

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit electronically  
Via E-permitting

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

## Seismicity Response Protocol Information Form

This form must be completed as part of OCD's Seismicity Response Protocol and updated after any qualifying event thereafter.

**Applicability:** This form must be completed for each well classified as an Underground Injection Control (UIC) Class II disposal wells or Class II enhanced recovery injection well with active injection authority (wells). "Active injection authority" means a well that is authorized to inject pursuant to an administrative permit or hearing order. This includes wells that have an approved Application for Permit to Drill and have an approved injection permit but have not yet been drilled or commenced injection.

### Well Information

**I. Operator:** Devon Energy Production Co., L.P. **OGRID:** 6137 **OCD notification date** 01/07/2022

**Well Name** SAND 18 FEDERAL #001 **API#** 30-025-25017

**II. Type of Notification:** ☒ Original ☐ Amendment ☐ Other

If Other, please describe: \_\_\_\_\_

**III. Seismic event information:** **Magnitude** 2.9 **Location** 32.452 lat, -103.462 long. , **Date of occurrence** 12/14/2021  
**Source of information (i.e. USGS, NMTSO, TexNet, other)** USGS **Depth of occurrence** 3km

**IV. Well(s):** Provide the following information for each well permitted within a 10-mile proximity of the epicenter.

Injection Order	Distance from epicenter	Perforated and/or open-hole interval (Vertical Depth)	Formation/s completed
SWD-2218		16,700' - 18,000'	Devonian/Silurian and Fusselman formations

**V. ☒** An updated well bore diagram is required to be attached, which identifies the current injection intervals (perforations and/or open hole), formation tops, measured depth, vertical depths and Sub-Sea True vertical depths.

**VI. Well Information Prior to Injection Volume Reduction:** Provide the following information for each well identified in Section IV. Daily rates and pressures are based on the active injection days during the prior 6-month period.

Avg daily injection rate (prior to reduction)	Avg injection daily pressure (prior to reduction)	Well Type (Commercial, lease only, single operator)
12,914	2,763	Single Operator

**VII. Well Information After Injection Volume Reduction:** Provide the following information for each well identified in Section IV.

Avg daily injection rate limit (post reduction)	Avg injection daily pressure limit (post reduction)	Reduction %	Reduction start date	Reduction achieved date
NA				

### Acknowledgments

Operator acknowledges that it must take the following actions as part of its seismic response protocol:

- ☒ Operator shall report the daily injection volumes and pressures for each well on a weekly basis on the form prescribed by the OCD. The report is due on the Wednesday the week following the weekly monitoring interval.
- ☒ Operator shall start or continue to digitally measure injection volumes and pressures for each well at a minimum of an hourly basis, and shall archive the data and make it available to OCD upon receipt of a written request.
- ☒ Operator shall monitor seismicity events with magnitudes equal to or greater than M2.5 within a radius of 10 miles around each well using USGS / NMTSO data, and shall archive the data and make it available to OCD upon receipt of a written request.
- ☒ Operator shall notify OCD and provide updated pertinent well information within 24 hours of an event greater than M 2.5 within a radius of 10 miles around each well using this OCD form.
- ☒ After each event greater than M 2.5 within a radius of 10 miles around each well, Operator shall inspect well head and well equipment of each well to ensure proper working order. As part of this inspection, Operator should evaluate whether a Bradenhead test or MIT is warranted to ensure wellbore integrity.

**I certify that, after reasonable inquiry and based on the available information at the time of submittal, this Seismic Information Form is true and correct to the best of my knowledge, and I acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.**

Signature: 

Printed Name: Rebecca Deal

Title: Regulatory Specialist

E-mail Address: rebecca.deal@dvn.com

Date: 1/17/2022

Phone:

**DEVON ENERGY PRODUCTION COMPANY LP**

Well Name: Sand 18 Federal SWD #1

Field:	Todd
--------	------

Location: 1180' FNL & 660' FEL; Sec 4, T23S, R32E

County: Lea

State: NM
-----------

Elevation: 3619' KB; 3602' GL

Spud Date: 11/17/15
---------------------

Compl Date: 01/19/16
----------------------

API#: 30-025-25017

---

Prepared by: J. Inscore

Date: 8/10/20

Rev:

**XTO CONVERTED TO SWD**  
Initial Disposal - No later than 6/9/21

17-1/2" Hole

**13-3/8", 68#, K55 @ 625'**

Cmt'd w/ 700 sxs. Cmt to surf.

**ETOC on 5-1/2" @ 1,100'**

12-1/4" Hole

**10-3/4", 40.5#, N80 @ 4,650'**

Cmt'd w/ 2,200 sxs. Cmt to surf.

3-1/2", 9.3# IPC tubing (1/19/16)

9-1/2" Hole

**7-5/8", 33.7#, S95 @ 12,720'**

Cmt'd w/ 3,050 sxs. Cmt to surf.

