

INCIDENT ACTION PLAN

Be brief and concise with your entries

Location Bayou Corne Sink Hole	Control Level Company Supervisory	Operational Period From 3/4/13 To 3/5/13
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1.0 SITUATION Disease, community, environment PROMPTS: Weather, disease trends, Resources, Hazards & safety REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts	CURRENT Sunny
	PREDICTION Partly Cloudy. 30% chance of precipitation. High Temperature near 71.

2.0 OBJECTIVES (or MISSION) PROMPTS: Time & space REFERENCE: Appreciation – control options, courses open to disease	CURRENT Objective 1 - Gas Monitoring: 3 Gas Monitors have been set up in the field and are obtaining data on a continuous basis. 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. Respec Mining & Energy: In-place inclinometers and tilt meter monitoring system, weekly report Objective 2- Elevation survey taking place once a week. Objective 3- Sinkhole observation. Continuing to monitor slough in near the southwest corner/ Light bubbling. No debris removal from the sinkhole today.
	ALTERNATE

3.0 EXECUTION add safety information as appropriate
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GENERAL OUTLINE PROMPTS: Strategies & tactics (current/proposed/alternate)	Safety Information: See Attached Safe Work Rules Reference IAP dated 8/9/12 Additional to our Safe Work Rules for this project we are adding the awareness of insects, reptiles and animals.
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<p>REFERENCE: Appreciation, Control Options</p>	<p>Inspect location for flammability Daily Safety Meetings PPE Required on site: Respirator w/ VOC Cartridge, Gloves for sampling, eye protection, life preservers, hearing protection.</p>
<p>GROUPINGS</p>	<p>NA</p>
<p>TASKS Including PR & Media</p>	<p>Same as above</p>
<p>COORDINATING INSTRUCTIONS</p> <p>PROMPTS: Timings, routes, assembly areas, staging areas</p>	<p>Texas Brine Grand Bayou Facility will be used as staging area.</p>
<p>4.0 ADMINISTRATION (Logistics support)</p> <p>PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)</p>	
<p>SUPPLY WHO, WHAT, WHERE, WHEN of resources not readily available</p>	<p>NA</p>
<p>GROUND SUPPORT Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance</p>	<p>NA</p>
<p>COMMUNICATIONS Installation, maintenance, technical advice</p>	<p>Cell Phone & Landline Communications: Kenneth Blanchard – Area Manager – 985-██████████ (985-██████████) kblanchard@texasbrine.com Scott Borne – Facility Manager – 985-██████████ (985-██████████) sborne@texasbrine.com Joel Miller, PE – Consultant – 337-██████████ (337-██████████) joel.miller@cox-internet.com Bruce Martin – Operations/PR – 713-██████████ (281-██████████) bmartin@texasbrine.com Mark Cartwright – Technical/Engineering – 713-██████████ (281-██████████)</p>

	mcartwright@unitedbrine.com Scott Whitelaw – Environmental/Safety – 713- [REDACTED] (713- [REDACTED]) 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 ADMINISTRATION (Logistics services) PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)	
FACILITIES Security, waste, cleaning	NA
CATERING	NA
OH&S/MEDICAL Medical plan, first aid plan	Call 911
FINANCE	NA
TRAVEL	NA
INDUCTION/ TRAINING	NA
ACCOMMODATION	NA
6.0 CONTROL, COORDINATION & COMMUNICATION	
CONTROL & COORDINATION STRUCTURE REFERENCE Structural Chart	Plant Management Supervision / Contractor Work
COORDINATION &	NA

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

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, 4 Mar 2013

71°F
60°F

Sky Conditions: Partly Cloudy
Sunrise: 6:26 AM **Sunset:** 6:05 PM
Wind: S (182°) @ 18Mph
Precipitation Probability: 30%



[View your complete Local Weather »](#)

Extended Forecast [Full 10-Day Forecast »](#)

Tuesday 5 Mar 2013	Wednesday 6 Mar 2013	Thursday 7 Mar 2013	Friday 8 Mar 2013
Isolated Thunderstorms 70°F 42°F	Sunny 58°F 40°F	Mostly Sunny 64°F 45°F	Partly Cloudy 70°F 54°F

Detailed Forecast

Today:
Partly cloudy skies. High 71F. Winds S at 15 to 25 mph.
Tonight:
Partly to mostly cloudy with a slight chance of showers and thunderstorms late at night. Low near 60F. Winds S at 10 to 20 mph. Chance of rain 30%.
Tomorrow:
Partly cloudy, chance of a thunderstorm. Highs in the low 70s and lows in the low 40s.

