INCIDENT ACTION PLAN

Be brief and concise with your entries

Bayou Corne Sink Hole Company Supervisory From 4/1/13 To 4/2/13 1.0 SITUATION Disease, community, environment method, map, weather reports, Streps, appreciation, warnings, addrift CURRENT PREDICTION PREDICTION 7 PREDICTIVES (or MISSION) CURRENT Objective 1 - Gas Monitoring: 3 Gas Monitors have been set up in the field and are obtaining data on a continuous basis. 3 Gas Monitors have been set up in the field and are obtaining data on a continuous basis. PROMPTS: (nor MISSION) 3 Gas Monitors have been set up in the field and are obtaining data on a continuous basis. 3 Gas Monitors have been set up in the field and are obtaining data on a continuous basis. PREPERVCE: Appreciation, varings, addrift The monitors are running on batteries which must be changed out every morning. Three monitors are located in the swamp and are required to be reached via airboats launched from TBC facilities. The continuous monitoring data is collected at an office trailer located at Texas Brine Grand Bayou Facility. Monitoring the information on a 24 hours basis. Monitoring is being recorded for LEL, VOC, H2S and O2. Respect Mining & Energy: In-place inclinometers and tilt meter monitoring system, weekly report Objective 2- Elevation survey taking place once a week. Objective 1- Sinkhole observation. Continuing to monitor slough on the sinkhole. Operations are being performed on the sinkhole today. ALTERNATE Safety Information: See Attached Safe Work Rules Reference IAP dated & 39/12 Additional	Location		Control Level	Operational Period	
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	Strategies & tactics		ditional to our Safe Work Rule	es for this proj	

REFERENCE: Appreciation, Control Options	Inspect location for flammability Daily Safety Meetings PPE Required on site: Respirator w/ VOC Cartridge, Gloves for sampling, eye protection, life preservers, hearing protection.
GROUPINGS	ΝΑ
TASKS Including PR & Media	Same as above
COORDINATING INSTRUCTIONS PROMPTS: Timings, routes, assembly areas, staging areas	Texas Brine Grand Bayou Facility will be used as staging area.
4.0 ADMINISTRAT	ION (Logistics support)
PROMPTS: Unit names, locations stand by, enroute)	, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised,
SUPPLY WHO, WHAT, WHERE, WHEN of resources not readily available	NA
GROUND SUPPORT Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance	ΝΑ
COMMUNICATIONS Installation, maintenance, technical advice	Cell Phone & Landline Communications: Kenneth Blanchard – Area Manager – 985- kblanchard@texasbrine.com Scott Borne – Facility Manager – 985- sborne@texasbrine.com Joel Miller, PE – Consultant – 337 Joel Miller, PE – Consultant – 337 Bruce Martin – Operations/PR – 713- Bruce Martin – Operations/PR – 713- Mark Cartwright – Technical/Engineering – 713- Mark Cartwright – 713- Mark Cartwright – 713- Mark Cartwright – 713- Mark Cartwright – 713- Mar

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	mcartwright@unitedbrine.com Scott Whitelaw – Environmental/Safety – 713- swhitelaw@tum.com	
STAGING AREA/ FCP Setting up, communications, staffing	Texas Brine Grand Bayou Facility 1301 Hwy 70 South, Belle Rose, La 70341	
5.0 ADMINISTRAT	ION (Logistics services)	
PROMPTS: Unit names, locations stand by, enroute)	s, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised,	
FACILITIES Security, waste, cleaning	ΝΑ	
CATERING	NA	
OH&S/MEDICAL Medical plan, first aid plan	Call 911	
FINANCE	ΝΑ	
TRAVEL	NA	
INDUCTION/ TRAINING	NA	
ACCOMMODATION	NA	
6.0 CONTROL, COORDINATION & COMMUNICATION		
CONTROL & COORDINATION STRUCTURE	Plant Management Supervision / Contractor Work	

NA

REFERENCE Structural Chart

COORDINATION &

LIAISON	
Local knowledge, police, agency reps, emergency mgt reps	
COMMUNICATIONS	Plant Management – Contractor Communication via Cell Phone
PROMPTS Communications structure, operational comms plan, information mgt	

