

# BLUE ENERGY LIMITED



2008 INJUNE 2D SEISMIC SURVEY  
FIELD SUPERVISION REPORT



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**1.0 INTRODUCTION**

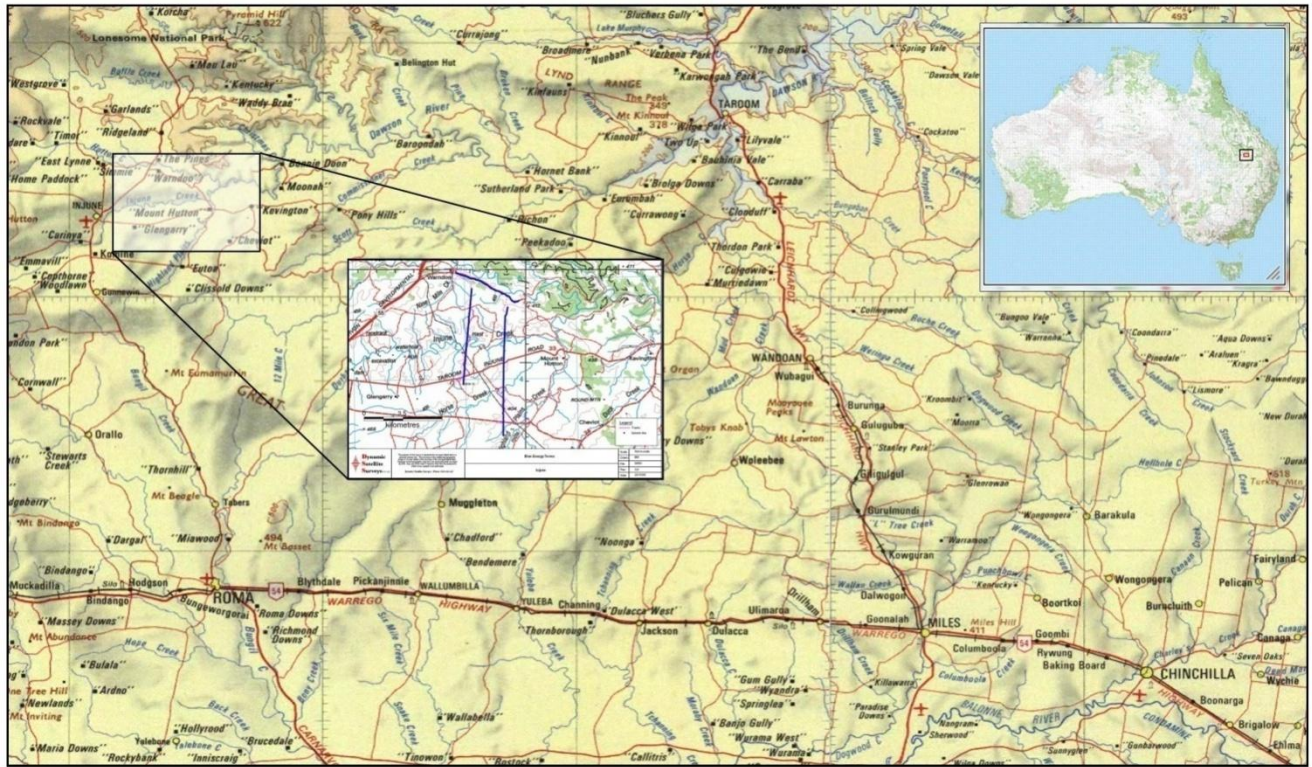
The 2008 Injune 2D Seismic Survey was operated by Blue Energy and was conducted by Terrex Seismic Crew # 404 in ATP 854P, in the South West region of Queensland.

Terrex Seismic was contracted to collect the seismic data on an hourly rate basis. Blue Energy sub-contracted (through Terrex Seismic) Dynamic Satellite Surveys (DSS) to conduct the surveying. 29.16 km of 2D seismic data was recorded on 3 lines.

The recording phase began on October 26<sup>th</sup> and was completed on October 28<sup>th</sup> 2008.

Blue Energy’s Mike Swift was in overall control of the project while Mark Kneipp was contracted to represent Blue in the field.

**Figure 1** shows the area in which the survey was held. A larger version of this map can be found in the **Appendix** section.



**Figure 1: Prospect Locality Map**

## **2.0 LOGISTICS**

The Injune 2D was located in the South West region of Queensland, 15 km or 20 minutes drive east of the township of Injune.

Due to the limited accommodation in the area, the crew could not be billeted in the one location. In order to maximize production six Line Crew, the Observer, Vibe Crew and Party Manager stayed at Aramac and the remainder in Roma, 90 km to the south.

Toolboxes were held daily at 0545 in Injune.

Daily reports were done by Terrex's Party Manager Terry Ernst and Blue Energy's representative Mark Kneipp independently for their respective companies each morning. The observers logs were analyzed first then a meeting would take place to agree on hours for the previous day.

Due to the short length of the job, no cable repair workshop was required for the Injune survey. All vehicle repairs and services were done in the field by the Vibe Technician.

In-field communications were via Terrex assigned VHF proprietary frequencies in the 170 MHz range. The Recorder, Line Boss and Party Manager also carried 40 Channel UHF radios.

On the 26<sup>th</sup> October, the crew mobilized from Moura, conducted a vehicle weed wash-down and laid out equipment. On the 27<sup>th</sup> October, a parameter test program was conducted and recording commenced. Recording was completed and equipment picked up on the 28<sup>th</sup> October. Terrex demobilized to Brisbane the next day.

Upon arrival in Injune, Terrex participated in a vehicle weed wash-down. This was held at the Injune wash-pad and was certified by accredited inspector, Ian Peters of Roma.

### **3.0 TIMETABLE of EVENTS**

- 16-Oct-08 DSS Surveyor and Blue Energy offsidiers mobilize to Injune
- 17-Oct-08 DSS commenced line survey
- 20-Oct-08 DSS completed line survey of Injune prospect
- 26-Oct-08 Terrex Seismic mobilize to Injune, wash vehicles and layout spread
- 27-Oct-08 Parameter testing conducted, recording commenced on line BE08-14. Completed line BE08-14.
- 28-Oct-08 Terrex Seismic finished line BE08-13 and BE08-15, completing the Injune 2D. The equipment was picked up and Terrex prepared for demobilization
- 29-Oct-08 Terrex demobilized to Brisbane.

