



Texas Brine Company, LLC

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June 3, 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, 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 - 08:10 - 09:10, Pete Hyatt IV (Code Red) - 07:00 - 11:00; Eric Rucinski - 08:00 - 09:00, Pete Hyatt IV (Code Red) - 07:00 - 17:00; Eric Rucinski 08:00 - 09:15, Pete Hyatt IV (Code Red) - 07:00 - 11:00	5/31 - 6/2/2013		NA	NA	NA	AreaRAE Monitors	6/1 - 6/3/2013
	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	Steve Shaughnessy NSDBS-6 at 16:55 NSDBS-14 at 16:35 NSDBS-15 at 16:02 NSDBS-23 at 16:17 NSDBS-26 at 08:40 NSDBS-64 at 08:16	5/31/2013		NA	NA	NA	NA	NA
	Well Gas Sampling	Steve Shaughnessy ORW-1 at 10:33 (5/23) ORW-5 at 13:26 (5/23) ORW-6 at 10:43 (5/23) ORW-8 at 13:15 (5/23) ORW-9 at 11:13 (5/23) ORW-12 at 14:08 (5/23) ORW-13 at 13:50 (5/23) ORW-14 at 13:58 (5/23) ORW-15 at 10:20 (5/23) ORW-16 at 11:30 (5/23) ORW-17 at 10:53 (5/23) ORW-19 at 11:01 (5/23) ORW-22 at 10:10 (5/23) ORW-28 at 10:05 (5/23) ORW-36 at 08:10 (5/24) ORW-37 at 08:02 (5/24) BC-2 at 08:17 (5/24)	5/31/2013		Yes (via Accutest courier service)	No	SPL Isotech	Sulfur Isotopic	upon receipt of results from labs
	Under Slab Gas Sampling	No work performed	5/31 - 6/2/2013		NA	NA	NA	NA	NA
	Indoor Air Monitoring	No work performed	5/31 - 6/2/2013		NA	NA	NA	NA	NA
	Respec	Inclinometers/Tilt Meters	5/31 - 6/2/2013 No samples collected	NA	NA	NA	NA	NA	NA
INSAR Reflector Installations		5/31 - 6/2/2013 No samples collected	NA	NA	NA	NA	NA	NA	NA
Subsidence Survey-Fenstermaker		5/31 - 6/2/2013 No samples collected	NA	NA	NA	NA	NA	NA	NA
Shallow Geophone Installation		5/31 - 6/2/2013 No samples collected	NA	NA	NA	NA	NA	NA	NA
Deep Geophone Installation		5/31 - 6/2/2013 No samples collected	NA	NA	NA	NA	NA	NA	NA
Amendment #3, Directive #2		5/31 - 6/2/2013 No samples collected	NA	NA	NA	NA	NA	NA	NA
GP-ORW and GP-BS Geoprobe Well Installations		5/31/2013 Grain size analysis, GP-BS sand	NA	NA	NA	5/31/2013	Ardaman	Sieve and Hydrometer	NA
Expansion of geoprobe gas sampling locations		5/31 - 6/2/2013 No samples collected	NA	NA	NA	NA	NA	NA	NA
Miller	Weekly Stability Survey	No Work Performed	5/31 - 6/2/2013		NA	NA	NA	NA	NA
	Misc. Survey Work	Joel Miller	May 31, 2013		NA	NA	NA	NA	NA
	Sinkhole Hydro/Perimeter Survey	No Work Performed	5/31 - 6/2/2013		NA	NA	NA	NA	NA
Pisani	Surface Water	NA	NA	NA	NA	NA	NA	NA	NA
	Industrial Well Water	NA	NA	NA	NA	NA	NA	NA	NA
	MRAA Well Water	NA	NA	NA	NA	NA	NA	NA	NA
	Geoprobe Wells	NA	NA	NA	NA	NA	NA	NA	NA
	Sinkhole Profile	NA	NA	NA	NA	NA	NA	NA	NA
Grand Bayou Well 3A									
Daily Operations at 3A		Summary of Today's events							
6/1 - 6/3/2013		Oxy 3A							
	7am NA	6/1/2013							
	7am 541.88	6/2/2013							
	7am 538.13	6/3/2013							
6/1 - 6/3/2013		Relief Well #1							
		See ORW-01 Flare Spreadsheet							

Attachments

Daily Action Summary

May 31, 2013

Stationary Air Monitoring

- Eric Rucinski onsite from 08:00 – 09:00. Changed out the monitors between 08:24 and 08:48. Collected data from the monitoring database and forwarded to Jill Martin 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

- SPL provided the sulfur analytical results of the following gas seep sample collected on May 23, 2013 as part of the MRAA Sampling Program:
 - NSDBS-6
 - NSDBS-14
 - NSDBS-15
 - NSDBS-23
 - NSDBS-26
 - NSDBS-64

SPL additionally conducted LHG analysis on the gas seep sample and provided those results. Isotopic analytical results are not yet available.

