

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - 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

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **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.

Stephen L. Pattee, P.G.

Print or Type Name

Signature

Engineer - Agent of OWL

Title

05-03-17

Date

steve@lonquist.com

e-mail Address

*Suspended
05-08-2017
Meet with manager*

*-SWD -1687
-OWL SWD operating, LLC
well
-Brinninstool SWD #4
30-025-Pending
Pool
-SWD, Devonian
96100*

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

2017 MAY -8

May 3, 2017

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: BRININSTOOL SWD NO. 4 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 Brininstool SWD No. 4. In addition, Forms C-101 and C-102 have also 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,



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

(512) 600-1774
steve@lonquist.com

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address OWL SWD Operating, LLC 8214 Westchester Drive, Suite 850, Dallas, TX 75255		² OGRID Number 308339
		³ API Number 30-025-
⁴ Property Code	⁵ Property Name Briminstool SWD	⁶ Well No. 4

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	26	23S	33E		330	South	2350	East	Lea

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

⁹ Pool Information

Pool Name SWD; Silurian-Devonian	Pool Code 96101
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Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type Private	¹⁵ Ground Level Elevation 3,653'
¹⁶ Multiple N	¹⁷ Proposed Depth 18,500'	¹⁸ Formation Devonian	¹⁹ Contractor TBD	²⁰ Spud Date ASAP
Depth to Ground water 400'		Distance from nearest fresh water well 2,407'		Distance to nearest surface water +1 mi

☐ We will be using a closed-loop system in lieu of lined pits

²¹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	26"	20"	169.00 lb/ft	1,850'	3,315 sks	Surface
Intermediate	17.5"	13.625"	88.20 lb/ft	5,300'	1,760 sks	Surface
Production	12.25"	9.875"	62.80 lb/ft	12,200'	1,780 sks	Surface
Prod. Liner	8.5"	7"	38.00 lb/ft	12,000'-17,100'	800 sks	12,000'
Tubing	N/A	5"	18 lb/ft	0' - 17,000'	N/A	N/A

Casing/Cement Program: Additional Comments

See attached schematic.

²² Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Hydraulic/ Blinds, Pipe	5,000 psi	8,000 psi	TBD (Schaffer/Cameron)
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable Signature: Printed name: Stephen L. Pattee, P.G. Title: Consulting Engineer- Agent for OWL SWD Operating, LLC E-mail Address: steve@lonquist.com Date: 05/03/2017 Phone: 512-600-1774		OIL CONSERVATION DIVISION	
		Approved By:	
		Title:	
		Approved Date:	Expiration Date:
		Conditions of Approval Attached	

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Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
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Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

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		³ API Number 30-025-
⁴ Property Code	⁵ Property Name Brinnistool SWD	⁶ Well No. 4

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	26	23S	33E		330	South	2350	East	Lea

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

⁹ Pool Information

Pool Name SWD; Silurian-Devonian	Pool Code 96101
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Depth to Ground water 400'	Distance from nearest fresh water well 2,407'	Distance to nearest surface water +1 mi		

☐ We will be using a closed-loop system in lieu of lined pits

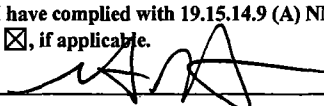
²¹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	26"	20"	169.00 lb/ft	1,850'	3,315 sks	Surface
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Prod. Liner	8.5"	7"	38.00 lb/ft	12,000'-17,100'	800 sks	12,000'
Tubing	N/A	5.50"	17 & 20 lb/ft	0'-17,000'	N/A	N/A

Casing/Cement Program: Additional Comments

See attached schematic.