March 4, 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: February 23, 2013 Through March 1, 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.

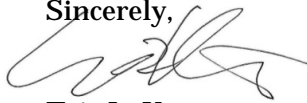
Monitoring locations are illustrated in Figure 1. Graphs illustrating the tilt data, as recorded by each instrument, are provided in Figures 2 through 4. The IPI data for the X-directions and Y-directions are plotted separately in Figures 2 and 3, respectively. The tiltmeter data for both the X- and 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 1/100 of a degree. Alarm levels are set at ± 1.0 degree for IPI-1, IPI-2, IPI-3, and IPI-5 and at 0.5 ± 1.5 degree for IPI-4. Tiltmeter alarms are set at ± 0.5 degree. All IPIs and tiltmeters appear to be stable.

The Pad 3 water-level transducer was relocated on February 20. The map in Figure 1 has been updated to show the new location of the transducer. Visual field inspections indicate an obvious subsidence boundary on the western side of Pad 3. The transducer was previously located within the region where subsidence was visually evident; however, it was moved to the new location because of concerns of losing it in a sloughing event. It is now located outside of the region where subsidence is visually evident (the central and eastern portions of Pad 3), approximately 10 feet south of the middle of the southern edge of Pad 3. Figure 1 also shows the location of the Rig Access Road transducer, which is about 25 feet east of the edge of the newly-constructed berm on Rig Access Road at drilling pad ORW-8 (B-15).

Figure 5 shows water levels recorded at Rig Access Road and IPI-2. Figure 6 shows water levels recorded at Rig Access Road and Pad-3 (Rig Access Road water level is shown in both figures for comparison to the other sites). Figure 7 shows water levels with respect to zero

datum. While IPI-2 and Pad 3 water levels maintain the same change throughout, the water level at Rig Access Road appears to change by 0.04 foot to 0.05 foot through the week with respect to the other sites and is probably caused by differential subsidence at the Rig Access Road transducer. Although the data from Pad 3 and IPI-2 indicate that there is no relative differential subsidence at these locations, it is possible that they are subsiding at the same rate and, thus, water levels would not show any differential subsidence. Figure 8 illustrates these changes by comparing the difference in water levels at IPI-2 and Pad 3, and the differences at IPI-2 and Rig Access Road. The subsidence rate at Rig Access Road appears to be roughly linear over time. Note that the transducer mounting post at Rig 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.

