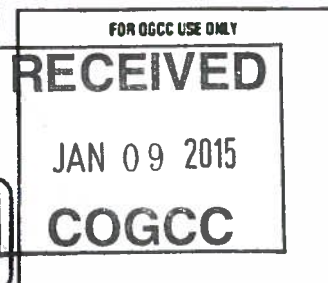




# State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894 2100 Fax: (303) 894-2109



## INJECTION WELL PERMIT APPLICATION

Submit a completed Form 33 with or after approval obtained on Form 31 (Underground Injection 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.

Complete the  
Attachment Checklist

Oper OGCC

Current Wellbore Diagram		
Proposed Wellbore Diagram		

Well Name and Number: 95620 API No: 05-075-08391  
UIC Facility No: 150330 (as assigned on an approved Form 31)  
Project Name: Emerald Unit Operator Name: Western Operating Company  
Field Name and Number: Emerald 20750 County: Logan  
QtrQtr: NWSW Sec: 35 Twp: 9N Range: 54W Meridian: 6th

### CURRENT WELLBORE INFORMATION

Cement Top Determined By:

	SIZE	DEPTH	NO. SACKS	CEMENT TOP	CBL	CIRCULATED	CALCULATED
Surface Casing	8 5/8	126	125	surface	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intermediate Casing (if any)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Production Casing	5 1/2	5260	125	4260	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Plug Back Total Depth: 5260 Tubing Depth: 5169 Packer Depth: 5169

J Sand Formation Gross Perforation Interval: 5208 to 5214

J Sand Formation Gross Perforation Interval: 5233 to 5242

Formation Open Hole Interval (if any): \_\_\_\_\_ to \_\_\_\_\_

List below all Plugs, Bridge Plugs, Stage Cementing or Squeeze Work performed on this wellbore: (if more space needed, continue on reverse side of this form.)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

Describe below any changes to the wellbore which will be made upon conversion. (This 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.)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

Comments:

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

Print Name: D. Scott Stapp

Signed: [Signature] Title: Agent Date: 12/22/2014

OGCC Approved: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

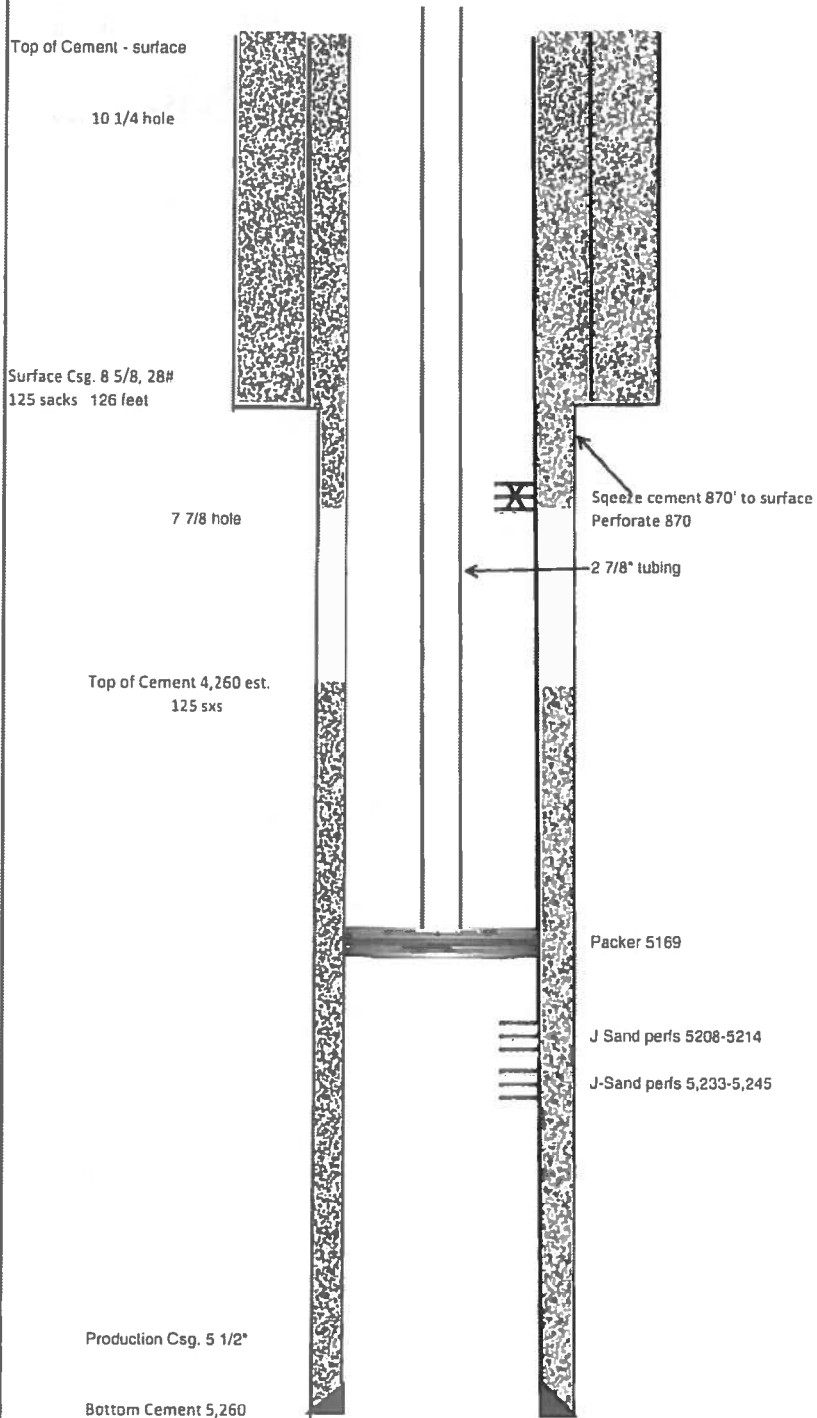
MAX. SURFACE INJECTION PRESSURE: \_\_\_\_\_ If Disposal Well, MAX. INJECTION VOL. LIMIT: \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