²² Proposed Blowout Prevention Program

Type Double Hydraulic/ Blinds, Pipe	Working Pressure 5,000 psi	Test Pressure 8,000 psi	Manufacturer TBD (Schaffer/Cameron)
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature: 		OIL CONSERVATION DIVISION	
Printed name: Stephen L. Pattee, P.G.		Approved By:	
Title: Consulting Engineer- Agent for OWL SWD Operating, LLC		Title:	
E-mail Address: steve@lonquist.com		Approved Date: Expiration Date:	
Date: 05/01/2017	Phone: 512-600-1774	Conditions of Approval Attached	

See well bore diagram

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name BRINSTOOL SWD	
OGRID No.	Operator Name OILFIELD WATER LOGISTICS	
		Well Number 4
		Elevation 3653'

Surface Location									
UL or lot No. O	Section 26	Township 23-S	Range 33-E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 2350	East/West line EAST	County LEA

Bottom Hole Location If Different From Surface									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

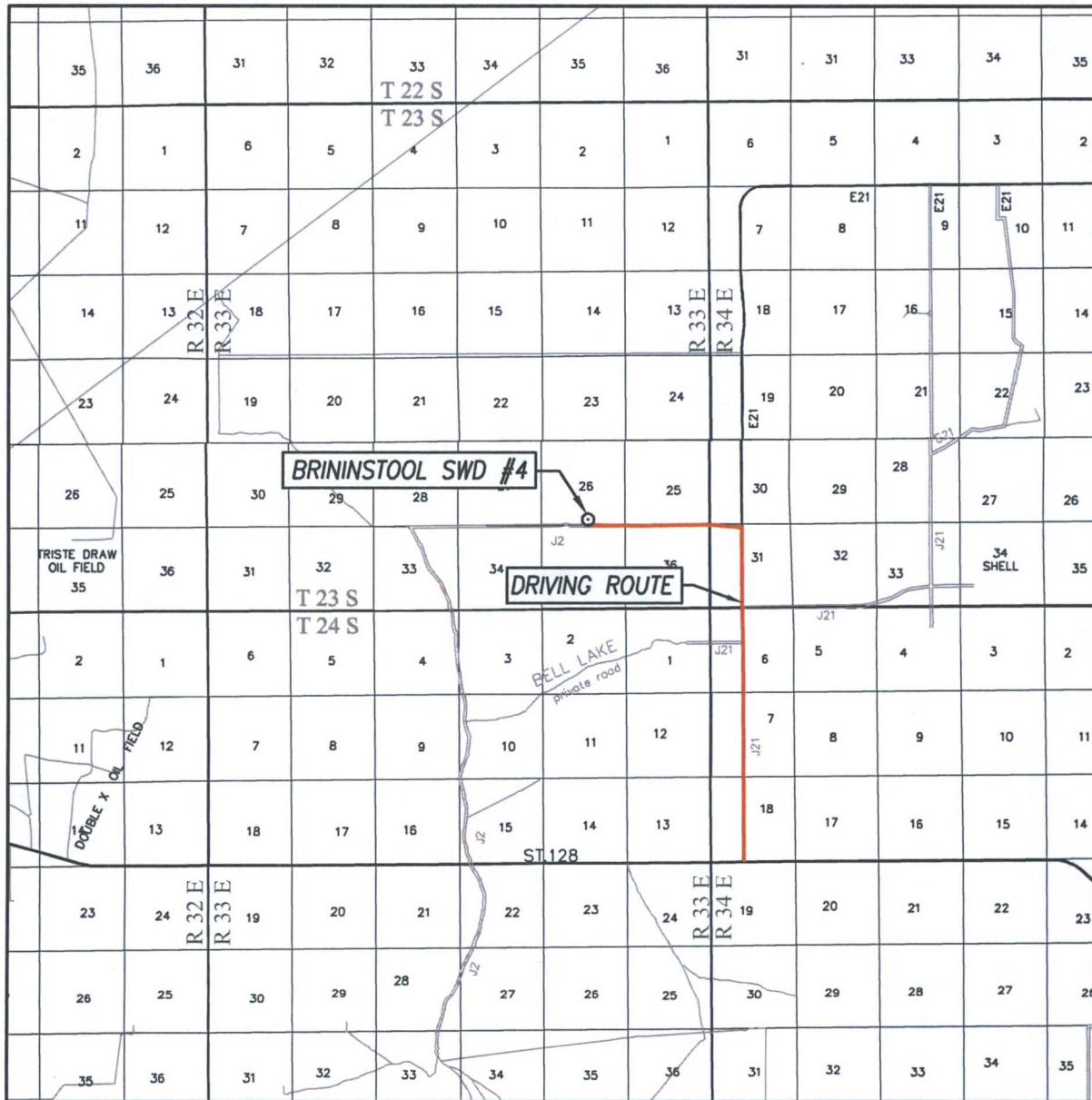
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y=462542.4 N
X=744680.1 E
LAT.=32.269165° N
LONG.=103.541719° W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y=462601.6 N
X=785863.8 E
LAT.=32.269289° N
LONG.=103.542198° W

