



# Texas Brine Company, LLC

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February 19, 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	Bijet Mukherjee - 08:05 - 09:45 Pete Hyatt IV (Code Red) - 07:00 - 17:00		2/18/2013	No	No	No	AreaRAE Monitors	2/19/2013
	Residential Air Monitoring	No work performed		2/18/2013	NA	NA	NA	NA	NA
	Gas Seep Sampling	Steve Shaughnessy - Lead		1/31/2013	Yes	Yes	Accutest PL	T015 LHG/S	2/19/2013
	Well Gas Sampling	No work performed		2/18/2013	NA	NA	NA	NA	NA
	Indoor Air Monitoring	No work performed		2/18/2013	NA	NA	NA	NA	NA
Respec	Inclinometers/Tilt Meters	2/18/2013	Troubleshoot IPI communication issues; transducer infrastructure near Rig Access Road	Eric Krantz	NA	NA	NA	NA	NA
	InSAR Reflector Installations	2/15 - 2/18/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA
	Subsidence Survey-Fenstermaker	2/15 - 2/18/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA
	Shallow Geophone Installation	2/15 - 2/18/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA
	Deep Geophone Installation	2/15 - 2/18/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA
	Amendment #3, Directive #2	2/15 - 2/18/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA
	Weekly Stability Survey	No Work Performed		Feb. 18, 2013	NA	NA	NA	NA	NA
Misc. Survey Work	No Work Performed		Feb. 18, 2013	NA	NA	NA	NA	NA	
Sinkhole Hydro/Perimeter Survey	Matt Fore/Kevin Pichoff		Feb. 18, 2013	NA	NA	NA	NA	NA	
Pisani	Surface Water	NA		NA	NA	NA	NA	NA	NA
	Well 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							
2/19/2013		Oxy 3A							
7am		611.72							
2/19/2013		2/19/2013							
		Relief Well #1							
		See ORW-01 Flare Spreadsheet							

Laboratory

Lab Contact

Laboratory

Lab Contact

## **Attachments**

## **Daily Action Summary**

**February 18, 2013**

### **Stationary Air Monitoring**

- Bijet Mukherjee onsite from 08:05 to 09:45. Changed out the monitors between 08:38 and 09:21. Collected data from the monitoring database and forwarded to Eric Rucinski 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**

- Not Scheduled

### **Gas Seep Sampling**

- Accutest and SPL Laboratories provided T015 and LHG/S analytical results, respectively, of the gas sample collected on January 31, 2013 from PND-1, which is North of RW-1 and West of the Maintenance Shop.

### **Well 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					Relief Well				
	AM-3					AM-2					AM-1					OG 3A-1					RW-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 (%)
02/18/2013 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	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.8	0.0	<1.0	0.0	<1.0	20.9
02/18/2013 02:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	22.0	0.0	<1.0	0.0	<1.0	20.9
02/18/2013 03:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	22.2	0.0	<1.0	0.0	<1.0	20.9
02/18/2013 04:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	22.4	0.0	<1.0	0.0	<1.0	20.9
02/18/2013 05:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	22.6	0.0	<1.0	0.0	<1.0	20.9
02/18/2013 06:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	22.6	0.0	<1.0	0.0	<1.0	20.9
02/18/2013 07:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	22.9	0.0	<1.0	0.0	0.0	20.9
02/18/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	23.1	0.0	<1.0	0.0	<1.0	20.9
02/18/2013 09:00:00 AM	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	0.0	<1.0	<1.0	0.0	20.9
02/18/2013 10:00:00 AM	<1.0	<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	Data not properly transmitted (see Note)					0.0	<1.0	0.0	<1.0	20.9
02/18/2013 11:00:00 AM	<1.0	0.0	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						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 12:00:00 PM	<1.0	<1.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 01:00:00 PM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	1.1	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/18/2013 02:00:00 PM	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 03:00:00 PM	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 04:00:00 PM	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 05:00:00 PM	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/18/2013 06:00:00 PM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 07:00:00 PM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 08:00:00 PM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 09:00:00 PM	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/18/2013 10:00:00 PM	<1.0	<1.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/18/2013 11:00:00 PM	<1.0	<1.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/19/2013 12:00:00 AM	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9

Notes:  
Data was not properly transmitted by RTU-8 beginning at 09:42 AM on 2/18/13. Real time data could be viewed by the onsite technician; however, the data was not transmitted and recorded. RTU-8 will be serviced by onsite technician.

