



Orphan Well Scout: Quick Start Guide

Summary

The Orphan Well Scout is a map-based web application available on the Marcellus Matters website (http://www.marcellusmatters.psu.edu) designed to document the discovery of orphan and abandoned oil and gas wells. This particular application enables Community Science Volunteers to record the location of a suspected orphan well on a map and to specify descriptive information about the field site. The simple design of the application is intended to accommodate a variety of users.

Basic Use

1. The Orphan Well Scout appears as a topographic map of Pennsylvania, with options to view layers of the county boundaries and the active, inactive, and abandoned oil and gas wells designated by the Pennsylvania Department of Environmental Protection.



2. The locations of historic oil and gas development contributed by users are shown as points of varying colors. Borehole locations are designated as red points, pad clearing locations are designated as green points, production and distribution equipment locations are designated as purple points, casing locations are designated as blue points, and multiple types locations are designated as orange points.







3. To change the resolution of the map uese the zoom in and zoom out buttons in the upper left corner of the screen.







4. To contribute the location of an orphan or abandoned oil and gas well, select the Oil Derrick button at the top of the screen. An Oil Derrick icon will then appear at the center of the screen, which can be dragged to the site location. The application is designed to allow users to designate the site location by either placing the point at an approximate location using the map or by specifying the specific geographic coordinates of the point. Once the icon is positioned in the correct location, click either the save button to record the site or the cancel button to remove the icon.



5. If you select the save button, a box will appear which allows descriptive information about the site to be specified. This data includes the type of site (borehole, casing, pad clearing, production and distribution equipment), the casing status (none, steel, wood, not visible, other), the approximate pipe diameter, the plugging status of the site, the condition of the site (pipe or equipment damaged, outgassing or bubbling, pipe or equipment corroded, outgassing sulfur or other odor), the site vegetation (bare ground, grasses, shrubs, young forest, mature forest), and the distance of the well to water (less than 1 meter, 1 to 10 meters, 11 to 100 meters, greater than 100 meters).

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MarcellusMott	Add Well Location Longitude *W -77.685375 Lotation Borehole Casing Production/Distribution equipment Casing None Approximate pipe diameter (in) Capped/plugged Yes Yes Condition (select zero or more) Pipe/equipment damaged Outgassing, sulfur or other odor Site Vegetation Distance to water (m) Bare ground Notes	Borehole Pad Clearing Multiple types Production/Distribution equipment Casing Using Usi
Graham Antes Philipsburg Osceola Milis Houtzdale Ramey Port Matida	Photo (not available, comming soon)	Mifflinburg Hartleton Sun Selinsprove

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In the interest of data quality, the Orphan Well Scout has been designated as private. In the interest of data quality, the orphan well scout has been designated as private. Data can only be contributed by participants who have attended either the Community Science Volunteer educational workshops or the Marcellus Citizen Science Network informational sessions and field trips.





Create your Marcellus Matters Web Account

- 1. Go to http://www.marcellusmatters.psu.edu/mm_memberships/register
- 2. Enter registration code: shale2015-A

Member Registration			
Marcellus Matters > Hember Registration			
Member Registration			
Username Usernames must be at least 4 characters long			
Password Passwords must be at least 5 characters long			
Confirm Password			
* Screen Name If you leave this field blank, your screen name will be the same as your username		Matters	
* Email Address			
* Confirm Email Address	Home		
URL	"Marcellus Matters" is a multidisciplinary initiative to provide adults in rural Pennsylvania with opportunities to increase their knowledge of science, technology, engineering and multi_CFEIU and ensemi in scientific prairie and investigation through the large of		
Terms of Service All messages posted with site express the views of the author, and do not necessarily by registering at his site you agree not to post any messages that are obscene, vulgar, all users who do so. We reserve the right to remove, edit, or move any messages for any reason. Invitation code: Implementation of service Submit I indicates required fields	energy resources. Supported by the National Science Foundation, the project has four comp actutes: Marcelus Community Science Volunteer Program, Marcellus CM Network, Marcelus Community Based Performance, and Marcellus CM Planning Workshops. Each is designed to emphasize different interests an styles. At are designed to increase participant's knowledge of science and e constructive dialogue about complex and difficult issues. Access to confert on this site is retricted to participant's in the Marcellus Community Science Research Study. 1494 1494 1494 181 191 191 191 191 191 191 191	e volunteer * Vol	