#### 4.1 General Survey Details

Survey: Blue Energy Injune 2D Seismic Survey

Area: ATP 854P

Lines: **BE08-14** 207 - 851 **12.900** km

**BE08-13** 533 - 200 **6.680** km

**BE08-15** 679 - 201 **9.580** km

Total - (3 lines) **29.16**km

#### 4.2 Recording Parameters

<b>Acquisition Type:</b>	Sercel 428 - 24 Bit Telemetry System
<b>Energy Source:</b>	1 x Hemi 44 44,000lb Peak Force 6x6 Truck Mounted Vibrator
<b>Vibrator Point Interval:</b>	40 metres
<b>Vibrator Array:</b>	Point Source – single sweep
<b>Vibrator Array Location:</b>	Centered between Stations (Centered at SP 100.5)
<b>Receivers:</b>	6 x 10 Hz SM24 Geophones / Group
<b>Receiver Group Interval:</b>	20 metres
<b>Receiver Array:</b>	0.7 metres (6 phones grouped over 0.7 metres)
<b>Receiver Array Location:</b>	Centered on Station Pegs (Centered at SP 100)
<b>No. of Channels:</b>	120 Channels
<b>Spread Geometry:</b>	Symmetric Split Spread
<b>Maximum Offset:</b>	1190_10_0_10_1190 metres
<b>Sweep Length:</b>	12sec
<b>Number of Sweeps:</b>	1 per VP
<b>Sweep Type:</b>	Monosweep
<b>Sweep Frequencies:</b>	4-80 Hz
<b>Sweep Taper:</b>	300 ms Taper
<b>Fold:</b>	30 Fold
<b>Record Length:</b>	3.0 seconds
<b>Correlation Sample Rate:</b>	2 milliseconds
<b>Written to Tape S.R.:</b>	2 milliseconds
<b>Output Data Format:</b>	SEG D
<b>Sweep Control:</b>	Pelton Advance 2 Model 5
<b>Accelerometers:</b>	Pelton M5 High Performance
<b>Similarity System:</b>	Pelton VIBRA-SIG
<b>Peak Force:</b>	44000 lbs
<b>Hold Down Weight:</b>	44200 lbs
<b>Vibrator Drive Level:</b>	Force Control on - 90% Peak Force
<b>Phase Lock:</b>	Ground Force Phase Lock
<b>Data Supplied:</b>	Seismic data to be supplied as two sets of originals, "A Copy" and "B Copy" on LTO Cartridges.

