



# Texas Brine Company, LLC

1301 Highway 70  
Belle Rose, LA 70341  
Phone: 985-369-6657  
Fax: 985-369-7873



February 3, 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](mailto: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, Roxana Dubose (CodeRed) - 07:00 - 17:00; No Sage personnel onsite, Roxana Dubose (CodeRed) - 07:00 - 14:00; No Sage personnel onsite, Roxana Dubose (CodeRed) - 06:30 - 13:30	1/31 - 2/2/2014	NA	NA	NA	NA	2/1- 2/3/2014
	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	1/31 - 2/2/2014	NA	NA	NA	NA	NA
	Well Gas Sampling	No work performed	1/31 - 2/2/2014	NA	NA	NA	NA	NA
	Under Slab Gas Sampling	No work performed	1/31 - 2/2/2014	NA	NA	NA	NA	NA
	Indoor Air Monitoring	No work performed	1/31 - 2/2/2014	NA	NA	NA	NA	NA
Respec	Inclinometers/Tilt Meters/Transducers	Inclinometer rod and housing assembly. / Install and set up array inclinometer at IPI-STR-02.	Eric Krantz Nich Marnach	NA	NA	NA	NA	NA
	InSAR Reflector Installations	No work Conducted	NA	NA	NA	NA	NA	NA
	Subsidence Survey-Fenstermaker	No work Conducted	NA	NA	NA	NA	NA	NA
	Shallow Geophone Installation	No work Conducted	NA	NA	NA	NA	NA	NA
	Deep Geophone Installation	No work Conducted	NA	NA	NA	NA	NA	NA
	Amendment #3, Directive #2	No work Conducted	NA	NA	NA	NA	NA	NA
	Expansion of geoprobe gas sampling locations	No work Conducted	NA	NA	NA	NA	NA	NA
	DPVE	No work Conducted	NA	NA	NA	NA	NA	NA
	Abandon Casing Survey	No work Conducted	NA	NA	NA	NA	NA	NA
	Passive Vent Wells	Monitor all PVW sites and close in wells to test pressure build-up. / Monitor all PVW sites for pressure and flow	Eric Krantz Nich Marnach	NA	NA	NA	NA	NA
MIHPT	No work Conducted	NA	NA	NA	NA	NA	NA	
Miller	Weekly Stability Survey	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
	Misc. Survey Work	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
	Sinkhole Hydro/Perimeter Survey	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
Pisani	Surface Water	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
	Sinkhole	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
	Industrial Well Water	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
	MRAA Well Water	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
	GP/ORW Water	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
	Cavern Water	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
	Discharge/Outfall Water	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
	Geoprobe Wells	NA	1/31-2/2/2014	NA	NA	NA	NA	NA
	Grand Bayou Well 3A							
Daily Operations at 3A		Summary of Today's events Oxy 3A						
2/1 - 2/3/2014	7am	1114.92	2/1/2014					
	7am	1120.78	2/2/2014					
	7am	1121.48	2/3/2014					
2/1 - 2/3/2014	Relief Well #1							
	See ORW-01 Flare Spreadsheet							

## **Attachments**

## **Daily Action Summary**

**January 31, 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.
- Roxana Dubose of Code Red (monitor sub-contractor) onsite from 07:00 to 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)

Date-Time *	Observation Relief Well -49 at the Well Head ORW-49-WH			Observation Relief Well - 50 at the Well Head ORW-50-WH			Passive Vent Well -56 PVW-BS-56a			Passive Vent Well - 03 PVW-03			Passive Vent Well - 02 PVW-02		
	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
01/31/2014 01:00:00 AM	<1.0	0.0	20.7	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 02:00:00 AM	<1.0	0.0	20.5	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0
01/31/2014 03:00:00 AM	<1.0	0.0	20.5	0.0	0.0	20.8	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 04:00:00 AM	<1.0	0.0	20.5	0.0	0.0	20.6	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0
01/31/2014 05:00:00 AM	<1.0	0.0	20.6	0.0	0.0	20.7	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 06:00:00 AM	<1.0	0.0	20.6	0.0	0.0	20.8	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 07:00:00 AM	<1.0	0.0	20.6	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 08:00:00 AM	<1.0	0.0	20.6	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 09:00:00 AM	<1.0	0.0	20.6	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 10:00:00 AM	<1.0	0.0	20.8	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 11:00:00 AM	0.0	0.0	21.1	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 12:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 01:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 02:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 03:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 04:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 05:00:00 PM	0.0	0.0	21.5	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 06:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 07:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 08:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 09:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 10:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 11:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 12:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	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)

