



# Texas Brine Company, LLC

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



May 29, 2013

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	Steve Shaughnessy - 07:45 - 09:00 Pete Hyatt IV (Code Red) - 07:00 - 17:00	5/28/2013	NA	NA	NA	AreaRAE Monitors	5/29/2013
	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	5/28/2013	NA	NA	NA	NA	NA
	Well Gas Sampling	No work performed	5/28/2013	NA	NA	NA	NA	NA
	Under Slab Gas Sampling	No work performed	5/28/2013	NA	NA	NA	NA	NA
	Indoor Air Monitoring	No work performed	5/28/2013	NA	NA	NA	NA	NA
Respec	Inclinometers/Tilt Meters	5/20-28/2013 No Samples Collected	NA	NA	NA	NA	NA	NA
	InSAR Reflector Installations	5/20-28/2013 No Samples Collected	NA	NA	NA	NA	NA	NA
	Subsidence Survey-Fenstermaker	5/20-28/2013 No Samples Collected	NA	NA	NA	NA	NA	NA
	Shallow Geophone Installation	5/20-28/2013 No Samples Collected	NA	NA	NA	NA	NA	NA
	Deep Geophone Installation	5/20-28/2013 No Samples Collected	NA	NA	NA	NA	NA	NA
	Amendment #3, Directive #2	5/20-28/2013 No Samples Collected	NA	NA	NA	NA	NA	NA
	Expansion of geoprobe gas sampling locations	5/20-28/2013 No Samples Collected	NA	NA	NA	NA	NA	NA
Miller	Weekly Stability Survey	No Work Performed	May 28, 2013	NA	NA	NA	NA	NA
	Misc. Survey Work	No Work Performed	May 28, 2013	NA	NA	NA	NA	NA
	Sinkhole Hydro/Perimeter Survey	No Work Performed	May 28, 2013	NA	NA	NA	NA	NA
Pisani	Surface Water	NA	NA	NA	NA	NA	NA	NA
	Industrial Well Water	NA	NA	NA	NA	NA	NA	NA
	MRAAWell Water	NA	NA	NA	NA	NA	NA	NA
	Geoprobe Wells	NA	NA	NA	NA	NA	NA	NA
<b>Grand Bayou Well 3A</b>								
Daily Operations at 3A	<u>Summary of Today's events</u>							
	5/29/2013	7am	536.95	5/29/2013				
5/29/2013	Relief Well #1							
	See ORW-01 Flare Spreadsheet							

## **Attachments**

## **Daily Action Summary**

**May 28, 2013**

### **Stationary Air Monitoring**

- Steve Shaughnessy onsite from 07:45 – 09:00. Changed out the monitors between 08:06 and 08:39. Collected data from the monitoring database and forwarded to Eric Rucinski in the Baton Rouge office for processing.
- Pete Hyatt IV of Code Red (monitor sub-contractor) onsite from 07:00 to 17:00. Assisted in battery change outs and maintenance of the monitoring equipment.

### **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

\*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 *	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Onsite Trailers				
	ST-3					ST-2					ST-1					OG 3A-1					TR-1				
	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 (%)
05/28/2013 01:00:00 AM	<1.0	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	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
05/28/2013 02:00:00 AM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
05/28/2013 03:00:00 AM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
05/28/2013 04:00:00 AM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
05/28/2013 05:00:00 AM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
05/28/2013 06:00:00 AM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
05/28/2013 07:00:00 AM	<1.0	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	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
05/28/2013 08:00:00 AM	<1.0	0.0	<1.0	0.0	21.1	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 09:00:00 AM	<1.0	0.0	<1.0	0.0	21.2	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 10:00:00 AM	<1.0	0.0	<1.0	0.0	21.4	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 11:00:00 AM	<1.0	0.0	<1.0	0.0	21.3	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 12:00:00 PM	<1.0	0.0	<1.0	0.0	21.3	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 01:00:00 PM	<1.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 02:00:00 PM	<1.0	0.0	<1.0	0.0	21.3	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 03:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 04:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 05:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 06:00:00 PM	<1.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 07:00:00 PM	<1.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 08:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	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	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 09:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	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	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 10:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	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	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 11:00:00 PM	<1.0	0.0	<1.0	0.0	21.3	<1.0	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	<1.0	0.0	<1.0	0.0	20.9
05/29/2013 12:00:00 AM	0.0	0.0	<1.0	0.0	21.3	<1.0	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	<1.0	0.0	<1.0	0.0	20.9

Notes:

Texas Brine - Belle Rose, Louisiana  
Hourly Air Monitoring Data

\*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 *	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Onsite Trailers				
	ST-3					ST-2					ST-1					OG 3A-1					TR-1				
	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 (%)
05/28/2013 05:00:00 AM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
05/28/2013 06:00:00 AM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
05/28/2013 07:00:00 AM	<1.0	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	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
05/28/2013 08:00:00 AM	<1.0	0.0	<1.0	0.0	21.1	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 09:00:00 AM	<1.0	0.0	<1.0	0.0	21.2	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 10:00:00 AM	<1.0	0.0	<1.0	0.0	21.4	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 11:00:00 AM	<1.0	0.0	<1.0	0.0	21.3	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 12:00:00 PM	<1.0	0.0	<1.0	0.0	21.3	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 01:00:00 PM	<1.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 02:00:00 PM	<1.0	0.0	<1.0	0.0	21.3	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 03:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 04:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 05:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 06:00:00 PM	<1.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 07:00:00 PM	<1.0	0.0	<1.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 08:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	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	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 09:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	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	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 10:00:00 PM	0.0	0.0	<1.0	0.0	21.4	<1.0	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	<1.0	0.0	<1.0	0.0	20.9
05/28/2013 11:00:00 PM	<1.0	0.0	<1.0	0.0	21.3	<1.0	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	<1.0	0.0	<1.0	0.0	20.9
05/29/2013 12:00:00 AM	0.0	0.0	<1.0	0.0	21.3	<1.0	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	<1.0	0.0	<1.0	0.0	20.9
05/29/2013 01:00:00 AM	<1.0	0.0	<1.0	0.0	21.3	<1.0	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	<1.0	0.0	<1.0	0.0	20.9
05/29/2013 02:00:00 AM	<1.0	0.0	<1.0	0.0	21.2	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/29/2013 03:00:00 AM	0.0	0.0	<1.0	0.0	21.2	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	5.8	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/29/2013 04:00:00 AM	0.0	0.0	<1.0	0.0	21.2	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	4.9	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/29/2013 05:00:00 AM	0.0	0.0	<1.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	9.4	<1.0	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: Nick Marnach

Date: 05/20/13

Company: RESPEC

Work Order #:           ()

<b>Personnel</b>	<b>Company</b>	<b>Job Title</b>
Nick Marnach	RESPEC	Engineering Field Technician
Pete Rausch	RESPEC	Engineer
Peter Smith, CPG	RESPEC	Staff Geologist
John Schneider	RESPEC	Staff Geophysicist

**Time Onsite:** Start Time: 06:15 End Time: 17:45

**Daily Activity:**

07:30 attend contractor meeting.

**Instrumentation program:**

Installed monitoring sites #5, #39, #44, #50, #57, #58 (Rausch & Marnach). Fabricated insert for compressed air pipe driver.

**G-1 drilling program:**

Provided drilling oversight on G1; collecting samples every 10 feet (Schneider & Smith).

**MRAA Sampling Event:**

Called and coordinated field staff that will conduct sampling for the week (Smith).

**Proposed Schedule:**

**Instrumentation program:**

Install sites #36, #37, #32, #33, #34.

**G-1 drilling program:**

Log samples from G-1.

**MRAA Sampling Event:**

Supervise kickoff meeting and gas sampling.

Initials: NMM

**RESPEC Consulting & Services**

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Nick Marnach

Date: 05/21/13

Company: RESPEC

Work Order #:                   ()

<b>Personnel</b>	<b>Company</b>	<b>Job Title</b>
Nick Marnach	RESPEC	Engineering Field Technician
Pete Rausch	RESPEC	Engineer
Peter Smith, CPG	RESPEC	Staff Geologist
John Schneider	RESPEC	Staff Geophysicist

**Time Onsite:**

Start Time: 07:00

End Time: 18:00

**Daily Activity:**

07:30 contractor meeting.

**Instrumentation program:**

08:00 safety meeting. Installed monitoring sites #6, #29, #36, #37, #32, #34. Loaded boats for next day (Rausch & Marnach).

**G-1 drilling program:**

Provide drilling oversight (Schneider & Smith). Log chip samples from shale shaker; drilling through overburden.

**MRAA Sampling Event:**

Kick –off meeting with Sage, Pisani, CBI and Faucheux (Smith). Coordinated gas and water sampling. Gas and dissolved gas samples collected from bubble sites.

**Proposed Schedule:**

**Instrumentation program:**

Install sites #33, #54, #59 morning till noon 5/22/13. Cut and ready pipe and angle iron upon delivery for the installation of sites #35 and #60 afternoon.

**G-1 drilling program:**

Continue collecting chip samples from G-1; drilling through cap rock.

**MRAA Sampling Event:**

Coordinate gas and dissolved gas sampling activities.

