



# PROJECT NEWSLETTER



## Status Summary

The Seadrill Sevan Louisiana is currently drilling the Mississippi Canyon 79 Subsea Well No. 1. After this well, the rig will move to another subsea manifold location. ETA remains late July.

Production Systems Engineering and Procurement activity is down to remaining Instrumentation and Electrical drawings, ongoing construction support and purchasing of spare parts.

Another major milestone was achieved this month at the Kiewit yard. The Delta House FPS hull was offloaded from the transport vessel and deck was mated to the hull. The integration occurred over three days and was executed flawlessly. Congratulations to everyone involved with this phase of the project. Great job!

Pipeline installation work has started offshore. Phase I installation of the 16" Gas Export Pipeline by the Technip GI200 is approximately 80% complete at the issue of this newsletter. Fabrication of the subsea systems components is nearing completion.

All of the mooring system suction piles have been installed. Pre-installation of the mooring lines is progressing.

The pace of construction offshore activity is increasing very rapidly.

## Drilling & Completions

The Seadrill Sevan Louisiana is in the Gulf of Mexico and has completed final systems commissioning. It has started drilling operations in MC block 79, just to the north of the Delta House wells. We anticipate this to take approximately 60 days. In late July, we will move on to drill and complete the third well at the MC 253 manifold location. Next, the Louisiana will move over to another well at the MC 253 manifold location and execute a second well completion. The Louisiana will wrap up its Delta House campaign with a drilling and completion of a third well in MC 300.

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Seadrill Sevan Louisiana

The Sevan West Neptune has started the component acceptance testing portion of its pre-delivery work scope and will go to sea trials on June 26th. On July 5th, we expect the rig to be back in the SHI shipyard for the final commissioning which should wrap up in early August. Rig delivery from the shipyard is expected by mid-August. The rig will arrive in the GOM with both BOP stacks onboard and one of the BOPs splash tested in Korea. After the GOM acceptance testing on the Malachite wellhead, the rig will start the Delta House completions in early to mid-December.

The West Neptune is currently scheduled to perform five consecutive subsea completions (including the MC 79 well pending a success by the Louisiana).



Rig Floor on the Seadrill West Neptune

## Production Systems Engineering

### **Engineering/Design:**

- Overall progress for Engineering Topsides through April is approximately 99% complete
- 100% of P&ID's have been issued Rev 0
- To date, approximately 4672 out of 4672 (100%) (Revised estimated total) have been issued
- Ongoing submittals / resolutions to DNV Comments
- Completed issuing Wiring and Instrument Location Plans
- Continuing Interfaces between Kiewit, Exmar, Pinnacle, and GATE
- Continued LOOP Diagrams
- Continuing Purchasing Spare Parts and Miscellaneous items
- Continued construction support
- Continued commissioning support

### **Procurement:**

- 113 Topsides Purchase Orders have been completed
- Change Orders for Spare Parts are ongoing

The hull was removed from the Dockwise ship, Treasure on Thursday, 5/29. Carryover work started as soon as shore power was connected to the hull.

Over the last month, piping work continued at all levels of the deck and equipment. All pipe spools were installed on the deck with the exception of the integration spools. All hydro testing was completed on Saturday, 6/14. About 30 test packages remain to be restored. All regulatory testing was completed on Monday, 6/9.

Electrical work continues, focusing mainly on Temporary Certificate of Inspection (TCOI) from DNV and the United States Coast Guard. This is necessary for the project to proceed offshore. Electrical cables continue to be pulled and terminated with the intension of completion of all work.

Instrumentation work continues, installing tubing in the tubing tray and connecting to equipment and panels throughout the deck. Once the hydro testing of a package is complete, the instruments are installed for commissioning. Again, the focus is on TCOI with the intension of finishing all the work.

Blasting and painting continues throughout the topside. Most of this is touch up work. The coatings department has spent much of the last few weeks washing down the topside for the lift and set. Insulators continue insulating piping and vessels on the deck.

