



# Texas Brine Company, LLC

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October 11, 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	Eric Rucinski - 08:15 - 09:00 Mark Schlecht (Code Red) - 07:00 - 17:00		10/10/2013		NA	NA	NA	NA	10/11/2013	
	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		10/10/2013		NA	NA	NA	NA	NA	
	Well Gas Sampling	Steven Shaughnessy - 10:10 - 10:14 Steven Shaughnessy - 07:14 - 07:19		9/16/2013 9/19/2013		NA	Yes	Isotech	Isotopic	10/11/2013	
	Under Slab Gas Sampling	No work performed		10/10/2013		NA	NA	NA	NA	NA	
	Indoor Air Monitoring	No work performed		10/10/2013		NA	NA	NA	NA	NA	
Respec	Inclinometers/Tilt Meters/Transducers	10/10/2013	No work Conducted	NA	NA	NA	NA	NA	NA	NA	
	InSAR Reflector Installations	10/10/2013	No work Conducted	NA	NA	NA	NA	NA	NA	NA	
	Subsidence Survey-Fenstermaker	10/10/2013	No work Conducted	NA	NA	NA	NA	NA	NA	NA	
	Shallow Geophone Installation	10/10/2013	No work Conducted	NA	NA	NA	NA	NA	NA	NA	
	Deep Geophone Installation	10/10/2013	No work Conducted	NA	NA	NA	NA	NA	NA	NA	
	Amendment #3, Directive #2	10/10/2013	No work Conducted	NA	NA	NA	NA	NA	NA	NA	
	Expansion of geoprobe gas sampling locations	10/10/2013	No work Conducted	NA	NA	NA	NA	NA	NA	NA	
	DPVE Pilot Test	10/10/2013	Oversee DPVE-47 pilot test	P. Smith	NA	NA	NA	NA	NA	NA	NA
	MIHPT	10/10/2013	oversee installation of MIHPT-19, and rig maintenance	D. Gnage; P. Smith	NA	NA	NA	NA	NA	NA	NA
	Miller	Weekly Stability Survey	No Work Performed		October 10, 2013		NA	NA	NA	NA	NA
Misc. Survey Work		Herschel Sauce/Kevin Pichoff, Jr.		October 10, 2013		NA	NA	NA	NA	NA	
Sinkhole Hydro/Perimeter Survey		No Work Performed		October 10, 2013		NA	NA	NA	NA	NA	
Pisani	Surface Water	NA		NA		NA	NA	NA	NA	NA	
	Sinkhole	NA		NA		NA	NA	NA	NA	NA	
	Industrial Well Water	NA		NA		NA	NA	NA	NA	NA	
	MRAA Well Water	PMR/ENK		10/10/2013		NA	NA	GCAL	Chloride, Bromide and Sulfate (Inorganic Anions) – SW-846 9056A, Conductivity – SM 2510B, TDS – SM 2540C, Cations/metals – SW-846 6010B, Carbonate & Bicarbonate Alkalinity – SM 2320B, BTEX – SW-846 8260B, TPH Fractions – TX 1006/LA 1006, and Dissolved Gases - RSK-175, PAH	NA	
	GP/ORW Water	NA		NA		NA	NA	NA	NA	NA	
	Cavern Water	NA		NA		NA	NA	NA	NA	NA	
	Discharge/Outfall Water	NA		NA		NA	NA	NA	NA	NA	
	Geoprobe Wells	NA		NA		NA	NA	NA	NA	NA	
Grand Bayou Well 3A											
Daily Operations at 3A		Summary of Today's events									
10/11/2013		Oxy 3A									
7am		758.2 10/11/2013									
10/11/2013		Relief Well #1									
		See ORW-01 Flare Spreadsheet									

## **Attachments**

## **Daily Action Summary**

**October 10, 2013**

### **Stationary Air Monitoring**

- Eric Rucinski onsite from 08:15 to 09:00. Changed out the monitors between 08:27 and 08:45. Collected data from the monitoring database and forwarded to Steven Shaughnessy in the Baton Rouge office for processing.
- Mark Schlecht of Code Red (monitor sub-contractor) onsite from 07:00 to 17:00. Assisted in battery change outs and maintenance of the monitoring equipment.