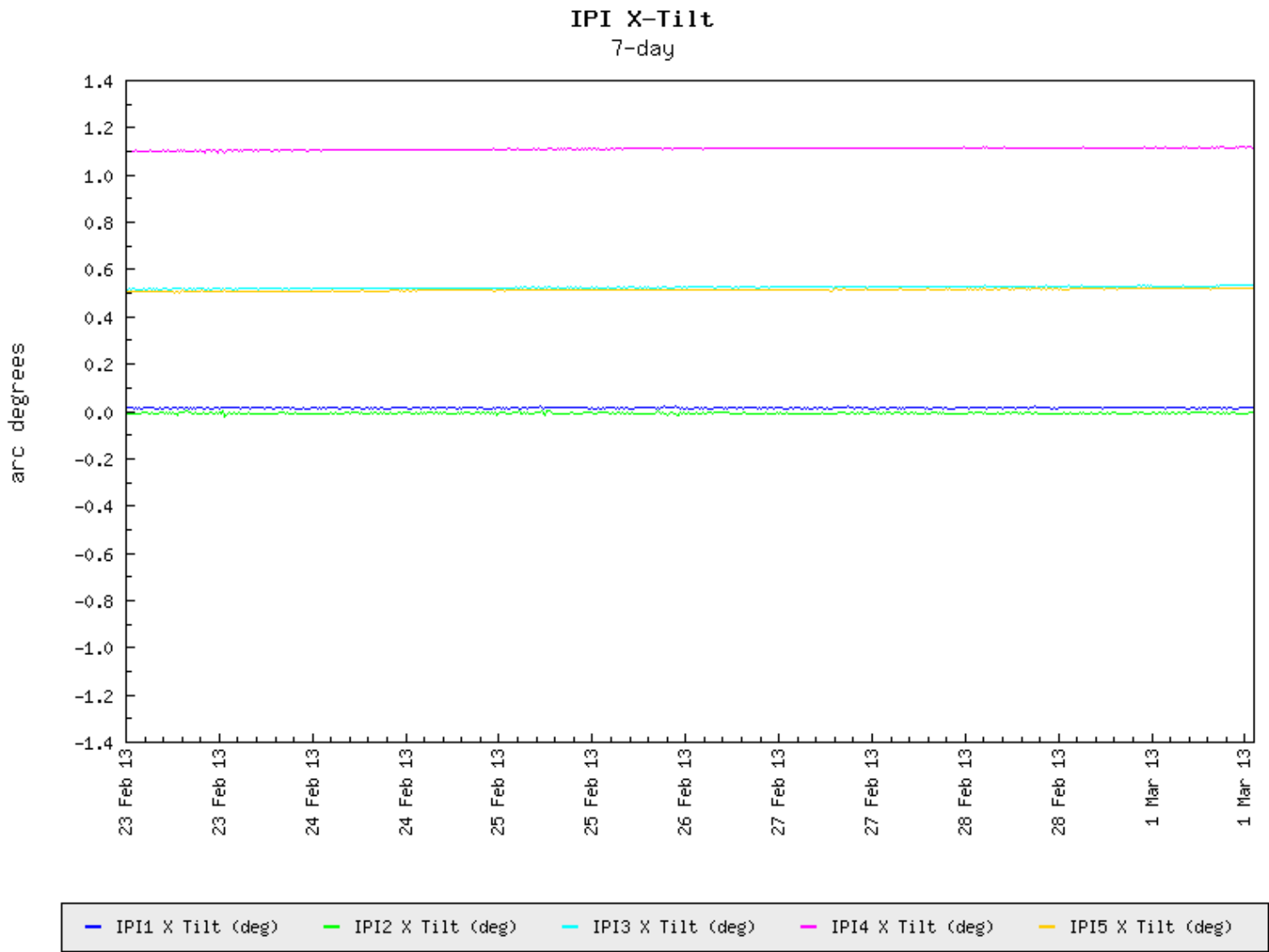


Figure 2. Inclinometer X-Direction Temporal Trends.