Commissioning is walking down systems and equipment in preparation for final commissioning. Both mechanical, electrical, and instrument systems are being turned over to commissioning, again focusing on TCOI.

Structural work has primarily focused on preparation for loadout and integration. The temporary generator arrived onsite Monday, June 9; however, will not be installed until after integration of the deck and hull. The loadout barge work was completed and the barge moved into position for loadout. The deck was loaded onto the barge on Sunday, 6/15 and lifted with the Heavy Lifting Device (HLD) on Monday, 6/16. The deck was set on the hull on Tuesday, 6/17.



Hull being removed from Ship



Deck Loadout



Lifting the Deck



Setting of Deck on the Hull

## TOPSIDES

### **VK 817 Topsides**

- Facility permit has been submitted to Enterprise and is currently in review.
- Launcher & Receiver Skids (UPCS, Delivery: 7/31/14) – Fabrication is ongoing.
- PLC Panel (Omega, Delivery: 7/31/14) – Panel fabrication awarded to Omega.
- Boarding Shutdown Valves (Cameron, Delivery: 6/30/14) – Fabrication is ongoing.
- Offshore construction awarded to QCP.

## SUBSEA

### **Engineering & Regulatory**

- All permits have been approved for infield and export pipelines, umbilicals, and jumpers, with the exception of the North Satellite Well 6” pipeline and 4” umbilical (submitted 4/24/14), and two new well jumpers.

### **Pipeline & Riser**

- SCR Pipe – All SCR pipe is coated (except 6”, which is 26% complete), end bored and has begun to ship to spoolbase.
- Line Pipe – All line pipe is coated and has begun to ship.
- Titanium Stress Joints (2D/RTI, Delivery: 6/30/14) – TSJ titanium section welding is 92% complete. Fatigue testing and fabrication of steel flanges bushings is ongoing.
- VIV Strakes (AIMS) – Continued coating the 12” antifouling strakes. Continued manufacturing and inspection of the 6”, 8” and 16” strakes.

### **Manifolds, Jumpers and PLETs**

- Subsea Manifolds (Spitzer, Delivered: 5/10/14) – Most manifolds are complete. The North manifold will be completed in early June.
- PLETs – Fabrication at Omega is ongoing. First four 6” PLETs hydrotested in early May. SOB2 PLET and ILS are scheduled to hydrotest in late May.
- Jumper – Awarded jumper kit fabrication to New Industries, and began shipping Company supplied components

### **Subsea Distribution**

- Umbilical Fabrication (Duco, Delivery: 10/30/14) – Manufacture of umbilicals is in progress.
- Subsea Controls – Assembly and testing of SFL’s, UTH’s and HDU’s continues.

### **Pipeline & Riser Installation** (Technip, Completion: 11/1/14)

- At spoolbase, weld qualification continues, with 6” reeled line pipe stalking in progress. The MSV Iron Horse mobilized for second trip to install pre-crossings and LBL arrays, and mobilized for third trip to install additional crossing mats. The G1200 mobilized 5/30/14 to begin installation of 12” and 16” pipelines. The Deep Blue is expected to begin spooling up for Trip 1 around 6/21/14, then begin pipelay around 7/9/14 after completing their Lucius SCR install for another client.

### **Umbilical & Subsea Controls Installation**

- Received and commented on a revised combined proposal from Oceaneering.

### **Export Pipelines**

- Fabrication continues on the VK 817 risers, subsea tie-in assemblies and VK 859 net guard. Cameron has completed manufacturing and FAT on all subsea valves, with the exception of one 12” valve, which passed final pressure testing and is currently in final coating.



Tapered Stress Joint



VK 859 Net Guard

# Mooring & Installation

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## **Mooring:**

- Suction Pile fabrication is complete
- All 12 suction piles installed
- Mobilization underway for mooring preset installation

## **Installation and Hook-Up:**

- Harbor tow awarded to Signet Maritime
- Tow survey awarded to Fugro
- Tow plan and hook-up procedures being finalized