NOTE: RTU-9, located at ORW-8a, recorded low O<sub>2</sub> readings from approximately 11:03 to 11:24 on 10/10/2013. RTU-5 replaced RTU-9 at 11:28 on 10/10/2013, and normal readings resumed.

### **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**

- Isotopic analytical results from the September 16, 2013 and September 19, 2013 Geophone-1 sampling events were received and are attached.

### **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 *	Observation Relief Well -7					Observation Relief Well - 8					Observation Relief Well -11					South of OG3A-1					Onsite Trailers				
	ORW-7a					ORW-8a					ORW-11a					Pad #9					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 (%)
10/10/2013 01:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
10/10/2013 02:00:00 AM	<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	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
10/10/2013 03:00:00 AM	<1.0	<1.0	<1.0	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	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
10/10/2013 04:00:00 AM	<1.0	<1.0	<1.0	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	<1.0	0.0	21.0	0.0	0.0	0.0	0.0	20.9
10/10/2013 05:00:00 AM	<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	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
10/10/2013 06:00:00 AM	<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	0.0	0.0	0.0	0.0	20.9
10/10/2013 07:00:00 AM	<1.0	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
10/10/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 09:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 10:00:00 AM	0.0	0.0	<1.0	0.0	20.7	0.0	0.0	<1.0	0.0	20.8	<1.0	<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
10/10/2013 11:00:00 AM	0.0	0.0	<1.0	0.0	20.8	<1.0	0.0	<1.0	0.0	19.6	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 12:00:00 PM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 01:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 02:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 03:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 04:00:00 PM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 05:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 06:00:00 PM	0.0	0.0	<1.0	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	0.0	0.0	<1.0	0.0	20.9
10/10/2013 07:00:00 PM	0.0	0.0	<1.0	0.0	20.9	<1.0	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	0.0	0.0	<1.0	0.0	20.9
10/10/2013 08:00:00 PM	0.0	0.0	<1.0	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	0.0	0.0	<1.0	0.0	20.9
10/10/2013 09:00:00 PM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 10:00:00 PM	0.0	0.0	<1.0	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	0.0	0.0	<1.0	0.0	20.9
10/10/2013 11:00:00 PM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/11/2013 12:00:00 AM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9

Notes:

RTU-9, located at ORW-8a, recorded low O2 readings from approximately 11:03 AM to 11:24 AM on 10/10/2013. RTU-5 replaced RTU-9 at 11:28 AM on 10/10/2013, and normal readings resumed.

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 *	Observation Relief Well -7					Observation Relief Well - 8					Observation Relief Well -11					South of OG3A-1					Onsite Trailers				
	ORW-7a					ORW-8a					ORW-11a					Pad #9					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 (%)
10/10/2013 05:00:00 AM	<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	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
10/10/2013 06:00:00 AM	<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	0.0	0.0	0.0	0.0	20.9
10/10/2013 07:00:00 AM	<1.0	0.0	0.0	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	0.0	0.0	0.0	0.0	20.9
10/10/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 09:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 10:00:00 AM	0.0	0.0	<1.0	0.0	20.7	0.0	0.0	<1.0	0.0	20.8	<1.0	<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
10/10/2013 11:00:00 AM	0.0	0.0	<1.0	0.0	20.8	<1.0	0.0	<1.0	0.0	19.6	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 12:00:00 PM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 01:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 02:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 03:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 04:00:00 PM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 05:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 06:00:00 PM	0.0	0.0	<1.0	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	0.0	0.0	<1.0	0.0	20.9
10/10/2013 07:00:00 PM	0.0	0.0	<1.0	0.0	20.9	<1.0	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	0.0	0.0	<1.0	0.0	20.9
10/10/2013 08:00:00 PM	0.0	0.0	<1.0	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	0.0	0.0	<1.0	0.0	20.9
10/10/2013 09:00:00 PM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/10/2013 10:00:00 PM	0.0	0.0	<1.0	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	0.0	0.0	<1.0	0.0	20.9
10/10/2013 11:00:00 PM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/11/2013 12:00:00 AM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/11/2013 01:00:00 AM	0.0	0.0	<1.0	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	0.0	0.0	<1.0	0.0	20.9
10/11/2013 02:00:00 AM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/11/2013 03:00:00 AM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/11/2013 04:00:00 AM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
10/11/2013 05:00:00 AM	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9

