

State of Colorado
Oil and Gas Conservation Commission

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



DE	ET	OE	ES
Document Number: <u>403309989</u>			
Date Received: <u>02/02/2023</u>			

SUNDRY NOTICE

This form is required for reports, updates, and requests as specified in the COGCC rules. It is also used to request changes to some aspects of approved permits for Wells and Oil and Gas Locations.

OGCC Operator Number: <u>10110</u>	Contact Name <u>Ally Ota</u>
Name of Operator: <u>GREAT WESTERN OPERATING COMPANY LLC</u>	Phone: <u>(303) 860-5800</u>
Address: <u>1775 SHERMAN STREET STE 3000</u>	Fax: ()
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u>	Email: <u>regulatory@pdce.com</u>

FORM 4 SUBMITTED FOR:

Facility Type: WELL

API Number : 05- 123 51680 00 ID Number: 481611

Name: Berry IC Number: 11-319HC

Location QtrQtr: SWNW Section: 8 Township: 3N Range: 67W Meridian: 6

County: WELD Field Name: WATTENBERG

Oil & Gas Location(s) and Oil & Gas Development Plan (OGDP) Information

Location(s)

Location ID	Location Name and Number
461939	Berry IC Pad

OGDP(s)

No OGDP

WELL LOCATION CHANGE OR AS-BUILT GPS REPORT

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

* Well Location Change requires a new Plat.

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

Latitude 40.244035 Longitude -104.921145

GPS Quality Value: 1.5 Type of GPS Quality Value: PDOP Measurement Date: 01/11/2023

Well Ground Elevation: 4844 feet (Required for change of Surface Location.)

WELL LOCATION CHANGE

Well plan is: HORIZONTAL (Vertical, Directional, Horizontal)

Change of **Surface** Footage **From:**

Change of **Surface** Footage **To:**

		FNL/FSL		FEL/FWL	
Current Surface Location From	QtrQtr <u>SWNW</u>	Sec <u>8</u>	Twp <u>3N</u>	Range <u>67W</u>	Meridian <u>6</u>
New Surface Location To	QtrQtr <u>SWNW</u>	Sec <u>8</u>	Twp <u>3N</u>	Range <u>67W</u>	Meridian <u>6</u>

Change of Top of Productive Zone Footage From:			<input type="text" value="820"/>	<input type="text" value="FSL"/>	<input type="text" value="1"/>	<input type="text" value="FEL"/>	
Change of Top of Productive Zone Footage To:			<input type="text" value="797"/>	<input type="text" value="FSL"/>	<input type="text" value="150"/>	<input type="text" value="FEL"/>	**
Current Top of Productive Zone Location	Sec	<input type="text" value="7"/>	Twp	<input type="text" value="3N"/>	Range	<input type="text" value="67W"/>	
New Top of Productive Zone Location	Sec	<input type="text" value="7"/>	Twp	<input type="text" value="3N"/>	Range	<input type="text" value="67W"/>	
Change of Base of Productive Zone Footage From:			<input type="text"/>	<input type="text" value="FSL"/>	<input type="text"/>	<input type="text" value="FEL"/>	
Change of Base of Productive Zone Footage To:			<input type="text" value="789"/>	<input type="text" value="FSL"/>	<input type="text" value="150"/>	<input type="text" value="FEL"/>	**
Current Base of Productive Zone Location	Sec	<input type="text"/>	Twp	<input type="text"/>	Range	<input type="text"/>	
New Base of Productive Zone Location	Sec	<input type="text" value="11"/>	Twp	<input type="text" value="3N"/>	Range	<input type="text" value="68W"/>	
Change of Bottomhole Footage From:			<input type="text" value="820"/>	<input type="text" value="FSL"/>	<input type="text" value="470"/>	<input type="text" value="FEL"/>	
Change of Bottomhole Footage To:			<input type="text" value="789"/>	<input type="text" value="FSL"/>	<input type="text" value="150"/>	<input type="text" value="FEL"/>	**
Current Bottomhole Location	Sec	<input type="text" value="11"/>	Twp	<input type="text" value="3N"/>	Range	<input type="text" value="68W"/>	** attach deviated drilling plan
New Bottomhole Location	Sec	<input type="text" value="11"/>	Twp	<input type="text" value="3N"/>	Range	<input type="text" value="68W"/>	

SAFETY SETBACK INFORMATION

Required for change of Surface Location.

