



# **BLUE ENERGY 2008 MORANBAH-GLENDEN 2D SEISMIC SURVEY**



## **OPERATIONS REPORT**

**AUGUST / SEPTEMBER 2008**

**BY**

**TERRY ERNST  
CREW # 404**

**TERREX SEISMIC  
UNIT # 2 / 37 HOWSON WAY  
BIBRA LAKE  
WESTERN AUSTRALIA 6163**

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## 1. INTRODUCTION

Terrex Seismic was contracted by Blue Energy to conduct the Moranbah-Glenden 2D Seismic Survey. Recording was completed in 8 days for a total of 45.21 linear km. Acquisition commenced on the 31<sup>st</sup> of August 2008 and was completed on the 07<sup>th</sup> September 2008.

### 1.1 GEOGRAPHICAL AREA

The Moranbah 2D prospect was located approximately 30km North-West of Moranbah and the Glenden 2D prospect was located approximately 20 km North of the township of Glenden, 180 km North-West of Moranbah in Qld. The topography of the area consists mainly of black soil farmland paddocks and sandy creek channels with rocky hills in between.



**Line Conditions on the Moranbah-Glenden 2D.**

## 1.2 WEATHER

The weather was predominately fine for the duration of the program with approx three hours of standby time due to rain on Thursday the 04<sup>th</sup> September. Temperatures were in the mid 26 degree range.

## 1.3 LOGISTICS

All equipment and vehicles were mobilised from the previous prospect by Terrex personnel on Saturday the 30<sup>th</sup> August 2008.

Certified vehicle wash downs were performed prior to mobilisation at Calliope in QLD.

Access to and from the field was via main bitumen roads, local dirt roads and farm access tracks, seismic lines were also used for access to and from the field and while in production.

All approved access roads, fences and local farm tracks were indicated on the maps supplied by Dynamic Satellite Surveys from Yeppoon, QLD.

Line clearing was required for the Blue Energy 2D seismic survey; this was all performed by Blue Energy sub-contractor personnel.

No Traffic Control was required for the 2D seismic survey; however, some signage was used and placed out along roads by the Terrex Seismic HSE representative to warn any third party vehicles that may be driving in the area.

The crew stayed at one location for the duration of the program, the Dyno Noble sub-contractors camp, 8.0 km west of the township of Moranbah in QLD.

Breakfast, lunch and dinners were all supplied by the camp where our people resided.

All supplies including freight was transported via AAE, Australia Post or Star track Express.

Fuel was supplied by both the BP and Shell Service Stations in Moranbah.

An induction / toolbox meeting was held by the Client Representative, Permit Man and Crew Manager before commencement of the Blue Energy Moranbah-Glenden 2D seismic survey.



Four vibrators were floated from the previous prospect at Calliope in QLD to Moranbah with only two vibrators used to complete the survey.

All other logistics were supported out of Terrex Seismic Perth and Brisbane Offices.

## 2. SURVEYING

### 2.1 RANGING / CHAINING / SURVEYING

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

### 2.2 LINE CLEARING

All line clearing was performed by Blue Energy sub-contractor personnel.

### 2.3 PERMITTING

All permitting was carried out by Blue Energy.

David Ayling was the Permit Man and Mark Kneipp was the client representative. Both were on site during the survey.



**Recorder setup on line.**

### 3. RECORDING / PROCESSING

#### GENERAL SURVEY DETAILS:

Survey: 2008 Blue Energy – Moranbah-Glenden 2D Seismic Survey ATP814P

#### 3.1 RECORDING PARAMETERS:

Instruments:	Sercel 428XL
No. Channels:	240
Tape Drives:	IBM Ultrium LT02 (dual drive – 200 Gbyte per tape)
Tape Format:	SEGD Revision 1 8058IEEE Demultiplexed, Noise edited correlated
Filters:	Hi cut 200 Hz, (0.8 Nyquist - Linear)
Sample Rate:	2 ms
Record Length:	2 sec
RTC:	Yes
Correlation Type:	Zero Phase, After Sum
Stack:	Diversity stack plus burst edit

#### Source Data:

Vibrators:	2 x Hemi 44 6x6 Truck Mounted Vibrators
Electronics:	Pelton Advance 2, Model 5 Vibrator Control Electronics
Sweep Frequency:	Mono-sweep, 04-72 Hz
Sweep Length:	6 seconds
No. Sweeps:	1 standing
VP Interval:	15m
Vibrator Array:	1 vibe in line, centered on half station
Sweep Amplitude Taper:	100% (none)
Drive Level:	80% varied by amplitude control function
End Tapers (cosine):	0.2s
Phase Locking Type:	Ground Force
Amplitude Control:	Peak to Peak

#### Receivers:

Receiver Group Interval:	7.5m
Number of live traces:	120
Spread:	Symmetric Split, 1792.5 – 7.5 - 0 – 7.5 – 1792.5
Geophones:	Sensor SM4 10 Hz
Array:	6 over 7.5m, Centered on peg, 1.25m spacing between phones





**3.2 PROSPECT MAPS**

**Moranbah Prospect**

**Glenden Prospect**

### **3.3 RECORDING**

The Moranbah 2D prospect was located approximately 30km North-West of Moranbah and the Glenden 2D prospect was located approximately 20 km North of the township of Glenden, 180 km North-West of Moranbah in QLD. The surrounding areas consisted mainly of black soil farmland paddocks and sandy creek channels with rocky hills in between.

The program consisted of ten lines for a total of 45.21 linear km.

Production commenced on the 31<sup>st</sup> of August 2008 and was completed in 8 days, finishing production on the 07<sup>th</sup> of September 2008.

#### **MORANBAH 2D PROSPECT**

##### **BE08-10**

Recording commenced after vibrator testing & line QC had been completed. Production started on VP 100.5 on the 31<sup>st</sup> August and was completed that day on VP 750.5 for a total of 4.875 linear km. This line was recorded from low to high station numbers in a West to East direction.

##### **BE08-05**

Production started on VP 100.5 on the 31<sup>st</sup> August and was completed on the 02<sup>nd</sup> September at VP 1570.5 for a total of 11.025 linear km. This line was recorded from low to high station numbers in a South to North direction.

##### **BE08-06**

Production started on VP 320.5 on the 2<sup>nd</sup> September and was completed the same day on VP 100.5 for a total of 1.650 linear km. This line was recorded from high to low station numbers in an East to West direction.

##### **BE08-09**

Production started on VP 644.5 on the 03<sup>rd</sup> September and was completed that same day at station 100.5 for a total of 4.080 linear km. This line was recorded from high to low station numbers in an East to West direction.

## **GLENDEN 2D PROSPECT**

### **BE08-04**

All vehicles were washed down in Moranbah prior to the commencement of the Glenden 2D prospect. This was completed under instruction from the Client Representative on site.