Well Gas Sampling

- SPL provided the sulfur analytical results of the following well gas samples collected on May 23-24, 2013 as part of the MRAA Sampling Program:
 - ORW-1
 - ORW-5
 - ORW-6
 - ORW-8
 - ORW-9
 - ORW-12
 - ORW-13
 - ORW-14

- ORW-15
- ORW-16
- ORW-17
- ORW-19
- ORW-22
- ORW-28
- ORW-36
- ORW-37
- BC-2

SPL additionally conducted LHG analysis on the well gas samples and provided those results. Isotopic analytical results are not yet available.

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 (%)
05/31/2013 01:00:00 AM	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	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2
05/31/2013 02:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	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	21.2
05/31/2013 03:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	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	21.2
05/31/2013 04:00:00 AM	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	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2
05/31/2013 05:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2
05/31/2013 06:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2
05/31/2013 07:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2
05/31/2013 08:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.8	<1.0	<1.0	<1.0	0.0	20.7	
05/31/2013 09:00:00 AM	<1.0	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	0.0	0.0	0.0	0.0	20.6	<1.0	0.0	0.0	0.0	20.7
05/31/2013 10:00:00 AM	<1.0	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	0.0	0.0	0.0	0.0	20.8	<1.0	0.0	0.0	0.0	20.9
05/31/2013 11:00:00 AM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 12:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 01:00:00 PM	<1.0	0.0	<1.0	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	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 02:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 03:00:00 PM	<1.0	0.0	<1.0	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	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 04:00:00 PM	<1.0	0.0	<1.0	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	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 05:00:00 PM	<1.0	0.0	<1.0	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	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 06:00:00 PM	<1.0	0.0	<1.0	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	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 07:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 08:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 09:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 10:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 11:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/01/2013 12:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9

Notes:

Texas Brine - Belle Rose, Louisiana
Well Gas Sampling Results - MRAA Sampling Events

	ORW-12	ORW-17	ORW-8
	Sample Date: May 23, 2013	Sample Date: May 23, 2013	Sample Date: May 23, 2013
LHG Constituents			
SPL Sample ID	ORW-12	ORW-17	ORW-8
Pollutant	Mol %	Mol %	Mol %
Nitrogen	3.829	4.477	87.116
Carbon Dioxide	1.477	1.194	1.618
Methane	91.729	91.827	10.827
Ethane	2.191	1.855	0.281
Propane	0.493	0.484	0.091
Iso-butane	0.119	0.109	0.027
n-Butane	0.087	0.045	0.017
Iso-pentane	0.036	0.008	0.009
n-Pentane	0.016	0.001	0.005
Hexanes	0.013	ND	0.008
Heptanes+	0.010	ND	0.001
Sulfides			
SPL Sample ID	ORW-12	ORW-17	ORW-8
Pollutant	ppm_w	ppm_w	ppm_w
Hydrogen Sulfide	ND	ND	<1.0
Carbonyl Sulfide	ND	ND	2.4
Dimethyl Sulfide	ND	ND	ND
Methyl Ethyl Sulfide	ND	ND	ND
Diethyl Sulfide	ND	ND	ND
Di-iso-propyl Sulfide	ND	ND	ND
Di-n-propyl Sulfide	ND	ND	ND
Di-iso-butyl Sulfide	ND	ND	ND
Di-sec-butyl Sulfide	ND	ND	ND
Di-tert-butyl Sulfide	ND	ND	ND
Di-n-butyl Sulfide	ND	ND	ND
Unknown Sulfides	ND	ND	ND
Methyl Mercaptan	ND	ND	ND
Ethyl Mercaptan	ND	ND	ND
Isopropyl Mercaptan	ND	ND	ND
n-Propyl Mercaptan	ND	ND	ND
Isobutyl Mercaptan	ND	ND	ND
sec-Butyl Mercaptan	ND	ND	ND
tert-Butyl Mercaptan	ND	ND	ND
n-Butyl Mercaptan	ND	ND	ND
Isoamyl Mercaptan	ND	ND	ND
pri-Amyl Mercaptan	ND	ND	ND
n-Amyl Mercaptan	ND	ND	ND
Carbon Disulfide	ND	ND	1.8
Dimethyl Disulfide	ND	ND	ND
Methyl Ethyl Disulfide	ND	ND	ND
Diethyl Disulfide	ND	ND	ND
Di-iso-propyl Disulfide	ND	ND	ND
Di-n-propyl Disulfide	ND	ND	ND
Di-iso-butyl Disulfide	ND	ND	ND
Di-sec-butyl Disulfide	ND	ND	ND
Di-tert-butyl Disulfide	ND	ND	ND
Di-n-butyl Disulfide	ND	ND	ND
Unknown Disulfides	ND	ND	ND
Thiophene	ND	ND	ND
Thiophane	ND	ND	ND