# Emerald 2-35 NWSW Sec 35-9N-54W Logan Co., CO

## Existing Wellbore

API # 05-075-08391



## Bob Koehler - DNR

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**From:** Scott Stapp  
**Sent:** Friday, January 09, 2015 8:56 AM  
**To:** Bob Koehler - DNR  
**Subject:** RE: Western Operating: Emerald 2-35 (075-08391) Form 33 and Form 5A Data  
**Attachments:** Scanned Form 33 and Wellbore diagram 1-9-14.pdf

Bob,

I have attached an edited form 33 with the omitted wellbore diagram. I tried to correct the form 5A online and was unable to make any changes, so the answers to your questions are as follows:

I was thinking that the Dakota-J Sand matched the geologic age and interval, but it is the J Sand.

I assumed the status would be injecting since that is what we hope to be doing.

The tubing is 2 7/8.

Thanks,

Scott

### Western Operating Company

D. Scott Stapp  
518 17th Street, Suite 200  
Denver, CO 80202  
(303) 204-0446 cell  
[scott@westernoperating.com](mailto:scott@westernoperating.com)

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**From:** Bob Koehler - DNR [<mailto:bob.koehler@state.co.us>]  
**Sent:** Thursday, January 08, 2015 4:35 PM  
**To:** Scott Stapp  
**Subject:** Western Operating: Emerald 2-35 (075-08391) Form 33 and Form 5A Data

Scott,

The Form 33 had a lot of missing information. See the red boxes I added to the form.

Operators should be filling in this information, even if it is based on estimates. Prior to approval the estimates are corrected to as built values. The tough ones for you might be...

1. UIC Facility = 150330
2. Project Name = Emerald Unit

Just send me an email with the rest of the information.

Also send a CURRENT WELLBORE DIAGRAM. This should reflect the current injection configuration you tested with the MIT.

The Form 5A only just came on 12/22. There are a couple of questions here.

1. Why does the formation say Dakota-JSND? That confuses us, the well is permitted for the J-Sand only and there is no Dakota picked in the well. I assume you probably thinking in geological terms, Dakota Group and J-Sandstone. In your email CONFIRM you meant just the J-Sandstone.
2. Status should be Shut In. Sorry if I told you "Injecting" at some point. When officially notify COGCC that the well has started injection on a Sundry Notice then I switch it to Injecting.
3. What is the size of the tubing?

When I get the email I should be able to process the 5A and UIC application in a day or so.

Sincerely,

Robert P. (Bob) Koehler, PhD  
Underground Injection Control Lead, Geology Advisor



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