

# State of Colorado Oil and Gas Conservation Commission

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DE	ET	OE	ES
Document Number: <b>400738486</b>			
Date Received: <b>11/21/2014</b>			

## 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: 10439 Contact Name Andrea Park  
 Name of Operator: CARRIZO NIOBRARA LLC Phone: (713) 457-7070  
 Address: 500 DALLAS STREET #2300 Fax: ( )  
 City: HOUSTON State: TX Zip: 77002 Email: andrea.park@crzo.com

Complete the Attachment  
Checklist

OP OGCC

API Number : 05- 123 39440 00 OGCC Facility ID Number: 437191  
 Well/Facility Name: HEMBERGER Well/Facility Number: 5-25-8-60  
 Location QtrQtr: SWSW Section: 25 Township: 8N Range: 60W Meridian: 6  
 County: WELD Field Name: WILDCAT  
 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 SWSW Sec 25

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 25

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 25 Twp 8N

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>387</u>	<u>FSL</u>	<u>851</u>	<u>FWL</u>
_____	_____	_____	_____
Twp <u>8N</u>	Range <u>60W</u>	Meridian <u>6</u>	
Twp _____	Range _____	Meridian _____	
<u>300</u>	<u>FSL</u>	<u>1200</u>	<u>FWL</u>
_____	_____	_____	_____
Twp <u>8N</u>	Range <u>60W</u>		
Twp _____	Range _____		
<u>600</u>	<u>FNL</u>	<u>1200</u>	<u>FWL</u>
_____	_____	_____	_____
Twp <u>8N</u>	Range <u>60W</u>		
Twp _____	Range _____		

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\*\* attach deviated drilling plan

**CHANGE OR ADD OBJECTIVE FORMATION AND/OR SPACING UNIT**

<u>Objective Formation</u>	<u>Formation Code</u>	<u>Spacing Order Number</u>	<u>Unit Acreage</u>	<u>Unit Configuration</u>

**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 HEMBERGER Number 5-25-8-60 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 09/20/2014

☐ REPORT OF WORK DONE Date Work Completed \_\_\_\_\_

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Intent to Recomplete (Form 2 also required) | <input type="checkbox"/> Request to Vent or Flare   | <input type="checkbox"/> E&P Waste Mangement Plan      |
| <input 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"/> Rule 502 variance requested. Must provide detailed info regarding request. |  |
| <input checked="" type="checkbox"/> Other <u>Gas analysis</u>        | <input type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases          |  |

**COMMENTS:**

A complete gas sample analysis is attached.

Gas was flared for 13 days during a 30-day period beginning September 20, 2014. The average flaring volume during this period was 60.35 MCF/D; volumes were measured daily. A pipeline connection was established September 25, 2014 and gas has been flowing to sales. Frequency of flaring will decrease as the flowback and maintenance phase of the well is completed.

There is a presence of H2S; test results showed 1ppm.

**CASING AND CEMENTING CHANGES**

Casing Type	Size	Of	/	Hole	Size	Of	/	Casing	Wt/Ft	Csg/LinTop	Setting Depth	Sacks of Cement	Cement Bottom	Cement Top

**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: 1 in ppm (parts per million) Date of Measurement or Sample Collection 10/20/2014

Description of Sample Point:

The sample was collected at the sales point at Hemberger 5-25-8-60 at 16:05.

Absolute Open Flow Potential 0 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: 5280 FEET

Distance to nearest Federal, State, County, or municipal road or highway owned and principally maintained for public use: 4895 FEET

COMMENTS:

Distances of 5280 feet are more than a mile away.

Best Management Practices

No	BMP/COA Type	Description

**Operator Comments:**

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

Signed: \_\_\_\_\_ Print Name: Andrea Park  
Title: EH&S Analyst Email: andrea.park@crzo.com Date: 11/21/2014

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

COGCC Approved: SUTPHIN, DIRK Date: 3/13/2015

**CONDITIONS OF APPROVAL, IF ANY:****COA Type****Description**

	1) The venting or flaring of natural gas shall be conducted in accordance with COGCC Rule 912 for the initial production test period. 2) Notify the local emergency dispatch or the local governmental designee of any natural gas flaring. 3) If flaring will continue more than 6 months, submit updated requests to flare to COGCC on Form 4 (Sundry Notice), which discusses timing to connect to sales line, plans to develop infrastructure, and justification for continued venting/flaring. 4) The operator is required to obtain and maintain any required air permits from CDPHE. 5) The venting or flaring volumes shall be reported by Form 7, Operator's Monthly Report of Operations.
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**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Environmental	The H2S and gas analysis data weere entered into the CO_Env database.	11/24/2014 11:00:05 AM

Total: 1 comment(s)

**Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400738486	FORM 4 SUBMITTED
400738490	GAS ANALYSIS REPORT

Total Attach: 2 Files