62	4.89	10.19	5.73
85	5	2.45	1.64	2.86	4.17	4.99	0.00	1.46	1.74	2.13	4.80	3.96

Before adj								After adj					
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max	
86	4	0.27	5.96	5.17	14.59	7.30	0.00	0.18	5.48	4.75	13.25	7.30	
1001	4	0.00	5.10	4.42	12.19	6.88	0.00	1.39	3.75	3.53	8.47	6.88	
1002	24	0.77	11.73	11.51	54.68	31.74	8.41	-0.02	7.45	7.29	36.02	19.48	
1003	14	-0.51	4.19	4.07	15.67	8.86	3.14	0.04	0.97	0.93	3.84	2.03	
1004	32	-0.49	7.46	7.36	34.39	17.77	6.43	0.00	3.73	3.67	19.26	10.54	
1005	7	0.00	5.37	4.97	14.09	8.44	0.00	0.00	5.37	4.97	14.09	8.44	
1006	3	0.00	24.99	20.41	43.83	28.85	0.00	0.00	24.99	20.41	43.83	28.85	
1007	3	0.00	18.53	15.13	35.94	20.59	0.00	0.00	18.53	15.13	35.94	20.59	
1008	3	0.00	6.58	5.37	12.87	7.22	0.00	0.00	6.58	5.37	12.87	7.22	
1009	6	0.00	14.35	13.10	32.79	19.53	0.00	0.00	14.35	13.10	32.79	19.53	
1010	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1011	6	0.00	6.98	6.37	18.25	11.30	0.00	1.29	7.08	6.59	18.25	11.30	
1012	6	0.00	10.52	9.61	28.69	15.74	0.00	2.03	7.67	7.29	18.63	12.95	
1013	8	0.00	6.69	6.26	21.03	14.17	0.00	0.24	6.69	6.26	21.03	14.17	
1014	6	0.00	16.01	14.62	43.58	29.98	0.00	-2.49	16.67	15.42	43.58	29.98	
1015	6	0.00	19.28	17.60	52.76	31.74	0.00	-1.64	14.58	13.41	37.56	21.02	
1016	7	0.00	13.99	12.95	33.69	17.04	0.00	0.00	13.99	12.95	33.69	17.04	
1017	5	0.00	6.74	6.03	16.13	9.54	0.00	-1.90	5.67	5.42	13.83	9.54	
1018	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1019	14	0.00	16.93	16.31	58.83	29.98	0.00	0.00	16.93	16.31	58.83	29.98	

		Before adj						After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
1020	5	0.00	5.09	4.56	13.20	8.39	0.00	-1.69	2.19	2.59	4.84	4.81

1021	4	0.00	17.89	15.49	38.18	22.94	0.00	0.12	9.08	7.86	19.89	13.11
1022	5	0.00	12.79	11.44	29.84	16.17	5.29	-0.05	3.56	3.19	9.30	5.10
1023	5	0.00	7.74	6.92	19.52	10.80	0.00	1.66	5.29	5.02	12.44	8.72
1024	5	0.00	8.20	7.33	21.36	12.17	0.00	2.84	5.49	5.67	13.36	12.17
1025	8	-1.16	6.64	6.32	21.32	10.99	0.00	-1.23	6.81	6.48	21.32	10.99
1026	5	-4.90	15.96	15.09	39.26	31.72	0.00	-3.78	15.84	14.66	39.26	31.72
1027	11	-1.35	5.74	5.64	21.99	13.06	0.00	-1.16	5.87	5.72	21.99	13.06
1028	8	-1.07	0.93	1.38	2.75	2.55	0.00	-0.87	0.93	1.23	2.73	2.55
1029	6	-0.04	1.79	1.64	5.53	2.98	0.00	0.06	1.79	1.63	5.53	2.98
1030	3	1.39	2.72	2.62	5.16	4.46	0.00	1.23	2.81	2.61	5.16	4.46
1031	4	-0.70	3.96	3.50	9.27	4.73	0.00	0.55	3.02	2.67	7.08	4.73
1032	2	0.00	4.28	3.03	6.06	3.03	0.00	1.76	1.79	2.17	2.54	3.03
1033	5	1.28	1.29	1.73	3.50	2.75	0.00	1.17	1.34	1.67	3.50	2.75
1034	11	0.28	2.20	2.12	7.15	4.54	2.30	-0.06	0.42	0.40	1.36	0.81
1035	29	-0.34	4.61	4.55	20.06	12.20	0.00	0.01	4.04	3.97	17.78	9.92
1036	22	0.19	7.93	7.75	29.61	15.35	0.00	0.27	7.94	7.76	29.61	15.35
1037	2	0.00	19.62	13.87	27.74	13.87	0.00	0.00	19.62	13.87	27.74	13.87
1038	5	0.00	10.95	9.80	28.24	14.98	0.00	0.00	10.95	9.80	28.24	14.98
1039	16	0.00	9.03	8.74	34.45	21.02	0.00	0.41	8.61	8.34	34.45	21.02