Distance from Well to nearest:

Building: 950 Feet
 Building Unit: 1109 Feet
 Public Road: 585 Feet
 Above Ground Utility: 628 Feet
 Railroad: 5280 Feet
 Property Line: 592 Feet

INSTRUCTIONS:
 - Specify all distances per Rule 308.b.(1).
 - Enter 5280 for distance greater than 1 mile.
 - Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
 - Building Unit – as defined in 100 Series Rules.

SUBSURFACE MINERAL SETBACKS

Required for change of Top and/or Base of Productive Zone. Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? Yes

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: 507 Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation: 269 Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: _____ Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well producing from the same lease and permitted or completed in the same formation: _____ Feet

Exception Location

If this Well requires the approval of a Rule 401.c Exception Location, enter the Rule or spacing order number and attach the Exception Location Request and Waivers. _____

LOCATION CHANGE COMMENTS

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

REPORT OF TEMPORARY ABANDONMENT

Describe the method used to ensure that the Well is closed to the atmosphere and the Operator's plans for future operation of the Well in the COMMENTS box below as required by Rule 434.b.(1).

REQUEST FOR TEMPORARY ABANDONMENT EXCEEDING 6 MONTHS

State the reason for the extension request and explain the Operator's plans for future operation of the Well in the COMMENTS box below as required by Rule 434.b.(3).

Date well temporarily abandoned _____
Has Production Equipment been removed from site? _____
Mechanical Integrity Test (MIT) required. Date of last MIT _____

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/REQUEST FOR APPROVAL Approximate Start Date 10/01/2023

SUBSEQUENT REPORT Date of Activity _____

<input type="checkbox"/> Bradenhead Plan	<input type="checkbox"/> Venting or Flaring (Rule 903)	<input type="checkbox"/> E&P Waste Mangement
<input checked="" type="checkbox"/> Change Drilling Plan	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Change		
<input type="checkbox"/> Underground Injection Control		
<input type="checkbox"/> Request approval of Reuse and Recycling Plan per Rule 905.a.(3). (Reuse and Recycling Plan must be attached.)		
<input type="checkbox"/> Request approval of Alternative Sampling Plan per Rule 909.j.(6). for this Pit. (Alternative Sampling Program must be attached.)		
<input type="checkbox"/> Other		

Request that an existing produced water sample from the same formation be used per Rule 909.j.(6) to meet the requirements of Rule 909.j.(1)-(5) for this Well.

Pit ID _____ Pit Name _____
(No Sample Provided)

Subsequent well operations with heavy equipment (Rule 312)
(No Well Provided)

COMMENTS:

PDC requests to change the SHL, EP, and BHL of this well. Attached is a revised well location plat and deviated drilling plan.

GAS CAPTURE

VENTING AND FLARING:

Operation type: _____ Operational phase requiring venting/flaring: _____

Reason for venting/flaring: _____

Describe Other reason for venting/flaring:

Describe why venting or flaring is necessary. If reporting per Rule 903.b.(2), 903.c.(3).C, or 903.d.(2), include the explanation, rationale, and cause of the event:

Describe how the operation will protect and minimize adverse impacts to public health, safety, welfare, the environment, and wildlife resources. If reporting per Rule 903.d.(2), include BMPs used to minimize venting on the BMP Tab:

Total volume of gas vented or flared: _____ mcf estimated measured

Total duration of emission event: _____ hours consecutive cumulative

Submit a single representative gas analysis via Form 43 to create a Sample Site Facility ID# for this Location. Reference the Form 43 document number on the Related Forms tab.

Sample Site Facility ID#: _____

GAS CAPTURE PLAN

Describe the plan to connect to a gathering line or beneficially use the gas; include anticipated timeline:

A Gas Capture Plan that meets the requirements of Rule 903.e is attached.

CASING PROGRAM

<u>Casing Type</u>	<u>Size of Hole</u>	<u>Size of Casing</u>	<u>Grade</u>	<u>Wt/Ft</u>	<u>Csg/Liner Top</u>	<u>Setting Depth</u>	<u>Sacks Cmt</u>	<u>Cmt Btm</u>	<u>Cmt Top</u>
SURF	13+1/2	9+5/8	J-55	36	0	1650	650	1650	0
1ST	8+1/2	5+1/2	P-110	20	0	18798	3300	18798	

