
Appendix C

Great South Land Minerals 2007 Zeehan Zinc 2D Operations Report

Terrex Seismic



GREAT SOUTH LAND MINERALS 2007 ZEEHAN ZINC 2D SEISMIC SURVEY



OPERATIONS REPORT

MARCH - MAY 2007

BY

D.T. REA

OF

**TERREX SEISMIC
U2 / 37 HOWSON WAY
BIBRA LAKE
WESTERN AUSTRALIA 6163**

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1.0 INTRODUCTION

Terrex Seismic was contracted by Great South Land Minerals to conduct the Zeehan Zinc 2D Seismic Survey in Tasmania. The crew mobilised on the 9th of March to Launceston via aircraft then traveled to Devonport to pick up vehicles and equipment and continued on to Zeehan to start the program. Testing and acquisition commenced on the 20th of March 2007 and the program was completed on the 7th of May 2007.

1.1 GEOGRAPHICAL AREA

The Zeehan Zinc 2D grid is situated approx. 150 kms south/south west of Burnie. For the majority of the Zeehan portion of the prospect, the seismic lines were recorded on existing roads – with the exception of line TB02b-ZB which followed the Mariposa tram line.

Total Area:

Zeehan: 064.450 kms



Line conditions on the Mariposa tram line

1.2 WEATHER

The weather conditions during the acquisition period were predominantly fine although 9.8 hours of standby time was recorded due to wet weather.

1.3 LOGISTICS

All recording equipment and vehicles were mobilised from Alice Springs in the Northern Territory by Terrex personnel.

Access to the lines was via local roads, recording lines and farm tracks.

Traffic management for the Zeehan prospect was provided by Terrex personnel and vehicles.

Accommodation and meals for Terrex personnel and traffic controllers was provided by the Heemskirk Hotel Motel, the Cecil Hotel and the Zeehan Caravan Park.

All meals were provided by the Heemskirk and the Cecil hotels.

Fuel for all vehicles was supplied by the B.P. Service Station in Zeehan.

Zeehan Zinc provided use of its yard in Zeehan to setup the workshop and store equipment.

All other logistics were supported out of Terrex Seismic Perth Office.



Mariposa track – Swamp section

2.0 SURVEYING

2.1 RANGING / CHAINING / SURVEYING

Line chaining and survey for the entire program were completed by Dynamic Satellite Surveys personnel from Yeppoon in Queensland.

2.2 LINE CLEARING

The majority of lines were on existing roads & tracks with the exception of TB02b-ZB which was prepared by Zeehan Zinc contractors along the Mariposa tram line.

2.3 PERMITTING

Permitting was carried out by Great South Land Minerals Limited.

3.0 RECORDING / PROCESSING

3.1 RECORDING PARAMETERS

Vibroseis Source

Acquisition Type:	Sercel 388 - 24 Bit Telemetry System
Energy Source:	3 x Input-Output 42,000lb Peak Force 6x6 Truck mounted Vibrators Online
Vibrator Point Interval:	20 metres
Vibrator Array:	15 m Pad-Pad / No Moveups
Vibrator Array Location:	Centred on Station Pegs (Centred at SP 100)
Receivers:	12 x 10 Hz SM24 Geophones / Group
Receiver Interval:	20 metres
Receiver Array:	20 metres (12 phones with 1.67m phone spacing)
Receiver Array Location:	Centred between Stations (Centered at SP 100.5)
Sweep Length:	12 sec Sweeps or 8 sec Sweeps (see GSLM)
Number of Sweeps:	2 x 12 second sweeps / VP Or 2 x 8 second sweeps / VP (see GSLM)
Sweep Type:	Monosweep
Sweep Frequencies:	6-140 HZ
Sweep Taper:	200 msec Taper
Sweep Energy per Km:	1200 sec/km or 800 sec/km (see GSLM)
Sweep Control:	Pelton Advance 2 Model 5
Accelerometers:	Pelton M5 High Performance
Similarity System:	Pelton VIBRA-SIG
Peak Force:	44,000 lbs
Hold Down Weight:	44,200 lbs
Vibrator Drive Level:	Force Control On - 80% Peak Force
Phase Lock:	Ground Force Phase Lock
No. of Channels:	300 Channels
Spread Geometry:	Symmetric Split Spread
Maximum Offset:	2990 - 10 – 0 – 10 – 2990 metres
Fold:	150 Fold with 10m CDP interval
Record Length:	6.0 seconds
Correlation Sample Rate:	2 milliseconds
Written to Tape S.R.:	2 milliseconds
Output Data Format:	SEG D

3.2 RECORDING

Traffic management formed a large part of daily operations on the Zeehan prospect with most lines being surveyed along the road verge. A total of 13 personnel in 7 vehicles were used to control the traffic around the work site, which also dictated the operational hours of the acquisition crew with no personnel to be working on the roads outside daylight hours.

Security was also an issue on the Zeehan prospect with two line batteries stolen on the 22nd March despite having a full time security guard on site.

Line TB02B-ZF

Acquisition commenced on line TB02B-ZF at station 1000.5 on the 20th March 2007 after the crew mobilised from Launceston the previous day and spread layout was completed. Production was completed on line ZF the following day at station 1572.5, a total of 11.44 kilometres recorded including 55 skipped VP's due to proximity of dwellings, road culverts etc.

Line TB02B-ZC

Acquisition commenced on line TB02B-ZC at station 1000.5 on the 22nd March 2007 and was completed the following day at station 2002.5, a total of 20.04 kilometres including 122 skipped VP's for the town of Zeehan.

Line TB02B-ZD

Acquisition commenced on line TB02B-ZD at station 900.5 on the 24th March 2007 and was completed two days later at station 1400.5, a total of 10.0 kilometres including 21 skipped VP's due to proximity of dwellings, road culverts etc.

Line TB02B-ZA

Acquisition commenced on line TB02B-ZA at station 1000.5 on the 25th March 2007 and was completed two days later at station 1864.5, a total of 17.28 kilometres including 8 skipped VP's due to proximity of dwellings, road culverts etc.

At the completion of line ZA the crew mobilized to the GSLM Miena Highlands 2D prospect, this was due to delays in line preparation on line TB02B-ZB which was scheduled for completion at a later date.