Date-Time *	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				
	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 (%)
01/31/2014 01:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/31/2014 02:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/31/2014 03:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.8
01/31/2014 04:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.6
01/31/2014 05:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.7
01/31/2014 06:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.6
01/31/2014 07:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.6
01/31/2014 08:00:00 AM	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	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.7
01/31/2014 09:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.6	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/31/2014 10:00:00 AM	0.0	0.0	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	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/31/2014 11:00:00 AM	0.0	0.0	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	0.0	0.0	0.0	20.9
01/31/2014 12:00:00 PM	0.0	0.0	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	0.0	0.0	0.0	20.9
01/31/2014 01:00:00 PM	0.0	0.0	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	0.0	0.0	0.0	20.9
01/31/2014 02:00:00 PM	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
01/31/2014 03:00:00 PM	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
01/31/2014 04:00:00 PM	0.0	<1.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.2	0.0	<1.0	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
01/31/2014 05:00:00 PM	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/31/2014 06:00:00 PM	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.3	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
01/31/2014 07:00:00 PM	0.0	0.0	0.0	0.0	21.1	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	0.0	<1.0	0.0	0.0	20.9
01/31/2014 08:00:00 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	0.0	<1.0	0.0	0.0	20.9
01/31/2014 09:00:00 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	0.0	<1.0	0.0	0.0	20.9
01/31/2014 10:00:00 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	0.0	<1.0	0.0	0.0	20.9
01/31/2014 11:00:00 PM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	<1.0	0.0	0.0	20.9
02/01/2014 12:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	<1.0	0.0	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)

Date-Time *	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		
	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
01/31/2014 05:00:00 AM	<1.0	0.0	20.6	0.0	0.0	20.7	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 06:00:00 AM	<1.0	0.0	20.6	0.0	0.0	20.8	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 07:00:00 AM	<1.0	0.0	20.6	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 08:00:00 AM	<1.0	0.0	20.6	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 09:00:00 AM	<1.0	0.0	20.6	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 10:00:00 AM	<1.0	0.0	20.8	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 11:00:00 AM	0.0	0.0	21.1	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 12:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 01:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 02:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 03:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 04:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 05:00:00 PM	0.0	0.0	21.5	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 06:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 07:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 08:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 09:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 10:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
01/31/2014 11:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 12:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 01:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 02:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 03:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
02/01/2014 04:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 05:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	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)

Date-Time *	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				
	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 (%)
01/31/2014 05:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.7
01/31/2014 06:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.6
01/31/2014 07:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.6
01/31/2014 08:00:00 AM	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	20.5	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.7
01/31/2014 09:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.6	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/31/2014 10:00:00 AM	0.0	0.0	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	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/31/2014 11:00:00 AM	0.0	0.0	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	0.0	0.0	0.0	20.9
01/31/2014 12:00:00 PM	0.0	0.0	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	0.0	0.0	0.0	20.9
01/31/2014 01:00:00 PM	0.0	0.0	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	0.0	0.0	0.0	20.9
01/31/2014 02:00:00 PM	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
01/31/2014 03:00:00 PM	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
01/31/2014 04:00:00 PM	0.0	<1.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.2	0.0	<1.0	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
01/31/2014 05:00:00 PM	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/31/2014 06:00:00 PM	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.3	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
01/31/2014 07:00:00 PM	0.0	0.0	0.0	0.0	21.1	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	0.0	<1.0	0.0	0.0	20.9
01/31/2014 08:00:00 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	0.0	<1.0	0.0	0.0	20.9
01/31/2014 09:00:00 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	0.0	<1.0	0.0	0.0	20.9
01/31/2014 10:00:00 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	0.0	<1.0	0.0	0.0	20.9
01/31/2014 11:00:00 PM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	<1.0	0.0	0.0	20.9
02/01/2014 12:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	<1.0	0.0	0.0	20.9
02/01/2014 01:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	<1.0	0.0	0.0	20.9
02/01/2014 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	0.0	<1.0	0.0	0.0	20.9
02/01/2014 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
02/01/2014 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
02/01/2014 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