Texas Brine - Belle Rose, Louisiana
Well Gas Sampling Results - MRAA Sampling Events

	ORW-19	ORW-28	ORW-1
	Sample Date: May 23, 2013	Sample Date: May 23, 2013	Sample Date: May 23, 2013
LHG Constituents			
SPL Sample ID	ORW-19	ORW-28	ORW-1
Pollutant	Mol %	Mol %	Mol %
Nitrogen	33.531	3.157	3.528
Carbon Dioxide	0.133	1.206	1.605
Methane	64.182	92.662	91.467
Ethane	1.538	2.151	2.435
Propane	0.436	0.590	0.632
Iso-butane	0.112	0.143	0.165
n-Butane	0.055	0.071	0.112
Iso-pentane	0.012	0.016	0.039
n-Pentane	0.001	0.004	0.013
Hexanes	ND	ND	0.004
Heptanes+	ND	ND	ND
Sulfides			
SPL Sample ID	ORW-19	ORW-28	ORW-1
Pollutant	ppm_w	ppm_w	ppm_w
Hydrogen Sulfide	<1.0	ND	ND
Carbonyl Sulfide	2.4	ND	ND
Dimethyl Sulfide	ND	ND	ND
Methyl Ethyl Sulfide	ND	ND	ND
Diethyl Sulfide	ND	ND	ND
Di-iso-propyl Sulfide	ND	ND	ND
Di-n-propyl Sulfide	ND	ND	ND
Di-iso-butyl Sulfide	ND	ND	ND
Di-sec-butyl Sulfide	ND	ND	ND
Di-tert-butyl Sulfide	ND	ND	ND
Di-n-butyl Sulfide	ND	ND	ND
Unknown Sulfides	ND	ND	ND
Methyl Mercaptan	ND	ND	ND
Ethyl Mercaptan	ND	ND	ND
Isopropyl Mercaptan	ND	ND	ND
n-Propyl Mercaptan	ND	ND	ND
Isobutyl Mercaptan	ND	ND	ND
sec-Butyl Mercaptan	ND	ND	ND
tert-Butyl Mercaptan	ND	ND	ND
n-Butyl Mercaptan	ND	ND	ND
Isoamyl Mercaptan	ND	ND	ND
pri-Amyl Mercaptan	ND	ND	ND
n-Amyl Mercaptan	ND	ND	ND
Carbon Disulfide	1.8	ND	ND
Dimethyl Disulfide	ND	ND	ND
Methyl Ethyl Disulfide	ND	ND	ND
Diethyl Disulfide	ND	ND	ND
Di-iso-propyl Disulfide	ND	ND	ND
Di-n-propyl Disulfide	ND	ND	ND
Di-iso-butyl Disulfide	ND	ND	ND
Di-sec-butyl Disulfide	ND	ND	ND
Di-tert-butyl Disulfide	ND	ND	ND
Di-n-butyl Disulfide	ND	ND	ND
Unknown Disulfides	ND	ND	ND
Thiophene	ND	ND	ND
Thiophane	ND	ND	ND

Texas Brine - Belle Rose, Louisiana
Well Gas Sampling Results - MRAA Sampling Events

	ORW-13	ORW-15	ORW-5
	Sample Date: May 23, 2013	Sample Date: May 23, 2013	Sample Date: May 23, 2013
LHG Constituents			
SPL Sample ID	ORW-13	ORW-15	ORW-5
Pollutant	Mol %	Mol %	Mol %
Nitrogen	5.448	2.897	3.807
Carbon Dioxide	1.036	1.820	1.484
Methane	91.204	92.189	91.547
Ethane	1.791	2.244	2.281
Propane	0.331	0.599	0.577
Iso-butane	0.078	0.152	0.142
n-Butane	0.057	0.092	0.096
Iso-pentane	0.028	0.021	0.033
n-Pentane	0.013	0.004	0.014
Hexanes	0.010	ND	0.012
Heptanes+	0.004	ND	0.007
Sulfides			
SPL Sample ID	ORW-13	ORW-15	ORW-5
Pollutant	ppm_w	ppm_w	ppm_w
Hydrogen Sulfide	ND	ND	<1.0
Carbonyl Sulfide	ND	ND	ND
Dimethyl Sulfide	ND	ND	ND
Methyl Ethyl Sulfide	ND	ND	ND
Diethyl Sulfide	ND	ND	ND
Di-iso-propyl Sulfide	ND	ND	ND
Di-n-propyl Sulfide	ND	ND	ND
Di-iso-butyl Sulfide	ND	ND	ND
Di-sec-butyl Sulfide	ND	ND	ND
Di-tert-butyl Sulfide	ND	ND	ND
Di-n-butyl Sulfide	ND	ND	ND
Unknown Sulfides	ND	ND	ND
Methyl Mercaptan	ND	ND	ND
Ethyl Mercaptan	ND	ND	ND
Isopropyl Mercaptan	ND	ND	ND
n-Propyl Mercaptan	ND	ND	ND
Isobutyl Mercaptan	ND	ND	ND
sec-Butyl Mercaptan	ND	ND	ND
tert-Butyl Mercaptan	ND	ND	ND
n-Butyl Mercaptan	ND	ND	ND
Isoamyl Mercaptan	ND	ND	ND
pri-Amyl Mercaptan	ND	ND	ND
n-Amyl Mercaptan	ND	ND	ND
Carbon Disulfide	ND	ND	ND
Dimethyl Disulfide	ND	ND	ND
Methyl Ethyl Disulfide	ND	ND	ND
Diethyl Disulfide	ND	ND	ND
Di-iso-propyl Disulfide	ND	ND	ND
Di-n-propyl Disulfide	ND	ND	ND
Di-iso-butyl Disulfide	ND	ND	ND
Di-sec-butyl Disulfide	ND	ND	ND
Di-tert-butyl Disulfide	ND	ND	ND
Di-n-butyl Disulfide	ND	ND	ND
Unknown Disulfides	ND	ND	ND
Thiophene	ND	ND	ND
Thiophane	ND	ND	ND