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
1040	4	0.00	15.19	13.16	33.45	16.82	0.00	2.35	11.25	10.02	23.61	15.36
1041	5	0.00	11.25	10.07	30.23	18.10	0.00	-2.04	13.43	12.18	37.58	19.48
1042	5	0.00	17.54	15.69	39.43	21.66	0.00	-5.27	11.89	11.87	25.89	21.66
1043	3	0.00	4.02	3.28	7.88	4.39	0.00	0.00	4.02	3.28	7.88	4.39
1044	4	0.00	3.25	2.81	7.13	4.42	0.00	0.30	3.55	3.09	7.76	4.42
1045	7	0.00	8.96	8.30	24.56	13.43	0.00	1.34	7.92	7.46	24.56	13.43
1046	2	0.00	0.85	0.60	1.20	0.60	0.00	-0.15	0.64	0.47	0.90	0.60
1047	2	0.00	2.28	1.61	3.22	1.61	0.00	0.81	1.14	1.14	1.61	1.61

The following intersection pairs were designated to be NOT used:

( 9 20)

# **BATHYMETRY ADJUSTMENTS**

FUGRO-LCT INC.

SEISMIC AUSTRALIA  
OTWAY/SORELL BASIN  
OFFSHORE AUSTRALIA  
February 2002

# Systematic Adjustment Report

Database name : db10.merge/

Number of lines : 133

Channel name : B-WATR = Bathymetry

Date : Feb 26 08:27:20 2002

Number of intersections in database : 521

Minimum number of intersections per line : 1

Intersection gradient penalty factor : 1.000

Line mistie standard deviation penalty factor : 1.000

Line mistie mean penalty factor : 1.000

Line mistie rms penalty factor : 1.000

Polynomial order for adjustment : 0

Processing sub-network: 1

Number of lines adjusted: 133

Lines in sub-network:

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81
82	83	84	85	86	1001	1002	1003	1004
1005	1006	1007	1008	1009	1010	1011	1012	1013
1014	1015	1016	1017	1018	1019	1020	1021	1022
1023	1024	1025	1026	1027	1028	1029	1030	1031
1032	1033	1034	1035	1036	1037	1038	1039	1040
1041	1042	1043	1044	1045	1046	1047		

Number of intersections used: 517

Damping factor: 0.

network rms adjustment: 7.696

Before-adjustment survey mistie statistics:

Absolute mean: 5.712  
Standard deviation: 13.22  
Rms: 13.23  
Range: 215.4  
Absolute maximum: 133.2

After-adjustment survey mistie statistics:

Absolute mean: 6.244  
Standard deviation: 11.68  
Rms: 11.67  
Range: 174.6  
Absolute maximum: 102.9

Line detail report:

Before adj					After adj							
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max