OPERATOR CERTIFICATION	
<p><i>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p>	
<p></p> <p>Signature</p>	<p>05/01/17</p> <p>Date</p>
<p>Stephen Patter, P.G.</p> <p>Printed Name</p>	
<p>steve@longquist.com</p> <p>E-mail Address</p>	
SURVEYOR CERTIFICATION	
<p><i>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.</i></p>	
<p>Date of Survey: 02/17/2017</p> <p>Signature: </p> <p>Certificate Number: 3239</p> <p>Gary G. Eidson 12641 Ronald J. Eidson 3239</p>	
<p>ACK JWSC W.O.: 17.11.0097</p>	

VICINITY MAP



SCALE: 1" = 2 MILES

DRIVING ROUTE: SEE TOPOGRAPHICAL AND ACCESS ROAD MAP

SEC. 26 TWP. 23-S RGE. 33-E

SURVEY N.M.P.M.

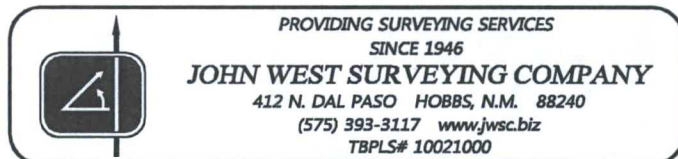
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 330' FSL & 2350' FEL

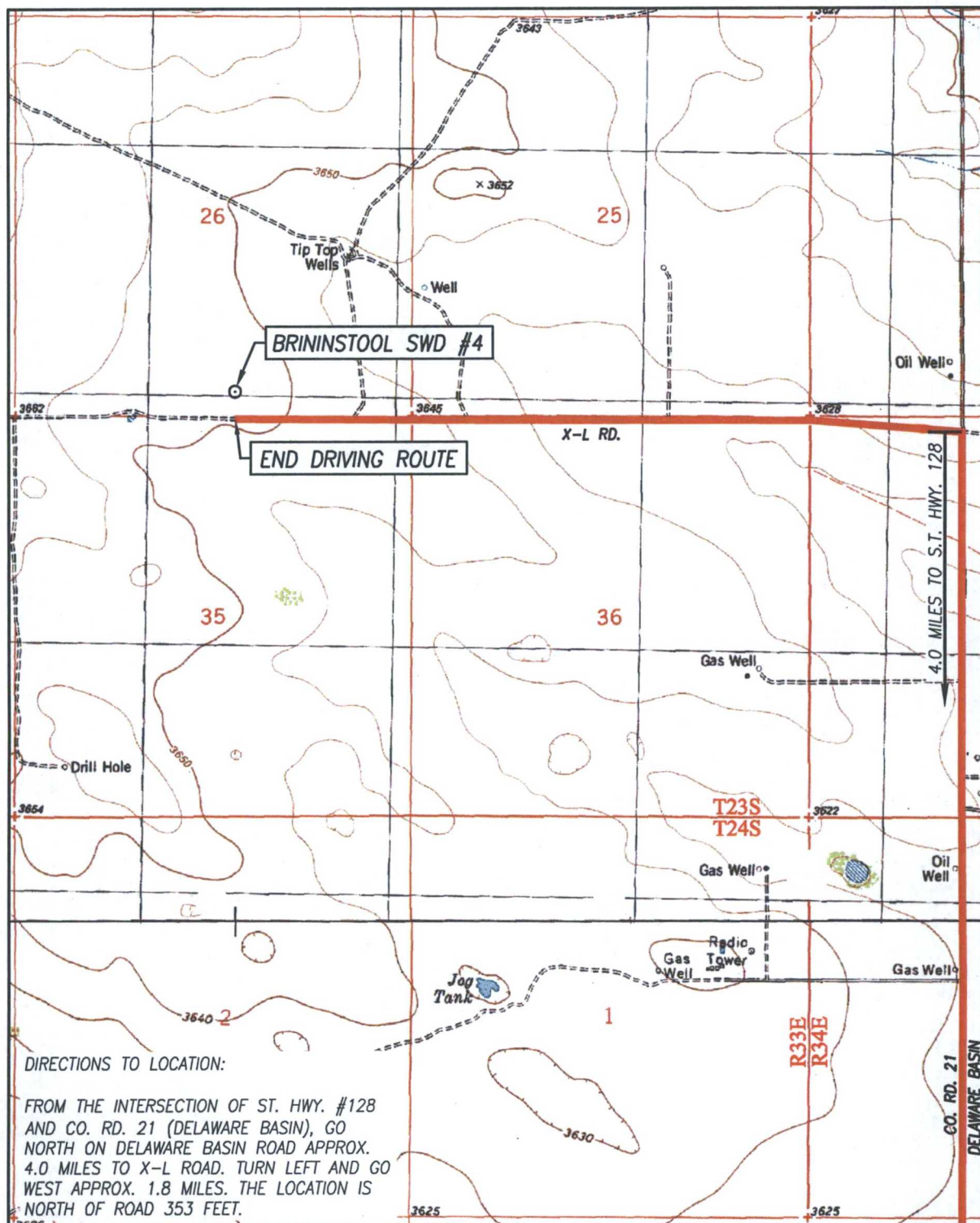
ELEVATION 3653'

