

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-01-30	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-01-30
Production	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	24:00
Other	0:00
Total:	24:00

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

UTC Midnight (24:00) Position / Heading:

Sierra Pier Guam Naval Base

3. TIME SUMMARY

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Technical Services Coordinator – Megan Meyer

Marine Tech – Bern McKiernan

Marine Tech – David Ng

Science Party on board:

None.

Marine Mammal Observer Staff on board:

None.

5.Daily Summary:

The Vessel Begin Mobilization efforts for MGL1204 – most of the Science Crew arrived today and setup of Science Equipment began for the mission.

Tomorrow:

Continue Mobilization efforts for MGL1204 – Last of the Science Crew will arrive, along with the PSO.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-01-31	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-01-31
Production	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	24:00
Other	0:00
Total:	24:00

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

UTC Midnight (24:00) Position / Heading:

Sierra Pier Guam Naval Base

3. TIME SUMMARY

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Technical Services Coordinator – Megan Meyer

Marine Tech – Bern McKiernan

Marine Tech – David Ng

Science Party on board:

None.

Marine Mammal Observer Staff on board:

None.

5.Daily Summary:

The Vessel Continue Mobilization efforts for MGL1204 – The last of the Science Crew arrived as well as the PSO. Setup of Science Equipment continued for the mission and the spaces were made ready for getting underway.

Tomorrow:

Continue Mobilization efforts for MGL1204 – Science Party is expected to arrive and get settled in onboard the vessel. The Science Crew will continue setup the science equipment for the mission and getting spaces ready for getting underway. The Vessel will depart for the mission area shortly before (~23:00 GMT) day change.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-01	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-01
Production	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	1:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	23:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

13 28.685'N lon144 36.527'E

Winds: NNE 10 kts

Seas: 2-3m DPT: 1217m

HDG: 40deg SOG: 11.0kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Amount of Time	Event
	0:00	23:00	23:00
	23:00	0:00	1:00
			Port Call
			Transit to Survey Area

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Marine Tech – David Ng

Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel

Miller, Nathan

Siegel, Jake

Feng, Helen

Coccia, Martina

Lu, Chuanchuan

Lundquist, John

Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.

Piercy, Meghan J.

Ellis, Emily M.

Harrison, Amanda L.

Moreno, Alexandra

5.Daily Summary:

The Vessel Continue Mobilization efforts for MGL1204 – All science party arrived onboard as well as the PSO. At 23:00 GMT the vessel got underway for the survey area and the transit continued throughout the rest of the day.

Tomorrow:

The Vessel started the day transiting the survey area. At ~16:00 GMT the vessel will begin deployment of the MCS Equipment and this will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-02	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-02
Production	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	6:44
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	17.16
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 17.788'N 146 45.810'E

Winds: NNE 10-15 Kts

Seas: 1-2 m DPT: 4487 m

HDG: 035 Deg SOG: 4.5 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Amount of Time	Event
0:00	17:16	17:16	Transit to Survey Area
17:16	0:00	6:44	Deploying Streamer

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatrow

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Marine Tech – David Ng

Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel

Miller, Nathan

Siegel, Jake

Feng, Helen

Coccia, Martina

Lu, Chuanchuan

Lundquist, John

Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.

Piercy, Meghan J.

Ellis, Emily M.

Harrison, Amanda L.

Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off in transit to the MGL1204 work site. At 17:16 GMT the vessel slowed down to 4.5 Kts STW to begin deployment of MCS Streamer. This operation continued throughout the day.

Tomorrow:

The Vessel started the day continuing the deployment of MCS Streamer. Once the Streamer is out the Source Array will be deployed and a short test line will be acquired before beginning the first line of the survey. The Survey will continue throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-03	<u>Sailed Km</u>
Prime	148.350
Infill	0.000
Reshoot	0.000
Total:	148.350

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-03
Production	18:52
Line Change	0:23
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	2:05
Streamer	2:40
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 50 07.611 N 146 56 03.751 E

Winds: NNE 15-20 Kts

Seas: 2-3 m DPT: 3452.6 m

HDG: 011.5 Deg SOG: 4.4 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
	0:00	2:40	Deploying Streamer			
	2:40	4:45	Deploying Source			
	4:45	5:12	Prime MGL1204MCST01	1553	1772	219
	5:12	5:35	Line Change			10.950
	5:35	0:00	Prime MGL1204MCS001	988	3736	2748
						137.400

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Marine Tech – David Ng

Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing deployment of MCS Streamer. At 02:40 GMT this operation was completed and deployment of the Energy Source Began. At 04:45 GMT the Energy Source was fully deployed and ramped up and test of all systems began. At 05:12 GMT the test line was completed and a short line changes was made to MGL1204MCS001 and at 05:35 GMT that line was began and continued throughout the day.

