Bureau of Ocean Energy Management

OMB Control Number 1010-0151 OMB Approval Expires: x/xx/202x

ROV Survey Report

A. Instructions:

The Bureau of Ocean Energy Management is requesting that selected operators perform a limited ROV visual habitat survey before and after operations. This survey report form is to be used for recording basic information and observations made during two sets of excursions of an ROV from the drilling rig or platform to a **minimum distance of 100 meters** from the well site.

OCS Lease #	Area/Block #	BOEM Control # Date	
ROV Operator		Location: Lat Long	
Facility Name		Water Depth	

B. The ROV Survey Report consists of:

- 1). Recorded information on this ROV Survey Report Form.
- 2). Video tape (VHS) of bottom throughout deployment.
- 3). Any additional imagery that may help depict bottom conditions such as scanning sonar data.

This data set is to be sent to the address on the last page of this report form.

C. Two separate deployments are required.

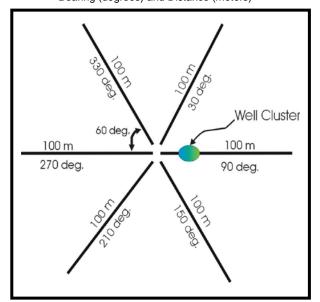
- 1). Prior to any activities.
- 2). After all operations have been completed.

ROV Transect Information

The Figures below depict a suggested SURVEY PATTERN and a blank space for a sketch of the actual survey tracks that were used. Sketch in your best estimate of your actual surveys with bearings and distances.

Example Survey Pattern

Bearing (degrees) and Distance (meters)



Your Actual Survey Pattern

Bearing (degrees) and Distance (meters)

At least one transect should pass over or near the well or well cluster site (indicate location).

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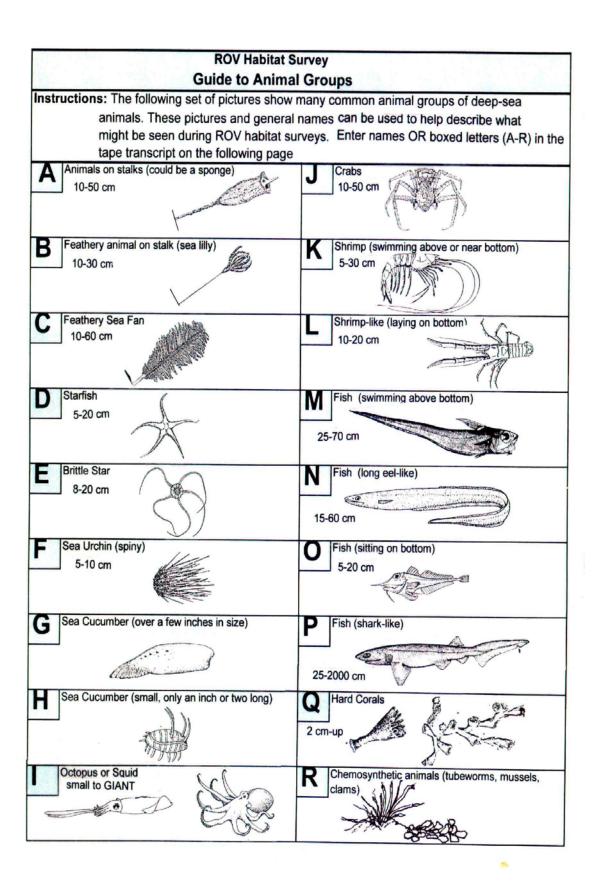
ROV Survey Log Sheet Tape Transcript

Instructions: Similar to standard ROV operations, log in all major events (examples: start transect, animals sighted, beginning and end of bottom features, currents, etc.). See page 3 for names of many common deep-sea animal groups. **Of particular interest are any rocky or hard bottoms and attached animals.**

Enter Elapsed Time from beginning of tape and description of EVENT or OBSERVATION

Time	Counter #	Description
Example O:55	135	Z with 1 N and 3Q, tan sediment type S. OR this style ; Large 2 ft. rock with an eel-like fish and 3 small corals on rock, tan bottom mud, a few burrows

