

RECEIVED: <u>10/25/2018</u>	REVIEWER:	TYPE: <u>SWD</u>	APP NO: <u>PMAM 18244 39234</u>
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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, LLC OGRID Number: 308339  
 Well Name: Czervik SWD #1 API: \_\_\_\_\_  
 Pool: SWD Pool 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 holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

**FOR OCD ONLY**

Notice Complete

Application Content Complete

11/5/2018  
SWD

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.

October 17, 2018

Ramona Hovey  
Print or Type Name

\_\_\_\_\_  
Date

(512) 600-1777  
Phone Number

Ramona K Hovey  
Signature

ramona@lonquist.com  
e-mail Address

## LONQUIST &amp; 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

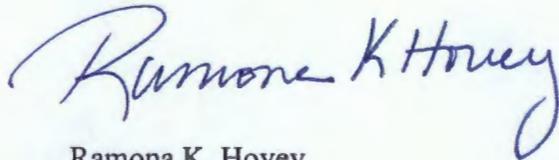
**RE: CZERVIK SWD NO. 1 AUTHORIZATION TO INJECT**

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.

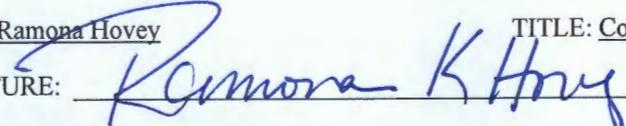
Any questions should be directed towards OWL SWD Operating, LLC's agent Lonquist & Co., LLC.

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.

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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. 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* \_\_\_\_\_ ft<sup>3</sup>

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* \_\_\_\_\_ ft<sup>3</sup>

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* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: surface

Method Determined: circulation

Production Liner

Hole Size: 8-1/2"

Casing Size: 7-5/8"

Cemented with: 315 sks

*or* \_\_\_\_\_ ft<sup>3</sup>

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

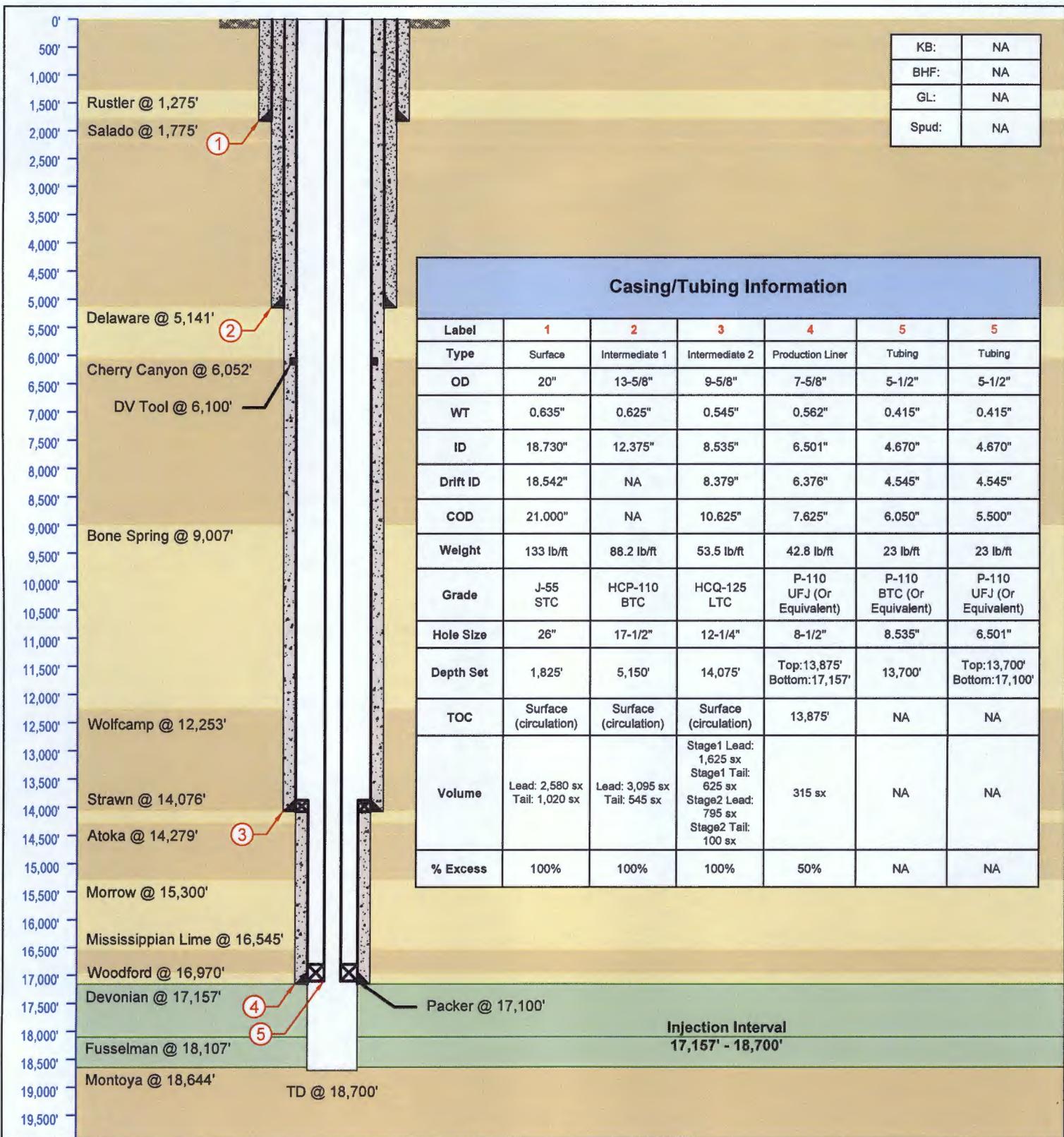
3. Name of Field or Pool (if applicable): \_\_\_\_\_

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:

<b>Formation</b>	<b>Depth</b>
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'



<b>LONQUIST &amp; CO. LLC</b> PETROLEUM ENGINEERS   ENERGY ADVISORS HOUSTON   CALGARY AUSTIN   WICHITA   DENVER	Oilfield Water Logistics	Czerwik SWD No. 1	
	Country: USA	State/Province: New Mexico	County/Parish: Eddy
Location:	Site:	Survey:	
API No: NA	Field:	Well Type/Status: SWD / New Drill	
Texas License F-9147	RRC District No:	Project No: 1792	Date: 10/9/2018
12912 Hill Country Blvd. Ste F-200 Austin, Texas 78738 Tel: 512.732.9812 Fax: 512.732.9816	Drawn: WHG	Reviewed: RH	Approved: SLP
	Rev No: 1	Notes:	

**OWL SWD Operating, LLC.**

**Czervik SWD No. 1**

**FORM C-108 Supplemental Information**

III. Well Data

A. Wellbore Information

1.