**** Note – During the test line and during the first part of MGL1204MCS001 – there was no streamer compass data being written into the P294 Navigation file. With some excellent support from David Martinson (Short Side) the problem was repaired and at 18:15 GMT all systems were fully operational.

Tomorrow:

The Vessel started the day in Production on MGL1204MCS001 which will continue until ~12:00 GMT at which time a line change will be made to MGL1204MCS002 that will continue throughout the rest of the day. During the line change Sub-Array 1 will be retrieved to make repairs on leaking airline.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-04	<u>Sailed Km</u>
Prime	177.500
Infill	0.000
Reshoot	0.000
Total:	177.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-04
Production	22:28
Line Change	1:31
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

18 23 31.186 N 146 23 13.694 E

Winds: NNE 20-25 Kts

Seas: 2-3 m DPT: 3531.4 m

HDG: 211.8 Deg SOG: 4.2 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

						Sail Line
Time		Event	FSP	LSP	Total SP	KM
0:00	11:29	Prime MGL1204MCS001	3737	5500	1763	88.150
11:29	13:01	Line Change				
13:01	0:00	Prime MGL1204MCS002	878	2665	1787	89.350

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus
Science Officer – Tom Spoto
Chief Source Mechanic – Chris Francis
Marine Tech – Mike Martello
Marine Tech – Mike Tatro
Marine Tech – West Groves
Marine Tech – Carlos Gutierrez
Marine Tech – David Ng
Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;
Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204MCS001 and at 11:29 GMT it was concluded an a line change was began. At 13:01 GMT MGL1204MCS002 was started and ran throughout the rest of the day.

**** Note – During the test line change Sub-Array1 was retrieved to make repairs to an Air Leak on S1G2.

Tomorrow:

The Vessel started the day in Production on MGL1204MCS002 which will continue until ~04:00 GMT at which time a line change will be made to MGL1204MCS003 that will continue throughout the rest of the day. During the line change Sub-Array 3 will be retrieved to make repairs to an Air Leak on S3G1.

Regards
Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-05	<u>Sailed Km</u>
Prime	163.500
Infill	0.000
Reshoot	0.000
Total:	163.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-05
Production	21:35
Line Change	01:30
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:55
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

017 51 41.184 N 147 43 02.726 E

Winds: E 30-35 Kts

Seas: 3-5 m DPT: 7428.2 m

HDG: 077.4 Deg SOG: 4.5 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	2:13	Prime MGL1204MCS002	2666	2998	332	16.600
2:13	3:43	Line Change Extended LC d/t Source				
3:43	4:38	Maintenance				
4:38	0:00	Prime MGL1204MCS003	987	3925	2938	146.900

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Marine Tech – David Ng

Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204MCS002 and at 02:13 GMT it was concluded and a line change was begun. At 04:48 GMT MGL1204MCS003 was started and ran throughout the rest of the day.

**** Note – During the test line change Sub-Array 3 was retrieved to make repairs to an Air Leak on S3G1.

Tomorrow:

The Vessel started the day in Production on MGL1204MCS003 which will continue throughout the rest of the day

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-06	<u>Sailed Km</u>
Prime	153.600
Infill	7.850
Reshoot	6.100
Total:	167.550

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-06
Production	18:37
Line Change	0:00
Weather	5:23
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

017 50 55.047 N 148 49 05.442 E

Winds: ENE 30-35 Kts

Seas: 3-5 M DPT: 5825.1 M

HDG: 092.8 Deg SOG: 4.0 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

		Event				Sail Line
Time	Time		FSP	LSP	Total SP	KM
0:00	1:12	Prime MGL1204MCS002	3925	2998	927	46.350
1:12	6:35	Circle due to weather.				
6:35	7:48	Infill MGL1204MCS003A	3842	3999	157	7.850
7:48	8:45	Reshoot MGL1204MCS003A	4000	4122	122	6.100
8:45	0:00	Prime MGL1204MCS003A	4123	6268	2145	107.250

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Marine Tech – David Ng

Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204MCS003 and at 01:12 GMT the line was ended early due to the Seas Pulling the Streamer to the surface. We circled around on the line, doing some Maintenance on Sub-Arrays 1 & 2 and at 06:35 GMT restarted production on MGL1204MCS003A which ran throughout the rest of the day.