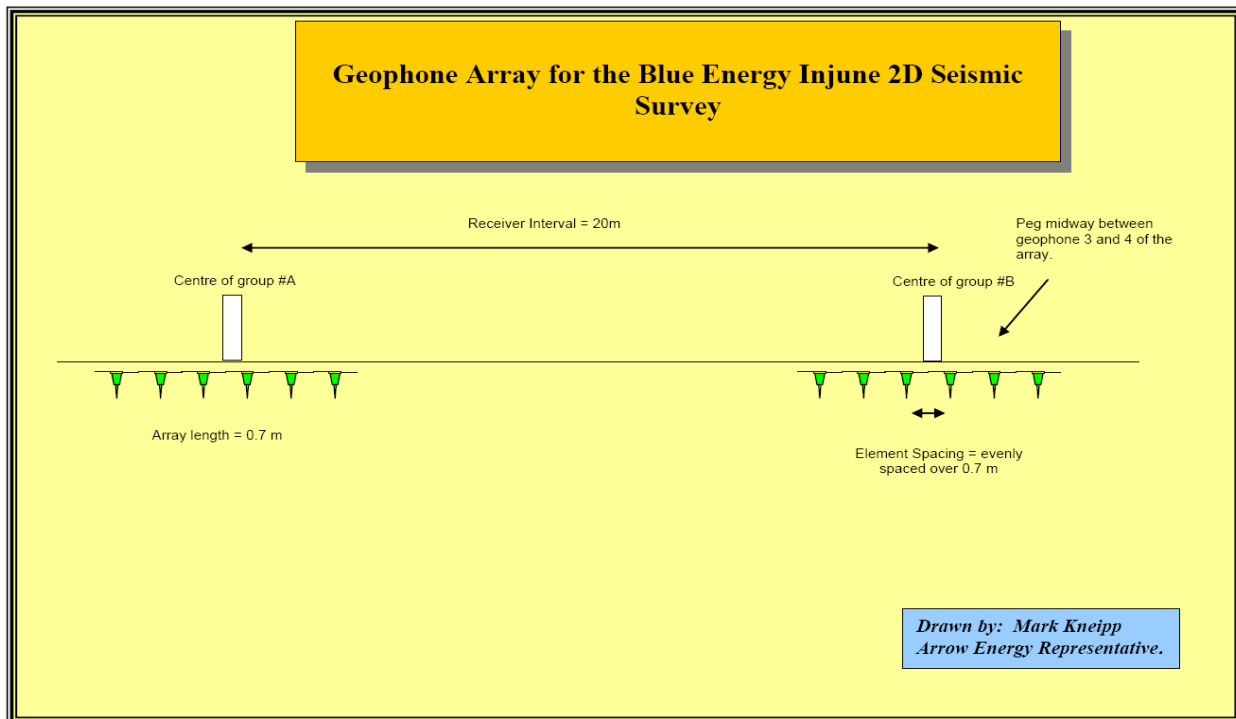


Figure 2: Diagram of Geophone Array

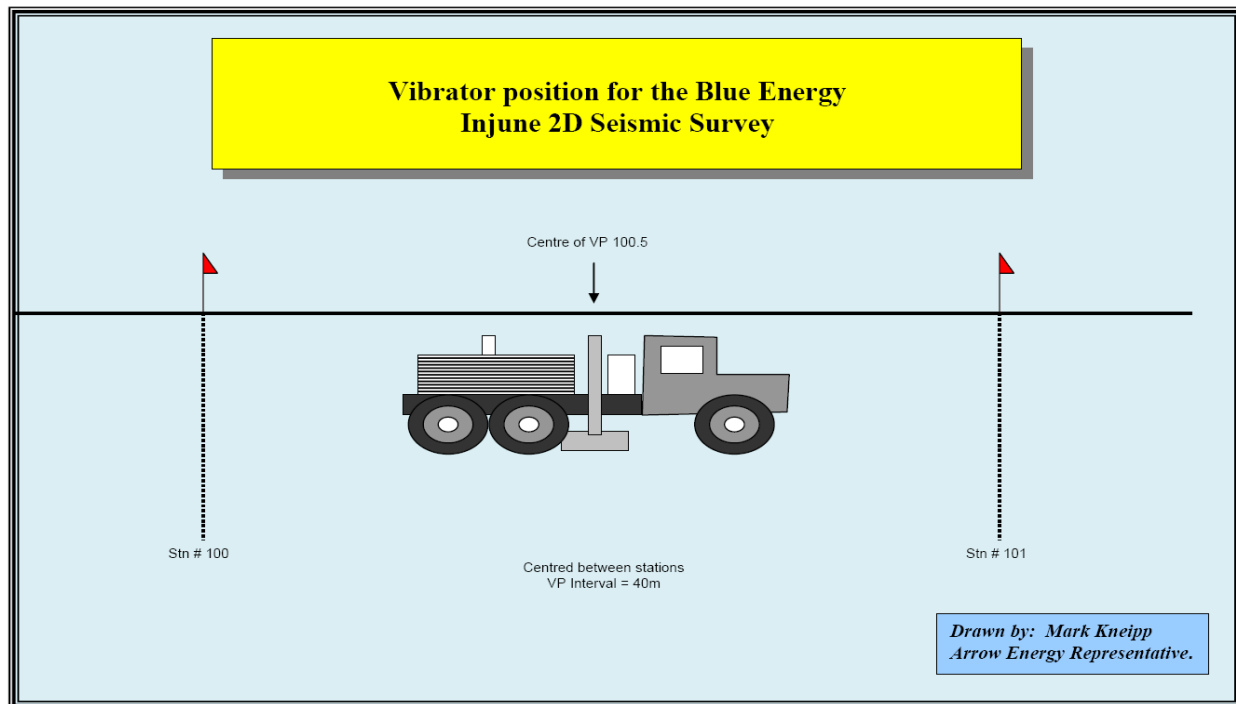


Figure 3: Diagram of Vibe Position



## 5.0 RECORDING

The 2008 Injune 2D Seismic Survey was located within ATP 854P in the South-West region of Queensland and was operated by Blue Energy Limited. Terrex Seismic carried out the survey. The recording phase was conducted from October 26<sup>th</sup> to October 28<sup>th</sup> 2008.

The contract was based on an hourly rate. A total of 29.16 km of 2D seismic data was recorded on 3 lines.

Full production statistics appear in the **Appendix** section.

### 5.1 Equipment

Terrex provided a Sercel 428XL telemetric recording system, along with a field deployment of 600 x 6 strings of Sensor SM4 10 Hz geophones.

There was one Hemi 44 44,000lb Peak Force 6x6 Truck Mounted Vibrator online with one vibrator standing by as a spare.

There was one Station Unit (SU) every station and one Line Acquisition Unit (LAUL) and battery unit every 40<sup>th</sup> station. Each cable had 4 takeouts spaced at 55m intervals.



Figure 4: Planting a group set

## 5.2 Parameters

Full parameters are listed in **Section 4.0**.

The geophones were positioned in a tight array of 70 cm (a group set) centered on the peg. There were 120 live channels with 20m receiver intervals and 40m source intervals to give a 30-fold coverage. A single vibrator was used with 1x10 second sweep and 4-64 Hz sweep frequency as the energy source.

## 5.3 Parameter Test Program

A short parameter test program was conducted by Blue Energy's Cameron Belcher prior to recording. All tests used a 120 live channel split spread. The tests consisted of:

- A sweep frequency test. A single 8 second sweep from 1 vibrator at 90% force was recorded at 4-110Hz and the results plotted with a progressively higher frequency filter. The shot was played back with no filter, 25Hz low cut, 40Hz low cut, 50Hz low cut, 60 Hz low cut & 70 low cut. By the 70Hz filter, most of the target reflectors had dissipated, and a frequency of 4-80Hz was selected.
- Next, a sweep length test was conducted. A single sweep with 1 vibe, 90% force, 4-80Hz, was recorded at 8sec, 10 sec, 6 sec, 12 sec, 14 sec & 16 sec. These were plotted with a 25Hz low cut filter and compared. The 10, 12 & 14 second records all showed similar return at the target time of 0.7 sec, however some deeper structure emerged with the 12 second sweep and this was chosen as the preferred sweep length.

Upon review of the above tests, it was decided to proceed with 1 Vibe, 90% peak force, 4-80Hz with 2 ms taper, 1x12 second sweep and a 3 second listen.

#### 5.4 Data Quality

Data quality was fair on lines BE08-14 and BE08-15, shallow structure showed well but increased winds created considerable noise, washing out much data below 1.5 seconds. BE08-13 appeared to follow a fault and monitor playbacks showed little visible structure. Sample paper monitor records are shown below in **Figures 5 and 6**

**Figure 5** shows a comparison of different frequency filters from a test sweep playback. The monitor on the left shows a low frequency filter of 25Hz. The target structure and some weak multiples can be seen, but on the right monitor, most reflectors have been filtered out by the 60Hz low-cut filter. This helped indicate a good frequency range to use as an energy source.

**Figure 6** is from a production shot from VP 421, line BE08-14. It shows a 1<sup>st</sup> break refractor of approximately 2800 metres/sec, good shallow reflection, a strong reflector at the 700 ms target and some weaker data below this. It must be noted that this sample monitor record has a 25 Hz low cut playback filter applied to them. The observers do this to cosmetically clean up the record and make it easier to trouble shoot. But the effect is to mask the lower frequencies and, in particular, the full impact of ground-roll.



