

| | | | |
|--------------------------------|-----------|---------------------|------------------------------------|
| RECEIVED: <u>10/25/2018</u> | REVIEWER: | TYPE: <u>SWD</u> | APP NO: <u>PMAM 18248 39234</u> |
|--------------------------------|-----------|---------------------|------------------------------------|

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

Notice Certifications
Rec'd 11/5/2018

NEW MEXICO OIL CONSERVATION DIVISION

- Geological & Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: OWL SWD Operating, LLCOGRID Number: 308339Well Name: Czervik SWD #1

API: _____

Pool: SWDPool Code: 97869

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

OCT 25 2018 08:58

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX☐ PMX☒ SWD☐ IPI☐ EOR☐ PPR

Other:

2) NOTIFICATION REQUIRED TO: Check those which apply.

A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☐ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required

FOR OCD ONLY

11/5/2018

☐

Notice Complete

☐Application
Content
Complete

3) CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Ramona Hovey

Print or Type Name

October 17, 2018

Date

(512) 600-1777

Phone Number

ramona@lonquist.com

e-mail Address

Signature

LONQUIST & CO. LLC

AUSTIN
HOUSTONPETROLEUM
ENGINEERSENERGY
ADVISORSWICHITA
CALGARY

www.lonquist.com

October 15, 2018

New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division District IV
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
(505) 476-3440

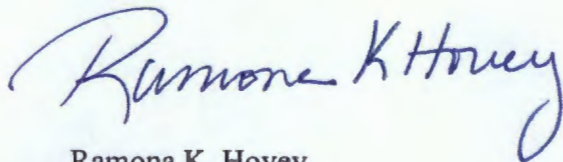
RE: CZERVIK SWD NO. 1 AUTHORIZATION TO INJECT

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for OWL SWD Operating, LLC's Czervik SWD No. 1. In addition, Forms BLM 3160-3 and C-102 have been included with this package. Notices have been sent to offset leaseholders and the surface owner. Proof of notice will be sent to the OCD upon receipt.

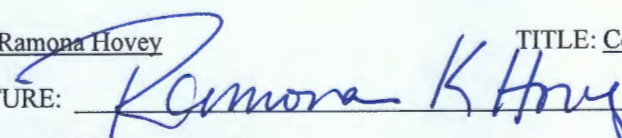
Any questions should be directed towards OWL SWD Operating, LLC's agent Lonquist & Co., LLC.

Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC
(512) 600-1777
ramona@lonquist.com

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ ☒ Yes _____ No
- II. OPERATOR: OWL SWD Operating, LLC
ADDRESS: 8214 Westchester Drive, Suite 850, Dallas, TX 75255
CONTACT PARTY: Preston Carr PHONE: (855) 695-7937
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes _____ ☒ No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Ramona Hovey TITLE: Consulting Engineer – Agent for OWL SWD Operating, LLC
SIGNATURE:  DATE: 10/11/2018
E-MAIL ADDRESS: ramona@lonquist.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: OWL SWD Operating, LLC (OGRID 308339)WELL NAME & NUMBER: Czervik SWD No. 1WELL LOCATION: 2,301' FNL & 2,426' FWL
FOOTAGE LOCATIONF
UNIT LETTER29
SECTION23 S
TOWNSHIP33 E
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 26"Casing Size: 20"Cemented with: 3,600 sks*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationIntermediate Casing 1Hole Size: 17-1/2"Casing Size: 13-5/8"Cemented with: 3,640 sks*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationIntermediate Casing 2Hole Size: 12-1/4"Casing Size: 9-5/8"Cemented with: 3,145 sks*or* _____ ft³Top of Cement: surfaceMethod Determined: circulation

Production Liner

Hole Size: 8-1/2"

Casing Size: 7-5/8"

Cemented with: 315 sks

or _____ ft³

Top of Cement: 13,875'

Method Determined: Calculation

Total Depth: 18,700'

Injection Interval

17,157 feet to 18,700 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.500", 23.0 lb/ft, P-110 BTC and UFJ (or equivalent), from 0' – 17,100'

Lining Material: Duoline

Type of Packer: 7-5/8" x 5.5" D&L Oil Tools Permapack Packer – Single Bore

Packer Setting Depth: 17,100'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? X Yes No

If no, for what purpose was the well originally drilled?

2. Name of the Injection Formation: Silurian-Devonian

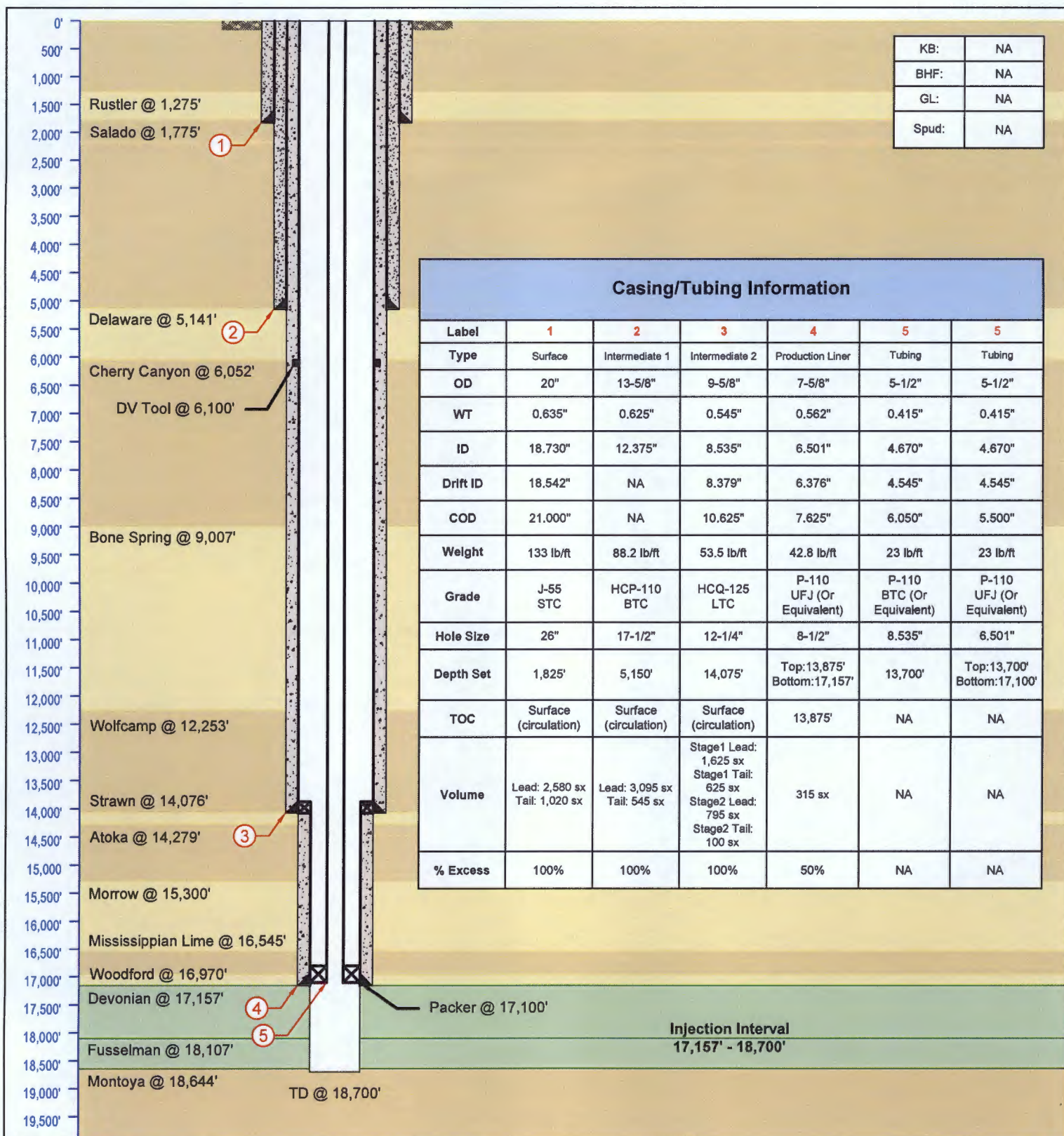
3. Name of Field or Pool (if applicable): _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

No, new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

| Formation | Depth |
|---------------|---------|
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Devonian | 17,157' |



LONQUIST & CO. LLC

**PETROLEUM
ENGINEERS**

**ENERGY
ADVISORS**

HOUSTON | CALGARY
AUSTIN | WICHITA | DENVER

Texas License F-9147

12912 Hill Country Blvd. Ste F-200
Austin, Texas 78738
Tel: 512.732.9812
Fax: 512.732.9816

Oilfield Water Logistics

Country: USA

Location:

API No: NA

RRC District No:

Drawn: WHG

Rev No: 1

Czervik SWD No. 1

State/Province: New Mexico

Site:

Field:

Project No: 1792

Reviewed: RH

Notes:

County/Parish: Eddy

Survey:

Well Type/Status: SWD / New Drill

Date: 10/9/2018

Approved: SLP

OWL SWD Operating, LLC.

Czervik SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

| Well information | |
|------------------|-------------------------|
| Lease Name | Czervik SWD |
| Well No. | 1 |
| Location | Unit F S-29 T-23S R-33E |
| Footage Location | 2,301' FNL & 2,426' FWL |

2.

a. Wellbore Description

| Casing Information | | | | |
|--------------------|-----------|-----------------------------|-------------------------|---------------------------|
| Type | Surface | Intermediate 1 | Intermediate 2 | Production Liner |
| OD | 20" | 13-5/8" | 9-5/8" | 7-5/8" |
| WT | 0.635" | 0.625" | 0.545" | 0.562" |
| ID | 18.730" | 12.375" | 8.535" | 6.501" |
| Drift ID | 18.542" | | 8.379" | 6.376" |
| COD | 21.000" | | 10.625" | 7.625" |
| Weight | 133 lb/ft | 88.2 lb/ft | 53.5 lb/ft | 42.8 lb/ft |
| Grade | J-55 STC | HCP-110 STC (Or Equivalent) | HCQ-125 (Or Equivalent) | P-110 UFJ (Or Equivalent) |
| Hole Size | 26" | 17-1/2" | 12-1/4" | 8-1/2" |
| Depth Set | 1,825' | 5,150' | 14,075' | 13,875' – 17,157' |

b. Cementing Program

| Cement Information | | | | |
|---------------------------|----------------------|----------------------|---------------------------------------|------------------|
| Casing String | Surface | Intermediate 1 | Production | Production Liner |
| Lead Cement | HALCEM | HALCEM | Stage 1: NEOCEM Stage 2: NEOCEM | |
| Lead Cement Volume | 2,580 sks | 3,095 sks | Stage 1: 1625 sks Stage 2: 795 sks | |
| Tail Cement | HALCEM | HALCEM | Stage 1: NEOCEM Stage 2: HALCEM | VERSACEM |
| Tail Cement Volume | 1,020 sks | 545 sks | Stage 1: 625 sks Stage 2: 100 sks | 315 sks |
| Cement Excess | 100% | 100% | 100% | 50% |
| TOC | Surface | Surface | Surface | 13,875' |
| Method | Circulate to Surface | Circulate to Surface | Circulate to Surface | Calculation |

3. Tubing Description

| Tubing | | |
|------------------|---------------------------|---------------------------|
| OD | 5-1/2" | 5-1/2" |
| WT | 0.415" | 0.415" |
| ID | 4.670" | 4.670" |
| Drift ID | 4.545" | 4.545" |
| COD | 6.050" | 5.500" |
| Weight | 23 lb/ft | 23 lb/ft |
| Grade | P-110 BTC (Or Equivalent) | P-110 UFJ (Or Equivalent) |
| Depth Set | 13,700' | 13,700'-17,100' |

Tubing will be lined with Duoline.

4. Packer Description

D&L Oil Tools 7-5/8" x 5-1/2" Permapack Packer – Single Bore

B. Completion Information

1. Injection Formation: Silurian - Devonian
2. Gross Injection Interval: 17,157' – 18,700'

Completion Type: Open Hole

3. Drilled for injection.
4. See the attached wellbore schematic.
5. Oil and Gas Bearing Zones within area of well:

| Formation | Depth |
|---------------|---------|
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Devonian | 17,157' |

VI. Area of Review

No wells within the one-mile AOR penetrated the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 20,000 BPD
Maximum Volume: 30,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

Average Injection Pressure: 2,573 PSI (surface pressure)
Maximum Injection Pressure: 3,431 PSI (surface pressure)

4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Bone Springs and Delaware formations.

5. The Devonian Formation is productive of oil and gas in this area.

VIII. Geological Data

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation in Southeast New Mexico are two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a successful Salt Water Disposal horizon.

A. Injection Zone: Devonian-Silurian Formation

| Formation | Depth |
|--------------------|---------|
| Rustler | 1,275' |
| Salado | 1,775' |
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Mississippian Lime | 16,545' |
| Woodford | 16,970' |
| Devonian | 17,157' |
| Fusselman | 18,107' |
| Montoya | 18,644' |

B. Underground Sources of Drinking Water

Water wells in the one-mile surrounding area for the proposed Czervik SWD No.1 well are at depths ranging from 550 ft to 650 ft. The Rustler may also be another USDW and will be protected through the top of the Salado Formation at 1,775' by setting surface casing at 1,825'.

IX. Proposed Stimulation Program

No proposed stimulation program.

X. Logging and Test Data on the Well

There are no existing logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

There are two (2) fresh water wells within one mile of the well location, per the New Mexico Office of the State Engineer. A list of all the water wells, a map of these wells and their associated Water Right Summaries are attached. Fresh water samples will be obtained from two of the wells and analysis of these samples will be submitted as soon as possible.

XII. Affirmative Statement of Examination of Geologic and Engineering Data

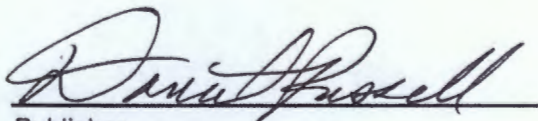
Based on the available engineering and geologic data we find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

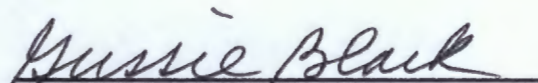
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
October 14, 2018
and ending with the issue dated
October 14, 2018.



Publisher

Sworn and subscribed to before me this
14th day of October 2018.