*** Note - During the Morning Hours the Maggie Stopped working and was retrieved. Due to the rough weather and the amount of water on the main deck, trouble shooting has not taken place.

Tomorrow:

The Vessel started the day in Production on MGL1204MCS003A which will continue until ~18:00 GMT at which time the Vessel will make a line change to MGL1204MCS004 which will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-07	<u>Sailed Km</u>
Prime	177.000
Infill	0.000
Reshoot	0.000
Total:	177.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-07
Production	22:56
Line Change	1:04
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

018 04 30.617 N 149 57 11.633 E

Winds: SE 15-20 Kts

Seas: 2-3 M DPT: 5269.7 M

HDG: 311.8 Deg SOG: 4.0 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

					Sail Line	
Time	Event	FSP	LSP	Total SP	KM	
0:00	18:19	Prime MGL1204MCS003A	6269	9133	2864	143.200
18:19	19:23	Line change				
19:23	0:00	Infill MGL1204MCS004	987	1663	676	33.800

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Marine Tech – David Ng

Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204MCS003A and at 18:19 GMT the line ended. A normal line change was executed and at 19:23 MGL1204MCS004 was started and production continued throughout the rest of the day.

*** Note – A couple of time during both lines today Steamer 1 had Telemetry Error were the last 2km of the Steamer would stop transmitting data. During MGL1204MGC004 the Steamer was keep at 15m to avoid the Swells from pulling it to the surface. During Line MGL1204MCS004 the Seismic Sample rate was changed from a 4ms Sample to a 2ms Sample and the Depth of the steamer was keep at 10m to avoid the swells from pulling it to the surface. Also during the day some Deck Testing of the Maggie was do and it seem to be functional and will be redeployed after the next line change.

Tomorrow:

The Vessel started the day in Production on MGL1204MCS004 which will continue until ~7:00 GMT at which time the Vessel will make a line change to MGL1204MCS005 which will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-08	<u>Sailed Km</u>
Prime	186.700
Infill	0.000
Reshoot	0.000
Total:	186.700

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-08
Production	23:14
Line Change	0:43
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:03
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

017 10 52.506 N 149 16 59.624E

Winds: ESE 10-15 Kts

Seas: 1-3 M DPT: 5426.4 M

HDG: 182.7 Deg SOG: 4.3 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

Time		Event	FSP	LSP	Total SP	Sail Line KM
0:00	6:44	Infill MGL1204MCS004	1664	2729	1065	53.250
6:44	7:27	Line change				
7:27	8:26	Infill MGL1204MCS005	966	1118	152	7.600
8:26	8:29	Line Change for Streamer Reconfigure				
8:29	0:00	Infill MGL1204MCS005A	1134	3651	2517	125.850

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Marine Tech – David Ng

Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204MCS004. At 06:44 GMT the line ended and a normal line change was executed. At 07:27 Line MGL1204MCS005 was started with the Streamer Configured for 8Km and 2ms Sample Rate. After Numerous Error is was decided us the software to shorten the Streamer from 8Km to 6Km so to keep the 2ms Sample rate. At 08:26 Line MGL1204MCS005 was stopped, the streamer configuration was changed and at 08:29 Line MGL1204MCS005A was started and continued throughout the day.

Tomorrow:

The Vessel will start the day in Production on MGL1204MCS005A which will continue until ~14:00 GMT at which time the Vessel will make a line change to MGL1204MCS006. During the line change Sub-Arrays 3 & 4 will be picked up for Maintenance. MGL1204MCS006 then will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-09	<u>Sailed Km</u>
Prime	177.350
Infill	0.000
Reshoot	0.000
Total:	177.350

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-09
Production	21:33
Line Change	1:30
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:57
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

016 22 11.568 N 149 46 07.825 E

Winds: ENE 10-15 Kts

Seas: 1-2 M DPT: 5704.4 M

HDG: 067 Deg SOG: 4.3 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	12:36	Prime MGL1204MCS05A	3652	5799	2147	107.350
12:36	14:06	Line change				
14:06	15:03	Extended L/C for Source				
15:03	0:00	Prime MGL1204MCS06	1018	2418	1400	70.000

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Marine Tech – David Ng

Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204MCS005A. At 12:36 GMT the line ended and a line change was executed, which had to be extended for Source Maintenance. At 14:06 Line MGL1204MCS006 (8km @ 4ms) was started and continued throughout the day. Shortly before Day Change the Maggie again stopped working and was retrieved. The Tow Leader is damaged and will need to be repaired or replaced. Trouble shooting will take place over the next couple of days.