1	5	-3.87	10.72	10.34	24.47	23.03	3.49	0.00	10.10	9.03	27.08	17.01
2	5	0.41	4.93	4.43	13.57	7.56	0.79	0.00	4.39	3.93	10.40	7.76
3	4	-0.92	1.76	1.78	3.82	3.22	1.84	0.00	4.04	3.50	9.69	5.18
4	6	0.38	9.72	8.88	30.69	15.77	0.12	0.00	7.61	6.94	21.89	12.98
5	6	-1.58	3.81	3.82	10.13	9.24	2.66	0.00	5.83	5.32	17.04	9.49
6	13	0.59	0.71	0.90	2.17	1.67	1.51	0.00	2.07	1.99	8.32	5.03
7	12	0.85	0.58	1.02	2.49	2.35	1.44	0.00	1.96	1.87	8.50	4.77
8	9	0.83	0.22	0.85	0.74	1.18	0.58	0.00	1.43	1.35	4.61	2.95
9	7	-0.81	0.30	0.86	0.95	1.38	1.26	0.00	1.72	1.59	4.35	2.63
10	7	0.62	0.27	0.67	0.87	1.10	0.23	0.00	1.44	1.33	3.88	2.36
11	5	-0.78	0.45	0.88	1.13	1.24	0.01	0.00	0.32	0.28	0.76	0.41
12	14	-0.57	1.05	1.16	3.31	2.28	0.73	0.00	3.18	3.07	11.56	6.79
13	14	0.81	0.80	1.11	3.12	3.03	1.75	0.00	3.20	3.08	12.16	6.79
14	16	-1.02	1.02	1.42	3.69	3.51	7.28	0.00	2.98	2.88	11.90	6.20
15	12	-2.35	7.59	7.64	30.23	17.02	5.06	0.00	9.14	8.75	33.07	25.58
16	7	1.01	11.69	10.87	39.39	24.46	0.25	0.00	8.40	7.78	28.39	16.71
17	3	-3.76	7.09	6.90	12.84	11.92	8.14	0.00	2.53	2.07	4.67	2.90
18	10	-3.07	25.66	24.53	104.87	66.77	4.91	0.00	23.18	21.99	93.88	58.35
19	13	5.42	16.58	16.82	60.20	58.78	6.36	0.00	16.61	15.96	60.49	52.66
20	11	-1.85	4.71	4.85	17.58	15.20	2.09	0.00	5.04	4.80	17.94	14.32

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
21	9	-0.15	0.72	0.70	2.06	1.27	0.51	0.00	1.00	0.94	2.84	1.49
22	11	0.26	3.71	3.55	14.74	10.90	1.05	0.00	2.95	2.82	10.35	8.63
23	15	-0.76	5.55	5.42	20.01	11.71	6.69	0.00	5.78	5.58	22.85	16.58
24	16	-0.48	3.78	3.69	15.76	10.36	6.74	0.00	2.87	2.78	10.14	5.92
25	15	-0.81	7.57	7.36	29.60	21.49	7.39	0.00	7.16	6.91	24.80	17.89
26	4	-1.32	4.42	4.05	9.17	7.93	8.35	0.00	4.18	3.62	8.48	6.27
27	4	-3.49	3.57	4.67	8.64	8.30	10.52	0.00	3.34	2.89	8.05	4.48
28	4	1.10	1.17	1.49	2.50	1.91	5.93	0.00	1.49	1.29	3.19	2.04
29	4	-1.34	4.20	3.88	8.62	7.63	8.37	0.00	4.44	3.85	9.27	6.65
30	4	5.92	10.39	10.77	21.02	21.49	1.11	0.00	10.15	8.79	20.92	15.21
31	4	-0.93	1.97	1.94	4.25	3.54	7.95	0.00	2.13	1.85	4.67	2.98
32	4	3.40	3.75	4.71	8.24	8.86	3.62	0.00	4.05	3.50	8.94	5.79
33	4	-1.01	1.74	1.82	4.01	3.12	8.03	0.00	1.79	1.55	4.07	2.23
34	4	1.84	1.53	2.27	3.60	3.89	5.19	0.00	1.75	1.52	4.24	2.34
35	4	-2.95	5.02	5.25	11.61	8.10	9.97	0.00	5.03	4.35	11.72	6.20
36	4	-0.78	1.63	1.61	3.72	3.04	7.81	0.00	1.79	1.55	3.83	2.62
37	7	-1.67	9.39	8.86	31.51	20.51	4.59	0.00	8.31	7.70	27.15	14.73
38	1	-1.34	0.00	0.00	0.00	1.34	0.45	0.00	0.00	0.00	0.00	0.00
39	2	-2.94	0.88	3.01	1.25	3.57	3.10	0.00	0.60	0.42	0.85	0.42
40	3	-1.05	1.51	1.62	2.63	2.80	0.58	0.00	3.01	2.45	5.59	3.43

