

**State of Colorado  
Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
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DE	ET	OE	ES
Document Number: <b>401133432</b>			
Date Received: <b>10/20/2016</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: 10110 Contact Name Allison Schieber  
 Name of Operator: GREAT WESTERN OPERATING COMPANY LLC Phone: (303) 398-0355  
 Address: 1801 BROADWAY #500 Fax: ( )  
 City: DENVER State: CO Zip: 80202 Email: aschieber@gwogco.com

Complete the Attachment  
Checklist  
  
OP OGCC

API Number : 05- 123 43445 00 OGCC Facility ID Number: 447008  
 Well/Facility Name: Dittmer KE Well/Facility Number: 20-029HN  
 Location QtrQtr: NENW Section: 32 Township: 1N Range: 66W Meridian: 6  
 County: WELD Field Name: WATTENBERG  
 Federal, Indian or State Lease Number: \_\_\_\_\_

Survey Plat		
Directional Survey		
Srfc 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 40.011917 PDOP Reading 1.5 Date of Measurement 04/03/2015  
 Longitude -104.802617 GPS Instrument Operator's Name Dallas Nielsen

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

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

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

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

Current **Surface** Location **From** QtrQtr NENW Sec 32

New **Surface** Location **To** QtrQtr NENW Sec 32

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 29

New **Top of Productive Zone** Location **To** Sec 29

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

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

Current **Bottomhole** Location Sec 20 Twp 1N

New **Bottomhole** Location Sec 20 Twp 1N

Is location in High Density Area? Yes

Distance, in feet, to nearest building 934, public road: 1092, above ground utility: 905, railroad: 2559,

property line: 220, lease line: 370, well in same formation: 167

Ground Elevation 4966 feet Surface owner consultation date 08/21/2015

FNL/FSL		FEL/FWL	
<u>1103</u>	<u>FNL</u>	<u>2174</u>	<u>FWL</u>
<u>1103</u>	<u>FNL</u>	<u>2174</u>	<u>FWL</u>
Twp <u>1N</u>	Range <u>66W</u>	Meridian <u>6</u>	
Twp <u>1N</u>	Range <u>66W</u>	Meridian <u>6</u>	
<u>460</u>	<u>FSL</u>	<u>2363</u>	<u>FWL</u>
<u>460</u>	<u>FSL</u>	<u>2363</u>	<u>FWL</u> **
Twp <u>1N</u>	Range <u>66W</u>		
Twp <u>1N</u>	Range <u>66W</u>		
<u>470</u>	<u>FNL</u>	<u>2357</u>	<u>FWL</u>
<u>370</u>	<u>FNL</u>	<u>2357</u>	<u>FWL</u> **

\*\* attach deviated drilling plan



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    10/19/2016

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:**

Dittmer KE 20-029HN - Request to Extend TD

The following information is provided in support of Great Western's request to extend the TD of the Dittmer KE 20-029HN wellbore.

Well Information:

- The Dittmer KE 20-029HN well is a 2 section well targeting the Codell formation.
- The well has been spud and surface casing is set at 1975' which covers the Fox Hills as well as the Upper Pierre formation.
- This well is a mono-bore well with the following general design:
  - o 13-1/2" surface hole drilled to 1975' (done)
  - o 9-5/8" surface casing run and cemented to surface (done)
  - o 8-1/2" production hole drilled to TD (pending)
  - o 5-1/2" production casing run and cemented to surface (pending)

Reason to extend TD (see attachment):

The 5-1/2" casing point is currently planned and permitted to be 470' FNL of Section 20. The presence of the 5-1/2" shoe track and Frac Initiation Sleeve means that the deepest possible perforation point will be approximately 100' above the 5-1/2" casing point or approximately 570' FNL of Section 20. Based on Great Western's current frac design, this situation results in approximately 100' of cased and cemented lateral that is located within the 460' setback boundary but that cannot be completed.

In order to more effectively access all of the oil and gas reserves located within the 460' setback boundary Great Western requests approval to:

- Extend the production hole TD from the current location of 470' FNL of Section 20 to a position that is approximately 370' FNL of Section 20 (see attachment).
- The production casing will be cemented in place as normal.
- When the production casing is run the Frac Initiation Sleeve will be positioned so that when the casing shoe is at TD, the Frac Initiation Sleeve is no closer than 470' FNL of Section 20.
  - o This will ensure that all contact with the reservoir occurs inside the 460' set-back boundary.
- A permanent bridge plug will be set above the Frac Initiation Sleeve.
- The first perf cluster and the first frac will be located above the permanent bridge plug providing further guarantee that all production comes from inside the 460 set-back boundary.

As the drawing shows, this proposal will essentially create the same set of circumstances at the TD of the wellbore that already exists at the landing point of the well – essentially there will be a section of cemented and non-productive casing positioned outside the 460' set-back boundary.

**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
Surface String	13	1		2	9	5		8	36	0	1900	790	1900	0
First String	8	1		2	5	1		2	17	0	17635	2227	17635	

**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:

<b>Best Management Practices</b>	
<b>No BMP/COA Type</b>	<b>Description</b>

**Operator Comments:**

Attached is diagram showing TD Extension Labeled as Other.  
 Spacing Unit information not changing.  
 The nearest well in the same formation is Dittmer KE 20-029HC measured to via manual calculation from directional surveys.

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

Signed: \_\_\_\_\_ Print Name: Allison Schieber  
 Title: Regulatory Tech Email: aschieber@gwogco.com Date: 10/20/2016

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

COGCC Approved: GARRISON, PENNY Date: 10/27/2016

**CONDITIONS OF APPROVAL, IF ANY:**

**COA Type****Description**

	1) This Form 4 makes changes to the casing and cementing program (extending the 5-1/2" casing 100 feet) approved on the Form 2 and must be displayed with the Form 2 while drilling. 2) Operator shall ensure that well complies with setback requirements prior to producing the well and acknowledge on the Form 5 and Form 5A how setback requirements were met.
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**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Engineer	Offset wells were evaluated during the review of the Form 2; no additional wells to evaluate.	10/24/2016 1:57:39 PM

Total: 1 comment(s)

**Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
401133432	SUNDRY NOTICE APPROVED-LOC-DRLG-CSG
401133436	DIRECTIONAL DATA
401133440	DEVIATED DRILLING PLAN
401133441	OTHER
401134377	WELL LOCATION PLAT
401137896	FORM 4 SUBMITTED

Total Attach: 6 Files