Tomorrow:

The Vessel will start the day in Production on MGL1204MCS006 which will continue until ~02:00 GMT at which time the Vessel will make a line change to MGL1204MCS007. MGL1204MCS007 will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-10	<u>Sailed Km</u>
Prime	195.650
Infill	0.000
Reshoot	0.000
Total:	195.650

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-10
Production	22:56
Line Change	1:04
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:57
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

16 49 20.047 N 148 14 32.367 E

Winds: ENE 15-20 Kts

Seas: 2-3 M DPT: 6551.9 M

HDG: 279 Deg SOG: 4.4 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

		Event	FSP	LSP	Total SP	Sail Line
Time	Time					KM
0:00	1:46	Prime MGL1204MCS06	2419	2721	302	15.100
1:46	2:49	Line change				
2:49	23:13	Prime MGL1204MCS07	928	4416	3488	174.400
		Line change (Changed				
23:13	23:14	Record Length to 19 Sec)				
23:14	0:00	Prime MGL1204MCS07A	4420	4543	123	6.150

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Marine Tech – David Ng

Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204MCS006. At 01:46 GMT the line ended and a line change was executed. At 02:49 Line MGL1204MCS007 was started. At 23:13 GMT the line was stopped to change the Seismic Record Length from 15 to 19 sec. At 23:14 GMT MGL1204MCD007A was started and continued throughout the day.

**** NOTE: Maggie Tow Leader Repair ongoing.

Tomorrow:

The Vessel will start the day in Production on MGL1204MCS007A which will continue until ~23:00 GMT at which time the Vessel will have finished all MCS Operations and begin retrieval of all towed equipment in preparation for OBS (Source Only) Operations to begin in the new day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-11	<u>Sailed Km</u>
Prime	195.800
Infill	0.000
Reshoot	0.000
Total:	195.800

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-11
Production	24:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 06 13.574 N 146 25 36.674 E

Winds: NE 15-20 Kts

Seas: 2-4 M DPT: 3033 M

HDG: 271 Deg SOG: 4.6 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:00 Prime MGL1204MCS07A		4544	8460	3916 195.800

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus

Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis

Marine Tech – Mike Martello

Marine Tech – Mike Tatro

Marine Tech – West Groves

Marine Tech – Carlos Gutierrez

Marine Tech – David Ng

Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204MCS00A. and this continued throughout the day.

**** NOTE: Maggie Tow Leader Repaired and back in service at 11:16 GMT

Tomorrow:

The Vessel will start the day in Production on MGL1204MCS007A which will continue ~00:25 GMT at which time the Vessel will have finished all MCS Operations and begin retrieval of all towed equipment in preparation for OBS (Source Only) Operations. As soon as the Streamer is onboard and the source is re-deployed production will resume on OBS Lines. This operation is expected to begin ~12:00 GMT.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-12	<u>Sailed Km</u>
Prime	110.095
Infill	0.000
Reshoot	0.000
Total:	110.095

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-12
Production	13:38
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	5:57
Streamer	3:43
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:42
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

16 57 32.806 N 147 22 22.639 E

Winds: E 25-30 Kts

Seas: 3-4 M DPT: 5015 M

HDG: 095 Deg SOG: 4.4 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:24	Prime MGL1204MCS07A		8461	8530	69 3.450
0:24	1:52	Recovery Source				
1:52	5:35	Recovery Streamer				
5:35	10:04	Deployment Source				
10:04	10:46	Maneuvering for Line				
10:46	0:00	Prime MGL1204OBS01		997	1212	215 107.500

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204MCS07A. At 00:24 GMT the line was concluded and retrieval of all towed equipment began. This operation was completed at 05:35 with the Streamer Tailbuoy being safely recovered. At this time the source was redeployed, during the deployment of Sub-Array #1 a couple of Firing lines from the RCM to GCM 1 and GCM 1 to GCM 2 were damages and it took some time to trouble shoot. At 10:04 GMT all Sub-arrays were fully deployed and the vessel began Maneuvering for Line MGL1204OBS001. This line started at 10:46 GMT and continued throughout the rest of the day.