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

2.

a. Wellbore Description

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

b. Cementing Program

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

3. Tubing Description

Tubing		
<b>OD</b>	5-1/2"	5-1/2"
<b>WT</b>	0.415"	0.415"
<b>ID</b>	4.670"	4.670"
<b>Drift ID</b>	4.545"	4.545"
<b>COD</b>	6.050"	5.500"
<b>Weight</b>	23 lb/ft	23 lb/ft
<b>Grade</b>	P-110 BTC (Or Equivalent)	P-110 UFJ (Or Equivalent)
<b>Depth Set</b>	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

<b>Formation</b>	<b>Depth</b>
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

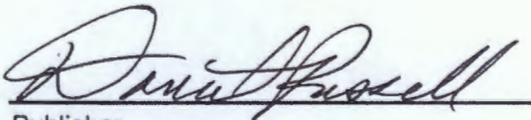
Based on the available engineering and geologic data we find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

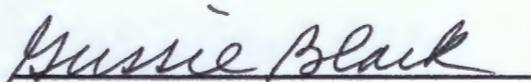
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

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



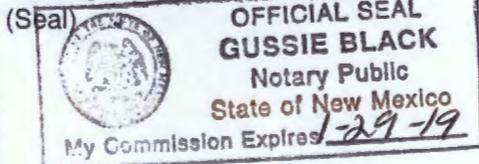
Publisher

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



Business Manager

My commission expires  
January 29, 2019



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			
<a href="#">614438</a>	<a href="#">COWNF</a>	<a href="#">2017-09-25</a>	CHG	PRC	C 02277	T	0	0	
<a href="#">439865</a>	<a href="#">COWNF</a>	<a href="#">2009-07-29</a>	CHG	PRC	C 02277	T	0	0	
<a href="#">234017</a>	<a href="#">COWNF</a>	<a href="#">2002-06-25</a>	CHG	PRC	C 02277	T	0	0	
<a href="#">169243</a>	<a href="#">ADM</a>	<a href="#">1999-10-29</a>	PMT	MTR	C 02277	T	0	48.4	
<a href="#">198402</a>	<a href="#">DCL</a>	<a href="#">1986-04-07</a>	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
<a href="#">C 02277</a>	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



**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			
<a href="#">get images</a> 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
<a href="#">C 02279</a>	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	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
		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	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.	19. Proposed Depth 18,700'	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)

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>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).</li> </ul> | <ul style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification.</li> <li>6. Such other site specific information and/or plans as may be requested by the BLM.</li> </ul> |
|---|---|

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		

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 connects this information to an 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, 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

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

<sup>10</sup> Surface Location

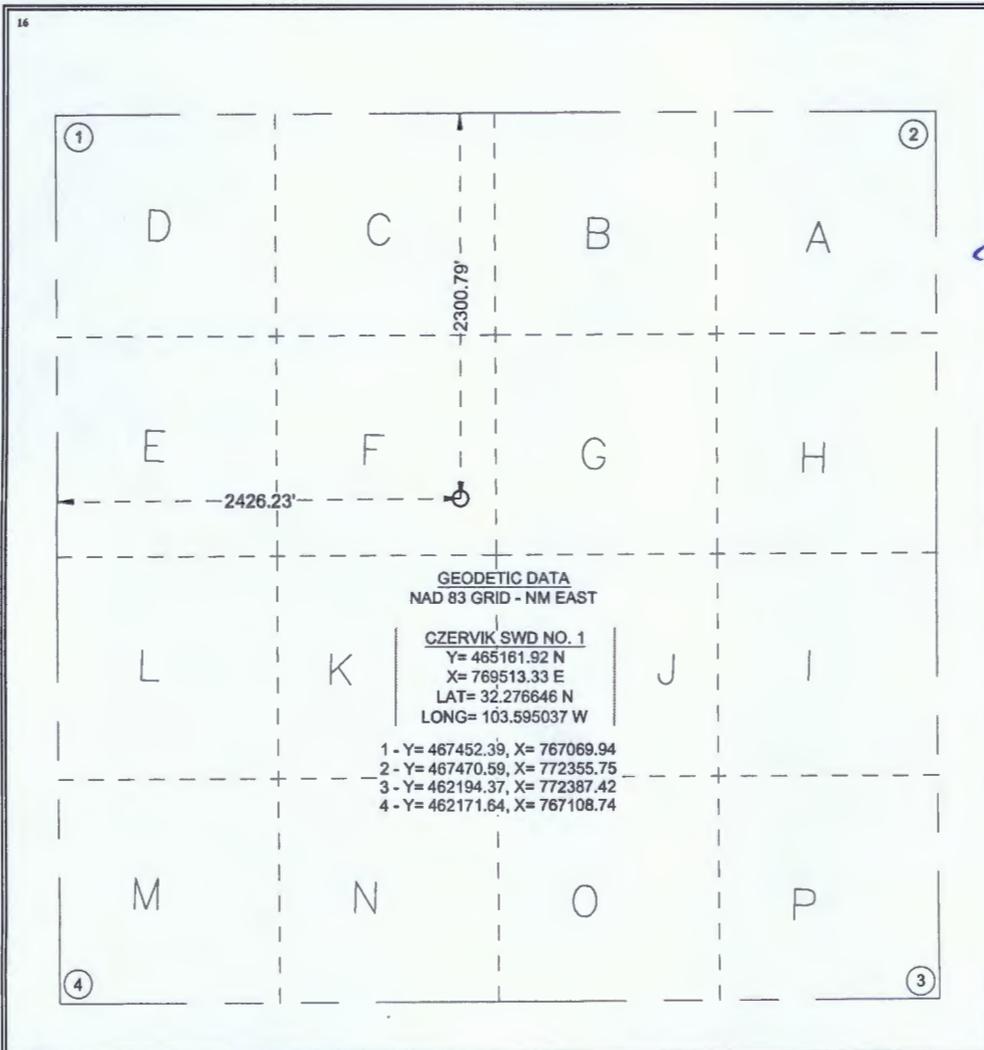
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>F</b>	<b>29</b>	<b>23 S</b>	<b>33 E</b>		<b>2301</b>	<b>NORTH</b>	<b>2426</b>	<b>WEST</b>	<b>LEA</b>

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



**<sup>17</sup> OPERATOR CERTIFICATION**

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.