Recording commenced after line QC had been completed.

Production started on VP 1010.5 on the 4<sup>th</sup> September and was completed the following day at station 100.5 for a total of 6.840 linear km. This line was recorded from high to low station numbers in a North to South direction.

### **BE08-01**

Production was started on VP 100.5 on the 5<sup>th</sup> September was completed that same day at station 740.5 for a total of 4.815 linear km. This line was recorded from low to high station numbers in a West to East direction.

### **BE08-02**

Production commenced at station 540.5 on the 6<sup>th</sup> September and was completed that same day at station 100.5 for a total of 3.300 linear km. This line was recorded from high to low station numbers in a North to South direction.

### **BE08-03**

Production commenced on this line on the 6<sup>th</sup> September at station 478.5 and was completed that same day on VP 260.5 for a total of 1.635 linear km. This line was recorded from high to low station numbers in a North to South direction.

### **BE08-01A**

Production was started on the 6<sup>th</sup> September at station 800.5 and was completed the following day at station 100.5 for a total of 5.250 linear km. This line was recorded from high to low station numbers in an East to West direction.

### **BE08-03A**

Production started on the 7<sup>th</sup> September at station 420.5 and was completed the same day on VP 190.5 for a total of 1.740 linear km. This line was recorded from high to low station numbers in a North to South direction.

The end of Line # 03A represented the completion of the Moranbah-Glenden 2D seismic survey contract. Production rates were good throughout the program with a best day of 7.965 km on the 05<sup>th</sup> September and an average of 5.650 km for the entire prospect.

### 3.4 PROCESSING

“A” & “B” tapes were sent to the following locations:

#### **A Tapes**

Fugro Seismic Imaging Pty Ltd  
69 Outram Street,  
West Perth  
WA, 6005

#### **B Tapes**

Blue Energy LTD  
Suite 15C Brunswick Central, 421  
Brunswick Street  
Fortitude Valley, Qld, 4006



## APPENDIX A

### EQUIPMENT SPECIFICATIONS

#### RECORDING EQUIPMENT (2D Surveys)

##### SERCEL 428 Seismic Data Acquisition System

- Three (3) 19inch Flat Screens with Sun Blade Computer
- VERITAS V12 Plotter, UPS, LIM, APM
- Two (2) LTO High Density Tape Drives
- One Hundred and Fifty (150) Seismic Cables with 4 x FDU's per cable  
Separated by 55 meters between takeouts (600 Ch)
- Twenty Five (25) Power Harness Leads
- Twenty Five (25) Line Batteries
- Three (3) Transverse Cable
- Two (2) LAUX's
- Two (2) Repeaters
- Fifteen (15) LAUL's
- Two (2) Battery Charging units
- **Pelton** Real Time VibPro Similarity System
- One (1) 10 meter 6 DB Boost High Gain Antenna on Recording Truck
  
- **Sensor SM4 10Hz High Specification Super phones**
- Six Hundred (600) Geophone strings with 6 ph/group  
(Equivalent of 300 Channels of 12 phones/group)

**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

- **Two (2) Hemi 44 6x6 Truck Mounted Vibrators:**  
Peak force is 44200lbs per Vibe and Hold-Down weight is 44600lbs per Vibe
- **Two (2) Pelton Advance 2 Model 5 Vibrator Control Electronics**
- One (1) Pelton Advance 2 Encoder Sweep Generator for Recorder
- One(1) operating Online and One (1) on Standby
- Electronics are capable of Trade Marked **Varisweep**

## APPENDIX B

### VEHICLE EQUIPMENT LIST

VEHICLE	REGISTRATION
Landcruiser – 100 series - Wagon	759 – KZP
Landcruiser – 100 series - Wagon	762 – KZP
Landcruiser – 100 series - Wagon	763 – KZP
Landcruiser – 100 series - Wagon	765 – KZP
Landcruiser – 79 series - Trayback	766 – KZP
Landcruiser – 79 series - Trayback	767 – KZP
Landcruiser – 79 series - Trayback	760 – KZP
Landcruiser – 79 series - Trayback	761 – KZP
Landcruiser – 79 series - Trayback	764 – KZP
Landcruiser – 79 series - Trayback	768 – KZP
Landcruiser – 79 series - Trayback	769 – KZP
Isuzu – 4x4 Service Truck	9DL – 970
Isuzu – 4x4 Recorder Truck	1CAA – 534
Volvo – Spread Truck	1CPZ – 645
Paystar – Hemi 44 – Vibrator	372 – JCN
Paystar – Hemi 44 – Vibrator	376– JCN



# **APPENDIX C**

## **TAPE LISTINGS**





## **APPENDIX D**

### **HSE POLICY and OCCUPATIONAL HEALTH and SAFETY STANDARDS**

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

# APPENDIX E

## END OF CONTRACT HSE REPORT





# Health Safety & Environment

## End of Contract Report

### Blue Energy Ltd\_Moranbah 2D

30th Aug - 7th Sept 2008

<b>Client</b>	Blue Energy Ltd	<b>HSE Advisor</b>	Ray Auckram
<b>Location</b>	ATP814P	<b>Combined Personnel</b>	24
<b>Camp Site</b>	Aurora Camp, Moranbah	<b>DoA Tests Conducted</b>	
<b>Sub-Contractors</b>	Dynamic Satellite Surveys	<b>BAC Tests Conducted</b>	31

**Summary:**

- 29/08/2008: Certified wash downs completed.
- 30/08/2008: Crew mobilise to Moranbah.  
Commence deployment of equipment.  
Experimentals completed.
- 04/09/2008: Vehicle wash downs completed (uncertified)  
Matthew Eaves Injured Thumb Incident see Meet&Report tab
- 05/09/2008: Lorraine Powell Food Poisoning Incident see Meet&Report tab
- 07/09/2008: Complete production and pick up off spread; EOC

Report compiled by: Ray Auckram HSE

**Safety Statistics**

Terrex Seismic Man-hours	2,544
Sub-Contractor Man-hours	240
Fatalities	0
LTI's	0
MTI's	0
Days since last MTI/LTI	0
First Aid Incidents	0
Incident / Accident Reports	2
Work Days Lost	0
Hazard Identification Reports	0
Training Hours	25
Tool Box / Safety Meeting Man-hours	55
Audits / Inspections	84
Drills	0
Land Spills (< 5 litres)	0

**Medical Statistics**

Clinic Attendance	
Referral	2
Eye infections, injuries	0
Heat	0
GIT: Diarrhoea, Nausea, Vomiting	0
Headaches	0
Bites and Stings	0
Wound	0
Muscular Skeletal: Soft tissue injury, Sprain/Strain	1
Skin Conditions: Rash, Fungal Infection	0
Colds, Influenza type symptoms	0
FAC	0
Wound Care: Lacerations, Dressings, Suture removal	1
<b>TOTAL</b>	<b>4</b>

