

3.3. RECORD OF OPERATIONS

PROTECTED SPECIES RECORDING FORM  
OPERATIONS



Regulatory reference number OCS-G07828  
Project number UMS04081

Vessel name Geodetic Surveyor  
Operations page number 1 of 1

Date	Time pre-shooting visual monitoring began	Time pre-shooting visual monitoring ended	Time pre-shooting acoustic monitoring began	Time pre-shooting acoustic monitoring ended	Was it day or night in period prior to firing?	Reason for firing s = survey t = test x = test followed immediately by survey	Time soft start / ramp-up began	Time soft start / ramp-up ended	Time of start of line / test	Time of end of line / test	Time gun(s) disabled after line / test	Time mitigation gun enabled / source output reduced	Time mitigation gun disabled / end of reduced output	Was any mitigation action required?
2011-08-18	16:10	16:40			day	s	16:40	17:00	17:51	18:19				no
2011-08-18									18:48	19:16				no
2011-08-18									19:33	19:58				no
2011-08-18									20:17	20:44				no
2011-08-18									21:24	21:51				no
2011-08-18									22:08	22:33				no
2011-08-18									22:53	23:20				no
2011-08-18									23:44					no
2011-08-19									00:12					no
2011-08-19									00:31	00:59				no
2011-08-19									01:20	01:47				no
2011-08-19									02:05	02:33				no
2011-08-19									03:07	03:34				no
2011-08-19									03:58	04:26				no
2011-08-19									04:50	05:17				no
2011-08-19									05:37	06:06				no
2011-08-19									06:31	07:00				no
2011-08-19									07:19	07:46				no
2011-08-19									08:57	09:25	09:25			no



### 3.4. LOCATION AND EFFORT



### PROTECTED SPECIES RECORDING FORM EFFORT

Regulatory reference number OCS-G07828  
 Project number UMS04081

Vessel name Geodetic Surveyor  
 Effort page number 1 of 1

Date	Visual or PAM	Observers' initials	Start of watch				End of watch				Wind speed (knots)	Wind direction	Beaufort scale	Swell (m)	Visibility (km)	Glare severity
			Time	Latitude	Longitude	Depth (m)	Time	Latitude	Longitude	Depth (m)						
2011-08-18	visual	PK, LB, RW	11:15	29d15.9mn	088d1.5mw	99	24:00	29d20.8mn	088d4.1mw	96	8	NNE	1	<2	>5	none
2011-08-19	visual	PK, LB, RW	00:00	29d20.8mn	088d4.1mw	96	00:40	29d21.3mn	088d4.3mw	96	8	NNE	1	<2	>5	none



### 3.5. RECORD OF DETECTION

RPS

#### PROTECTED SPECIES RECORDING FORM DETECTION

<b>Date</b>	<b>Project number</b>	<b>Time at first detection (UTC)</b>	<b>Time at last detection (UTC)</b>	<b>Visual detection number</b>	<b>Acoustic detection number</b>
8-18-2011	UMS04081	16:21	16:23	1	n/a
<b>Regulatory reference number</b>		<b>Vessel name</b>	<b>Survey type</b>		<b>Observer(s)</b>
OCS-G-07828		<i>Geodetic Surveyor</i>	other: UHR		
<b>Detection was made</b>		<b>Detection was first made</b>			
visually		visually by observer keeping a continuous watch			
<b>Latitude of vessel</b>		<b>Longitude of vessel</b>	<b>Heading of vessel (degrees)</b>	<b>Water depth (metres)</b>	
29.35983°N		088.09000°W	293	100	
<b>Swell height (metres)</b>	<b>Beaufort scale</b>	<b>Precipitation</b>	<b>Visibility (km)</b>	<b>Cloud cover (%)</b>	<b>Glare severity and direction</b>
<2m	1	none	>5km	10	moderate from W
<b>Common name</b>		<b>Scientific name</b>	<b>Certainty of identification</b>		
Leatherback sea turtle		<i>Dermochelys coriacea</i>	definite		
<b>Total number</b>	<b>Number of adults</b>	<b>Number of juveniles</b>	<b>Bearing to animal(s) when first detected (degrees)</b>	<b>Range to animal(s) when first detected (metres)</b>	
1	1	0	245	160	
<b>Description</b> (include features such as overall size; shape of head; colour and pattern; size, shape, and position of dorsal fin; height, direction, and shape of blow; etc.)			<b>Visual sighting and/or Acoustic detection details</b> (note behavior, especially changes in relation to gun activity and distance from gun array)		
A sea turtle with a dark brown black soft skin covering it's back. The body is 2.4m in length with seven vertical ridges running down the back. Flippers had a combined length of 2.7m. Large head of the same color as skin.			The turtle was first spotted when it came up for air off port. The turtle took several breaths and then dove.		
<b>Direction of travel / first approach</b> (relative to vessel)			<b>Initial compass heading</b> (degrees)	<b>Final compass heading</b> (degrees)	
parallel in same direction as vessel			270	270	
<b>Closest distance of animals to airguns/source</b> (metres)	<b>Closest distance of animals to vessel</b> (metres)		<b>Source activity at initial detection</b>	<b>Source activity at final detection</b>	
160	100		full power while on survey line	full power while on survey line	
<b>Time at closest approach</b> (UTC)	<b>Distance during soft start</b> (m)			<b>Source mitigation action(s) required</b>	<b>Strike avoidance maneuvers required</b>
16:21	<b>First</b>	<b>Closest</b>	<b>Last</b>	none	no
	n/a	n/a	n/a		
<b>Duplicate detection? If yes, provide duplicate detection number</b>			<b>Total duration animals observed in exclusion zone</b> (HH:MM)	<b>Total duration of production loss due to mitigation action</b> (HH:MM)	
no			00:02	00:00	
<b>Other notes or comments</b>					