	EXTRAS			
Attachments PROMPTS:: maps, weather, organisational charts, resources, comms diagram	Current Weather Safe Work Rules			
Plan developers PROMPTS PO, Logs Mgr, Controller	NA			
Approval Controller, Ops Director	TBC Company Rep: William Booher FOSC: SOSC: POSC:			

Belle Rose, Louisiana, United States

Today's Forecast: Monday, 1 Apr 2013

80°F 59°F

Sky Conditions: Isolated Thunderstorms Sunrise: 6:53 AM Sunset: 7:23 PM Wind: WSW (258°) @ 4Mph Precipitation Probability: 30%



View your complete Local Weather »

Extended Forecast Full 10-Day Forecast »



Detailed Forecast

Today:

A mix of clouds and sun with the chance of an isolated thunderstorm in the afternoon. High near 80F. Winds light and variable. Chance of rain 30%.

Tonight: Isolated thunderstorms during the evening, then skies turning partly cloudy overnight. Low 59F. Winds light and variable. Chance of rain 30%.

Tomorrow:

Mix of sun and clouds. Highs in the upper 70s and lows in the low 60s.

IAP [Bayou Corne Sink Hole] – V# Version date: 3 May 2010 Incident Action Plan template V3 – 3 May 2010 (INT10/24125) ١

TBC Oxy Grand Bayou Sinkhole Management Plan

Phase Two- Crude Oil/Vegetation/Debris Removal

10-12-2012

(THIS PLAN CAN BE ADJUSTED BY TBC FOR WEATHER RELATED ISSUES, OR SITE CONDITIONS)

This plan is being followed as an approach to sinkhole management. The primary focus for this plan is to:

- Recover liquid hydrocarbons that are found on the surface of the sinkhole. By removing the free phase Hydrocarbons that are found on the surface of the sinkhole, off-site migration of these Hydrocarbons will be greatly reduced. Thus, limiting the impacts of the Hydrocarbons to the sinkhole surface and the immediate area. Additionally, the removal of the free phase Hydrocarbons will greatly reduce the "smell" associated with the sinkhole.
- 2. To further understand the dynamics of the sinkhole, through profiling and visual observation of the surface of the sinkhole.

Phase One focused on the removal of floating vegetation and debris within the sinkhole. To date, the vast majority of floating vegetation and debris has been cleaned and cleared off of the surface of the sinkhole area. On October 8, 2012, we began to bring on site equipment and staffing to move into Phase Two of the Sinkhole Management, Crude Oil Removal.

Crude Oil removal will take place on near the mat road that was constructed on September 24, 2012. Texas Brine began reconstruction of the mat road at well pad #3, going toward the sinkhole. This road has been constructed of river sand, filter fabric and wooden mats. The mat road has been constructed in the previous footprint, to the outside and on the eastern side of the sinkhole.

As discussed in the Phase One Plan for Sinkhole Management, the mat road will play a vital part in our recovery of oiled vegetation and crude oil removal. Texas Brine plans to collect crude oil via physical means with skimmers, and vacuums. We will also use Air Boats to sweep the surface of the sinkhole. Texas Brine has fabricated an oil collection box that will be placed at the end of the mat road, in the water, that will assist in the collection of crude oil.

Product that is recovered will be placed into a frac tank and stored for disposal. These Frac tanks are stored near the sinkhole in an orderly fashion. The vacuum trucks that are used are inspected for leaks and drips prior to leaving the facility for disposal. Occasionally, the Long-reach boom and operator may have to go back out on the mat road to sweep in additional debris that has been swept in by the air boats. The additional debris will be handled as discussed in Phase One. As a safety precaution, the truck driver will be instructed to remain in his vehicle with on ready should any movement be observed on the sinkhole. The truck driver will remain at/in his vehicle during the loading process. A spotter will be placed in a stationary location on Well Pad # 3 to watch for any movement of trees or debris in the sinkhole. Additionally, there will be supervision of the project entire project by TBC Employees.

Texas Brine is following the advice offered by LA DNR and pursuing the use of Oil Gator, as an in-situ remediation of crude oil in hard to reach places or in marginal places where oil may have escaped the containment boom. Texas Brine will not proceed with the use of this material or other materials until approval has been issued by the lead agency on this incident. The use of any such absorbent material will be used to augment the traditional physical oil removal procedures. The proposed use of Oil Gator will not replace the use of traditional physical oil spill removal.