Texas Brine - Belle Rose, Louisiana
Well Gas Sampling Results - MRAA Sampling Events

	ORW-6	ORW-22	ORW-16
	Sample Date: May 23, 2013	Sample Date: May 23, 2013	Sample Date: May 23, 2013
LHG Constituents			
SPL Sample ID	ORW-6	ORW-22	ORW-16
Pollutant	Mol %	Mol %	Mol %
Nitrogen	2.926	3.136	3.971
Carbon Dioxide	1.194	1.499	1.083
Methane	92.489	92.082	91.873
Ethane	2.414	2.364	2.261
Propane	0.672	0.641	0.597
Iso-butane	0.169	0.158	0.135
n-Butane	0.103	0.094	0.065
Iso-pentane	0.026	0.020	0.013
n-Pentane	0.006	0.004	0.002
Hexanes	0.001	0.002	ND
Heptanes+	ND	ND	ND
Sulfides			
SPL Sample ID	ORW-6	ORW-22	ORW-16
Pollutant	ppm_w	ppm_w	ppm_w
Hydrogen Sulfide	ND	<1.0	ND
Carbonyl Sulfide	ND	ND	ND
Dimethyl Sulfide	ND	ND	ND
Methyl Ethyl Sulfide	ND	ND	ND
Diethyl Sulfide	ND	ND	ND
Di-iso-propyl Sulfide	ND	ND	ND
Di-n-propyl Sulfide	ND	ND	ND
Di-iso-butyl Sulfide	ND	ND	ND
Di-sec-butyl Sulfide	ND	ND	ND
Di-tert-butyl Sulfide	ND	ND	ND
Di-n-butyl Sulfide	ND	ND	ND
Unknown Sulfides	ND	ND	ND
Methyl Mercaptan	ND	ND	ND
Ethyl Mercaptan	ND	ND	ND
Isopropyl Mercaptan	ND	ND	ND
n-Propyl Mercaptan	ND	ND	ND
Isobutyl Mercaptan	ND	ND	ND
sec-Butyl Mercaptan	ND	ND	ND
tert-Butyl Mercaptan	ND	ND	ND
n-Butyl Mercaptan	ND	ND	ND
Isoamyl Mercaptan	ND	ND	ND
pri-Amyl Mercaptan	ND	ND	ND
n-Amyl Mercaptan	ND	ND	ND
Carbon Disulfide	ND	ND	ND
Dimethyl Disulfide	ND	ND	ND
Methyl Ethyl Disulfide	ND	ND	ND
Diethyl Disulfide	ND	ND	ND
Di-iso-propyl Disulfide	ND	ND	ND
Di-n-propyl Disulfide	ND	ND	ND
Di-iso-butyl Disulfide	ND	ND	ND
Di-sec-butyl Disulfide	ND	ND	ND
Di-tert-butyl Disulfide	ND	ND	ND
Di-n-butyl Disulfide	ND	ND	ND
Unknown Disulfides	ND	ND	ND
Thiophene	ND	ND	ND
Thiophane	ND	ND	ND

Texas Brine - Belle Rose, Louisiana
Well Gas Sampling Results - MRAA Sampling Events