OPERATOR OILFIELD WATER LOGISTICS

LEASE BRINSTOOL SWD



TOPOGRAPHIC AND ACCESS ROAD MAP



SEC. 26 TWP. 23-S RGE. 33-E
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 330' FSL & 2350' FEL
 ELEVATION 3653'
 OPERATOR OILFIELD WATER LOGISTICS
 LEASE BRINSTOOL SWD
 U.S.G.S. TOPOGRAPHIC MAP
 TIP TOP WELLS, N.M. SURVEY N.M.P.M.

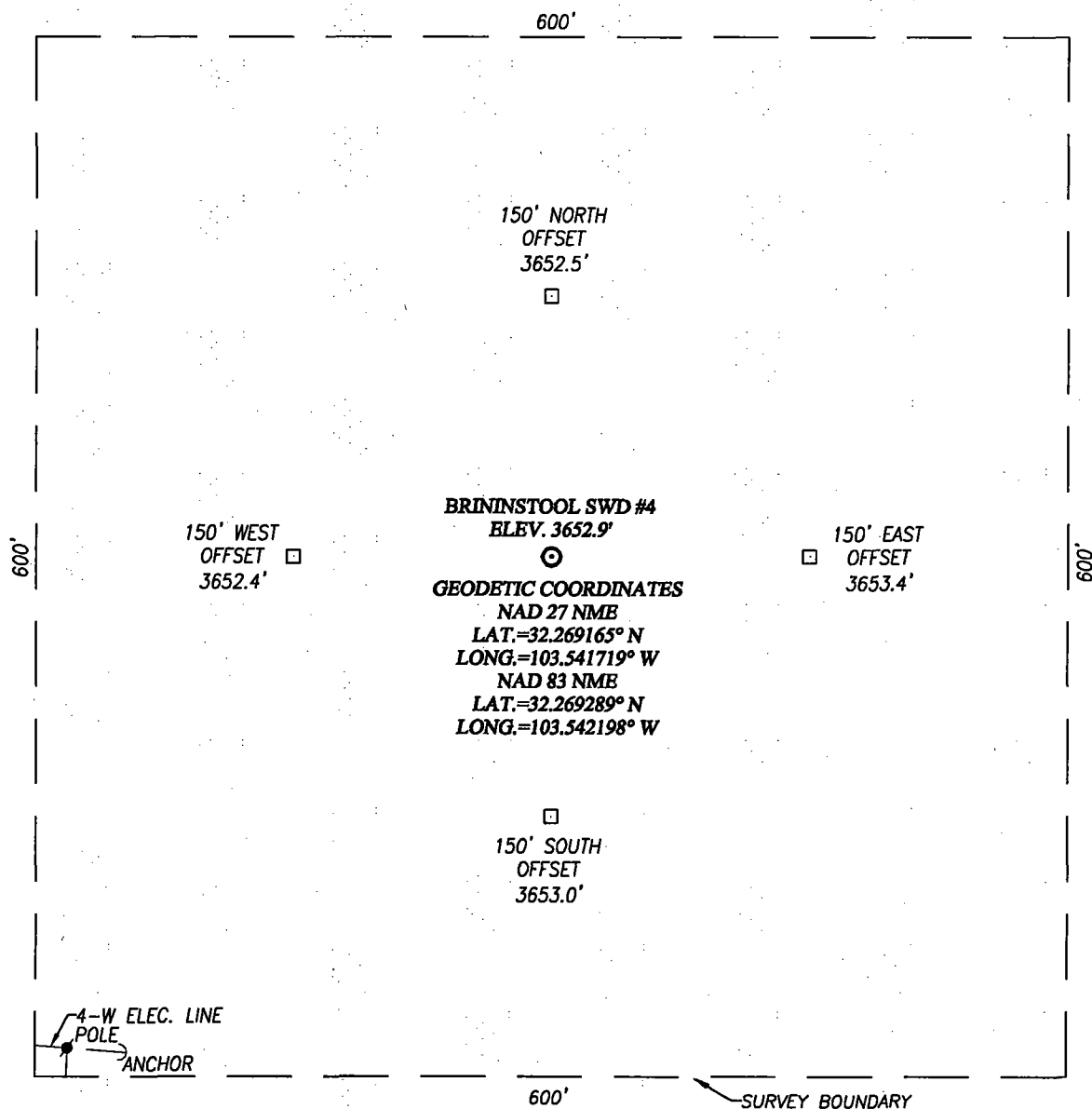
SCALE: 1" = 2000'