## APPENDIX F

### PERSONNEL – CREW LIST

POSITION	NAMES
Crew Manager	Ernst Terry
Crew Manager	Hutchison Tony
HSE Advisor	Auckram Ray
<b>Admin Staff</b>	
Observer	Konta Tom
Junior Observer	Kingston Dean
Cable Repair	Bryan-Robinson Amy
<b>Technical</b>	
Vib Op	Harland June
Vib Op	Little Greg
Vib Op	Bobrowski Shirley
Vib Op	Ey John
<b>Vibrator Crew</b>	
Vib Tech	Philippson John
Vib Tech	Smith Rob
<b>Vib Tech</b>	
Line Boss	Rees Phillip
Line Boss	Bann Megan
<b>Snr Line</b>	
Trouble Shooter	McLeod Hamish
<b>Trouble Shooters</b>	
Line Crew	Alberts Livingstone
Line Crew	Brooks Mark
Line Crew	Brown Mark
Line Crew	Cameron Jason
Line Crew	Mark Cox
Line Crew	Eaves Matthew
Line Crew	Gemeiner Kym
Line Crew	Gilmour Alex
Line Crew	Ikink Nick
Line Crew	McLeod Hamish
Line Crew	McLeod Rowan
Line Crew	Martin Adam
Line Crew	Orrock Ricky
Line Crew	Place Brady
Line Crew	Powell Lorraine
Line Crew	Rick1tt Corey
Line Crew	Robinson Tim
Line Crew	Simpson Kurt
Line Crew	Smith Bill
Line Crew	Waldron Ryan
Line Crew	Wallerstein John
<b>Line Crew</b>	

## PERSONNEL – CREW NUMBERS

POSITION	NUMBERS
Crew Manager	2
HSE Advisor	1
Observer	2
Cable Repair	1
Vib Op	4
Vib Tech	2
Line Boss	2
Trouble Shooter	1
Line Crew	21

# APPENDIX G

## DAILY REPORTS



Terrex Seismic  
Daily Report

CREW 404

Client..... Blue Energy  
Survey Name. Moranbah 2D  
Area..... Moranbah-Glenden, ATP814P  
State..... Qld

Crew Manager.. Terry Ernst  
Client Rep..... Mark Kneipp  
Weather..... Fine / Warm  
DATE..... Friday, 29 August 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
			0.000						VP's...	0
									Skips...	0
									Kms...	0.000
									Cum.Kms...	0.000
									%Completed...	0.00%
									Cum.Total Vp's (Job)...	0
									Kms.Remaining...	48.4800
									Average Daily Production Kms	0.0000

HOURS		Down Time -		Cum.L/Spread Hrs...	0.0000	
Recording.....				Cum.P/Spread Hrs...	0.0000	
Recorder Move.....						
Line Move.....			Human Error.....			
Detours/Terrain.....			Troubleshooting.....			
Travel Time.....			Recorder.....			
Vibe Testing - Daily test/QC....			Vibes.....			
QC Spread....			W / on Spread.....	Total Day Hrs...	1.50	
Troubleshooting / Other....			Other.....	Day Charge Hrs...	1.50	
WOS....				Cum.Chargeable Hrs (Job)...	1.50	
L/Spread....			Toolbox/Induction.....	Standby Hrs...	0.00	
P/Spread....			Total Down Time.....	Cum.Standby Hrs (Job)...	0.00	
Prospect / Camp Move.....	1.5					
Washdowns / Weather / Other St/By....			Cum. Down Time (Job).....	0.0	Cum.Total Hrs (Job)....	1.50

Production:	Vp's:	0	K.M's:	0.0000	Personnel #	24
	Skips:	0			Terrex Field #	21
					Terrex Line #	16
					Terrex Light vehicles #	11
					Terrex Heavy vehicles #	7
					Hire vehicles #	0
					Traffic Control Persons #	0
					Traffic Control Vehicles #	0
Weather:	Fine / Warm		Temp:	2 to 22		

Spread Movement					
Client: Arrow Energy					
Layout			Pickup		
Line	Station #	Tot	Line	Station #	Tot
		1	08-BRS-01	2034	2334
				<b>Cable trucks only</b>	
<b>Total Stations:</b>		1	<b>Total Stations:</b>		301
Bad Cables		0	Bad Phones		0

**Comments:**

\*Crew mobilised from Collapie to Rockhampton, overnight @ Rockhampton.  
\*110 km, 1.5 Hrs move.  
Refuel vehicles, get rooms etc for crew.

\*Third (3rd) Cable truck not being used today.  
\*1 x Hire Sat phone, returned today.

Downtime:  
Recorder:  
T/Shooting:  
Vibrators:  
Other:

Crew Manager: Terry Ernst.....

Client Rep: Mark Kneipp.....

Terrex Seismic  
Daily Report

CREW 404

Client..... Blue Energy  
Survey Name. Moranbah 2D  
Area..... Moranbah-Glenden, ATP814P  
State..... Qld

Crew Manager.. Terry Ernst  
Client Rep..... Mark Kneipp  
Weather..... Fine / Hot  
DATE..... Saturday, 30 August 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
BE08-10	100.5	100.5	0.000	0	TESTING	1	4		VP's...	0
									Skips...	0
									Kms...	0.000
									Cum.Kms...	0.000
									%Completed...	0.00%
									Cum.Total Vp's (Job)...	0
									Kms.Remaining...	48.4800
									Average Daily Production Kms	0.0000

HOURS		Down Time -		Cum.L/Spread Hrs...	1.8000
Recording.....				Cum.P/Spread Hrs...	0.0000
Recorder Move.....					
Line Move.....			Human Error.....		
Detours/Terrain.....			Troubleshooting.....		
Travel Time..... 1.6			Recorder.....		
Vibe Testing - Daily test/QC.... 0.6			Vibes.....		
QC Spread....			W / on Spread.....	Total Day Hrs...	12.00
Troubleshooting / Other....			Other..... 2.0	Day Charge Hrs...	10.00
WOS....				Cum.Chargeable Hrs (Job)...	11.50
L/Spread.... 1.8			Toolbox/Induction.....	Standby Hrs...	0.00
P/Spread....			Total Down Time..... 2.0	Cum.Standby Hrs (Job)...	0.00
Prospect / Camp Move..... 6.0					
Washdowns / Weather / Other St/By....			Cum. Down Time (Job)..... 2.0	Cum.Total Hrs (Job)....	13.50

