

State of Colorado Oil and Gas Conservation Commission

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Table with 4 columns: DE, ET, OE, ES

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SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.)

Form with 11 numbered fields for operator, contact, API number, well name, location, etc.

General Notice

Large form section with checkboxes for location changes, spacing units, operator changes, abandoned locations, etc.

Technical Engineering/Environmental Notice

Form section for technical notices, including checkboxes for intent to recomplete, change drilling plans, etc.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Brandon Brunns Date: 10/31/2013 Email: brandon.brunns@pdce.com

COGCC Approved: Title Date

CONDITIONS OF APPROVAL, IF ANY:



TECHNICAL INFORMATION PAGE



FOR OGCC USE ON

1.	OGCC Operator Number: <u>69175</u>	API Number: <u>05-123-11996</u>
2.	Name of Operator: <u>PDC Energy, Inc.</u>	OGCC Facility ID # _____
3.	Well/Facility Name: <u>Wells Trust 13, 14, 24-21</u>	Well/Facility Number: <u>05-123-14501</u>
4.	Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWSW S21 T6N R64W 6th PM</u>	

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

A condensate release was discovered on March 30, 2010 at the Wells Trust 13, 14, 24-21 (API # 05-123-14501, Spill Tracking # 2213394, Remediation # 6119) tank battery. The facility is located in the NWSW Quarter of Section 21, Township 6 North, and Range 64 West, as illustrated on Figure 1. Between March 31, 2010 and April 1, 2010, PDC contracted LT Environmental (LTE) to conduct excavation activities in the release area. Approximately 235 cubic yards of impacted soil were removed and transported to the Waste Management Facility in Ault, Colorado under PDC waste manifests. Petroleum hydrocarbon impacts in soil were successfully mitigated within the excavation area. However, analytical results indicated that the groundwater sample (GW01) collected from the excavation area exhibited benzene concentrations in exceedance of COGCC Table 910-1 groundwater standards. Soil and groundwater sample locations within the excavation area are illustrated on Figure 2. Soil analytical data is summarized in Table 1. Between December 30, 2010 and March 28, 2011, five temporary monitoring wells were installed for monitoring and remediation purposes, as illustrated on Figure 3. Quarterly groundwater monitoring commenced during the first quarter 2011 and samples were submitted for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX). Groundwater analytical results are summarized in Table 2. Monitored natural attenuation was selected as the remedial strategy to address residual dissolved phase hydrocarbon concentrations. In January 2013, Tasman Geosciences (Tasman) inherited site-wide quarterly groundwater monitoring and remediation activities from LTE. During the fourth quarter 2013, four consecutive quarters of constituent concentrations in compliance COGCC regulatory standards were achieved. Monitoring well MW02 was damaged and could not be sampled during the third and fourth quarters 2013. However, BTEX concentrations were below laboratory detection limits for ten consecutive quarters between first quarter 2011 and second quarter 2013. Groundwater analytical results from the third and fourth quarters 2013 are illustrated on Figure 3. Based on the groundwater analytical results described herein, residual petroleum hydrocarbon concentrations in groundwater were successfully mitigated. Consequently, PDC is requesting a No Further Action determination for this site.