



## Daily Report 11/20/13

### Tetra Tech

#### **Directive #1 – Indoor Air**

- Draft Concept Plan for phased approach to indoor air monitoring plus installation of alarm systems and ventilation systems was submitted to DNR on 12/13/12 for comments; the detailed Work Plan was submitted to DNR on 1/14/13 for comments.
- Installed a total of 98 detectors at 45 locations. No positive alarms have occurred to date for either % LEL or H2S.
- A total of ten monitoring pairs and associated transmitters have been provided to Assumption Parish, at their request.
- Continued monthly monitor calibration.
- Completed visual inspection and maintenance of the under slab ventilation systems. Liquids found in the systems were removed and transported to the TBC frac tank.

#### Plan for today:

- Continue monthly monitor calibration.
- Continue indoor air screening.
- Continue in-home air monitoring of TBC properties.
- Monitor ventilation systems.

#### **Directive #2 – Additional Relief Wells and Directive #3 – Overall Plan**

- Met with DNR/Shaw on 1/24/13; reached agreement on well designs.
- Radius of Influence (ROI) wells are installed at well pads ORW-5 & ORW-9.
- The field portion of ROI testing was completed July 21st. Report is being finalized.
- Continued H & S controls for work in the Sportsman's Drive area. Deployed RAE Systems area gas monitors to the ORW-50 location; continued monitoring the ORW-49 location. Set up an additional 100-ft exclusion zone at ORW-50. Relocated the wind sock to ORW-50. Monitored the ambient air in the drilling area and the exclusion zone with a 5-gas meter on a 15 minute cycle: no levels of H2S or LEL were registered.
- WHE completed ORW-49. No gas kicks were noted. Installed 3 lifts of grout totaling 290 gals to complete the well to the surface. Continuously monitored the perimeter breathing zone – no H2S or LEL detections were measured.
- Set up on ORW-50 with track-mounted sonic rig.
- Thompson Engineering inspected the grout placed at the CPT-120 location and removed excess grout. Performed a follow-up sweep of the CPT-120 area with the MSA gas meter: no detections.
- Thompson Engineering mobilized rig to CPT-99 on Sauce Piquante. Advanced borehole to a total depth of 126.81 feet. The cone was removed and the borehole was pressure grouted to the surface without incident. No detections were noted on the MSA gas meter.

- Faucheux swamp excavator cleared locations on the bayou for CPT-121, 122 & 123.
- Rock's Trucking crew relocated the board mats from ORW-40 to the ORW-50 location. Several mats were left at the ORW-49 site for use during well completion and connection.
- Installed meter run and Barton meter at ORW-49, completed piping connections, and opened system flow to the flare.

Plan for Today:

- WHE sonic track rig drill ORW-50; Tt continue H&S controls.
- WHE sonic truck rig continue well development at MRAA-04D.
- Thompson Engineering and Faucheux set up the CPT rig on the barge.
- Perform weekly site Stormwater Pollution Prevention Plan (SWPPP) inspection.

**Directive #4 – Operation of All Wells**

- Flares #2, #3, #4, #5, and #6 are operating. One additional flare, and a trailer-mounted backup flare, are available as needed. TBC Flare #1 will require insulation repair prior to being put into service.
- Well work overs are ongoing for all low-producing and non-flowing wells.
- Barton meters have been installed on flowing wells; performed routine maintenance.
- Performed daily flare operation and maintenance.
- Performed daily relief well operation and maintenance.
- Completed daily ORW well data collection.
- Installed the well head flange and the Grundfos electric pump in ORW-43.
- Dewatered ORW-10: removed 700 gallons, well head pressure at 21 psi.

Plan for Today:

- Complete daily flare, Barton meter, generator, and compressor operation and maintenance activities.
- Continue dewatering at ORW-10.

**Directive #5 – Sinkhole Containment**

- Submitted Joint Application to OCM and COE, which included sinkhole containment design and additional ORW wells, on 2/14/13.
- Initial containment of the sinkhole area was completed.
- A pre-construction meeting was held on-site on March 27th for TBC and contractors.
- Construction of the containment system began April 1st.
- The current configuration of the sinkhole containment system is completed.



- Inspected the berms surrounding the sinkhole. Noted several additional cracks in the south berm approximately 200 feet east of the junction of the south and west berms.
- Miller Engineers surveyed settlement plates.
- Rock's Trucking operated the Baker pumps.

#### Plan for Today

- Inspect berm.