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
41	3	-0.15	0.95	0.79	1.69	0.95	0.11	0.00	0.53	0.43	1.02	0.60
42	6	-0.30	0.68	0.69	1.81	0.98	0.11	0.00	0.39	0.36	0.98	0.54
43	4	-0.22	0.78	0.71	1.65	0.83	0.35	0.00	0.88	0.76	1.90	1.11
44	11	-4.20	8.62	9.23	29.60	28.93	3.23	0.00	8.38	7.99	29.10	24.81
45	7	-0.09	0.99	0.92	2.86	2.07	0.65	0.00	0.49	0.46	1.55	0.94
46	3	-1.23	0.88	1.43	1.58	2.25	1.32	0.00	1.91	1.56	3.68	2.14
47	2	-0.45	0.56	0.60	0.79	0.84	0.04	0.00	0.01	0.01	0.02	0.01
48	19	0.34	0.46	0.57	1.62	1.10	0.08	0.00	3.72	3.63	15.26	8.56
49	6	-3.39	7.19	7.38	18.37	13.66	6.81	0.00	7.83	7.14	19.21	12.52
50	7	0.24	11.77	10.90	27.87	17.00	2.91	0.00	8.52	7.89	22.47	12.98
51	10	-3.89	20.64	19.96	74.73	61.07	5.67	0.00	17.00	16.13	59.29	46.77
52	5	-1.78	1.36	2.16	3.58	4.07	2.62	0.00	2.72	2.43	5.92	3.54
53	8	5.83	8.98	10.23	24.67	23.27	5.89	0.00	10.44	9.77	31.07	21.00
54	7	-1.08	11.35	10.57	38.79	19.52	2.50	0.00	11.61	10.75	34.51	20.99
55	5	-0.68	3.36	3.08	8.07	6.64	1.07	0.00	6.10	5.46	14.14	7.44
56	7	-0.05	10.53	9.75	35.61	20.76	0.32	0.00	10.53	9.75	35.26	20.50
57	6	-1.21	3.79	3.66	9.63	6.67	0.92	0.00	4.69	4.28	12.54	7.37
58	7	0.61	13.36	12.38	41.69	23.69	0.99	0.00	14.57	13.49	45.65	26.20
59	7	-2.83	7.16	7.20	21.93	16.43	2.45	0.00	7.18	6.65	23.02	14.85
60	7	6.21	8.49	10.02	24.06	24.26	6.00	0.00	8.15	7.55	23.50	17.39

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
61	6	3.30	4.39	5.20	11.71	11.67	3.98	0.00	5.89	5.38	16.08	11.19
62	7	3.47	10.37	10.21	33.37	25.43	4.35	0.00	11.54	10.68	36.64	24.58
63	7	-7.56	17.96	18.27	51.32	47.71	7.38	0.00	16.64	15.41	48.05	36.83
64	13	1.38	2.87	3.09	11.12	6.64	2.32	0.00	3.51	3.37	13.23	7.02
65	5	-0.45	1.07	1.05	2.44	1.35	0.54	0.00	0.98	0.88	2.61	1.33
66	7	-0.40	0.86	0.89	2.55	1.91	0.94	0.00	0.79	0.73	2.24	1.16
67	4	-0.77	0.63	0.94	1.39	1.25	0.09	0.00	0.88	0.76	2.05	1.11
68	5	18.62	27.29	30.70	64.29	65.54	19.80	0.00	27.38	24.49	64.64	46.32
69	11	-5.58	11.08	11.95	35.84	31.07	5.07	0.00	9.63	9.18	29.78	22.26
70	3	0.81	0.82	1.05	1.64	1.66	4.44	0.00	4.31	3.52	7.86	4.96
71	11	1.70	6.31	6.25	22.53	18.01	0.46	0.00	9.52	9.08	38.60	19.46
72	35	-0.04	3.99	3.94	26.09	15.20	1.21	0.00	5.39	5.31	29.85	15.53
73	10	-0.96	1.71	1.88	5.84	5.70	2.70	0.00	2.40	2.28	7.92	4.19
74	27	1.36	6.30	6.33	36.13	28.93	0.89	0.00	5.89	5.78	31.91	24.81
75	20	-0.98	7.66	7.53	40.69	24.26	0.87	0.00	9.71	9.46	36.19	18.22
76	5	-2.01	2.24	2.84	4.56	4.58	4.49	0.00	4.05	3.62	9.41	5.50