Line TB02B-ZB

Acquisition commenced on line TB02B-ZB at station 1600.5 on the 5th May 2007 after the crew had mobilized from Bronte Park that same day. Production was completed on line ZB on the 7th May 2007 at station 1160.5, a total of 5.69 kilometres including 14 skipped VP's due to difficult terrain, a total of 64.45 kilometres recorded for the Zeehan Zinc 2D. Zeehan Zinc personnel assisted the line crew in moving the acquisition equipment which aided to hasten the completion of the contract. All line equipment was retrieved and packed onto transports by late afternoon on the 7th May. All vehicles and equipment were washed down and prepared for demobilisation on the ferry to the mainland the on the 8th May, with the crew demobing on the 9th May 2007; this represented the completion of the 2007 GSLM Seismic Programme.



Conditions through the 2.5 km hand carry section of the Mariposa track

3.3 PROCESSING

All data 'A' class recording tapes were sent to Fugro Seismic Imaging, 69 Outram Street, West Perth for processing.

All 'B' class recording tapes were given to on-site client representatives to be returned to Hobart.

APPENDIX A

EQUIPMENT SPECIFICATIONS

RECORDING EQUIPMENT

SERCEL 388 - 24 Bit 3D Seismic Data Acquisition System

Sun Monitor and Sun Sparc 5 Computer

- ❖ OYO DFM 480 Plotter, UPS, LIM
- ❖ One (1) Sercel Real Time APM - Sweep Correlator
- ❖ Two (2) Fujitsu 3490 Tape Drives

- One Hundred (100) SU6 Telemetry units (600 Channels)
- Two Hundred (200) 3 T/O Seismic Cables (600 Channels)
- Sixteen (16) Sercel PSUs and Four (4) Sercel CSUs
- Six (6) CSU Patch Cables
- Twenty (20) Battery case power Cords
- Forty (40) Batteries for SU6 Units
- One (1) Sercel Handheld Cable Testers
- Four (4) Sercel Battery Chargers

Pelton Vibra Sig Real Time Similarity System

One (1) 10 metre 6 DB Boost High Gain Antenna on Recording Truck

Sensor SM24 10Hz High Specification Geophones

One Thousand (1000) Geophone strings with 6 ph/group
(500 Channels with 12 phones/group)

One (1) Sensor SMT100 Geophone Tester

Note: Terrex Seismic warrants that 90% of equipment will be used in field and up to 10% may be undergoing repair and maintenance.

SOURCE EQUIPMENT

- ❖ **Four (4) HEMI 44 6x6 Truck mounted Vibrators**
Peak force is 44,000lbs per Vibe and
Hold-Down weight is 44,200lbs per Vibe

- ❖ **Four (4) Pelton Advance 2 Model 5 Vibrator Control Electronics**
One (1) Pelton Encoder Sweep Generator for Recorder
Three (3) operating Online and One (1) on Standby
Electronics are capable of Trade Marked Varisweep

APPENDIX B

VEHICLE EQUIPMENT LIST

#	VEHICLE	USED FOR	REGISTRATION
1	Land Cruiser 100 Series	Front Crew	1BWF 930
2	Land Cruiser 100 Series	Back Crew	1BYK 183
3	Land Cruiser 100 Series	Vibe Crew	1CCL 562
4	Land Cruiser Tray Back	T/Shooter	302-JCO
5	Land Cruiser Troop Carrier	Ambulance	1FCZ 129
6	Land Cruiser Tray Back	Cable Truck	1CET 468
7	Land Cruiser Tray Back	Cable Truck	1BSJ 242
8	Land Cruiser Tray Back	Line Boss	1BRJ 753
9	Land Cruiser Tray Back	Jug Ute	1BHD 550
10	Land Cruiser Tray Back	Jug Ute	1BEK 496
11	Nissan Tray Back	Mechanics Ute	176 JNA
12	Nissan Tray Back	Supply	175 JNA
20	International Paystar	Vibrator	372 JCN (QLD)
21	International Paystar	Vibrator	373 JCN (QLD)
22	International Paystar	Vibrator	374 JCN (QLD)
23	International Paystar	Vibrator	375 JCN (QLD)
24	International Paystar	Vibrator	376 JCN (QLD)
25	Isuzu FTS 700	Service Truck	1ALU 225
26	Izusu	Mechanics Workshop	1CCC 561
27	Izusu STF	Recorder(388)	1CAA 534
28	International Paystar	Spread Truck	626-JAH
29	International Paystar	Spread Truck	371 JCN

APPENDIX C

TAPE LISTING

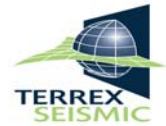
ZEEHAN ZINC - TAPE LISTING

Tape #	Line #	First FFID	Last FFID	First VP	Last VP	Date Recorded	Comments
1A	TB02B-ZF	7	218	1000.5	1217.5	20-Mar-07	See Obs Log
2A	TB02B-ZF	219	448	1218.5	1447.5	21-Mar-07	
3A	TB02B-ZF	449	525	1448.5	1570.5	21-Mar-07	Complete Line ZF
4A	TB02B-ZC	526	738	1000.5	1218.5	22-Mar-07	
5A	TB02B-ZC	739	961	1219.5	1543.5	22-Mar-07	
6A	TB02B-ZC	962	1147	1544.5	1735.5	23-Mar-07	
7A	TB02B-ZC	1148	1406	1736.5	2002.5	23-Mar-07	Complete Line ZC
8A	TB02B-ZD	1413	1469	900.5	1102.5	24-Mar-07	File numbering error, see Obs log
9A	TB02B-ZD	1470	1699	1103.5	1337.5	25-Mar-07	
10A	TB02B-ZD	1700	1762	1338.5	1400.5	25-Mar-07	Complete Line ZD
11A	TB02B-ZA	1763	1980	1000.5	1217.5	25-Mar-07	
12A	TB02B-ZA	1981	2210	1218.5	1451.5	26-Mar-07	
13A	TB02B-ZA	2211	2339	1452.5	1580.5	26-Mar-07	
14A	TB02B-ZA	2340	2563	1581.5	1808.5	27-Mar-07	
15A	TB02B-ZA	2564	2619	1809.5	1864.5	27-Mar-07	Complete Line ZA
80A	TB02B-ZB	6940	7162	1600.5	1453.5	4-May-07	Stn # 1518 Grouped, Skip # 1554.5-1553.5, Stn # 1381 Dead
							*** V.P. 1518.5 onwards shot as v.p. & 1/2 v.p. to increase fold to cover large skip
							Omit # 7093, Skip # 1472.0-1470.5, Omit # 7119-7133
81A	TB02B-ZB	7163	7356	1453.0	1200.0	6-May-07	Stn # 1256-1255 Dead, Skip # 1399.5-1399.0, Stn # 1236 & 1369 Dead
							Skip # 1390.5-1235.5 SWAMP / RIVER
82A	TB02B-ZB	7357	7436	1119.5	1160.0	7-May-07	TB02B-ZB Complete
							GSLM Contract completed

