

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



DOCUMENT #2223155

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.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED 3/7/2012

1. OGCC Operator Number: 69175 4. Contact Name Ed Winters
2. Name of Operator: PDC Energy
3. Address: 120 Railroad Ave. STE D Phone: 970-285-9606
City: Parachute State: CO Zip: 81635 Fax: 970-285-9619

Complete the Attachment Checklist

OP OGCC

5. API Number 05-045-11735 OGCC Facility ID Number 335578
6. Well/Facility Name: Chevron 7. Well/Facility Number 8D-5D
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SWNW, Sec 4, T6S, R96W, 6th PM
9. County: Garfield 10. Field Name: Grand Valley
11. Federal, Indian or State Lease Number:

Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page	x	
Other		

General Notice

CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines: FNU/FSL FEL/FWL
Change of Surface Footage to Exterior Section Lines:
Change of Bottomhole Footage from Exterior Section Lines:
Change of Bottomhole Footage to Exterior Section Lines: attach directional survey
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer
Latitude Distance to nearest property line Distance to nearest bldg, public rd, utility or RR
Longitude Distance to nearest lease line Is location in a High Density Area (rule 603b)? Yes/No
Ground Elevation Distance to nearest well same formation Surface owner consultation date:

GPS DATA:

Date of Measurement PDOP Reading Instrument Operator's Name

CHANGE SPACING UNIT

Formation Formation Code Spacing order number Unit Acreage Unit configuration

Remove from surface bond

Signed surface use agreement attached

CHANGE OF OPERATOR (prior to drilling):

Effective Date:
Plugging Bond: Blanket Individual

CHANGE WELL NAME

NUMBER

From:
To:
Effective Date:

ABANDONED LOCATION:

Was location ever built? Yes No
Is site ready for inspection? Yes No
Date Ready for Inspection:

NOTICE OF CONTINUED SHUT IN STATUS

Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? Yes No
MIT required if shut in longer than two years. Date of last MIT

SPUD DATE:

REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK

*submit cbl and cement job summaries

Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date

RECLAMATION:

Attach technical page describing final reclamation procedures per Rule 1004.

Final reclamation will commence on approximately Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

Notice of Intent

Approximate Start Date:

Report of Work Done

Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

Intent to Recomplete (submit form 2) Request to Vent or Flare E&P Waste Disposal
Change Drilling Plans Repair Well Beneficial Reuse of E&P Waste
Gross Interval Changed? Rule 502 variance requested x Status Update/Change of Remediation Plans
Casing/Cementing Program Change Other: for Spills and Releases

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

Signed: Date: Email: ewinters@petd.com
Print Name: Ed Winters Title Environmental Field Coordinator

COGCC Approved: Title Date:

CONDITIONS OF APPROVAL, IF ANY:



FOR OGCC USE ONLY

1. OGCC Operator Number:	69175	API Number:	05-045-11735
2. Name of Operator:	PDC Energy	OGCC Facility ID #	335578
3. Well/Facility Name:	Chevron	Well/Facility Number:	8D-5D
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	SWNW, Sec 4, T6S, R96W, 6th PM		

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**

Initial Response Actions:

PDC Energy (PDC) was notified of a produced water release on May 25, 2011. A rock fall to the west of the well pad was the cause of the release. A boulder broke through the west side of the containment, glanced off the condensate tank, and struck the partially buried produced water tank breaking the dumplines entering the tank. The broken dump line was the source of the release. HRL Compliance Solutions Inc. (HCSI) was contacted and a site investigation was initiated on May 25, 2011. Approximately 762 cubic yards of soil was impacted by the release.

Remediation Activities:

In-situ bioremediation was utilized to remediate the impacted soil to a depth of 30 feet below the ground surface. Refer to submitted Form 27 for remediation activities (remediation #6019).

Proposed Activities:

Approximately 610 cubic yards of the hydrocarbon impacted soil has been remediated by use of in-situ bioremediation technology. The remaining 154 cubic yards of impacted soil is located from the ground surface to a depth of approximately ten (10) feet.

The partially buried produced water tank will be removed and the remaining impacted soil will be excavated and placed in a lined treatment cell. Approximately 154 cubic yards of soil will be excavated and treated via bioremediation.

Treatment Cell Construction:

PDC is proposing to construct a 50' x 50' treatment cell on the Chevron 8D-5D well pad for the remediation of hydrocarbon impacted soils. However, construction of two containment cells may be necessary if there is not appropriate room for the one containment cell. The second cell, if needed, will also be located on the Chevron 8D-5D well pad.

Prior to construction of the treatment cell, a composite sample of the underlying soil from the location of the treatment cell will be collected to establish the background soil composition. The sample will be analyzed for COGCC Table 910-1 parameters by an accredited analytical laboratory.

The treatment cell will be constructed on level substrates, lined, and bermed.

Produced Water Impacted Soil Treatment (COGCC Series Rule 907.e.(2)):

The impacted soil will be spread evenly within the treatment cell to prevent pooling, ponding, or runoff.

Contamination of storm water runoff, ground water, or surface water will be prevented by lining and berming the treatment cell containing the impacted soil.

Biodegradation shall be enhanced by disking, tilling, aerating, or addition of nutrients, microbes, water or other amendments, as appropriate.

The land treated soil shall be beneficially reused or incorporated in place and shall not exceed standards defined in COGCC Table 910-1. A subsequent Form 4 will be submitted, with analytical, with approval and notification to the COGCC.

The land owners will be notified prior to treatment cell construction.

Remediation:

Soil water content will be measured to establish moisture content prior to microbial application.

Apply bioremediation product to impacted soil. The bioremediation product will be applied at a rate based off analysis and calculations specific for the contaminants. Perform maintenance as necessary to the treated soil.

Periodic turning, watering may be utilized on the impacted soil. Field screening of the treatment cell will be performed through the use of a PID and PetroFlag unit to monitor the progress of the treatment. Field screen results will be collected and recorded.

Once the PID and PetroFlag indicate that the soil has been remediated, a confirmation sample will be collected and submitted to an accredited analytical laboratory for analysis for COGCC Table 910-1 parameters.