Notes:

## **Daily Action Summary**

**February 1, 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.
- Roxana Dubose of Code Red (monitor sub-contractor) onsite from 07:00 to 14:00. 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)

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

Date-Time *	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				
	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 (%)
02/01/2014 01:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	<1.0	0.0	0.0	20.9
02/01/2014 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	0.0	<1.0	0.0	0.0	20.9
02/01/2014 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
02/01/2014 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
02/01/2014 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
02/01/2014 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
02/01/2014 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
02/01/2014 08:00:00 AM	0.0	0.0	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	0.0	<1.0	0.0	0.0	20.9
02/01/2014 09:00:00 AM	0.0	0.0	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	0.0	<1.0	0.0	0.0	20.9
02/01/2014 10:00:00 AM	0.0	0.0	0.0	0.0	21.2	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 11:00:00 AM	0.0	0.0	0.0	0.0	21.3	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 12:00:00 PM	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/01/2014 01:00:00 PM	0.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/01/2014 02:00:00 PM	0.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/01/2014 03:00:00 PM	0.0	0.0	0.0	0.0	21.3	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 04:00:00 PM	0.0	0.0	0.0	0.0	21.3	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 05:00:00 PM	0.0	<1.0	0.0	0.0	21.3	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 06:00:00 PM	0.0	<1.0	0.0	0.0	21.2	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 07:00:00 PM	0.0	<1.0	0.0	0.0	21.1	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 08:00:00 PM	0.0	<1.0	0.0	0.0	21.1	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 09:00:00 PM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 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	0.0	0.0	0.0	0.0	20.9
02/01/2014 11:00:00 PM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 12:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	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)

Date-Time *	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		
	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/01/2014 05:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 06:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 07:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 08:00:00 AM	0.0	0.0	21.0	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 09:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	<1.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 10:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 11:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 12:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 01:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 02:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0
02/01/2014 03:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
02/01/2014 04:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
02/01/2014 05:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
02/01/2014 06:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
02/01/2014 07:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
02/01/2014 08:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
02/01/2014 09:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
02/01/2014 10:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
02/01/2014 11:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
02/02/2014 12:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 01:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 02:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.9	0.0	0.0	20.9
02/02/2014 03:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.9	0.0	0.0	20.9
02/02/2014 04:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 05:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	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)

Date-Time *	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				
	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 (%)
02/01/2014 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
02/01/2014 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
02/01/2014 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
02/01/2014 08:00:00 AM	0.0	0.0	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	0.0	<1.0	0.0	0.0	20.9
02/01/2014 09:00:00 AM	0.0	0.0	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	20.8	0.0	<1.0	0.0	0.0	20.9
02/01/2014 10:00:00 AM	0.0	0.0	0.0	0.0	21.2	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 11:00:00 AM	0.0	0.0	0.0	0.0	21.3	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 12:00:00 PM	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/01/2014 01:00:00 PM	0.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/01/2014 02:00:00 PM	0.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/01/2014 03:00:00 PM	0.0	0.0	0.0	0.0	21.3	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 04:00:00 PM	0.0	0.0	0.0	0.0	21.3	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 05:00:00 PM	0.0	<1.0	0.0	0.0	21.3	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 06:00:00 PM	0.0	<1.0	0.0	0.0	21.2	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 07:00:00 PM	0.0	<1.0	0.0	0.0	21.1	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 08:00:00 PM	0.0	<1.0	0.0	0.0	21.1	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 09:00:00 PM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/01/2014 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	0.0	0.0	0.0	0.0	20.9
02/01/2014 11:00:00 PM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 12:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 01:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 02:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 03:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	<1.0	0.0	0.0	20.9
02/02/2014 04:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 05:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9

Notes:

## **Daily Action Summary**

**February 2, 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.
- Roxana Dubose of Code Red (monitor sub-contractor) onsite from 06:30 to 13:30. 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)