APPENDIX D

HSE POLICY and OH&S STANDARDS

- Site specific inductions / daily toolbox meetings / weekly safety meetings
 - o Monthly Section head meetings
 - Personal protective equipment
 - Traffic Management Safety
 - o VHF / UHF / HF communications
 - Vehicle emergency equipment
 - Random drug and alcohol tests



TERREX SEISMIC HEALTH, SAFETY AND ENVIRONMENT POLICY

Terrex Seismic is an Exploration Contractor involved in Seismic Acquisition to the Oil, Gas and Mineral Industries.

Our Commitments

- To provide a safe, healthy and injury free workplace for our employees, contractors and the general public.
- Assisting all of our employees and contractors to meet their HSE obligations.
- Establish and implement an HSE Management System and Operational Plans at all levels of the Company.
- Education and training of all of our Employees in HSE Systems, Procedures, Risk Assessment and Risk Minimization.
- Ongoing evaluation and modification of all of our HSE Management Systems, Procedures and Plans in order to ensure a consistent improvement in the establishment of a safe, healthy and environmentally sound workplace.
- Ensure all of our HSE Systems are in accordance with the relevant legislation and requirements of Clients and Government Bodies.

Our Goal

- To achieve a workplace where the targets of zero injuries, equipment damage and environmental incidents are attained.

Our Systems

- Management shall provide a visible, personal involvement in all aspects of HSE, and through their actions create a culture that facilitates employee HSE involvement. Management shall make available the appropriate resources to carry out all manner of HSE.
- Policies and objectives shall be initiated, defined, communicated and revised at all organizational levels.
- Organizational responsibilities shall be defined and the necessary resources provided to achieve HSE objectives
- Management shall continuously evaluate the HSE risks to the employees, clients and environment. Comprehensive risk assessment provides the necessary information in order to take action to reduce the risk to our operations.
- HSE shall be integrated in the design, development and delivery of all services. This includes planning for existing operations, managing change and developing emergency response measures.

Each employee has a personal responsibility to comply with this policy and contribute towards its implementation. Management holds the responsibility to communicate the requirements of this policy to all our employees, contractors and visitors and to involve them in its implementation.

Breach of this policy will be taken very seriously and may involve disciplinary action.

Stephen P. C. Tobin

APPENDIX E

END OF CONTRACT HSE SUMMARY



Health Safety & Environment

End of Contract Summary

Tasmania Basin 2D

19th Mar- 7th May 2007

Client	Great South Land Minerals Ltd	HSE Advisor	Ray Auckram
Location	Tasmanian West Coast Highland Lakes Region	Combined Personnel	43
Camp Site	Heemskirk Motel Cecil Motel Treasure Is.Caravan Park Silver Hills Motel Great Lake Hotel Tigers Accom. "Simmos" The Lodge Motel Bronte Park Highland Village	BAC Tests Conducted	105
Camp Location	Zeehan Queenstown Miena	Preliminary Drug Tests Conducted	1
Sub-Contractors	DSS	Standard Operating Procedure Revisions	

Summary:

19/03/2007: Crew mobilised to Zeehan and Queenstown.
 20/03/2007: Remainder of crew arrive in Zeehan.
 Lay out spread; commence trouble shooting and production(@30 shots completed).
 Induction for new hires.
 21/03/2007: Traffic Control Incident see Meet&Reports tab
 23/03/2007: Vibrator Hydraulic Hose Incident see Meet&Reports tab
 25/03/2007: Safety Meeting SOP Reversing Vehicles see Meet&Reports tab
 27/03/2007: Complete production TB02b-ZA
 Pack up spread.
 28/03/2007: Camp move. Breath Testing
 Lay out spread on TB02b-AA1, commence production.
 Mitchell Roll Eye Injury Incident see Meet&Reports tab
 30/03/2007: Andrew Pepper Fall Incident see Meet&Reports tab
 31/03/2007: Steve Zimmerman Gate Incident see Meet&Reports tab
 01/04/2007: Induction for new hires.
 02/04/2007: Induction for new hires.
 03/04/2007: Induction for new hires.
 04/04/2007: Induction for new hires.
 Liam Shutteworth Incident see Meet&Reports tab
 06/04/2007: Induction for new hires.
 11/04/2007: Standby for cattle mustering.
 16/04/2007: Ray Clayton Vehicle Tip Over Incident see Meet&Reports tab
 19/04/2007: Induction for new hire.
 20/04/2007: Induction for new hire.
 21/04/2007: Camp move to Bronte Park
 22/04/2007: Scott Fadian Rash Incident see Meet&Reports tab
 28/04/2007: Induction for new hire.
 29/04/2007: Induction for new hire.
 30/04/2007: Induction for new hires.
 01/05/2007: Darren Spinks Assault Incident see Meet&Reports tab
 04/05/2007: Camp move to Zeehan via overnight stay in Queenstown
 07/05/2007: EOC

Report compiled by:

Safety Statistics

Terrex Seismic Man-hours	20,580
Sub-Contractor Man-hours	1,212
Fatalities	0
LTI's	0
MTI's	0
Days since last MTI/LTI	67
First Aid Incidents	3
Incident / Accident Reports	8
Work Days Lost	7
Hazard Identification Reports	6
Training Hours	51
Tool Box / Safety Meeting Man-hours	359
Audits / Inspections	457
Drills	1
Land Spills (< 5 litres)	1

Medical Statistics

Clinic Attendance	
Referral	1
Eye infections, injuries	1
Fractures	
GIT: Diarrhoea, Nausea, Vomiting	1
Headaches	2
Back	1
Misc	1
Muscular Skeletal: Soft tissue injury, Sprain/Strain	3
Skin Conditions: Rash, Fungal Infection	4
Colds, Influenza type symptoms	6
Throat infection, Tonsillitis	
Wound Care: Lacerations, Dressings, Suture removal	2
TOTAL	22