Business Manager

My commission expires

January 29, 2019

(Seal)



OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico

My Commission Expires 1-29-19

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGALS

LEGAL NOTICE OCTOBER 14, 2018

OWL SWD Operating, LLC, 8214 Westchester Dr., Suite 850, Dallas, Texas 75255, is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well Czervik SWD No. 1. The proposed well will be located 2,301' FNL & 2,426' FWL in Section 29, Township 23S, Range 33E in Lea County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Devonian-Silurian Formation (determined by offset log analysis) through an open hole completion between a maximum applied for top of 17,157 feet to a maximum depth of 18,700 feet. The maximum surface injection pressure will not exceed 3,431 psi with a maximum rate of 30,000 BWPD. Interested parties opposing the action must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days. Additional information can be obtained from the applicant's agent, Lonquist & Co., LLC, at (512) 600-1774, #33327

67112661

00219437

LONQUIST & CO., LLC
12912 HILL COUNTRY BLVD, STE F200
AUSTIN, TX 78738

WATER WELL SUMMARIES



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: C 02277 **Subbasin:** CUB **Cross Reference:** -
Primary Purpose: COM COMMERCIAL
Primary Status: PMT PERMIT
Total Acres: 0 **Subfile:** -
Total Diversion: 64.5 **Cause/Case:** -
Owner: BRININSTOOL XL RANCH LLC
Contact: CHRISTINE BRININSTOOL, MORTGAGEE
Owner: HUGHES PROPERTIES LLC
Contact: TREY HUGHES

Documents on File

| Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ | Acres | Diversion | Consumptive |
|------------------------|-----------------------|----------------------------|--------|-----|-------------------|-------|-------|-----------|-------------|
| | | | 1 | 2 | | To | | | |
| 614438 | COWNF | 2017-09-25 | CHG | PRC | C 02277 | T | 0 | 0 | |
| 439865 | COWNF | 2009-07-29 | CHG | PRC | C 02277 | T | 0 | 0 | |
| 234017 | COWNF | 2002-06-25 | CHG | PRC | C 02277 | T | 0 | 0 | |
| 169243 | ADM | 1999-10-29 | PMT | MTR | C 02277 | T | 0 | 48.4 | |
| 198402 | DCL | 1986-04-07 | DCL | PRC | C 02277 | T | 0 | 48.4 | |

Current Points of Diversion

(NAD83 UTM in meters)

| POD Number | Source | Q | Q | Q | Q | Sec | Tws | Rng | X | Y | Other Location Desc |
|-------------------------|---------|---|---|---|----|-----|-----|-----|--------|----------|---------------------|
| C 02277 | Shallow | 2 | 3 | 4 | 20 | 23S | 33E | | 632663 | 3572970* | |

An () after northing value indicates UTM location was derived from PLSS - see Help

Place of Use

| Q | Q | Q | Q | Q | Sec | Tws | Rng | Acres | Diversion | CU | Use | Priority | Status | Other Location Desc |
|-----|----|----|---|---|-----|-----|-----|-------|-----------|----|-----|----------|--------|------------------------|
| 256 | 64 | 16 | 4 | | | | | 0 | 48.4 | | COM | | DCL | NO PLACE OF USE GIVEN. |

Source

| Acres | Diversion | CU | Use | Priority | Source Description |
|-------|-----------|----|-----|----------|--------------------|
| 0 | 48.4 | | COM | | GW |



New Mexico Office of the State Engineer

Water Right Summary



[get image list](#)


WR File Number: C 02279 Subbasin: CUB Cross Reference: -
Primary Purpose: COM COMMERCIAL
Primary Status: PMT PERMIT
Total Acres: 0 Subfile: -
Total Diversion: 64.5 Cause/Case: -
Owner: BRININSTOOL XL RANCH LLC
Contact: CHRISTINE BRININSTOOL, MORTGAGEE
Owner: HUGHES PROPERTIES LLC
Contact: TREY HUGHES

Documents on File

| Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ | Acres | Diversion | Consumptive |
|---|--------|----------|------------|-----|-------------------|---------|-------|-----------|-------------|
| | | | 1 | 2 | | To | | | |
|  get images | 614450 | COWNF | 2017-09-25 | CHG | PRC | C 02279 | T | 0 | 0 |
| | 439869 | COWNF | 2009-07-29 | CHG | PRC | C 02279 | T | 0 | 0 |
| | 234015 | COWNF | 2002-06-25 | CHG | PRC | C 02279 | T | 0 | 0 |
| | 169245 | ADM | 1999-10-29 | PMT | MTR | C 02279 | T | 0 | 64.5 |
| | 198406 | DCL | 1986-04-07 | DCL | PRC | C 02279 | T | 0 | 64.5 |

Current Points of Diversion

(NAD83 UTM in meters)

| POD Number | Source | Q | Q | Q | Q | Sec | Tws | Rng | X | Y | Other Location Desc |
|-------------------------|---------|---|---|---|----|-----|-----|-----|--------|----------|---|
| C 02279 | Shallow | 3 | 4 | 3 | 28 | 23S | 33E | | 633691 | 3571173* |  |

An () after northing value indicates UTM location was derived from PLSS - see Help

Place of Use

| Q | Q | Q | Q | Sec | Tws | Rng | Acres | Diversion | CU | Use | Priority | Status | Other Location Desc |
|-----|----|----|---|-----|-----|-----|-------|-----------|----|-----|----------|--------|------------------------|
| 256 | 64 | 16 | 4 | | | | 0 | 64.5 | | COM | | DCL | NO PLACE OF USE GIVEN. |

Source

| Acres | Diversion | CU | Use | Priority | Source Description |
|-------|-----------|----|-----|----------|--------------------|
| 0 | 64.5 | | COM | | GW |

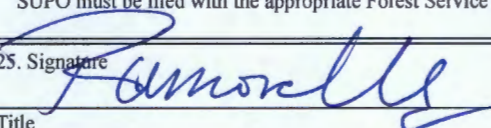
BLM 3160-3 APPLICATION FOR PERMIT TO DRILL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

| | | |
|--|--|---|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. |
| 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other SWD | | 6. If Indian, Allottee or Tribe Name |
| 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 7. If Unit or CA Agreement, Name and No. |
| 2. Name of Operator OWL SWD Operating, LLC | | 8. Lease Name and Well No. Czervik SWD No. 1 |
| 3a. Address 8214 Westchester Drive, Suite 850, Dallas, TX 75255 | | 9. API Well No. |
| 3b. Phone No. (include area code) (855) 695-7937 | | 10. Field and Pool, or Exploratory Silurian-Devonian |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 2,301' FNL and 2,426' FWL At proposed prod. zone Vertical Well | | 11. Sec., T. R. M. or Blk. and Survey or Area Sec 29, T-23S, R-33E |
| 14. Distance in miles and direction from nearest town or post office* 28 miles Northwest of Jal, NM | | 12. County or Parish LEA |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | | 13. State NM |
| 16. No of acres in lease | | 17. Spacing Unit dedicated to this well N/A |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | | 20. BLM/BIA Bond No. in file |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3,683' GL | | 22. Approximate date work will start* ASAP after approval |
| | | 23. Estimated duration |
| 24. Attachments | | |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

| | | |
|--|---|------------------|
| 25. Signature  | Name (Printed/Typed) Ramona K. Hovey | Date 10/17/10 |
| Title Consulting Agent for OWL SWD Operating, LLC | | |
| Approved by (Signature) | Name (Printed/Typed) | Date |
| Title Consulting Agent for OWL SWD Operating, LLC | | |
| Office | | |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

C-102 WELL LOCATION PLAT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazon Road, Artesia, NM 87410
District IV
1220 S. St Francis Dr., NM 87505
Phone: (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|----------------------------------|---|--|
| ¹ API Number | ² Pool Code 97869 | ³ Pool Name SWD; Silurian-Devonian |
| ⁴ Property Code | ⁵ Property Name CZERVIK SWD | ⁶ Well Number #1 |
| ⁷ OGRID No. 308339 | ⁸ Operator Name OWL SWD OPERATING | ⁹ Elevation 3682.90' |

¹⁰ Surface Location

| | | | | | | | | | |
|--------------------|---------------|------------------|---------------|---------|-----------------------|---------------------------|-----------------------|------------------------|---------------|
| UL or lot no. F | Section 29 | Township 23 S | Range 33 E | Lot Idn | Feet from the 2301 | North/South line NORTH | Feet from the 2426 | East/West line WEST | County LEA |
|--------------------|---------------|------------------|---------------|---------|-----------------------|---------------------------|-----------------------|------------------------|---------------|

¹¹ Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|

| | | | |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

| | | | |
|--|--|--|--|
| ¹⁶ | | ¹⁷ OPERATOR CERTIFICATION | |
| <p>GEODETIC DATA NAD 83 GRID - NM EAST CZERVIK SWD NO. 1 Y= 465161.92 N X= 769513.33 E LAT= 32.276646 N LONG= 103.595037 W 1 - Y= 467452.39, X= 767069.94 2 - Y= 467470.59, X= 772355.75 3 - Y= 462194.37, X= 772387.42 4 - Y= 462171.64, X= 767108.74</p> | | <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Ramona K. Honey</i> 10/17/18 Signature Date RAMONA K. HONEY Printed Name Date ramona@longquist.com Email Address Date</p> | |
| | | <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> | |
| | | <p>Date of Survey Date Signature and Seal of Professional Surveyor:</p> | |
| | | <p>PRELIMINARY THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT</p> | |
| Certificate Number | | | |

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazon Road, Artec, NM 87410
District IV
1220 S. St Francis Dr., NM 87505
Phone: (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|----------------------------------|---|--|
| ¹ API Number | ² Pool Code 97869 | ³ Pool Name SWD; Silurian-Devonian |
| ⁴ Property Code | ⁵ Property Name CZERVIK SWD | ⁶ Well Number #1 |
| ⁷ OGRID No. 308339 | ⁸ Operator Name OWL SWD OPERATING | ⁹ Elevation 3682.90' |

" Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| F | 29 | 23 S | 33 E | | 2301 | NORTH | 2426 | WEST | LEA |

" Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|

| | | | |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

| | |
|--|--|
| <div><p>16</p><p>GEODETIC DATA NAD 83 GRID - NM EAST</p><p>CZERVIK SWD NO. 1 Y= 465161.92 N X= 769513.33 E LAT= 32.276646 N LONG= 103.595037 W</p><p>1 - Y= 487452.39, X= 767069.94 2 - Y= 487470.59, X= 772355.75 3 - Y= 482194.37, X= 772387.42 4 - Y= 462171.64, X= 767108.74</p></div> | <div><p>17 OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p><p><i>Ramona Hovey</i> 10/18/19 Signature Date RAMONA HOVEY Printed Name Date <i>ramona@lonquist.com</i> Email Address Date</p><p>18 SURVEYOR CERTIFICATION</p><p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p><p>Date of Survey <i>Oct 18, 2019</i> Signature and Seal of Professional Surveyor: Certificate Number <i>20559</i></p></div> |
|--|--|

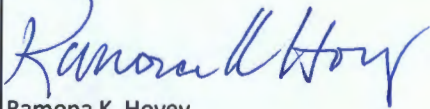
PROOF OF NOTICES SENT

Czervik SWD #1 Notice List**Lea County, NM****OWL SWD Operating, LLC**

| S/T/R | UNIT | REGULATORY | MAILING ADDRESS |
|--|---|--|---|
| | | SURFACE OWNER | MAILING ADDRESS |
| | | BUREAU OF LAND MANAGEMENT | 310 DINOSAUR TRAIL SANTA FE, NM 87502 |
| | | MINERAL LESSEE | MAILING ADDRESS |
| 19/23S/33E 21/23S/33E 30/23S/33E | I,O,P L,M,N A,H,I | CONOCOPHILLIPS CO | PO BOX 7500 BARTLESVILLE, OK 74005 |
| | | | |
| | | OFFSET OPERATORS | MAILING ADDRESS |
| 29/23S/33E 30/23S/33E | ALL P | OXY USA INC | PO BOX 4294 HOUSTON, TX 77210 |
| 20/23S/33E 28/23S/33E 33/23S/33E | E,F,K,L,M,N C,D,E,F,K,L,M,N C,D,E | DEVON ENERGY PRODUCTION COMPANY, LP | 20 N BROADWAY OKLAHOMA CITY, OK 73102 |
| 20/23S/33E | G,H,I,J,O,P | COG OPERATING LLC | 550 W TEXAS MIDLAND, TX 79701 |
| 30/23S/33E | B,C,F,G,J,K,O | CIMAREX ENERGY CO | 202 S. CHEYENNE AVE., SUITE 1000 TULSA, OK 74103 |
| 32/23S/33E | A,B,C,D,E,F,G,H | EOG Y RESOURCES INC | 104 S 4TH ST ARTESIA, NM 88210 |
| 32/23S/33E | D,E | EOG RESOURCES INC | PO BOX 2267 MIDLAND, TX 79702 |
| | | OTHER PARTIES | MAILING ADDRESS |
| | | | |

Notices were sent on 10/17/2018 for the Czervik SWD #1 application by mailing them a copy of the Form C-108. Proof of receipt of notice will be submitted to the OCD under separate cover.

Sincerely,



Ramona K. Hovey
Sr. Petroleum Engineer / Lonquist & Co., LLC
For OWL SWD Operating, LLC

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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

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near Camp
Eddy*

Bureau of Land Management
310 Dinosaur Trail
Santa Fe, New Mexico 87502

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

2E90 T262 0000 0090 9T02

SENDER: COMPLETE THIS SECTION

- Complete Items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Bureau of Land Management
310 Dinosaur Trail
Santa Fe, New Mexico 87502



9590 9402 4493 8248 8847 43

2. Article Number (Transfer from service label)

7016 0600 0000 2971 0632

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

1762 Czerwik

3. Service Type

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☐ Collect on Delivery
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☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

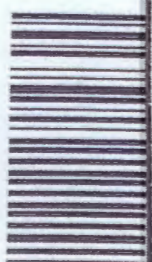
PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

Bureau of Land Management
310 C
Santa Fe, NM

LONQUIST & CO
PETROLEUM
ENGINEERS
AUSTIN | WICHITA | DE

7016 0600 0000



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☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

Postmark
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1762 Czerwik
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Cimarex Energy Company
 202 S. Cheyenne Avenue,
 Suite 100
 Tulsa, Oklahoma 74103

PS Form 3800, April 2015 PSN 7530-02-000-907

See reverse for instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1 Article Addressed to:

Cimarex Energy Company
 202 S. Cheyenne Avenue,
 Suite 100
 Tulsa, Oklahoma 74103



9590 9402 4493 8248 8847 36

2. Article Number (Transfer from service label)

7016 0600 0000 2971 0649

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☐ Agent

X

☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
 if YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
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☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

all Restricted Delivery (over \$500)

Domestic Return Receipt

PS Form 3811, July 2015 PSN 7530-02-000-9053

HOUSTON | CALGARY
 AUSTIN | WICHITA | DENVER




LONGUIST & CO. LLC

12912 Hill Country
 Suite F-200
 Bee Cave, Texas 7

Cimarex Energy Company
 202 S. Cheyenne Avenue, Suite
 Tulsa, Oklahoma 74103

7016 0600 0000 2971 0663

| | |
|---|--|
| U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only | |
| For delivery information, visit our website at www.usps.com | |
| OFFICIAL USE | |
| Certified Mail Fee \$ _____ | Postmark Here <i>1762 Glenville near Eddy OK</i> |
| Extra Services & Fees (check box, add fee as appropriate) | |
| <input type="checkbox"/> Return Receipt (hardcopy) \$ _____ | |
| <input type="checkbox"/> Return Receipt (electronic) \$ _____ | |
| <input type="checkbox"/> Certified Mail Restricted Delivery \$ _____ | |
| <input type="checkbox"/> Adult Signature Required \$ _____ | |
| <input type="checkbox"/> Adult Signature Restricted Delivery \$ _____ | |
| Postage | |
| Conoco Phillips Company P. O. Box 7500 Bartlesville, Oklahoma 74005 | |
| PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions | |

| | | |
|--|---|---------------------|
| SENDER: COMPLETE THIS SECTION | COMPLETE THIS SECTION ON DELIVERY | |
| <ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. | A. Signature X | |
| Conoco Phillips Company P. O. Box 7500 Bartlesville, Oklahoma 74005  9590 9402 3572 7305 4563 97 | <input type="checkbox"/> Agent <input type="checkbox"/> Addressee | |
| | B. Received by (Printed Name) | C. Date of Delivery |
| | D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No | |
| | <i>1762 Glenville near Eddy</i> | |
| 2. Article Number (Transfer from service label) 7016 0600 0000 2971 0663 | 3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Registered Mail <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery | |
| PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt | | |

7016 0600

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AUSTIN

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Extra Services & Fees (check box, add fee as appropriate)

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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

Postmark
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1762 Cynick
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 Caddy
 dry

COG Operating, LLC
 550 W Texas
 Midland, Texas 79701

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

SENDER: COMPLETE THIS SIDE

- Complete Items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

COG Operating, LLC
 550 W Texas
 Midland, Texas 79701



9590 9402 3572 7305 4563 80

2. Article Number (Transfer from service label)

7016 0600 0000 2971 0656

PS Form 3811, July 2015 PSN 7530-02-000-9053

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

1762 Cynick her Caddy

3. Service Type

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☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Mail Restricted Delivery (10)

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

HOUSTON | CALGARY
 AUSTIN | WICHITA | DENVER

PETROLEUM
 ENGINEERS
 ENERGY
 ADVISOR

LONQUIST & CO.