**** NOTE: During the Streamer recover it was noticed that there was evidence of something being dragged down the streamer. 4 out of the first 7 attached devices (Birds & Acoustic) where either hang or had strike marks on them. A little further down the streamer there was more evidence of a strike with a black paint or rubber material on the streamer which caused some minor skin damage. Unrelated to the streamer strike is was also discovered during the recovery of Sub-Array #1 is that Acoustic Pod was missing.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS001 which will continue throughout the day..

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-13	<u>Sailed Km</u>
Prime	191.500
Infill	0.000
Reshoot	0.000
Total:	191.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-13
Production	24:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

16 40 31.301 N 149 09 00.191 E

Winds: ESE 20-25 Kts

Seas: 3-4 M DPT: 5060 M

HDG: 101 Deg SOG: 4.7 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	0:00	Prime MGL1204OBS01	1213	1596	383	191.500

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204OBS001 and continued throughout the rest of the day.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS001 and at ~10:00 GMT the line will conclude and a normal Line change to MGL1204OBS002 will take place and this line will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-14	<u>Sailed Km</u>
Prime	165.500
Infill	0.000
Reshoot	0.000
Total:	165.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-14
Production	22:48
Line Change	1:18
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

16 26 03.193 N 149 08 21.817 E

Winds: E 20-25 Kts

Seas: 3-4 M DPT: 4651.7 M

HDG: 184 Deg SOG: 4.3 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	9:56	Prime MGL1204OBS01	1597	1754	157	78.500
9:56	11:10	Line Change				
11:10	20:43	Prime MGL1204OBS02	993	1115	122	61.000
20:43	20:47	Line Change				
20:47	0:00	Prime MGL1204OBS03	1002	1054	52	26.000

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204OBS001 and at 09:56 GMT then Line concluded an a normal line change was made to MGL1204OBS002. This line started at 11:10 and went to 20:43GMT at which time another normal line change was made. At 20:47GMT Line MGL1204OBS003 started and continued throughout the rest of the day.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS003 and at ~04:00 GMT the line will conclude an a extended Line change to MGL1204OBS004 will take place. During which time Maintenance on Sub-Array's 3 & 4 will take place. Once the Maintenance is completed, Line MGL1204OBS004 will be started and continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-15	<u>Sailed Km</u>
Prime	180.500
Infill	0.000
Reshoot	0.000
Total:	180.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-15
Production	22:00
Line Change	1:14
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:46
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 34 22.595 N 149 21 33.789 E

Winds: E 10-15 Kts

Seas: 1-3 M DPT: 5437.5 M

HDG: 010 Deg SOG: 4.6 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

				Total	Sail Line
Time	Event	FSP	LSP	SP	KM
0:00	2:51	Prime MGL1204OBS03	1055	1101	46 23.000
2:51	4:05	Line Change			
4:05	4:51	L/C Extended for Source Maintenance			
4:51	0:00	Prime MGL1204OBS04	989	1304	315 157.500

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204OBS003 and at 02:51 GMT then Line concluded and an extended line change was made to MGL1204OBS004. During the line change Maintenance was performed on Sub-Array's 3 & 4. MGL1204OBS04 was started at 04:51GMT and continued throughout the rest of the day.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS004 and at ~08:00 GMT the line will conclude and an extended Line change to MGL1204OBS005 will take place. During which time Maintenance on Sub-Array's 1 & 2 will take place. Once the Maintenance is completed, Line MGL1204OBS005 will be started and should continue until ~18:00 GMT at which time a shot line change to MGL1204OBS006 happen and this line will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-16	<u>Sailed Km</u>
Prime	175.000
Infill	0.000
Reshoot	0.000
Total:	175.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-16
Production	21:12
Line Change	1:21
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	1:27
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 50 04.897 N 149 37 09.858 E

Winds: SE 5 -10 Kts

Seas: 1 M DPT: 5135.3 M

HDG: 090 Deg SOG: 4.3 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

			Sail Line			
Time	Event	FSP	LSP	Total SP	KM	
0:00	10:38	Prime MGL1204OBS04	1305	1481	176	88.000
10:38	11:52	Line Change				
11:52	13:19	L/C Extended for Source Maintenance				
13:19	21:17	Prime MGL1204OBS05	984	1116	132	66.000
21:17	21:24	Line Change				
21:24	0:00	Prime MGL1204OBS06	1003	1045	42	21.000