	ORW-9	ORW-14	ORW-37
	Sample Date: May 23, 2013	Sample Date: May 23, 2013	Sample Date: May 24, 2013
LHG Constituents			
SPL Sample ID	ORW-9	ORW-14	ORW-37
Pollutant	Mol %	Mol %	Mol %
Nitrogen	3.781	4.738	4.770
Carbon Dioxide	1.099	1.249	1.299
Methane	91.559	91.180	90.442
Ethane	2.488	2.093	2.459
Propane	0.703	0.428	0.689
Iso-butane	0.188	0.105	0.180
n-Butane	0.125	0.088	0.116
Iso-pentane	0.040	0.047	0.034
n-Pentane	0.013	0.024	0.010
Hexanes	0.004	0.024	0.001
Heptanes+	ND	0.024	ND
Sulfides			
SPL Sample ID	ORW-9	ORW-14	ORW-37
Pollutant	ppm_w	ppm_w	ppm_w
Hydrogen Sulfide	ND	ND	ND
Carbonyl Sulfide	ND	ND	ND
Dimethyl Sulfide	ND	ND	ND
Methyl Ethyl Sulfide	ND	ND	ND
Diethyl Sulfide	ND	ND	ND
Di-iso-propyl Sulfide	ND	ND	ND
Di-n-propyl Sulfide	ND	ND	ND
Di-iso-butyl Sulfide	ND	ND	ND
Di-sec-butyl Sulfide	ND	ND	ND
Di-tert-butyl Sulfide	ND	ND	ND
Di-n-butyl Sulfide	ND	ND	ND
Unknown Sulfides	ND	ND	ND
Methyl Mercaptan	ND	ND	ND
Ethyl Mercaptan	ND	ND	ND
Isopropyl Mercaptan	ND	ND	ND
n-Propyl Mercaptan	ND	ND	ND
Isobutyl Mercaptan	ND	ND	ND
sec-Butyl Mercaptan	ND	ND	ND
tert-Butyl Mercaptan	ND	ND	ND
n-Butyl Mercaptan	ND	ND	ND
Isoamyl Mercaptan	ND	ND	ND
pri-Amyl Mercaptan	ND	ND	ND
n-Amyl Mercaptan	ND	ND	ND
Carbon Disulfide	<1.0	ND	ND
Dimethyl Disulfide	ND	ND	ND
Methyl Ethyl Disulfide	ND	ND	ND
Diethyl Disulfide	ND	ND	ND
Di-iso-propyl Disulfide	ND	ND	ND
Di-n-propyl Disulfide	ND	ND	ND
Di-iso-butyl Disulfide	ND	ND	ND
Di-sec-butyl Disulfide	ND	ND	ND
Di-tert-butyl Disulfide	ND	ND	ND
Di-n-butyl Disulfide	ND	ND	ND
Unknown Disulfides	ND	ND	ND
Thiophene	ND	ND	ND
Thiophane	ND	ND	ND

Texas Brine - Belle Rose, Louisiana
Well Gas Sampling Results - MRAA Sampling Events

	ORW-36	BC-2
	Sample Date: May 24, 2014	Sample Date: May 24, 2015
LHG Constituents		
SPL Sample ID		
Pollutant	Mol %	Mol %
Nitrogen	4.925	5.612
Carbon Dioxide	1.670	1.598
Methane	91.135	90.418
Ethane	1.696	1.862
Propane	0.422	0.424
Iso-butane	0.100	0.068
n-Butane	0.043	0.018
Iso-pentane	0.008	ND
n-Pentane	0.001	ND
Hexanes	ND	ND
Heptanes+	ND	ND
Sulfides		
SPL Sample ID		
Pollutant	ppm_w	ppm_w
Hydrogen Sulfide	ND	ND
Carbonyl Sulfide	ND	ND
Dimethyl Sulfide	ND	ND
Methyl Ethyl Sulfide	ND	ND
Diethyl Sulfide	ND	ND
Di-iso-propyl Sulfide	ND	ND
Di-n-propyl Sulfide	ND	ND
Di-iso-butyl Sulfide	ND	ND
Di-sec-butyl Sulfide	ND	ND
Di-tert-butyl Sulfide	ND	ND
Di-n-butyl Sulfide	ND	ND
Unknown Sulfides	ND	ND
Methyl Mercaptan	ND	ND
Ethyl Mercaptan	ND	ND
Isopropyl Mercaptan	ND	ND
n-Propyl Mercaptan	ND	ND
Isobutyl Mercaptan	ND	ND
sec-Butyl Mercaptan	ND	ND
tert-Butyl Mercaptan	ND	ND
n-Butyl Mercaptan	ND	ND
Isoamyl Mercaptan	ND	ND
pri-Amyl Mercaptan	ND	ND
n-Amyl Mercaptan	ND	ND
Carbon Disulfide	ND	ND
Dimethyl Disulfide	ND	ND
Methyl Ethyl Disulfide	ND	ND
Diethyl Disulfide	ND	ND
Di-iso-propyl Disulfide	ND	ND
Di-n-propyl Disulfide	ND	ND
Di-iso-butyl Disulfide	ND	ND
Di-sec-butyl Disulfide	ND	ND
Di-tert-butyl Disulfide	ND	ND
Di-n-butyl Disulfide	ND	ND
Unknown Disulfides	ND	ND
Thiophene	ND	ND
Thiophane	ND	ND