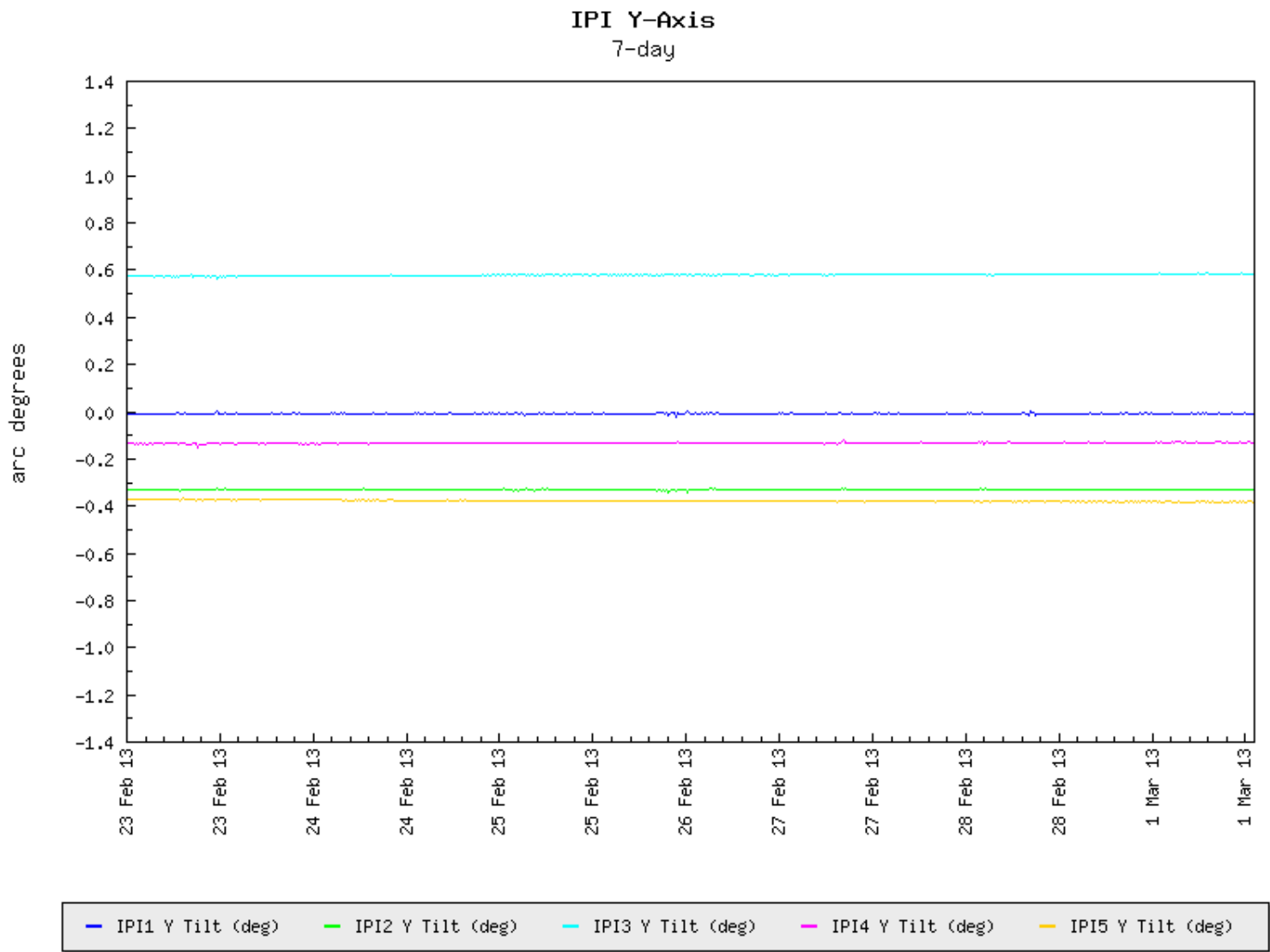


Figure 3. Inclinator Y-Direction Temporal Trends.