*Ramona K. Honey* 10/17/18  
Signature Date

RAMONA K. HONEY Date

ramona@lonquist.com Date

Email Address

**<sup>18</sup> SURVEYOR CERTIFICATION**

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.

Date of Survey Date

Signature and Seal of Professional Surveyor:

**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**

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

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

<sup>10</sup> 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

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

**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= 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

**<sup>17</sup> OPERATOR CERTIFICATION**

*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.*

Ramona Hovey 10/18/19  
 Signature \_\_\_\_\_ Date \_\_\_\_\_  
 RAMONA HOVEY  
 Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
 ramona@lonquist.com  
 Email Address \_\_\_\_\_ Date \_\_\_\_\_

**<sup>18</sup> SURVEYOR CERTIFICATION**

*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.*

\_\_\_\_\_  
 Date of Survey \_\_\_\_\_  
 Signature and Seal of Professional Surveyor: \_\_\_\_\_

JEFFREY E. HOVEY  
 20559  
 PROFESSIONAL SURVEYOR

Certificate Number  
20559

## **PROOF OF NOTICES SENT**

**Czervik SWD #1 Notice List**

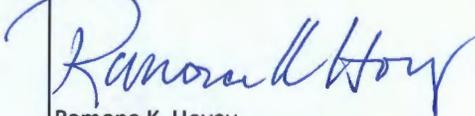
**Lea County, NM**

**OWL SWD Operating, LLC**

S/T/R	UNIT	REGULATORY	MAILING ADDRESS
		<b>SURFACE OWNER</b>	<b>MAILING ADDRESS</b>
		BUREAU OF LAND MANAGEMENT	310 DINOSAUR TRAIL SANTA FE, NM 87502
		<b>MINERAL LESSEE</b>	<b>MAILING ADDRESS</b>
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
		<b>OFFSET OPERATORS</b>	<b>MAILING ADDRESS</b>
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
		<b>OTHER PARTIES</b>	<b>MAILING ADDRESS</b>

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 (hardcopy) \$ \_\_\_\_\_

Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

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*1762 Cervik  
New Mex  
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  Agent  Addressee

*X*

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  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

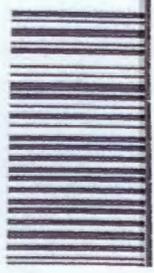
PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

Bureau of Land Management  
310 C  
Santa Fe, NM

**LONQUIST & CO**  
PETROLEUM ENGINEERS  
HOUSTON / CALGA  
AUSTIN / WICHITA / DE  
ENERGY ADVISORS

7016 0600 0000



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<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	\$ _____

Postmark  
Here

*1762 Czerwik*  
*Chen*  
*Eady*  
*dy*

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

6490 7662 0000 01

**SENDER: COMPLETE THIS SECTION**

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- 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



2. Article Number (Transfer from service label)  
 7016 0600 0000 2971 0649

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  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
- |  |   |
|--|---|
| <input type="checkbox"/> Adult Signature                         | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery     | <input type="checkbox"/> Registered Mail™                           |
| <input type="checkbox"/> Certified Mail®                         | <input type="checkbox"/> Registered Mail Restricted Delivery        |
| <input type="checkbox"/> Certified Mail Restricted Delivery      | <input type="checkbox"/> Return Receipt for Merchandise             |
| <input type="checkbox"/> Collect on Delivery                     | <input type="checkbox"/> Signature Confirmation™                    |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |

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

Domestic Return Receipt

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

**LONGUIST & CO. LLC**  
 PETROLEUM ENGINEERS  
 ENERGY ADVISORS  
 HOUSTON | CALGARY  
 AUSTIN | WICHITA | DENVER

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

7016 0600 0000 2971 0663

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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	

Postmark Here  
*1762 Gilvick head Eddy*  
*09*

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 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	<input type="checkbox"/> Agent
<b>X</b>	<input type="checkbox"/> 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 Gilvick head Eddy*

3. Service Type	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Registered Mail™
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Collect on Delivery Restricted Delivery	
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Mail Restricted Delivery	

Domestic Return Receipt

B:



7016 0600

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9590 1262 0000 0090 9102  
 7016 0600 0000 2971 0656

Certified Mail Fee \$ \_\_\_\_\_  
 Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (hardcopy) \$ \_\_\_\_\_  
 Return Receipt (electronic) \$ \_\_\_\_\_  
 Certified Mail Restricted Delivery \$ \_\_\_\_\_  
 Adult Signature Required \$ \_\_\_\_\_  
 Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postmark  
 Here

*1762 Ceywick  
 near  
 Caddy  
 City*

COG Operating , LLC  
 550 W Texas  
 Midland, Texas 79701

PS Form 3800, April 2015 PSN 7500-102-000-9047 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 Ceywick near Caddy*

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Mail Restricted Delivery (0)	

Domestic Return Receipt

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

COG O  
 550  
 Midland,

7016 0600 0000 2971

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

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- Adult Signature Restricted Delivery

Postmark  
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*1762 Egnich  
near  
Eddy*

Postage

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

0290 1262 0000 0090 9102

**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 Egnich 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 (M)

Domestic Return Receipt

Devon Energy F  
20 North  
Oklahoma C

HOUSTON | CALGARY  
AUSTIN | WICHITA | DENVER

**LONQUIST & CO. LLC**  
PETROLEUM  
ENGINEERS  
ENERGY  
ADVISORS

7016 0600 0000 2971



**U.S. Postal Service™  
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Domestic Mail Only

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**OFFICIAL USE**

7990 1262 0000 0090 9102

Certified Mail Fee \$ \_\_\_\_\_  
 Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (hardcopy) \$ \_\_\_\_\_  
 Return Receipt (electronic) \$ \_\_\_\_\_  
 Certified Mail Restricted Delivery \$ \_\_\_\_\_  
 Adult Signature Required \$ \_\_\_\_\_  
 Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postmark  
Here

*1762 Cyenik  
lea Eddy*

Postage \$ \_\_\_\_\_  
 Total Postage and Fees \$ \_\_\_\_\_

Sent To *EOG Resources Inc*  
 Street and Apt. No. or P.O. Box No. *P.O. Box 2267*  
 City, State, ZIP+4® *Midland, TX 79702*