77	11	-3.56	7.11	7.66	21.60	20.42	3.54	0.00	6.14	5.85	18.55	13.38
78	10	0.28	6.82	6.48	23.50	19.27	0.78	0.00	7.97	7.56	30.97	20.99
79	7	8.49	23.23	23.12	64.27	61.07	8.63	0.00	20.78	19.24	59.82	46.77
80	10	1.21	1.77	2.07	5.35	3.47	1.78	0.00	3.84	3.64	12.93	8.90

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
81	4	-0.80	3.24	2.91	6.79	5.56	0.35	0.00	4.58	3.97	10.15	6.77
82	3	1.33	2.00	2.11	3.94	3.51	3.25	0.00	0.52	0.43	1.04	0.55
83	4	2.83	8.03	7.51	18.39	14.23	4.90	0.00	8.87	7.68	20.71	11.86
84	4	-2.63	2.32	3.31	5.01	4.18	0.32	0.00	1.16	1.00	2.74	1.37
85	7	1.89	14.38	13.45	44.08	23.27	3.62	0.00	13.03	12.06	41.69	21.00
86	4	-0.16	4.58	3.97	9.59	6.65	2.15	0.00	5.69	4.93	12.86	8.00
1001	4	7.04	1.94	7.24	4.63	8.99	11.47	0.00	2.20	1.90	4.92	3.09
1002	26	0.77	8.90	8.76	49.64	31.07	3.74	0.00	11.46	11.24	61.13	38.87
1003	15	0.24	18.94	18.30	86.30	65.54	0.58	0.00	14.73	14.23	66.82	46.32
1004	33	-2.88	14.28	14.36	95.76	58.78	0.23	0.00	13.01	12.81	81.30	52.66
1005	7	8.76	34.78	33.37	108.50	82.17	7.65	0.00	33.86	31.35	97.85	71.63
1006	3	9.74	5.86	10.85	10.99	16.40	10.18	0.00	5.11	4.17	9.99	5.63
1007	3	-7.41	8.87	10.37	16.84	14.22	5.50	0.00	6.79	5.54	13.44	7.27
1008	3	-3.70	1.06	3.80	1.89	4.36	4.03	0.00	2.82	2.30	5.53	3.09
1009	6	2.40	7.16	6.96	21.07	13.65	5.88	0.00	8.63	7.88	23.77	11.95
1010	1	1.05	0.00	0.00	0.00	1.05	2.95	0.00	0.00	0.00	0.00	0.00
1011	6	-6.69	37.65	35.02	102.54	82.17	2.89	0.00	37.26	34.02	108.60	71.63
1012	6	-9.28	34.36	32.71	86.28	79.30	5.49	0.00	29.91	27.31	80.11	60.10
1013	8	-18.10	48.87	49.17	151.78	133.21	16.56	0.00	44.48	41.60	141.81	102.94
1014	6	1.66	5.43	5.22	15.55	8.23	4.22	0.00	9.24	8.43	26.72	16.81