If any personnel or contractors are allowed onto the sinkhole, then personal air monitoring devises will be used to monitor air quality/exposure while on the siinkhole.

The safe execution of this activity is the goal of TBC. This is why every person entering the property, must wear proper PPE (Hard Hat, Long Pants, Steel Toed Boots, and Safety Glasses).



April 1, 2013

Mr. Bruce Martin Vice President of Operations Texas Brine Company, LLC 4800 San Felipe Houston, TX 77056

Dear Mr. Martin:

RE: In-Place Inclinometer, Tiltmeter, and Water-Level Monitoring System, Napoleonville Dome Weekly Report: March 23, 2013, Through March 29, 2013

RESPEC is pleased to submit this weekly report on the in-place inclinometer (IPI), tiltmeter, and water-level monitoring system installed around the sinkhole located near the western flank of the Napoleonville Dome, Assumption Parish, Louisiana. Water-level data in this report and the attached Excel file are submitted in response to Directive #5 contained in the October 11, 2012, Third Amendment to Declaration of Emergency and Directive from the Department of Natural Resources Office of Conservation. IPI and tiltmeter data are also attached as Excel files.

Monitoring locations are illustrated in Figure 1. Graphs illustrating the tilt data, as recorded by each instrument, are provided in Figures 2 through 4. The IPI data for the X-directions and Y-directions are plotted separately in Figures 2 and 3, respectively. The tiltmeter data for both the X- and Y-directions are plotted in Figure 4. A condition reflecting no changes in ground movement plots as a horizontal line on these graphs. Note that the instruments installed are very sensitive; they can measure ground tilt to less than 1/1,000 of a degree. Inclinometer alarm levels are set at ± 1.0 degree and tiltmeter alarms are set at ± 0.5 degree.

IPI-3 has been slowly tilting toward the sinkhole over the past several weeks. On March 30 at 8:45 a.m., the system sent an amber alarm when the X-direction tilt value exceeded 1.0000 degree. All alarm recipients received the alarm either by text message or email. This constitutes a successful test of the early-warning system. Because of the expansion of the sinkhole threatening IPI-3, we are planning to move the instrument to the northwest during the week of April 1. The IPI-3 datum will be zeroed at that time.

Figure 5 shows a zoomed-in view of several IPI records focused on March 24. Several tiltmeters measured movement beginning at 14:30 with a spike in data at 16:30 in IPI-4 and IPI-3.

Figure 6 shows water levels recorded at Rig Access Road and Pad 3. Figure 7 shows water levels recorded at Rig Access Road and IPI-2 (Rig Access Road water level is shown in both figures for comparison to the other sites). Figure 8 shows water levels with respect to zero

datum as of March 23, 2013, at 12 a.m. As swamp water levels continue to drop, the location where Pad 3 transducer is positioned has become too shallow to measure water levels. The Pad 3 transducer will be repositioned in deeper water in the coming week.

Rig Access Road water levels indicate a 0.04 foot subsidence with respect to IPI-2. Figure 9 illustrates these changes by comparing the difference in water levels at IPI-2 and Rig Access Road. Water-level data indicate that subsidence at Rig Access Road is slowing when compared to the previous week's rates. Note that the transducer mounting post at Rig Access Road is driven into native soils approximately 20 to 30 feet from the edge of fill used to construct the new berm.

Sincerely,

Eric L. Krantz Engineer

ELK:llf

Enclosure

cc: Mr. Mark Cartwright, Texas Brine Company, LLC Mr. Scott Borne, Texas Brine Company, LLC Project Central File 2153 — Category C



Figure 1. Monitoring Locations.