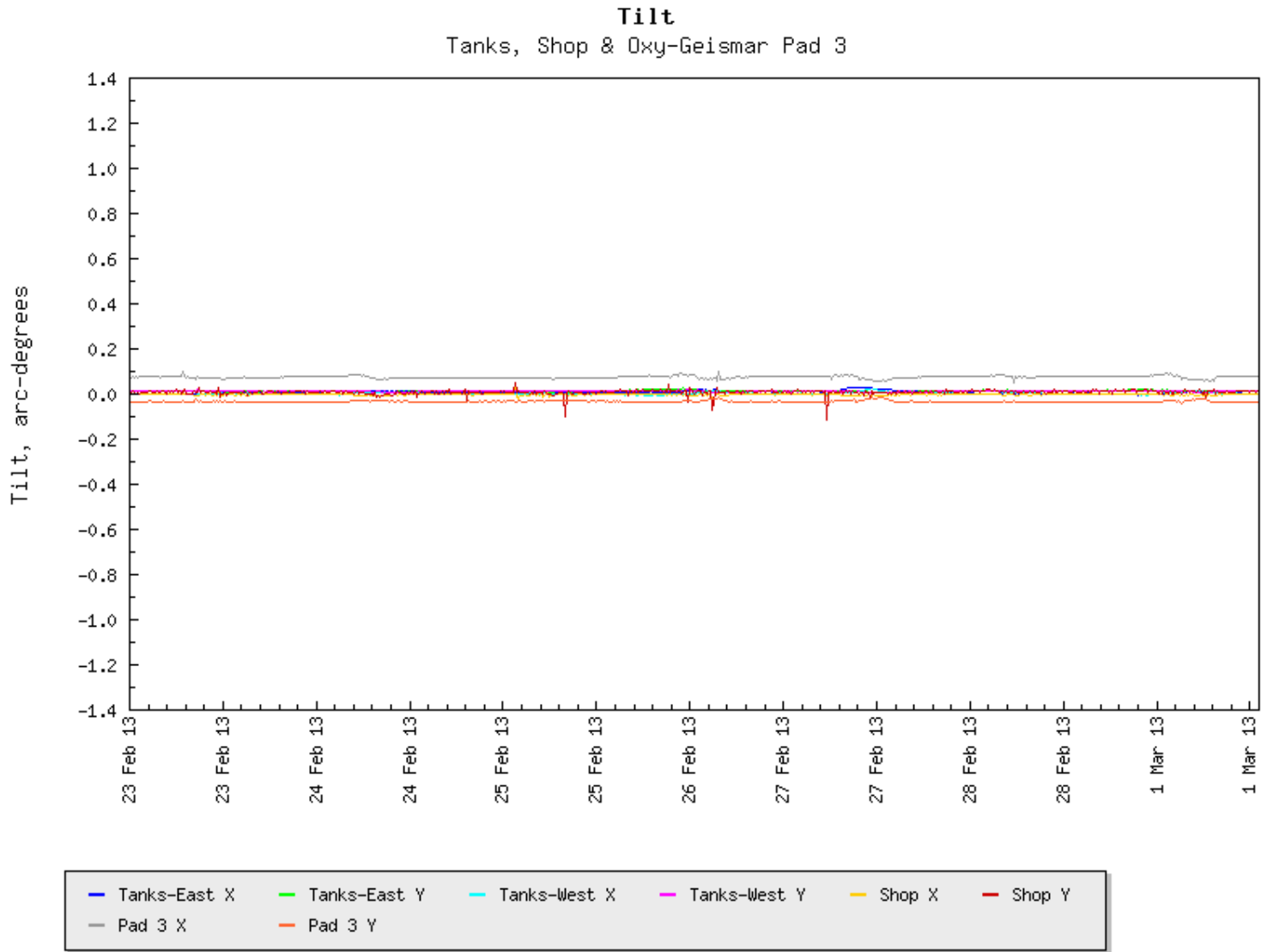


Figure 4. Tiltmeter Temporal Trends.

