

Daily Report 11/25/13

Tetra Tech

This report covers the time period from 11/22/2013 to 11/24/2013.

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 monitoring.
- Continue in-home air monitoring of TBC properties.
- Continue ventilation system operation, maintenance, and monitoring.

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.
- Completed follow-up inspections of the CPT-120 & 99 locations with the MSA gas meter: no detections were measured.
- Thompson Engineering advanced borehole at CPT-122 to 112.65 ft bgs using barge-mounted CPT rig. Checked borehole with the MSA gas monitor after grouting: no detections measured.
- Inspected previously drilled CPT-121; gas bubbles were noted. After completing CPT-122, moved barge rig back over original borehole at CPT-121. Advanced cone through borehole to 101 ft bgs and then re grouted the bore to the mud line. At completion of re-grouting, no bubbles were visible and MSA gas meter showed no detections. Performed follow-up inspections of CPT-121 & 122 locations on both Saturday and Sunday: no bubbles were observed; MSA gas meter indicated no detections.
- Constructed ORW enclosures in Sportsman's Drive area.
- Completed post holes and constructed fences for ORW-49 and 50.

- Thompson Engineering CPT rig completed CPT-123; advanced the cone to 97.80'; encountered very hard material at 90'.
- The barge/CPT rig was moved back to shore and prepared for demobilization.

Plan for today:

- Follow-up monitoring at CPT-121, 122 and 123 locations.
- Build enclosure for ORW-49.
- Perform transducer downloads for all ORW's and PMW's.

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.
- Dewatered ORW-43. Average gpm: 3.0; starting well head pressure: 0.0 psi, ending: 14.0 psi; starting water level: 13.88', ending 22.46'; 1350 gallons removed.
- Remove 1/8" orifice plate and installed a 1/4" plate at ORW-49; adjusted the choke valve accordingly. Well head pressure: 43 psi; flow rate: 6.5 mcf.
- Following installation of the 4" master valve, assembled meter run fittings for ORW-50; installed the choke valve and Barton meter; re-installed the Level Troll transducer.
- ORW-50 opened to flare 5 at approximately 2:00 pm on Friday. Well head pressure: 38 psi; 1/8" orifice plate; 1.8 mcf.
- ORW-42 (PMW-12S): re-installed meter run and Barton meter. Opened well to Flare 2 overnight to lower pressure for conversion to pressure monitoring well (PMW) status on Saturday.
- WHE "killed" ORW-50, removed the existing well head, installed a 4" master valve and re-installed the well head.
- Cut and shortened HDPE water lines at ORW-49 & 50 to fit into the well enclosure area.
- Troubleshoot and repaired the thermocouple at Flare 2.
- Installed transducer at ORW-8.
- Depressurized ORW-50 by venting to flare; removed defective transducer; installed new transducer; reset well to normal flow position.

Plan for Today:



- Complete daily flare, Barton meter, generator, and compressor operation and maintenance activities.

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 berms surrounding the sinkhole.
- Miller Engineers surveyed settlement plates.
- Rock's Trucking operated the Baker pumps.
- Rock's Trucking completed repairs at guard shack.

Plan for Today

- Inspect berm.