**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

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 Cyenik lea 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  
 Mail Restricted Delivery

Domestic Return Receipt

**LONQUIST & CO. LLC**  
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 ENERGY ADVISORS  
 HOUSTON | CALGARY  
 AUSTIN | WICHITA | DENVER

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

4990 1892 0000 0090 9107



EOG Y Resc  
104 S. 4  
Artesia, New M

**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 Y Resources, Inc.  
104 S. 4<sup>th</sup> Street  
Artesia, New Mexico 88210

*1762 Gerald*  
*Dean*  
*Eddy*  
*Chy*

EOG Y Resources, Inc.  
104 S. 4<sup>th</sup> Street  
Artesia, New Mexico 88210

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent

B. Received by (Printed Name)  Addressee

C. Date of Delivery

D. Is delivery address different from here?  Yes  No  
If YES, enter delivery address below

*1762 Gerald Dean Eddy*

3. Service Type

Adult Signature Restricted Delivery

Priority Mail Express

Registered Mail

Registered Mail Restricted Delivery

Restricted Delivery

Return Receipt for Merchandise

Signature Confirmation

Restricted Delivery

Domestic Return Receipt

4990 1892 0000 0090 9107

7016 0600 0000 2971 0700

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

EOG  
11  
Artesia

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

**SENDER: COMPLETE THIS**

- 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

**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 CHERVIL Way Elly

1. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation®
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Mail	
<input type="checkbox"/> Mail Restricted Delivery	
<input checked="" type="checkbox"/> X	

2. Article Number (Transfer from service label)  
7016 0600 0000 2971 0700

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

Domestic Return Receipt



PS Form 3811, July 2015 PSN 7530-02-000-9053  
Confidential Mail Registered Delivery  
Return Receipt for Merchandise  
Signature Confirmation

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

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ENGINEERS

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ADVISORS

WICHITA  
CALGARY

[www.lonquist.com](http://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**

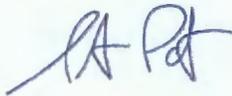
To Whom It May Concern:

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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](mailto:steve@lonquist.com)

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October 10, 2018

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

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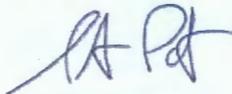
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[steve@lonquist.com](mailto:steve@lonquist.com)

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October 10, 2018

COG OPERATING LLC  
550 W TEXAS  
MIDLAND, TX 79701

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Lonquist & Co., LLC

(512) 600-1774  
[steve@lonquist.com](mailto:steve@lonquist.com)

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October 10, 2018

CONOCOPHILLIPS CO  
PO BOX 7500  
BARTLESVILLE, OK 74005

**Subject: Czervik SWD No. 1 Authorization to Inject**

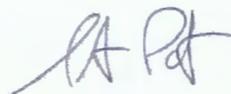
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Stephen L. Pattee, P.G.  
Regulatory Manager  
Lonquist & Co., LLC

(512) 600-1774  
[steve@lonquist.com](mailto:steve@lonquist.com)

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WICHITA  
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[www.lonquist.com](http://www.lonquist.com)

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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Regulatory Manager  
Lonquist & Co., LLC

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[steve@lonquist.com](mailto:steve@lonquist.com)

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CALGARY

[www.lonquist.com](http://www.lonquist.com)

October 10, 2018

EOG RESOURCES INC  
PO BOX 2267  
MIDLAND, TX 79702

**Subject: Czervik SWD No. 1 Authorization to Inject**

To Whom It May Concern:

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[steve@lonquist.com](mailto:steve@lonquist.com)

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[www.lonquist.com](http://www.lonquist.com)

October 10, 2018

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

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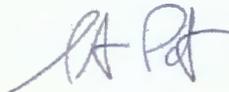
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Stephen L. Pattee, P.G.  
Regulatory Manager  
Lonquist & Co., LLC

(512) 600-1774  
[steve@lonquist.com](mailto:steve@lonquist.com)

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ENERGY  
ADVISORS

WICHITA  
CALGARY

[www.lonquist.com](http://www.lonquist.com)

October 10, 2018

OXY USA INC  
PO BOX 4294  
HOUSTON, TX 77210

**Subject: Czervik SWD No. 1 Authorization to Inject**

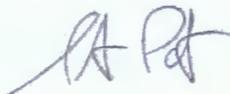
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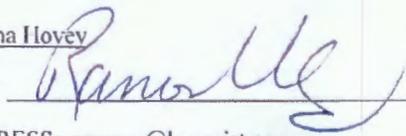
Regards,



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

(512) 600-1774  
[steve@lonquist.com](mailto: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.

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 \_\_\_\_\_ ft<sup>3</sup>

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 \_\_\_\_\_ ft<sup>3</sup>

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 \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: surface

Method Determined: circulation

Production Liner

Hole Size: 8-1/2"

Casing Size: 7-5/8"

Cemented with: 315 sks

*or* \_\_\_\_\_ ft<sup>3</sup>

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:

<b>Formation</b>	<b>Depth</b>
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	
<b>Comparison of Proposed to Minimum Required Cement Volumes</b>									
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 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
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 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
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	7 5/8	Liner w/top @	Design Factors			LINER			
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 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
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

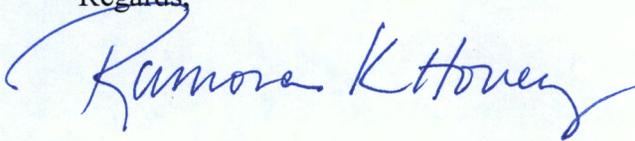
**RE: CZERVIK SWD NO. 1 AUTHORIZATION TO INJECT; PROOF OF NOTICE**

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](mailto:ramona@lonquist.com)

**Czervik SWD #1 Notice List**

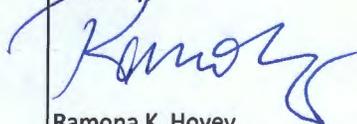
**Lea County, NM**

**OWL SWD Operating, LLC**

<b>S/T/R</b>	<b>UNIT</b>	<b>REGULATORY</b>	<b>MAILING ADDRESS</b>
		<b>SURFACE OWNER</b>	<b>MAILING ADDRESS</b>
		BUREAU OF LAND MANAGEMENT	310 DINOSAUR TRAIL SANTA FE, NM 87502
		<b>MINERAL LESSEE</b>	<b>MAILING ADDRESS</b>
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
		<b>OFFSET OPERATORS</b>	<b>MAILING ADDRESS</b>
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
		<b>OTHER PARTIES</b>	<b>MAILING ADDRESS</b>

