

**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>400984555</u>			
Date Received: <u>02/23/2016</u>			

**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: 10524 Contact Name Kristina Lee  
Name of Operator: GRMR OIL & GAS LLC Phone: (303) 6599581  
Address: 370 INTERLOCKEN BLVD SUITE 550 Fax: ( )  
City: BROOMFIELD State: CO Zip: 80021 Email: krislee@skybeam.com

Complete the Attachment  
Checklist

OP OGCC

API Number : 05- 081 07824 00 OGCC Facility ID Number: 444245  
Well/Facility Name: Stover Federal Well/Facility Number: 9-12 1D  
Location QtrQtr: NWSW Section: 9 Township: 4N Range: 90W Meridian: 6  
County: MOFFAT Field Name: WILDCAT  
Federal, Indian or State Lease Number: COC68818

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 40.327403 PDOP Reading 2.0 Date of Measurement 01/19/2016  
Longitude -107.517933 GPS Instrument Operator's Name Moartin Pierce

**LOCATION CHANGE (all measurements in Feet)**

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

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

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

Current **Surface** Location **From** QtrQtr NWSW Sec 9

New **Surface** Location **To** QtrQtr NWSW Sec 9

FNL/FSL		FEL/FWL	
<u>1843</u>	<u>FSL</u>	<u>307</u>	<u>FWL</u>
<u>1859</u>	<u>FSL</u>	<u>390</u>	<u>FWL</u>
Twp <u>4N</u>	Range <u>90W</u>	Meridian <u>6</u>	
Twp <u>4N</u>	Range <u>90W</u>	Meridian <u>6</u>	

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 9

New **Top of Productive Zone** Location **To** Sec 9

<u>566</u>	<u>FSL</u>	<u>556</u>	<u>FWL</u>
<u>566</u>	<u>FSL</u>	<u>556</u>	<u>FWL</u>
Twp <u>4N</u>	Range <u>90W</u>		
Twp <u>4N</u>	Range <u>90W</u>		
<u>383</u>	<u>FNL</u>	<u>734</u>	<u>FWL</u>
<u>383</u>	<u>FNL</u>	<u>734</u>	<u>FWL</u>

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

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

Current **Bottomhole** Location Sec 16 Twp 4N

New **Bottomhole** Location Sec 16 Twp 4N

Range 90W \*\* attach deviated drilling plan  
Range 90W

Is location in High Density Area? No

Distance, in feet, to nearest building 2617, public road: 1860, above ground utility: 783, railroad: 5280,  
property line: 1843, lease line: 0, well in same formation: 1860

Ground Elevation 6906 feet Surface owner consultation date 07/15/2015

**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 STOVER FEDERAL Number 9-12 1D 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 05/16/2016

☐ 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 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"/> Rule 502 variance requested. Must provide detailed info regarding request. |  |
| <input type="checkbox"/> Other _____                                 | <input type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases          |  |

COMMENTS:

#### 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
Conductor Casing	30				20				104	0	60	210	60	0
Surface String	17	1		2	13	3		8	54.5	0	500	410	500	0
First String	12	1		4	9	5		8	36	0	3916	830	3916	
Second String	8	3		4	5	1		2	15.5	0	4900			

#### 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 BMP/COA Type**

**Description**

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Operator Comments:

The surface location was moved slightly on this well - attached are new drilling plan, deviation plan, well bore diagram and new well plat

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

Signed: \_\_\_\_\_ Print Name: Kristina Lee  
Title: Regulatory Consultant Email: krislee@skybeam.com Date: 2/23/2016

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, DAVE Date: 4/28/2016

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

	<p>Conditions of Approval (COA) #1, #2, and #3 copied from Form 2 #400891777, with modification of COA #3 to account for change of casing size shown on this Form 4. COA #4 is new, based on the change of wellbore path resulting from the new surface location.</p> <p>1) Operator shall comply with the most current revision of the Northwest Notification Policy.</p> <p>2) Minimum surface casing setting depth requirements: 50' below the base of the Morapos Formation with the shoe in Mancos Shale or 500', as proposed by the operator, whichever is deeper. Full cement to surface is required for the surface casing; increase cement volume as necessary to accomplish that objective. Refer to COGCC's comment on this form regarding the operator's prognosed depth to the Morapos Formation.</p> <p>3) Operator shall provide cement coverage from the production casing shoe (9+5/8" First String) to a minimum of 200' above the surface casing shoe to provide isolation of all Cretaceous oil, gas, and water-bearing sandstone and coalbed formations that are not otherwise covered by surface casing. Verify production casing cement coverage with a cement bond log.</p> <p>4) Operator shall perform an anti-collision evaluation for offset Dry and Abandoned well Federal M-9-4-90-S (081-06642) that has the potential of being within 150 feet of the proposed well prior to drilling operations for the proposed well (Rule 317.r. notice is not required).</p>
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**General Comments****User Group****Comment****Comment Date**