CONTOUR INTERVAL:
 TIP TOP WELLS, N.M. - 10'



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000

WELL SITE PLAN



NOTE:
SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP"
FOR PROPOSED ROAD LOCATION.

DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF ST. HWY. #128 AND CO. RD. 21
(DELAWARE BASIN), GO NORTH ON DELAWARE BASIN ROAD
APPROX. 4.0 MILES TO X-L ROAD. TURN LEFT AND GO WEST
APPROX. 1.8 MILES. THE LOCATION IS NORTH OF ROAD 353 FEET.

OILFIELD WATER LOGISTICS

**BRINSTOOL SWD #4 WELL LOCATED 330 FEET FROM THE
SOUTH LINE AND 2350 FEET FROM THE EAST LINE OF
SECTION 26, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

Survey Date: 2/14/17

CAD Date: 2/16/17

Drawn By: ACK


W.O. No.: 17110097

Rev: .

Rel. W.O.:

Sheet 1 of 1

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: Stephen L. Pattee, P.G. TITLE: Consulting Engineer – Agent for OWL
SIGNATURE:  DATE: 05/03/2017
E-MAIL ADDRESS: steve@lonquist.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

Side 1

INJECTION WELL DATA SHEET

OPERATOR: OWL SWD Operating, LLC

WELL NAME & NUMBER: Brininstool SWD No. 4

WELL LOCATION: 330' FSL & 2,350' FEL
FOOTAGE LOCATION

O
UNIT LETTER

26
SECTION

23S
TOWNSHIP

33E
RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26.000"

Casing Size: 20.00"

Cemented with: 3,315 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

1st Intermediate Casing

Hole Size: 17.500"

Casing Size: 13.625"

Cemented with: 1,760 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

2nd Intermediate Casing

Hole Size: 12.250"

Casing Size: 9.875"

Cemented with: 1,780 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Production Liner

Hole Size: 8.500"

Casing Size: 7.000"

Cemented with: 800 sx.

or _____ ft³

Top of Cement: 12,000'

Method Determined: calculation

Total Depth: 18,500'

Injection Interval

17,100 feet to 18,500 feet

(Open Hole)

see well bore diagram

INJECTION WELL DATA SHEET

Tubing Size: 5.000", 18 lb/ft, P-110, BT&C from 0' – 12,000' and 5.000", 18 lb/ft, P-110 UFJ from 12,000' – 17,000'