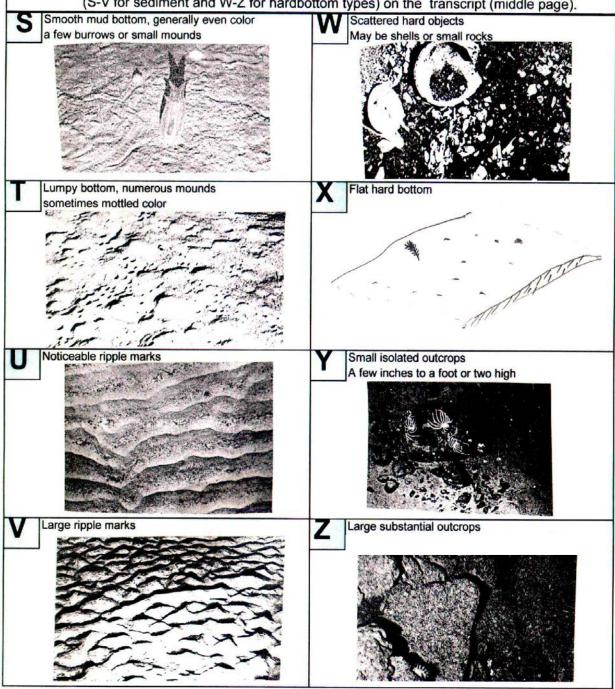
IMPORTANT: If any rock outcrops or hardbottom is seen and there are any living animals growing on it, record on this page. In-house ROV log sheets can be used, or copy this form as necessary.



ROV Habitat Survey Guide to Physical Features

Instructions: Similar to the picture guide for animals, the following set of pictures show many types of physical features that could be seen in the deep sea. These pictures and general names can be used to help describe what might be seen during your ROV habitat surveys. Enter descriptions OR boxed letters:

(S-V for sediment and W-Z for hardbottom types) on the transcript (middle page).



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Summary Sheet for ROV Pilot and Navigator

The Bureau of Ocean Energy Management (BOEM) regulates the development of Outer Continental Shelf (OCS) oil and natural gas resources, and strives for operations that are both safe and environmentally sound. Several activities related to development in deepwater may have localized impacts on benthic communities, if such communities exist near the facility.

An ROV survey is required of selected operators as a verification of the effectiveness of existing BOEM environmental reviews and mitigations imposed to avoid impacts to certain types of seafloor biologic communities. The ROV survey consists of recording biological and physical information on this ROV survey form and submitting the forms and videotapes of the transects and any additional imagery that may help depict bottom conditions such as ROV scanning sonar data.

Conduct the two ROV surveys and complete pages 1 and 2, documenting basic visual sightings of deepwater animals and bottom conditions. What we are looking for is an account of the *types* of animals present and the appearance of the bottom such as color and texture. No scientific expertise is required, simply do the best job possible using the pictures or simple descriptions. We have found that the seafloor is generally a rather featureless plain with relatively few visible animals and minimal currents. We are interested in all observations of animals and indications of currents such as ripple marks and bottom types. Of particular interest is the observation of hardbottom areas or outcrops with any attached animals.

Fly the ROV close enough to the bottom so that relatively small animals and features (one inch and larger) can be observed and identified on the resulting videotape. Suggested track lines at 60-degree intervals are depicted on page 1. This is just a suggested pattern, the important requirements being that each of the six excursions extend at least 100 meters from the launch point and that a minimum of one transect pass directly over or near the well or well cluster (template) site. Show the tracks in the survey report with transect numbers, times, and bearings indicated so that video images can be later located in relation to the well or well cluster site and using the videotape timelines. Close-up shots of individual animals or new bottom types are very helpful.

For operators interested in becoming familiar with the appearance of chemosynthetic communities, there are other sites, including one maintained by BOEM that contain excellent images: http://www.gomr.boemre.gov/homepg/regulate/environ/chemo/chemo.html
http://www.bio.psu.edu/cold_seeps/index.html

Paperwork Reduction Act of 1995 (PRA) Statement: The PRA (44 U.S.C. 3501 et seq.) requires BOEM to inform you that we collect the information on this form to identify high-density biological communities that may occur on the seafloor in deep water and, if such areas are found, to help design mitigation measures to avoid them in the future. The survey will help to assess the effectiveness of existing avoidance criteria and expand the knowledge base regarding the benthic habitats of the deep-water seafloor. Authority for collecting this information is 30 CFR 250.201(a). An agency may not conduct or sponsor and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. The Office of Management and Budget (OMB) approved the collection of information required under 30 CFR, subpart B. Responses are mandatory (43 U.SC. 1334). Public reporting burden for this form is estimated to average 3 hours, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms associated with subpart B. Direct comments regarding the burden estimate or any other aspect of this information collection to the Information Collection Clearance Officer, Bureau of Ocean Energy Management, Regulation and Enforcement, 45600 Woodland Road, Sterling, Virginia 20166.

Upon completion of the two separate ROV deployments, please mail this form and videotapes/sonar data to:

Office of Field Operations, Plans Section MS 5230

Department of the Interior Bureau of Ocean Energy Management, Regulation and Enforcement 1201 Elmwood Park Boulevard New Orleans, Louisiana 70123

Information Contact: Gregory Boland or Herb Leedy

Leasing and Environment Environmental Sciences Section (504) 736-2740 or (504) 736-2776



U.S. Department of the Interior Bureau of Ocean Energy Management Gulf of Mexico OCS Region