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
1015	6	-1.64	6.05	5.76	16.26	10.26	0.92	0.00	5.75	5.25	17.23	10.95
1016	7	-1.59	2.83	3.06	8.07	6.00	4.00	0.00	7.32	6.78	22.83	11.95
1017	5	4.65	15.49	14.61	42.10	26.33	10.00	0.00	16.73	14.97	46.01	23.98
1018	1	-7.38	0.00	0.00	0.00	7.38	4.08	0.00	0.00	0.00	0.00	0.00
1019	14	-2.27	3.36	3.95	13.48	6.98	0.86	0.00	9.38	9.04	33.17	20.86
1020	5	-3.47	5.27	5.85	13.27	12.39	2.42	0.00	4.34	3.88	10.58	6.40
1021	4	11.83	15.09	17.63	31.91	31.07	16.88	0.00	17.50	15.15	32.92	16.73
1022	5	6.10	6.25	8.27	15.06	12.39	10.63	0.00	9.99	8.93	25.77	15.00
1023	5	-0.27	2.85	2.56	7.75	4.75	4.26	0.00	3.46	3.09	9.41	4.71
1024	5	2.97	3.04	4.03	8.06	7.95	7.50	0.00	3.77	3.37	9.75	6.09
1025	8	2.88	3.60	4.43	10.63	8.95	3.83	0.00	2.90	2.72	8.32	5.35
1026	6	-8.02	14.86	15.76	42.16	36.98	8.10	0.00	16.07	14.67	45.43	28.64
1027	11	2.44	3.89	4.44	13.22	10.36	3.14	0.00	4.40	4.19	16.14	10.72
1028	8	-16.75	35.23	36.97	104.23	102.00	17.38	0.00	33.40	31.25	100.27	81.12
1029	6	4.75	8.02	8.72	22.24	17.82	0.60	0.00	11.88	10.84	33.23	21.92
1030	3	8.72	5.32	9.75	10.56	14.39	5.16	0.00	11.29	9.22	21.55	12.73
1031	4	-7.04	26.45	23.96	56.87	43.16	11.56	0.00	21.79	18.87	45.98	28.10
1032	2	10.92	10.01	13.01	14.16	18.00	8.92	0.00	17.79	12.58	25.16	12.58
1033	5	7.58	7.20	9.95	16.45	17.16	0.66	0.00	4.50	4.02	11.27	7.48
1034	11	-5.92	13.90	14.51	48.54	38.11	7.50	0.00	15.04	14.34	48.10	35.52

Before adj								After adj				
Line	Int	Mean	Std dev	RMS	Range	Abs max	RMS adj	Mean	Std dev	RMS	Range	Abs max
1035	30	3.39	28.74	28.46	127.43	102.00	3.50	0.00	24.06	23.66	107.32	81.12
1036	22	0.22	13.51	13.20	65.95	34.88	2.54	0.00	9.64	9.42	35.21	18.20
1037	2	-8.23	11.56	11.60	16.35	16.40	1.87	0.00	6.16	4.36	8.71	4.36
1038	5	-1.61	9.32	8.49	24.30	13.65	4.05	0.00	7.75	6.93	21.38	11.82
1039	16	9.44	39.83	39.71	153.58	133.21	13.71	0.00	33.73	32.66	139.92	102.94
1040	4	6.74	4.96	7.99	10.74	11.52	13.14	0.00	7.23	6.26	15.39	10.61
1041	5	1.08	6.33	5.77	17.46	10.97	4.95	0.00	8.64	7.73	20.86	12.31
1042	5	7.60	9.83	11.62	25.50	24.18	11.47	0.00	9.31	8.32	21.99	12.94
1043	3	-2.79	5.21	5.08	9.23	8.79	7.74	0.00	8.17	6.67	16.13	8.81
1044	4	-4.87	7.60	8.19	16.50	15.74	2.74	0.00	11.33	9.81	25.08	13.07
1045	7	2.94	6.55	6.74	17.36	12.29	7.93	0.00	9.56	8.85	26.61	16.16
1046	2	13.45	7.37	14.43	10.42	18.66	11.45	0.00	15.15	10.71	21.42	10.71
1047	2	-2.32	3.24	3.26	4.58	4.61	4.32	0.00	4.54	3.21	6.41	3.21

## **APPENDIX 7**

### **CD FORMAT**



## DATA DESCRIPTION

Fugro-LCT, INC.  
Job #7503

Seismic Australia

Otway/Sorell Basin  
Offshore Australia

=====  
PROPRIETARY DATA  
NOT TO BE TRADED OR SOLD WITHOUT PERMISSION  
Proprietary data belonging to: FUGRO-LCT, INC.  
=====

Marine gravity and magnetic survey

Date of CD creation: March 4, 2002

Description of files on the CD:

This CD contains three files as follows.

File1 - 7503\_Linedata.asc = Line Data (ASCII code)  
(logical record length = 216)

File2 - 7503\_grids.asc = Grid Data (ASCII code)  
(logical record length = 136)

File3 - CD\_7503.fmt = File Description  
(Description of all files contained on TAR tape)  
(logical record length = 80)

File4 - 7503\_Fnl-Rpt.pdf = Final Data Processing report in Acrobat PDF format.