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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Adult Signature Restricted Delivery \$ \_\_\_\_\_

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Here

*1762 Cervik  
New Mex  
Eddy*

Postage

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.
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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

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*1762 Cervik*

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0) Restricted Delivery

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 Santa Fe, ↑

7016 0600 0000



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1762 Czerwik  
Eben  
Cady  
Okl

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

6490 TL62 0000 01

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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

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 Addressee

B. Received by (Printed Name) C. Date of Delivery

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1762 Czerwik

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  - Signature Confirmation™
  - Signature Confirmation Restricted Delivery
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**LONQUIST & CO. LLC**  
 PETROLEUM ENGINEERS  
 ENERGY ADVISORS  
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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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 Adult Signature Restricted Delivery \$ \_\_\_\_\_  
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 near Eddy  
 OK*

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

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



9590 9402 3572 7305 4563 97

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*1762 Coville near Eddy*

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Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

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*1762 Czerwik  
 near  
 Caddy  
 City*

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**

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COG Operating , LLC  
 550 W Texas  
 Midland, Texas 79701



9590 9402 3572 7305 4563 80

2. Article Number (Transfer from service label)

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

A. Signature  Agent  
 Addressee

B. Received by (Printed Name) \_\_\_\_\_ C. Date of Delivery \_\_\_\_\_

D. Is delivery address different from item 1?  Yes  
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*1762 Czerwik near Caddy*

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COG O  
 550  
 Midland,

HOUSTON | CALGARY  
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*1762 Egnich  
lea  
Eddy*

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

0290 7262 0000 2971 0670

**SENDER: COMPLETE THIS**

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1. Article Addressed to:

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



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2. Article Number (Transfer from service label)

7016 0600 0000 2971 0670

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

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Agent  
 Addressee

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 If YES, enter delivery address below:  No

*1762 Egnich lea Eddy*

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 Certified Mail®  Return Receipt for Merchandise  
 Certified Mail Restricted Delivery  Signature Confirmation™  
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 Collect on Delivery Restricted Delivery  Insured Mail  
 Insured Mail Restricted Delivery (10)

Domestic Return Receipt

Devon Energy  
 20 North  
 Oklahoma City

HOUSTON | CALGARY  
 AUSTIN | WICHITA | DENVER

**LONQUIST & CO. LLC**  
 PETROLEUM  
 ENGINEERS  
 ENERGY  
 ADVISORS

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Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postmark  
 Here

Postage  
 \$ \_\_\_\_\_

Total Postage and Fees  
 \$ \_\_\_\_\_

1762 Cygnik  
 near Eddy

Sent To **EOG Resources Inc**  
 Street and Apt. No. or PO Box No. **P.O. Box 2267**  
 City, State, ZIP+4® **Midland, TX 79702**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

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



2. Article Number (Transfer from service label)  
**7016 0600 0000 2971 0687**

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

B. Received by (Printed Name)  Agent  
 Addressee

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Collect on Delivery  Signature Confirmation™

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

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

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

1690 4759 0000 2971 0694



EOG Y Resources  
104 S. 4<sup>th</sup>  
Artesia, New Mexico

**SENDER COMPLETE THIS SECTION**

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- Print your name and address on the reverse so that we can return the card to you.
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EOG Y Resources, Inc.  
104 S. 4<sup>th</sup> Street  
Artesia, New Mexico 88210

1762 General  
Eddy  
1762 General  
Eddy  
EOG Y Resources, Inc.  
104 S. 4<sup>th</sup> Street  
Artesia, New Mexico 88210

**COMPLETE THIS SECTION ON DELIVERY**

- A. Signature
  - Received by (Printed Name)
  - Agent
  - Addressee
- B. In delivery address different from Return Address?
  - Yes
  - No
- C. Date of Delivery

1762 General  
Eddy

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  - Registered Mail Restricted Delivery
  - Restricted Delivery
  - Restricted Delivery Merchandise
  - Restricted Delivery Signature Confirmation
  - Restricted Delivery

Domestic Return Receipt :

1690 4759 0000 2971 0694

7016 0600 0000 2971 0700

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

EOG  
11  
Artesia,

OXY USA, Inc.  
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Houston, Texas 77210

**SENDER: COMPLETE THIS**

- 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.

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Houston, Texas 77210

X  
 Agent  
 Addressee  
 B. Received by (Printed Name) C. Date of Delivery

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

1762 CREER VIK Way Elly

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- Adult Signature
  - Adult Signature Restricted Delivery
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2. Article Number (Transfer from service label)  
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Domestic Return Receipt

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ENGINEERS**

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Official Mail Restricted Delivery  
 Return Receipt for Merchandise  
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 Signature Confirmation Restricted Delivery



## 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.  
The estimated shipping charge may be different than the actual charges for your shipment. Differences may occur based on actual weight, dimensions, and other factors. Consult the applicable FedEx Service Guide or the FedEx Rate Sheets for details on how shipping charges are calculated.

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ADVISORS

WICHITA  
CALGARY

[www.lonquist.com](http://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**

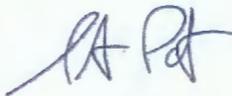
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Any questions should be directed towards OWL SWD Operating, LLC's agent, Lonquist & Co., LLC.

Regards,



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

(512) 600-1774  
[steve@lonquist.com](mailto: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**

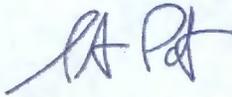
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October 10, 2018

COG OPERATING LLC  
550 W TEXAS  
MIDLAND, TX 79701

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October 10, 2018

CONOCOPHILLIPS CO  
PO BOX 7500  
BARTLESVILLE, OK 74005

**Subject: Czervik SWD No. 1 Authorization to Inject**

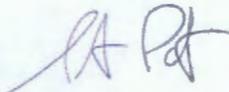
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CALGARY

[www.lonquist.com](http://www.lonquist.com)

October 10, 2018

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

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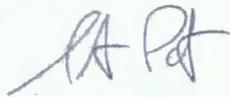
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[www.lonquist.com](http://www.lonquist.com)

October 10, 2018

EOG RESOURCES INC  
PO BOX 2267  
MIDLAND, TX 79702

**Subject: Czervik SWD No. 1 Authorization to Inject**

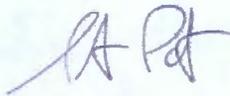
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[steve@lonquist.com](mailto:steve@lonquist.com)

