

**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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Date Received:			

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

FORM 4 SUBMITTED FOR:

Facility Type: WELL
 API Number : 05-0011033500 ID Number: 460111
 Name: Brant LE Number: 08-239HN
 Location QtrQtr: SENE Section: 11 Township: 1S Range: 67W Meridian: 6
 County: ADAMS Field Name: WATTENBERG

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

Location(s)

Location ID	Location Name and Number
460107	Brant LD 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 39.980553 Longitude -104.847997
 GPS Quality Value: 1.5 Type of GPS Quality Value: PDOP Measurement Date: 10/26/2020
 Well Ground Elevation: 4973 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>SENE</u> Sec <u>11</u>	Twp <u>1S</u>	Range <u>67W</u>	Meridian <u>6</u>	
New Surface Location To	QtrQtr <u>SENE</u> Sec <u>11</u>	Twp <u>1S</u>	Range <u>67W</u>	Meridian <u>6</u>	

Change of **Top of Productive Zone** Footage **From:**

2355 FSL

460 FWL

Change of **Top of Productive Zone** Footage **To:**

430 FSL

600 FEL

**

Current **Top of Productive Zone** Location

Sec 12

Twp 1S

Range 67W

New **Top of Productive Zone** Location

Sec 12

Twp 1S

Range 67W

Change of **Base of Productive Zone** Footage **From:**

FSL

FWL

Change of **Base of Productive Zone** Footage **To:**

430 FSL

600 FEL

**

Current **Base of Productive Zone** Location

Sec

Twp

Range

New **Base of Productive Zone** Location

Sec 8

Twp 1S

Range 66W

Change of **Bottomhole** Footage **From:**

2355 FSL

370 FEL

Change of **Bottomhole** Footage **To:**

430 FSL

600 FEL

**

Current **Bottomhole** Location

Sec 08

Twp 1S

Range 66W

** attach deviated drilling plan

New **Bottomhole** Location

Sec 8

Twp 1S

Range 66W

SAFETY SETBACK INFORMATION

Required for change of Surface Location.

Distance from Well to nearest:

Building: 513 Feet
 Building Unit: 696 Feet
 Public Road: 213 Feet
 Above Ground Utility: 707 Feet
 Railroad: 5280 Feet
 Property Line: 201 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: 600 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: 376 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

Surface hole is updated to reflect the as-drilled location of the preset surface casing. Change is less than 1 foot.

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>
1ST	8+1/2	5+1/2	P-110	20	0	23155	2035	23155	2000

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>
Groundwater	Fox Hills Sandstone	706	706	915	915	1001-10000	Other	COGCC UPWQ Study
Confining Layer	Pierre Shale	915	915	1102	1102			
Groundwater	UPIR/Pawnee Aquifer	1102	1102	2055	2054	1001-10000	Other	COGCC UPWQ Study
Confining Layer	Pierre Shale	2055	2054	4396	4395			
Hydrocarbon	Parkman	4396	4395	4582	4581			
Confining Layer	Pierre Shale	4582	4581	4835	4834			
Hydrocarbon	Sussex	4835	4834	4972	4971			
Confining Layer	Pierre Shale	4972	4971	5301	5300			
Hydrocarbon	Shannon	5301	5300	5487	5486			
Confining Layer	Pierre Shale	5487	5486	7270	7267			
Subsurface Hazard	Sharon Springs Shale	7270	7267	8405	7346			
Hydrocarbon	Niobrara	8405	7346	23155	7246			

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:

POTENTIAL OGDP 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.

Best Management Practices

No	BMP/COA Type	Description

Operator Comments:

This Form 4 is being submitted to change the TPZ, BPZ, and BHL. This well was spud and surface casing has been set. A preliminary Form 5, doc #402545009, has been submitted to provide the as built SHL information. The Brant Federal 19N (05-001-10325), is the nearest well in the same formation, the distance was measured via the attached anti-collision report.

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: _____

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

COGCC Approved: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

COA Type	Description

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)

Attachment List

Att Doc Num	Name
403124061	OFFSET WELL EVALUATION
403124064	DEVIATED DRILLING PLAN
403124065	DIRECTIONAL DATA
403125195	WELL LOCATION PLAT

Total Attach: 4 Files