



Texas Brine Company, LLC

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February 4, 2014

Commissioner James H. Welsh
P.O. Box 94275
Baton Rouge, LA 70804

RE: In response to State of Louisiana Department of Natural Resources Office of Conservation's Second Amendment to Declaration of Emergency and Directive

Commissioner Welsh,

In response to the Second Amendment and Declaration of Emergency and Directive order issued by the Louisiana Department of Natural Resources (LDNR), Office of Conservation on September 25, 2012, Texas Brine Company, LLC (TPC) understands the seven items listed in the document.

In the above mentioned, TBC was specifically directed and ordered to perform certain tasks outlined in the above mentioned document. Below are the required responses, as directed.

1. TBC's counsel provided LDNR legal counsel with a response to Directives 1-3 on September 28, 2012.
2. TBC understands Directive 4, which is to provide all daily logs and field notes from all contractors conducting investigation into subsidence and natural gas bubbling. The Daily Action Summary and results for current information can be found in the Attachment section of this report.
3. TBC understands Directive 5, which directs TBC to immediately allow for split or share any sample taken on site related to Well 3A (Serial Number 974265), the cavern, other wells facilities or other site locations. The Daily Action Summary of today's collection can be found in Attachment section of this report.
4. TBC understands Directive 6, which directs TBC to immediately report the results (final and preliminary) of any tests, logs samples or data collection performed on Well 3A, the cavern, other wells, facilities or site locations that indicate a change in any previously known conditions related to the investigation of the subsidence or natural gas bubbling

events, and continue to report any such results. The Daily Action Summary and the Results related to this Directive can be found in Attachment section of this report.

5. TBC understands the Directive 7, which states that TBC will provide a daily summary of all tests, or logs performed or samples taken from Well 3A and the cavern as well as any results of those tests or logs, including preliminary as of September 25, 2012 and going forward. The Daily Summary and Results related to this Directive can be found in Attachment section of this report.

Please note that the drilling rig used for the Observation Well 3A has been removed and the site is being rigged down and returned to pre-drilling condition. As such, daily drilling reports for this well have ceased. Plans are being made for longer term potential gas venting/flaring requirements and possible hydrocarbon material recover from Well 3A.

In addition, previous daily summary reports issued to LDNR have included significant duplicate information as there is a fair amount of overlap in the information requested in each of the Directives included in the September 25, 2012 order. All requested information associated with the Directives issued in the September 25, 2012 order are included in the Attachment section of this report.

TBC believes that the submittal of this report satisfies the requirements of the Declaration of Emergency and Directive issued on September 25, 2012. As directed this report is submitted by email to conservationorder@la.gov, ref. "Emergency Declaration-Texas Brine Company LLC-9/25/2012.



