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MC252 Incident - IMT

Procedure for Obtaining Source Oil Samples from the Discoverer Enterprise Drillship

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MC252 Incident Response

Procedure for Obtaining Source Oil Samples from the Discoverer Enterprise Drill ship

This procedure outlines the steps that will be employed to collect source oil samples at the Discoverer Enterprise drill ship and prepare samples for shipment. Representatives from NOAA, Trustee representative, and BP, represented by ENTRIX, will conduct the sample collection.

1.0 Objective

The purpose of the document is to direct the collection of samples of fresh source oil from the topsides process piping, after separation of gas and water. This sampling shall occur after the execution of the "Riser Insertion Tube Tool" procedures and source oil is being processed to surface.

2.0 Materials List

Appropriate PPE (Personal Protective Equipment)

- Chemical resistant gloves and protective clothing such as chemical apron.
- Safety glasses with eye shields or safety face shield.
- Mask respirator suitable for hydrocarbon environments.
- Any additional PPE required by Drillship.
- Fire retardant clothing.

Sample Materials

- Sample containers as required.
- Sample container labels and clear tape for affixing to containers.
- Waterproof Sharpie pen.
- Bubble wrap.
- Evidence tape.
- Ice chests with sufficient ice to keep samples at approximately 4 degrees Celsius for 10 to 12 hours. These ice chests shall contain bags for the ice to help reduce movement of samples during transit. They shall be staged at the Port, where source oil samples shall be re-packed into ice chests after being transported to shore at ambient temperature from the Discoverer Enterprise.
- Chain-of-Custody documents for each laboratory for each ice chest.
- Dry cleaning cloth or towel

3. Sample Collection Procedure

1) An ENTRIX or other properly trained sampling personnel will perform the sample collection per Section 4. The sampling person(s) must have current respirator fit testing and the "6-1 Offshore and Water Survival Training" or an approved Management of Change document. A Trustee representative shall document the sampling, fill out the sample labels, log book, and Chain of Custody forms, and photo-document the sampling.

2) Wear appropriate PPE (Personal Protective Equipment), including disposable gloves, safety glasses with eye shields or safety face shield, mask respirator suitable for hydrocarbon environments, and apron.

3) The sample point will be taken after the separator (after gas/water separation). Open the sample point and purge the sample point to remove any potential contaminants such as residual debris or oil in to a "purge" bucket/pail (container to collect initial flow) to obtain a representative sample. Dispose of "purge" bucket/pail contents in a BP designated oil recovery location.

4) Sample Containers (toxicity testing): 4-liter plastic jugs, pre-cleaned. 4 liter and/or 1 liter amber glass jars with Teflon® lids also acceptable. Collect 150 L (40 gallons).

5) Sample Containers (chemistry testing/archive): 4-liter and/or 1-liter amber glass, pre-cleaned with Teflon® lids required. Collect 150 L (40 gallons).

6) Take multiple series of photographs of the oil recovery process from the start of the transfer of oil to sample jars to the final custody sealing of each jar (i.e., the entire process). Number each sample jar containing oil in a single sequence and take a photograph of each jar. Take a video (cell phone if necessary) of at least collection of oil into one jar from the source.

7) Collect source oil directly into the sample containers from the process piping sample point. Minimize (but do not eliminate) head space in each container allowing between ½" and ¼" headspace in the neck of each jar. Care should be taken not to contaminate the lid or the sample jars.

8) Place the lid firmly and securely on each jar. Wipe any excess oil from outside of sample jar using dry cloth or towel. Properly dispose of dry cloths or towels.

9) Wrap Teflon® tape tightly around edge and top of lid to seal the lid onto the jar. Place a chain-of-custody seal on each bottle. Completely fill out with a Sharpie the sample labels. Samples should be labeled following this convention:

> GOM001-A0521-O9901; GOM001-A0521-O9902, etc. (first six characters are location code, 2nd 5 characters are date code (A = 2010), "O" is for matrix (oil), 99 is sampling team, 01, 02, 03 is sample number. Place sample jars into original packing boxes.

10) If using glass jars, wrap each sample jar in bubble wrap to minimize the chance for breakage.

11) Samples are to be transported by helicopter or boat at ambient temperature until arrival at Port, at which time they must be transferred to coolers and iced to reduce temperature to 4 degrees C. Follow NRDA sample shipping instructions for processing samples into coolers for shipment. **Multiple helicopter trips may be required** to transport all samples.

12) At port prior to packing in coolers, transfer oil from one of the larger bottles into multiple VOA sample vials. Seal with Teflon® tape.

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12) Document sampling date(s), times(s), conditions, volumes, quantities, etc. on Chain of Custody forms. Transfer samples (on ice or refrigerated) to the Houma, LA Command Center for processing under the supervision of appropriate Trustees and shipment.

13) Unless instructed otherwise, B&B Laboratories will be the receiving laboratory for analytical and oil archive samples. However, samples for toxicity and a range of other purposes are anticipated. Fifty percent of the collected sample volume will be sent under BP/ENTRIX chain-of-custody and 50% will be sent under NOAA chain-of-custody. Record the distribution of all samples in a central record in addition to the individual chain-of-custody records.

4. Logistics

4.1. Houston Logistics will arrange transportation for the sampling personnel and sample containers, and the ENTRIX and NOAA representatives, if available and will coordinate with the appropriate vessel for the sampling activities.

4.2. The ENTRIX and Trustee approved sampling personnel will travel from Houma to the appropriate sampling vessel and will execute the sampling event, then return to Houma.

4.3. The ENTRIX and Trustee approved sampling personnel transfer the samples and documentation to the Houma Command Center.

4.4. Trustees in association with ENTRIX will prepare the final shipping packages and associated paperwork, and arrange shipping to the sample recipients

5. Contacts

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