

**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>401001919</u>			
Date Received: <u>03/08/2016</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:	10396	Contact Name	Brandon Yaw
Name of Operator:	SWN PRODUCTION COMPANY LLC		Phone: (832) 796-6043
Address:	PO BOX 12359		Fax: ( )
City:	SPRING	State: TX	Zip: 77391
			Email: barndon_yaw@swn.com

### Complete the Attachment Checklist

OP OGCC

API Number :	05-	081	07672	00	OGCC Facility ID Number:	425037
Well/Facility Name:	Horse Gulch Federal			Well/Facility Number:	13-12	
Location	QtrQtr: NWSW	Section:	12	Township:	6N	Range: 93W Meridian: 6
County:	MOFFAT		Field Name:	WILDCAT		
Federal, Indian or State Lease Number:	COC65175					

Survey Plat		
Directional Survey		
Srvc Eqpmnt 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 <b>Surface</b> Location <b>From</b>	QtrQtr	NWSW	Sec	12
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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 <b>Top of Productive Zone</b> Location From	Sec	
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New Top of Productive Zone Location To	Sec	
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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	
2012	FSL	700	FWL
Twp 6N	Range 93W	Meridian 6	
Twp	Range	Meridian	
			**
Twp	Range		
Twp	Range		
			**
Range		** attach deviated drilling plan	
Range			

\*\* 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 HORSE GULCH FEDERAL Number 13-12 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 07/01/2016

☐ 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 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>Cement job</u>          | <input type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases          |  |

#### COMMENTS:

Southwestern Energy intends to remediate the un-cemented zone on this well. Our plan is to perforate the production casing and squeeze cement to above the surface casing shoe. Cement top will be verified with a CBL.

Due to wildlife stipulations, we are unable to begin this work before July 1, 2016. However, we will make plans to begin the work as soon as the stipulations are lifted.

#### 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: \_\_\_\_\_ 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**

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>

Operator Comments:

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

Signed: \_\_\_\_\_

Print Name: Brandon Yaw

Title: Sr. Staff Reg. Analyst

Email: barndon\_yaw@swn.com

Date: 3/8/2016

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: 7/2/2016

**CONDITIONS OF APPROVAL, IF ANY:**

<u>COA Type</u>	<u>Description</u>

## General Comments

User Group	Comment	Comment Date
Engineer	<p>Operator submitted a Form 6, Notice of Intent to Abandon, on 5/26/2016, COGCC Document #401054040. The Form 6 is being processed by COGCC staff concurrently with this Form 4. The remedial procedure with cement bond log verification of remediation, as described in this Form 4 would be an acceptable alternative to plugging and abandonment if the operator chooses not to plug and abandon the well.</p> <p>Form 4 #400795967 was approved on 3/10/2015, with a COGCC Comment stating, "Form 5 (Drilling Completion Report) #400491755 was conditionally approved on 2/25/2015 without a First String (5-1/2" casing) CBL to verify geologic isolation. A CBL was required per Form 2 (Application for Permit to Drill) #400181843 Condition of Approval #2 (verify cement top with CBL)..." and a Condition of Approval stating, "1) Operator shall run a CBL on the 5-1/2" First String to verify cement coverage across the Mesaverde Group no later than 7/31/2015."</p> <p>Operator ran a Radial Cement Bond Log on 6/22/2015, COGCC Document No. 400857194, with a First String 5+1/2" casing estimated cement top of 3660', which is below the surface casing setting depth of 3415'. Casing pressure was zero, and bradenhead pressure was reported as 25 psi several months prior to running the CBL.</p> <p>Operator submitted a Form 4 #400881925 on 8/11/2015, requesting continued bradenhead monitoring. Casing pressure was reported as zero, and bradenhead pressure was reported as zero on the Form 4. The Form 4 was approved on 9/8/2015 with Comments stating, "A recent CBL was run to verify cement coverage behind the 9+5/8" First String. Top of cement is approximately 3658', with the interval from 3658' to 3415' (surface casing shoe) uncemented. An open hole log in COGCC's well file shows possible coal seams and a few zones with neutron-density crossover in the uncemented interval, which appears to be in the Iles Formation (reported tops MVRD 1200', ILES 2960', MNCS 4406')." and following Conditions of Approval stating, "1) The requested monitoring period shall not exceed six months from this approval, expiring on 3/8/2016. 2) Cement remediation or an isolation demonstration is required by the end of the six month period, or no later than 3/8/2016. This information shall be submitted by Form 4, Sundry Notice, to: 1) describe SWN's plans to remedially cement the uncemented interval, or 2) demonstrate that the existing wellbore configuration is adequate to meet the intent of Rule 209 (Protection of Coal Seams and Water-Bearing Formations) and Rule 317.e. (Casing and cement program to protect hydrocarbon formations and ground water) with regard to prevention of oil, gas, and water from migrating from one formation to another behind the casing."</p> <p>Email Correspondence from the operator to COGCC Engineering staff on 9/10/2016 stated, "After review of the approved Form 4 (Doc #400881925, API 081-07672) extending the monitoring period on the Horse Gulch Federal 13-12 with the condition to plug the well no later than March 8, 2016, SWN would like the COGCC to consider extending the date to July 15, 2016. The well is located in NWSW of S12 T6N R93W, within SWH area, with stipulations from December 1 through March 15. Access to the well site is a 4 mile dirt road. With winter quickly approaching, the average snowfall in the area is 3-4' deep with the only means of access being by snowmobile. Given it is early September, SWN is not be able to engineer and schedule the work and equipment needed to plug the well prior to snowfall 2015. The snow melt in the spring creates extremely muddy conditions rendering the location inaccessible. SWN respectfully requests your consideration to extend the plugging date to July 15, 2016 due weather related conditions."</p> <p>COGCC approved the extension request to 7/15/2016 via email on 9/10/2015, allowing three options: 1) plug and abandon the well; 2) remediate the well to provide cement coverage across the uncemented interval behind the First String [as contemplated by the operator as shown on this Form 4 #401001919]; or provide a geologic isolation demonstration on a new Form 4 to show that the existing wellbore configuration is adequate to meet the intent of Rule 209 and Rule 317.e.</p>	7/2/2016 11:35:27 AM

Total: 1 comment(s)

## Attachment Check List

**Att Doc Num**

**Name**

401001919

FORM 4 SUBMITTED

Total Attach: 1 Files