Bruce E. Martin

Vice President, Operations

Texas Brine Company, LLC

Summary Table for Daily Events

| TBC Oxy Grand Bayou Data Management-Environmental | | | | | | | | | | | | | | | |
|---|--|--|---|--|------------------|----|------------------|------------------|------------|--------|----|------------------|----|----|----|
| Contractor | Responsibilities | | Collected By | | Date Collected | | Delivered to Lab | Results from Lab | Laboratory | Method | | Date to Agencies | | | |
| Sage | Stationary Air Monitoring | | No Sage personnel onsite Britt Barnett (CodeRed) - 07:00 - 17:00 | | 2/3/2014 | | NA | NA | NA | NA | | 2/4/2014 | | | |
| | Residential Air Monitoring | | Sage has been requested to suspend bimonthly residential air monitoring. Therefore, Sage will discontinue these activities. | | NA | | NA | NA | NA | NA | | NA | | | |
| | Gas Seep Sampling | | No work performed | | 2/3/2014 | | NA | NA | NA | NA | | NA | | | |
| | Well Gas Sampling | | No work performed | | 2/3/2014 | | NA | NA | NA | NA | | NA | | | |
| | Under Slab Gas Sampling | | No work performed | | 2/3/2014 | | NA | NA | NA | NA | | NA | | | |
| | Indoor Air Monitoring | | No work performed | | 2/3/2014 | | NA | NA | NA | NA | | NA | | | |
| Respec | Inclinometers/Tilt Meters/Transducers | | 2/3/2014 | Check wheel alignment on inclinometer at IPI-STR-02. | Eric Krantz | | | | | | NA | | NA | NA | |
| | InSAR Reflector Installations | | 2/3/2014 | No work Conducted | NA | NA | NA | NA | NA | NA | NA | | NA | NA | |
| | Subsidence Survey-Fenstermaker | | 2/3/2014 | No work Conducted | NA | NA | NA | NA | NA | NA | NA | | NA | NA | |
| | Shallow Geophone Installation | | 2/3/2014 | No work Conducted | NA | NA | NA | NA | NA | NA | NA | | NA | NA | |
| | Deep Geophone Installation | | 2/3/2014 | No work Conducted | NA | NA | NA | NA | NA | NA | NA | | NA | NA | |
| | Amendment #3, Directive #2 | | 2/3/2014 | No work Conducted | NA | NA | NA | NA | NA | NA | NA | | NA | NA | |
| | Expansion of geoprobe gas sampling locations | | 2/3/2014 | No work Conducted | NA | NA | NA | NA | NA | NA | NA | | NA | NA | |
| | DPVE | | 2/3/2014 | No work Conducted | NA | NA | NA | NA | NA | NA | NA | | NA | NA | |
| | Abandon Casing Survey | | 2/3/2014 | No work Conducted | NA | NA | NA | NA | NA | NA | NA | | NA | NA | |
| | Passive Vent Wells | | 2/3/2014 | Monitor all PVW sites for pressure and flow. Install logger at GP-6. | Eric Krantz | | | | | | | NA | | NA | NA |
| | MIHPT | | 2/3/2014 | No work Conducted | NA | NA | NA | NA | NA | NA | NA | | NA | NA | |
| Miller | Weekly Stability Survey | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| | Misc. Survey Work | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| Pisani | Sinkhole Hydro/Perimeter Survey | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| | Surface Water | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| | Sinkhole | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| | Industrial Well Water | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| | MRAA Well Water | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| | GP/ORW Water | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| | Cavern Water | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| | Discharge/Outfall Water | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| | Geoprobe Wells | | NA | | February 3, 2014 | | NA | NA | NA | NA | | NA | | NA | |
| Grand Bayou Well 3A | | | | | | | | | | | | | | | |
| Daily Operations at 3A | | | Summary of Today's events | | | | | | | | | | | | |
| | | | Oxy 3A | | | | | | | | | | | | |
| 2/4/2014 | | | 7:00am | 1121.25 | 2/4/2014 | | | | | | | | | | |
| 2/4/2014 | | | Relief Well #1 | | | | | | | | | | | | |
| | | | See ORW-01 Flare Spreadsheet (will be provided 1/2/14) | | | | | | | | | | | | |

Attachments

Daily Action Summary

February 3, 2014

Sinkhole Perimeter Air Monitoring and Neighborhood Air Monitoring

- The following locations are equipped with solar-powered weather boxes: Pad #9, TR-1a, ORW-11a, ORW-9a, ORW-5, PVW-02, and PVW-BS-56a. And, the following locations are equipped with electrical power: ORW-49-WH and ORW-50-WH. Thus, daily monitor change-out is no longer necessary for these locations. All monitors will continue to be calibrated and serviced as necessary.
- No Sage personnel onsite.
- Britt Barnett of Code Red (monitor sub-contractor) onsite from 07:00 – 17:00. Assisted in maintenance of the monitoring equipment as necessary.

Residential Air Monitoring

- Sage has been requested to suspend bimonthly residential air monitoring. Therefore, Sage will discontinue these activities. The last event was conducted on March 26, 2013.

Gas Seep Sampling

- Not Scheduled

Well Gas Sampling

- Not Scheduled

Under Slab Gas Sampling

- Not Scheduled

Air Indoor Monitoring

- Not Scheduled

Texas Brine - Belle Rose, Louisiana
Hourly Air Monitoring Data
Neighborhood Monitoring