Production:				Spread Movement			
Vp's: 0	K.M's: 0.0000	Personnel # 23	Terrex Field # 21	Client: Blue Energy			
Skips: 0		Terrex Line # 16	Terrex Light vehicles # 11	Layout		Pickup	
		Terrex Heavy vehicles # 7	Hire vehicles # 0	Line	Station #	Tot	Tot
		Traffic Control Persons # 0	Traffic Control Vehicles # 0				
Weather: Fine / Hot	Temp: 4 to 28						

Comments:	Line	Station #	Tot	Line	Station #	Tot
*Crew completed mobilise from Rockhampton to Moranbah = 6.0 Hrs, 400 km.	BE08-10	100	320			1
*Refuel vehicles, get rooms etc for crew.						
*Drive back to Shell service station from Camp, start loading equipment from Spread Truck.						
*Travel to field & return = 1.6 Hrs.						
*Layout spread for Testing (120 channels only)						
*Complete testing.						
*Third (3rd) Cable truck not being used today, not enough persons on crew.						
	<b>Total Stations:</b>		221	<b>Total Stations:</b>		1
	Bad Cables		0	Bad Phones		0
Downtime:						
Recorder:						
T/Shooting:						
Vibrators:						
Other: 2.0 Refuelling vehicles upon arrival, get people / rooms sorted						

Crew Manager: Terry Ernst.....

Client Rep: Mark Kneipp.....



Terrex Seismic  
Daily Report

CREW 404

**Client.....** Blue Energy  
**Survey Name.** Moranbah 2D  
**Area.....** Moranbah-Glenden, ATP814P  
**State.....** Qld

**Crew Manager..** Terry Ernst  
**Client Rep.....** Mark Kneipp  
**Weather.....** Fine / Hot  
**DATE.....** Sunday, 31 August 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
									VP's...	450
BE08-10	100.5	750.5	4.875	24	325	5	342	24	Skips...	24
BE08-05	100.5	350.5	1.875	0	125	1	126	0	Kms...	6.750
									Cum.Kms...	6.750
									%Completed...	13.92%
									Cum.Total Vp's (Job)...	450
									Kms.Remaining...	41.7300
									<b>Average Daily Production Kms</b>	<b>6.7500</b>

HOURS		Down Time -		Totals	
Recording.....	5.0	Cum.L/Spread Hrs...	1.8000	Cum.P/Spread Hrs...	0.0000
Recorder Move.....	1.5				
Line Move.....	0.4	Human Error.....			
Detours/Terrain.....	0.1	Troubleshooting.....			
Travel Time.....	2.0	Recorder.....			
Vibe Testing - Daily test/QC....	0.4	Vibes.....	0.7	Total Day Hrs...	12.70
QC Spread....		W / on Spread.....	1.3	Day Charge Hrs...	10.00
Troubleshooting / Other....		Other.....		Cum.Chargeable Hrs (Job)...	21.50
WOS....	0.6	Toolbox/Induction.....	0.3	Standby Hrs...	0.70
L/Spread....		Total Down Time.....	2.0	Cum.Standby Hrs (Job)...	0.70
P/Spread....					
Prospect / Camp Move.....					
Washdowns / Weather / Other St/By....	0.4	Cum. Down Time (Job).....	4.0	Cum.Total Hrs (Job)....	26.20

<b>Production:</b>	Vp's: 450	K.M's: 6.7500	Personnel # 23
	Skips: 24		Terrex Field # 21
			Terrex Line # 16
			Terrex Light vehicles # 11
			Terrex Heavy vehicles # 7
			Hire vehicles # 0
			Traffic Control Persons # 0
			Traffic Control Vehicles # 0
<b>Weather:</b> Fine / Hot	<b>Temp:</b> 4 to 28		

Spread Movement								
Client: Blue Energy								
Layout				Pickup				
Line	Station #	Tot		Line	Station #	Tot		
BE08-10	321	750	430	BE08-10	100	750	651	
BE08-05	100	524	425					
<b>Total Stations:</b>			855	<b>Total Stations:</b>			651	
Bad Cables			0	Bad Phones			5	

**Comments:**

- \*Morning Toolbox meeting @Shell service station, no meetings aloud at Dyno-Mobil camp
- \*Travel to field & return = 2.0 Hrs.
- \*Complete H/Wire & Sims tests.
- \*Start Production, Line # 10 completed, Line # 05 started.
- \*Standby = 0.4 Hrs, for trains.
- \*PM, Client Rep & HSE checking Line # 05 (Hills) remarking H/Carry sections.
- \*Two (2) Vibes being used, 1 for prouction while other on detour to next VP.
- \*Third (3rd) Cable truck not being used today, not enough persons on crew.

**Downtime:**

**Recorder:**

**T/Shooting:**

**Vibrators:** 0.7 Refuelling etc before starting

**WOS:** 1.3 Waiting on spread.

Crew Manager: Terry Ernst.....

Client Rep: Mark Kneipp.....

Terrex Seismic  
Daily Report

CREW 404

**Client.....** Blue Energy  
**Survey Name.** Moranbah 2D  
**Area.....** Moranbah-Glenden, ATP814P  
**State.....** Qld

**Crew Manager..** Terry Ernst  
**Client Rep.....** Mark Kneipp  
**Weather.....** Fine / Hot  
**DATE.....** Monday, 1 September 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
BE08-05	350.5	1102.5	5.640	45	332	127	512	45	VP's...	332
									Skips...	45
									Kms...	5.640
									Cum.Kms...	12.390
									%Completed...	25.56%
									Cum.Total Vp's (Job)...	782
									Kms.Remaining...	36.0900
									<b>Average Daily Production Kms</b>	<b>6.1950</b>

HOURS		Down Time -		Totals	
Recording.....	3.9	Cum.L/Spread Hrs...	1.8000	Cum.P/Spread Hrs...	0.0000
Recorder Move.....	1.6				
Line Move.....		Human Error.....			
Detours/Terrain.....	0.7	Troubleshooting.....			
Travel Time.....	2.4	Recorder.....			
Vibe Testing - Daily test/QC....		Vibes.....	0.2	Total Day Hrs...	12.60
QC Spread....		W / on Spread.....		Day Charge Hrs...	12.10
Troubleshooting / Other....	1.2	Other.....		Cum.Chargeable Hrs (Job)...	33.60
WOS....	2.3	Toolbox/Induction.....	0.3	Standby Hrs...	0.30
L/Spread....		Total Down Time.....	0.2	Cum.Standby Hrs (Job)...	1.00
P/Spread....					
Prospect / Camp Move.....		Cum. Down Time (Job).....	4.2	Cum.Total Hrs (Job)....	38.80
Washdowns / Weather / Other St/By....					