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October 10, 2018

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

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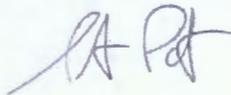
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October 10, 2018

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PO BOX 4294  
HOUSTON, TX 77210

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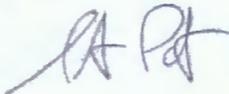
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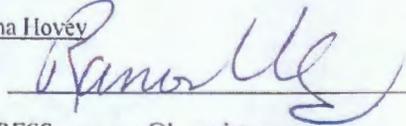
Regards,



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[steve@lonquist.com](mailto: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 \_\_\_\_\_ ft<sup>3</sup>

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 \_\_\_\_\_ ft<sup>3</sup>

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 \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: surface

Method Determined: circulation

Production Liner

Hole Size: 8-1/2"

Casing Size: 7-5/8"

Cemented with: 315 sks

*or* \_\_\_\_\_ ft<sup>3</sup>

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:

<b>Formation</b>	<b>Depth</b>
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"	6.502"
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'.

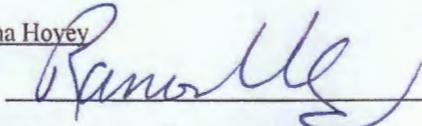
20	surface csg in a 26		inch hole.		Design Factors		SURFACE		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	133.00	J 55	ST&C	4.91	1.72	1.24	1,825	242,725	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,346							Tail Cmt	does not	circ to sfc.
							Totals:	1,825	242,725
<b>Comparison of Proposed to Minimum Required Cement Volumes</b>									
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 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
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 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
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									
7 5/8	Liner w/top @				Design Factors		LINER		
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 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
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?									

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.

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**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 LOCATIONUNIT LETTER  
FSECTION  
29TOWNSHIP  
23 SRANGE  
33 EWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 26"Casing Size: 20"Cemented with: 3,600 sks*or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: surfaceMethod Determined: circulationIntermediate Casing 1Hole Size: 17-1/2"Casing Size: 13-5/8"Cemented with: 3,640 sks*or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: surfaceMethod Determined: circulationIntermediate Casing 2Hole Size: 12-1/4"Casing Size: 9-5/8"Cemented with: 3,145 sks*or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: surfaceMethod Determined: circulation

Production Liner

Hole Size: 8-1/2"

Casing Size: 7-5/8"

Cemented with: 315 sks

*or* \_\_\_\_\_ ft<sup>3</sup>

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:

<b>Formation</b>	<b>Depth</b>
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	
<b>Lease Name</b>	Czervik SWD
<b>Well No.</b>	1
<b>Location</b>	Unit F S-29 T-23S R-33E
<b>Footage Location</b>	2,301' FNL & 2,426' FWL

2.

a. Wellbore Description

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

<b>Formation</b>	<b>Depth</b>
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

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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

Dear Customer:

The following is the proof-of-delivery for tracking number **773587066736**.

---

**Delivery Information:**

---

<b>Status:</b>	Delivered	<b>Delivery location:</b>	Santa Fe, NM
<b>Signed for by:</b>	ADURAN	<b>Delivery date:</b>	Nov 1, 2018 10:05
<b>Service type:</b>	FedEx Ground		
<b>Special Handling:</b>	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.

---

**Shipping Information:**

---

<b>Tracking number:</b>	773587066736	<b>Ship date:</b>	Oct 29, 2018
		<b>Weight:</b>	2.0 lbs/0.9 kg

**Recipient:**  
SANTA FE, NM US

**Shipper:**  
HOUSTON, TX US

**Reference**

1645-Cedar Canyon#1 Legal Noti

Thank you for choosing FedEx.

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Tracking Number: 7016060000029710663

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MONDAY

22 OCTOBER 2018 See Product Information v

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October 22, 2018 at 7:36 am  
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BARTLESVILLE, OK 74003

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- Product Information v

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Tracking Number: 7016060000029710700

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October 24, 2018 at 4:20 am  
Delivered, To Agent  
HOUSTON, TX 77210

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Tracking Number: 7016060000029710670

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MONDAY

22 OCTOBER 2018 See Product Information v

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October 22, 2018 at 9:00 am  
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OKLAHOMA CITY, OK 73102

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Feedback

Tracking Number: 7016060000029710656

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Your item was delivered to an individual at the address at 2:56 pm on October 20, 2018 in MIDLAND, TX 79701.

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October 20, 2018 at 2:56 pm  
Delivered, Left with Individual  
MIDLAND, TX 79701

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Tracking Number: 7016060000029710649

Remove X

Your item was delivered to an individual at the address at 10:42 am on October 22, 2018 in TULSA, OK 74103.

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October 22, 2018 at 10:42 am  
Delivered, Left with Individual  
TULSA, OK 74103

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See More 

Tracking Number: 7016060000029710694

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**MONDAY**

**22** OCTOBER  
2018 

See Product Information 

 **Delivered**

October 22, 2018 at 8:16 am  
Delivered, Left with Individual  
ARTESIA, NM 88210

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Tracking Number: 7016060000029710687

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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.

 **Delivered**

October 22, 2018 at 7:40 am  
Delivered, Individual Picked Up at Postal Facility  
MIDLAND, TX 79702

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[FAQs \(https://www.usps.com/faqs/uspstracking-faqs.htm\)](https://www.usps.com/faqs/uspstracking-faqs.htm)