*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

| | Observation Relief Well -49 at the Well Head | | | Observation Relief Well - 50 at the Well Head | | | Passive Vent Well -56 | | | Passive Vent Well - 03 | | | Passive Vent Well - 02 | | |
|------------------------|--|---------|--------|---|---------|--------|-----------------------|---------|--------|------------------------|---------|--------|------------------------|---------|--------|
| | ORW-49-WH | | | ORW-50-WH | | | PVW-BS-56a | | | PVW-03 | | | PVW-02 | | |
| Date-Time * | H2S (ppm) | LEL (%) | O2 (%) | H2S (ppm) | LEL (%) | O2 (%) | H2S (ppm) | LEL (%) | O2 (%) | H2S (ppm) | LEL (%) | O2 (%) | H2S (ppm) | LEL (%) | O2 (%) |
| 02/03/2014 01:00:00 AM | 0.0 | 0.0 | 21.3 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 02:00:00 AM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 03:00:00 AM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 04:00:00 AM | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 05:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 06:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 07:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 08:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 09:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 10:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 11:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 12:00:00 PM | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 01:00:00 PM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 02:00:00 PM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 03:00:00 PM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 20.6 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 04:00:00 PM | 0.0 | 0.0 | 21.3 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 21.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 05:00:00 PM | 0.0 | 0.0 | 21.6 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.7 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 06:00:00 PM | 0.0 | 0.0 | 21.5 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.1 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 07:00:00 PM | 0.0 | 0.0 | 21.4 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 08:00:00 PM | 0.0 | 0.0 | 21.3 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 09:00:00 PM | 0.0 | 0.0 | 21.3 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 10:00:00 PM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 11:00:00 PM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/04/2014 12:00:00 AM | 0.0 | 0.0 | 21.1 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |

Notes:

Texas Brine - Belle Rose, Louisiana

Hourly Air Monitoring Data

Sinkhole Perimeter Monitoring

*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

| | Observation Relief Well -5 | | | | | Observation Relief Well - 9 | | | | | Observation Relief Well -11 | | | | | South of OG3A-1 | | | | | Onsite Trailers | | | | |
|------------------------|----------------------------|-----------------------|-----------|---------|--------|-----------------------------|-----------------------|-----------|---------|--------|-----------------------------|-----------------------|-----------|---------|--------|-----------------|-----------------------|-----------|---------|--------|-----------------|-----------------------|-----------|---------|--------|
| | ORW-5 | | | | | ORW-9a | | | | | ORW-11a | | | | | Pad #9 | | | | | TR-1a | | | | |
| Date-Time * | CO (ppm) | Non-Methane VOC (ppm) | H2S (ppm) | LEL (%) | O2 (%) | CO (ppm) | Non-Methane VOC (ppm) | H2S (ppm) | LEL (%) | O2 (%) | CO (ppm) | Non-Methane VOC (ppm) | H2S (ppm) | LEL (%) | O2 (%) | SO2 (ppm) | Non-Methane VOC (ppm) | H2S (ppm) | LEL (%) | O2 (%) | CO (ppm) | Non-Methane VOC (ppm) | H2S (ppm) | LEL (%) | O2 (%) |
| 02/03/2014 01:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 21.1 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 02:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 03:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 04:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 05:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 06:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 07:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 08:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.7 |
| 02/03/2014 09:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.8 |
| 02/03/2014 10:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 11:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 12:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 01:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 02:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 03:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 04:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 05:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 06:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 07:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 08:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 21.1 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 09:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 10:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 11:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/04/2014 12:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |

Notes:

Texas Brine - Belle Rose, Louisiana
Hourly Air Monitoring Data
Neighborhood Monitoring

*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

| | Observation Relief Well -49 at the Well Head | | | Observation Relief Well - 50 at the Well Head | | | Passive Vent Well -56 | | | Passive Vent Well - 03 | | | Passive Vent Well - 02 | | |
|------------------------|--|---------|--------|---|---------|--------|-----------------------|---------|--------|------------------------|---------|--------|------------------------|---------|--------|
| | ORW-49-WH | | | ORW-50-WH | | | PVW-BS-56a | | | PVW-03 | | | PVW-02 | | |
| Date-Time * | H2S (ppm) | LEL (%) | O2 (%) | H2S (ppm) | LEL (%) | O2 (%) | H2S (ppm) | LEL (%) | O2 (%) | H2S (ppm) | LEL (%) | O2 (%) | H2S (ppm) | LEL (%) | O2 (%) |
| 02/03/2014 05:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 06:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 07:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 08:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 09:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 10:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 11:00:00 AM | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 12:00:00 PM | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 01:00:00 PM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 02:00:00 PM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 03:00:00 PM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | 0.0 | 0.0 | 20.6 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 04:00:00 PM | 0.0 | 0.0 | 21.3 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 21.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 05:00:00 PM | 0.0 | 0.0 | 21.6 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.7 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 06:00:00 PM | 0.0 | 0.0 | 21.5 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.1 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 07:00:00 PM | 0.0 | 0.0 | 21.4 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 08:00:00 PM | 0.0 | 0.0 | 21.3 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 09:00:00 PM | 0.0 | 0.0 | 21.3 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 10:00:00 PM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/03/2014 11:00:00 PM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/04/2014 12:00:00 AM | 0.0 | 0.0 | 21.1 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/04/2014 01:00:00 AM | 0.0 | 0.0 | 21.1 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/04/2014 02:00:00 AM | 0.0 | 0.0 | 21.1 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/04/2014 03:00:00 AM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/04/2014 04:00:00 AM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |
| 02/04/2014 05:00:00 AM | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 21.0 | <1.0 | 0.0 | 20.0 | 0.0 | 0.0 | 21.0 |