POTENTIAL FLOW AND CONFINING FORMATIONS

<u>Zone Type</u>	<u>Formation /Hazard</u>	<u>Top M.D.</u>	<u>Top T.V.D.</u>	<u>Bottom M.D.</u>	<u>Bottom T.V.D.</u>	<u>TDS (mg/L)</u>	<u>Data Source</u>	<u>Comment</u>
Confining Layer	Pierre Shale	530	530	655	655			
Groundwater	UPIR/Pawnee Aquifer	655	655	1235	1235	1001-10000	Other	COGCC UPWQ Study
Confining Layer	Pierre Shale	1235	1235	3555	3555			
Hydrocarbon	Parkman	3555	3555	3865	3865			
Confining Layer	Pierre Shale	3865	3865	3995	3995			
Hydrocarbon	Sussex	3995	3995	4200	4200			
Confining Layer	Pierre Shale	4200	4200	4535	4535			
Hydrocarbon	Shannon	4535	4535	4575	4575			
Confining Layer	Pierre Shale	4575	4575	7540	6828			
Subsurface Hazard	Sharon Springs Shale	7540	6828	7607	6879			
Hydrocarbon	Niobrara	7607	6879	8117	7131			
Confining Layer	Fort Hays	8117	7131	8200	7146			
Hydrocarbon	Codell	8200	7146	18798	7207			

H2S REPORTING

- Intentional release of H2S gas due to Upset Condition or malfunction.
- Intent to temporarily abandon well with potential H2S concentration >100 ppm.

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:

OIL & GAS LOCATION UPDATES

OGDP ID _____ OGDP Name _____

SITE EQUIPMENT LIST UPDATES

Indicate the number and type of major equipment components planned for use on this Oil and Gas Location:

Wells _____	Oil Tanks _____	Condensate Tanks _____	Water Tanks _____	Buried Produced Water Vaults _____
Drilling Pits _____	Production Pits _____	Special Purpose Pits _____	Multi-Well Pits _____	Modular Large Volume Tank _____
Pump Jacks _____	Separators _____	Injection Pumps _____	Heater-Treaters _____	Gas Compressors _____
Gas or Diesel Motors _____	Electric Motors _____	Electric Generators _____	Fuel Tanks _____	LACT Unit _____
Dehydrator Units _____	Vapor Recovery Unit _____	VOC Combustor _____	Flare _____	Enclosed Combustion Devices _____
Meter/Sales Building _____	Pigging Station _____	Vapor Recovery Towers _____		

OTHER PERMANENT EQUIPMENT UPDATES

OTHER TEMPORARY EQUIPMENT UPDATES

CULTURAL AND SAFETY SETBACK UPDATES

OTHER LOCATION CHANGES AND UPDATES

Provide a description of other changes or updates to technical information for this Location:

[Empty text box]

POTENTIAL OGDG UPDATES

PROPOSED CHANGES TO AN APPROVED OGDG

This Sundry Form 4 is being submitted pursuant to Rule 301.c to propose changes to an approved Oil and Gas Development Plan.

Check all boxes that pertain to the type(s) of changes being proposed for this OGDG:

- Add Oil and Gas Location(s)
- Add Drilling and Spacing Unit(s)
- Amend Oil and Gas Location(s)
- Amend Drilling and Spacing Unit(s)
- Remove Oil and Gas Location(s)
- Remove Drilling and Spacing Unit(s)
- Oil and Gas Location attachment or plan updates
- Amend the lands subject to the OGDG
- Other

Provide a detailed description of the changes being proposed for this OGDG. Attach supporting documentation such as maps if necessary.

[Empty text box]

Best Management Practices

No BMP/COA Type

Description

No BMP/COA Type	Description

Operator Comments:

The Fox Hills in this area is not present/unlogged.
 Sundry is being submitted to change SHL, TPZ and BHL, as well as update well name. This location has been built.
 The distance from the completed zone to the completed zone of an offset well within the same unit was measured to the Berry 16N (05-123-51679) via COGCC GIS mapping, 2D plain view.

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

Signed: _____ Print Name: Ally Ota
 Title: Regulatory Analyst Email: alexandria.ota@pdce.com Date: 2/2/2023

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

COGCC Approved: ANDREWS, DOUG Date: 3/24/2023

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

COA Type	Description
0 COA	

General Comments

User Group

Comment

Comment Date

Engineer	COAs listed on form 2.	02/07/2023
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Total: 1 comment(s)

Attachment List

Att Doc Num	Name
403309989	SUNDRY NOTICE APPROVED-LOC-SFTY-STBK-MNRL-STBK-OBJ-NAME-DRLG-CSG
403310077	WELL LOCATION PLAT
403310078	OFFSET WELL EVALUATION
403310079	DEVIATED DRILLING PLAN
403310080	DIRECTIONAL DATA
403355721	FORM 4 SUBMITTED

Total Attach: 6 Files