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204OBS004 and at 10:28 GMT then Line concluded and an extended line change was made to MGL1204OBS005. During the line change Maintenance was performed on Sub-Array's 1 & 2. MGL1204OBS05 was started at 13:19 GMT and went until 21:17 GMT, at which time a short line change was made. MGL1204OBS06 was started at 12:24 and continued throughout the rest of the day.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS006 and at ~06:00 GMT the line will conclude and a to MGL1204OBS007 will take place. During which time Maintenance on Sub-Array's 2 will take place. Once the Maintenance is completed, Line MGL1204OBS007 will be started and should continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-17	<u>Sailed Km</u>
Prime	181.500
Infill	0.000
Reshoot	0.000
Total:	181.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-17
Production	22:00
Line Change	1:14
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:46
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 50 42.655 N 149 02 13.491 E

Winds: Calm

Seas: <1 M DPT: 5732 M

HDG: 270 Deg SOG: 4.4 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

						Sail Line
	Time	Event	FSP	LSP	Total SP	KM
0:00	7:00	Prime MGL1204OBS06	1046	1162	116	58.000
7:00	8:14	Line Change				
8:14	9:00	L/C Extended for Source Maintenance				
9:00	0:00	Prime MGL1204OBS07	994	1241	247	123.500

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204OBS006 and at 07:00 GMT then Line concluded and an extended line change was made to MGL1204OBS007. During the line change Maintenance was performed on Sub-Array 2. MGL1204OBS07 was started at 09:00 GMT and continued throughout the rest of the day.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS007 and should continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-18	<u>Sailed Km</u>
Prime	199.500
Infill	0.000
Reshoot	0.000
Total:	199.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-18
Production	24:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 51 59.342 N 147 09 00.859 E

Winds: Calm

Seas: <1 M DPT: 3828.5 M

HDG: 270 Deg SOG: 4.3 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:00 Prime MGL1204OBS07		1242	1641	399 199.500

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204OBS007 and continued throughout the rest of the day.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS007 and at ~02:30 GMT will make a short line change to MGL1204OBS008. MGL1204OBS008 will continue to ~12:30 GMT at which time a normal line change will be made to MGL1204OBS009. This line will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-19	<u>Sailed Km</u>
Prime	188.500
Infill	0.000
Reshoot	0.000
Total:	188.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-19
Production	22:28
Line Change	1:32
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

1755 06.154 N 146 55 55.292 E

Winds: E 10 – 15 Kts

Seas: 1-2 M DPT: 3452.2 M

HDG: 180 Deg SOG: 4.4 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

		Event	FSP	LSP	Total SP	Sail Line	
Time	Time					KM	
0:00	2:27	Prime MGL1204OBS07		1642	1685	43	21.500
2:27	2:47	Line Change					
2:47	12:48	Prime MGL1204OBS08	1003	1170	167		83.500
12:48	14:00	Line Change					
14:00	0:00	Prime MGL1204OBS09	992	1159	167		83.500

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel started the day off continuing Production on MGL1204OBS007. At 02:27 GMT the line ended and a short line was made to MGL1204OBS08 which started at 02:47 GMT. At 12:48 GMT Line MGL1204OBS08 ended and a normal Line change was made to MGL1204OBS09, which started at 14:00 GMT and continued throughout the rest of the day.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS09 and at ~00:30 GMT will make a short line change to MGL1204OBS10. MGL1204OBS10 will continue to ~12:30 GMT at which time a normal line change will be made to MGL1204OBS11. MGL1204OBS11 will conclude shortly before day change and a short line change will be made to MGL1204OBS12. This line will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-20	<u>Sailed Km</u>
Prime	185.000
Infill	0.000
Reshoot	0.000
Total:	185.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-19
Production	22:34
Line Change	1:26
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 24 09.117 N 146 56 33.416 E