=====

Projection parameters for X and Y coordinates are:

Projection	=	Universal Transverse Mercator
Spheroid	=	Australian National
Central Meridian	=	141 E longitude
Base Latitude	=	0.0 N latitude
False Northing	=	10000000.0 meters
False Easting	=	500000.0 meters
Scale Factor	=	0.9996
(along the central meridian)		

=====

7503\_Linedata.asc - Line data (file number 1):

All data values for each observation are contained within a single record.  
The record field structure for the line data is as follows:

	COLUMNS	NO DATA VALUE
Field 1 = LCT Line number	4-8	
Field 2 = Line Name	10-21	
Field 3 = Julian date	23-25	
Field 4 = Year	27-30	
Field 5 = Hour	32-33	

Field 6	= Minute	34-35	
Field 7	= Second	36-37	
Field 8	= Shotpoint	39-48	
Field 9	= Latitude (decimal degrees)	49-60	9999.999999
Field 10	= Longitude (decimal degrees)	61-72	9999.999999
Field 11	= X-coordinate (meters)	73-82	99999999.9
Field 12	= Y-coordinate (meters)	83-92	99999999.9
Field 13	= Water Depth (meters)	93-100	999999.0
Field 14	= Adjusted Water Depth (meters)	101-108	999999.0
Field 15	= Corrected Meter Gravity (mGals)	109-117	999999.00
Field 16	= Eotvos Correction (mGals)	118-126	999999.00
Field 17	= Free-Air Gravity (mGals)	127-135	999999.00
Field 18	= Filtered Free-Air Gravity (mGals)	136-144	999999.00
Field 19	= Adjusted Filtered Free-Air Gravity (mGals)	145-153	999999.00
Field 20	= Filtered 3-D Bouguer Gravity (mGals)	154-162	999999.00
Field 21	= Adjusted Filtered 3-D Bouguer Gravity (mGals)	163-171	999999.00
Field 22	= Raw Magnetism (nT)	172-180	999999.00
Field 23	= Magnetic Anomaly (Cable, IGRF Corr.) (nT)	181-189	999999.00
Field 24	= Base Station Magnetism (nT)	190-198	999999.00
Field 25	= Filtered Corrected Magnetic Anomaly (Diurnal, Cable, IGRF Corr.) (nT)	199-207	999999.00
Field 26	= Adjusted Filtered Magnetic Anomaly (Diurnal, Cable, IGRF Corr.) (nT)	208-216	999999.00

\* Field 19, 21 and 26 Some data were deleted based on poor intersection misties. These data were derived from unadjusted data containing these deletions.

The output format used to write these fields to ASCII records was:

```
(3x,i5,1x,a12,1x,i3,1x,i4,1x,3i2,1x,f10.2,2f12.6,2f10.1,2f8.1,12f9.2)
```

The record length is 216 bytes / record. Records are fixed length.

=====

7503\_grids.asc - Grid Data (file number 2):

The second file contains the gridded data used to generate the water depth, Free-Air gravity, 3-D Bouguer gravity and magnetic anomaly contour maps. The second file describes a rectangular grid with an x-origin equal to 525000.0 meters and a y-origin equal to 5724000.0 meters. The grid spacing is equal to 1500.0 meters. Each record in the file describes a single row-column grid intersection value for water depth, adjusted Free-Air gravity, adjusted 3-D Bouguer gravity and adjusted magnetic anomaly. Null data values are represented by values equal to 1.0e20. The data fields are placed in each record as follows:

Field 1	= X-coordinate ( meters )
Field 2	= Y-coordinate ( meters )
Field 3	= Latitude ( decimal degrees )
Field 4	= Longitude ( decimal degrees )
Field 5	= Water depth ( meters )
Field 6	= Adjusted Free-Air gravity ( milligals )
Field 7	= Adjusted 3-D Bouguer gravity ( milligals )
Field 8	= Magnetic Anomaly (Diurnal Corrected)( nanoteslas )

The output format used to write these fields to was:

(4e18.10,4e16.8)

The record length is 136 bytes / record. Records are fixed length.