Initials: NMM

**RESPEC Consulting & Services**

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Nick Marnach

Date: 05/22/13

Company: RESPEC

Work Order #:                   ()

<b>Personnel</b>	<b>Company</b>	<b>Job Title</b>
Nick Marnach	RESPEC	Engineering Field Technician
Pete Rausch	RESPEC	Engineer
Peter Smith, CPG	RESPEC	Staff Geologist
John Schneider	RESPEC	Staff Geophysicist

**Time Onsite:**

Start Time: 06:45

End Time: 20:15

**DAILY ACTIVITY:**

07:30 contractor meeting.

**Instrumentation program:**

Safety meeting. Installed monitoring sites #54, #33. Rain affected daily activity. Prepared material (i.e. drilled holes, cut to length, staged) for monitoring sites (Rausch & Marnach).

**G-1 drilling program:**

Provided drilling oversight (Schneider & Smith). Log chip samples; drilling through cap rock.

**MRAA Sampling Event:**

Sampling meeting with Sage, Pisani, CBI and Faucheux (Smith). Coordinate gas and water sampling from Geoprobe wells.

**PROPOSED SCHEDULE:**

**Instrumentation program:**

Install sites #59, #3 (morning) and #35, #60 (afternoon). Complete sites #22 and #21 (i.e. add horizontal members and supporting hardware).

**G-1 drilling program:**

Log samples from G-1; ream hole and set casing.

**MRAA Sampling Event:**

Coordinate sampling activities.

Initials: NMM

**RESPEC Consulting & Services**

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Pete Smith

Date: 05/23/13

Company: RESPEC

Job #: 02241

Personnel	Company	Job Title
Nick Marnach	RESPEC	Engineering Field Technician
Pete Rausch	RESPEC	Engineer
Peter Smith, CPG	RESPEC	Staff Geologist
John Schneider	RESPEC	Staff Geophysicist

**Time Onsite:**

Start Time: 06:45

End Time: 20:00

**DAILY ACTIVITY:**

07:30 contractor meeting.

**Instrumentation program:**

Safety meeting. Installed monitoring sites # 10, #59, #3, #21 and #22 (Rausch & Marnach).

**G-1 drilling program:**

Provide drilling oversight (Schneider & Smith). Log chip samples collected from shale shaker.

Attend pre-coring meeting. Baker Hughes on site to run wireline. Set casing and cement.

**MRAA Sampling Event:**

Sampling meeting with Sage, Pisani, CBI and Faucheux (Smith). Coordinate gas and water sampling. Gas and dissolved gas samples collected from Geoprobe and ORW wells. Four bubble sites resampled. Second water sampling team added (3 teams total). Air boat released.

**PROPOSED SCHEDULE:**

**Instrumentation program:**

Install sites #35 and #60.

**G-1 drilling program:**

Drilling oversight; wait on cement.

**MRAA Sampling Event:**

Continue to coordinate gas and dissolve gas sampling activities.

Initials: PHS

**RESPEC Consulting & Services**

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Pete Smith

Date: 05/24/13

Company: RESPEC

Job #: 02241

Personnel	Company	Job Title
Nick Marnach	RESPEC	Engineering Field Technician
Pete Rausch	RESPEC	Engineer
Peter Smith, CPG	RESPEC	Staff Geologist
John Schneider	RESPEC	Staff Geophysicist

**Time Onsite:**

Start Time: 07:00

End Time: 18:00

**DAILY ACTIVITY:**

07:30 contractor meeting.

**Instrumentation program:**

Safety meeting. Installed monitoring sites #35 and #60 (Rausch & Marnach).

**G-1 drilling program:**

Provide drilling oversight (Schneider & Smith). Log chip samples collected from shale shaker. Attend pre-coring meeting.

**MRAA Sampling Event:**

Sampling meeting with Sage, Pisani and CBI (Smith). Coordinate one gas and two water sampling teams. Gas and dissolved gas samples collected from Geoprobe and ORW wells. Gas sampling is completed. Dissolved gas sampling continues.

**PROPOSED SCHEDULE:**

**Instrumentation program:**

No further work on instrumentation until Tuesday 5/28/13.

**G-1 drilling program:**

Drilling oversight; test casing, continue drilling.

**MRAA Sampling Event:**

No further sampling activities until Tuesday 5/28/13.

Initials: PHS

## **ME&A Daily Action Summary**

May 28, 2013

### **Subsidence Survey:**

- No Work Done

### **Sinkhole Perimeter/Hydrographic Survey:**

- No Work Done

### **Support Sinkhole Cleanup**

- No Work Done

### **Misc. Survey Work**

- No Work Done