Engineer	Per operator agent, Kris Lee, via phone on 4/28/2016, changed distance to nearest lease line from 3550' to zero. As indicated in the operator comment on Form 2 #400891932, "Lease lines not applicable; this well is located in a 'federal' unit."	4/28/2016 2:48:36 PM
Engineer	<p>Operator reports "Distance to nearest well in same formation: 832 feet." The offset well, Federal M-9-4-90-S (081-06642), located SSE of this proposed well plots within 150' in plan view of the revised wellbore path for this proposed well. Anticollision measures are required, per Condition of Approval #4. Per operator agent, Kris Lee, via phone on 4/28/2016, changed "distance to nearest well in same formation" [by another operator] to 149'. Offset well Federal M-9-4-90-S has a Dry and Abandoned status, and therefore Rule 317.r. offset operator notice is not required.</p> <p>Offset oil and gas well evaluation previously completed on Form 2 #400891777, and operator stated the following on the Form 2, "This horizontal well will NOT be Fracture Stimulated; so Offset Wells Evaluation is Not Applicable." COGCC previously completed an evaluation of offset wells on the Form 2. No mitigation required, except as noted below for Herring Draw #1-9 (081-07668). Refer to Form 2 #400891777 for additional offset well evaluation details. Offset well Federal M-9-4-90-S has a Dry and Abandoned status, and this proposed well will not be stimulated. Therefore Rule 317.s. offset stimulation setback consent is not required.</p> <p>Evaluated offset PR well Herring Draw #1-9 (081-07668), TD at 6543' in the Niobrara Formation. Surface casing is set at 585' and cemented to surface, intermediate casing is set at 2766' and cemented into the surface casing, an uncemented, pre-perforated production liner is hung from the intermediate casing from 2522' to 6543'. Lateral offset distance is approximately 270' in plan (map) view from the proposed well. If stimulation is considered for the proposed well in the future, then bradenhead monitoring of this offset well would be required (if so, contact COGCC Engineering staff for specific requirements).</p>	4/28/2016 2:20:23 PM
Engineer	Offset water well check: Offset, permitted water wells within 1 mile of this proposed surface hole location have no depths reported.	4/28/2016 2:20:04 PM

Engineer	This Comment copied from Form 2 #400891777, with modification to account for change of new surface location elevation and casing size shown on this Form 4: Mancos Formation outcrops at the surface. The operator's prognosed depth to the Morapos Formation (a shallow, potential water source) is 102' to 282', which would be covered by the operator's proposed surface casing setting depth of 500'. However, the Morapos Formation is evident on an offset induction log for Federal M-9-4-90-S (081-06642) from 706' to approximately 986'. Accounting for differences in ground surface elevation, but not accounting for potential geologic dip, the base of the Morapos Formation may be as deep as 636' in this proposed well. Surface casing coverage of the Morapos Formation is required, as specified in Condition of Approval #2. COGCC concurs with the operator's plan to cement the production casing (9+5/8" First String) into the surface casing.	4/28/2016 2:16:54 PM
Engineer	First String depth change from 3402' MD (below Buck Peak top with original plan), as approved on Form 2 #400891777, to 3916' MD (below Niobrara top with this revised plan), as shown on this Form 4, is acceptable.	4/28/2016 2:15:15 PM
Engineer	Liner top submitted by operator is 3916', which is the same depth as the First String shoe. Liner top depth should be at a point above the First String shoe. Attached Federal Drilling Program Section 4A Casing Program shows the 5+1/2" string to surface, which would be a Second String, not a First Liner. Contacted operator on 4/27/2016 for verification of 5+1/2" string configuration and top depth. Operator agent, Kris Lee, agreed with casing designation change from First Liner to Second String via email on 4/28/2016.	4/28/2016 2:13:01 PM
Engineer	Operator provided the following values for conductor pipe on this Form 4: size of hole 26", size of casing 20+104/40" diameter, weight 15.8 ppf (15.8 appears to be the cement density in ppg on the attached Federal Drilling Program, not the pipe weight). Attached wellbore diagram shows 0.5" thick, 20" pipe in 30" hole from surface to 60' (no weight specified on wellbore diagram). Contacted operator on 4/27/2016 for corrections to conductor pipe hole size, pipe diameter, and weight per foot. Operator agent, Kris Lee, confirmed conductor details via email on 4/28/2016; changed to 20", 104 ppf pipe in a 30" hole.	4/28/2016 2:11:42 PM
Engineer	Minor change of surface location proposed with this Form 4. Approved Form 2 #400891777 COGCC Permit comment states, "Corrected distance to public road from 5081' to 1807' as per operator." The distance to public road submitted by operator on this Form 4 is "5081 feet," which is not consistent with the change on the approved Form 2. Contacted the operator on 4/27/2016 for correct value of distance to public road with the new surface location. Operator agent, Kris Lee, agreed with change of distance to public road (Road 378), as measured on COGCC's GIS to approximately 1860' using new surface location.	4/28/2016 2:08:39 PM
Permit	Deleted incorrect Directional Data Sheet. Renamed attachment called "Deviated Drilling Plan" to Operations Summary and notified operator. Renamed attachment called "Other" to Directional Survey and notified operator.	2/24/2016 7:35:44 AM
Permit	Directional data has errors. Notified Operator and returning to draft.	2/23/2016 9:32:05 AM
Permit	Directional data has errors. Notified Operator and returning to draft.	2/18/2016 7:32:14 AM
Permit	Sending form back to draft so that the operator can upload the directional data sheet and correctly rename the attachments.	2/16/2016 3:15:08 PM

Total: 12 comment(s)

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400984555	FORM 4 SUBMITTED
400987921	OPERATIONS SUMMARY
400987924	WELLBORE DIAGRAM
400987926	DIRECTIONAL SURVEY
400987930	WELL LOCATION PLAT
400994143	DIRECTIONAL DATA

Total Attach: 6 Files