**5-1/2" Arrowset Nickel-coated Packer @ 16,596' (1/19/16)**

6-1/2" Hole

**5-1/2", 20#, P110 @ 16,700'**

Cmt'd w/ 537 sxs.

**DEVONIAN - SWD INJECTION ZONE**  
**Open Hole 16,700' - 18,000'**

4-3/4" Open hole

TD @ 18,000'

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

DEFINITIONS  
  
Action 73652

DEFINITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 73652
	Action Type: [UF-SA] Seismicity Response Protocol Information (UF-SA-SRPI)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: <ul style="list-style-type: none"><li>this application's operator, hereinafter "this operator".</li></ul>
This form must be completed as part of OCD's Seismicity Response Protocol and updated after any qualifying event thereafter.
<b>Applicability:</b> This form must be completed for each well classified as an Underground Injection Control (UIC) Class II disposal well or Class II enhanced recovery injection well with active injection authority (wells). "Active injection authority" means a well that is authorized to inject pursuant to an administrative permit or hearing order. This includes wells that have an approved Application for Permit to Drill and have an approved injection permit but have not yet been drilled or commenced injection.

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 73652

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 73652
	Action Type: [UF-SA] Seismicity Response Protocol Information (UF-SA-SRPI)

**QUESTIONS**

<b>Prerequisites</b>	
Well	[30-025-25017] SAND 18 FEDERAL #001

**Seismic Event Information**

The source and reference ID is required, if you would like to submit information of a new seismic event.

Source of information (i.e., USGS, NMTSO, TexNet, other)	USGS
Reference ID from source of information	us 6000gc94
Magnitude	2.9
Latitude	32.45200
Longitude	-103.46200
Date of occurrence	12/14/2021
Depth of occurrence (kilometers)	3.00

**Injection Order**

Please indicate the latest (current) injection order permitting injection for this well.

Admin Order (SWD-#)	SWD-2218-0 [pLEL1921155208]
Hearing Order (R-#)	Not answered.

**Well Information**

The following information is required for each well permitted within a 10-mile proximity of the epicenter.

Distance from epicenter (miles)	10
Top perforated and/or open-hole interval (vertical depth in feet)	16,700
Bottom perforated and/or open-hole interval (vertical depth in feet)	18,000
Formation(s) completed	Devonian/Silurian and Fusselman formations

**Well Information Prior to Injection Volume Reduction**

Daily rates and pressures are based on the active injection days during the prior 6-month period.

Average daily injection rate (BBLS per day), prior to reduction	12,914
Average injection daily pressure (PSI), prior to reduction	2,763
Well Type (i.e., Commercial, Lease Only, Single Operator)	Single Operator

**Well Information After Injection Volume Reduction**

The following information is required for each well permitted within a 10-mile proximity of the epicenter.

Required injection rate reduction percentage (0%, 25%, 50%, Shut-in)	0%
Average daily injection rate (BBLS per day) limit, post reduction	0
Average injection daily pressure (PSI) limit, post reduction	0
Reduction start date	01/17/2022
Reduction achieved date	01/17/2022

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 73652

**ACKNOWLEDGMENTS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	73652
	Action Type:	[UF-SA] Seismicity Response Protocol Information (UF-SA-SRPI)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	This operator acknowledges that it must take the appropriate following action(s) as part of its seismic response protocol:
<input checked="" type="checkbox"/>	This operator shall report the daily injection volumes and pressures for each well on a weekly basis on the form prescribed by the OCD. The report is due on the Wednesday the week following the weekly monitoring interval.
<input checked="" type="checkbox"/>	This operator shall start or continue to digitally measure injection volumes and pressures for each well at a minimum of an hourly basis, and shall archive the data and make it available to OCD upon receipt of a written request.
<input checked="" type="checkbox"/>	This operator shall monitor seismicity events with magnitudes equal to or greater than M2.5 within a radius of 10 miles around each well using USGS / NMTSO data, and shall archive the data and make it available to OCD upon receipt of a written request.
<input checked="" type="checkbox"/>	This operator shall notify OCD and provide updated pertinent well information within 24 hours of an event greater than M 2.5 within a radius of 10 miles around each well using this OCD form.
<input checked="" type="checkbox"/>	After each event greater than M 2.5 within a radius of 10 miles around each well, this operator shall inspect well head and well equipment of each well to ensure proper working order. As part of this inspection, Operator should evaluate whether a Bradenhead test or MIT is warranted to ensure wellbore integrity.
<input checked="" type="checkbox"/>	I certify that, after reasonable inquiry and based on the available information at the time of submittal, this Seismic Information Form is true and correct to the best of my knowledge, and I acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 73652

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 73652
	Action Type: [UF-SA] Seismicity Response Protocol Information (UF-SA-SRPI)

CONDITIONS

Created By	Condition	Condition Date
aschaefer	Accepted for record	1/6/2023