COG O
 550
 Midland,

7016 0600 0000 2971

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☐ Certified Mail Restricted Delivery

☐ Adult Signature Required

☐ Adult Signature Restricted Delivery \$

Postmark
Here

Postage

Devon Energy Production Co., LP
20 North Broadway
Oklahoma City, OK 73102

1762 Cignich
lea
Eddy

SENDER: COMPLETE THIS

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Devon Energy Production Co., LP
20 North Broadway
Oklahoma City, OK 73102



9590 9402 3572 7305 4564 03

2. Article Number (Transfer from service label)

7016 0600 0000 2971 0670

PS Form 3811, July 2015 PSN 7530-02-000-9053

X

B. Received by (Printed Name)

☐ Agent
☐ Addressee

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature

☐ Adult Signature Restricted Delivery

☐ Certified Mail®

☐ Certified Mail Restricted Delivery

☐ Collect on Delivery

☐ Collect on Delivery Restricted Delivery

☐ Insured Mail

Mail Restricted Delivery
(0)

☐ Priority Mail Express®

☐ Registered Mail™

☐ Registered Mail Restricted Delivery

☐ Return Receipt for Merchandise

☐ Signature Confirmation™

☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

Devon Energy P
20 North
Oklahoma C

HOUSTON | CALGARY
AUSTIN | WICHITA | DENVER

LONQUIST & CO. LLC
PETROLEUM
ENGINEERS
ENERGY
ADVISORS

7016 0600 0000 2971



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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

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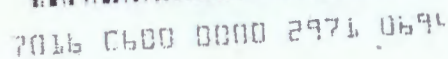
ENERGY
ADVISORS

LONQUIST & CO. LLC

12912 Hill Country Blvd
Suite F-200
Bee Cave, Texas 78738 USA

EOG Resources, Inc.
P. O. Box 2267
Midland, Texas 79702

7016 0600 0000 2971 0687



EOG Y Resc
104 S. 4'
Artesia, New M

3. Complete items 1, 2, and 3.
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EOG Y Resources, Inc.
104 S. 4th Street
Tulsa, New Mexico 88210

EOG Resources, Inc.
104 S. 4th Street
Martinez, New Mexico 88210

1762 Zenith
Dea
Eddy
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EOG

11

Artesia

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OXY USA, Inc.
P. O. Box 4294
Houston, Texas 77210

OXY USA, Inc.
P. O. Box 4294
Houston, Texas 77210

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☐ Agent

☐ Addressee

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C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
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1762 CRENSHAW BLVD

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- Signature Confirmation Restricted Delivery

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2. Article Number (Transfer from service label)

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PS Form 3811, July 2015 PSN 7530-02-000-9053

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ENGINEERS

OXY USA, Inc.
P. O. Box 4294
Houston, Texas 77210

12912 Hill Country Blvd
Suite F-200
Bee Cave, Texas 78738 USA

7016 0600 0000 2971 0700

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

October 10, 2018

BUREAU OF LAND MANAGEMENT
310 DINOSAUR TRAIL
SANTA FE, NM 87502

Subject: Czervik SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for OWL SWD Operating, LLC's Czervik SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application.

According to the New Mexico Oil Conservation Division, surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date in which this application was mailed to them.

Any questions should be directed towards OWL SWD Operating, LLC's agent, Lonquist & Co., LLC.

Regards,



Stephen L. Pattee, P.G.
Regulatory Manager
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

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ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

October 10, 2018

CIMAREX ENERGY CO
202 S. CHEYENNE AVE., SUITE 1000
TULSA, OK 74103

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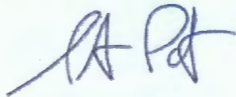
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October 10, 2018

COG OPERATING LLC
550 W TEXAS
MIDLAND, TX 79701

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October 10, 2018

CONOCOPHILLIPS CO
PO BOX 7500
BARTLESVILLE, OK 74005

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WICHITA
CALGARY

www.lonquist.com

October 10, 2018

DEVON ENERGY PRODUCTION COMPANY, LP
20 N BROADWAY
OKLAHOMA CITY, OK 73102

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October 10, 2018

EOG RESOURCES INC
PO BOX 2267
MIDLAND, TX 79702

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LONQUIST & CO. LLC

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October 10, 2018

EOG Y RESOURCES INC
104 S 4TH ST
ARTESIA, NM 88210

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October 10, 2018

OXY USA INC
PO BOX 4294
HOUSTON, TX 77210

Subject: Czervik SWD No. 1 Authorization to Inject

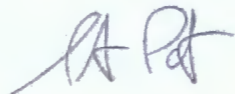
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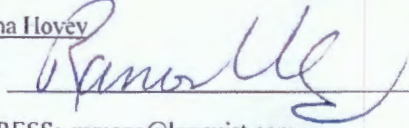
Regards,



Stephen L. Pattee, P.G.
Regulatory Manager
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ ☒ Yes _____ No
- II. OPERATOR: OWL SWD Operating, LLC
ADDRESS: 8214 Westchester Drive, Suite 850, Dallas, TX 75255
CONTACT PARTY: Preston Carr PHONE: (855) 695-7937
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes _____ ☒ No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Ramona Hovey TITLE: Consulting Engineer – Agent for OWL SWD Operating, LLC
SIGNATURE:  DATE: 10/11/2018
E-MAIL ADDRESS: ramona@lonquist.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: OWL SWD Operating, LLC (OGRID 308339)

WELL NAME & NUMBER: Czervik SWD No. 1

WELL LOCATION: 2,301' FNL & 2,426' FWL
FOOTAGE LOCATION

F
UNIT LETTER

29
SECTION

23 S
TOWNSHIP

33 E
RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26"

Casing Size: 20"

Cemented with: 3,600 sks

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Intermediate Casing 1

Hole Size: 17-1/2"

Casing Size: 13-5/8"

Cemented with: 3,640 sks

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Intermediate Casing 2

Hole Size: 12-1/4"

Casing Size: 9-5/8"

Cemented with: 3,145 sks

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Production Liner

Hole Size: 8-1/2"

Casing Size: 7-5/8"

Cemented with: 315 sks

or _____ ft³

Top of Cement: 13,875'

Method Determined: Calculation

Total Depth: 18,700'

Injection Interval

17,157 feet to 18,700 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.500", 20.0 lb/ft, P-110 BTC and UFJ (or equivalent), from 0' – 17,100'

Lining Material: Duoline

Type of Packer: 7-5/8" x 5.5" D&L Oil Tools Permapack Packer – Single Bore

Packer Setting Depth: 17,100'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? X Yes No

If no, for what purpose was the well originally drilled?

2. Name of the Injection Formation: Silurian-Devonian

3. Name of Field or Pool (if applicable): _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

No, new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

| Formation | Depth |
|---------------|---------|
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Devonian | 17,157' |

OWL SWD Operating, LLC.

Czervik SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

| Well information | |
|------------------|-------------------------|
| Lease Name | Czervik SWD |
| Well No. | 1 |
| Location | Unit F S-29 T-23S R-33E |
| Footage Location | 2,301' FNL & 2,426' FWL |

2.

a. Wellbore Description

| Casing Information | | | | |
|--------------------|-----------|-----------------------------|-------------------------|---------------------------|
| Type | Surface | Intermediate 1 | Intermediate 2 | Production Liner |
| OD | 20" | 13-5/8" | 9-5/8" | 7-5/8" |
| WT | 0.635" | 0.625" | 0.545" | 0.562" |
| ID | 18.730" | 12.375" | 8.535" | 6.501" |
| Drift ID | 18.542" | | 8.379" | 6.376" |
| COD | 21.000" | | 10.625" | 7.625" |
| Weight | 133 lb/ft | 88.2 lb/ft | 53.5 lb/ft | 42.8 lb/ft |
| Grade | J-55 STC | HCP-110 STC (Or Equivalent) | HCQ-125 (Or Equivalent) | P-110 UFJ (Or Equivalent) |
| Hole Size | 26" | 17-1/2" | 12-1/4" | 8-1/2" |
| Depth Set | 1,825' | 5,150' | 14,075' | 13,875' – 17,157' |

b. Cementing Program

| Cement Information | | | | |
|--------------------|----------------------|----------------------|---------------------------------------|------------------|
| Casing String | Surface | Intermediate 1 | Production | Production Liner |
| Lead Cement | HALCEM | HALCEM | Stage 1: NEOCEM Stage 2: NEOCEM | |
| Lead Cement Volume | 2,580 sks | 3,095 sks | Stage 1: 1625 sks Stage 2: 795 sks | |
| Tail Cement | HALCEM | HALCEM | Stage 1: NEOCEM Stage 2: HALCEM | VERSACEM |
| Tail Cement Volume | 1,020 sks | 545 sks | Stage 1: 625 sks Stage 2: 100 sks | 315 sks |
| Cement Excess | 100% | 100% | 100% | 50% |
| TOC | Surface | Surface | Surface | 13,875' |
| Method | Circulate to Surface | Circulate to Surface | Circulate to Surface | Calculation |

3. Tubing Description

| Tubing | | |
|-----------|---------------------------|---------------------------|
| OD | 5-1/2" | 5-1/2" |
| WT | 0.361" | 0.361" |
| ID | 4.778" | 4.778" |
| Drift ID | 4.653" | 4.653" |
| COD | 6.050" | 5.500" |
| Weight | 20 lb/ft | 20 lb/ft |
| Grade | P-110 BTC (Or Equivalent) | P-110 UFJ (Or Equivalent) |
| Depth Set | 13,700' | 13,700'-17,100' |

Tubing will be lined with Duoline.

4. Packer Description

D&L Oil Tools 7-5/8" x 5-1/2" Permapack Packer – Single Bore

B. Completion Information

1. Injection Formation: Silurian - Devonian
2. Gross Injection Interval: 17,157' – 18,700'

Completion Type: Open Hole

3. Drilled for injection.
4. See the attached wellbore schematic.
5. Oil and Gas Bearing Zones within area of well:

| Formation | Depth |
|---------------|---------|
| Delaware | 5,141' |
| Cherry Canyon | 5,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Devonian | 17,157' |

VI. Area of Review

No wells within the one-mile AOR penetrated the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 20,000 BPD
Maximum Volume: 30,000 BPD

2. Closed System
3. Anticipated Injection Pressure:

Average Injection Pressure: 2,573 PSI (surface pressure)
Maximum Injection Pressure: 3,431 PSI (surface pressure)

4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Bone Springs and Delaware formations.

5. The Devonian Formation is productive of oil and gas in this area.

VIII. Geological Data

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation near Jal are two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a successful Salt Water Disposal horizon.

A. Injection Zone: Devonian-Silurian Formation

| Formation | Depth |
|--------------------|---------|
| Rustler | 1,275' |
| Salado | 1,775' |
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Mississippian Lime | 16,545' |
| Woodford | 16,970' |
| Devonian | 17,157' |
| Fusselman | 18,107' |
| Montoya | 18,644' |

B. Underground Sources of Drinking Water

Water wells in the one-mile surrounding area for the proposed Czervik SWD No.1 well are at depths ranging from 550 ft to 650 ft. The Rustler may also be another USDW and will be protected through the top of the Salado Formation at 1,775' by setting surface casing at 1,825'.

| | | | | | | | | | |
|---|------------------|----------------|------------------|----------------|------------------|-----------------|-----------|------------|--------------------|
| 20 | surface csg in a | 26 | inch hole. | Design Factors | | | SURFACE | | |
| Segment | #/ft | Grade | Coupling | Joint | Collapse | Burst | Length | Weight | |
| "A" | 133.00 | J 55 | ST&C | 4.91 | 1.72 | 1.24 | 1,825 | 242,725 | |
| "B" | | | | | | | 0 | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 1,346 | | | Tail Cmt | does not | circ to sfc. | Totals: | 1,825 | 242,725 | |
| Comparison of Proposed to Minimum Required Cement Volumes | | | | | | | | | |
| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | Min Dist Hole-Cplg |
| 26 | 1.5053 | 3600 | 5652 | 2824 | 100 | 9.20 | 1328 | 2M | 2.50 |

| 13 5/8 | casing inside the | 20 | Design Factors | | | | INTERMEDIATE | |
|---|-------------------|---------|----------------|-------|----------------------|----------|--------------|---------------|
| Segment | #/ft | Grade | Coupling | Joint | Collapse | Burst | Length | Weight |
| "A" | 88.20 | HCP 110 | BUTT | 4.76 | 2.41 | 1.26 | 5,150 | 454,230 |
| "B" | | | | | | | 0 | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | Totals: | 5,150 454,230 |
| The cement volume(s) are intended to achieve a top of | | | | 0 | ft from surface or a | | 1825 | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE |
| 17 1/2 | 0.6578 | 3640 | 6092 | 3868 | 57 | 9.20 | 3923 | 5M 1.56 |

| 9 5/8 | casing inside the | 13 5/8 | Design Factors | | | | PRODUCTION | | |
|---|-------------------|---------|----------------|-------|----------------------|----------|------------|----------|-----------|
| Segment | #/ft | Grade | Coupling | Joint | Collapse | Burst | Length | Weight | |
| "A" | 53.50 | HCQ 125 | BUTT | 2.51 | 1.26 | 1.07 | 14,075 | 753,013 | |
| "B" | | | | | | | 0 | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 3,097 | | | | | | | Totals: | 14,075 | 753,013 |
| The cement volume(s) are intended to achieve a top of | | | | 0 | ft from surface or a | | 5150 | overlap. | |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | Hole-Cplg |
| 12 1/4 | 0.3132 | 3145 | 7375 | 4512 | 63 | 9.60 | 7812 | 10M | 0.81 |
| MASP is within 10% of 5000psig, need exrta equip? | | | | | | | | | |

| Tail cmt | | Liner w/top @ | | Design Factors | | | | LINER | |
|---|---------|---------------|-----------|----------------|----------------------|----------|---------|----------|---|
| 7 5/8 | #/ft | Grade | Coupling | Joint | Collapse | Burst | Length | Weight | |
| Segment | #/ft | Grade | Coupling | Joint | Collapse | Burst | Length | Weight | |
| "A" | 42.80 | P 110 | U F Joint | 7.74 | 1.2 | 1.22 | 3,282 | 140,470 | |
| "B" | | | | | | | 0 | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 3,775 | | | | | | | Totals: | 3,282 | 140,470 |
| The cement volume(s) are intended to achieve a top of | | | | 13875 | ft from surface or a | | 200 | overlap. | |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | Hole-Cpl |
| 8 1/2 | 0.0770 | 315 | 385 | 253 | 52 | 13.00 | | | 0.418 |
| Class 'H' tail cmt yld > 1.20 | | | | | | | | | MASP is within 10% of 5000psig, need exrta equip? |

November 1, 2018

New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division District IV
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
(505) 476-3440

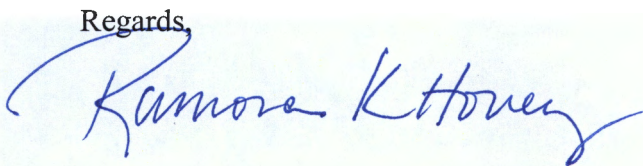
RE: CZERVIK SWD NO. 1 AUTHORIZATION TO INJECT; PROOF OF NOTICE

To Whom It May Concern:

Attached for your review, as part of the Form C-108, Application for Authorization to Inject for OWL SWD Operating, LLC's Czervik SWD No. 1, are the proofs of notice of the identified affected parties having received notice as attached. In the interest of minimizing printing, one full version of the notice is included plus the cover letters for each party, the sent receipts and the proof of delivery.

Any questions should be directed towards OWL SWD Operating, LLC's agent Lonquist & Co., LLC.

