

State of Colorado
Oil and Gas Conservation Commission

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



RECEIVED
2/23/2012

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.)

1. OGCC Operator Number: 69175	4. Contact Name Ed Winters	Complete the Attachment Checklist OP OGCC
2. Name of Operator: PDC Energy	Phone: 970-285-9606	
3. Address: 120 Railroad Ave. STE D City: Parachute State: CO Zip: 81635	Fax: 970-285-9619	
5. API Number 05-045-07638	OGCC Facility ID Number 335809	Survey Plat
6. Well/Facility Name: Unocal	7. Well/Facility Number 23-9D	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): SWNW, Sec 9, T6S, R96W, 6th PM		Surface Eqpm Diagram
9. County: Garfield	10. Field Name: Grand Valley	Technical Info Page
11. Federal, Indian or State Lease Number:		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:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Bottomhole location Qtr/Sec, Twp, Rng, Mer _____ attach directional survey

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.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input checked="" type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> 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.

Digitally signed by Adell K. Heneghan
 DN: cn=Adell K. Heneghan, o=PDC Energy, ou, email=a.heneghan@pdcenergy.com
 Signed: Adell K. Heneghan Email: aheneghan@pdc.com

Print Name: Adell K. Heneghan Title: Environmental Health and Safety Director

COGCC Approved: *Chris Campfield* Title: FOR Date: 03/08/2012

CONDITIONS OF APPROVAL IF ANY:
Chris Campfield
 EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	69175	API Number:	05-045-07638
2. Name of Operator:	PDC Energy	OGCC Facility ID #	335809
3. Well/Facility Name:	Unocal	Well/Facility Number:	23-9D
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	SWNW, Sec 9, T6S, R96W, 6 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**

Status Update

PDC Energy (PDC) contacted HRL Compliance Solutions, Inc. (HCSI) on December 28, 2010 in regards to a release from a condensate tank at the PDC Unocal 3 well pad (spill #2523636).

Approximately one hundred and ten (110) bbls of oil and ten (10) bbls of water were released within the secondary steel lined containment. Because the liner was not properly sealed, the fluids migrated into the underlying soils beneath the containment. None of the fluids were contained or recovered. No surface waer features, surface water, or groundwater was impacted as a result of this release.

Site characterization was conducted by HCSI personnel on January 4, 2011. A series of boreholes were drilled to determine the extent of impacts to the underlying soil. It was determined that approximately 4,450 cubic yards of soil had been impacted by the release. The depth of the impact was from the ground surface to approximately fifty (50) feet below ground surface (bgs). It was determined that *in-situ* chemical oxidation would be utilized to remediate the impacted soil. Refer to submitted Form 27 (remediation #5643) .

Deep Earth Technologies, Inc. (DTI) was contracted by PDC to conduct the *in-situ* treatment of the site utilizing their Cool-Ox™ technology. The initial Cool-Ox™ treatment was conducted from April 4, 2011 through April 21, 2011. A total of sixty one (61) injection points were advanced within the impacted area to a depth of approximately forty five (45) feet bgs. The Cool-Ox™ solution was injected into the subsurface at designated intervals utilizing a direct push drilling rig and injection tool.

A site assessment was conducted in July and October, 2011 by HCSI personnel to determine the effectiveness of the initial treatment. Soil samples were collected from nine (9) boreholes that were drilled within the impacted area. Based on the analytical results, it was determined that approximately half of the impacted area had been remediated to levels below COGCC Table 910-1 standards for hydrocarbons in soil. Therefore, a total of 2,222 cubic yards of hydrocarbon impacted soil remained which exceeded Table 910-1 standards. Further treatment was required.

A second Cool-Ox™ treatment was conducted by DTI in November and December, 2011. An additional thrity one (31) injection points were advanced into the remaining impacted area.

A site assessment will be conducted by HCSI approximately six months after the second treatment event (May/June 2012). A series of boreholes will be drilled in the impacted area to depth of approximately fifty (50) bgs. Soil samples will be collected from each borehole and submitted to an accredited analytical laboratory for analysis.

Analytical results from the above noted site assessment will be provided on a Notice of Completion Form 4.