



## Daily Report 02/10/14

### Tetra Tech

This report presents activities completed Friday (02/07/14) through Sunday (02/09/14), and activities planned for Monday (02/10/14).

#### **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.
- Removed one set of detectors from 123 Crawfish Stew. New installed totals: 90 sets at 41 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 daily monitor calibration.
- Completed visual inspection and maintenance of the under slab ventilation systems. Liquids found in the systems were removed and transported to the storage tank located at ORW-22.

Plan for today:

- Continue monitor calibration.
- Continue ventilation system operation, maintenance, and monitoring.

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

- 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 and ORW-9.
- The field portion of ROI testing was completed July 21st. Report is being finalized.
- WHE completed plugging ORW-7.
- Prepared meter run for ORW-57.
- Continued Pumping Test at ORW-38. After 23 hours of max rate pumping (12.6 GPM) total drawdown was 21.8 ft; no gas was generated. Completed 3-hour constant flow step tests at 1.0, 2.0, and 4.0 gallons per minute (GPM) under shut-in conditions; again, no gas was generated.
- WHE sonic crew grouted casing at ORW-58 to the surface; installed a temporary well head. Well head pressure: 50.5 psi.
- Rock's Trucking imported 122.16 tons of #4 limestone and placed it on the Triche road segment leading to ORW-56 & 55.
- WHE sonic crew advanced the casing at ORW-57 to a total depth of 155.5 ft bgs. Collected geologic core from 123 to 133 ft bgs and 133 to 143 ft bgs. Set casing and screen, installed filter pack and set bentonite seal.



- WHE overdrilled and abandoned GP-ORW-5.

Plan for today:

- Continue pump test of ORW-38. Plan to operate the pump at full capacity (~12.5 gpm) under shut-in conditions. If well head pressure develops above 30 psi, it will be flared initially at a low choke setting with increased choke settings, if sustainable.
- Continue ORW well installation and abandonment activities.

#### **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.
- Monitored pressure at PVW wells.
- Increased choke positions at ORW-46, 52, 54, and 55; decreased choke position at ORW-48.
- Installed meter run and Barton meter at ORW-58; completed gas piping connections to Flare 5. Tested all fittings for leaks. At start-up, the well had 50.0 psi well head pressure. After one hour of flowing, the well head pressure dropped to 35.0 psi. Shut-in the well overnight to see if it will build pressure.

Plan for today:

- Complete daily flare, Barton meter, generator, and compressor operation and maintenance activities.
- Continue well dewatering.
- Continue to initiate operation of ORW-58.

#### **Directive #5 – Sinkhole Containment**

- Submitted original sinkhole containment design in Joint Application to OCM and COE on 2/14/13.
- A pre-construction meeting for the original containment system was held on-site on 3/14/13 for TBC and contractors.
- Construction of the original sinkhole containment system began 4/1/13; construction was completed 9/23/13.

- During late October 2013 and mid-December 2013, cracks and a drop in elevation occurred along the southern levee of the original containment system. Increased seismic activity was also noted at these times.
- During the week of January 6th, 2014 a new Emergency Use Authorization was submitted and approved for constructing a new southern levee approximately 500 to 1300 feet south of the southern levee of the original containment system.
- Completed visual inspection of the existing containment levee.
- Measured surface elevations of water in the Bayou and inside the containment area using laser sight. Friday Bayou water elevation: 1.1 feet above mean sea level (AMSL); Friday Containment water elevation: 0.5 ft AMSL. Saturday Bayou water elevation: 1.0 ft AMSL; Saturday Containment water elevation: 0.5 ft AMSL. Elevation information from Sunday is forthcoming.

#### **New South Containment Levee**

- Construction of the new south containment levee began on 1/8/2014. Tree clearing for this new levee was completed January 15, 2014. The construction of the new south levee is anticipated to be completed in April 2014.
- Rock's Trucking further extended the new south containment levee from the existing west containment levee. Approximately 3245 linear feet of new southern containment levee has been completed to date.
- WHE track sonic rig mobilized to the inclinometer location on the new south berm (IPI-STR-01); advanced casing to a total depth of 85.0 ft bgs. Installed a 3-inch pvc casing & grouted the casing to the surface. Respec/Ardaman obtained five soil samples during the process

Plan for today:

- Rock's Trucking continue construction of the new south containment levee.