Regards,



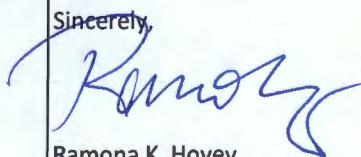
Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC
(512) 600-1777
ramona@lonquist.com

Czervik SWD #1 Notice List**Lea County, NM****OWL SWD Operating, LLC**

| S/T/R | UNIT | REGULATORY | MAILING ADDRESS |
|--|---|--|---|
| | | SURFACE OWNER | MAILING ADDRESS |
| | | BUREAU OF LAND MANAGEMENT | 310 DINOSAUR TRAIL SANTA FE, NM 87502 |
| | | MINERAL LESSEE | MAILING ADDRESS |
| 19/23S/33E 21/23S/33E 30/23S/33E | I,O,P L,M,N A,H,I | CONOCOPHILLIPS CO | PO BOX 7500 BARTLESVILLE, OK 74005 |
| | | | |
| | | OFFSET OPERATORS | MAILING ADDRESS |
| 29/23S/33E 30/23S/33E | ALL P | OXY USA INC | PO BOX 4294 HOUSTON, TX 77210 |
| 20/23S/33E 28/23S/33E 33/23S/33E | E,F,K,L,M,N C,D,E,F,K,L,M,N C,D,E | DEVON ENERGY PRODUCTION COMPANY, LP | 20 N BROADWAY OKLAHOMA CITY, OK 73102 |
| 20/23S/33E | G,H,I,J,O,P | COG OPERATING LLC | 550 W TEXAS MIDLAND, TX 79701 |
| 30/23S/33E | B,C,F,G,J,K,O | CIMAREX ENERGY CO | 202 S. CHEYENNE AVE., SUITE 1000 TULSA, OK 74103 |
| 32/23S/33E | A,B,C,D,E,F,G,H | EOG Y RESOURCES INC | 104 S 4TH ST ARTESIA, NM 88210 |
| 32/23S/33E | D,E | EOG RESOURCES INC | PO BOX 2267 MIDLAND, TX 79702 |
| | | OTHER PARTIES | MAILING ADDRESS |
| | | | |

Notices were sent on 10/17/2018 and 10/29/2018 for the Czervik SWD #1 application by mailing them a copy of the Form C-108.

Sincerely,



Ramona K. Hovey
Sr. Petroleum Engineer / Lonquist & Co., LLC
For OWL SWD Operating, LLC

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- ☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

Postmark
Here

1762 Cervik
Wen Long
Eddy

Bureau of Land Management
310 Dinosaur Trail
Santa Fe, New Mexico 87502

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Bureau of Land Management
310 Dinosaur Trail
Santa Fe, New Mexico 87502



9590 9402 4493 8248 8847 43

2. Article Number (Transfer from service label)

7016 0600 0000 2971 0632

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

1762 Cervik

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

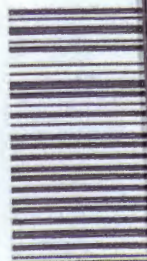
Domestic Return Receipt

Bureau of Land Management
310 C
Santa Fe, NM

HOUSTON CALGA
AUSTIN WICHITA DE

LONGUIST & CO
PETROLEUM
ENGINEERS
ENR
ADVISE

7016 0600 0000



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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

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Postmark
Here

1762 Czerwik
Eben
Edy
dy

Cimarex Energy Company
 202 S. Cheyenne Avenue,
 Suite 100
 Tulsa, Oklahoma 74103

PS Form 3800, April 2015 PSN 7530-02-000-9053

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Cimarex Energy Company
 202 S. Cheyenne Avenue,
 Suite 100
 Tulsa, Oklahoma 74103



9590 9402 4493 8248 8847 36

2. Article Number (Transfer from service label)

7016 0600 0000 2971 0649

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

(over school)

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PS Form 3811, July 2015 PSN 7530-02-000-9053

HOUSTON | CALGARY
 AUSTIN | WICHITA | DENVER

PETROLEUM
 ENGINEERS
 ENERGY
 ADVISORS

LONQUIST & CO. LLC

12912 Hill Country
 Suite F-200
 Bee Cave, Texas 7

Cimarex Energy Company
 202 S. Cheyenne Avenue, Suite
 Tulsa, Oklahoma 74103

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☐ Return Receipt (electronic)
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☐ Adult Signature Required
☐ Adult Signature Restricted Delivery

Postage

Postmark
 Here

1762 Gerville
 near Eddy
 OK

Conoco Phillips Company
 P. O. Box 7500
 Bartlesville, Oklahoma 74005

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7016 0600 0000 2971 0663

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Conoco Phillips Company
 P. O. Box 7500
 Bartlesville, Oklahoma 74005



9590 9402 3572 7305 4563 97

2. Article Number (Transfer from service label)

7016 0600 0000 2971 0663

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

1762 Gerville near Eddy

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Mail Restricted Delivery

Domestic Return Receipt

7016 0600

B:

HOU
 AUSTIN

LONG
 PETRO
 ENGIN

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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

Postmark
 Here

*1762 Czerwik
 near
 Caddy
 City*

COG Operating , LLC
 550 W Texas
 Midland, Texas 79701

PS Form 3800, April 2015 PSN 7500-02-000-9047

See Reverse for Instructions

SENDER: COMPLETE THIS SIDE

- Complete Items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

COG Operating , LLC
 550 W Texas
 Midland, Texas 79701



9590 9402 3572 7305 4563 80

2. Article Number (Transfer from service label)

7016 0600 0000 2971 0656

PS Form 3811, July 2015 PSN 7530-02-000-9053

A. Signature

X

☐ Agent

☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

1762 Czerwik near Caddy

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Mail Restricted Delivery (0)

Domestic Return Receipt

COG O
 550
 Midland,

HOUSTON | CALGARY
 AUSTIN | WICHITA | DENVER

PETROLEUM
 ENGINEERS
 ENERGY
 ADVISOR

LONGQUIST & CO.

7016 0600 0000 2971

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☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

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Here

1762 Czerwik
lea
Eddy

Devon Energy Production Co., LP
 20 North Broadway
 Oklahoma City, OK 73102

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

SENDER: COMPLETE THIS

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Devon Energy Production Co., LP
 20 North Broadway
 Oklahoma City, OK 73102



9590 9402 3572 7305 4564 03

2. Article Number (Transfer from service label)

7016 0600 0000 2971 0670

PS Form 3811, July 2015 PSN 7530-02-000-9053

X

B. Received by (Printed Name)

☐ Agent
☐ Addressee

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

1762 Czerwik lea Eddy

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail

☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Mail Restricted Delivery
 (0)

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Devon Energy
 20 North
 Oklahoma City

HOUSTON | CALGARY
 AUSTIN | WICHITA | DENVER

LONQUIST & CO. LLC
 PETROLEUM
 ENGINEERS
 ENERGY
 ADVISORS

7016 0600 0000 2971 0670



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- ☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postmark
Here

Postage

\$

Total Postage and Fees

\$

Sent To

EOG Resources Inc
 P.O. Box 2267
 Midland, TX 79702

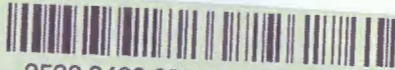
PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

EOG Resources, Inc.
 P. O. Box 2267
 Midland, Texas 79702



9590 9402 3572 7305 4564 10

2. Article Number (Transfer from service label)

7016 0600 0000 2971 0687

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

X

☐ Agent

☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

1762 Egervik
 near Eddy

3. Service Type

- ☐ Adult Signature ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☐ Certified Mail® ☐ Registered Mail Restricted Delivery
☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise
☐ Collect on Delivery ☐ Signature Confirmation™
☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery

HOUSTON | CALGARY
 AUSTIN | WICHITA | DENVER

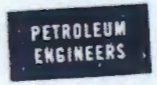
LONQUIST & CO. LLC
 PETROLEUM
 ENGINEERS
 ENERGY
 ADVISORS

12912 Hill Country Blvd
 Suite F-200
 Bee Cave, Texas 78738 USA

EOG Resources, Inc.
 P. O. Box 2267
 Midland, Texas 79702

7016 0600 0000 2971 0687

7016 0600 0000 2971 0691



EOG Y Resources
104 S. 4th
Artesia, New Mexico

SENDER COMPLETE THIS SECTION

- 1. Complete items 1, 2, and 3.
- 2. Print your name and address on the reverse so that we can return the card to you.
- 3. Attach this card to the back of the multipiece, or on the front if space permits.

EOG Y Resources, Inc.
104 S. 4th Street
Artesia, New Mexico 88210

EOG Y Resources, Inc.
104 S. 4th Street
Artesia, New Mexico 88210

1762 Gerald
Dean
Eddy
Uy

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent ☐ Addressee
- B. Received by (Printed Name) ☐ C. Date of Delivery
- D. In delivery address different from Return? ☐ Yes ☒ No
- E. YES, enter delivery address below: ☐ No

1762 Gerald Dean Eddy

| | |
|------------------------------|-------------------------------------|
| 3. Service Type | 4. Return Method |
| Agent Signature | Registered Mail |
| Adult Signature | Registered Mail Restricted Delivery |
| Restricted Delivery | Return Receipt for Merchandise |
| Priority Restricted Delivery | Signature Confirmation |
| Registered Delivery | Restricted Delivery |
| Domestic Return Receipt | |

SENDER: COM
■ Complete item
■ Print your name
so that we can
attach this card
or on the front

EOG

11

Artesia,

SENDER: COMPLETE THE

- Complete items 1, 2, and
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece or on the front if space permits.

OXY USA, Inc.
P. O. Box 4294
Houston, Texas 77210

OXY USA, Inc.
P. O. Box 4294
Houston, Texas 77210

X

☐ Agent
☐ Addressee
C. Date of Delivery

B. Received by (Printed Name)

Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

1762 CRENSHAW BLVD

- | | |
|---|--|
| 1. Service Type | Priority Mail Express |
| Adult Signature | Registered Mail™ |
| Adult Signature Restricted Delivery | Registered Mail Restricted Delivery |
| Certified Mail® | Return Receipt for Merchandise |
| Certified Mail Restricted Delivery | Signature Confirmation™ |
| Collect on Delivery | Signature Confirmation Restricted Delivery |
| Collect on Delivery Restricted Delivery | |
| Insured Mail™ | |
| Insured Mail Restricted Delivery | |

Domestic Return Receipt

2. Article Number (Transfer from service label)
7016 0600 0000 2971 0700
PS Form 3811, July 2015 PSN 7530-02-000-9053

**PETROLEUM
ENGINEERS**

OXY USA, Inc.
P. O. Box 4294
Houston, Texas 77210

12912 Hill Country Blvd
Suite F-200
Bee Cave Texas 78738 USA

7016 0600 0000 2971 0700

**Shipment Receipt****Address Information****Ship to:**

BUREAU OF LAND MGMT

301 DINOSAUR TRAIL

SANTA FE, NM

87508

US

5059542000

Ship from:

Steve Pattee

1001 MCKINNEY ST

STE 1650

HOUSTON, TX

770026423

US

7135599956

Shipment Information:

Tracking no.: 773587066736

Ship date: 10/29/2018

Estimated shipping charges: 13.91 USD

Package Information

Pricing option: FedEx Standard Rate

Service type: FedEx Ground

Package type: Your Packaging

Number of packages: 1

Total weight: 2 LBS

Declared Value: 0.00 USD

Special Services: Direct signature required

Pickup/Drop-off: Use an already scheduled pickup at my location

Billing Information:

Bill transportation to: MyAccount-089

Your reference 1645, 1646, 1792, 1793 - LEGAL NOTICES, RESEND

P.O. no.:

Invoice no.:

Department no.:

Thank you for shipping online with FedEx ShipManager at fedex.com.**Please Note**

FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1000, e.g., jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits; Consult the applicable FedEx Service Guide for details.

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HOUSTON

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ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

October 10, 2018

BUREAU OF LAND MANAGEMENT
310 DINOSAUR TRAIL
SANTA FE, NM 87502

Subject: Czervik SWD No. 1 Authorization to Inject

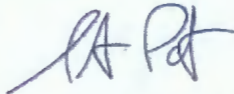
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Any questions should be directed towards OWL SWD Operating, LLC's agent, Lonquist & Co., LLC.

Regards,



Stephen L. Pattee, P.G.
Regulatory Manager
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

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October 10, 2018

CIMAREX ENERGY CO
202 S. CHEYENNE AVE., SUITE 1000
TULSA, OK 74103

Subject: Czervik SWD No. 1 Authorization to Inject

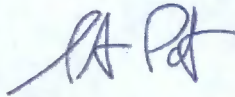
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October 10, 2018

COG OPERATING LLC
550 W TEXAS
MIDLAND, TX 79701

Subject: Czervik SWD No. 1 Authorization to Inject

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October 10, 2018

CONOCOPHILLIPS CO
PO BOX 7500
BARTLESVILLE, OK 74005

Subject: Czervik SWD No. 1 Authorization to Inject

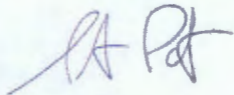
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October 10, 2018

DEVON ENERGY PRODUCTION COMPANY, LP
20 N BROADWAY
OKLAHOMA CITY, OK 73102

Subject: Czervik SWD No. 1 Authorization to Inject

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October 10, 2018

EOG RESOURCES INC
PO BOX 2267
MIDLAND, TX 79702

Subject: Czervik SWD No. 1 Authorization to Inject

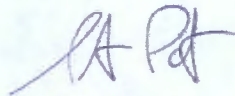
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October 10, 2018

EOG Y RESOURCES INC
104 S 4TH ST
ARTESIA, NM 88210

Subject: Czervik SWD No. 1 Authorization to Inject

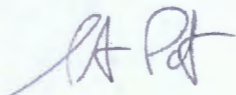
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CALGARY

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October 10, 2018

OXY USA INC
PO BOX 4294
HOUSTON, TX 77210

Subject: Czervik SWD No. 1 Authorization to Inject

To Whom It May Concern:

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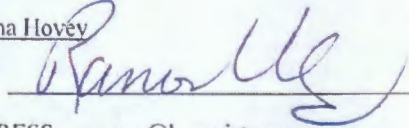
Regards,



Stephen L. Pattee, P.G.
Regulatory Manager
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: OWL SWD Operating, LLC
ADDRESS: 8214 Westchester Drive, Suite 850, Dallas, TX 75255
CONTACT PARTY: Preston Carr PHONE: (855) 695-7937
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Ramona Hovey TITLE: Consulting Engineer – Agent for OWL SWD Operating, LLC
SIGNATURE:  DATE: 10/11/2018
E-MAIL ADDRESS: ramona@lonquist.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: OWL SWD Operating, LLC (OGRID 308339)

WELL NAME & NUMBER: Czervik SWD No. 1

WELL LOCATION: 2,301' FNL & 2,426' FWL
FOOTAGE LOCATION

F
UNIT LETTER

29
SECTION

23 S
TOWNSHIP

33 E
RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26"

Casing Size: 20"

Cemented with: 3,600 sks

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Intermediate Casing 1

Hole Size: 17-1/2"

Casing Size: 13-5/8"

Cemented with: 3,640 sks

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Intermediate Casing 2

Hole Size: 12-1/4"

Casing Size: 9-5/8"

Cemented with: 3,145 sks

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Production Liner

Hole Size: 8-1/2"

Casing Size: 7-5/8"

Cemented with: 315 sks

or _____ ft³

Top of Cement: 13,875'

Method Determined: Calculation

Total Depth: 18,700'

Injection Interval

17,157 feet to 18,700 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.500", 20.0 lb/ft, P-110 BTC and UFJ (or equivalent), from 0' – 17,100'

Lining Material: Duoline

Type of Packer: 7-5/8" x 5.5" D&L Oil Tools Permapack Packer – Single Bore

Packer Setting Depth: 17,100'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? X Yes No

If no, for what purpose was the well originally drilled?

2. Name of the Injection Formation: Silurian-Devonian

3. Name of Field or Pool (if applicable): _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

No, new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

| Formation | Depth |
|---------------|---------|
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Devonian | 17,157' |

OWL SWD Operating, LLC.