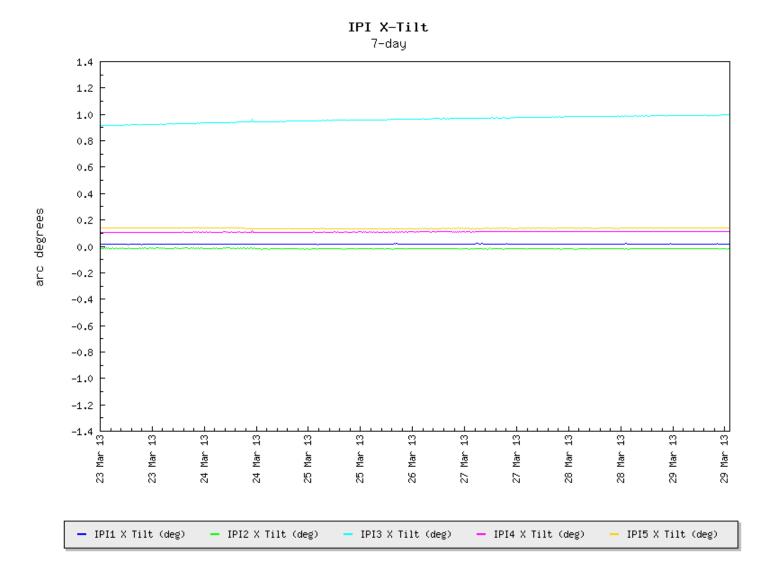


Figure 2. Inclinometer X-Direction Temporal Trends.

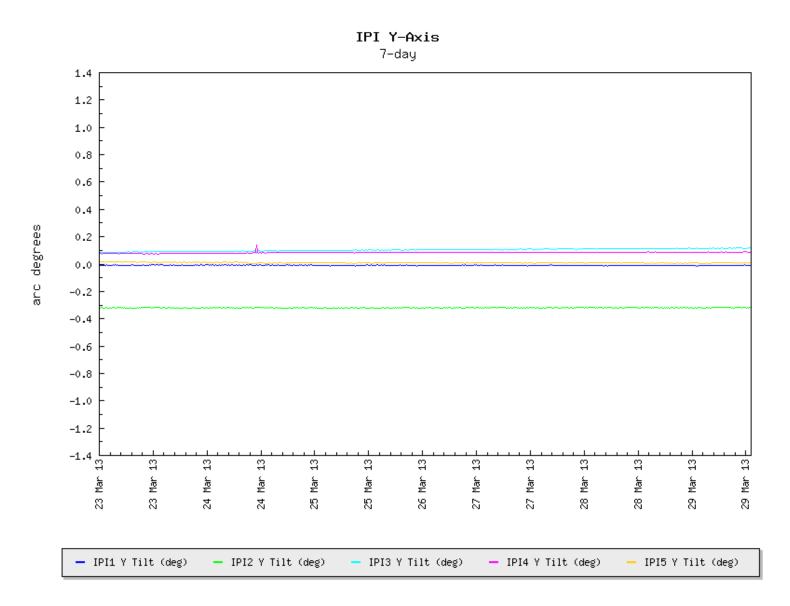
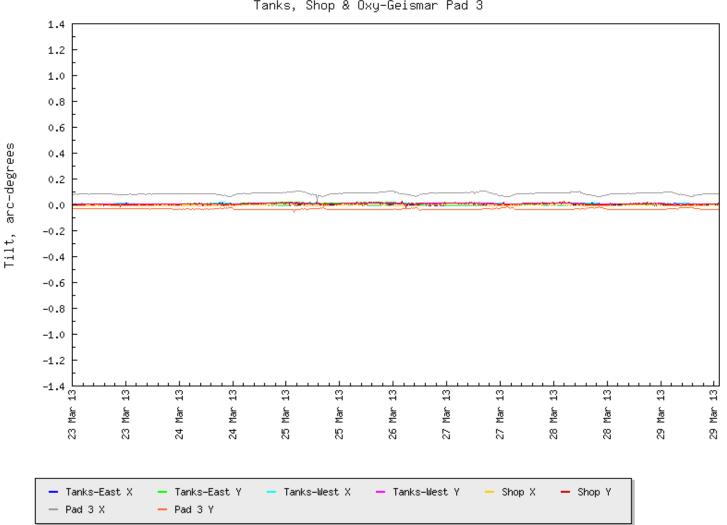


Figure 3. Inclinometer Y-Direction Temporal Trends.



TiltTanks, Shop & Oxy-Geismar Pad 3

Figure 4. Tiltmeter Temporal Trends.