Texas Brine - Belle Rose, Louisiana
Gas Seep Sampling Results - MRAA Sampling Events

	NSDBS-26	NSDBS-64	NSDBS-14
	Sample Date: May 23, 2013	Sample Date: May 23, 2013	Sample Date: May 23, 2013
LHG Constituents			
SPL Sample ID	BS-26	BS-64	BS-14
Pollutant	Mol %	Mol %	Mol %
Nitrogen	11.430	7.286	47.501
Carbon Dioxide	1.392	2.664	1.656
Methane	84.579	87.227	50.349
Ethane	1.945	2.021	0.358
Propane	0.389	0.523	0.093
Iso-butane	0.092	0.139	0.027
n-Butane	0.078	0.092	0.010
Iso-pentane	0.039	0.032	0.004
n-Pentane	0.021	0.011	0.001
Hexanes	0.021	0.005	0.001
Heptanes+	0.014	ND	ND
Sulfides			
SPL Sample ID	BS-26	BS-64	BS-14
Pollutant	ppm_w	ppm_w	ppm_w
Hydrogen Sulfide	ND	1.1	<1.0
Carbonyl Sulfide	ND	ND	<1.0
Dimethyl Sulfide	ND	ND	ND
Methyl Ethyl Sulfide	ND	ND	ND
Diethyl Sulfide	ND	ND	ND
Di-iso-propyl Sulfide	ND	ND	ND
Di-n-propyl Sulfide	ND	ND	ND
Di-iso-butyl Sulfide	ND	ND	ND
Di-sec-butyl Sulfide	ND	ND	ND
Di-tert-butyl Sulfide	ND	ND	ND
Di-n-butyl Sulfide	ND	ND	ND
Unknown Sulfides	ND	ND	ND
Methyl Mercaptan	ND	ND	ND
Ethyl Mercaptan	ND	ND	ND
Isopropyl Mercaptan	ND	ND	ND
n-Propyl Mercaptan	ND	ND	ND
Isobutyl Mercaptan	ND	ND	ND
sec-Butyl Mercaptan	ND	ND	ND
tert-Butyl Mercaptan	ND	ND	ND
n-Butyl Mercaptan	ND	ND	ND
Isoamyl Mercaptan	ND	ND	ND
pri-Amyl Mercaptan	ND	ND	ND
n-Amyl Mercaptan	ND	ND	ND
Carbon Disulfide	ND	ND	ND
Dimethyl Disulfide	ND	ND	ND
Methyl Ethyl Disulfide	ND	ND	ND
Diethyl Disulfide	ND	ND	ND
Di-iso-propyl Disulfide	ND	ND	ND
Di-n-propyl Disulfide	ND	ND	ND
Di-iso-butyl Disulfide	ND	ND	ND
Di-sec-butyl Disulfide	ND	ND	ND
Di-tert-butyl Disulfide	ND	ND	ND
Di-n-butyl Disulfide	ND	ND	ND
Unknown Disulfides	ND	ND	ND
Thiophene	ND	ND	ND
Thiophane	ND	ND	ND

Texas Brine - Belle Rose, Louisiana
Gas Seep Sampling Results - MRAA Sampling Events