Notes:

RTU-9, located at ORW-8a, recorded low O2 readings from approximately 11:03 AM to 11:24 AM on 10/10/2013. RTU-5 replaced RTU-9 at 11:28 AM on 10/10/2013, and normal readings resumed.



**RESPEC Consulting & Services**

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: David Gnage

Date: 10/10/13

Company: RESPEC

Job #: 02241

<b>Personnel</b>	<b>Company</b>	<b>Job Title</b>
David J. Gnage	RESPEC	Staff Geologist
Peter H. Smith, CPG	RESPEC	Staff Geologist

**Time Onsite:** Start Time: 7:15 End Time: 18:30

**DAILY ACTIVITY:**

**Attended Daily Contractor meeting.**

**DPVE pilot program:**

Continued operation of the DPVE-47 pilot test. The system ran with a water discharge rate of 41 gpm, DPVE-47-1 vacuum of 23 inches of mercury, and methane concentrations of 49,250 ppm.

**MiHPT Boring Program:**

Replace broken rod and several other worn rods. Re-strung the truck line and grout line through the rod assembly, and performed maintenance on the rod string and grout pumps. Completed MiHPT-19 near CPT-19 to a depth of 136 ft. bgs.

**Instrumentation Program:**

No activity. No personnel on-site.

**PROPOSED SCHEDULE:**

**DPVE pilot program:**

Continue run DPVE system at DPVE-47, potentially increase the pump size.

**MiHPT Boring Program:**

Install MiHPT-109W near CPT 109W and MiHPT-93 between ORW 17 & ORW 18 on October 11, 2013.

**Instrumentation Program:**

TBC indicated there may be a meeting with Chevron on 10/10 to discuss new geophone location on their property and 2 new geophone locations may be installed the week of 10/14 one of which will be on the Chevron property.

Initials: DJG

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

October 10, 2013

### **Subsidence Survey:**

- No Work Done

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

- No Work Done

### **Support Sinkhole Cleanup**

- No Work Done

### **Misc. Survey Work**

- Arrived @ 7:00 am
- Settlement plate survey on at DPVE-47 location & settlement survey on north berm access pads. Monitoring for movement on OG Pad 3 while water well is being P&A'd.
- Departed @ 3:00 pm

# Michael Pisani & Associates

Texas Brine, L.L.C.

Assumption Parish, Louisiana

## Daily Field Report

Report By: Patrick Ritchie

Date: 10/10/2013

Company: MP&A

Work Order # 80-05

Health and Safety Meeting  YES  NO

Weather: 85 F clear

Personnel	Company	Job Title
Patrick Ritchie	MP&A	Environmental Scientist
Eric Kocken	MP&A	Environmental Scientist

Site Activities: Start Time 8:50 End Time 15:35

**Equipment On-site:**

**Daily Activity:**  
Completed collecting laboratory samples from the MRAA wells

Estimated time of completion:  
On-going

**Proposed schedule:**  
Conduct in-situ monitoring of industrial water wells  
Measure water level for the industrial water wells and MRAA wells  
Measure pressure and water level at TBC Geoprobe locations  
Collect laboratory samples from the industrial water wells  
Observe, video, measure bubble sites  
Download transucer data

Estimated time of completion:  
On-going

Initials: PMR