Lining Material: Duoline

Type of Packer: 7" D&L Oil Tools Permapak Packer – Single Bore

Packer Setting Depth: 17,000'

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? Gas production

2. Name of the Injection Formation: 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:

Delaware: 5,276'

Bone Spring: 9,158'

Wolfcamp: 12,202'

Strawn: 13,957'

Atoka: 14,108'

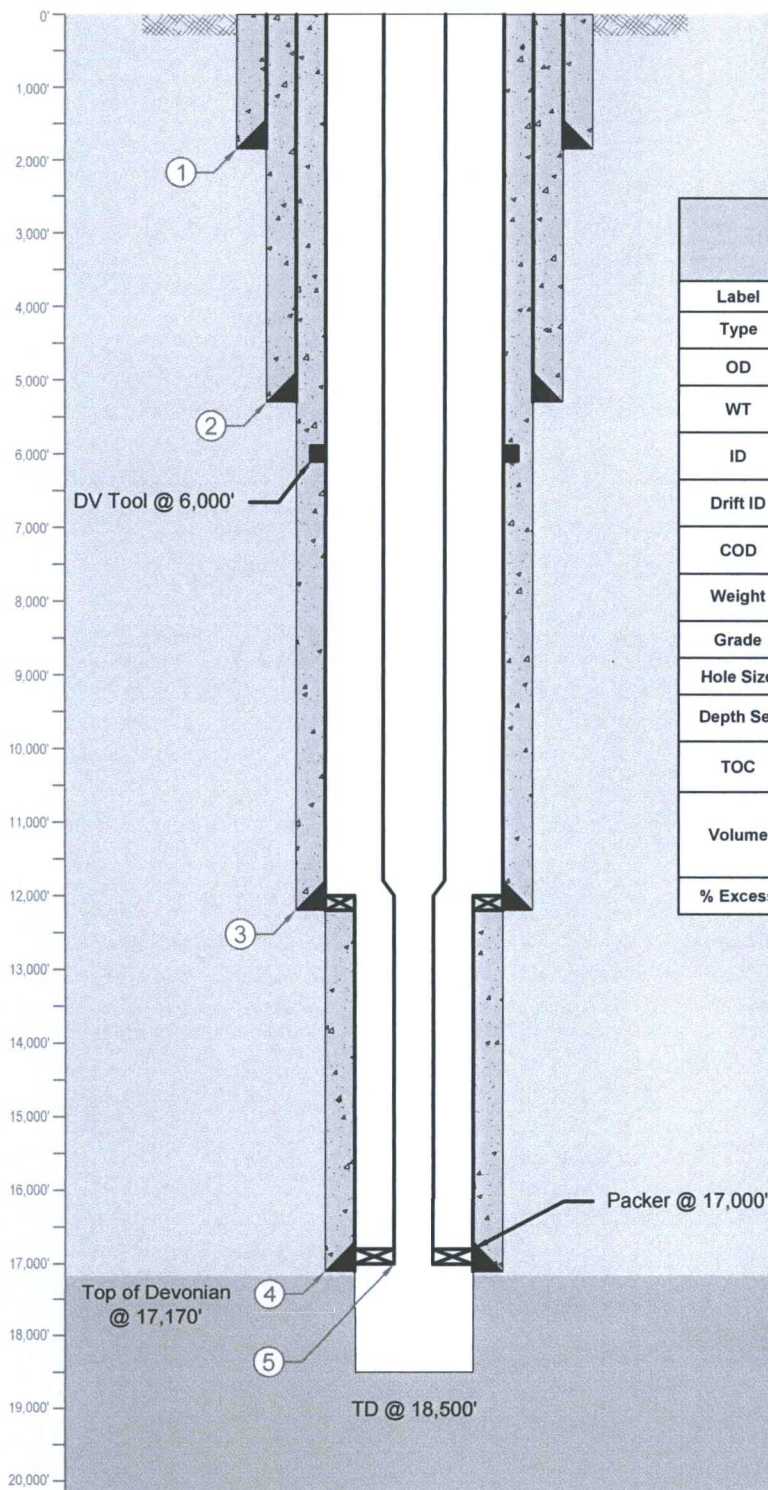
KB:	NA
BHF:	NA
GL:	3,653'
Spud:	NA

Casing Information

Label	1	2	3	4
Type	Surface	Intermediate	Production	Liner
OD	20"	13-5/8"	9-7/8"	7"
WT	0.812"	0.625"	0.625"	0.540"
ID	18.376"	12.375"	8.625"	5.920"
Drift ID	18.188"	12.250"	8.500"	5.795"
COD	21.000"	NA	NA	7.656"
Weight	169 lb/ft	88.2 lb/ft	62.8 lb/ft	38 lb/ft
Grade	K-55 STC	P-110 BTC	P-110 LTC	P-110 LTC
Hole Size	26"	17-1/2"	12-1/4"	8-1/2"
Depth Set	1,850'	5,300'	12,200'	12,000'-17,100'
TOC	Surface (circulation)	Surface (circulation)	Surface (circulation)	12,000'
Volume	Lead: 2,310 sx ECONOCEM Tail: 1,005 sx HALCEM	Lead: 1,400 sx NeoCem Tail: 360 sx HALCEM	Lead: 1,290 sx NeoCem Tail: 490 sx VERSACEM/HALCEM	800 sx VERSACEM
% Excess	100%	25%	25%	25%

Tubing Information

Label	5	5
Type	Tubing	Tubing
OD	5"	4-1/2"
WT	0.296"	0.337"
ID	4.408"	3.826"
Drift ID	4.283"	3.701"
COD	5.563"	5.000"
Weight	15 lb/ft	15.1 lb/ft
Grade	P-110 BTC	L-80 BTC
Hole Size	8.625"	5.920"
Depth Set	0' - 12,000'	12,000' - 17,000'



LONQUIST

FIELD SERVICE

AUSTIN HOUSTON WICHITA CALGARY

OWL SWD Operating, LLC

Brininstool SWD No. 4 - Proposed

Country: USA

State/Province: New Mexico