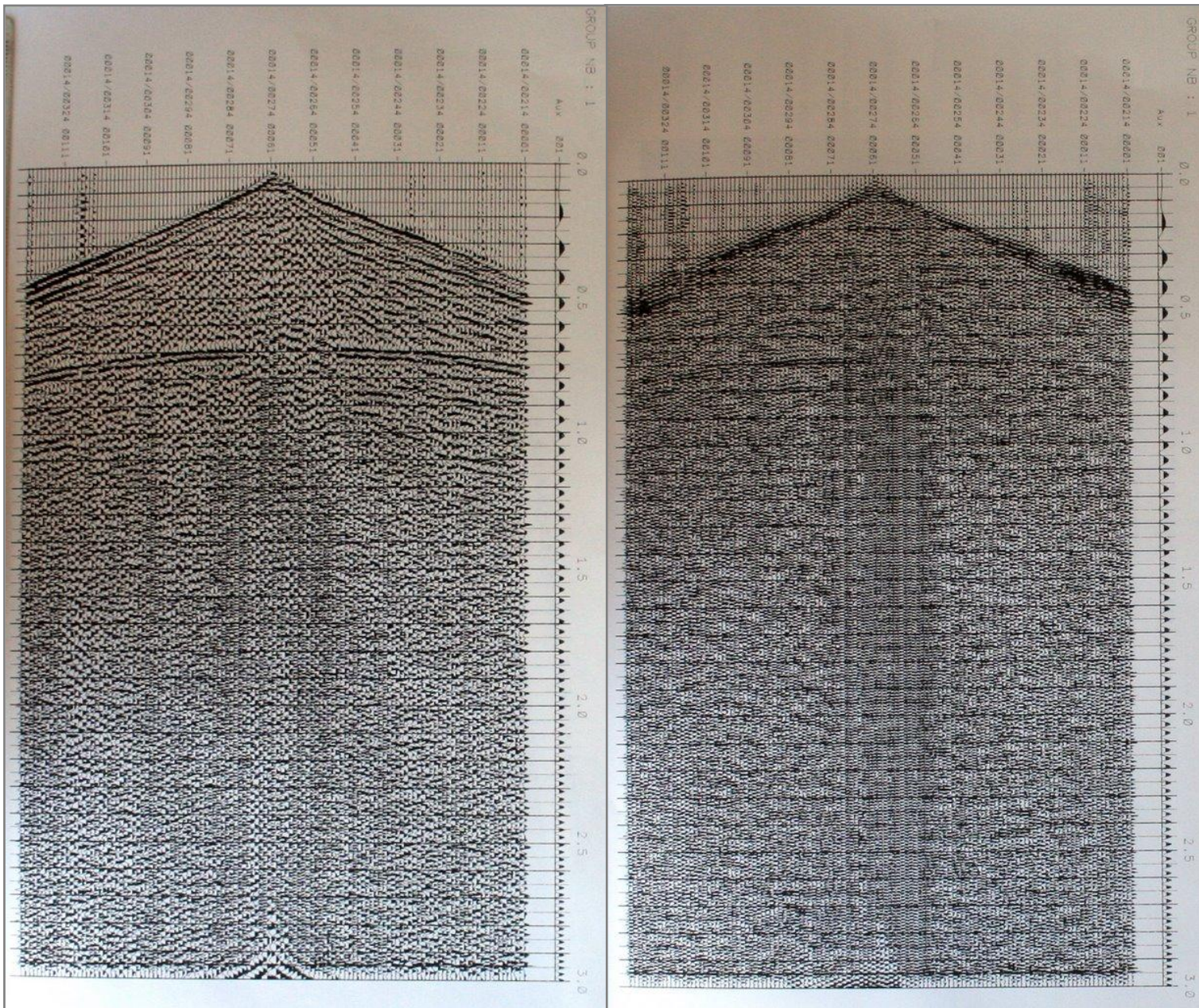


Figure 5: Frequency Filter test  
25 Hz low cut filter (left) VS 60 Hz low cut filter (right)



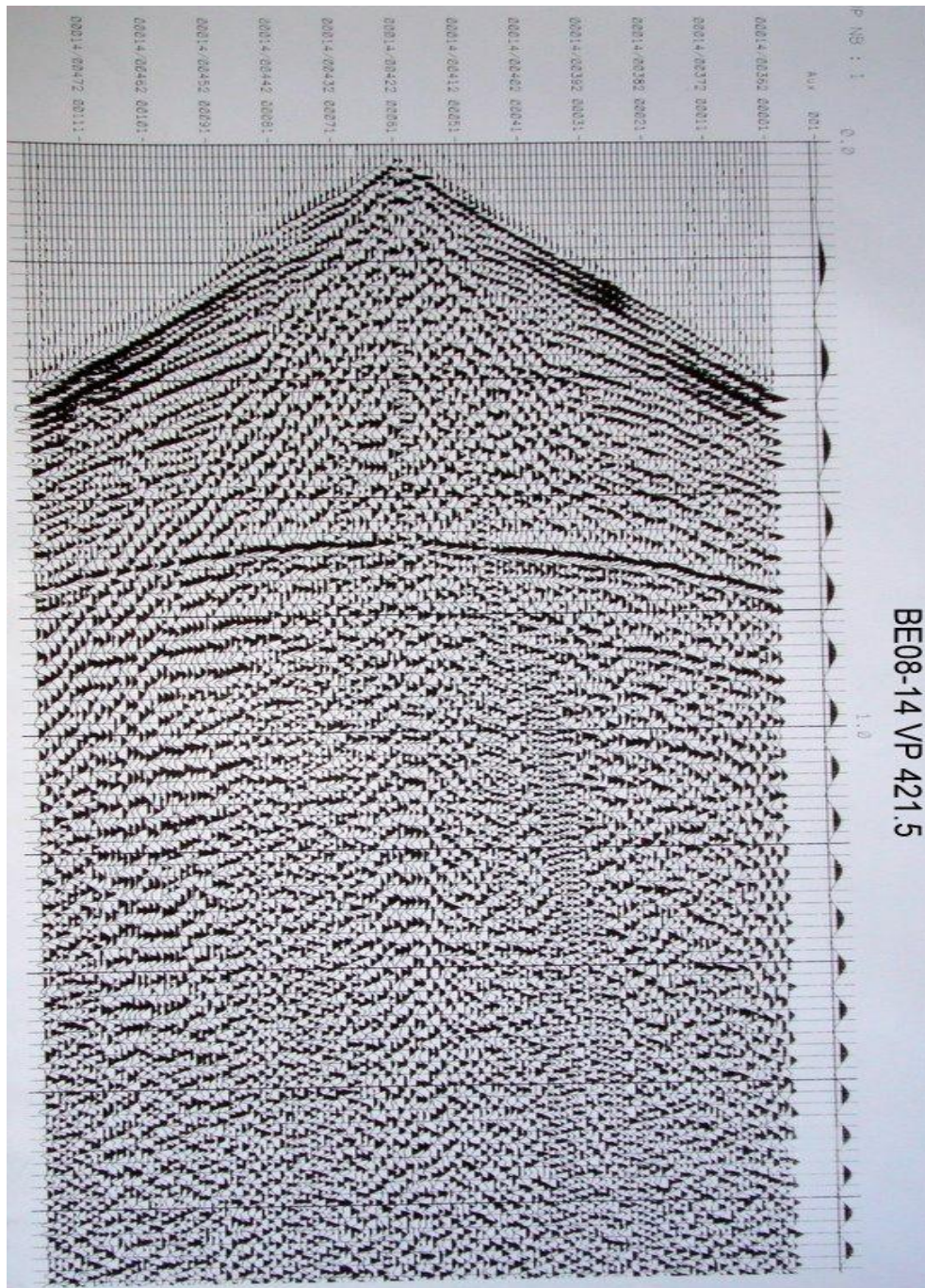


Figure 6: Sample Monitor – production VP

Line BE08-14 VP 421

## 5.0 RECORDING

### 5.5 Crew Strength

The following table details the strength and disposition of the crew:

Contract Requirement	On Crew
(1) Senior Crew Manager	(1) Terry Ernst
(1) HSE Representative	(1) Ray Auckram
(1) Geophone Repair Person	(1) Amy Bryan-Robinson
(1) Vibe Tech	(1) John Phillipson
(1) Lead Vibe Op	(1) June Harland
(1) Vibe Operators	(1) Shirley Bobrowski
(1) Observer	(1) Tom Konta
(1) Line Boss	(1) Hamish Mcleod
(4) Cable truck personnel	(6) 6 people on 3 cable trucks
(2) Jug truck	(2) 2 jug truck personnel
(8) Line crew	(8) Line crew
<b>Total Contract Requirement = 22</b>	<b>Actually on crew = 25</b>

Figure 7: Terrex Seismic Crew Strength and Disposition

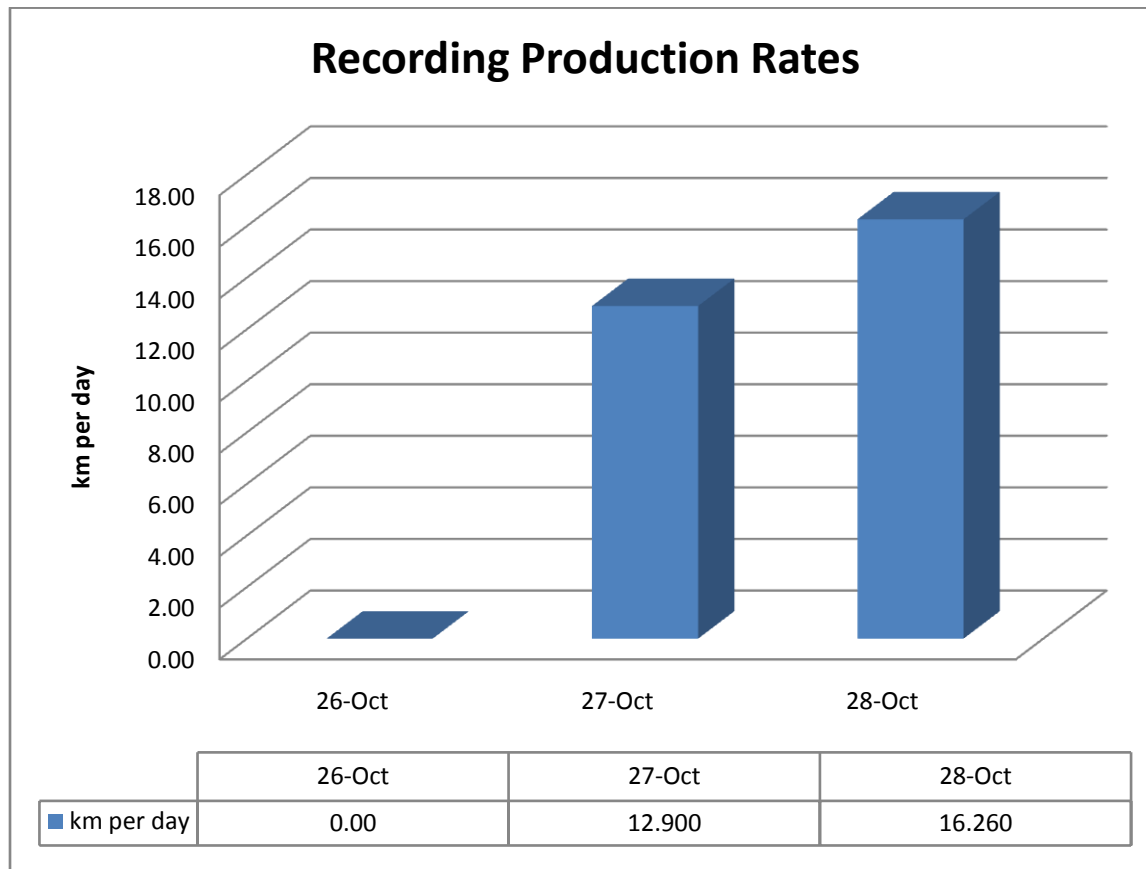
From **figure 7**, it can be seen that Terrex supplied a crew in excess to contract requirements.