APPENDIX F

PERSONNEL - CREW LIST

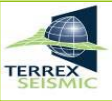
Positon	Name
Crew Manager	Darren Rea
Crew Manager	Jon Turner
HSE Advisor	Raymond Auckram
Observer	Peter Wakeham
Cable / Geophone Repair	Scott Fadian
Vibe Tech	Colin Sharman
Vibe Op (1)	Dean Kingston
Vibe Op (2)	Allan Tuite
Vibe Op (3)	Craig Walters
Vibe Op (4)	June Harland
Line Boss	Daryn Bishoff
T/Shooter	Bryan Ngatai
Line Crew	Francis Alcala
Line Crew	Peter Bell
Line Crew	Charles Glen
Line Crew	Zaac Chase
Line Crew	Eileen Collom
Line Crew	Daniel Dowling
Line Crew	Simon McCollin
Line Crew	Greg McLeod
Line Crew	Mitchell Roll
Line Crew	Dion Watty
Line Crew	Andrew Moody
Line Crew	Lliam Shuttleworth
Line Crew	Madeleine Mitchell
Line Crew	Steve Zimmerman
Line Crew	Simon Shields
Line Crew	Darren Spinks

PERSONNEL - CREW NUMBERS

Positon	Numbers
Crew Manager	1
HSE Advisor	1
Observer	1
Cable / Geophone Repair	1
Vibe Tech	1
Vibe Op	4
Line Boss	1
T/Shooter	1
Line Crew	16

APPENDIX G

DAILY REPORTS

		Terrex Seismic Daily Report				CREW 401	
		Client.....	GSLM		Party Manager..	Jon Turner	
		Survey Name.....	Tasmania Basin Survey		Weather.....	Fine	
		Area.....	Zeehan		DATE.....	21-Mar-07	
State.....	Tasmania						

Line #	Stn	Stn	Total Stns	Skips	Vp's	Kms	TOTALS	
TB02B-ZF	1034.5	1572.5	539	53	486	10.78	VP's....	486
							Skips....	53
							Kms....	10.78
Line completed								
							Cum. Total Skips....	55
							Cum. Total Vp's....	518
							Cum. Total Kms....	11.4400

HOURS		Recording.....	8.4	Down Time -		Troubleshoot.....	0.3	
		Recorder Move.....	0.6			Recorder.....		
		Line Change.....	0.9			Vibes.....		
		Detours/Terrain.....	0.1			W / on Spread.....		
		W.O.S.....				Other.....		
		QC Spread.....	0.6					
		Travel.....	0.5					
		Layout Spread.....						Day Charge Hrs..... 11.1
		Pickup Spread.....						Cum. Day Charge Hrs (Job).... 17.6
		Weather.....						Standby Hrs..... 0.3
		Mobilisation....				Toolbox / Induction.....	0.3	Cum. Standby Hrs (Job).... 1.1
		Cum. Mobilisation....	17.0			Total Down Time.....	0.3	Total Day. Incl Non Charge Hrs. 11.7
						Cum. Down Time (Job).....	0.3	Cum. Total Charge Hrs (Job).... 18.7
								Cum. Total. Incl Non Charge Hrs (Job) 36.0

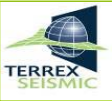
COMMENTS: Continued production 10.78 kms An excellent days production today, line crew working well with traffic management. PM scouted line ZD with Zeehan Rep, conditions not acceptable for seismic acquisition. Accommodation changed for line crew tomorrow with all personnel to be Located at Zeehan, 15 people to move from Queenstown tomorrow. Completed production on line ZF today and commenced layout on line ZC. Total Crew #'s : 27, 23 personnel in the field Bad Equipment : Cable - 1, Phones - 5	Layout Pickup									
	Line		Station #		Tot	Line		Station #		Tot
	TB02B-ZF	1241	1572	332	TB02B-ZF	1000	1455	456		
	TB02B-ZC	1000	1220	221						

LTI= 0		MTI= 0		FAC= 0		Total Stations : 553		Total Stations: 456	
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EXTRA PERSONNEL		EXTRA VEHICLES	
1 Security Guard		1	
Charge Day....	1	Charge Day....	1
Cum. Charge Days (Job)....	2	Cum. Charge Days (Job)....	2

TRAFFIC MANAGEMENT Recording Crew		TRAFFIC MANAGEMENT Survey Crew	
Supervisor with Vehicle	2 Man Crews with Vehicle	Supervisor with Vehicle	2 Man Crew with Vehicle
1	6	1	1
Charge Day.....	1.0	Charge Day.....	
Cum. Charge Days (Job)...	2.0	Cum. Charge Days (Job)...	6.0
COMMENTS:		COMMENTS:	

Crew Manager _____

		Terrex Seismic Daily Report				CREW 401	
		Client.....	GSLM		Party Manager..	Jon Turner	
		Survey Name.....	Tasmania Basin Survey		Client Rep.....	Diego Gonzalez	
		Area.....	Zeehan		Weather.....	Fine	
	State.....	Tasmania		DATE.....	22-Mar-07		

Line #	Stn	Stn	Total Stns	Skips	Vp's	Kms		TOTALS
TB02B-ZC	1000.5	1482.5	483	108	375	9.64		VP's.... 375 Skips.... 108 Kms.... 9.64
							Cum. Total Skips.... 163 Cum.Total Vp's.... 893 Cum. Total Kms.... 21.0800	

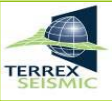
HOURS Recording..... 6.2 Recorder Move..... 1.2 Line Change..... 1.2 Detours/Terrain..... W.O.S..... QC Spread..... Travel..... 0.5 Layout Spread..... Pickup Spread..... Operational Standby..... 2.6 Mobilisation..... Cum. Mobilisation..... 17.0	Down Time - Troubleshoot..... Recorder..... Vibes..... W / on Spread..... Other..... Toolbox / Induction..... 0.3 Total Down Time..... 0.0 Cum. Down Time (Job)..... 0.3	Day Charge Hrs..... 9.1 Cum.Day Charge Hrs (Job).... 26.7 Standby Hrs..... 2.9 Cum.Standby Hrs (Job).... 4.0 Total Day.Incl Non Charge Hrs. 12.0 Cum.Total Charge Hrs (Job).... 30.7 Cum.Total.Incl Non Charge Hrs (Job) 48.0
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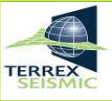
COMMENTS: Continued production 9.64 kms Early finish to production today due problems with traffic plan permits. Operations stopped at 4:00pm. Temporary permit to work received late today, normal operations to resume tomorrow. Line crew working well, production rates good. Repairs to spread truck completed today, will need to be inspected at Burnie by Tues. .next week. Total Crew #'s : 27, 23 personnel in the field Bad Equipment : Cable - 0, Phones - 4	Layout Line	Station #	Tot	Pickup Line	Station #	Tot		
	TB02B-ZC	1221	1640	420	TB02B-ZF	1456	1572	117
					TB02B-ZC	1000	1300	301
	Total Stations :		420		Total Stations:		418	

