FORM 4 Rev 12/05

State of Colorado
Oil and Gas Conservation Commission

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

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	
2	Name of Operator:	PDC Energy		Phone:	970-285-9506
3	Address:	120 Railroad Ave. STE D		Fax:	970-285-9619
	City: Parachute	State: CO	Zip: 81635		
5	API Number:	05-045-16103		OGCC Facility ID Number:	335518
6	Well/Facility Name:	Puckett	7	Well/Facility Number:	21A-24D
8	Location (Qtr/Qtr, Sec, Twp, Rng, Meridian):	NWNW, Sec 24, T6S, R97W, 6 PM			
9	County:	Garfield	10	Field Name:	Grand Valley
11	Federal, Indian or State Lease Number:				

Complete the Attachment Checklist

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

General Notice

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

	FNL/FSL		FEL/FWL	
Change of Surface Footage from Exterior Section Lines				
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: 9-28-11

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	☐ Status Update/Change of Remediation Plans for Spills and Releases
☐ Casing/Cementing Program Change	☒ Other: Background	

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

Signed: [signature] Date: 8 June 2012 Email: ewinters@pdce.com

Print Name: Ed Winters Title: EHS Professional

COGCC Approved: ACE for Alex Fischer W CO Supervisor Date: 4/15/15

CONDITIONS OF APPROVAL, IF ANY:

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

1	OGCC Operator Number: 69175	API Number	05-045-16103
2	Name of Operator: PDC Energy	OGCC Facility ID #	335518
3	Well/Facility Name: Puckett	Well/Facility Number	21A-24D
4	Location (QtrQtr, Sec, Twp, Rng, Meridian)		NWNW, 24, 6S, 97W, 6

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 release was reported to PDC Energy (PDC)on July 24, 2011. During routine operations, a water truck backed into a manifold, breaking a six (6) inch hole in the manifold. The released fluid was water being used during fracing operations. Approximately ten (10) barrels of fluid was released onto the well pad. Valves on the manifold were closed, stopping the flow of fluid. The broken section of pipe was replaced. None of the fluid was recovered.

All released fluid was contained to the well pad and no waters or wildlife was impacted. The full extent of the release could not be fully determined at the time of the release due to frac tanks located over the spill area. A site investigation was initiated on July 24, 2011. The incident tracking number is 2215677.

Impacted Soil Investigation

Onsite field measurements and field screens were utilized to determine the extent of the impacts around and between the frac tanks located over the spill area. A hand auger and shovel were utilized to collect field screens from the accessible impacted soil. Elevated field screens were observed from the ground surface to approximately two (2) feet below the ground surface. Based on field measurements, an estimated eleven (11) yards of soil was impacted by the release. The release could not be fully characterized at depth due to frac tanks located over the spill area. A full site characterization was to be conducted upon removal of frac tanks.

Further site characterization was conducted on September 28, 2011 after the frac tanks had been removed from the location. A series of soil borings were hand augured within and around the impacted area. Field screens were collected from each of the soil borings. During the site characterization, field screen readings were below COGCC Table 910-1 standards. A confirmation soil sample was collected and analyzed for COGCC Table 910-1 parameters.

Analytical results were below COGCC Table 910-1 standards for hydrocarbons and metals in soils with the exception of arsenic and SAR. It was determined that natural attenuation had reduced the hydrocarbon levels to below Table 910-1 standards for soil before a remediation plan could be implemented.

Arsenic

This request is in accordance with footnote 1 of Table 910-1 which indicates consideration will be given to background arsenic levels in native soil and groundwater. During confirmation sampling, the analytical results indicated higher levels of arsenic from the spill area, at depth, than the background samples collected at the surface. PDC would like to request a variance in regards to arsenic levels on the pad surface wihtin the impacted area. Below are the analytical results for arsenic for review and approval to proceed with closure activities.

Puckett 21A-24D Confirmation Sample 1: 11 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 21A-24D Background Arsenic 1: 6.9 mg/kg
Puckett 21A-24D Background Arsenic 2: 6.5 mg/kg
Puckett 21A-24D Background Arsenic 3: 6.0 mg/kg

An additional background sample was collected and analyzed for SAR, EC, and pH. SAR levels collected from the impacted area on the pad surface exceeded Table 910-1 standards as noted below.

Puckett 21A-24D Confirmation SAR: 29.2

Puckett 21A-24D Background SAR: 0.7

It is anticipated that the SAR levels on the pad will naturally attenuate over time through natural precipitation and geochemical events. When the pad is scheduled for final closure and reclamation, the SAR levels will be addressed.

Analytical results are attached.