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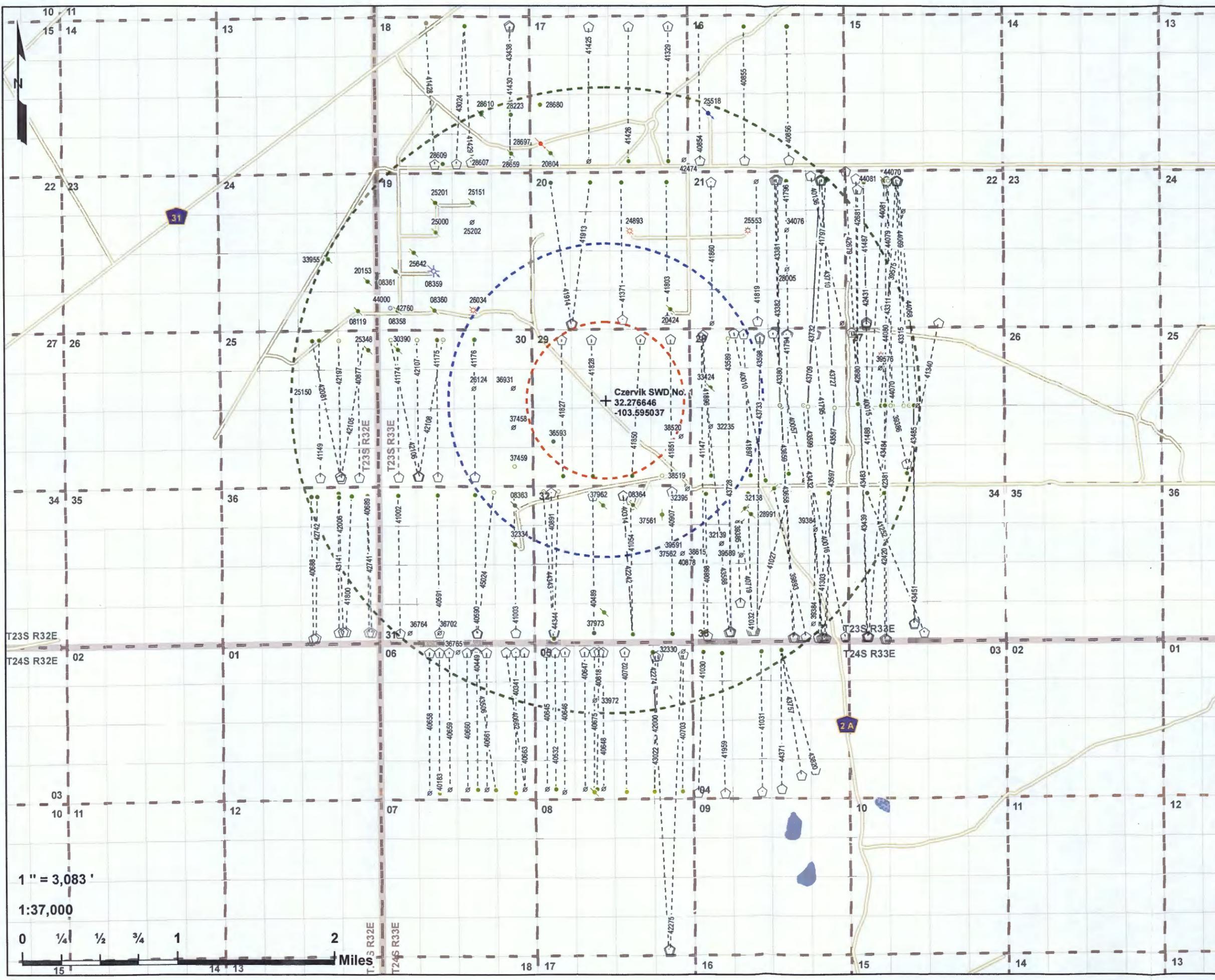
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\*NOTE: Black and white (grayscale) images show the outside, front of letter-sized envelopes and mailpieces that are processed through USPS automated equipment.

Feedback



**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)



1" = 3,083'  
 1:37,000  
 0 1/4 1/2 3/4 1 2 Miles

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

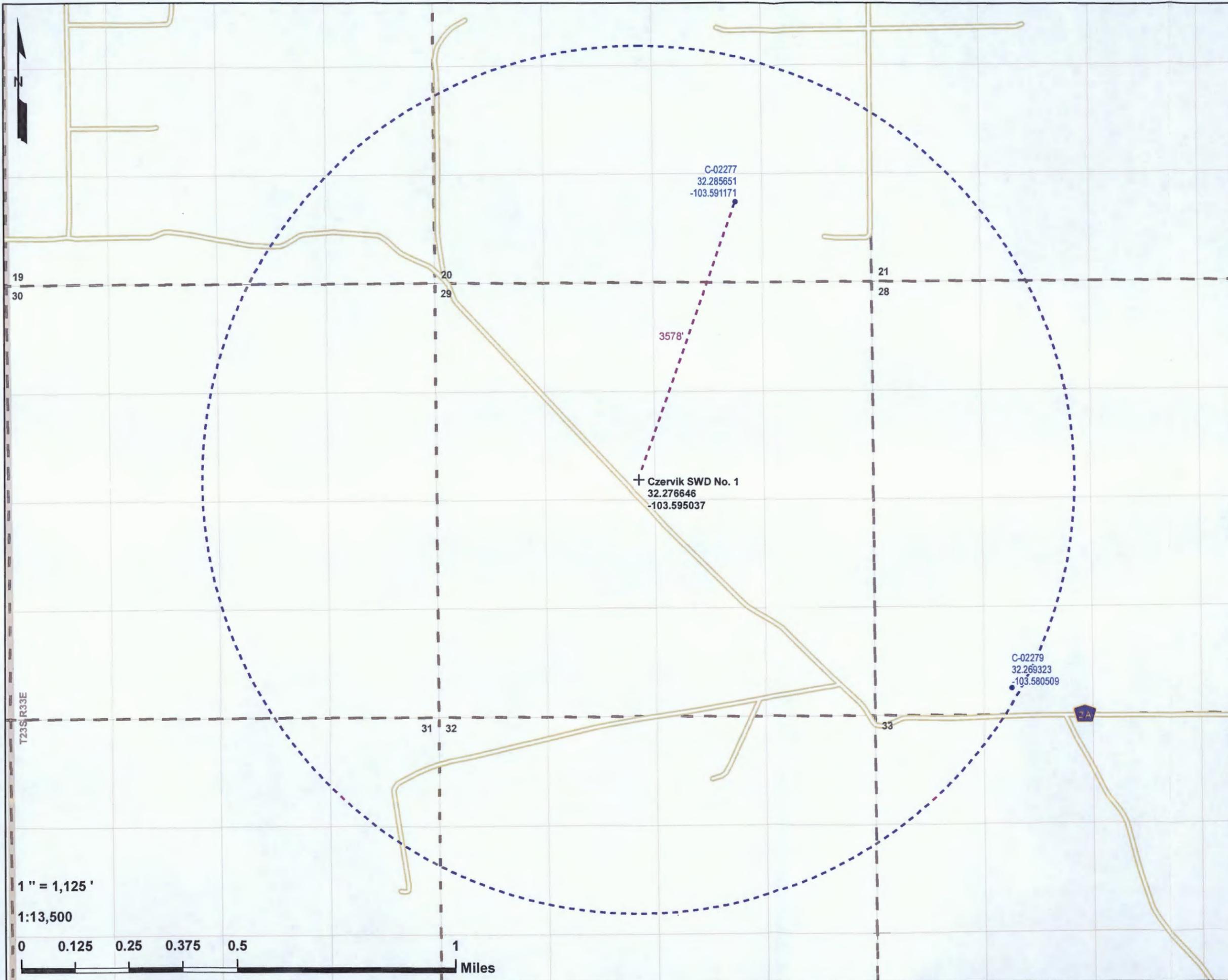
**LONQUIST & CO. LLC**

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)