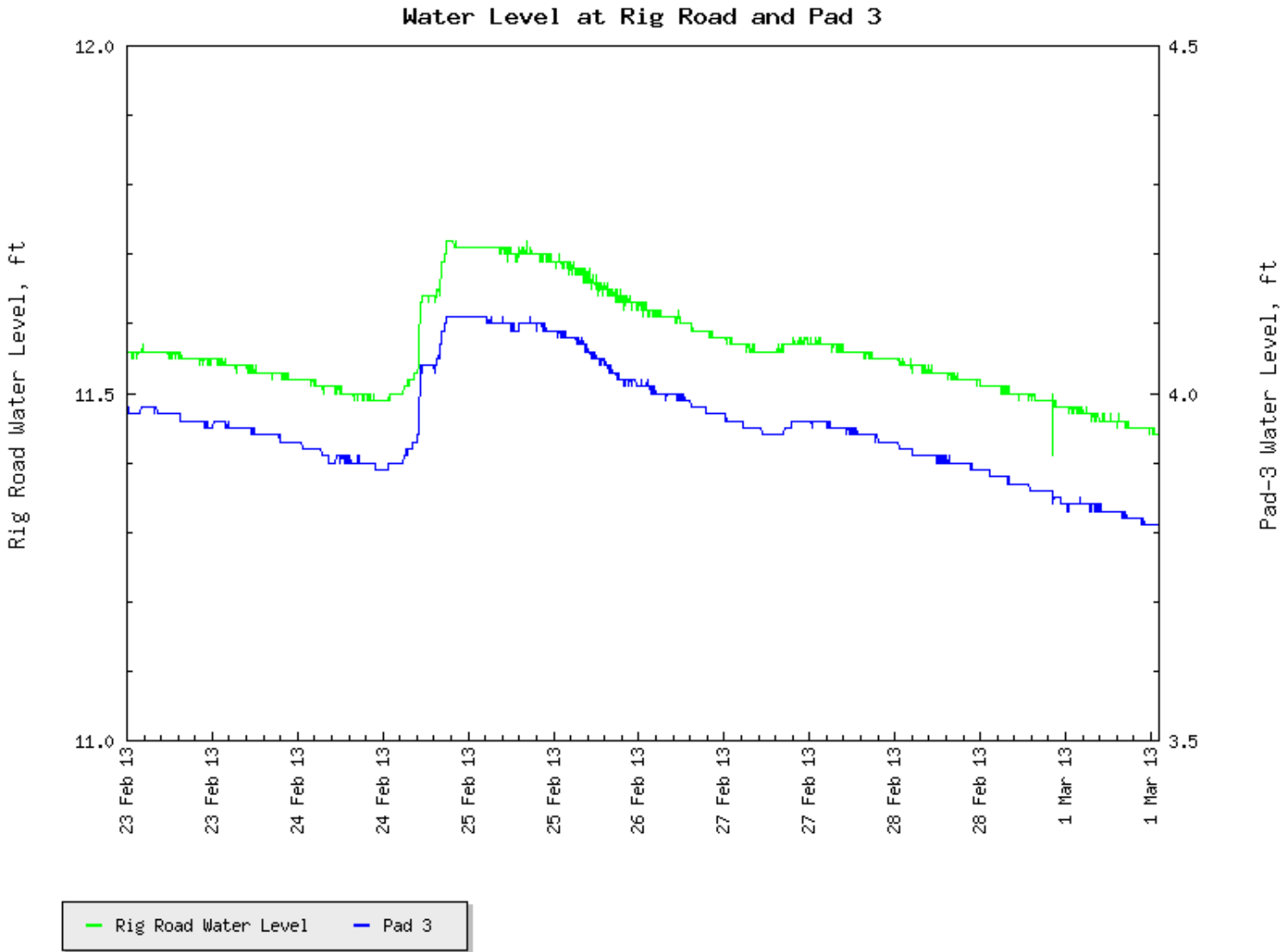


Figure 5. Water-Level Temporal Trends Comparing Rig Access Road Data to Pad 3 Data.

