

FORM 4  
Rev 12/05

Page 1

State of Colorado  
Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)831-2100 Fax: (303)891-2100



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
2 Name of Operator	PDC Energy	Phone	970-285-9605	
3 Address	120 Railroad Ave STE D	City	Parachute State: CO Zip: 81635 Fax: 970-285-9619	
5 API Number	05-045-16215	OGCC Facility ID Number	335519	OP OGCC
6 Well/Facility Name	Puckell	7 Well/Facility Number	23C-24D	Survey Plat
8 Location (Ctr/Dir, Sec, Twp, Rng, Meridian)	HWSE, Sec 24, T6S R97W, 6th PM			Directional Survey
9 County	Garfield	10 Field Name	Grand Valley	Surface Equip Diagram
11 Federal Indian or State Lease Number				Technical Info Page
				Other

General Notice

CHANGE OF LOCATION: Attach New Survey Plat (a change of surface footage 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 Ctr/Dir, 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 \_\_\_\_\_

attach directional survey

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  
If not 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/part 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 7-24-2011

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

<input type="checkbox"/> Intent to Recombine (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 for Spills and Releases
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Background	

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

Signed Randall Ferguson Date: 4/24/15 Email: rdferg@pdc.com  
Print Name: Ed Winters Randall Ferguson Title: Environmental Field Coordinator

COGCC Approved ACE for Alex Fischer W. Env. Sup Date: 4/27/15  
CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 69175 API Number: 05-045-16215  
 2. Name of Operator: PDC Energy OGCC Facility ID # 335519  
 3. Well/Facility Name: Puckett Well/Facility Number: 23C-24D  
 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSE, 24, 6S, 97W, 6th

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:

A produced water release was reported to PDC Energy (PDC) on June 6, 2011. The incident tracking number is 2214912. The release was caused from a broken sight tube on a vacuum truck. Approximately sixty four (64) barrels of produced water were released onto the well pad. All released fluid was contained to the well pad. Approximately thirty five (35) barrels of fluid were recovered by vacuum truck.

HRL Compliance Solutions, Inc (HCSI) was contacted and a site investigation was conducted on June 6, 2011. Onsite field measurements, boreholes, and field screens were used to determine the lateral and vertical extent of the hydrocarbon impact

Produced Water Investigation:

A series of soil borings were installed within the impacted area by use of a hand auger. A Petroflag was utilized to field screen the impacted soil. Field screen results revealed the extent of the impacts was less than one foot below the ground surface. Field screening of the impacted soil also revealed hydrocarbon contamination which exceeded the COGCC Table 910-1 allowable standard of 500 ppm TPH in soil. Based on field measurements, it was estimated that approximately eighty-five (85) cubic yards of soil was impacted by the release.

A further site investigation was conducted on July 8, 2011. During the site characterization, field screen results revealed contaminate levels were below COGCC Table 910-1 allowable standards. A soil sample was collected to confirm field screen results. Hydrocarbon analytical results were below Table 910-1 standards. Therefore, it was determined that natural attenuation had reduced the hydrocarbon levels to below Table 910-1 standards for soils before a remediation plan could be implemented.

An additional confirmation sample was collected on July 13, 2011. A hand auger was utilized to collect the sample from approximately one foot below the ground surface. The sample was submitted to an accredited analytical laboratory for full Table 910-1 parameters. Analytical results were below COGCC standards for soil with the exception of arsenic. A soil sample location map is attached.

Arsenic:

This COGCC Form 4 is also being used to submit analytical results for arsenic at the Puckett 23C-24D well pad as well as background arsenic concentrations. In accordance with footnote 1 to the COGCC Table 910-1, the impacted area arsenic concentration is below background arsenic levels. The information is summarized below.

The request is based on the analytical results below

Puckett 23C-24D Confirmation Sample 3.6 mg/kg

Three (3) grab samples were collected from nearby non-impacted, native soil from the surface to eight (8) inches below to establish the background arsenic concentrations

Puckett 23C-24D Background 1	21 mg/kg
Puckett 23C-24D Background 2	28 mg/kg
Puckett 23C-24D Background 3	44 mg/kg

Average: 31 mg/kg

Based on the analytical results from the remediated area and the native background soil samples, PDC is requesting that a variance be approved for the remediated soil with respect to arsenic.