Texas Brine - Belle Rose, Louisiana  
Gas Seep Sampling Results

	PND-1 (1/31/2013)
	Sample Date: 1/31/2013
<b>LHG Constituents</b>	
<b>SPL Sample ID</b>	<b>PND-1</b>
<b>Pollutant</b>	<b>Mol %</b>
Nitrogen	99.926
CO <sub>2</sub>	0.074
Methane	ND
Ethane	ND
Propane	ND
Iso-butane	ND
n-Butane	ND
Iso-pentane	ND
n-Pentane	ND
Hexanes+	ND
Heptanes+	ND
<b>Sulfides</b>	
<b>SPL Sample ID</b>	<b>PND-1</b>
<b>Pollutant</b>	<b>ppm<sub>w</sub></b>
Hydrogen Sulfide	ND
Carbonyl Sulfide	<1.0
Dimethyl Sulfide	ND
Unkown Sulfides	ND
Methyl Mercaptans	ND
Ethyl Mercaptans	ND
Isopropyl Mercaptans	ND
n-Propyl Mercaptans	ND
sec-Butyl Mercaptans	ND
tert-Butyl Mercaptans	ND
n-Butyl Mercaptans	ND
pri-Amyl Mercaptans	ND
Carbon Disulfide	ND
Unkown Disulfides	ND
Thiophene	ND
<b>Toxics Detected</b>	
<b>Accutest Sample ID</b>	<b>JB27907-1</b>
<b>Pollutant</b>	<b>ppm<sub>v</sub></b>
Benzene	ND
Carbon Disulfide	ND
Chloroform	ND
Chloromethane	ND
Cyclohexane	0.997
Dichlorodifluoromethane	ND
Ethylbenzene	ND
(n) Hexane	11.5
Methylene Chloride	0.0627
Methyl Ethyl Ketone	ND
Methyl Isobutyl Ketone	ND
Styrene	ND
1,2,4 Trimethylbenzene	ND
1,3,5 Trimethylbenzene	ND
2,2,4-Trimethylpentane	ND
Tetrachloroethylene	ND
Toluene	ND
Trichloroethylene	ND
Xylenes (total) m,p plus o	ND
<b>TOTAL</b>	12.560
<b>Non-Toxics Detected</b>	
Acetone	ND
Ethanol	ND
4-Ethyltoluene	ND
Freon 113	ND
Heptane	1.490
Isopropyl Alcohol	ND
Tertiary Butyl Alcohol	ND
Trichlorofluoromethane	ND

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 AM-3					Middle-most Pipeline Site AM-2					North-most Pipeline Site AM-1					On Drill Rig Boom OG 3A-1					Relief Well RW-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 (%)
02/18/2013 05:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	22.6	0.0	<1.0	0.0	<1.0	20.9
02/18/2013 06:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	22.6	0.0	<1.0	0.0	<1.0	20.9
02/18/2013 07:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	22.9	0.0	<1.0	0.0	0.0	20.9
02/18/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	23.1	0.0	<1.0	0.0	<1.0	20.9
02/18/2013 09:00:00 AM	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	0.0	<1.0	<1.0	0.0	20.9
02/18/2013 10:00:00 AM	<1.0	<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						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 11:00:00 AM	<1.0	0.0	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						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 12:00:00 PM	<1.0	<1.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 01:00:00 PM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	1.1	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/18/2013 02:00:00 PM	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 03:00:00 PM	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 04:00:00 PM	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 05:00:00 PM	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
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02/18/2013 07:00:00 PM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 08:00:00 PM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	<1.0	20.9
02/18/2013 09:00:00 PM	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/18/2013 10:00:00 PM	<1.0	<1.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/18/2013 11:00:00 PM	<1.0	<1.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/19/2013 12:00:00 AM	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
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02/19/2013 02:00:00 AM	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/19/2013 03:00:00 AM	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.0	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/19/2013 04:00:00 AM	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9
02/19/2013 05:00:00 AM	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9						0.0	0.0	0.0	0.0	20.9

Data not properly transmitted  
(see Note)

Notes:

Data was not properly transmitted by RTU-8 beginning at 09:42 AM on 2/18/13. Real time data could be viewed by the onsite technician; however, the data was not transmitted and recorded. RTU-8 will be serviced by onsite technician.

# RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Eric Krantz

Date: 2/15/13

Company: RESPEC

Work Order #:                   ()

Personnel	Company	Job Title
	RESPEC	

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

(Note: on-site time only reflects time on-site; it does not reflect time taken for off-site activities)

**Equipment Onsite:**

**Daily Activity:**            RESPEC not onsite

**Proposed Schedule:**

Initials: ELK

# RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Eric Krantz

Date: 2/16/13

Company: RESPEC

Work Order #:                   ()

Personnel	Company	Job Title
	RESPEC	

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

(Note: on-site time only reflects time on-site; it does not reflect time taken for off-site activities)

**Equipment Onsite:**

**Daily Activity:**            RESPEC not onsite

**Proposed Schedule:**

Initials: ELK

# RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Eric Krantz

Date: 2/17/13

Company: RESPEC

Work Order #:                   ()

Personnel	Company	Job Title
	RESPEC	

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

(Note: on-site time only reflects time on-site; it does not reflect time taken for off-site activities)

**Equipment Onsite:**

**Daily Activity:** RESPEC not onsite

**Proposed Schedule:** 2/18-2/19: Recon water level transducer installation locations along Rig Access Road; trouble shoot IPI connection problems at IPI-4 and IPI-5; evaluate position of equipment and discuss/consider moving back from sinkhole  
2/20 – 2/26: Assist Fenstermaker with survey

Initials: ELK

# RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

## Daily Field Report

Report By: Eric Krantz

Date: 2/18/13

Company: RESPEC

Work Order #:                   ()

Personnel	Company	Job Title
Eric Krantz	RESPEC	Engineer

**Time Onsite:** Start Time: 0800 End Time: 1630

(Note: on-site time only reflects time on-site; it does not reflect time taken for off-site activities)

### Equipment Onsite:

**Daily Activity:** Recon water level transducer installation locations along Rig Access Road, collect GPS from line-of-sight locations and plot on aerial; fabrication of installation infrastructure; install post off Rig Access Road for mounting equipment enclosure, panel and antenna; trouble shoot IPI connection problems at IPI-4 and IPI-5: install 3dBa omni antenna at IPI-4, raise and align yagi at IPI-5; receive equipment; purchase hardware, fabricate

**Proposed Schedule:** 2/19: build-up electronics in enclosure for transducer, install enclosure, transducer, solar panel, antenna; evaluate position of equipment and discuss/consider moving back from sinkhole  
2/20 – 2/26: Assist Fenstermaker with survey; evaluate position of equipment and discuss/consider moving back from sinkhole

Initials: ELK

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

February 18, 2013

### **Subsidence Survey:**

- No Work Done

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

- Arrived @ 8:30 am
- Ran hydrographic survey on sinkhole and survey swamp area outside of sinkhole to determine extent of subsidence area.
- Departed @ 4:30 pm

### **Support Sinkhole Cleanup**

- No Work Done

### **Misc. Survey Work**

- Ran conventional level loop on south containment levee road to check for settlement. Settlement survey suspended on north containment levee due to construction activities resuming.

# Michael Pisani & Associates

Texas Brine, L.L.C.  
Assumption Parish, Louisiana  
Daily Field Report

Report By: Patrick Ritchie  
Company: MP&A

Date: 2/18/2013  
Work Order # 80-05

Health and Safety Meeting  YES  NO

Weather: 62 F overcast scattered showers

<u>Personnel</u>	<u>Company</u>	<u>Job Title</u>
<u>Patrick Ritchie</u>	<u>MP&amp;A</u>	<u>Environmental Scientist</u>
<u>Charles Trahan</u>	<u>MP&amp;A</u>	<u>Geologist</u>
<u>Walker-Hill Drilling Crew</u>		

Site Activities: Start Time 6:50 End Time 17:35

**Equipment On-site:** Gardner Denver mud rotary rig  
1000 Gal poly tank  
Skid Steer  
Vac Truck

**Daily Activity:**  
Drilled from 440 to 520' bgs at MRAA-02D location  
Measure pressure and water level at TBC Geoprobe locations

Estimated time of completion:  
On-going

**Proposed schedule:**  
Conduct in-situ monitoring surface water transect and industrial water well locations 2/19/2013  
Measure water level for the industrial water wells 2/19/2013  
Collect laboratory samples from the TBC and GG industrial water wells 2/19/2013  
Measure pressure and water level at TBC Geoprobe locations 2/25/2013  
Geophysical logging of MRAA-02D.  
Begin to ream MRAA-02D with 9 7/8" bit  
Estimated time of completion:  
On-going

Initials: PMR