Czervik SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

| Well information | |
|------------------|-------------------------|
| Lease Name | Czervik SWD |
| Well No. | 1 |
| Location | Unit F S-29 T-23S R-33E |
| Footage Location | 2,301' FNL & 2,426' FWL |

2.

a. Wellbore Description

| Casing Information | | | | |
|--------------------|-----------|-----------------------------|-------------------------|---------------------------|
| Type | Surface | Intermediate 1 | Intermediate 2 | Production Liner |
| OD | 20" | 13-5/8" | 9-5/8" | 7-5/8" |
| WT | 0.635" | 0.625" | 0.545" | 0.562" |
| ID | 18.730" | 12.375" | 8.535" | 6.501" |
| Drift ID | 18.542" | | 8.379" | 6.376" |
| COD | 21.000" | | 10.625" | 7.625" |
| Weight | 133 lb/ft | 88.2 lb/ft | 53.5 lb/ft | 42.8 lb/ft |
| Grade | J-55 STC | HCP-110 STC (Or Equivalent) | HCQ-125 (Or Equivalent) | P-110 UFJ (Or Equivalent) |
| Hole Size | 26" | 17-1/2" | 12-1/4" | 8-1/2" |
| Depth Set | 1,825' | 5,150' | 14,075' | 13,875' – 17,157' |

b. Cementing Program

| Cement Information | | | | |
|--------------------|----------------------|----------------------|---------------------------------------|------------------|
| Casing String | Surface | Intermediate 1 | Production | Production Liner |
| Lead Cement | HALCEM | HALCEM | Stage 1: NEOCEM Stage 2: NEOCEM | |
| Lead Cement Volume | 2,580 sks | 3,095 sks | Stage 1: 1625 sks Stage 2: 795 sks | |
| Tail Cement | HALCEM | HALCEM | Stage 1: NEOCEM Stage 2: HALCEM | VERSACEM |
| Tail Cement Volume | 1,020 sks | 545 sks | Stage 1: 625 sks Stage 2: 100 sks | 315 sks |
| Cement Excess | 100% | 100% | 100% | 50% |
| TOC | Surface | Surface | Surface | 13,875' |
| Method | Circulate to Surface | Circulate to Surface | Circulate to Surface | Calculation |

3. Tubing Description

| Tubing | | |
|-----------|---------------------------|---------------------------|
| OD | 5-1/2" | 5-1/2" |
| WT | 0.361" | 0.361" |
| ID | 4.778" | 4.778" |
| Drift ID | 4.653" | 4.653" |
| COD | 6.050" | 5.500" |
| Weight | 20 lb/ft | 20 lb/ft |
| Grade | P-110 BTC (Or Equivalent) | P-110 UFJ (Or Equivalent) |
| Depth Set | 13,700' | 13,700'-17,100' |

Tubing will be lined with Duoline.

4. Packer Description

D&L Oil Tools 7-5/8" x 5-1/2" Permapack Packer – Single Bore

B. Completion Information

1. Injection Formation: Silurian - Devonian
2. Gross Injection Interval: 17,157' – 18,700'

Completion Type: Open Hole

3. Drilled for injection.
4. See the attached wellbore schematic.
5. Oil and Gas Bearing Zones within area of well:

| Formation | Depth |
|---------------|---------|
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Devonian | 17,157' |

VI. Area of Review

No wells within the one-mile AOR penetrated the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 20,000 BPD
Maximum Volume: 30,000 BPD

2. Closed System
3. Anticipated Injection Pressure:

Average Injection Pressure: 2,573 PSI (surface pressure)
Maximum Injection Pressure: 3,431 PSI (surface pressure)

4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Bone Springs and Delaware formations.

5. The Devonian Formation is productive of oil and gas in this area.

VIII. Geological Data

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation near Jal are two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a successful Salt Water Disposal horizon.

A. Injection Zone: Devonian-Silurian Formation

| Formation | Depth |
|--------------------|---------|
| Rustler | 1,275' |
| Salado | 1,775' |
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Mississippian Lime | 16,545' |
| Woodford | 16,970' |
| Devonian | 17,157' |
| Fusselman | 18,107' |
| Montoya | 18,644' |

B. Underground Sources of Drinking Water

Water wells in the one-mile surrounding area for the proposed Czervik SWD No.1 well are at depths ranging from 550 ft to 650 ft. The Rustler may also be another USDW and will be protected through the top of the Salado Formation at 1,775' by setting surface casing at 1,825'.

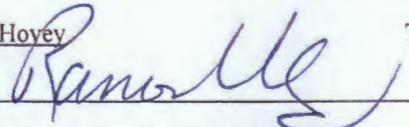
| | | | | | | | | | |
|---|------------------|----------------|------------------|----------------|------------------|-----------------|-----------|------------|--------------------|
| 20 | surface csg in a | 26 | inch hole. | Design Factors | | | SURFACE | | |
| Segment | #/ft | Grade | Coupling | Joint | Collapse | Burst | Length | Weight | |
| "A" | 133.00 | J 55 | ST&C | 4.91 | 1.72 | 1.24 | 1,825 | 242,725 | |
| "B" | | | | | | | 0 | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 1,346 | | | Tail Cmt | does not | circ to sfc. | Totals: | 1,825 | 242,725 | |
| Comparison of Proposed to Minimum Required Cement Volumes | | | | | | | | | |
| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | Min Dist Hole-Cplg |
| 26 | 1.5053 | 3600 | 5652 | 2824 | 100 | 9.20 | 1328 | 2M | 2.50 |

| | | | | | | | | | | |
|---|-------------------|---------|----------|-------|----------------------|----------|-----------------------|----------|---------------------|--|
| 13 5/8 | casing inside the | 20 | | | | | <u>Design Factors</u> | | <u>INTERMEDIATE</u> | |
| Segment | #/ft | Grade | Coupling | Joint | Collapse | Burst | Length | Weight | | |
| "A" | 88.20 | HCP 110 | BUTT | 4.76 | 2.41 | 1.26 | 5,150 | 454,230 | | |
| "B" | | | | | | | 0 | 0 | | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | Totals: | 5,150 | 454,230 | |
| The cement volume(s) are intended to achieve a top of | | | | 0 | ft from surface or a | | 1825 | overlap. | | |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | Min Dist | |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | Hole-Cplg | |
| 17 1/2 | 0.6578 | 3640 | 6092 | 3868 | 57 | 9.20 | 3923 | 5M | 1.56 | |

| 9 5/8 | casing inside the | 13 5/8 | Design Factors | | | | PRODUCTION | | |
|---|-------------------|---------|----------------|-------|----------------------|----------|------------|----------|-----------|
| Segment | #/ft | Grade | Coupling | Joint | Collapse | Burst | Length | Weight | |
| "A" | 53.50 | HCQ 125 | BUTT | 2.51 | 1.26 | 1.07 | 14,075 | 753,013 | |
| "B" | | | | | | | 0 | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 3,097 | | | | | | Totals: | 14,075 | 753,013 | |
| The cement volume(s) are intended to achieve a top of | | | | 0 | ft from surface or a | | 5150 | overlap. | |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | Hole-Cplg |
| 12 1/4 | 0.3132 | 3145 | 7375 | 4512 | 63 | 9.60 | 7812 | 10M | 0.81 |
| MASP is within 10% of 5000psig, need exrta equip? | | | | | | | | | |

| | | | | | | | | | |
|---|---------------|---------|-----------|--|----------------------|----------|--------|----------|-----------|
| Tail cmt | | | | | Design Factors | | | LINER | |
| 7 5/8 | Liner w/top @ | | | | | | | | |
| Segment | #/ft | Grade | Coupling | Joint | Collapse | Burst | Length | Weight | |
| "A" | 42.80 | P 110 | U F Joint | 7.74 | 1.2 | 1.22 | 3,282 | 140,470 | |
| "B" | | | | | | | 0 | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 3,775 | | | | | | Totals: | 3,282 | 140,470 | |
| The cement volume(s) are intended to achieve a top of | | | | 13875 | ft from surface or a | | 200 | overlap. | |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | Hole-Cplg |
| 8 1/2 | 0.0770 | 315 | 385 | 253 | 52 | 13.00 | | | 0.418 |
| Class 'H' tail cmt yld > 1.20 | | | | MASP is within 10% of 5000psig, need exrtia equip? | | | | | |

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ X Disposal _____ Storage
Application qualifies for administrative approval? _____ X Yes _____ No
- II. OPERATOR: OWL SWD Operating, LLC
ADDRESS: 8214 Westchester Drive, Suite 850, Dallas, TX 75255
CONTACT PARTY: Preston Carr PHONE: (855) 695-7937
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes _____ X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Ramona Hovey TITLE: Consulting Engineer – Agent for OWL SWD Operating, LLC
SIGNATURE:  DATE: 10/11/2018
E-MAIL ADDRESS: ramona@lonquist.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: OWL SWD Operating, LLC (OGRID 308339)WELL NAME & NUMBER: Czervik SWD No. 1WELL LOCATION: 2,301' FNL & 2,426' FWL
FOOTAGE LOCATIONF
UNIT LETTER29
SECTION23 S
TOWNSHIP33 E
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 26"

Casing Size: 20"

Cemented with: 3,600 sksor _____ ft³Top of Cement: surfaceMethod Determined: circulationIntermediate Casing 1Hole Size: 17-1/2"

Casing Size: 13-5/8"

Cemented with: 3,640 sksor _____ ft³Top of Cement: surfaceMethod Determined: circulationIntermediate Casing 2Hole Size: 12-1/4"

Casing Size: 9-5/8"

Cemented with: 3,145 sksor _____ ft³Top of Cement: surfaceMethod Determined: circulation

Production Liner

Hole Size: 8-1/2"

Casing Size: 7-5/8"

Cemented with: 315 sks

or _____ ft³

Top of Cement: 13,875'

Method Determined: Calculation

Total Depth: 18,700'

Injection Interval

17,157 feet to 18,700 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.500", 20.0 lb/ft, P-110 BTC and UFJ (or equivalent), from 0' – 17,100'

Lining Material: Duoline

Type of Packer: 7-5/8" x 5.5" D&L Oil Tools Permapack Packer – Single Bore

Packer Setting Depth: 17,100'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? X Yes No

If no, for what purpose was the well originally drilled?

2. Name of the Injection Formation: Silurian-Devonian

3. Name of Field or Pool (if applicable): _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

No, new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

| Formation | Depth |
|---------------|---------|
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Devonian | 17,157' |

OWL SWD Operating, LLC.

Czervik SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

| Well information | |
|------------------|-------------------------|
| Lease Name | Czervik SWD |
| Well No. | 1 |
| Location | Unit F S-29 T-23S R-33E |
| Footage Location | 2,301' FNL & 2,426' FWL |

2.

a. Wellbore Description

| Casing Information | | | | |
|--------------------|-----------|-----------------------------|-------------------------|---------------------------|
| Type | Surface | Intermediate 1 | Intermediate 2 | Production Liner |
| OD | 20" | 13-5/8" | 9-5/8" | 7-5/8" |
| WT | 0.635" | 0.625" | 0.545" | 0.562" |
| ID | 18.730" | 12.375" | 8.535" | 6.501" |
| Drift ID | 18.542" | | 8.379" | 6.376" |
| COD | 21.000" | | 10.625" | 7.625" |
| Weight | 133 lb/ft | 88.2 lb/ft | 53.5 lb/ft | 42.8 lb/ft |
| Grade | J-55 STC | HCP-110 STC (Or Equivalent) | HCQ-125 (Or Equivalent) | P-110 UFJ (Or Equivalent) |
| Hole Size | 26" | 17-1/2" | 12-1/4" | 8-1/2" |
| Depth Set | 1,825' | 5,150' | 14,075' | 13,875' – 17,157' |

b. Cementing Program

| Cement Information | | | | |
|--------------------|----------------------|----------------------|---------------------------------------|------------------|
| Casing String | Surface | Intermediate 1 | Production | Production Liner |
| Lead Cement | HALCEM | HALCEM | Stage 1: NEOCEM Stage 2: NEOCEM | |
| Lead Cement Volume | 2,580 sks | 3,095 sks | Stage 1: 1625 sks Stage 2: 795 sks | |
| Tail Cement | HALCEM | HALCEM | Stage 1: NEOCEM Stage 2: HALCEM | VERSACEM |
| Tail Cement Volume | 1,020 sks | 545 sks | Stage 1: 625 sks Stage 2: 100 sks | 315 sks |
| Cement Excess | 100% | 100% | 100% | 50% |
| TOC | Surface | Surface | Surface | 13,875' |
| Method | Circulate to Surface | Circulate to Surface | Circulate to Surface | Calculation |

3. Tubing Description

| Tubing | | |
|-----------|---------------------------|---------------------------|
| OD | 5-1/2" | 5-1/2" |
| WT | 0.361" | 0.361" |
| ID | 4.778" | 4.778" |
| Drift ID | 4.653" | 4.653" |
| COD | 6.050" | 5.500" |
| Weight | 20 lb/ft | 20 lb/ft |
| Grade | P-110 BTC (Or Equivalent) | P-110 UFJ (Or Equivalent) |
| Depth Set | 13,700' | 13,700'-17,100' |

Tubing will be lined with Duoline.

4. Packer Description

D&L Oil Tools 7-5/8" x 5-1/2" Permapack Packer – Single Bore

B. Completion Information

1. Injection Formation: Silurian - Devonian
2. Gross Injection Interval: 17,157' – 18,700'

Completion Type: Open Hole

3. Drilled for injection.
4. See the attached wellbore schematic.
5. Oil and Gas Bearing Zones within area of well:

| Formation | Depth |
|---------------|---------|
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Devonian | 17,157' |

VI. Area of Review

No wells within the one-mile AOR penetrated the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 20,000 BPD
Maximum Volume: 30,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

Average Injection Pressure: 2,573 PSI (surface pressure)
Maximum Injection Pressure: 3,431 PSI (surface pressure)

4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Bone Springs and Delaware formations.

5. The Devonian Formation is productive of oil and gas in this area.

VIII. Geological Data

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation near Jal are two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a successful Salt Water Disposal horizon.

A. Injection Zone: Devonian-Silurian Formation

| Formation | Depth |
|--------------------|---------|
| Rustler | 1,275' |
| Salado | 1,775' |
| Delaware | 5,141' |
| Cherry Canyon | 6,052' |
| Bone Spring | 9,007' |
| Wolfcamp | 12,253' |
| Strawn | 14,076' |
| Atoka | 14,279' |
| Morrow | 15,300' |
| Mississippian Lime | 16,545' |
| Woodford | 16,970' |
| Devonian | 17,157' |
| Fusselman | 18,107' |
| Montoya | 18,644' |

B. Underground Sources of Drinking Water

Water wells in the one-mile surrounding area for the proposed Czervik SWD No.1 well are at depths ranging from 550 ft to 650 ft. The Rustler may also be another USDW and will be protected through the top of the Salado Formation at 1,775' by setting surface casing at 1,825'.

IX. Proposed Stimulation Program

No proposed stimulation program.

X. Logging and Test Data on the Well

There are no existing logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

There are two (2) fresh water wells within one mile of the well location, per the New Mexico Office of the State Engineer. A list of all the water wells, a map of these wells and their associated Water Right Summaries are attached. Fresh water samples will be obtained from two of the wells and analysis of these samples will be submitted as soon as possible.

XII. Affirmative Statement of Examination of Geologic and Engineering Data

Based on the available engineering and geologic data we find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.



November 1, 2018

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|--------------------------|---------------------------|---------------------------|-------------------|
| Status: | Delivered | Delivery location: | Santa Fe, NM |
| Signed for by: | ADURAN | Delivery date: | Nov 1, 2018 10:05 |
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| Special Handling: | Direct Signature Required | | |

Signature image is available. In order to view image and detailed information, the shipper or payor account number of the shipment must be provided.

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|-------------------------|--------------|-------------------|----------------|
| Tracking number: | 773587066736 | Ship date: | Oct 29, 2018 |
| | | Weight: | 2.0 lbs/0.9 kg |

Recipient:
SANTA FE, NM US

Shipper:
HOUSTON, TX US

Reference

1645-Cedar Canyon#1 Legal Noti

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Feedback

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TULSA, OK 74103

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2018 ⓘ

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ARTESIA, NM 88210

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Your item was picked up at a postal facility at 7:40 am on October 22, 2018 in MIDLAND, TX 79702.

