

State of Colorado Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

Document Number:

400926638

Date Received:

12/08/2016

INJECTION WELL PERMIT APPLICATION

Submit a completed Form 33 with or after approval obtained on Form 31 (Underground Injection Formation Permit Application) or you must have a previously approved injection Well Permit.

1. Operator may not commence injection into this well until this form is approved.
2. Each individual injection well must be approved by this form.

Per Rule 325, this form shall be submitted with all required attachments.

A Form 33 – Intent shall be submitted and approved prior to completing an injection zone.

A Form 33 – Subsequent shall be submitted following completion of the well and must be approved prior to injection.

NOTE: Injection for Enhanced Recovery requires the field to be unitized according to the 400 Series Rules. Injection for Disposal into a producing field requires unitization of the formation in the field.

Form 33 Type ☒ Intent ☐ Subsequent

OPERATOR INFORMATION

OGCC Operator Number: 10473	Contact Name and Telephone:
Name of Operator: WASTE MANAGEMENT OF COLORADO INC	Name: Jason Chan
Address: 5500 SOUTH QUEBEC STREET #250	Phone: (303) 486-6063 Fax: (844) 840-2316
City: GREENWOOD VILLAGE State: CO Zip: 80111	Email: jchan2@wm.com

WELL INFORMATION

Well Name and Number: BR-IW 1 API No: 05-123-44124-00
 Field Name and Number: WATTENBERG 90750 County: WELD
 QtrQtr: NESW Sec: 26 Twp: 3N Range: 64W Meridian: 6

UIC FACILITY INFORMATION

UIC Facility ID: 160000 (as assigned on an approved Form 31)
 Facility Name: Buffalo Ridge Energy Services Facil Facility Number:

WELLBORE INFORMATION

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom				

Plug Back Total Depth: 10400 Tubing Depth: 8450 Packer Depth: 8450

List below all Plugs, Bridge Plugs, Stage Cementing or Squeeze Work performed on this wellbore:

Describe below any changes to the wellbore which will be made upon conversion
 (includes but not limited to changes of tubing and packer setting depths, any additional squeeze work for aquifer protection or casing leaks, setting of bridge plugs to isolate non-injection formations).

WELLBORE COMPLETIONS

Formation Name	Gross Completed Interval from Top	Gross Completed Interval from Bottom	Completion Type
ADMIRE	9200	9260	Open Hole
AMAZON	9021	9028	Open Hole
ATOKA	9534	9600	Open Hole

COUNCIL GROVE	9028	9200	Open Hole
DES MOINES	9459	9534	Open Hole
FOUNTAIN	9600	10400	Open Hole
LYONS	8614	8726	Open Hole
MISSOURI	9366	9459	Open Hole
VIRGIL	9260	9366	Open Hole
WOLFCAMP	9010	9021	Open Hole

Operator Comments:

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

Print Name: Denise M. Onyskiw, P.E.

Signed: _____ Title: Engineer Date: 12/8/2016 9:45:14 PM

OGCC Approved:  Title: _____ Date: 3/1/2017 4:10:35 PM

MAX. SURFACE INJECTION PRESSURE: _____ If Disposal Well, MAX. INJECTION VOL. LIMIT: _____

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

	<ol style="list-style-type: none"> 1. Injection is not authorized until approval of Subsequent Forms 31 and 33. 2. PRIOR TO PERFORMING OPERATIONS: Operator is required to contact COGCC to discuss Step Rate Test or Injectivity Test criteria for Maximum Surface Injection Pressure determination. Prior approval of Form 4 is required for step rate and injectivity tests. 3. PRIOR TO PERFORMING OPERATIONS: Approval of Form 4 is required for acid and fracturing jobs. (New as of 4/13/2016). 4. Retrieve water sample(s) from injection zone(s) before stimulating formation. Samples must be analyzed for Total Dissolved Solids at a minimum. 5. For ALL NEW DRILL UNDERGROUND INJECTION WELLS a suite of open-hole Resistivity/Gamma Ray and Density/Neutron logs IS REQUIRED from Surface Casing shoe to TD. A PDF, TIFF, or PDS visual image and a LAS or DILS file version of each log is required. 6. For all new and converted Underground Injection Control wells a Cement Bond Log (CBL) is required on the cased portions of the hole from the bottom of the casing to the top of the next shallower casing string for all casing strings other than the Surface Casing. Only a PDF, TIFF, or PDS visual image is required. 7. Operator must provide all tops of formations encountered from surface to TD on the Form 5 when submitted.
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Attachment Check List

Att Doc Num

Name

400926638	FORM 33-INTENT-SUBMITTED
401163931	WELLBORE DIAGRAM-PROPOSED

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
UIC	Updated Casing/Cementing Tab based on approved Form 2 and Wellbore diagram here.	03/01/2017
UIC	Corrected top of 1st String from 7400 ft to 0 ft. DV will be set at 7400 ft. Also corrected Bottom Cement for Stage Tool from 8600 ft to 7400 ft. Deleted values for Cement Top and Cement Bottom from 1st Liner, Liner is uncemented.	02/27/2017
UIC	Returned to DRAFT for corrections and updates to attachments. Operator needs to fill out all injected formations including the acronym, DJINJ, used for Form 7 reporting. Pennsylvanian is not acceptable according to permitting group.	11/30/2016
UIC	Form 2 received 6/16/2016. No action till Form 2 submitted.	10/31/2016

Total: 4 comment(s)