EXTRA PERSONNEL 1 Security Guard Charge Day.... 1 Cum. Charge Days (Job).... 3	EXTRA VEHICLES 1 Charge Day.... 1 Cum. Charge Days (Job).... 3
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TRAFFIC MANAGEMENT Recording Crew Supervisor with Vehicle 1 Charge Day..... 1.0 Cum. Charge Days (Job).... 3.0	TRAFFIC MANAGEMENT Survey Crew Supervisor with Vehicle 1 Charge Day..... Cum. Charge Days (Job).... 6.0
COMMENTS:	

Crew Manager _____

Terrex Seismic Daily Report										
		Client.....		GSLM		Party Manager..		CREW 401		
		Survey Name.....		Tasmania Basin Survey		Client Rep.....		Jon Turner		
		Area.....		Zeehan		Weather.....		Fine		
		State.....		Tasmania		DATE.....		23-Mar-07		
Line #	Stn	Stn	Total Stns	Skips	Vp's	Kms	TOTALS			
TB02B-ZC	1483.5	1777.5	295	6	289	5.90	VP's....	289		
							Skips....	6		
							Kms....	5.90		
							Cum. Total Skips....	169		
							Cum.Total Vp's....	1182		
							Cum. Total Kms....	26.9800		
HOURS										
Recording.....			4.4	Down Time -						
Recorder Move.....			0.6	Troubleshoot.....						
Line Change.....				Recorder.....						
Detours/Terrain.....				Vibes.....			0.8			
W.O.S.....				W / on Spread.....						
QC Spread.....			0.5	Other.....						
Travel.....			0.6							
Layout Spread.....							Day Charge Hrs.....	6.1		
Pickup Spread.....				Toolbox / Induction.....			0.3	Cum.Day Charge Hrs (Job)...	32.8	
Weather Standby.....			4.8	Total Down Time.....			0.8	Standby Hrs.....	5.1	
Mobilisation....								Cum.Standby Hrs (Job)...	9.1	
Cum. Mobilisation....			17.0	Cum. Down Time (Job).....			1.1	Total Day.Incl Non Charge Hrs.	12.0	
								Cum.Total Charge Hrs (Job)...	41.9	
								Cum.Total.Incl Non Charge Hrs (Job)	60.0	
COMMENTS:				Layout		Pickup				
				Line	Station #	Tot	Line	Station #	Tot	
Continued production 5.90 kms				TB02B-ZC	1641	2002	362	TB02B-ZC	1301	1617
Intermittent rain today caused production delays, 4.8 hrs standby for weather.				TB02B-ZD	900	999	100			
Vibe downtime today was due to a blown hose and some problems with pad bolts.										
Completed spread layout on line ZC and commenced layout on line ZD.										
Total Crew #'s : 27, 23 personnel in the field										
Bad Equipment : Cable – 2, Phones – 0										
LTI= 0 MTI= 0 FAC= 0				Total Stations :		462	Total Stations:		317	
EXTRA PERSONNEL										
EXTRA VEHICLES										
1 Security Guard										
1										
Charge Day....			1	Charge Day....			1			
Cum. Charge Days (Job)....			4	Cum. Charge Days (Job)....			4			
TRAFFIC MANAGEMENT Recording Crew										
TRAFFIC MANAGEMENT Survey Crew										
Supervisor with Vehicle			2 Man Crews with Vehicle	Supervisor with Vehicle			2 Man Crew with Vehicle			
1			6	1			1			
Charge Day.....			1.0	Charge Day.....						
Cum. Charge Days (Job)...			4.0	Cum. Charge Days (Job)...			6.0			
COMMENTS:				COMMENTS:						
Crew Manager_____										

		Terrex Seismic Daily Report				CREW 401	
		Client.....	GSLM		Party Manager..	Jon Turner	
		Survey Name.....	Tasmania Basin Survey		Client Rep.....	Diego Gonzalez	
		Area.....	Zeehan		Weather.....	Fine	
	State.....	Tasmania		DATE.....	24-Mar-07		

Line #	Stn	Stn	Total Stns	Skips	Vp's	Kms	TOTALS	
TB02B-ZC	1778.5	2002.5	225	8	217	4.50	VP's....	367
TB02B-ZD	900.5	1052.5	153.00	3	150	3.04	Skips....	11
							Kms....	7.54
							Cum. Total Skips....	180
							Cum.Total Vp's....	1549
							Cum. Total Kms....	34.5200

HOURS		Recording.....	5.4	Down Time -		Troubleshoot.....		
		Recorder Move.....				Recorder.....		
		Line Change.....	0.4			Vibes.....	0.3	
		Detours/Terrain.....				W / on Spread.....		
		W.O.S.....				Other.....	2.8	Leakage
		QC Spread.....	1.4					
		Travel.....	0.4					
		Layout Spread.....						Day Charge Hrs..... 7.6
		Pickup Spread.....				Toolbox / Induction.....	0.3	Cum. Day Charge Hrs (Job).... 40.4
		Weather Standby.....	0.6			Total Down Time.....	3.1	Standby Hrs..... 0.9
		Mobilisation....						Cum. Standby Hrs (Job).... 10.0
		Cum. Mobilisation....	17.0					Total Day. Incl Non Charge Hrs. 11.6
						Cum. Down Time (Job)....	4.2	Cum.Total Charge Hrs (Job).... 50.4
								Cum.Total. Incl Non Charge Hrs (Job) 71.6

COMMENTS: Continued production 7.54 kms Rain delays again today, with 3 hours down due to leakage in the cable. Some problems with constant noise on some channels due to mine works in the area. 2 Batteries stolen off line overnight, replaced this morning, were taken from spread Layed through town. Total Crew #'s : 27, 23 personnel in the field Bad Equipment : Cable – 10, Phones –10	Layout Pickup									
	Line		Station #		Tot	Line		Station #		Tot
	TB02B-ZD	1000	1400	401	TB02B-ZC	1618	2002	385		