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Delivered, Individual Picked Up at Postal Facility
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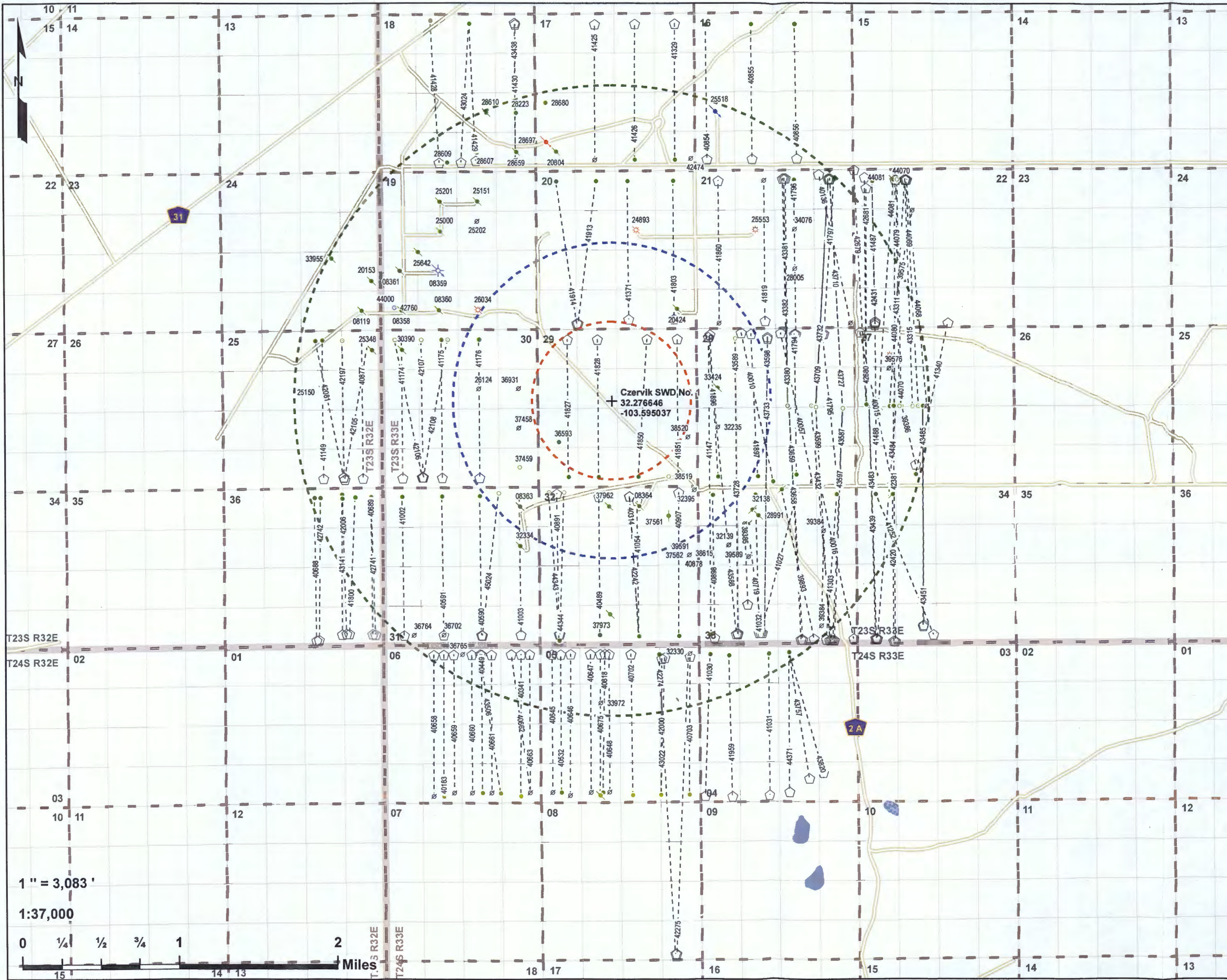
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Feedback

*NOTE: Black and white (grayscale) images show the outside, front of letter-sized envelopes and mailpieces that are processed through USPS automated equipment.



Czerwik SWD No. 1
2 Mile Area of Review
Oilfield Water Logistics
Lea County, NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

Drawn by: SJL Date: 10/4/2018 Approved by: ELR

LONQUIST & CO. LLC

PETROLEUM ENGINEERS **ENERGY ADVISORS**

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- + Czerwik SWD No. 1
- 1/2 Mile Radius
- 1 Mile Radius
- 2 Mile Radius
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Laterals

API (30-025-...) SHL Status - Type (Count)

- Horizontal Surface Location (142)
- Active - Oil (5)
- Active - Gas (1)
- Active - Salt Water Disposal (1)
- Active - Injection (1)
- Canceled Location (24)
- Permitted - Oil (3)
- Permitted - Salt Water Disposal (1)
- Approved TA - Oil (1)
- Plugged (Not Released) - Oil (1)
- Plugged (Site Released) - Oil (25)
- Plugged (Site Released) - Gas (2)
- Plugged (Site Released) - Salt Water Disposal (1)

API (30-025-...) BHL Status - Type (Count)

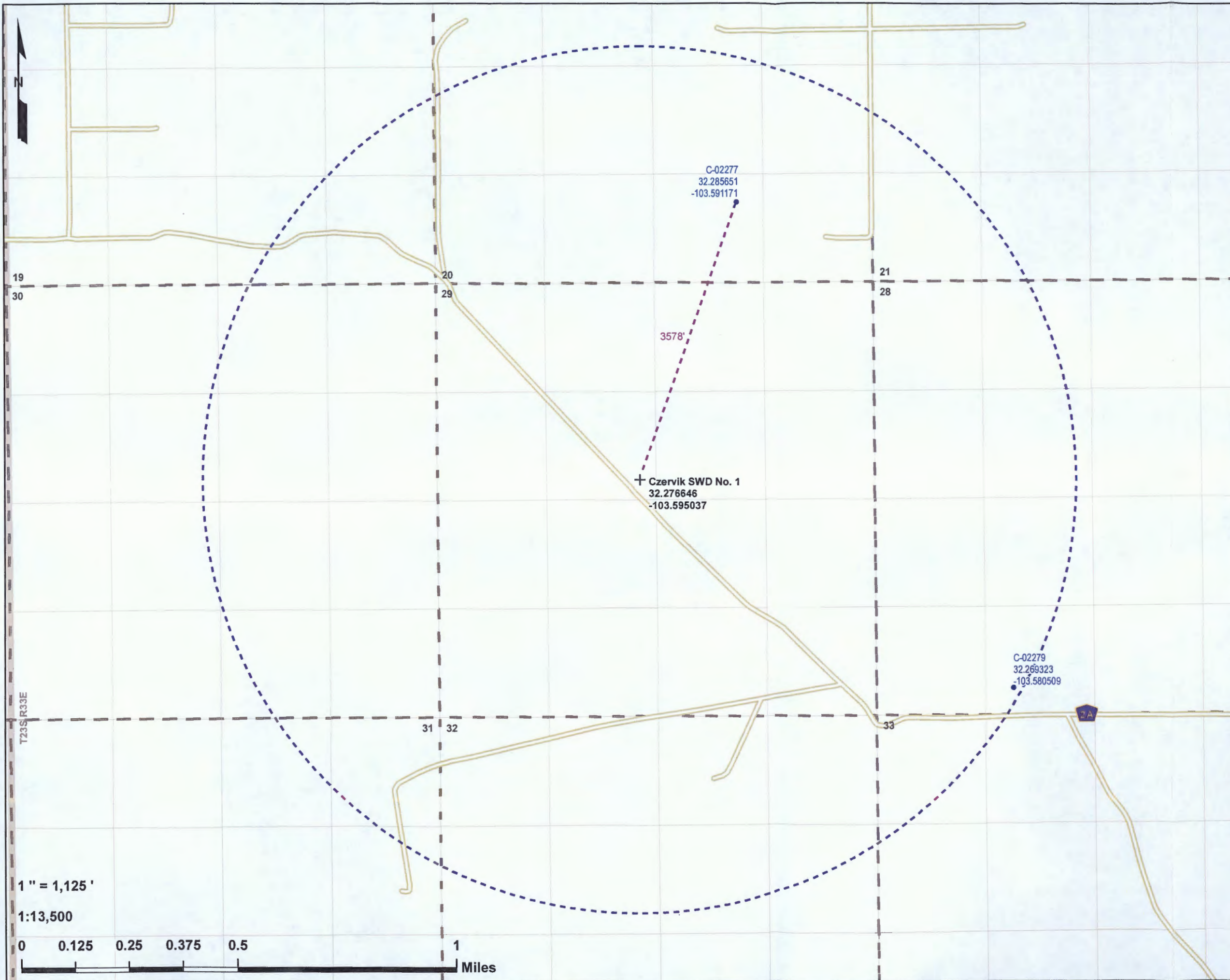
- Active - Oil (77)
- Active - Gas (1)
- Permitted - Oil (36)
- Canceled Location (23)
- Plugged (Not Released) - Oil (5)
- Plugged (Site Released) - Oil (2)

Source: Well SHL/BHL/Directional Data - NM-OC/D/DrillingInfo (2018)



Czervik SWD No. 1
1 Mile Area of Review List

| API (30-025-...) | WELL NAME | WELL TYPE | STATUS | OPERATOR | TVD (FT.) | LATITUDE (NAD83 DD) | LONGITUDE (NAD83 DD) | DATE DRILLED |
|------------------|-----------------------------------|-----------|--------|--|-----------|---------------------|----------------------|--------------|
| 08363 | PRE-ONGARD WELL #001 | O | P | PRE-ONGARD WELL OPERATOR | 5236 | 32.2666893000 | -103.604995700 | 1/1/1900 |
| 08364 | PRE-ONGARD WELL #001 | O | P | PRE-ONGARD WELL OPERATOR | 5360 | 32.26666260000 | -103.59218600000 | 1/1/1900 |
| 20424 | PRE-ONGARD WELL #001 | O | P | PRE-ONGARD WELL OPERATOR | 5344 | 32.2847900000 | -103.587936400 | 1/1/1900 |
| 26124 | PRE-ONGARD WELL #001 | O | C | PRE-ONGARD WELL OPERATOR | 0 | 32.2775698417 | -103.609314965 | 12/31/9999 |
| 32235 | THISTLE UNIT 28 FEDERAL #001 | O | C | SANTA FE ENERGY OPERATING PARTNERS L P | 9200 | 32.2739087826 | -103.583643703 | 12/31/9999 |
| 32395 | SALADO #003 | M | C | SALADO BRINE SALES | 0 | 32.2681247715 | -103.586213043 | 12/31/9999 |
| 33424 | THISTLE UNIT #002 | O | P | C W TRAINER | 15850 | 32.2775269000 | -103.583656300 | 5/27/1996 |
| 36593 | FOXGLOVE 29 FEDERAL #001 | O | A | OXY USA INC | 15850 | 32.2726212000 | -103.600738500 | 11/12/2004 |
| 36931 | FOXGLOVE 30 FEDERAL #001 | O | C | POGO PRODUCING CO | 0 | 32.2775649350 | -103.605023370 | 12/31/9999 |
| 37458 | FOXGLOVE 30 FEDERAL #003 | O | C | POGO PRODUCING COMPANY LLC | 0 | 32.2739506128 | -103.605018512 | 12/31/9999 |
| 37459 | FOXGLOVE 30 FEDERAL #002 | O | N | OXY USA INC | 0 | 32.2703171000 | -103.605003400 | 12/31/9999 |
| 37561 | YARROW BHY STATE #001 | O | T | EOG Y RESOURCES, INC. | 9140 | 32.2657509000 | -103.588981600 | 2/20/2006 |
| 37962 | FOXGLOVE 32 STATE #001 | O | P | OXY USA INC | 40 | 32.2666702000 | -103.595390300 | 6/30/2006 |
| 38519 | FOXGLOVE 29 FEDERAL #002 | O | N | OXY USA INC | 0 | 32.2693787000 | -103.588989300 | 12/31/9999 |
| 38520 | FOXGLOVE 29 FEDERAL #003 | O | C | POGO PRODUCING COMPANY LLC | 0 | 32.27300538770 | -103.58686151500 | 12/31/9999 |
| 40010 | THISTLE UNIT #018H | O | A | DEVON ENERGY PRODUCTION COMPANY, LP | 8942 | 32.2825584000 | -103.581039400 | 9/5/2011 |
| 40314 | YARROW BHY STATE #003C | O | C | EOG Y RESOURCES, INC. | 0 | 32.26757430000 | -103.59316250000 | 12/31/9999 |
| 40489 | HEMLOCK BSH STATE #001H | O | A | EOG Y RESOURCES, INC. | 11096 | 32.2675819000 | -103.596458400 | 5/30/2012 |
| 40891 | HEMLOCK BSH STATE #002H | O | A | EOG Y RESOURCES, INC. | 11156 | 32.26789090000 | -103.60099030000 | 1/26/2013 |
| 40898 | THISTLE UNIT #043H | O | A | DEVON ENERGY PRODUCTION COMPANY, LP | 11128 | 32.2545166000 | -103.584152200 | 3/1/2013 |
| 40907 | YARROW BHY STATE #005H | O | A | EOG Y RESOURCES, INC. | 11159 | 32.2679176000 | -103.587921100 | 1/3/2014 |
| 41003 | MIS AMIGOS STATE #002H | O | A | XTO ENERGY, INC | 11083 | 32.2549133000 | -103.604980500 | 6/25/2013 |
| 41054 | YARROW BHY STATE #004H | O | A | EOG Y RESOURCES, INC. | 11156 | 32.2671738000 | -103.592392000 | 11/30/2013 |
| 41147 | THISTLE UNIT #030H | O | A | DEVON ENERGY PRODUCTION COMPANY, LP | 9684 | 32.2821999000 | -103.584564200 | 12/21/2015 |
| 41176 | TRISTE DRAW 30 FEDERAL #003H | O | A | CIMAREX ENERGY CO. | 11019 | 32.26941680000 | -103.60927580000 | 11/16/2014 |
| 41371 | BRINNINSTOOL UNIT #003H | O | A | COG OPERATING LLC | 11044 | 32.2838898000 | -103.593109100 | 11/3/2013 |
| 41803 | BRINNINSTOOL UNIT #004H | O | A | COG OPERATING LLC | 11027 | 32.2838821000 | -103.588233900 | 12/15/2014 |
| 41827 | FOXGLOVE 29 FEDERAL #004H | O | A | OXY USA INC | 11138 | 32.2820625000 | -103.599708600 | 11/15/2014 |
| 41828 | FOXGLOVE 29 FEDERAL #005H | O | A | OXY USA INC | 11154 | 32.2820549000 | -103.596473700 | 9/14/2014 |
| 41850 | FOXGLOVE 29 FEDERAL #006H | O | A | OXY USA INC | 11150 | 32.2820473000 | -103.591171300 | 12/11/2014 |
| 41851 | FOXGLOVE 29 FEDERAL #007H | O | A | OXY USA INC | 11159 | 32.2820396000 | -103.587936400 | 10/16/2014 |
| 41860 | BRINNINSTOOL UNIT #005C | O | C | COG OPERATING LLC | 0 | 32.2965698000 | -103.583374000 | 12/31/9999 |
| 41896 | THISTLE UNIT #051H | O | A | DEVON ENERGY PRODUCTION COMPANY, LP | 11189 | 32.2824211000 | -103.584404000 | 9/13/2014 |
| 41897 | THISTLE UNIT #052H | O | A | DEVON ENERGY PRODUCTION COMPANY, LP | 11229 | 32.2824745000 | -103.579986600 | 10/17/2014 |
| 41913 | HORNED VIPER 20 FEDERAL COM #001H | O | A | DEVON ENERGY PRODUCTION COMPANY, LP | 11042 | 32.2835426000 | -103.598518400 | 2/1/2015 |
| 41914 | HORNED VIPER 20 FEDERAL COM #002H | O | A | DEVON ENERGY PRODUCTION COMPANY, LP | 11044 | 32.2835426000 | -103.598678600 | 1/4/2015 |
| 42242 | YARROW BHY STATE #003C | O | C | EOG Y RESOURCES, INC. | 0 | 32.26757620270 | -103.59319494600 | 12/31/9999 |
| 43588 | THISTLE UNIT #152H | O | N | DEVON ENERGY PRODUCTION COMPANY, LP | 0 | 32.2548475000 | -103.581824400 | 12/31/9999 |
| 43589 | THISTLE UNIT #153H | O | N | DEVON ENERGY PRODUCTION COMPANY, LP | 0 | 32.2549296000 | -103.581662800 | 12/31/9999 |
| 43598 | THISTLE UNIT #154H | O | N | DEVON ENERGY PRODUCTION COMPANY, LP | 0 | 32.2820599000 | -103.578241600 | 12/31/9999 |
| 43728 | THISTLE UNIT #157H | O | N | DEVON ENERGY PRODUCTION COMPANY, LP | 0 | 32.2548472000 | -103.581662700 | 12/31/9999 |
| 43733 | THISTLE UNIT #158H | O | N | DEVON ENERGY PRODUCTION COMPANY, LP | 0 | 32.2821973000 | -103.578245150 | 12/31/9999 |
| 44343 | HEMLOCK 32 STATE #701H | O | N | EOG RESOURCES INC | 0 | 32.2549505000 | -103.600855300 | 5/15/2018 |
| 44344 | HEMLOCK 32 STATE #702H | O | N | EOG RESOURCES INC | 0 | 32.2549503000 | -103.600748500 | 5/16/2018 |
| 45024 | MIS AMIGOS STATE #706H | O | N | XTO ENERGY, INC | 0 | 32.55487700000 | -103.60914600000 | 12/31/9999 |