**5.0 RECORDING**

**5.6 Statistics**

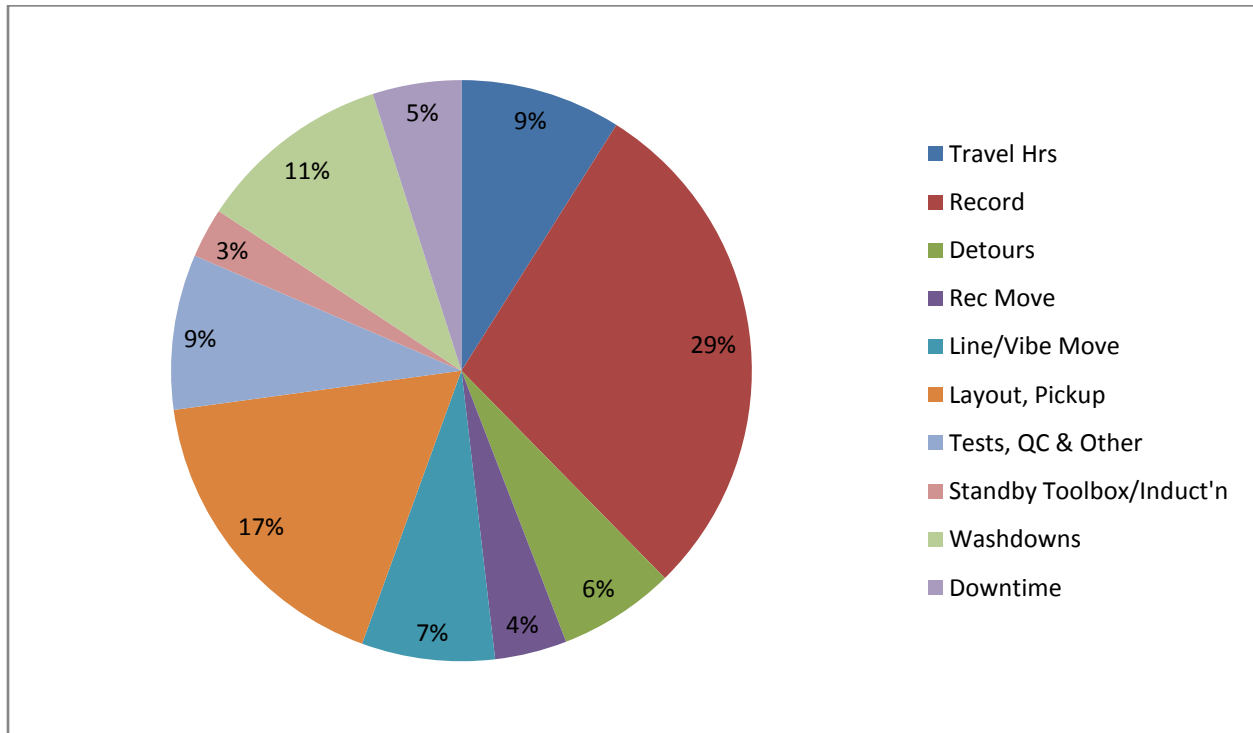
**Figure 8** below details daily production in the 2008 Injune Seismic Survey:



**Figure 8: Recording production**

**5.0 RECORDING**

**Figure 9** shows the distribution of job hours in percentage terms for the 2008 Injune Seismic Survey:



**Figure 9 Distribution of job hours**

The pie chart above shows that 29% (9.3 hrs) of total time was spent recording. The only non-production time of note was equipment layout and pickup time (17%, 5.6 hrs). Note mobilization times (4.0 hrs) have not been included in this chart.

These figures indicate standard times for a survey like the Injune 2D; often preparation time (wash-downs, spread layout, testing and pickup) consume a large portion of a small job's time.

**5.0 RECORDING**

**Figure 10** below details the statistics:

<b>Blue Energy 2008 Injune 2D Job Statistical Summary</b>	
Start Date	October 26 <sup>th</sup> , 2008
End Date	October 28 <sup>th</sup> , 2008
Total Days on Job =	3
Total Recorded Linear km	29.16
Average Km per Day	14.58
Total Recording Rate Charge Hours	29.9
Total Standby Rate Charge Hours	4.4
Total Overall Job Hours	36.4
Average Km/Recording Hr	3.14
Total VPs	933
Total Skips	0
Percentage Skips/Possible VPs	0 %
Average Recording Cycle Time	35.88 seconds/VP
Efficiency Factor (Rec Hr/Tot Hr)	29

**Figure 10: Statistical Summary**

**Figure 11** below details a summary of the recorded lines:

<b>Line</b>	<b>First Stn</b>	<b>Last Stn</b>	<b># Stns</b>	<b># VPs</b>	<b># Skips</b>	<b>Line Kms</b>
<b>BE08-15</b>	207	851	645	358	0	12.900
<b>BE08-13</b>	533	200	334	334	0	6.680
<b>BE08-14</b>	679	201	479	241	0	9.580
<b>Total</b>			<b>1458</b>	<b>933</b>	<b>0</b>	<b>29.16</b>

**Figure 11: Recording Line Summary**

### 5.7 Line Management

Tom Konta was Observer for the Injune 2D. Tom has had many years of Observing experience behind him, and performed his task admirably.

Hamish McLeod excelled as Line Boss, and maintained a close-knit, professional recording crew.

### 5.8 Summary

The recording phase of the Injune 2D went quickly, with 29.9 km recorded in less than 2 days. It was conducted unimpeded and completed ahead of schedule.



Figure 12: Terrex's recorder positioned on line BE08-14



## **6.0 SURVEY, PERMITTING, ENVIROMENT**

### **6.2 Permitting**

The 2008 Coxendean 2D seismic survey was conducted over a total of 7 pastoral properties and a gazetted road.

Permitting was conducted by Mr. Mike Swift of Blue Energy.

Line preparation, which was contracted to local landowners, was done in guidance with the Queensland Environmental Protection Act 1994(amended 2001) and the Queensland Petroleum & Gas Act 2004.

Most landowners were helpful and flexible to accommodate the survey's needs, where difficulties were encountered; the lines were re-routed to meet the agreement made during the landowner consultation period.

Consultation with the traditional landowners was conducted in the initial permitting for the job; the lines were positioned in accordance to the consultation agreement.

### **6.3 Environment and Terrain**

The Injune prospect consisted of undulating lithic sandstone and shale hills. A scarp ran East-West on the northern side of the prospect, intersecting lines BE08-15 and BE08-14.

Most of the land has been cleared and grassed for cattle grazing, although some small stands of mixed eucalypt woodland remain, mainly on steep terrain or within the boundaries of the Injune and Horse Creek systems.



**Figure 13: Examples of the terrain on prospect**



## **7.0 SAFETY**

### **7.1 Introduction**

The HSE officer on the Terrex crew was Ray Auckram. Ray is an experienced HSE officer who has worked for Terrex since 2001.

The basic tenets of the HSE policy were:

- ❑ An induction meeting prior to the start of operations at which potential hazards were identified and discussed.
- ❑ Daily toolbox meetings: these were held before departure in the mornings. They provided a forum for any safety or operational issues to be aired. These meetings were paid for by Blue Energy at the standby rate for 0.3 hrs/day;
- ❑ Weekly safety meeting: this was held on Sunday morning and was more focused on purely safety issues. The HSE officer would review the week's safety performance and included a demonstration of safe operating procedure. The Party Manager, Bird-dog and section heads added their views on crew safety performance and then comments from the various departments on the crew were invited.

All vehicles were equipped with first aid kits and fire extinguishers. About 20% of the crew were trained first aiders. Some of the safety related procedures on the crew were:

- All vehicles had headlights on at all times when driving;
- Journey management procedures were in place for all vehicles travelling outside the operational area;
- All crew members were required to wear long sleeve high-vis shirts, long pants and ankle-supporting lace-up boots;

The Terrex QHSE end of contract report and safety meeting minutes were included in the Terrex report so will not be duplicated here. There were no LTI's or incidents on this job.