<b>Production:</b>	Vp's: 332	K.M's: 5.6400	Personnel # 23
	Skips: 45	Terrex Field # 20	
		Terrex Line # 16	
		Terrex Light vehicles # 11	
		Terrex Heavy vehicles # 7	
		Hire vehicles # 0	
		Traffic Control Persons # 0	
		Traffic Control Vehicles # 0	
<b>Weather:</b> Fine / Hot	<b>Temp:</b> 7 to 28		

Spread Movement								
Client: Blue Energy								
Layout				Pickup				
Line	Station #	Tot		Line	Station #	Tot		
BE08-05	525	1347	823	BE08-05	100	840	741	
<b>Total Stations:</b>			823	<b>Total Stations:</b>			741	
Bad Cables			2	Bad Phones			12	

**Comments:**

- \*Morning Toolbox meeting @Shell service station, no meetings aloud at Dyno-Mobil camp
- \*Travel to field & return = 2.4 Hrs.
- \*Continue Production, Line # 05.
- \*Cattle damage in morning.
- \*HSE helping line crew with handcarry areas.
- \*Two (2) Vibes being used, 1 for prouction while other on detour to next VP.
- \*WOS due to handcarry areas.
- \*Third (3rd) Cable truck not being used today, not enough persons on crew.

**Downtime:**

**Recorder:**

**T/Shooting:**

**Vibrators:** 0.2 Pelton Error

**WOS:**

Crew Manager: Terry Ernst.....

Client Rep: Mark Kneipp.....

Terrex Seismic  
Daily Report

CREW 404

Client..... Blue Energy  
 Survey Name. Moranbah 2D  
 Area..... Moranbah-Glenden, ATP814P  
 State..... Qld

Crew Manager.. Terry Ernst  
 Client Rep..... Mark Kneipp  
 Weather..... Fine / Hot  
 DATE..... Tuesday, 2 September 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
BE08-05	1102.5	1570	3.510	7	227	513	746	7	VP's...	338
BE08-06	320.5	100.5	1.650	0	111	1	111	0	Skips...	7
									Kms...	5.160
									Cum.Kms...	17.550
									%Completed...	36.20%
									Cum.Total Vp's (Job)...	1120
									Kms.Remaining...	30.9300
									Average Daily Production Kms	5.8500

HOURS		Recording.....	2.6	Down Time -	Cum.L/Spread Hrs...	1.8000
	Recorder Move.....	1.5			Cum.P/Spread Hrs...	0.0000
	Line Move.....	3.6		Human Error.....		
	Detours/Terrain.....	0.2		Troubleshooting.....		
	Travel Time.....	2.4		Recorder.....		
	Vibe Testing - Daily test/QC....			Vibes.....	0.4	
	QC Spread....	0.2		W / on Spread.....		Total Day Hrs... 12.60
	Troubleshooting / Other....			Other.....		Day Charge Hrs... 11.90
	WOS....	1.4		Toolbox/Induction.....	0.3	Cum.Chargeable Hrs (Job)... 45.50
	L/Spread....			Total Down Time.....	0.4	Standby Hrs... 0.30
	P/Spread....					Cum.Standby Hrs (Job)... 1.30
	Prospect / Camp Move.....					
	Washdowns / Weather / Other St/By....			Cum. Down Time (Job).....	4.6	Cum.Total Hrs (Job).... 51.40

<b>Production:</b>	Vp's:	338	K.M's:	5.1600	Personnel #	22
	Skips:	7			Terrex Field #	19
					Terrex Line #	15
					Terrex Light vehicles #	11
					Terrex Heavy vehicles #	7
					Hire vehicles #	0
					Traffic Control Persons #	0
					Traffic Control Vehicles #	0
<b>Weather:</b>	Fine / Hot		<b>Temp:</b>	8 to 29		

Spread Movement									
Client: Blue Energy									
Layout				Pickup					
Line	Station #	Tot		Line	Station #	Tot			
BE08-05	1348	1570	223	BE08-05	841	1460	620		
BE08-06	320	100	221						
BE08-09	644	500	145						
<b>Total Stations:</b>			589	<b>Total Stations:</b>			620		
Bad Cables				0	Bad Phones				7

**Comments:**

- \*Morning Toolbox meeting @Shell service station, no meetings aloud at Dyno-Mobil camp
- \*Travel to field & return = 2.4 Hrs.
- \*Continue Production, Finish Line # 05 & Line # 06.
- \*Cattle damage in morning.
- \*WOS - Handcarry sections, Long line change.
- \*Two (2) Vibes online being used, 1 for production while other on detour to next VP.
- \*1 x Line Crew person off with eye problem - non work related.
- \*Third (3rd) Cable truck not being used today, not enough persons on crew.

Downtime:  
 Recorder:  
 T/Shooting:  
 Vibrators: 0.4 Warming up  
 WOS:

Terrex Seismic  
Daily Report

CREW 404

Client..... Blue Energy  
Survey Name. Moranbah 2D  
Area..... Moranbah-Glenden, ATP814P  
State..... Qld

Crew Manager.. Terry Ernst  
Client Rep..... Mark Kneipp  
Weather..... Fine / Hot  
DATE..... Wednesday, 3 September 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
BE08-09	644.5	100.5	4.080	5	267	1	273	5	VP's...	267
									Skips...	5
									Kms...	4.080
									Cum.Kms...	21.630
									%Completed...	44.62%
									Cum.Total Vp's (Job)...	1387
									Kms.Remaining...	26.8500
									Average Daily Production Kms	5.4075

HOURS		Down Time -		TOTALS	
Recording.....	2.2			Cum.L/Spread Hrs...	1.8000
Recorder Move.....	0.5			Cum.P/Spread Hrs...	2.0000
Line Move.....		Human Error.....			
Detours/Terrain.....	0.1	Troubleshooting.....			
Travel Time.....	1.7	Recorder.....			
Vibe Testing - Daily test/QC....		Vibes.....	0.1		
QC Spread....	0.5	W / on Spread.....		Total Day Hrs...	12.50
Troubleshooting / Other....		Other.....		Day Charge Hrs...	11.00
WOS....	0.7			Cum.Chargeable Hrs (Job)...	56.50
L/Spread....		Toolbox/Induction.....	0.3	Standby Hrs...	1.40
P/Spread....	2.0	Total Down Time.....	0.1	Cum.Standby Hrs (Job)...	2.70
Prospect / Camp Move.....	3.3				
Washdowns / Weather / Other St/By.....	1.1	Cum. Down Time (Job).....	4.7	Cum.Total Hrs (Job)....	63.90

<b>Production:</b>	Vp's: 267	K.M's: 4.0800	Personnel #	22
	Skips: 5		Terrex Field #	19
			Terrex Line #	15
			Terrex Light vehicles #	11
			Terrex Heavy vehicles #	7
			Hire vehicles #	0
			Traffic Control Persons #	0
			Traffic Control Vehicles #	0
<b>Weather:</b>	Fine / Hot	<b>Temp:</b>	7 to 28	

Spread Movement							
Client: Blue Energy							
Layout			Pickup				
Line	Station #	Tot	Line	Station #	Tot		
BE08-09	499	100	400	BE08-05	1461	1570	110
				BE08-06	320	100	221
				BE08-09	644	100	545
<b>Total Stations:</b>			400	<b>Total Stations:</b>			876
Bad Cables			0	Bad Phones			0

**Comments:**

- \*Morning Toolbox meeting @Shell service station, no meetings aloud at Dyno-Mobil camp
- \*Travel to field & return = 1.7 Hrs.
- \*Complete Production, Finish Line # 09 @ Moranbah
- \*Prospect move to Glenden = 3.3 Hrs, moving Vibes & Recorder.
- \*WOS = 0.7 Hrs.
- \*Two (2) Vibes online being used, 1 for production while other on detour to next VP.
- \*1 x Line Crew person off with eye problem - non work related.
- \*7 x Line Crew persons staying @ Glenden.
- \*Third (3rd) Cable truck not being used today, not enough persons on crew.