Czervik SWD No. 1
Water Wells within 1 Mile
Oilfield Water Logistics
Lea County, NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)
Drawn by: SJL Date: 10/4/2018 Approved by: ELR

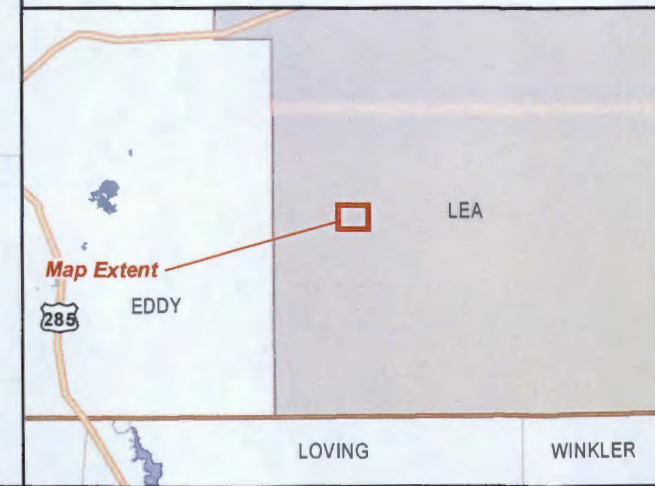
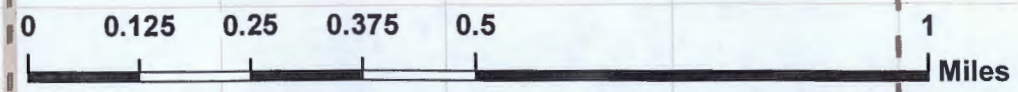
LONQUIST & CO. LLC

PETROLEUM ENGINEERS **ENERGY ADVISORS**

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

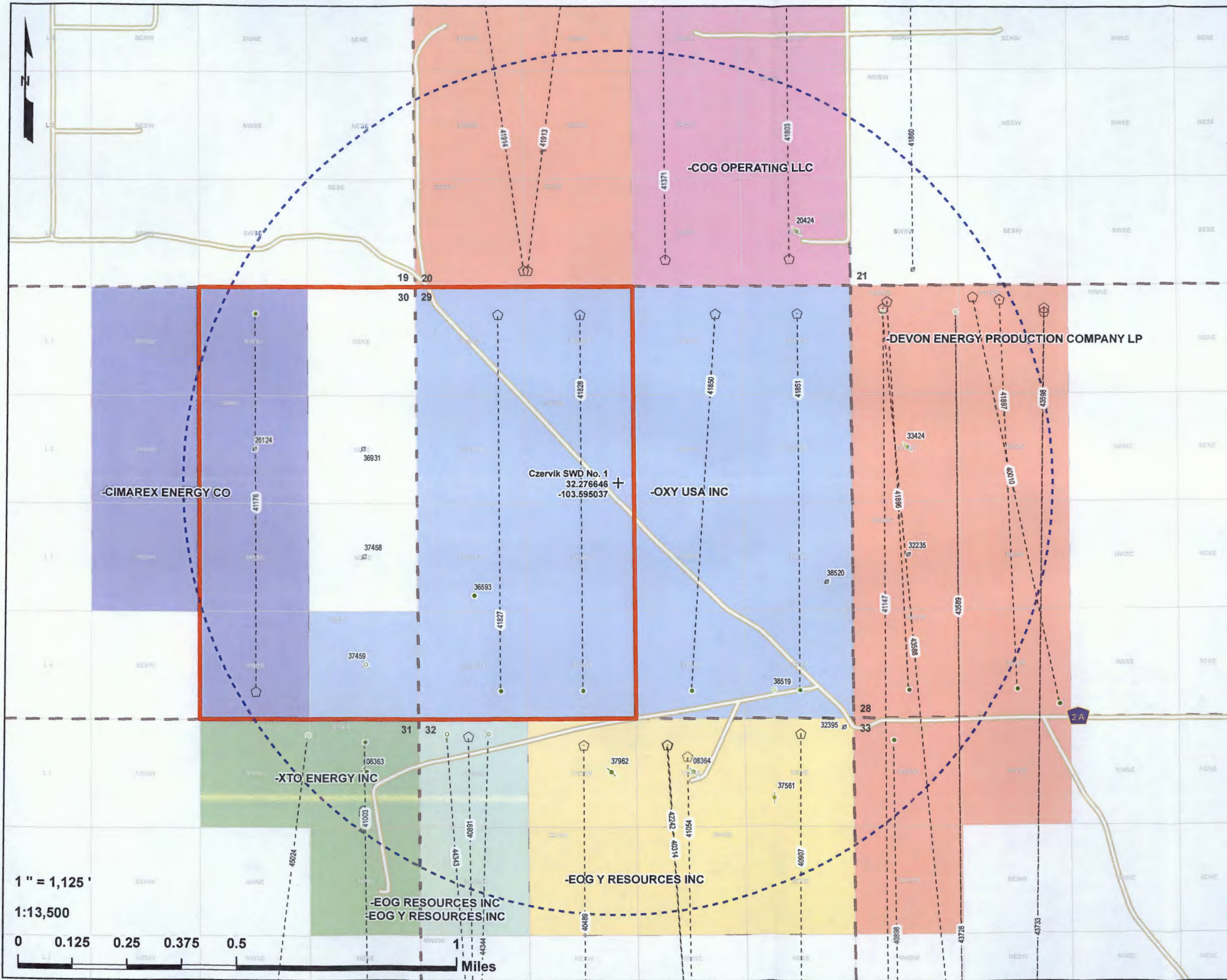
- + Czervik SWD No. 1
- Water Well (2) [NM-OSE 2018]
- - - 1 Mile Radius
- - - Distance Call
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)

1" = 1,125'
1:13,500



Czervik SWD No. 1
Water Wells Within 1 Mile List

| POD BASIN | POD # | T | R | S | WELL DEPTH | WATER DEPTH | WELL USE | POD STATUS | USE | OWNER LAST NAME | ADDRESS | LAT | LONG | EASTING | NORTHING | DATUM |
|--------------|-------|-----|-----|----|---------------|----------------|----------|---------------|-----|--------------------------|--------------------------------------|----------------|------------------|----------|-----------|-------|
| C | 02277 | 23S | 33E | 20 | 550 | 400 | | PMT | COM | BRININSTOOL XL RANCH LLC | 1523 BUTLER RD, SAN ANGELO, TX 76904 | 32.28565135910 | -103.59117100000 | 632663.0 | 3572970.0 | NAD83 |
| C | 02279 | 23S | 33E | 28 | 650 | 400 | | PMT | COM | BRININSTOOL XL RANCH LLC | 1523 BUTLER RD, SAN ANGELO, TX 76904 | 32.26932260140 | -103.58050937500 | 633691.0 | 3571173.0 | NAD83 |



Czervik SWD No. 1
1 Mile Offset Operators
Oilfield Water Logistics
Lea County, NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

Drawn by: SJL | Date: 10/5/2018 | Approved by: ELR

LONQUIST & CO. LLC
PETROLEUM ENGINEERS | ENERGY ADVISORS
AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

+ Czervik SWD No. 1

1 Mile Radius

QQ-Section (NM-PLSS 2nd Div.)

Section (NM-PLSS 1st Div.)

Township/Range (NM-PLSS)

Surface Owner Property Boundary (BLM)

Laterals

API (30-025-...) SHL Status - Type (Count)

- Horizontal Surface Location (30)
- Active - Oil (1)
- Canceled Location (6)
- Permitted - Oil (2)
- Approved TA - Oil (1)
- Plugged (Site Released) - Oil (5)

API (30-025-...) BHL Status - Type (Count)

- Active - Oil (19)
- Permitted - Oil (8)
- Canceled Location (3)

Operators

- CIMAREX ENERGY CO
- COG OPERATING LLC
- DEVON ENERGY PRODUCTION COMPANY LP
- EOG RESOURCES INC; -EOG Y RESOURCES INC
- EOG Y RESOURCES INC
- OXY USA INC
- XTO ENERGY INC

Source: Well SHL/BHL/Directional Data - NM-OCD/DrillingInfo (2018)

CHAVES EDDY

YOKUM TERRY

LEA

ANDREWS

LOVING WINKLER

CULBERSON REEVES

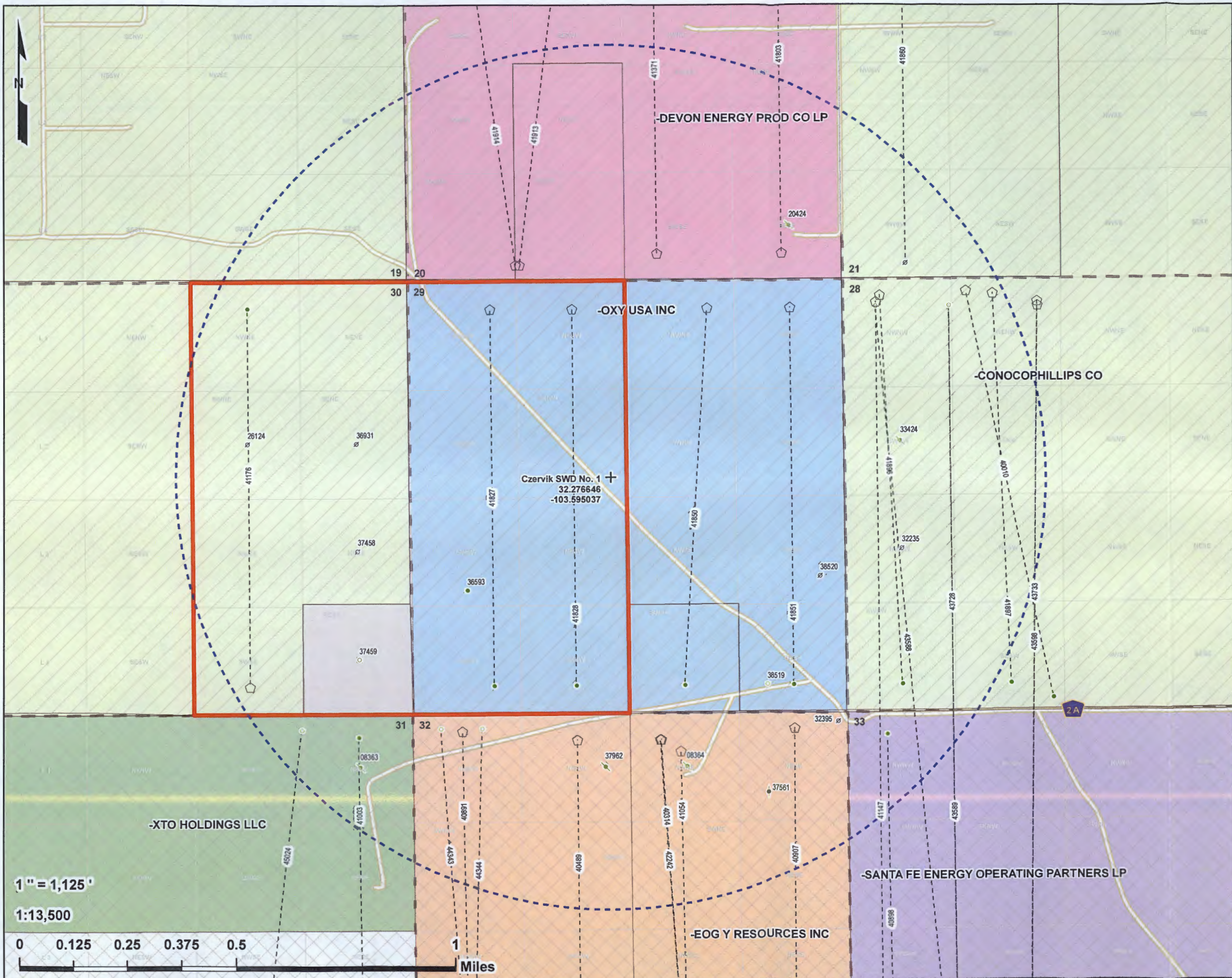
WARD ECTOR

CRANE

NEW MEXICO

TEXAS

Map Extent



Czervik SWD No. 1
1 Mile Offset Lessees
Oilfield Water Logistics
Lea County, NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

Drawn by: SJL Date: 10/4/2018 Approved by: ELR

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- + Czervik SWD No. 1
- 1 Mile Radius
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Surface Owner Property Boundary (BLM)
- NM - BLM (Leased)
- NM - BLM (Nonleased)
- NM - SLO
- Laterals
- API (30-025-...) SHL Status - Type (Count)
 - Horizontal Surface Location (30)
 - Active - Oil (1)
 - Canceled Location (6)
 - Permitted - Oil (2)
 - Approved TA - Oil (1)
 - Plugged (Site Released) - Oil (5)
- API (30-025-...) BHL Status - Type (Count)
 - Active - Oil (19)
 - Permitted - Oil (8)
 - Canceled Location (3)

- Lessees**
- CONOCOPHILLIPS CO
 - DEVON ENERGY PROD CO LP
 - EOG Y RESOURCES INC
 - OXY USA INC
 - SANTA FE ENERGY OPERATING PARTNERS LP
 - XTO HOLDINGS LLC

Source: Well SHL/BHL/Directional Data - NM-OCD/DrillingInfo (2018)



Czervik SWD No. 1
1 Mile Offset Operators and Lessees List

| S/T/R | QQ UNIT LETTER(S) | OPERATOR | MINERAL LESSEE | MINERAL OWNER | SURFACE OWNER | ADDRESS 1 | ADDRESS 2 |
|------------------|-------------------|------------------------------------|-------------------|---------------|---------------------------|------------------------------------|-------------------------|
| 19/23S/33E | I,O,P | - | CONOCOPHILLIPS CO | - | - | PO BOX 7500 | BARTLESVILLE, OK 74005 |
| 20/23S/33E | E,F,K,L,M,N | DEVON ENERGY PRODUCTION COMPANY LP | - | - | - | 20 N BROADWAY | OKLAHOMA CITY, OK 73102 |
| | G,H,I,J,O,P | COG OPERATING LLC | - | - | - | 550 W TEXAS | MIDLAND, TX 79701 |
| 21/23S/33E | L,M,N | - | CONOCOPHILLIPS CO | - | - | PO BOX 7500 | BARTLESVILLE, OK 74005 |
| 28/23S/33E | C,D,E,F,K,L,M,N | DEVON ENERGY PRODUCTION COMPANY LP | - | - | - | 20 N BROADWAY | OKLAHOMA CITY, OK 73102 |
| 29/23S/33E | Entire Section | OXY USA INC | - | - | - | PO BOX 4294 | HOUSTON, TX 77210 |
| 30/23S/33E | B,C,F,G,J,K,O | CIMAREX ENERGY CO | - | - | - | 202 S. CHEYENNE AVE. SUITE 1000 | TULSA, OK 74103 |
| | P | OXY USA INC | - | - | - | PO BOX 4294 | HOUSTON, TX 77210 |
| | A,H,I | - | CONOCOPHILLIPS CO | - | - | PO BOX 7500 | BARTLESVILLE, OK 74005 |
| 31/23S/33E | A,B,H | XTO ENERGY INC | - | - | - | 6401 HOLIDAY HILL ROAD BUILDING #5 | MIDLAND, TX 79707 |
| 32/23S/33E | D,E | EOG RESOURCES INC | - | - | - | PO BOX 2267 | MIDLAND, TX 79702 |
| | | EOG Y RESOURCES INC | - | - | - | 104 S 4TH ST | ARTESIA, NM 88210 |
| | A,B,C,F,G,H | EOG Y RESOURCES INC | - | - | - | 104 S 4TH ST | ARTESIA, NM 88210 |
| 33/23S/33E | C,D,E | DEVON ENERGY PRODUCTION COMPANY LP | - | - | - | 20 N BROADWAY | OKLAHOMA CITY, OK 73102 |
| Surface Location | - | - | - | - | BUREAU OF LAND MANAGEMENT | 301 DINOSAUR TRAIL | SANTA FE, NM 87502 |