Winds: E 20-25 Kts

Seas: 2-3 M DPT: 3886.9 M

HDG: 180 Deg SOG: 4.4 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

		Event	FSP	LSP	Total SP	Sail Line	
Time	Time					KM	
0:00	0:32	Prime MGL1204OBS09		1160	1168	8	4.000
0:32	0:39	Line Change					
0:39	8:13	Prime MGL1204OBS10		1002	1128	126	63.000
8:13	9:30	Line Change					
9:30	17:43	Prime MGL1204OBS11		993	1127	134	67.000
17:43	17:45	Line Change					
17:45	0:00	Prime MGL1204OBS12		1002	1104	102	51.000

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel completed the following Line today; MGL1204OBS09, MGL1204OBS10, & MGL1204OBS11 and at the end of the day was in production on MGL1204OBS12.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS12, once complete will begin production on MGL1204OBS13 and by End of the day will be working on MGL1204OBS18.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-21	<u>Sailed Km</u>
Prime	187.000
Infill	0.000
Reshoot	0.000
Total:	187.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-12
Production	22:41
Line Change	1:19
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

16 57 09.051 N 147 24 53.356 E

Winds: E 20-25 Kts

Seas: 2-3 M DPT: 5733.4 M

HDG: 097 Deg SOG: 4.1 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

		Event	FSP	LSP	Total SP	Sail Line	
Time						KM	
0:00	10:38	Prime MGL1204OBS12		1105	1282	177	88.500
10:38	11:47	Line Change					
11:47	17:48	Prime MGL1204OBS13		993	1092	99	49.500
17:48	17:58	Line Change					
17:58	0:00	Prime MGL1204OBS18		1123	1221	98	49.000

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel completed the following Line today; MGL1204OBS12, & MGL1204OBS13 and at the end of the day was in production on MGL1204OBS18.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS18 which will continue throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-22	<u>Sailed Km</u>
Prime	196.000
Infill	0.000
Reshoot	0.000
Total:	196.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-22
Production	23:55
Line Change	0:05
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

16 43 44.983 N 149 11 44.058 E

Winds: E 20-25 Kts

Seas: 2-3 M DPT: 5178.6 M

HDG: 000 Deg SOG: 4.7 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

						Sail Line
Time	Event	FSP	LSP	Total SP	KM	
0:00	23:04	Prime MGL1204OBS18	1222	1601	379	189.500
23:04	23:09	Line Change				
23:09	0:00	Prime MGL1204OBS19	1101	1114	13	6.500

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel completed the following Line today; MGL1204OBS18, and at the end of the day was in production on MGL1204OBS19.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS19 which will continue throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-23	<u>Sailed Km</u>
Prime	198.000
Infill	0.000
Reshoot	0.000
Total:	198.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-23
Production	23:57
Line Change	0:03
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 51 00.100 N 148 42 07.626 E

Winds: E 5-10 Kts

Seas: 1-2 M DPT: 5902 M

HDG: 270 Deg SOG: 4.5 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	14:53	Prime MGL1204OBS19		1115	1361	246
14:53	14:56	Line Change				123.000
14:56	0:00	Prime MGL1204OBS20		1162	1312	150
						75.000

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel completed the following Line today; MGL1204OBS19, and at the end of the day was in production on MGL1204OBS20.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS20 which will continue throughout most of the day. Shortly before day change the vessel will make a short line change onto MGL1204OBS21 which will last throughout the rest of the day..

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-23	<u>Sailed Km</u>
Prime	198.500
Infill	0.000
Reshoot	0.000
Total:	198.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-23
Production	23:47
Line Change	0:13
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 44 28.522 N 146 46 08.693 E

Winds: E 5-10 Kts

Seas: 1-2 M DPT: 3763 M

HDG: 180 Deg SOG: 4.5 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

						Sail Line
Time	Event	FSP	LSP	Total SP	KM	
0:00	22:12	Prime MGL1204OBS20	1313	1684	371	185.500
22:12	22:25	Line Change				
22:25	0:00	Prime MGL1204OBS21	1003	1029	26	13.000

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel completed the following Line today; MGL1204OBS20, and at the end of the day was in production on MGL1204OBS21.