Date-Time *	Observation Relief Well -49 at the Well Head ORW-49-WH			Observation Relief Well - 50 at the Well Head ORW-50-WH			Passive Vent Well -56 PVW-BS-56a			Passive Vent Well - 03 PVW-03			Passive Vent Well - 02 PVW-02		
	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/02/2014 01:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 02:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.9	0.0	0.0	20.9
02/02/2014 03:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.9	0.0	0.0	20.9
02/02/2014 04:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 05:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 06:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 07:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 08:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 09:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 10:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.3	0.0	0.0	21.0
02/02/2014 11:00:00 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
02/02/2014 12:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.0	0.0	0.0	21.0
02/02/2014 01:00:00 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
02/02/2014 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
02/02/2014 03:00:00 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
02/02/2014 04:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.0	0.0	0.0	21.0
02/02/2014 05:00:00 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
02/02/2014 06:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.0	0.0	0.0	21.0
02/02/2014 07:00:00 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
02/02/2014 08:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.0	0.0	0.0	21.0
02/02/2014 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
02/02/2014 10:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.9	0.0	0.0	21.0
02/02/2014 11:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.5	0.0	0.0	21.0
02/03/2014 12:00:00 AM	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

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)

Date-Time *	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				
	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 (%)
02/02/2014 01:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 02:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 03:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	<1.0	0.0	0.0	20.9
02/02/2014 04:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 05:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 06:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 07:00:00 AM	0.0	0.0	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	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	0.0	0.0	0.0	20.9
02/02/2014 01:00:00 PM	0.0	0.0	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	0.0	0.0	0.0	20.9
02/02/2014 02:00:00 PM	0.0	0.0	0.0	0.0	21.0	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	0.0	0.0	0.0	20.9
02/02/2014 03:00:00 PM	0.0	0.0	0.0	0.0	21.1	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 04:00:00 PM	0.0	<1.0	0.0	0.0	21.2	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	0.0	0.0	0.0	20.9
02/02/2014 05:00:00 PM	0.0	<1.0	0.0	0.0	21.1	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 06:00:00 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	0.0	0.0	0.0	0.0	20.9
02/02/2014 07:00:00 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	0.0	0.0	0.0	0.0	20.9
02/02/2014 08:00:00 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	0.0	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/02/2014 10:00:00 PM	0.0	<1.0	0.0	0.0	21.1	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	0.0	<1.0	0.0	0.0	20.9
02/02/2014 11:00:00 PM	0.0	<1.0	0.0	0.0	21.1	0.0	0.0	0.0	0.0	21.3	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 AM	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	0.0	<1.0	0.0	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)

Date-Time *	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		
	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/02/2014 05:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 06:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 07:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 08:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 09:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/02/2014 10:00:00 AM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.3	0.0	0.0	21.0
02/02/2014 11:00:00 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
02/02/2014 12:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.0	0.0	0.0	21.0
02/02/2014 01:00:00 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
02/02/2014 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
02/02/2014 03:00:00 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
02/02/2014 04:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.0	0.0	0.0	21.0
02/02/2014 05:00:00 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
02/02/2014 06:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.0	0.0	0.0	21.0
02/02/2014 07:00:00 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
02/02/2014 08:00:00 PM	0.0	0.0	21.3	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.0	0.0	0.0	21.0
02/02/2014 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
02/02/2014 10:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.9	0.0	0.0	21.0
02/02/2014 11:00:00 PM	0.0	0.0	21.4	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.5	0.0	0.0	21.0
02/03/2014 12:00:00 AM	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 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

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)

Date-Time *	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				
	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 (%)
02/02/2014 05:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 06:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 07:00:00 AM	0.0	0.0	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	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	0.0	0.0	0.0	20.9
02/02/2014 01:00:00 PM	0.0	0.0	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	0.0	0.0	0.0	20.9
02/02/2014 02:00:00 PM	0.0	0.0	0.0	0.0	21.0	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	0.0	0.0	0.0	20.9
02/02/2014 03:00:00 PM	0.0	0.0	0.0	0.0	21.1	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 04:00:00 PM	0.0	<1.0	0.0	0.0	21.2	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	0.0	0.0	0.0	20.9
02/02/2014 05:00:00 PM	0.0	<1.0	0.0	0.0	21.1	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	0.0	0.0	0.0	0.0	20.9
02/02/2014 06:00:00 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	0.0	0.0	0.0	0.0	20.9
02/02/2014 07:00:00 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	0.0	0.0	0.0	0.0	20.9
02/02/2014 08:00:00 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	0.0	0.0	0.0	0.0	20.9
02/02/2014 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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/02/2014 10:00:00 PM	0.0	<1.0	0.0	0.0	21.1	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	0.0	<1.0	0.0	0.0	20.9
02/02/2014 11:00:00 PM	0.0	<1.0	0.0	0.0	21.1	0.0	0.0	0.0	0.0	21.3	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 AM	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	0.0	<1.0	0.0	0.0	20.9
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