Downtime:  
Recorder:  
T/Shooting:  
Vibrators: 0.1  
WOS:

Terrex Seismic  
Daily Report

CREW 404

**Client.....** Blue Energy  
**Survey Name.** Moranbah 2D  
**Area.....** Moranbah-Glenden, ATP814P  
**State.....** Qld

**Crew Manager..** Terry Ernst  
**Client Rep.....** Mark Kneipp  
**Weather.....** Overcast / Rain  
**DATE.....** Thursday, 4 September 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
BE08-04	1010.5	520.5	3.690	7	239	1	247	7	VP's...	239
									Skips...	7
									Kms...	3.690
									Cum.Kms...	25.320
									%Completed...	52.23%
									Cum.Total Vp's (Job)...	1626
									Kms.Remaining...	23.1600
									<b>Average Daily Production Kms</b>	<b>5.0640</b>

HOURS		Down Time -		Cum.L/Spread Hrs...	
Recording.....	2.3				2.8000
Recorder Move.....	0.5				2.0000
Line Move.....		Human Error.....			
Detours/Terrain.....	0.8	Troubleshooting.....			
Travel Time.....	3.5	Recorder.....			
Vibe Testing - Daily test/QC....		Vibes.....			
QC Spread....	0.4	W / on Spread.....		Total Day Hrs...	12.70
Troubleshooting / Other....		Other.....		Day Charge Hrs...	9.30
WOS....	0.8			Cum.Chargeable Hrs (Job)...	65.80
L/Spread....	1.0	Toolbox/Induction.....	0.3	Standby Hrs...	3.40
P/Spread....		Total Down Time.....	0.0	Cum.Standby Hrs (Job)...	6.10
Prospect / Camp Move.....				Cum.Total Hrs (Job)....	76.60
Washdowns / Weather / Other St/By.....	3.1	Cum. Down Time (Job).....	4.7		

<b>Production:</b>	Vp's: 239	K.M's: 3.6900	Personnel # 23
	Skips: 7		Terrex Field # 20
			Terrex Line # 16
			Terrex Light vehicles # 11
			Terrex Heavy vehicles # 7
			Hire vehicles # 0
			Traffic Control Persons # 0
			Traffic Control Vehicles # 0
<b>Weather:</b> Overcast / Rain	<b>Temp:</b> 7 to 28		

Spread Movement							
Client: Blue Energy							
Layout				Pickup			
Line	Station #	Tot		Line	Station #	Tot	
BE08-04	1010	100	911	BE08-04	1010	650	361
<b>Total Stations:</b>			911	<b>Total Stations:</b>			361
Bad Cables			0	Bad Phones			1

**Comments:**

- \*Morning Toolbox meeting @Caltex service station in Glenden.
- \*Travel to field & return = 3.5 Hrs. 200km one way.
- \*Other = 0.8 Hrs, vibe walking in to SOL, wet slippery road.
- \*Start Production, Line # 04 @ Glenden
- \*WOS = 0.8 Hrs.
- \*Two (2) Vibes online being used, 1 for production while other on detour to next VP.
- \*1 x Line Crew person back to work.
- \*7 x Line Crew persons staying @ Glenden.
- \*St/By in morning due to rain.
- \*Third (3rd) Cable truck not being used today, not enough persons on crew.

**Downtime:**

**Recorder:**

**T/Shooting:**

**Vibrators:**

**WOS:**

Crew Manager: Terry Ernst..... Client Rep: Mark Kneipp.....

Terrex Seismic  
Daily Report

CREW 404

**Client.....** Blue Energy  
**Survey Name.** Moranbah 2D  
**Area.....** Moranbah-Glenden, ATP814P  
**State.....** Qld

**Crew Manager..** Terry Ernst  
**Client Rep.....** Mark Kneipp  
**Weather.....** Overcast / Fine  
**DATE.....** Friday, 5 September 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
BE08-04	520.5	100.5	3.150	0	210	248	458	0	VP's...	529
BE08-01	100.5	740.5	4.815	2	319	1	322	2	Skips...	2
									Kms...	7.965
									Cum.Kms...	33.285
									%Completed...	68.66%
									Cum.Total Vp's (Job)...	2155
									Kms.Remaining...	15.1950
									Average Daily Production Kms	5.5475

HOURS		Recording.....	3.6	Down Time -	Cum.L/Spread Hrs...	2.8000
	Recorder Move.....	1.1			Cum.P/Spread Hrs...	2.0000
	Line Move.....	2.1		Human Error.....		
	Detours/Terrain.....	0.1		Troubleshooting.....	0.2	
	Travel Time.....	3.6		Recorder.....		
	Vibe Testing - Daily test/QC....	0.7		Vibes.....		
	QC Spread....			W / on Spread.....		Total Day Hrs... 12.70
	Troubleshooting / Other....			Other.....		Day Charge Hrs... 12.20
	WOS....	1.0		Toolbox/Induction.....	0.3	Cum.Chargeable Hrs (Job)... 78.00
	L/Spread....			Total Down Time.....	0.2	Standby Hrs... 0.30
	P/Spread....					Cum.Standby Hrs (Job)... 6.40
	Prospect / Camp Move.....					
	Washdowns / Weather / Other St/By....			Cum. Down Time (Job).....	4.9	Cum.Total Hrs (Job).... 89.30

<b>Production:</b>	Vp's: 529	K.M's: 7.9650	Personnel # 23
	Skips: 2		Terrex Field # 18
			Terrex Line # 14
			Terrex Light vehicles # 11
			Terrex Heavy vehicles # 7
			Hire vehicles # 0
			Traffic Control Persons # 0
			Traffic Control Vehicles # 0
<b>Weather:</b> Overcast / Fine	<b>Temp:</b> 8 to 30		

Spread Movement							
Client: Blue Energy							
Layout			Pickup				
Line	Station #	Tot	Line	Station #	Tot		
BE08-01	100	740	641	BE08-04	649	100	550
				BE08-01	100	740	641
<b>Total Stations:</b> 641			<b>Total Stations:</b> 1191				
Bad Cables 0			Bad Phones 1				

**Comments:**

- \*Morning Toolbox meeting @Caltex service station in Glenden.
- \*Travel to field & return = 3.6 Hrs. 200km one way.
- \*Continue Production, Finish Line # 04, Start & Finish Line # 01 @ Glenden
- \*WOS = 1.0 Hrs.
- \* 2 x Persons arrived in Mackay, PM picked up.
- \*Two (2) Vibes online being used, 1 for production while other on detour to next VP.
- \* 2 x Line Crew person off work, sick.
- \* 7 x Line Crew persons staying @ Glenden.
- \*Crew picking up stations and relaying in morning due to heavy cattle.
- \*Third (3rd) Cable truck not being used today, not enough persons on crew.