*** Note at 06:32 GMT the Atmosphere feed line to the PC02 was disconnected due to water condensing in the feed line.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS21. It should complete lines MGL1204OBS21, MGL1204OBS22 and be in production on MGL1204OBS23 at the end of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-25	<u>Sailed Km</u>
Prime	187.500
Infill	0.000
Reshoot	0.000
Total:	187.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-25
Production	22:30
Line Change	1:30
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

17 02 40.172 N 146 48 59.587 E

Winds: E 5-10 Kts

Seas: 1-2 M DPT: 3892 M

HDG: 097 Deg SOG: 4.0Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

		Event	FSP	LSP	Total SP	Sail Line	
Time						KM	
0:00	9:20	Prime MGL1204OBS21		1028	1185	157	78.500
9:20	9:31	Line Change					
9:31	16:34	Prime MGL1204OBS22		1119	1001	118	59.000
16:34	17:53	Line Change					
17:53	0:00	Prime MGL1204OBS23		992	1092	100	50.000

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel completed the following Line today; MGL1204OBS21 and MGL1204OBS22, and at the end of the day was in production on MGL1204OBS23.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS23 and this will continue through the end of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-26	<u>Sailed Km</u>
Prime	199.500
Infill	0.000
Reshoot	0.000
Total:	199.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-25
Production	24:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

Position

16 45 13.208 N 148 40 09.485 E

Winds: E 15-20 Kts

Seas: 1-2 M DPT: 5505 M

HDG: 097 Deg SOG: 4.6 Kts

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	0:00	Prime MGL1204OBS23	1093	1492	399	199.500

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel spent all day in production on MGL1204OBS23.

Tomorrow:

The Vessel will start the day in Production on MGL1204OBS23 and once completed will make a short line change to MGL1204OBS24. At ~10:00 GMT the vessel will end this line and begin recovering the towed equipment before beginning its transit back to Guam which continue through the end of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-27	<u>Sailed Km</u>
Prime	82.000
Infill	0.000
Reshoot	0.000
Total:	82.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-27
Production	09:52
Line Change	0:10
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:58
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	13:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

015 28' 44.089" N 147 12' 52.201" E

Wind 14kts ENE Seas: 1-2m Depth: 4450.95

SPD: 10.85 kts HDG: 232.02 Fth: N/A D.C. N/A

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

						Sail Line	
Time	Event	FSP	LSP	Total SP	KM		
0:00	6:29	Prime MGL1204OBS23	1493	1601	108	54.000	
6:29	6:39	Line Change					
6:39	10:02	Prime MGL1204OBS24	1102	1158	56	28.000	
10:02	11:00	Source Recovery					
11:00	0:00	Transit to Guam					

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel completed line MGL1204OBS23 and MGL1204OBS24. At 10:02 GMT all production was completed and all towed equipment was recovered. The Transit back to Guam began at 11:00 GMT and continued throughout the day.

Tomorrow:

The Vessel will start the day transit back to Guam. At ~22:00 GMT the vessel will arrive in Port and well begin Demobilization efforts for MGL1204 and Mobilization efforts for MGL1205, these operations will continue through the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-02-28	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-02-28
Production	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	22:23
Ship Repair	0:00
Maneuvering	0:00
Port Call	1:37
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

13 26.159 N 144 39.754 E

Wind: N/A Seas: N/A Depth: N/A

SPD: N/A HDG: N/A Fth: N/A D.C. N/A

Cruise : MGL1204 (Weins)

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus (Chief Science Officer)

Mantle Serpentinization

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Amount of Time	Event
	0:00	22:23	Transit to Guam
	22:23	0:00	Port Call - Romeo Pier

4. Comments

Science Technical staff on board:

Sr. Science Officer – Robert J Steinhaus; Science Officer – Tom Spoto

Chief Source Mechanic – Chris Francis; Marine Tech – Mike Martello

Marine Tech – Mike Tatro; Marine Tech – West Groves

Marine Tech – Carlos Gutierrez; Marine Tech – David Ng; Marine Tech – Tina Thomas

Science Party on board:

Lizarralde, Daniel; Miller, Nathan; Siegel, Jake; Feng, Helen; Coccia, Martina; Lu, Chuanchuan;

Lundquist, John; Hughes, Matthew

Marine Mammal Observer Staff on board:

Ingram, Heidi E.; Piercy, Meghan J.; Ellis, Emily M.; Harrison, Amanda L.; Moreno, Alexandra

5.Daily Summary:

The Vessel Transited back to Guam and at 22:23 GMT Arrived alongside Romeo Dock and continued throughout the rest of the day. Demobilization efforts for MGL1204 and Mobilization efforts for MGL1205 began and these operations continued through the rest of the day.

Tomorrow:

The Vessel will be in port and will continue Demobilization efforts for MGL1204 and Mobilization efforts for MGL1205, through the day.

Regards

Robert J Steinhaus