	NSDBS-6	NSDBS-23	NSDBS-15
	Sample Date: May 23, 2013	Sample Date: May 23, 2013	Sample Date: May 23, 2013
LHG Constituents			
SPL Sample ID	BS-6	BS-23	BS-15
Pollutant	Mol %	Mol %	Mol %
Nitrogen	18.005	7.849	34.565
Carbon Dioxide	1.567	1.477	1.043
Methane	78.131	87.581	62.257
Ethane	1.641	2.345	1.600
Propane	0.448	0.454	0.312
Iso-butane	0.118	0.104	0.072
n-Butane	0.060	0.092	0.064
Iso-pentane	0.019	0.045	0.032
n-Pentane	0.005	0.022	0.017
Hexanes	0.004	0.022	0.021
Heptanes+	0.002	0.009	0.017
Sulfides			
SPL Sample ID	BS-6	BS-23	BS-15
Pollutant	ppm_w	ppm_w	ppm_w
Hydrogen Sulfide	ND	ND	<1.0
Carbonyl Sulfide	ND	ND	ND
Dimethyl Sulfide	ND	ND	ND
Methyl Ethyl Sulfide	ND	ND	ND
Diethyl Sulfide	ND	ND	ND
Di-iso-propyl Sulfide	ND	ND	ND
Di-n-propyl Sulfide	ND	ND	ND
Di-iso-butyl Sulfide	ND	ND	ND
Di-sec-butyl Sulfide	ND	ND	ND
Di-tert-butyl Sulfide	ND	ND	ND
Di-n-butyl Sulfide	ND	ND	ND
Unknown Sulfides	ND	ND	ND
Methyl Mercaptan	ND	ND	ND
Ethyl Mercaptan	ND	ND	ND
Isopropyl Mercaptan	ND	ND	ND
n-Propyl Mercaptan	ND	ND	ND
Isobutyl Mercaptan	ND	ND	ND
sec-Butyl Mercaptan	ND	ND	ND
tert-Butyl Mercaptan	ND	ND	ND
n-Butyl Mercaptan	ND	ND	ND
Isoamyl Mercaptan	ND	ND	ND
pri-Amyl Mercaptan	ND	ND	ND
n-Amyl Mercaptan	ND	ND	ND
Carbon Disulfide	ND	ND	ND
Dimethyl Disulfide	ND	ND	ND
Methyl Ethyl Disulfide	ND	ND	ND
Diethyl Disulfide	ND	ND	ND
Di-iso-propyl Disulfide	ND	ND	ND
Di-n-propyl Disulfide	ND	ND	ND
Di-iso-butyl Disulfide	ND	ND	ND
Di-sec-butyl Disulfide	ND	ND	ND
Di-tert-butyl Disulfide	ND	ND	ND
Di-n-butyl Disulfide	ND	ND	ND
Unknown Disulfides	ND	ND	ND
Thiophene	ND	ND	ND
Thiophane	ND	ND	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					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 (%)
05/31/2013 05:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2
05/31/2013 06:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2
05/31/2013 07:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2
05/31/2013 08:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	<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	20.8	<1.0	<1.0	<1.0	0.0	20.7
05/31/2013 09:00:00 AM	<1.0	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	0.0	0.0	0.0	0.0	20.6	<1.0	0.0	0.0	0.0	20.7
05/31/2013 10:00:00 AM	<1.0	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	0.0	0.0	0.0	0.0	20.8	<1.0	0.0	0.0	0.0	20.9
05/31/2013 11:00:00 AM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 12:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 01:00:00 PM	<1.0	0.0	<1.0	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	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 02:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<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	<1.0	0.0	0.0	0.0	20.9
05/31/2013 03:00:00 PM	<1.0	0.0	<1.0	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	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 04:00:00 PM	<1.0	0.0	<1.0	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	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 05:00:00 PM	<1.0	0.0	<1.0	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	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 06:00:00 PM	<1.0	0.0	<1.0	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	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 07:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 08:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 09:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 10:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/31/2013 11:00:00 PM	<1.0	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/01/2013 12:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/01/2013 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	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
06/01/2013 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	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
06/01/2013 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	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
06/01/2013 04:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/01/2013 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	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

Notes:

Daily Action Summary

June 1, 2013

Stationary Air Monitoring

- Eric Rucinski onsite from 08:10 – 09:10. Changed out the monitors between 08:27 and 08:54. Collected data from the monitoring database and forwarded to Jill Martin in the Baton Rouge office for processing.
- Pete Hyatt IV of Code Red (monitor sub-contractor) onsite from 07:00 to 11:00. 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 (%)
06/01/2013 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	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
06/01/2013 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	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
06/01/2013 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	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
06/01/2013 04:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/01/2013 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	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
06/01/2013 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	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
06/01/2013 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	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
06/01/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
06/01/2013 09:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<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	0.0	0.0	<1.0	0.0	20.9
06/01/2013 10:00:00 AM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 11:00:00 AM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 12:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 01:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 02:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 03:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 04:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 05:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 06:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 07:00:00 PM	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	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 08:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 09:00:00 PM	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	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 10:00:00 PM	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/01/2013 11:00:00 PM	0.0	<1.0	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 12:00:00 AM	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	<1.0	0.0	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

*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 (%)
06/01/2013 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	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
06/01/2013 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	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
06/01/2013 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	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
06/01/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
06/01/2013 09:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<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	0.0	0.0	<1.0	0.0	20.9
06/01/2013 10:00:00 AM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 11:00:00 AM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 12:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 01:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 02:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 03:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 04:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 05:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 06:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 07:00:00 PM	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	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 08:00:00 PM	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	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 09:00:00 PM	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	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/01/2013 10:00:00 PM	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/01/2013 11:00:00 PM	0.0	<1.0	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 12:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 01:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 02:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/02/2013 03:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 04:00:00 AM	0.0	<1.0	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 05:00:00 AM	0.0	<1.0	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9

Notes:

Daily Action Summary

June 2, 2013

Stationary Air Monitoring

- Eric Rucinski onsite from 08:00 – 09:15. Changed out the monitors between 08:30 and 08:54. Collected data from the monitoring database and forwarded to Jill Martin in the Baton Rouge office for processing.
- Pete Hyatt IV of Code Red (monitor sub-contractor) onsite from 07:00 to 11:00. Assisted in battery change outs and maintenance of the monitoring equipment.

