

State of Colorado Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

Document Number:

401454118

Date Received:

UNDERGROUND INJECTION FORMATION PERMIT APPLICATION

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

A Form 31 – Intent shall be submitted and approved prior to completing an injection zone.

A Form 31 – Subsequent shall be submitted following collection of water samples and injectivity test (if performed) and must be approved prior to injection in any new injection facility.

NOTE: Per Rule 324B, an aquifer exemption is required for any injection formation with water quality less than 10,000 mg/L total dissolved solids (TDS). Contact the Commission for further requirements if the TDS as determined by water analysis for the injection zone is less than 10,000 mg/L.

Form 31 Type

Intent

Subsequent

UIC Facility ID 0

UIC Facility ID Required for Subsequent Form 31

UIC FACILITY INFORMATION

Facility Name and Number: Ray Ranch 0780

16

County: JACKSON

Facility Location: SESW / 16 / 7N / 80W / 6

Field Name and Number:

WILDCAT

99999

Facility Type: Enhanced Recovery

Disposal

Simultaneous Disposal

Single or Multiple Well Facility? Single

Multiple

Proposed Injection Program (Required):

Produced water from the Niobrara formation from nearby SandRidge wells along with flowback waater which could contain drilling mud (water based and oil based), propant, acids and any stray hydrocarbons or other items produced from drilling, completing and producing an oil well may be disposed of in the proposed well. These fluids will mostly be transported to this well via pipeline but could also be trucked to the disposal facility if the pipeline is down or a new well is drilled and a connecting pipeline has yet to be installed.

OPERATOR INFORMATION

OGCC Operator Number: 10598

Contact Name and Telephone:

Name of Operator: SANDRIDGE EXPLORATION & PRODUCTION LLC

Name: Spence Laird

Address: 123 ROBERT S KERR AVE

Phone: (405) 420-8415

Fax: ()

City: OKLAHOMA CITY

State: OK

Zip: 73102

Email: slaird@sandridgeenergy.com

INJECTED FLUID TYPE

All injected fluids must be Exempt E&P waste per RCRA Subpart C.

(Check all that apply.)

Produced Water

Natural Gas

CO2

Drilling Fluids

Exempt Gas Plant Waste

Used Workover Fluids

Flowback Fluids

Other Fluids (describe):

Commercial Disposal Facility

Yes

No

Commercial UIC Bond Surety ID:

Commercial Facility Description: Describe the physical region of the facility, the details of the operations, and the type of fluids to be injected.

PROPOSED INJECTION FORMATIONS

FORMATION (Name): ENTRADA Porosity: %
Formation TDS: mg/L Frac Gradient: psi/ft Permeability: mD
Proposed Stimulation Program: Acid Frac Treatment None

ANTICIPATED FACILITY OPERATIONS CONDITIONS

Under normal operating conditions, estimated TOTAL fluid injection rates and pressures for this facility:

FOR WATER: Daily Injection Rate Range From 0 to 8000 bbls/day
Surface Injection Pressure Range From 1500 to 4000 psi
FOR GAS: Daily Injection Rate Range From to mcf/day
Surface Injection Pressure Range From to psi

Estimated Initial Injection Date: 12/15/2017

AREA OF REVIEW OIL and GAS WELL EVALUATION SUMMARY

Review all existing wells within 1/2 mile for injection formation isolation.

Area Review Date: 11/9/2017

Total number of Oil & Gas Wells within Area of Review: 5

ABANDONED WELLS (All wells that have been plugged: PA and DA status))

Total within Area of Review 0
Number To Be Re-Plugged 0

ACTIVE WELLS (All wells that have not been plugged: AC, DG, DM, IJ, PR, SU, SI, TA, WO, XX, UN status)

Total within Area of Review 5
Number Requiring Casing Repair 0
Number To Be Plugged 0

Operator's Area of Review Contact Email: Spence Laird slaird@sandridgeenergy.com

No Wells within 2,640'

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

Print Name: Angela Callaway Signed:

Title: Permit Agent Date:

COGCC Approved: Date:

Form 31 - Intent Expiration Date:

Per Rule 325.o, a 90 day extension of the Expiration Date may be requested via a Sundry Notice, Form 4 submitted prior to Form 31- Intent expiration

Order Number: UIC FACILITY ID: 0

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>
-----------------	--------------------

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401457422	OFFSET WELL EVALUATION
401457559	OIL & GAS WELL PLAT
401457563	OIL & GAS WELL PLAT
401457565	OIL & GAS WELL PLAT
401457577	SURFACE FACILITY DIAGRAM
401457579	MAP OF MINERAL OWNERS ¼-MILE
401457624	MAP OF SURFACE OWNERS ¼-MILE
401457625	AQUIFER EXEMPTION-COGCC
401457628	LIST OF MINERAL OWNERS ¼-MILE
401457629	LIST OF SURFACE OWNERS ¼-MILE
401457632	MAP OF WATER WELLS ¼-MILE
401457636	SURFACE USE AGREEMENT FOR SALT WATER DISPOSAL

Total Attach: 12 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)