Produced Water Analysis - Surrounding Areas
Czervik SWD #1

| wellname | api | latitude | longitude | S | T | R | unit | ftgns | ftgew | county | state | formation | sampledate | ph | tds_mgl | resistivity ohm_cm | sodium_mgl | calcium_mgl | iron_mgl | magnesium_mgl | manganese_mgl | chloride_mgl | bicarbonate mgl | sulfate mgl | co2_mgl | |
|-----------------------------|------------|------------|--------------|----|-----|-----|------|-------|-------|--------|-------|---------------------|------------|------|---------|-----------------------|------------|-------------|----------|---------------|---------------|--------------|--------------------|----------------|---------|------|
| SPUD 16 STATE #009H | 3001538059 | 32.3013306 | -103.9873581 | 16 | 23S | 29E | O | 1265S | 1905E | EDDY | NM | AVALON UPPER | 4/16/2015 | 7 | 154164 | 0.06015 | 54960.3 | 797.8 | 35.2 | 202.5 | | 0 | 92020.7 | 3660 | 0 | 1100 |
| SPUD 16 STATE #009H | 3001538059 | 32.3013306 | -103.9873581 | 16 | 23S | 29E | O | 1265S | 1905E | EDDY | NM | AVALON UPPER | 5/11/2011 | 7 | 154965 | | 58687.2 | 719 | 54 | 131 | | 1 | 91118 | 1671.4 | 1502 | 70 |
| H B 11 FEDERAL #008H | 3001537900 | 32.2385559 | -103.951973 | 11 | 24S | 29E | B | 330N | 1650E | EDDY | NM | AVALON UPPER | 6/21/2011 | 7 | 174709 | | 64668.1 | 2184 | 20 | 358 | | 0.4 | 104800 | 878.4 | 575 | 50 |
| REMUDA BASIN UNIT #001 | 3001503691 | 32.2886238 | -103.9360428 | 24 | 23S | 29E | J | 1980S | 1980E | EDDY | NM | BONE SPRING | | | 271010 | | | | | | | 168800 | 130 | 100 | | |
| GAINES 21 #001 | 3001528638 | 32.1984482 | -103.9862366 | 21 | 24S | 29E | O | 990S | 1650E | EDDY | NM | BONE SPRING | 12/17/1996 | 8.48 | 8856 | | 0 | 601.2 | 0 | 72.915 | | 62858.2 | 260504 | 0 | | |
| KNOLL AOK FEDERAL #001 | 3001528127 | 32.2485847 | -103.970253 | 3 | 24S | 29E | G | 1980N | 1980E | EDDY | NM | BONE SPRING | 11/27/2000 | 6.15 | | | | 2162 | 0 | 775 | | 84981 | 381 | 600 | | |
| CORRAL DRAW AQH FEDERAL #0 | 3001529396 | 32.2166748 | -103.9455948 | 13 | 24S | 29E | L | 2310S | 330W | EDDY | NM | BONE SPRING | 12/27/2000 | 5.59 | | | | 25552 | 175 | 4471 | | 164963 | 73 | 190 | | |
| SPUD 16 STATE #010H | 3001541148 | 32.3035698 | -103.9833145 | 16 | 23S | 29E | I | 2080S | 660E | EDDY | NM | BONE SPRING 1ST SAN | 4/16/2015 | 7 | 152943 | 0.06013 | 54183.5 | 1409.3 | 16.2 | 274.9 | 0 | 92807.2 | 2305.8 | 0 | 400 | |
| SPUD 16 STATE #011H | 3001541149 | 32.3034325 | -103.9833145 | 16 | 23S | 29E | I | 2030S | 660E | EDDY | NM | BONE SPRING 1ST SAN | 4/16/2015 | 7 | 153042 | 0.06026 | 53895.7 | 1294.2 | 0 | 272.6 | 0 | 92918.4 | 2708.4 | 0 | 460 | |
| SPUD 16 STATE #012H | 3001541150 | 32.3032951 | -103.9833221 | 16 | 23S | 29E | I | 1980S | 660E | EDDY | NM | BONE SPRING 1ST SAN | 4/16/2015 | 7 | 146425 | 0.06343 | 55118.3 | 1444.9 | 11.4 | 312.8 | 0 | 84786.2 | 2659.6 | 0 | 420 | |
| SPUD 16 STATE #008H | 3001540038 | 32.3110275 | -103.9960938 | 16 | 23S | 29E | D | 523N | 665W | EDDY | NM | BONE SPRING 1ST SAN | 6/28/2012 | 6.7 | 153751 | | 57590.8 | 1198 | 10 | 244 | 0.3 | 91697 | 951.6 | 755 | 60 | |
| GUY A REED #001 | 3001510872 | 32.2050591 | -104.0471802 | 24 | 24S | 28E | E | 1980N | 660W | EDDY | NM | DELAWARE | 10/26/1966 | 6.1 | 130273 | | | | | | | 78600 | 14 | 605 | | |
| MALAGA UNIT #001 | 3001502494 | 32.2241287 | -104.0375977 | 13 | 24S | 28E | B | 330N | 1650E | EDDY | NM | DELAWARE | | | 148288 | | | | | | | 91050 | 182 | 400 | | |
| CONTINENTAL FED #002 | 3001510172 | 32.1136971 | -103.9099655 | 20 | 25S | 30E | L | 1980S | 660W | EDDY | NM | DELAWARE | 10/8/1959 | | 157068 | | | | | | | 97030 | 68 | 510 | | |
| R & B FED FED A #001 | 3001504752 | 32.1356773 | -103.9099731 | 17 | 25S | 30E | D | 664N | 667W | EDDY | NM | DELAWARE | 5/17/1966 | 7 | 146809 | | | | | | | 89710 | 24 | 346 | | |
| HOPP FED #001 | 3001504738 | 32.1541061 | -103.8926697 | 4 | 25S | 30E | M | 660S | 660W | EDDY | NM | DELAWARE | | | 146106 | | | | | | | 89810 | 40 | 403 | | |
| HOPP FED #001 | 3001504738 | 32.1541061 | -103.8926697 | 4 | 25S | 30E | M | 660S | 660W | EDDY | NM | DELAWARE | | | 180137 | | | | | | | 110500 | 232 | 1199 | | |
| R AND B FEDERAL #001Y | 3001504753 | 32.1358185 | -103.9101486 | 17 | 25S | 30E | D | 611N | 614W | EDDY | NM | DELAWARE | | | 146130 | | | | | | | 89700 | 24 | 346 | | |
| BENNETT FEDERAL #001 | 3001524071 | 32.0954132 | -103.9184418 | 30 | 25S | 30E | O | 660S | 1980E | EDDY | NM | DELAWARE | 3/23/1982 | 6.85 | 100240 | | 51658 | 2400 | 2.5 | 4000 | | 93000 | 640 | 3756 | | |
| BENNETT FEDERAL #001 | 3001524071 | 32.0954132 | -103.9184418 | 30 | 25S | 30E | O | 660S | 1980E | EDDY | NM | DELAWARE | 6/1/1983 | 6 | 103300 | | 53495 | 3120 | 10 | 3080 | | 97000 | 100 | | | |
| CONTINENTAL FEDERAL #001 | 3001510048 | 32.1210632 | -103.9099731 | 20 | 25S | 30E | D | 660N | 660W | EDDY | NM | DELAWARE | | | 311052 | | | | | | | 186800 | 86 | 2820 | | |
| CONTINENTAL FEDERAL #001 | 3001510048 | 32.1210632 | -103.9099731 | 20 | 25S | 30E | D | 660N | 660W | EDDY | NM | DELAWARE | | | 170607 | | | | | | | 104300 | 81 | 1003 | | |
| CONTINENTAL FEDERAL #001 | 3001510048 | 32.1210632 | -103.9099731 | 20 | 25S | 30E | D | 660N | 660W | EDDY | NM | DELAWARE | | | 193989 | | | | | | | 119700 | 82 | 1446 | | |
| SUPERIOR STATE #002 | 3001510181 | 32.1430664 | -103.8969803 | 8 | 25S | 30E | I | 1980S | 660E | EDDY | NM | DELAWARE | | | 155173 | | | | | | | 92820 | 122 | 133 | | |
| SUPERIOR STATE #002 | 3001510181 | 32.1430664 | -103.8969803 | 8 | 25S | 30E | I | 1980S | 660E | EDDY | NM | DELAWARE | | | 150830 | | | | | | | | | | | |
| SPUD 16 STATE #007H | 3001536078 | 32.3099632 | -103.995636 | 16 | 23S | 29E | D | 910N | 810W | EDDY | NM | DELAWARE-BRUSHY CA | 7/14/2014 | 6.3 | 298475 | | 74542.2 | 32307.5 | 51.6 | 4723.3 | 10.04 | 182394 | 25 | 3.4 | 410 | |
| LAGUNA SALADO 22 FEDERAL #C | 3001536461 | 32.294426 | -103.9730835 | 22 | 23S | 29E | C | 1240N | 2510W | EDDY | NM | DELAWARE-BRUSHY CA | 2/25/2015 | 6.2 | 297620 | | 71506.6 | 31763.4 | 60.5 | 4690.6 | 11.03 | 186000 | 188 | 0 | 300 | |
| LAGUNA SALADO 22 FEDERAL #C | 3001536738 | 32.2922592 | -103.9752045 | 22 | 23S | 29E | | 2030N | 1855W | EDDY | NM | DELAWARE-BRUSHY CA | 2/25/2015 | 6.1 | 288731 | | 69567.3 | 31995.5 | 59 | 4780.6 | 10.36 | 179020.5 | 122 | 0 | 300 | |
| LAGUNA SALADO 22 FEDERAL #C | 3001535073 | 32.2835922 | -103.9787598 | 22 | 23S | 29E | M | 130S | 760W | EDDY | NM | DELAWARE-BRUSHY CA | 3/10/2015 | 6.5 | 108093 | 0.04824 | 72995 | 26487.3 | 283.7 | 4547.4 | 17.1 | | | | 1430 | |
| LAGUNA SALADO 22 FEDERAL #C | 3001536461 | 32.294426 | -103.9730835 | 22 | 23S | 29E | C | 1240N | 2510W | EDDY | NM | DELAWARE-BRUSHY CA | 3/10/2015 | 6.3 | 302545 | 0.04833 | 72865 | 32249.2 | 56.3 | 4836.7 | 11.18 | 188800 | 36.6 | 0 | 420 | |
| LAGUNA SALADO 22 FEDERAL #C | 3001536738 | 32.2922592 | -103.9752045 | 22 | 23S | 29E | | 2030N | 1855W | EDDY | NM | DELAWARE-BRUSHY CA | 3/10/2015 | 6.2 | 294876 | 0.04844 | 71940.2 | 32644.8 | 53 | 4969.8 | 10.75 | 181883.2 | 61 | 0 | 350 | |
| SPUD 16 STATE #007H | 3001536078 | 32.3099632 | -103.995636 | 16 | 23S | 29E | D | 910N | 810W | EDDY | NM | DELAWARE-BRUSHY CA | 4/16/2015 | 6 | 303155 | 0.04979 | 76907.7 | 33274.3 | 61.8 | 4821.1 | 10.2 | 183875.4 | 610 | 0 | 2000 | |
| LAGUNA SALADO 22 FEDERAL #C | 3001536461 | 32.294426 | -103.9730835 | 22 | 23S | 29E | C | 1240N | 2510W | EDDY | NM | DELAWARE-BRUSHY CA | 4/16/2015 | 6.9 | 292358 | 0.1431 | 68893.3 | 31112 | 55.4 | 4508.7 | 10.57 | 184250 | 244 | 0 | 360 | |
| LAGUNA SALADO 22 FEDERAL #C | 3001536738 | 32.2922592 | -103.9752045 | 22 | 23S | 29E | | 2030N | 1855W | EDDY | NM | DELAWARE-BRUSHY CA | 4/16/2015 | 6.5 | 292239 | 0.04954 | 69172.3 | 31471.9 | 52.1 | 4556.6 | 10.16 | 183597.2 | 122 | 0 | 320 | |
| HARROUN TRUST 31 #004H | 3001540826 | 32.2551231 | -104.0195923 | 31 | 23S | 29E | O | 330S | 1345E | EDDY | NM | DELAWARE-BRUSHY CA | 4/16/2015 | 7 | 297841 | 0.04949 | 79092.1 | 29745.4 | 70.1 | 4416.8 | 8.77 | 180802.1 | 85.4 | 0 | 2000 | |
| HARROUN TRUST 31 #005H | 3001540827 | 32.2551231 | -104.0194244 | 31 | 23S | 29E | P | 330S | 1295E | EDDY | NM | DELAWARE-BRUSHY CA | 4/16/2015 | 6 | 295110 | 0.04941 | 76800.3 | 28511.9 | 59.9 | 4244.8 | 8.25 | 181794.5 | 73.2 | 0 | 2000 | |
| HARROUN TRUST 31 30 FEDERAL | 3001541963 | 32.2551956 | -104.0280991 | 31 | 23S | 29E | M | 330S | 1305W | EDDY | NM | DELAWARE-BRUSHY CA | 4/16/2015 | 6 | 296788 | 0.04959 | 80277.8 | 29889.4 | 64.8 | 4475.1 | 7.97 | 178388.3 | 73.2 | 0 | 2000 | |
| LAGUNA SALADO 22 FEDERAL #C | 3001535073 | 32.2835922 | -103.9787598 | 22 | 23S | 29E | M | 130S | 760W | EDDY | NM | DELAWARE-BRUSHY CA | 4/26/2007 | 5 | 303550 | | 80233.3 | 27451 | 49 | 4197 | 9 | 187467 | 103.7 | 331 | | |
| SPUD 16 STATE #007H | 3001536078 | 32.3099632 | -103.995636 | 16 | 23S | 29E | D | 910N | 810W | EDDY | NM | DELAWARE-BRUSHY CA | 8/29/2008 | 6.25 | 273399 | | 77650.2 | 20696 | 44 | 3301 | 6.5 | 168200 | 85 | 454 | 440 | |
| LAGUNA SALADO 22 FEDERAL #C | 3001537371 | 32.2946129 | -103.9730835 | 22 | 23S | 29E | C | 1172N | 2510W | EDDY | NM | DELAWARE-BRUSHY CA | 7/14/2011 | 7 | 279275 | | 78992.3 | 21728 | 25 | 3407 | 6.5 | 172189 | 183 | 177 | 250 | |
| REMUDA BASIN UNIT #001 | 3001503691 | 32.2886238 | -103.9360428 | 24 | 23S | 29E | J | 1980S | 1980E | EDDY | NM | DEVONIAN | | | 64582 | | | | | | | 37500 | 610 | 1700 | | |
| REMUDA BASIN UNIT #001 | 3001503691 | 32.2886238 | -103.9360428 | 24 | 23S | 29E | J | 1980S | 1980E | EDDY | NM | DEVONIAN | | | 56922 | | | | | | | 29000 | 1740 | 4980 | | |