

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
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DE	ET	OE	ES
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SUNDRY NOTICE

Submit a signed original. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full in Comments or provide as an attachment. Identify Well by API Number; identify Oil and Gas Location by Location ID Number; identify other Facility by Facility ID Number.

OGCC Operator Number: 69175 Contact Name Ally Ota
 Name of Operator: PDC ENERGY INC Phone: (303) 860-5800
 Address: 1775 SHERMAN STREET - STE 3000 Fax: ()
 City: DENVER State: CO Zip: 80203 Email: alexandria.ota@pdce.com

Complete the Attachment
Checklist

OP OGCC

API Number : 05- 123 00 OGCC Facility ID Number: 457498
 Well/Facility Name: Ridgway Well/Facility Number: 3N66W1 1-6
 Location QtrQtr: NWNW Section: 1 Township: 3N Range: 66W Meridian: 6
 County: WELD Field Name: _____
 Federal, Indian or State Lease Number: _____

Survey Plat		
Directional Survey		
Srvc Eqpmt Diagram		
Technical Info Page		
Other		

CHANGE OF LOCATION OR AS BUILT GPS REPORT

- Change of Location * As-Built GPS Location Report As-Built GPS Location Report with Survey

* Well location change requires new plat. A substantive surface location change may require new Form 2A.

SURFACE LOCATION GPS DATA Data must be provided for Change of Surface Location and As Built Reports.

Latitude _____ PDOP Reading _____ Date of Measurement _____
 Longitude _____ GPS Instrument Operator's Name _____

LOCATION CHANGE (all measurements in Feet)

Well will be: _____ (Vertical, Directional, Horizontal)

Change of **Surface** Footage **From** Exterior Section Lines:

Change of **Surface** Footage **To** Exterior Section Lines:

Current **Surface** Location **From** QtrQtr NWNW Sec 1

New **Surface** Location **To** QtrQtr _____ Sec _____

Change of **Top of Productive Zone** Footage **From** Exterior Section Lines:

Change of **Top of Productive Zone** Footage **To** Exterior Section Lines:

Current **Top of Productive Zone** Location **From** Sec _____

New **Top of Productive Zone** Location **To** Sec _____

Change of **Bottomhole** Footage **From** Exterior Section Lines:

Change of **Bottomhole** Footage **To** Exterior Section Lines:

Current **Bottomhole** Location Sec _____ Twp _____

New **Bottomhole** Location Sec _____ Twp _____

Is location in High Density Area? _____

Distance, in feet, to nearest building _____, public road: _____, above ground utility: _____, railroad: _____,

property line: _____, lease line: _____, well in same formation: _____

Ground Elevation _____ feet Surface owner consultation date _____

FNL/FSL		FEL/FWL	
<u>520</u>	<u>FNL</u>	<u>735</u>	<u>FWL</u>
_____	_____	_____	_____
Twp <u>3N</u>	Range <u>66W</u>	Meridian <u>6</u>	
Twp _____	Range _____	Meridian _____	
_____	_____	_____	_____
_____	_____	_____	_____
Twp _____	Range _____		
Twp _____	Range _____		
_____	_____	_____	_____
_____	_____	_____	_____
Range _____			
Range _____			

**

**

** attach deviated drilling plan

OTHER CHANGES

REMOVE FROM SURFACE BOND Signed surface use agreement is a required attachment

CHANGE OF WELL, FACILITY OR OIL & GAS LOCATION NAME OR NUMBER

From: Name RIDGWAY Number 3N66W1 1-6 Effective Date: _____

To: Name _____ Number _____

ABANDON PERMIT: Permit can only be abandoned if the permitted operation has NOT been conducted. Field inspection will be conducted to verify site status.

WELL: Abandon Application for Permit-to-Drill (Form2) – Well API Number _____ has not been drilled.

PIT: Abandon Earthen Pit Permit (Form 15) – COGCC Pit Facility ID Number _____ has not been constructed (Permitted and constructed pit requires closure per Rule 905)

CENTRALIZED E&P WASTE MANAGEMENT FACILITY: Abandon Centralized E&P Waste Management Facility Permit (Form 28) – Facility ID Number _____ has not been constructed (Constructed facility requires closure per Rule 908)

OIL & GAS LOCATION ID Number: _____

Abandon Oil & Gas Location Assessment (Form 2A) – Location has not been constructed and site will not be used in the future.

Keep Oil & Gas Location Assessment (Form 2A) active until expiration date. This site will be used in the future.