Downtime:  
**Recorder:**  
**T/Shooting:** 0.2  
**Vibrators:**  
**WOS:**

Crew Manager: Terry Ernst..... Client Rep: Mark Kneipp.....

Terrex Seismic  
Daily Report

CREW 404

**Client.....** Blue Energy  
**Survey Name.** Moranbah 2D  
**Area.....** Moranbah-Glenden, ATP814P  
**State.....** Qld

**Crew Manager..** Terry Ernst  
**Client Rep.....** Mark Kneipp  
**Weather.....** Fine / Hot  
**DATE.....** Saturday, 6 September 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
									VP's...	386
									Skips...	0
									Kms...	5.745
									Cum.Kms...	39.030
BE08-02	540.5	100.5	3.300	0	221	1	221	0		
BE08-03	478.5	260.5	1.635	0	110	1	110	0		
BE08-01A	800.5	692.5	0.810	0	55	1	55	0		
									%Completed...	86.27%
									Cum.Total Vp's (Job)...	2541
									Kms.Remaining...	6.2100
									Average Daily Production Kms	5.5757

HOURS		Recording.....	3.8	Down Time -	Cum.L/Spread Hrs...	2.8000
		Recorder Move.....	1.8		Cum.P/Spread Hrs...	2.0000
		Line Move.....	1.1	Human Error.....		
		Detours/Terrain.....		Troubleshooting.....		
		Travel Time.....	4.1	Recorder.....		
		Vibe Testing - Daily test/QC....		Vibes.....		
		QC Spread....		W / on Spread.....		Total Day Hrs... 12.80
		Troubleshooting / Other....		Other.....		Day Charge Hrs... 12.50
		WOS....	1.7			Cum.Chargeable Hrs (Job)... 90.50
		L/Spread....		Toolbox/Induction.....	0.3	Standby Hrs... 0.30
		P/Spread....		Total Down Time.....	0.0	Cum.Standby Hrs (Job)... 6.70
		Prospect / Camp Move.....				
		Washdowns / Weather / Other St/By....		Cum. Down Time (Job).....	4.9	Cum.Total Hrs (Job).... 102.10

<b>Production:</b>	Vp's: 386	K.M's: 5.7450	Personnel # 25
	Skips: 0		Terrex Field # 22
			Terrex Line # 16
			Terrex Light vehicles # 11
			Terrex Heavy vehicles # 7
			Hire vehicles # 0
			Traffic Control Persons # 0
			Traffic Control Vehicles # 0
<b>Weather:</b> Fine / Hot	<b>Temp:</b> 6 to 28		

Spread Movement							
Client: Blue Energy							
Layout			Pickup				
Line	Station #	Tot	Line	Station #	Tot		
BE08-02	740	100	641	BE08-02	740	100	641
BE08-03	478	260	219	BE08-03	478	260	219
Be08-01A	800	500	301				
<b>Total Stations:</b>		1161		<b>Total Stations:</b>		860	
Bad Cables		0		Bad Phones		1	

**Comments:**

- \*Morning Toolbox meeting @Caltex service station in Glenden.
- \*Travel to field & return = 4.1 Hrs. Travel becoming longer due to limited access.
- \*Continue Production, Finish Lines # 02 & 03, Start Line # 01A @ Glenden
- \*WOS = 1.5 Hrs - Limited access
- \*Two (2) Vibes online being used, 1 for production while other on detour to next VP.
- \*7 x Line Crew persons staying @ Glenden.
- \*Crew picking up stations and relaying in morning due to heavy cattle.
- \*3 x Line Moves for the day.
- \*Third (3rd) Cable truck being used today.

**Downtime:**

**Recorder:**

**T/Shooting:**

**Vibrators:**

**WOS:**

Crew Manager: Terry Ernst..... Client Rep: Mark Kneipp.....

Terrex Seismic  
Daily Report

CREW 404

**Client**..... Blue Energy  
**Survey Name**..... Moranbah 2D  
**Area**..... Moranbah-Glenden, ATP814P  
**State**..... Qld

**Crew Manager**.. Terry Ernst  
**Client Rep**..... Mark Kneipp  
**Weather**..... Fine / Hot  
**DATE**..... Sunday, 7 September 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
BE08-01A	692.5	100.5	4.440	0	296	56	351	0	VP's...	412
BE08-03A	420.5	190.5	1.740	0	116	1	116	0	Skips...	0
									Kms...	6.180
									Cum.Kms...	45.210
									%Completed...	100.00%
									Cum.Total Vp's (Job)...	2953
									Kms.Remaining...	0.0000
									Average Daily Production Kms	5.6513

HOURS		Recording.....	3.1	Down Time -	Cum.L/Spread Hrs...	2.8000
	Recorder Move.....	0.7			Cum.P/Spread Hrs...	3.6000
	Line Move.....	1.3		Human Error.....		
	Detours/Terrain.....			Troubleshooting.....		
	Travel Time.....	4.2		Recorder.....		
	Vibe Testing - Daily test/QC....			Vibes.....		
	QC Spread....	0.3		W / on Spread.....	Total Day Hrs...	12.70
	Troubleshooting / Other....			Other.....	Day Charge Hrs...	12.40
	WOS....	1.2		Toolbox/Induction.....	Cum.Chargeable Hrs (Job)...	102.90
	L/Spread....			Total Down Time.....	Standby Hrs...	0.30
	P/Spread....	1.6			Cum.Standby Hrs (Job)...	7.00
	Prospect / Camp Move.....					
	Washdowns / Weather / Other St/By.....			Cum. Down Time (Job).....	Cum.Total Hrs (Job)....	114.80

<b>Production:</b>	Vp's: 412	K.M's: 6.1800	Personnel # 25
	Skips: 0		Terrex Field # 22
			Terrex Line # 16
			Terrex Light vehicles # 11
			Terrex Heavy vehicles # 7
			Hire vehicles # 0
			Traffic Control Persons # 0
			Traffic Control Vehicles # 0
<b>Weather:</b> Fine / Hot	<b>Temp:</b> 5 to 27		