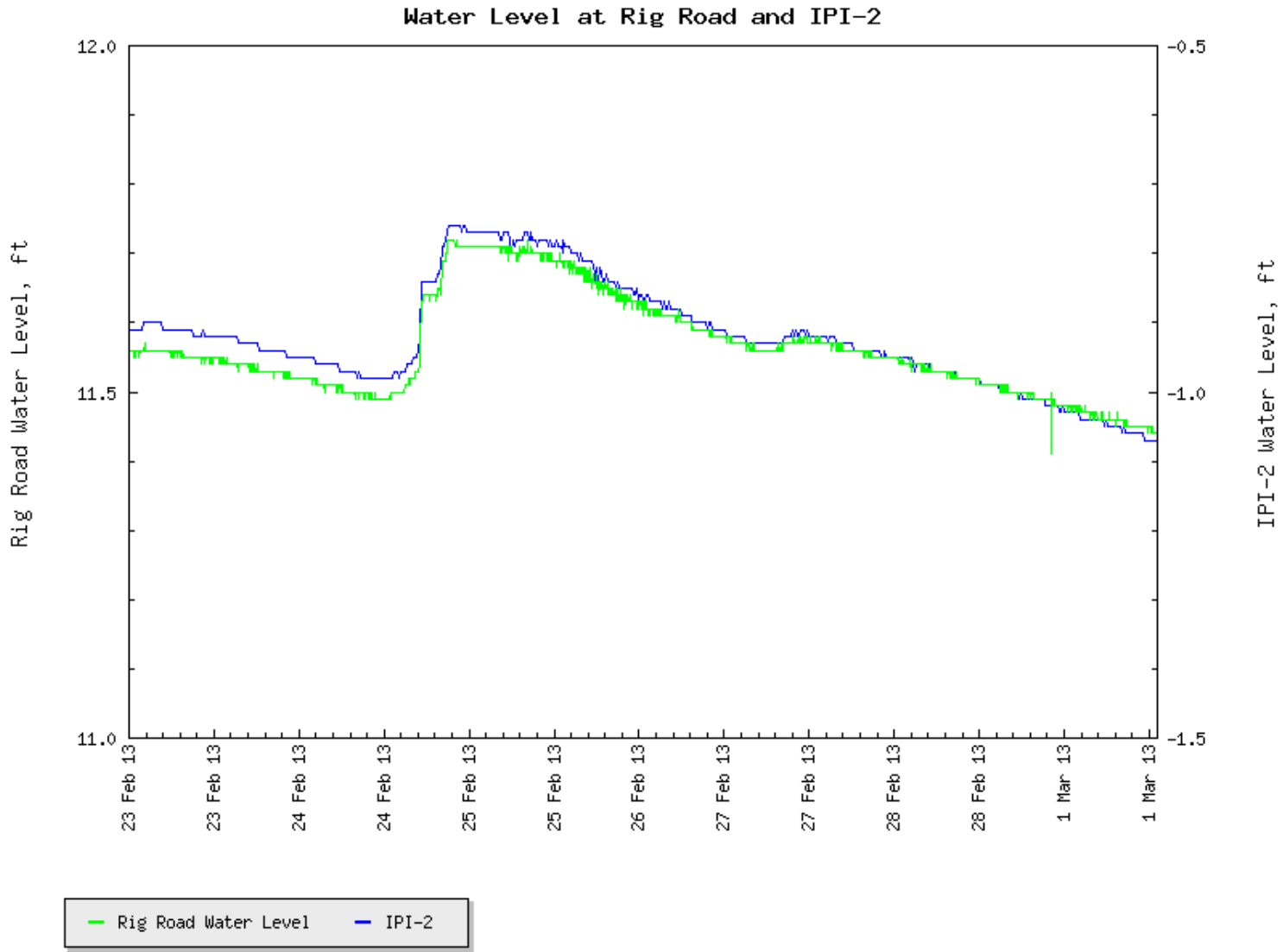


Figure 6. Water-Level Temporal Trends Comparing Rig Access Road Data to IPI-2 Data.

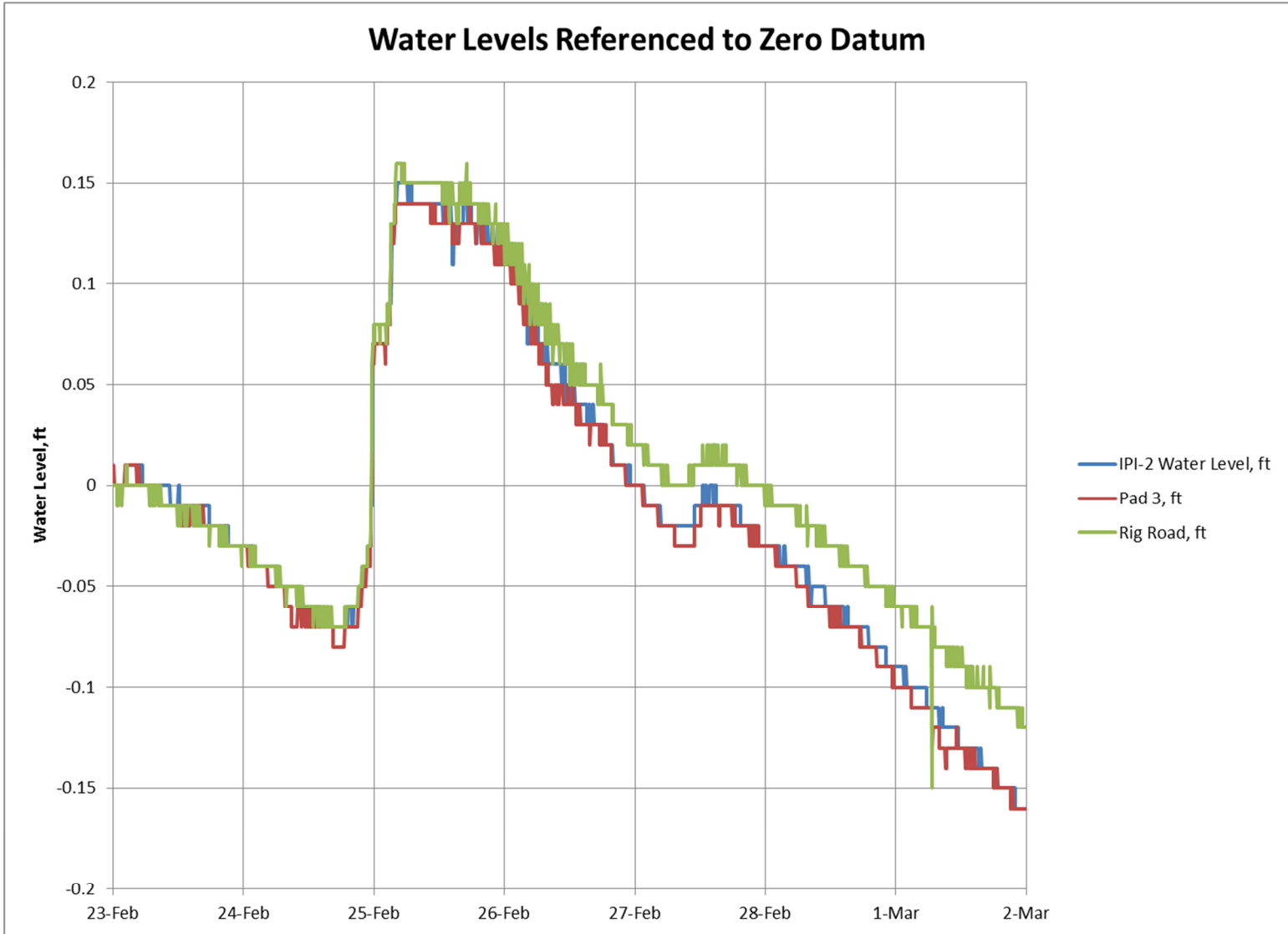


Figure 7. Water-Level References to Zero Datum.