LTI= 0	MTI= 0	FAC= 0	Total Stations : 401
		Total Stations: 385	

EXTRA PERSONNEL		EXTRA VEHICLES	
1 Security Guard		1	
Charge Day....	1	Charge Day....	1
Cum. Charge Days (Job)....	5	Cum. Charge Days (Job)....	5

TRAFFIC MANAGEMENT Recording Crew		TRAFFIC MANAGEMENT Survey Crew	
Supervisor with Vehicle	2 Man Crews with Vehicle	Supervisor with Vehicle	2 Man Crew with Vehicle
1	6	1	1
Charge Day.....	1.0	Charge Day.....	
Cum. Charge Days (Job)...	5.0	Cum. Charge Days (Job)...	6.0
COMMENTS:		COMMENTS:	

Crew Manager_____

		Terrex Seismic Daily Report				CREW 401	
		Client.....	GSLM		Party Manager..	Jon Turner	
		Survey Name.	Tasmania Basin Survey		Client Rep.....	Diego Gonzalez	
		Area.....	Zeehan		Weather.....	Fine	
	State.....	Tasmania		DATE.....	25-Mar-07		

Line #	Stn	Stn	Total Stns	Skips	Vp's	Kms		TOTALS
TB02B-ZD	1053.5	1400.5	348	18	330	6.96		VP's... 480
TB02B-ZA	1000.5	1014.5	15	0	150	0.28		Skips... 18
								Kms... 7.24
								Cum. Total Skips.... 198
								Cum. Total Vp's.... 2029
								Cum. Total Kms.... 41.7600

HOURS	Recording..... 5.5 Recorder Move..... 0.4 Line Change..... 1.1 Detours/Terrain..... W.O.S..... QC Spread..... 0.5 Travel..... 0.6 Layout Spread..... Pickup Spread..... Weather Standby..... Mobilisation..... Cum. Mobilisation.... 17.0	Down Time - Troubleshoot..... Recorder..... Vibes..... 0.7 W / on Spread..... 0.5 Other..... 2.4 Leakage	Day Charge Hrs..... 8.1 Cum. Day Charge Hrs (Job)... 48.5 Standby Hrs..... 0.3 Cum. Standby Hrs (Job)... 10.3 Total Day. Incl Non Charge Hrs. 12.0 Cum. Total Charge Hrs (Job)... 58.8 Cum. Total. Incl Non Charge Hrs (Job) 83.6
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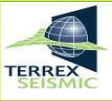
COMMENTS: Continued production 7.24 kms Down Time today was early morning, still attempting to find problems with low Channels on line ZD, constant noise on approx 7 channels, appears to be associated With mining operations in the area, continued production with noisy channels noted For processing. Vibe downtime today was due to a problem with the hydraulics late in the day, pad would Not lift and was locked on the ground, vibe tech, operator and traffic control remained Late to correct the problem, had hoses made to use spare vibe hydraulics to Lift the pad and drive the vibe off the main road, completed by midnight, vibe still down. Total Crew #'s : 27, 23 personnel in the field Bad Equipment : Cable - 4, Phones -5	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">Layout Line</th> <th style="width:10%;">Station #</th> <th style="width:10%;">Tot</th> <th style="width:10%;">Pickup Line</th> <th style="width:10%;">Station #</th> <th style="width:10%;">Tot</th> </tr> <tr> <td>TB02B-ZA</td> <td>1000</td> <td>1250</td> <td>251</td> <td>TB02B-ZD</td> <td>900</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1400</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>501</td> </tr> </table>	Layout Line	Station #	Tot	Pickup Line	Station #	Tot	TB02B-ZA	1000	1250	251	TB02B-ZD	900						1400						501
Layout Line	Station #	Tot	Pickup Line	Station #	Tot																				
TB02B-ZA	1000	1250	251	TB02B-ZD	900																				
					1400																				
					501																				

LTI= 0	MTI= 0	FAC= 0	Total Stations :	251	Total Stations:	501
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EXTRA PERSONNEL 1 Security Guard Charge Day.... 1 Cum. Charge Days (Job).... 6	EXTRA VEHICLES 1 Charge Day.... 1 Cum. Charge Days (Job).... 6
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TRAFFIC MANAGEMENT Recording Crew Supervisor with Vehicle 1 2 Man Crews with Vehicle 6 Charge Day..... 1.0 Cum. Charge Days (Job)... 6.0	TRAFFIC MANAGEMENT Survey Crew Supervisor with Vehicle 1 2 Man Crew with Vehicle 1 Charge Day..... Cum. Charge Days (Job)... 6.0
COMMENTS:	COMMENTS:

Crew Manager _____

		Terrex Seismic Daily Report				CREW 401	
		Client.....	GSLM		Party Manager..	Jon Turner	
		Survey Name.....	Tasmania Basin Survey		Client Rep.....	Diego Gonzalez	
		Area.....	Zeehan		Weather.....	Fine	
		State.....	Tasmania		DATE.....	26-Mar-07	

Line #	Stn	Stn	Total Stns	Skips	Vp's	Kms		TOTALS
TB02B-ZA	1015.5	1580.5	566	4	562	11.32		VP's.... 562 Skips.... 4 Kms.... 11.32
							Cum. Total Skips.... 202 Cum. Total Vp's.... 2591 Cum. Total Kms.... 53.0800	

HOURS	Recording..... 8.6 Recorder Move..... 0.5 Line Change..... Detours/Terrain..... W.O.S..... QC Spread..... 0.8 Travel..... 0.7 Layout Spread..... Pickup Spread..... Weather Standby..... Mobilisation..... Cum. Mobilisation..... 17.0	Down Time - Troubleshoot..... 1.0 Recorder..... Vibes..... W / on Spread..... Other..... Toolbox / Induction..... 0.3 Total Down Time..... 1.0 Cum. Down Time (Job)..... 8.8	Day Charge Hrs..... 10.6 Cum. Day Charge Hrs (Job).... 59.1 Standby Hrs..... 0.3 Cum. Standby Hrs (Job).... 10.6 Total Day. Incl Non Charge Hrs. 11.9 Cum. Total Charge Hrs (Job).... 69.7 Cum. Total. Incl Non Charge Hrs (Job) 95.5
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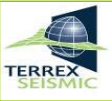
COMMENTS: Continued production 11.32 kms An excellent days production today, highest production day for all work in Tasmania. Vibe problems repaired by vibe tech, all vibes operational. Acquisition will be completed tomorrow, move to Miena on Wednesday. Total Crew #'s : 27, 23 personnel in the field Bad Equipment : Cable – 2, Phones –1	Layout Line	Station #	Tot	Pickup Line	Station #	Tot		
	TB02B-ZA	1251	1800	550	TB02B-ZA	1000	1406	407