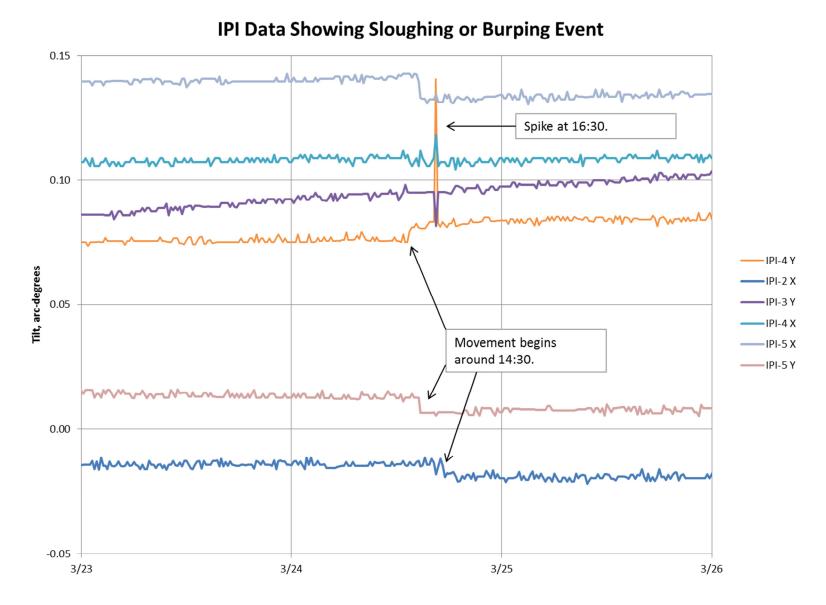


Figure 5. Zoomed-In View of Several Tilt Records Showing Possible Sloughing or Burping Event.

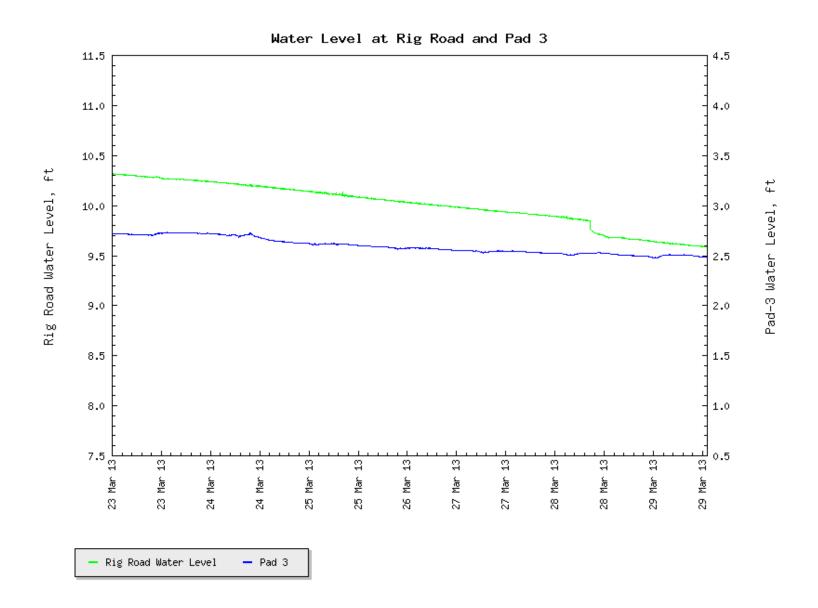


Figure 6. Water-Level Temporal Trends Comparing Rig Access Road Data to Pad 3 Data.