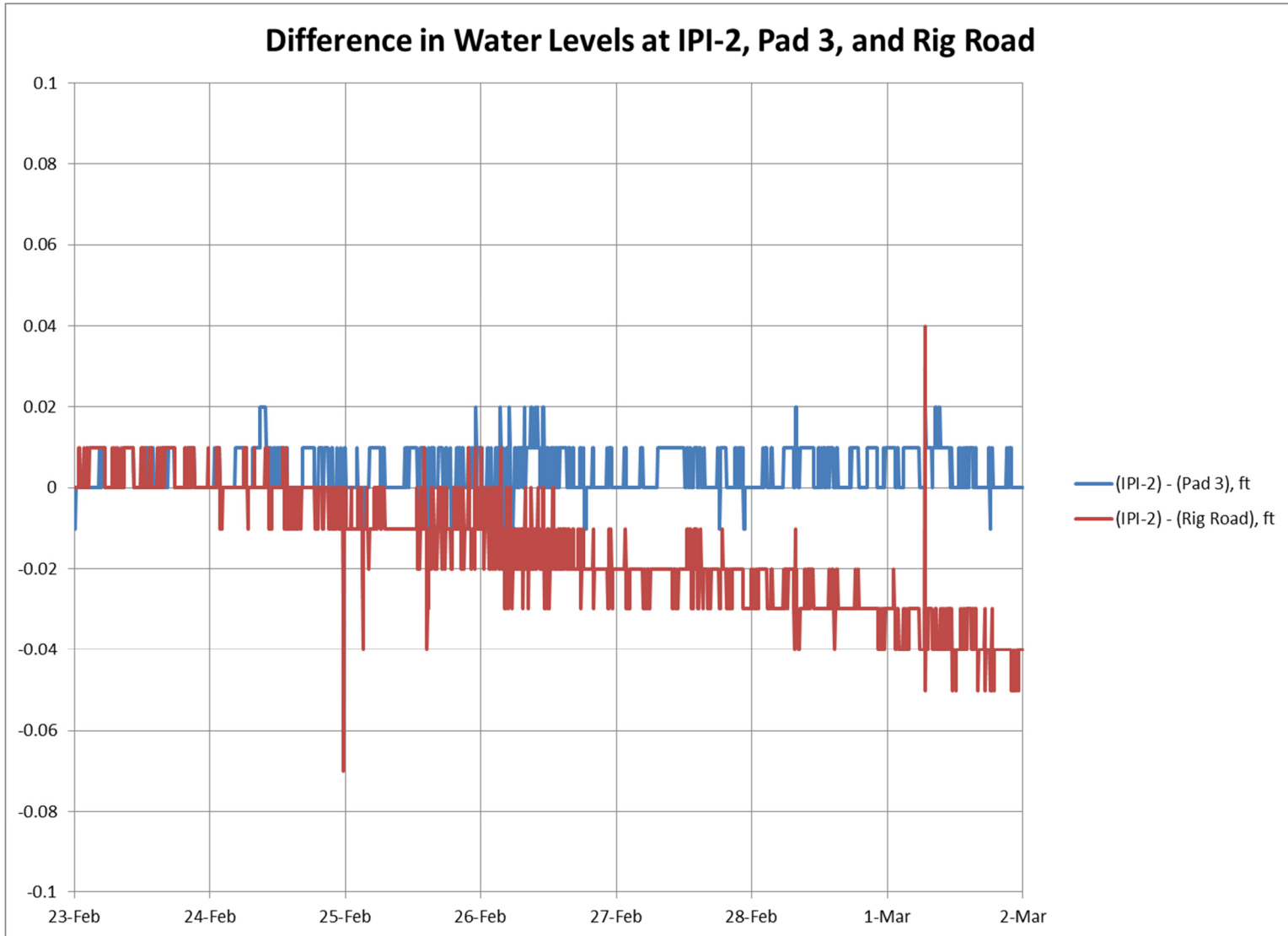


Figure 8. Difference in Water Levels Showing Subsidence at the Rig Access Road Transducer.