### **7.2 Summary**

The Terrex safety system worked well on this job and resulted in an LTI-free program. Ray continues to excel as a HSE officer.

## **8.0 REMARKS AND RECOMMENDATIONS**

- 1) The 2008 Injune 2D of 29.16 km was completed in 2 (full) recording days at an average recording rate of 14.58 km/day.
- 2) The contract was based on an hourly rate that included layout and pickup of spread. The total full rate charge hours were 29.9 and the total standby rate charge hours were 4.4.
- 3) The data quality was fair. Using grouped phones on open plains meant they were more susceptible to noise from wind however because of the shallow target this was not a big issue.
- 4) Dynamic Satellite Surveys (DSS) were contracted to do the surveying. DSS provided one Surveyor and Blue Energy supplied two Offsiders. The team worked well and should be proud of the quality of work they provided on this job.
- 5) Terrex Seismic's Party Manager (PM) for the Injune 2D was Terry Ernst. Terry did his usual good job. Terrex Seismic crew 404 performed well as a team and is recommended for future work.

Mark Kneipp

Blue Energy Representative



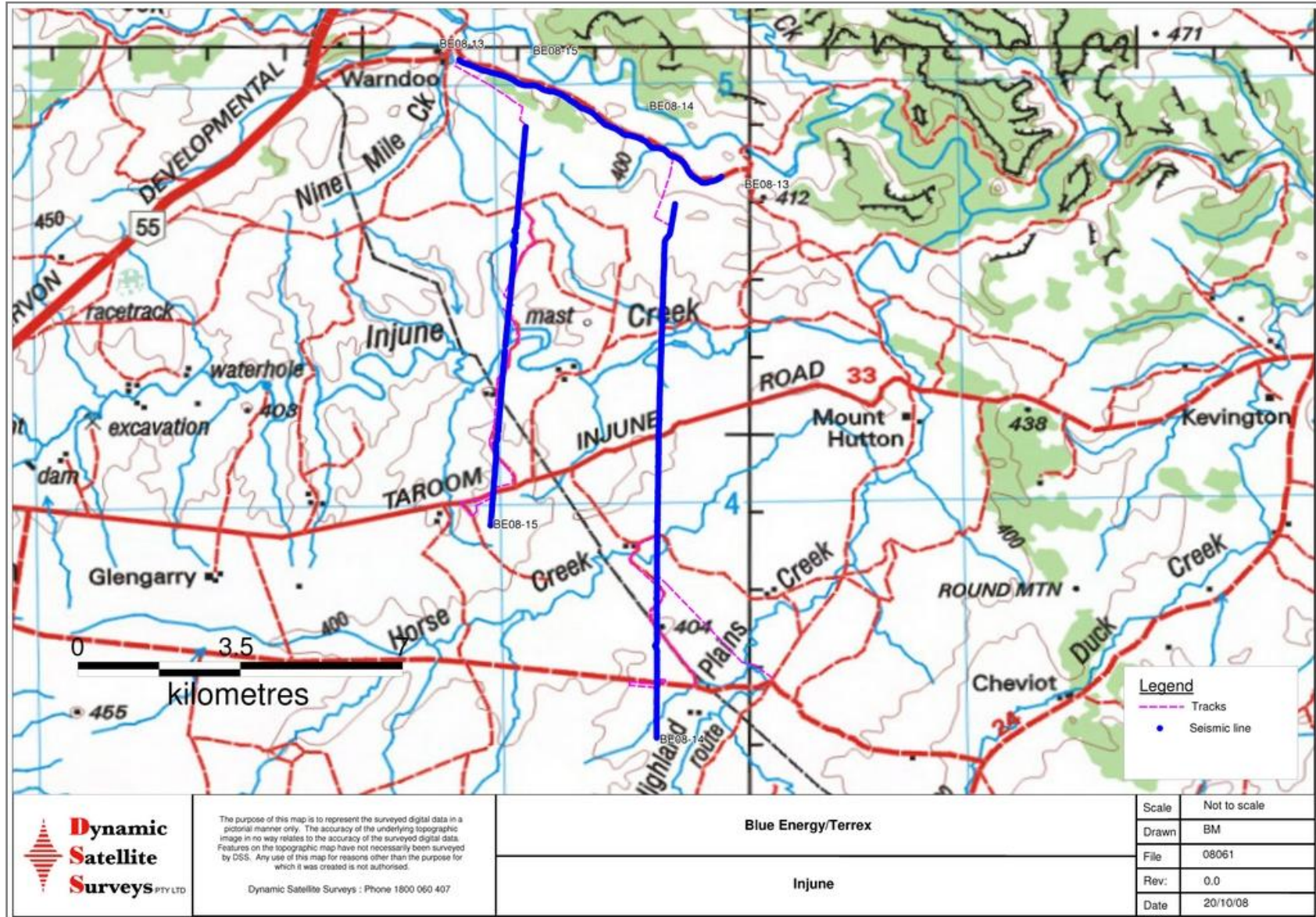
9.0 APPENDIX

Appendix 1: Prospect Locality Map





**Appendix 2: Injune Prospect Line Map**



**Appendix 3: Recording Production**

**RECORDING PRODUCTION by Terrex Seismic on 2008 Blue Energy Injune 2D Seismic Survey**

Note: This is an hourly rate contract

Date	Area	Line Details							Kms		Full Rate Charge Hours								Stby Hrs			Non Charge Hrs			Total Hours for Day		
		Line	First Stn	Last Stn	# Stns	# VPs	# Skips	Makeup VP's	Line Kms	Daily Total Km	Travel Hrs	Record	Detours	Rec Move	Line/Vibe Move	WOS	Layout, Pickup	Tests, QC & Other	Mobilisation	Standby Toolbox/Induct'	Standby/Client, weather	Washdowns	Downtime	Other Non Charge Hrs			
26-Oct	ATP85P										1.0					2.9	3.5		0.3		3.5		0.5				11.70
27-Oct	ATP85P	BE08-14	207	851	645	358	0	12.900	12.900	1.1	4.5	1.1	1.3	1.1	0.8	1.5		0.3				0.7				12.40	
28-Oct	ATP854P	BE08-13	533	200	334	334	0	6.680																		0.00	
28-Oct	ATP854P	BE08-15	679	201	479	241	0	9.580	16.260	0.8	4.8	1.0		1.3	1.9	1.3		0.3				0.9				12.30	
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																										0.00	
<b>Totals</b>					1458	933	0	29.160	29.160	2.9	9.3	2.1	1.3	2.4	0.0	5.6	2.8	3.5	0.9	0.0	3.5	1.6	0.5	0.0	0.0	0.0	36.4