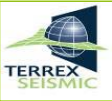
LTI= 0 MTI= 0 FAC= 0	Total Stations : 550	Total Stations: 407	
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EXTRA PERSONNEL 1 Security Guard Charge Day.... 1 Cum. Charge Days (Job).... 7	EXTRA VEHICLES 1 Charge Day.... 1 Cum. Charge Days (Job).... 7
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TRAFFIC MANAGEMENT Recording Crew Supervisor with Vehicle 1 2 Man Crews with Vehicle 6 Charge Day..... 1.0 Cum. Charge Days (Job).... 7.0 COMMENTS:	TRAFFIC MANAGEMENT Survey Crew Supervisor with Vehicle 1 2 Man Crew with Vehicle 1 Charge Day..... Cum. Charge Days (Job).... 6.0 COMMENTS:
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Crew Manager _____

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		Terrex Seismic Daily Report				CREW 401	
		Client.....	GSLM		Party Manager..	Jon Turner	
		Survey Name.	Tasmania Basin Survey		Client Rep.....	Diego Gonzalez	
		Area.....	Zeehan		Weather.....	Fine	
	State.....	Tasmania		DATE.....	05-May-07		

Line #	Stn	Stn	Total Stns	Skips	Vp's	Kms	TOTALS	
TB02B-ZB	1600.5	1519.5	82	2	80	1.64	VP's....	80
							Skips....	2
							Kms....	1.64
							Cum. Total Skips....	208
							Cum.Total Vp's....	2951
							Cum. Total Kms....	54.7200

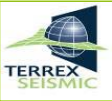
HOURS		Recording..... 1.2 Recorder Move..... Prospect Change..... 1.0 Detours/Terrain..... W.O.S..... 1.1 QC Spread..... 0.4 Travel..... 0.7 Other..... 2.5 Layout Spread..... 4.0 Pickup Spread..... Weather Standby..... Mobilisation..... Cum. Mobilisation.....	Down Time -	Troubleshoot..... 0.3 Recorder..... Vibes..... W / on Spread..... Other..... Toolbox / Induction..... 0.3 Total Down Time..... 0.3 Cum. Down Time (Job)..... 9.2	Day Charge Hrs..... 10.9 Cum.Day Charge Hrs (Job).... 79.6 Standby Hrs..... 0.3 Cum.Standby Hrs (Job).... 11.2 Total Day.Incl Non Charge Hrs. 11.5 Cum.Total Charge Hrs (Job).... 90.8 Cum.Total.Incl Non Charge Hrs (Job) 117.0
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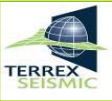
COMMENTS: Production km's 1.64 Line move from Queenstown to Zeehan Load line vehicles from spread transport Lay spread on TB02b – ZB Other = Scout handcarry and river crossing under instruction from Paul from Zeehan Zinc Two Vibes arrived Zeehan late afternoon 4/5 The last two arrived midday 5/5/07 First shot taken at 3:10 pm. Total Crew #'s : 27, 23 personnel in the field Bad Equipment : Cable – 2, Phones –1	Layout Line	Station #	Tot	Pickup Line	Station #	Tot	
	TB02b-ZB	1600	1311	289			0

LTI= 0	MTI= 0	FAC= 0	Total Stations : 289
EXTRA PERSONNEL		EXTRA VEHICLES	
1 Security Guard		1	
Charge Day.... 1	Charge Day.... 1		
Cum. Charge Days (Job).... 8	Cum. Charge Days (Job).... 8		

TRAFFIC MANAGEMENT Recording Crew		TRAFFIC MANAGEMENT Survey Crew	
Supervisor with Vehicle	2 Man Crews with Vehicle	Supervisor with Vehicle	2 Man Crew with Vehicle
1	6	1	1
Charge Day..... 1.0	Charge Day.....	Charge Day.....	
Cum. Charge Days (Job).... 9.0	Cum. Charge Days (Job).... 6.0		
COMMENTS:		COMMENTS:	

Crew Manager _____

Terrex Seismic Daily Report											
		Client..... GSLM Survey Name..... Tasmania Basin Survey Area..... Zeehan State..... Tasmania		Party Manager..... Jon Turner Client Rep..... Diego Gonzalez Weather..... Fine DATE..... 06-May-07		CREW 401					
Line #	Stn	Stn	Total Stns	Skips	Vp's	Kms	TOTALS				
TB02b-ZB	1518.5	1391.5	125	6	249	2.55	VP's....	249			
							Skips....	6			
							Kms....	2.55			
Stn 1390.5 – 1235.5 = 155 stn skip for swamp Please note VP's calculated at 10 meter intervals											
							Cum. Total Skips....	214			
							Cum.Total Vp's....	3200			
							Cum. Total Kms....	57.2700			
HOURS											
Recording..... 6.1				Down Time -							
Recorder Move.....				Troubleshoot..... 0.2							
Prospect Change.....				Recorder..... 0.1							
Detours/Terrain.....				Vibes.....							
W.O.S..... 1.2				W / on Spread.....							
QC Spread..... 0.5				Other.....							
Travel..... 1.8											
Other.....											
Layout Spread.....											
Pickup Spread.....				Toolbox / Induction..... 0.3							
Weather Standby..... 1.8				Total Down Time..... 0.3							
Mobilisation.....											
Cum. Mobilisation.....				Cum. Down Time (Job)..... 9.5							
							Day Charge Hrs.....	9.6			
							Cum.Day Charge Hrs (Job)...	89.2			
							Standby Hrs.....	2.1			
							Cum.Standby Hrs (Job)...	13.3			
							Total Day.Incl Non Charge Hrs.	12.0			
							Cum.Total Charge Hrs (Job)...	102.5			
							Cum.Total.Incl Non Charge Hrs (Job)	129.0			
COMMENTS: Production km's 2.55 Continued production on TB02b-ZB Continuing downpores delayed production Zion Zink personnel aided Terrex personnel with hand carry section – Very thick rain forest Retrieval crew followed Vibes down Marraposa track. Half station Vib points where intergrated into production to increase fold coverage. Two Vibes floated to Burnie by Barry Walsh Total Crew #'s : 27, 23 personnel in the field Bad Equipment : Cable – 1, Phones –0											
Layout		Station #		Tot		Pickup		Station #		Tot	
Line		Line		Line		Line		Line		Line	
TBO2b-ZB		1310 1160		150						0	
LTI= 0		MTI= 0		FAC= 0		Total Stations :		150		Total Stations: 0	
EXTRA PERSONNEL											
1 Security Guard											
Charge Day.... 1											
Cum. Charge Days (Job).... 8											
EXTRA VEHICLES											
1											
Charge Day.... 1											
Cum. Charge Days (Job).... 8											
TRAFFIC MANAGEMENT Recording Crew											
Supervisor with Vehicle 1											
2 Man Crews with Vehicle 6											
Charge Day..... 1.0											
Cum. Charge Days (Job).... 10.0											
TRAFFIC MANAGEMENT Survey Crew											
Supervisor with Vehicle 1											
2 Man Crew with Vehicle 1											
Charge Day..... 6.0											
Cum. Charge Days (Job).... 6.0											
COMMENTS:											
Crew Manager _____											