Surface disturbance from Oil and Gas Operations must be reclaimed per Rule 1003 and Rule 1004.

REQUEST FOR CONFIDENTIAL STATUS

DIGITAL WELL LOG UPLOAD

DOCUMENTS SUBMITTED Purpose of Submission: _____

RECLAMATION

INTERIM RECLAMATION

Interim Reclamation will commence approximately _____

Per Rule 1003.e.(3) operator shall submit Sundry Notice reporting interim reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

Interim reclamation complete, site ready for inspection.

Per Rule 1003.e(3) describe interim reclamation procedure in Comments below or provide as an attachment and attach required location photographs.

Field inspection will be conducted to document Rule 1003.e. compliance

FINAL RECLAMATION

Final Reclamation will commence approximately _____

Per Rule 1004.c.(4) operator shall submit Sundry Notice reporting final reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

Final reclamation complete, site ready for inspection. Per Rule 1004.c(4) describe final reclamation procedure in Comments below or provide as an attachment.

Field inspection will be conducted to document Rule 1004.c. compliance

Comments:

ENGINEERING AND ENVIRONMENTAL WORK

NOTICE OF CONTINUED TEMPORARILY ABANDONED STATUS

Indicate why the well is temporarily abandoned and describe future plans for utilization in the COMMENTS box below or provide as an attachment, as required by Rule 319.b.(3).

Date well temporarily abandoned _____ Has Production Equipment been removed from site? _____

Mechanical Integrity Test (MIT) required if shut in longer than 2 years. Date of last MIT _____

SPUD DATE: _____

TECHNICAL ENGINEERING AND ENVIRONMENTAL WORK

Details of work must be described in full in the COMMENTS below or provided as an attachment.

NOTICE OF INTENT Approximate Start Date 10/01/2019

REPORT OF WORK DONE Date Work Completed _____

- Intent to Recomplete (Form 2 also required)
- Request to Vent or Flare
- E&P Waste Mangement Plan
- Change Drilling Plan
- Repair Well
- Beneficial Reuse of E&P Waste
- Gross Interval Change
- Rule 502 variance requested. Must provide detailed info regarding request.
- Other _____
- Status Update/Change of Remediation Plans for Spills and Releases

COMMENTS:

PDC requests to revise the mud program for this pad. The surface hole will be drilled with water based mud and the production hole will be drilled with oil based mud. All oil based drill cuttings will be disposed at a permitted commercial solid waste disposal facility. See revised waste management plan attached.

H2S REPORTING

Data Fields in this section are intended to document Sample and Location Data associated with the collection of a Gas Sample that is submitted for Laboratory Analysis.

Gas Analysis Report must be attached.

H2S Concentration: _____ in ppm (parts per million) Date of Measurement or Sample Collection _____

Description of Sample Point:

Absolute Open Flow Potential _____ in CFPD (cubic feet per day)

Description of Release Potential and Duration (If flow is not open to the atmosphere, identify the duration in which the container or pipeline would likely be opened for servicing operations.):

Distance to nearest occupied residence, school, church, park, school bus stop, place of business, or other areas where the public could reasonably be expected to frequent: _____

Distance to nearest Federal, State, County, or municipal road or highway owned and principally maintained for public use: _____

COMMENTS:

Best Management Practices

No	<u>BMP/COA Type</u>	<u>Description</u>
1	Traffic control	604c.(2).D. Access Roads: PDC will utilize an improved lease access road off of County Road 38 (gravel) for all heavy truck traffic and rig moves along with drilling operations and maintenance equipment. PDC has an approved WOGLA along with an approved traffic plan, haul route and Emergency Action Plan.
2	Dust control	PDC shall employ practices for continuous control of fugitive dust caused by operations. These practices shall include but are not limited to 1) the use of speed restrictions, 2) regular road maintenance, 3) restriction of construction activity during high-wind days, and 4) silica dust controls when handling sand used in hydraulic fracturing operations. PDC shall coordinate dust mitigation on County Road 38 with Weld County; magnesium chloride will be applied when dry. PDC shall provide dust mitigation, including the application of water or magnesium chloride, where the surface owner allows road base, around tanks and wellheads, and on roads and locations when dry. In addition, LACT automation shall be used for wells and production tanks, and all oil shall be transferred offsite via pipeline to minimize dust and emissions from truck traffic. Production tanks shall be sealed and controlled by automation to eliminate the need for manual gauging.
3	Construction	PDC plans to transport oil from this location via pipeline, as available. Oil storage tanks will remain on location for safety concerns related to an unplanned oil gathering pipeline shut downs and for routine maintenance operations. Weld County has approved the traffic plan, haul route and Emergency Action Plan.
4	Construction	604c.(2).C. Green Completions: Flowlines, 48" HLPs, sand traps all capable of supporting green completions as described in rule 805 shall be installed at any Oil and Gas location at which commercial quantities of gas and or oil are reasonably expected to be produced based on existing wells. All green completions flow back equipment will be able to handle more than 1.5 times the amount of any known volumes in the surrounding field. Construction of oil and gas pipelines is scheduled to be completed when PDC plans to be on-line for production. First sign of salable gas will be put into production equipment and turned down line. The wells will remain shut in until a gas pipeline is available.
5	Construction	604.c.(2).W. Site Specific Measures: Lights will be turned downward and away from building units within the 1,000 foot buffer area.
6	Noise mitigation	604c.(2).A. Noise: WELL PAD: PDC has conducted baseline noise surveys for all drilling rigs that are being contracted and has also conducted a baseline noise survey for hydraulic fracture stimulation operations on a representative horizontal well. These baseline surveys are utilized for site specific noise modeling to determine if any mitigation measures are warranted. A review was conducted to identify potential receptors within 1000 feet of the proposed pad site. There is one (1) building unit of concern located 839' NE. For sound mitigation, 32' sound walls will be placed on the north and east sides of the location with returns south and west. If additional sound mitigation is requested from the BU's after operations have commenced, hay bales will be placed for additional protection. PDC will maintain contact with the building unit owners to ensure all concerns are addressed during operations. PRODUCTION FACILITIES: It is not anticipated that noise mitigation will be necessary at the proposed tank battery location. After construction is completed, equipment installed and production begins, noise levels will be assessed to determine if mitigation measures will be required to be compliant with Rule 802.

7	Odor mitigation	805.b(1)-(c) Odors: Oil and gas facilities and equipment (PERMANENT AND TEMPORARY) will operate in a manner that odors do not constitute a nuisance or hazard to public welfare. Oil and gas operations will be in compliance with the Department of Public Health and Environment, Air Quality Control Commission, Regulation No. 2 Odor Emission, 5 C.C.R. 1001-4, Regulation No. 3 (5 C.C.R. 1001-5), and Regulation No. 7 Section XVII.B.1 (a-c) and Section XII. Temporary and permanent water tanks do not require additional BMPs as PDC has historically not had any odor issues. Oil based drilling fluid not being used in the active mud system shall be stored in closed, upright tanks. Additionally, an odor neutralizer will be used in the active mud system for management of odors. In an effort to keep odor from oil base cuttings as low as possible, PDC continuously hauls cuttings to an approved disposal facility throughout the drilling process. PDC shall not stockpile cuttings or store any large amount of cuttings on location. Trucks run continuously during daylight hours to keep the volume of cuttings on location at a bare minimum.
8	Drilling/Completion Operations	For location security, there will be a guard shack onsite. The guard shack will be placed off the County Road at the entrance to the location during drilling and fracing operations and will be manned 24 hours a day. The completed wellsites will be surrounded with a fence and gate. PDC personnel will monitor the wellsites daily upon completion of the wells. Authorized representatives and/or PDC personnel shall be on-site during drilling and completion operations.

Total: 8 comment(s)

Operator Comments:

This sundry is being submitted to update the BMPs as well as update the mud program. Oil Based Mud will be used for the production hole interval only for all wells drilled on this pad.

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

Signed: _____ Print Name: Venessa Chase
 Title: Regulatory Supervisor Email: venessa.chase@pdce.com Date: 8/6/2019

Based on the information provided herein, this Sundry Notice (Form 4) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: NOTO, JOHN Date: 9/23/2019

CONDITIONS OF APPROVAL, IF ANY:

COA Type	Description

General Comments

User Group	Comment	Comment Date
OGLA	Sent email to Operator requesting additional information and clarification on dust mitigation, odors from drill cuttings, and security at the location. Push to draft	08/05/2019

Total: 1 comment(s)

Attachment Check List

Att Doc Num	Name
402095166	SUNDRY NOTICE APPROVED-WASTE_PLAN
402095168	WASTE MANAGEMENT PLAN
402185256	FORM 4 SUBMITTED

Total Attach: 3 Files