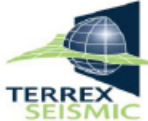
#### Appendix 4: Surveying Production

#### Dynamic Satellite Surveys (DSS) Production for the 2008 Blue Energy Injune 2D Seismic Survey


Date	Line	Stn # to	Stn #	Stn. Int(m)	Km	Tot Km/Day	Surveyor Days
16-Oct	Mobilize						1.00
17-Oct	BE08-14	208	379	20	3.42		
17-Oct	BE08-14	435	545	20	2.20	<b>5.62</b>	1.00
18-Oct	BE08-14	379	435	20	1.12		
18-Oct	BE08-14	545	851	20	6.12	<b>7.24</b>	1.00
19-Oct	BE08-13	200	533	20	6.66		
19-Oct	BE08-15	416	680	20	5.28	<b>11.94</b>	1.00
20-Oct	BE08-15	201	416	20	4.30	<b>4.30</b>	1.00
Cumulative Totals						29.10	5.00



## Appendix 5: Personnel List

 October 2008		Sunday	Monday	Tuesday	Days on Crew	
		26	27	28		
POSITION	NAMES					
Crew Manager	Ernst Terry	1	1	1	3	
HSE Advisor	Auckram Ray	1	1	1	3	
		<b>Actual Numbers</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>6</b>
<b>Admin Staff</b>		<b>Contract Numbers</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>6</b>
		<b>Additional Numbers</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Observer	Konta Tom	1	1	1	3	
Cable Repair	Bryan-Robinson Amy	1	1	1	3	
		<b>Actual Numbers</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>6</b>
<b>Technical</b>		<b>Contract Numbers</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>6</b>
		<b>Additional Numbers</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Vib Op	Harland June	1	1	1	3	
Vib Op	Bobrowski Shirley	1	1	1	3	
Vib Tech	Phillippson John	1	1	1	3	
		<b>Actual Numbers</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>9</b>
<b>Vibrator Crew</b>		<b>Contract Numbers</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>9</b>
		<b>Additional Numbers</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Line Boss	McLeod Hamish	1	1	1	3	
		<b>Actual Numbers</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>
<b>Snr Line</b>		<b>Contract Numbers</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>
		<b>Additional Numbers</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Line Crew	Alberts Livingstone	1	1	1	3	
Line Crew	Bann Megan	1	1	1	3	
Line Crew	Brooks Mark	1	1	1	3	
Line Crew	Cameron Jason	1	1	1	3	
Line Crew	Cooney Michael	1	1	1	3	
Line Crew	Cox Mark	1	1	1	3	
Line Crew	Gardner Mitchell	1	1	1	3	
Line Crew	Gemeiner Kym	1	1	1	3	
Line Crew	Gilmour Alex	1	1	1	3	
Line Crew	Ikink Nick	1	1	1	3	
Line Crew	Orrock Ricky	1	1	1	3	
Line Crew	Phillips Chris	1	1	1	3	
Line Crew	Place Brady	1	1	1	3	
Line Crew	Robinson Tim	1	1	1	3	
Line Crew	Simpson Kurt	1	1	1	3	
Line Crew	Smith Bill	1	1	1	3	
Line Crew	Wallerstein John	1	1	1	3	
		<b>Actual Numbers</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>51</b>
<b>Line Crew</b>		<b>Contract Numbers</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
		<b>Additional Numbers</b>				<b>0</b>
		<b>Total on Crew</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>75</b>

**Appendix 6: Equipment List**

 October 2008				Blue Energy Injune 2D			Sunday	Monday	Tuesday	Days on Crew
#	VEHICLE	USED FOR	REGISTRATION	Rego. Exp.	RENTAL	TERREX	26	27	28	
1	Land Cruiser 100 Series	Vibe Wagon	759 KZP	03-Dec-08		✓	1	1	1	3
2	Land Cruiser Tray Back	Geophone Truck	760 KZP	03-Dec-08		✓	1	1	1	3
3	Land Crusier Tray Back	Geophone Truck	761 KAP	03-Dec-08		✓	1	1	1	3
4	Land Cruiser 100 Series	HSE Wagon	762 KZP	03-Dec-08		✓	1	1	1	3
5	Land Cruiser 100 Series	Front Crew Wagon	763 KZP	03-Dec-08		✓	1	1	1	3
6	Land Cruiser Tray Back	Cable Truck	764 KZP	03-Dec-08		✓	1	1	1	3
7	Land Cruiser 100 Series	Back Crew Wagon	765 KZP	03-Dec-08		✓	1	1	1	3
8	Land Cruiser Tray Back	Line Boss Ute	766 KZP	03-Dec-08		✓	1	1	1	3
9	Land Cruiser Tray Back	Cable Truck	767 KZP	03-Dec-08		✓	1	1	1	3
10	Land Cruiser Tray Back	Party Manager Ute	768 KZP	03-Dec-08		✓	1	1	1	3
11	Land Cruiser Tray Back	Cable Truck	769 KZP	03-Dec-08		✓	1	1	1	3
<b>LIGHT VEHICLE LIST</b>							<b>11</b>	<b>11</b>	<b>11</b>	<b>33</b>
5	Volvo 8 wheel drive	Spread	1 CPZ 645	04-Sep-09		✓	1	1	1	3
6	Izusu 4 wd Truck	Recording	1 CAA 534	17-Jul-09		✓	1	1	1	3
7	Izusu 4 wd Truck	Vibe service truck	9DL 970	01-Mar-09		✓	1	1	1	3
9	Paystar	Vibrator	372 JCN	21-Mar-09		✓	1	1	1	3
10	Paystar	Vibrator	374 JCN	21-Mar-09		✓	1	1	1	3
11	Paystar	Vibrator	375 JCN	21-Mar-09		✓	1	1	1	3
12	Paystar	Vibrator	376 JCN	21-Mar-09		✓	1	1	1	3
13	4 x 4 Trailer	Road Signs	215 QPH	10-Jul-09		✓	1	1	1	3
<b>HEAVY VEHICLE LIST</b>							<b>8</b>	<b>8</b>	<b>8</b>	<b>24</b>