Notes:

**RESPEC Consulting & Services**

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Crystal Hocking

Date: 1/31/2014

Company: RESPEC

Job #: 2241

<b>Personnel</b>	<b>Company</b>	<b>Job Title</b>
Eric Krantz	RESPEC	Staff Engineer

**Time Onsite:** Start Time: 16:30 End Time: 17:30

**DAILY ACTIVITY:**

Attended onsite contractor and safety meeting. Nick Marnach arrived on site.

**Instrumentation Program:**

Received rods for inclinometers; finished build of housing and instrumentation for IPI-STR-02.

**Other Programs:**

*Passive Vent Wells:* RESPEC measured flow at all PVW sites; no flow was detected. Wells were closed in to test for pressure buildup.

**PROPOSED SCHEDULE:**

**Instrumentation Program:**

Drilling oversight, casing installation, and instrumentation installation at IPI-STR-01 pending berm and pad construction.

**Other Programs:**

*Passive Vent Wells:* Read flow rate at PVW wells. Install Track-It logger on GP-6. Install well risers at DPVE-22, DPVE-37, and associated monitor wells. Develop wells PVW-02 and GP-6 (pending weather).

Initials: CMH

**RESPEC Consulting & Services**

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Crystal Hocking

Date: 2/01/2014

Company: RESPEC

Job #: 2241

<b>Personnel</b>	<b>Company</b>	<b>Job Title</b>
Eric Krantz	RESPEC	Staff Engineer
Nick Marnach	RESPEC	Staff Engineer

**Time Onsite:** Start Time: 6:30 End Time: 18:00

**DAILY ACTIVITY:**

**Instrumentation Program:**

Install 14-array inclinometer system at IPI-STR-02. QA/QC instrumentation and connect remotely to update system program. Check valves.

**Other Programs:**

*Passive Vent Wells:* RESPEC visited all PVW sites to monitor pressure. PVW-03 had pressure of 3 psi which quickly diminished to 0 once flow meter was opened. No pressure or flow was observed at other PVWs.

**PROPOSED SCHEDULE:**

**Instrumentation Program:**

Pull instrumentation string at IPI-STR-02 to check bottom wheel alignment at sensors 120' and 130'; reinstall instrumentation. Drilling oversight, casing installation, and instrumentation installation at IPI-STR-01 pending berm and pad construction.

**Other Programs:**

*Passive Vent Wells:* Download Track-It data loggers. Install Track-It logger on GP-6. Visit all PVWs to record flow. Install well risers at DPVE-22, DPVE-37, and associated monitor wells. Develop wells PVW-02 and GP-6 (pending weather).

Initials: CMH

**RESPEC Consulting & Services**

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Crystal Hocking

Date: 2/02/2014

Company: RESPEC

Job #: 2241

<b>Personnel</b>	<b>Company</b>	<b>Job Title</b>
Eric Krantz	RESPEC	Staff Engineer
Nick Marnach	RESPEC	Staff Engineer

**Time Onsite:** Start Time: NA End Time: NA

**DAILY ACTIVITY:**

**Instrumentation Program:**

No Field Work Conducted.

**Other Programs:**

*Passive Vent Wells:* No work conducted by RESPEC.

**PROPOSED SCHEDULE:**

**Instrumentation Program:**

Pull instrumentation string at IPI-STR-02 to check bottom wheel alignment at sensors 120' and 130'; reinstall instrumentation. Drilling oversight, casing installation, and instrumentation installation at IPI-STR-01 pending berm and pad construction.

**Other Programs:**

*Passive Vent Wells:* Download Track-It data loggers. Install Track-It logger on GP-6. Visit all PVWs to record flow. Install well risers at DPVE-22, DPVE-37, and associated monitor wells. Develop wells PVW-02 and GP-6 (pending weather).

Initials: CMH