C-02277  
32.285651  
-103.591171

✚ Czervik SWD No. 1  
32.276646  
-103.595037

3578'

C-02279  
32.269323  
-103.580509

19  
30

20  
29

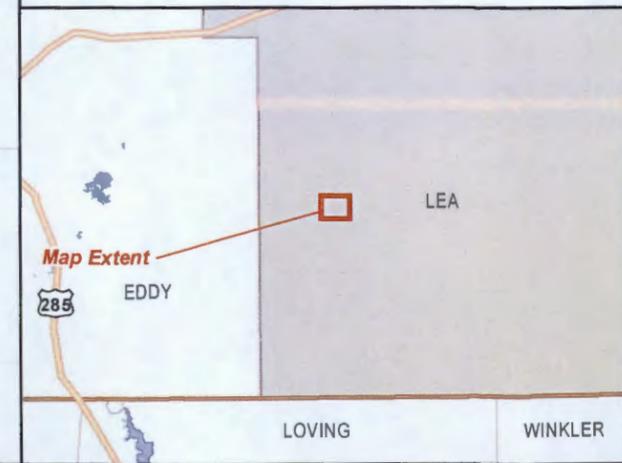
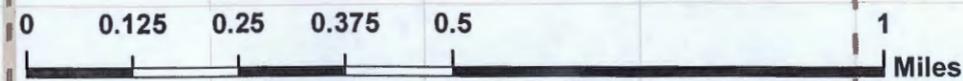
21  
28

31 32

33

T23S, R33E

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



Map Extent  
285

LEA

EDDY

LOVING

WINKLER

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 Lessees**  
**Oilfield Water Logistics**  
**Lea County, NM**

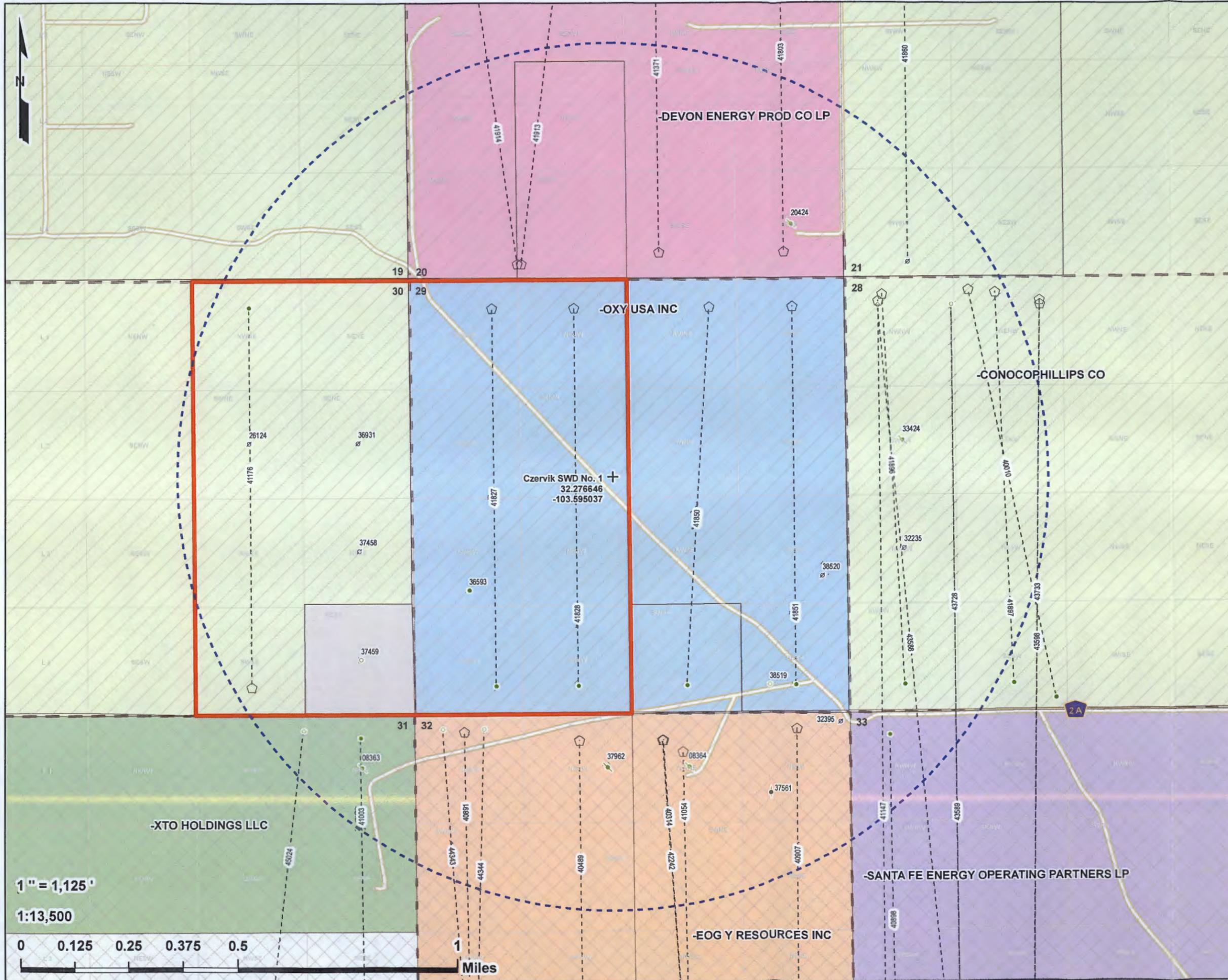
PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

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)



1" = 1,125'  
 1:13,500  
 0 0.125 0.25 0.375 0.5 1 Miles

**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					0	775		84981	381	600	
CORRAL DRAW AQH FEDERAL #001	3001529396	32.2166748	-103.9455948	13	24S	29E	L	2310S	330W	EDDY	NM	BONE SPRING	12/27/2000	5.59					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 #001	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 #001	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 #001	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 #001	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 #001	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 #001	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 #001	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 #001	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 #001	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 #001	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	