

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: 401133432			
Date Received: 10/20/2016			

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		
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 40.011917 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	
1103	FNL	2174	FWL
1103	FNL	2174	FWL
Twp <u>1N</u>	Range <u>66W</u>	Meridian <u>6</u>	
Twp <u>1N</u>	Range <u>66W</u>	Meridian <u>6</u>	
460	FSL	2363	FWL
460	FSL	2363	FWL
Twp <u>1N</u>	Range <u>66W</u>		
Twp <u>1N</u>	Range <u>66W</u>		
470	FNL	2357	FWL
370	FNL	2357	FWL
Range <u>66W</u>			
Range <u>66W</u>			

**

**

** 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 DITTMER KE Number 20-029HN 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 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:

Best Management Practices

No BMP/COA Type

Description

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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.

General Comments**User Group****Comment****Comment Date**

Engineer	Offset wells were evaluated during the review of the Form 2; no additional wells to evaluate.	10/24/2016 1:57:39 PM
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Total: 1 comment(s)

Attachment Check List**Att Doc Num****Name**

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