

PIONEER
NATURAL RESOURCES

Oil and Gas Investor Excellence Award

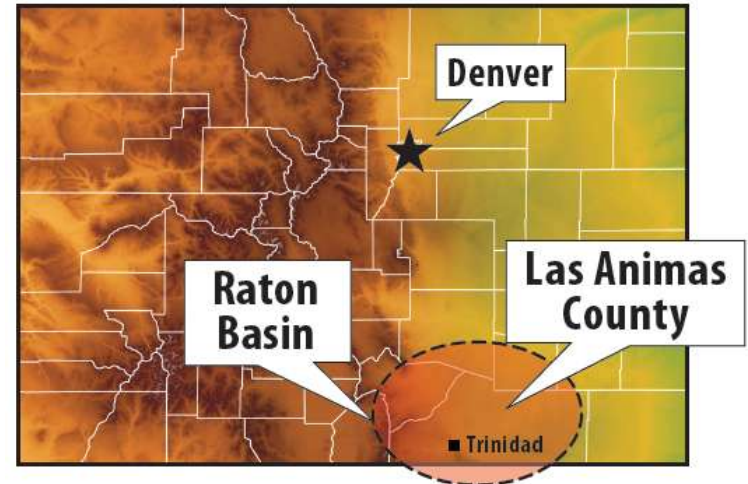
Real-time Water Quality Monitoring
In A Natural Gas Operation

NYSE: PXD
www.pxd.com



Watershed monitoring - background

- Community concerns expressed about potential surface discharge impacts
- Wanted to ensure environment and water quality being protected
- Hired third party experts to manage and implement
- Monitoring provides real-time data
- Mirrored a smaller pilot on Apishapa
- Continued surface discharge that protects uses is enhancing return on investment



Satellite-linked, continuous monitoring



Data transmitted via satellite link to third-party, data processor

Data Collected:

- Flow
- pH
- EC
- Chloride
- Temperature



Transparency - public confidence

Data collected from all operators - processed and handled by outside party

The screenshot shows a Windows Internet Explorer browser window displaying the Purgatoire Watershed website. The address bar shows the URL <http://www.purgatoirewatershed.org/Dev/>. The website header features the logo "Purgatoire Watershed" with the tagline "Connecting People. Protecting Water Quality." Below the logo is a large landscape photograph of a valley with snow-capped mountains in the background. A quote by Leonardo da Vinci, "Water is the driving force of all nature." is overlaid on the bottom of the image. To the right of the main content is a vertical navigation menu with links: Home, About Us, Water Monitoring, News, FAQ, Links, and Contact Us. Below the navigation menu is a "Did You Know?" section with the heading "Everyone lives in a watershed!" and a paragraph explaining that a watershed is a drainage basin that collects precipitation which eventually drains to a common water body (e.g., stream, lake, wetland). It notes that precipitation may also sink into the earth to become groundwater and that most of the water you drink comes from watersheds. Below the "Did You Know?" section is a "Using this Site" section. The main content area is divided into three sections: "News and Information" with the text "Being good stewards of our water is for everyone's benefit." and a "More..." link; "Community Data & Information" with a photograph of two cows drinking from a stream; and "Actual Water Monitoring Data" with a map of the Purgatoire River watershed showing monitoring stations marked with red dots and labeled with station numbers (e.g., 1024.5, 1024.4, 1024.3, 1024.2, 1024.1, 1024.0, 1023.9, 1023.8, 1023.7, 1023.6, 1023.5, 1023.4, 1023.3, 1023.2, 1023.1, 1023.0, 1022.9, 1022.8, 1022.7, 1022.6, 1022.5, 1022.4, 1022.3, 1022.2, 1022.1, 1022.0, 1021.9, 1021.8, 1021.7, 1021.6, 1021.5, 1021.4, 1021.3, 1021.2, 1021.1, 1021.0, 1020.9, 1020.8, 1020.7, 1020.6, 1020.5, 1020.4, 1020.3, 1020.2, 1020.1, 1020.0, 1019.9, 1019.8, 1019.7, 1019.6, 1019.5, 1019.4, 1019.3, 1019.2, 1019.1, 1019.0, 1018.9, 1018.8, 1018.7, 1018.6, 1018.5, 1018.4, 1018.3, 1018.2, 1018.1, 1018.0, 1017.9, 1017.8, 1017.7, 1017.6, 1017.5, 1017.4, 1017.3, 1017.2, 1017.1, 1017.0, 1016.9, 1016.8, 1016.7, 1016.6, 1016.5, 1016.4, 1016.3, 1016.2, 1016.1, 1016.0, 1015.9, 1015.8, 1015.7, 1015.6, 1015.5, 1015.4, 1015.3, 1015.2, 1015.1, 1015.0, 1014.9, 1014.8, 1014.7, 1014.6, 1014.5, 1014.4, 1014.3, 1014.2, 1014.1, 1014.0, 1013.9, 1013.8, 1013.7, 1013.6, 1013.5, 1013.4, 1013.3, 1013.2, 1013.1, 1013.0, 1012.9, 1012.8, 1012.7, 1012.6, 1012.5, 1012.4, 1012.3, 1012.2, 1012.1, 1012.0, 1011.9, 1011.8, 1011.7, 1011.6, 1011.5, 1011.4, 1011.3, 1011.2, 1011.1, 1011.0, 1010.9, 1010.8, 1010.7, 1010.6, 1010.5, 1010.4, 1010.3, 1010.2, 1010.1, 1010.0, 1009.9, 1009.8, 1009.7, 1009.6, 1009.5, 1009.4, 1009.3, 1009.2, 1009.1, 1009.0, 1008.9, 1008.8, 1008.7, 1008.6, 1008.5, 1008.4, 1008.3, 1008.2, 1008.1, 1008.0, 1007.9, 1007.8, 1007.7, 1007.6, 1007.5, 1007.4, 1007.3, 1007.2, 1007.1, 1007.0, 1006.9, 1006.8, 1006.7, 1006.6, 1006.5, 1006.4, 1006.3, 1006.2, 1006.1, 1006.0, 1005.9, 1005.8, 1005.7, 1005.6, 1005.5, 1005.4, 1005.3, 1005.2, 1005.1, 1005.0, 1004.9, 1004.8, 1004.7, 1004.6, 1004.5, 1004.4, 1004.3, 1004.2, 1004.1, 1004.0, 1003.9, 1003.8, 1003.7, 1003.6, 1003.5, 1003.4, 1003.3, 1003.2, 1003.1, 1003.0, 1002.9, 1002.8, 1002.7, 1002.6, 1002.5, 1002.4, 1002.3, 1002.2, 1002.1, 1002.0, 1001.9, 1001.8, 1001.7, 1001.6, 1001.5, 1001.4, 1001.3, 1001.2, 1001.1, 1001.0, 1000.9, 1000.8, 1000.7, 1000.6, 1000.5, 1000.4, 1000.3, 1000.2, 1000.1, 1000.0). The browser window also shows the Windows taskbar at the bottom with several open applications: Microsoft Office, Microsoft Excel, Home - Colorado Wat..., Purgatoire Watershed, and Microsoft PowerPoint. The system tray shows the time as 4:10 PM and the battery level at 98%.

Simple to use...

Point and click to monitoring station of interest

Purgatoire - Windows Internet Explorer

http://www.sutronwin.com/Purgatoire/tw/

File Edit View Favorites Tools Help

Purgatoire

Done, but with errors on page.

start

Inbox - Microsoft ...

Purgatoire River S...

RE: Names / Emails...

Watershed_Monito...