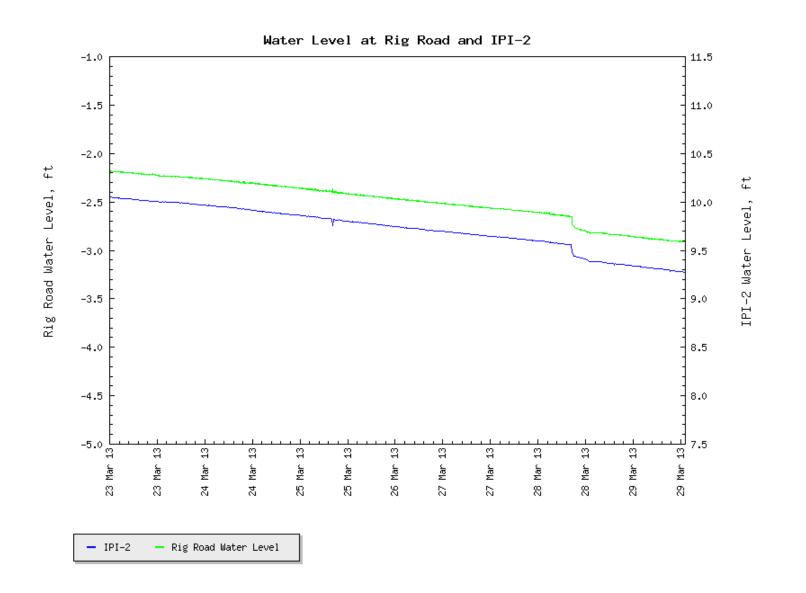


Figure 7. Water-Level Temporal Trends Comparing Rig Access Road to IPI-2 Data.

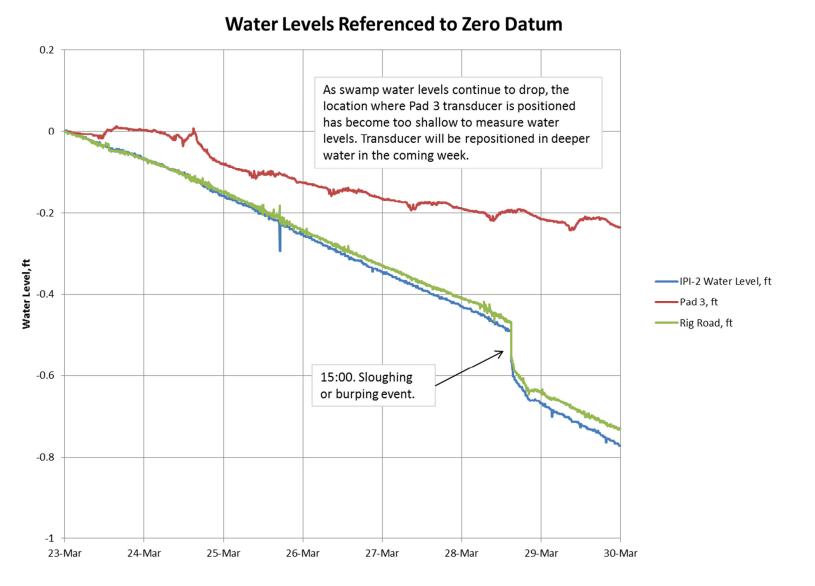


Figure 8. Water Levels Referenced to Zero Datum on March 23, 2013.

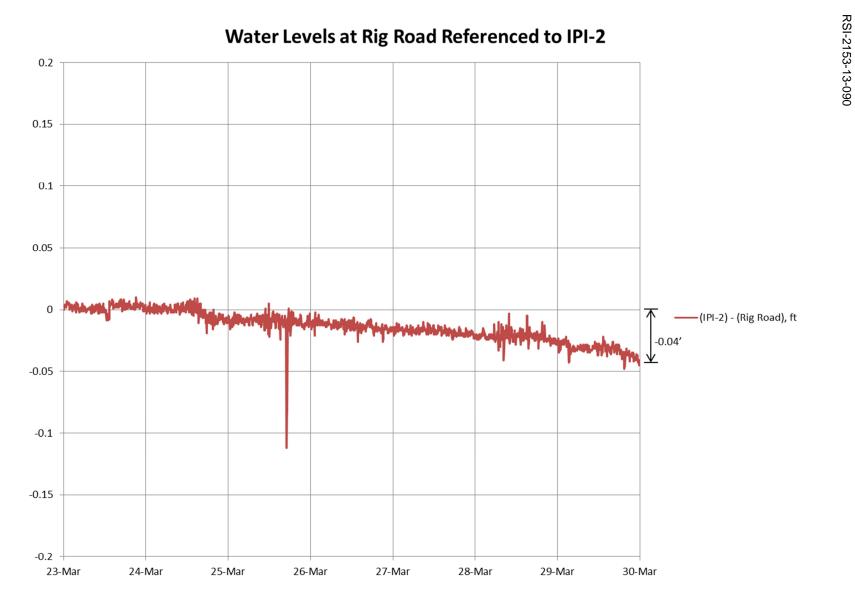


Figure 9. Difference in Water Levels Showing Subsidence at the Rig Access Road Transducer.