Terrex Seismic Daily Report																					
		Client..... GSLM Survey Name..... Tasmania Basin Survey Area..... Zeehan State..... Tasmania				Party Manager..... Jon Turner Client Rep..... Diego Gonzalez Weather..... Wet DATE..... 07-May-07															
Line #	Stn	Stn	Total Stns	Skips	Vp's	Kms	TOTALS														
TB02B-ZB	1235	1160	75	6	149	1.50	VP's....	149													
							Skips....	6													
							Kms....	1.50													
Please note VP's calculated at 10 meter intervals																					
							Cum. Total Skips....	220													
							Cum.Total Vp's....	3349													
							Cum. Total Kms....	56.2200													
HOURS																					
Recording..... 2.3				Down Time -																	
Recorder Move.....				Troubleshoot.....																	
Prospect Change.....				Recorder.....																	
Detours/Terrain.....				Vibes..... 0.1																	
W.O.S.....				W / on Spread.....																	
QC Spread..... 0.5				Other.....																	
Travel..... 1.0																					
Other..... 0.5																					
Layout Spread.....				Day Charge Hrs..... 11.3																	
Pickup Spread..... 7.0				Cum.Day Charge Hrs (Job).... 100.5																	
Weather Standby.....				Standby Hrs..... 0.3																	
Mobilisation.....				Cum.Standby Hrs (Job).... 13.6																	
Cum. Mobilisation.....				Total Day.Incl Non Charge Hrs. 11.7																	
				Cum.Total Charge Hrs (Job).... 114.1																	
				Cum.Total.Incl Non Charge Hrs (Job) 140.7																	
COMMENTS:																					
Production km's 1.5																					
Continued production on TB02b-ZB																					
TB02b-ZB completed																					
Zeehan Zink personnel aided Terrex personnel with hand carry section – Very thick rain forest																					
Security personnel left site – not required																					
Half station Vib points where integrated into production to increase fold coverage.																					
GSLM / Zeehan Zinc program completed																					
3 rd Vib and 1 spread truck floate4d to Burnie by Barry Walsh																					
Total Crew #'s : 27, 23 personnel in the field																					
Bad Equipment : Cable – 1, Phones –0																					
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Layout Line	Station #	Tot	Pickup Line	Station #	Tot																
TB02b-ZB		0	TB02b-ZB	1600	440																
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COMMENTS:																					
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Crew Manager _____																					

APPENDIX H

RECORDING STATISTICS

RECORDING STATISTICS

Date	Mobilisation	Inter-Prospect Move Chargeable	Travel Time Chargeable	Downtime Non-Chargeable	Recording Chargeable	Layout/Pick-up Spread Chargeable	WOS Chargeable	QC Spread Chargeable	Recorder/Vibrator Move Chargeable	Other Chargeable	Detours & Terrain Chargeable	Line Change Chargeable	Testing & Troubleshooting Non-Chargeable	Waiting on log trucks Chargeable	Weather / Other Stand-by	Safety Meetings Stand-by	Total Stand-by Chargeable	Total Hours Chargeable	Total Hours Operational	Total Km's	Traffic Management Survey	Traffic Management Recording	Traffic Management Survey & Recording	Supervisor	Extra Personnel	Extra vehicle
19 March 2007	12.00															0.30	0.30	-	12.30		1					
20 March 2007	5.00		0.80		0.60	5.10										0.50	0.50	6.50	12.00	0.66			1	1	1	1
21 March 2007			0.50		8.40			0.60	0.60		0.10	0.90	0.30			0.30	0.30	11.10	11.70	10.78	1	1		1	1	1
22 March 2007			0.50		6.20				1.20			1.20			2.60	0.30	2.90	9.10	12.00	9.64	1	1		1	1	1
23 March 2007			0.60	0.80	4.40			0.50	0.60						4.80	0.30	5.10	6.10	12.00	5.90	1	1		1	1	1
24 March 2007			0.40	3.10	5.40			1.40				0.40			0.60	0.30	0.90	7.60	11.60	7.54	1	1		1	1	1
25 March 2007			0.60	3.60	5.50			0.50	0.40			1.10				0.30	0.30	8.10	12.00	7.24	1	1		1	1	1
26 March 2007			0.70		8.60			0.80	0.50				1.00			0.30	0.30	10.60	11.90	11.32	1	1		1	1	1
27 March 2007			0.80		4.50	3.50		0.50	0.30				0.10			0.30	0.30	9.60	10.00	5.68	1	1		1	1	1
5 May 2007	1.00		0.70		1.20	4.00	1.10	0.40		2.50						0.30	0.30	10.90	11.20	1.64			1			1
6 May 2007			1.80	0.10	6.10		1.20	0.50					0.20		1.80	0.30	2.10	9.60	12.00	2.55			1			1
7 May 2007			1.00		2.30	7.00		0.50		0.50						0.30	0.30	11.30	11.60	1.50			1			1
8 May 2007										10.00							-	10.00	10.00				1			1
Total	18.00	-	8.40	7.60	53.20	19.60	2.30	5.70	3.60	13.00	0.10	3.60	1.60	-	9.80	3.80	13.60	110.50	150.30	64.45	8.00	7.00	5.00	8.00	8.00	12.00