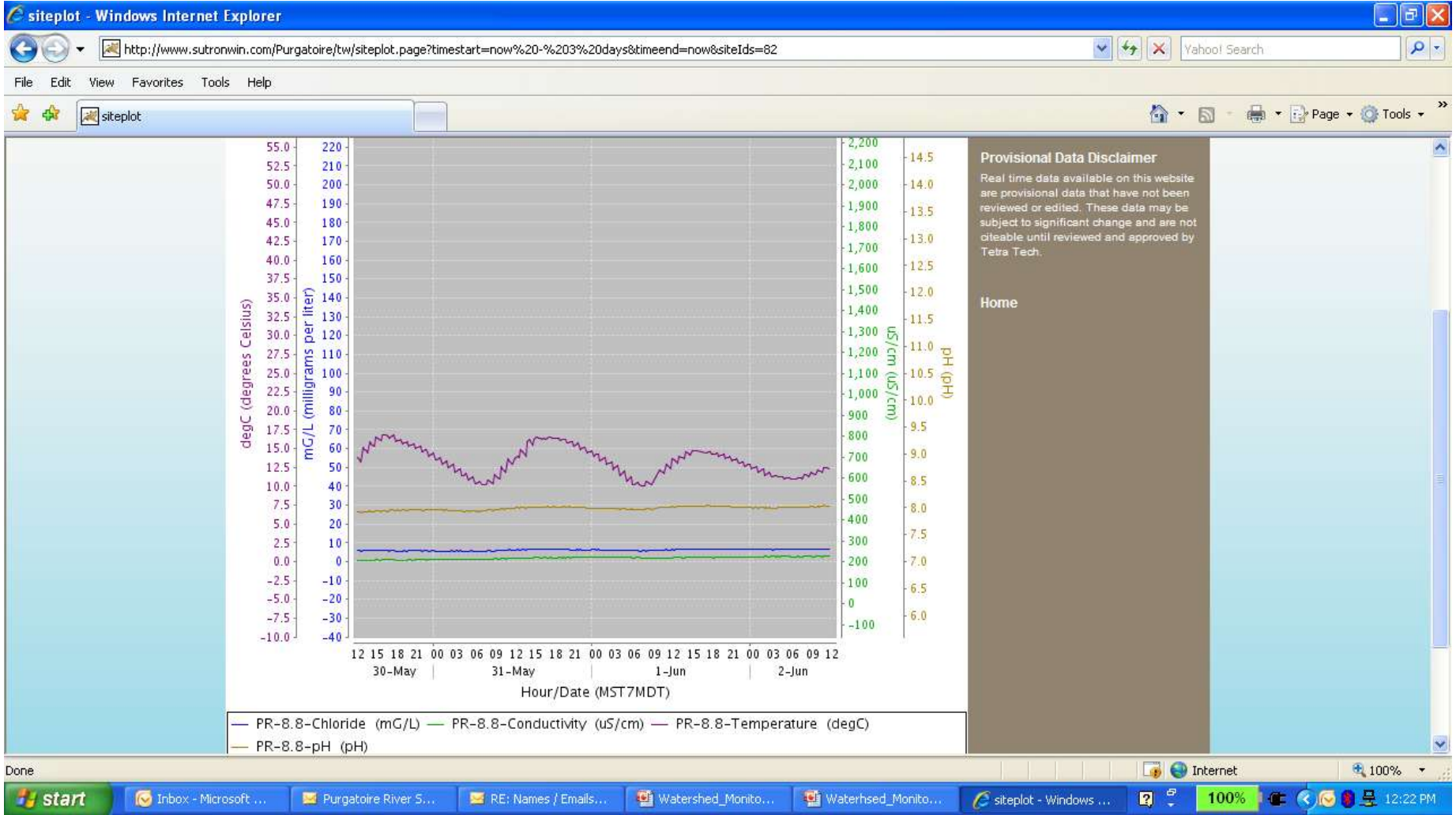
Waterhsed_Monito...

Purgatoire - Windo...

100%

12:20 PM

Charts or raw data available



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