

State of Colorado
Oil and Gas Conservation Commission1120 Lincoln Street, Suite 801, Denver, Colorado 80203
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Document Number:

401096530

Date Received:

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: 10580	Contact Name and Telephone:
Name of Operator: EXPEDITION WATER SOLUTIONS COLORADO LLC	Name: Jeremiah Demuth
Address: 1023 39TH AVENUE SUITE E	Phone: (303) 290-9414 Fax: ()
City: GREELEY State: CO Zip: 80634	Email: jdemuth@petrotek.com

WELL INFORMATION

Well Name and Number: EWS 3A API No: 05- - -00

Field Name and Number: WATTENBERG 90750 County: WELD

QtrQtr: SWNE Sec: 23 Twp: 4N Range: 66W Meridian: 6

UIC FACILITY INFORMATION

UIC Facility ID: (as assigned on an approved Form 31)

Facility Name: EWS Facility Number: 3A

WELLBORE INFORMATION

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	9+5/8	36	0	1000	477	1000	0	VISU
1ST	8+3/4	7	26	6829	11024	573	11024	6829	CBL
1ST LINER	6+1/8	4+1/2	11.6	10975	12786				
	8+3/4	7	Stage Tool	0	6829	911	6829	0	CBL

Plug Back Total Depth: 12786 Tubing Depth: 10990 Packer Depth: 10950

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

There will be a stage tool in the 1st string at 6,829 feet MD. Cement will be placed from 11,024 feet MD to 6,829 feet MD, and 6,289 feet MD to surface.

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	11862	11888	Open Hole
AMAZON	11676	11742	Open Hole
COUNCIL GROVE	11742	11862	Open Hole

DENVER BASIN COMBINED DISPOSAL ZONE	11024	12786	Open Hole
FOUNTAIN	12451	12786	Open Hole
LOWER SATANKA	11226	11541	Open Hole
LYONS	11021	11226	Open Hole
MISSOURI	12299	12451	Open Hole
VIRGIL	11888	12299	Open Hole
WOLFCAMP	11541	11676	Open Hole

Operator Comments:

The estimated bottom of the Fountain Formation in this well is 10,647 feet (true vertical depth). The estimated true vertical depth of the EWS 3A well is 10,226 feet. The well will penetrate an estimated 238 feet of Fountain while remaining 421 feet from the base of the Fountain Formation and 445 feet from the top of basement based on the EWS 3 logs.

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

Print Name: Jeremiah Demuth

Signed: _____ Title: Engineering Technician Date: _____

OGCC Approved: _____ Title: _____ Date: 8/19/2016 2:01:40 PM

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

CONDITIONS OF APPROVAL, IF ANY:

COA Type **Description**

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Attachment Check List

Att Doc Num **Name**

401115362	WELLBORE DIAGRAM-PROPOSED
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Total Attach: 1 Files

General Comments

User Group **Comment** **Comment Date**

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Total: 0 comment(s)