Spread Movement							
Client: Blue Energy							
Layout				Pickup			
Line	Station #	Tot		Line	Station #	Tot	
BE08-01A	499	100	400	BE08-01A	800	100	701
BE08-03A	420	190	231	BE08-03A	420	190	231
<b>Total Stations:</b>			631	<b>Total Stations:</b>			932
Bad Cables			0	Bad Phones			2

**Comments:**

- \*Morning Toolbox meeting @Caltex in Glenden.
- \*Travel to field & return = 4.2 Hrs.
- \*Completed Production, Finish Lines # 01A & 03A, Blue Energy Completed.
- \*WOS = 1.2 Hrs - Limited access
- \*Two (2) Vibes online being used, 1 for production while other on detour to next VP.
- \*All persons now staying @ Moranbah.
- \*Crew picking up stations and relaying in morning due to heavy cattle.
- \*1 x Line Move for the day.
- \*Third (3rd) Cable truck being used today.

**Downtime:**

**Recorder:**

**T/Shooting:**

**Vibrators:**

**WOS:**

Crew Manager: Terry Ernst.....

Client Rep: Mark Kneipp.....



Terrex Seismic  
Daily Report

CREW 404

Client..... Blue Energy  
Survey Name. Moranbah 2D  
Area..... Moranbah-Glenden, ATP814P  
State..... Qld

Crew Manager.. Terry Ernst  
Client Rep..... Mark Kneipp  
Weather..... Fine / Hot  
DATE..... Monday, 8 September 2008

Line	Station	Station	Kms.	Skips	Vp's	File	File	Makeups	TOTALS	
			0.000						VP's...	0
									Skips...	0
									Kms...	0.000
									Cum.Kms...	45.210
									%Completed...	100.00%
									Cum.Total Vp's (Job)...	2953
									Kms.Remaining...	0.0000
									Average Daily Production Kms	5.6513

HOURS		Down Time -		Cum.L/Spread Hrs...	2.8000	
Recording.....				Cum.P/Spread Hrs...	3.6000	
Recorder Move.....						
Line Move.....			Human Error.....			
Detours/Terrain.....			Troubleshooting.....			
Travel Time.....			Recorder.....			
Vibe Testing - Daily test/QC....			Vibes.....			
QC Spread....			W / on Spread.....	Total Day Hrs...	3.60	
Troubleshooting / Other....			Other.....	Day Charge Hrs...	0.00	
WOS....				Cum.Chargeable Hrs (Job)...	102.90	
L/Spread....			Toolbox/Induction.....	Standby Hrs...	3.60	
P/Spread....			Total Down Time.....	Cum.Standby Hrs (Job)...	10.60	
Prospect / Camp Move.....						
Washdowns / Weather / Other St/By.....	3.3		Cum. Down Time (Job).....	4.9	Cum.Total Hrs (Job)....	118.40

Production:	Vp's: 0	K.M's: 0.0000	Personnel #	25
	Skips: 0		Terrex Field #	22
			Terrex Line #	16
			Terrex Light vehicles #	11
			Terrex Heavy vehicles #	7
			Hire vehicles #	0
			Traffic Control Persons #	0
			Traffic Control Vehicles #	0
Weather:	Fine / Hot	Temp:	6 to 28	

Spread Movement					
Client: Blue Energy					
Layout			Pickup		
Line	Station #	Tot	Line	Station #	Tot
		1			1
<b>Total Stations:</b>		1	<b>Total Stations:</b>		1
Bad Cables		0	Bad Phones		0

**Comments:**

- \*Morning Toolbox meeting @BP in Moranbah.
- \*Washdowns completed, light vehicles@Moranbah, Heavy Vehicles@Nebo
- \*Blue Energy Moranbah 2D Completed.
- \*Crew mobilise from Blue Energy to Arrow Energy.
- \*Prospect move for light vehicles from Moranbah to May Downs
- \*Prospect move for heavy vehicles from Nebo to May Downs

\*Third (3rd) Cable truck not being used today.

Downtime:  
Recorder:  
T/Shooting:  
Vibrators:  
WOS:



# **APPENDIX H**

## **RECORDING STATISTICS**

### RECORDING STATISTICS

Date	Travel Time	Downtime	Recording	Layout/Pick-up Spread	Experimental	Daily Test	Recorder/Vibrator Move	Detours & Terrain	Prospect Move	Line Move	QC Spread	Parameter Change Traverse	WOS	Other	Weather/Other	Safety Meeting's	Total Stand-by	Total Hours	Total Km's
	Chargeable	Non-Chargeable	Chargeable	Chargeable	Chargeable	Chargeable	Chargeable	Chargeable	Chargeable	Chargeable	Chargeable	Chargeable	Chargeable	Chargeable	Stand-by	Stand-by	Chargeable	Chargeable	
29 August 2008									1.50								-	1.50	
30 August 2008	1.60	2.00		1.80		0.60			6.00								-	10.00	
31 August 2008	2.00	2.00	5.00			0.40	1.50	0.10		0.40			0.60		0.40	0.30	0.70	10.00	6.7500
1 September 2008	2.40	0.20	3.90				1.60	0.70					2.30	1.20		0.30	0.30	12.10	5.6400
2 September 2008	2.40	0.40	2.60				1.50	0.20		3.60	0.20		1.40			0.30	0.30	11.90	5.1600
3 September 2008	1.70	0.10	2.20	2.00			0.50	0.10	3.30		0.50		0.70		1.10	0.30	1.40	11.00	4.0800
4 September 2008	3.50		2.30	1.00			0.50	0.80			0.40		0.80		3.10	0.30	3.40	9.30	3.6900
5 September 2008	3.60	0.20	3.60				1.10	0.10		2.10	0.70		1.00			0.30	0.30	12.20	7.9650
6 September 2008	4.10		3.80				1.80			1.10			1.70			0.30	0.30	12.50	5.7450
7 September 2008	4.20		3.10	1.60			0.70			1.30	0.30		1.20			0.30	0.30	12.40	6.1800
8 September 2008															3.30	0.30	3.60	0.00	-
<b>Total</b>	<b>25.5000</b>	<b>4.9000</b>	<b>26.5000</b>	<b>6.4000</b>	<b>0.0000</b>	<b>1.0000</b>	<b>9.2000</b>	<b>2.0000</b>	<b>10.8000</b>	<b>8.5000</b>	<b>2.1000</b>	<b>0.0000</b>	<b>9.7000</b>	<b>1.2000</b>	<b>7.9000</b>	<b>2.7000</b>	<b>10.6000</b>	<b>101.4000</b>	<b>45.2100</b>