Notes:

Texas Brine - Belle Rose, Louisiana

Hourly Air Monitoring Data

Sinkhole Perimeter Monitoring

*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

| | Observation Relief Well -5 | | | | | Observation Relief Well - 9 | | | | | Observation Relief Well -11 | | | | | South of OG3A-1 | | | | | Onsite Trailers | | | | |
|------------------------|----------------------------|-----------------------|-----------|---------|--------|-----------------------------|-----------------------|-----------|---------|--------|-----------------------------|-----------------------|-----------|---------|--------|-----------------|-----------------------|-----------|---------|--------|-----------------|-----------------------|-----------|---------|--------|
| | ORW-5 | | | | | ORW-9a | | | | | ORW-11a | | | | | Pad #9 | | | | | TR-1a | | | | |
| Date-Time * | CO (ppm) | Non-Methane VOC (ppm) | H2S (ppm) | LEL (%) | O2 (%) | CO (ppm) | Non-Methane VOC (ppm) | H2S (ppm) | LEL (%) | O2 (%) | CO (ppm) | Non-Methane VOC (ppm) | H2S (ppm) | LEL (%) | O2 (%) | SO2 (ppm) | Non-Methane VOC (ppm) | H2S (ppm) | LEL (%) | O2 (%) | CO (ppm) | Non-Methane VOC (ppm) | H2S (ppm) | LEL (%) | O2 (%) |
| 02/03/2014 05:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 06:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 07:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 08:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.7 |
| 02/03/2014 09:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.8 |
| 02/03/2014 10:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 11:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 12:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 01:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 02:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 03:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 04:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 05:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 06:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 |
| 02/03/2014 07:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 21.2 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 08:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | <1.0 | 0.0 | 0.0 | 21.1 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 09:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 10:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/03/2014 11:00:00 PM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/04/2014 12:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/04/2014 01:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/04/2014 02:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/04/2014 03:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | <1.0 | 0.0 | 20.9 |
| 02/04/2014 04:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |
| 02/04/2014 05:00:00 AM | 0.0 | <1.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 | 0.0 | 20.9 | <1.0 | <1.0 | 0.0 | 0.0 | 20.9 | <1.0 | 0.0 | <1.0 | 0.0 | 20.9 |

Notes:

RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Crystal Hocking

Date: 2/03/2014

Company: RESPEC

Job #: 2241

| Personnel | Company | Job Title |
|--------------|---------|----------------|
| Eric Krantz | RESPEC | Staff Engineer |
| Nick Marnach | RESPEC | Staff Engineer |

Time Onsite: Start Time: 13:00 End Time: 18:00

DAILY ACTIVITY:

Attended onsite contractor and safety meeting.

Instrumentation Program:

Pull inclinometer string out at IPI-STR-02 for wheel alignment check. Reinstall 14-array inclinometer. Configure Loggernet software on VDV server for IPI-STR-02.

Other Programs:

Passive Vent Wells: RESPEC visited all PVW sites to monitor pressure and flow. Download all Track-It data loggers (NSDMW-006, GP-5, GP-37-1, GP-37-2, NSDMW-017, GP-22-3, GP-22-1). Install Track-It logger at GP-6.

PROPOSED SCHEDULE:

Instrumentation Program:

No onsite work planned Tuesday 2/4/14. Drilling oversight, casing installation, and instrumentation installation at IPI-STR-01 pending berm and pad construction.

Other Programs:

Passive Vent Wells: Install well risers at DPVE-22, DPVE-37, and associated monitor wells. Develop wells PVW-02 and GP-6 (pending weather).

Initials: CMH