## **APPENDIX 8**

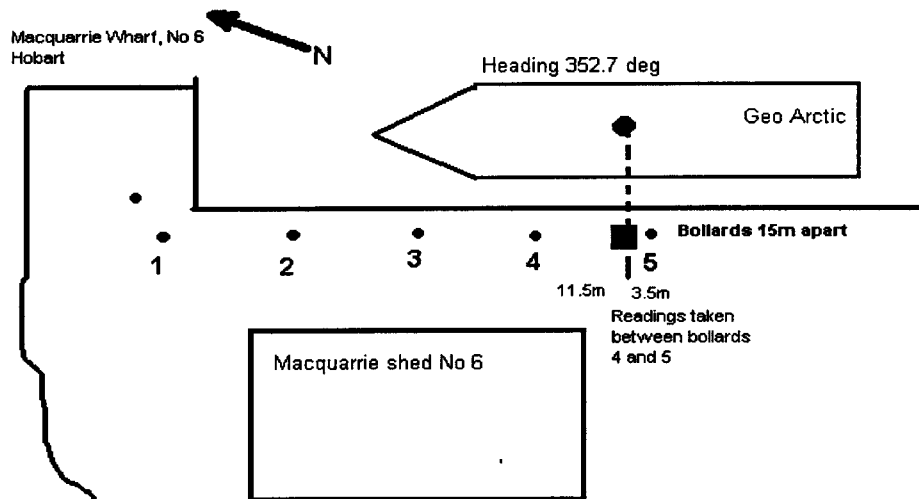
### **GRAVITY BASE STATION DESCRIPTION**

## FUGRO-LCT Gravity Base

Client	Commonwealth of Australia				Job #	454-01		Prospect	Offshore Antarctica		Vessel	Geo Arctic	
Date Run:								Meter s/n	LRG912				
8 Jan 02								JD 008		Counter	Value	Interval Factor	
Meter Operator								Calibration	Min	3700	3795.23	1.02675	
H Baker-Jones									Max	3700	3795.23	1.02675	
Existing Gravity Base Information								New Base Information					
City Hobart, Tasmania								City Hobart, Tasmania					
Country Australia								Country Australia					
Name and Identification Number								Dock Name / Identification					
AGSO 6491.0260								Macquarrie Wharf #6					
Elizabeth Street Pier								Hobart Harbour					
Hobart Harbour													
Station Location		D	M	S	Hem		Station Location		D	M	S	Hem	
Latitude (D°M'S")		42°	53.1'		S		Latitude (D°M'S")		42°	52.1'	45.1"	S	
Longitude (D°M'S")		147°	20.1'		E		Longitude (D°M'S")		147°	20.1'	23.1"	E	
Elevation		2.4 m						Elevation		2.3 m			
Datum		Gravity Value		Est Accuracy		Datum		Adopted Gravity Value		Est Accuracy			
IGSN1971		980437.25		±		IGSN1971		980437.08		± 0.01			
Potsdam 1930				±		Potsdam 1930				±			

### Description or Sketch

Land Tie is located between bollards 4 and 5 on Macquarrie Wharf #6, 3.5 m from the blrd. 5.  
Bollards are 15 m apart



Raw Data				Data Reduction					
Location (Dock or Base)	Time (local)	Counter Reading	Value (mGal)	Earth Tide Correction (mGal)	Tide corrected Reading	Drift	D g	Loop Data Used in Average (1 = Yes, 0 = No)	
1 Base	15:26	3734.02	3830.16	-0.04	3830.12				
2 Dock	15:39	3733.86	3830.00	-0.04	3829.96	0.01	-0.18	Loop1	1
3 Base	15:49	3734.04	3830.18	-0.03	3830.15	0.01	-0.17	Loop2	1
4 Dock	15:58	3733.88	3830.02	-0.03	3829.99	0.01	-0.17	Loop3	1
5 Base	16:07	3734.06	3830.20	-0.03	3830.17	0.02	-0.17	Loop4	1
6 Dock	16:17	3733.91	3830.05	-0.02	3830.02	0.00	-0.15	Loop5	1
7 Base	16:27	3734.06	3830.20	-0.02	3830.18	0.00	-0.15	Loop6	1
8 Dock	16:36	3733.91	3830.05	-0.01	3830.03	0.00	0.00	Loop7	0
9			0.00	0.00	0.00				
Average							-0.17		
Standard Deviation							0.01		