NOTE: Pad #9 has been an ambient air monitoring location since Sage originally deployed monitors on August 17, 2012. The monitoring location was originally located on the drill rig boom and named WH-1. The drill rig was demobilized on October 1, 2012, thus the monitoring from this location was suspended.

On October 15, 2012, at the request of TBC personnel, ambient air monitoring resumed at Pad #9 as WH-1. The monitor was placed at an easily accessible place on Pad #9. On October 16, 2012, at the request of TBC personnel, an additional monitoring location on Pad #9 was added. The original WH-1 site was renamed to WH-1A and the new additional monitoring location was named WH-1B. On November 20, 2012, monitoring at one of the two locations on Pad #9 was suspended, and monitoring began at the relief well, RW-1. The remaining monitoring location at Pad #9 was renamed to OG3A-1, as documented in the November 20, 2012 Daily Action Summary.

The daily hourly average data summaries, beginning October 15, 2012, should have described all monitoring locations on Pad #9 as “On Pad #9” versus “On Drill Rig Boom.” Beginning June 3, 2013, the daily hourly average data summaries will reflect this change.

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 Pad #9 OG 3A-1					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 (%)
06/02/2013 01:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 02:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
06/02/2013 03:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 04:00:00 AM	0.0	<1.0	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 05:00:00 AM	0.0	<1.0	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 06:00:00 AM	0.0	<1.0	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 07:00:00 AM	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	<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	0.0	0.0	0.0	20.9
06/02/2013 08:00:00 AM	0.0	<1.0	0.0	0.0	20.9	<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	0.0	0.0	20.9
06/02/2013 09:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	1.4	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	0.0	0.0	0.0	20.9
06/02/2013 10:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 11:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 12:00:00 PM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 01:00:00 PM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 02:00:00 PM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 03:00:00 PM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 04:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
06/02/2013 05:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 06:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 07:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 08:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 09:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 10:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 11:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/03/2013 12:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	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 Pad #9					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 (%)
06/02/2013 05:00:00 AM	0.0	<1.0	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 06:00:00 AM	0.0	<1.0	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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
06/02/2013 07:00:00 AM	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	<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	0.0	0.0	0.0	20.9
06/02/2013 08:00:00 AM	0.0	<1.0	0.0	0.0	20.9	<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	0.0	0.0	20.9
06/02/2013 09:00:00 AM	0.0	<1.0	0.0	0.0	20.9	0.0	1.4	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	0.0	0.0	0.0	20.9
06/02/2013 10:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 11:00:00 AM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 12:00:00 PM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 01:00:00 PM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 02:00:00 PM	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	<1.0	0.0	0.0	0.0	20.9
06/02/2013 03:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 04:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
06/02/2013 05:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 06:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 07:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 08:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 09:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 10:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/02/2013 11:00:00 PM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/03/2013 12:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/03/2013 01:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/03/2013 02:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/03/2013 03:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/03/2013 04:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
06/03/2013 05:00:00 AM	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	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9

Notes:

RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Pete Smith

Date: 05/30/13

Company: RESPEC

Job #: 02241

Personnel	Company	Job Title
Peter Smith, CPG	RESPEC	Staff Geologist
Eric Krantz, PE	RESPEC	Staff Engineer

Time Onsite:

Start Time: 07:00

End Time: 17:00

DAILY ACTIVITY:

07:30 contractor meeting.

Instrumentation program:

Assemble instrumentation units (Krantz); hook up static IP address; print map of instrumentation locations.

G-1 drilling program:

Drilling oversight (Smith). Wait on cement.

PROPOSED SCHEDULE:

Instrumentation program:

Assemble instrumentation units.

G-1 drilling program:

Drilling oversight. Wait on cement.

Initials: PHS

RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Pete Smith

Date: 05/31/13

Company: RESPEC

Job #: 02241

Personnel	Company	Job Title
Peter Smith, CPG	RESPEC	Staff Geologist
Eric Krantz, PE	RESPEC	Staff Engineer

Time Onsite:

Start Time: 07:00

End Time: 17:00

DAILY ACTIVITY:

07:30 contractor meeting.

Instrumentation program:

Build instrumentation units (Krantz); configure NL200 network link adaptor; network configurations.

G-1 drilling program:

Drilling oversight (Smith). Wait on cement.

PROPOSED SCHEDULE:

Instrumentation program:

Off site.

G-1 drilling program:

Drilling oversight. Collect/log chip samples from shaker.

Initials: PHS

ME&A Daily Action Summary

May 31, 2013

Subsidence Survey:

- No Work Done

Sinkhole Perimeter/Hydrographic Survey:

- No Work Done

Support Sinkhole Cleanup

- No Work Done

Misc. Survey Work

- Arrived @ 9:00 am
- X, Y, & Z coordinates of various GOW, GP, and ORW wells.
- Depart @ 3:30 pm

ME&A Daily Action Summary

June 1, 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

ME&A Daily Action Summary

June 2, 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