County/Parish: Lea

Location:

Site: 330' FSL & 2,350' FEL

Survey/STR: 26-23S-33E

API No:

Field:

Well Type/Status: SWD

Texas License F-9147

State ID No:

Project No: 1433

Date: 8/10/17

3345 Bee Cave Road, Suite 201
Austin, Texas 78746
Tel: 512.732.9812
Fax: 512.732.9816

Drawn: WHG

Reviewed: SLP

Approved: SLP

Rev No: 1

Notes:

OWL SWD Operating, LLC.

Brininstool SWD No. 4

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Brininstool SWD
Well No.	4
Location	S-26 T-23S R-33E
Footage Location	330' FSL & 2,350' FEL

2.

a. Wellbore Description

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	20"	13.625"	9.875"	7"
WT	0.812"	0.625"	0.625"	0.540"
ID	18.376"	12.375"	8.625"	5.920"
Drift ID	18.188"	12.250"	8.500"	5.795"
COD	21.00"	NA	NA	7.656"
Weight	169 lb/ft	88.2 lb/ft	62.8 lb/ft	38 lb/ft
Grade	K-55	P-110	P-110	P-110
Hole Size	26"	17.5"	12.25"	8.5"
Depth Set	1,850'	5,300'	12,200'	12,000' – 17,100'

b. Cementing Program

Cement Information				
Casing String	Surface	Intermediate	Production	Liner
Lead Cement	ECONOCEM	NeoCem	Stage 1: NeoCem Stage 2: NeoCem	VERSACEM
Lead Cement Volume	2,310 sks	1,400 sks	Stage 1: 680 sks Stage 2: 610 sks	800 sks
Tail Cement	HALCEM	HALCEM	Stage 1: VERSACEM Stage 2: HALCEM	-
Tail Cement Volume	1,005 sks	360 sks	Stage 1: 340 sks Stage 2: 150 sks	-
Cement Excess	100%	25%	25%	25%
TOC	Surface	Surface	Surface	12,000'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

Tubing Information		
OD	5"	5"
WT	0.362"	0.362"
ID	4.276"	4.276"
Drift ID	4.151"	4.151"
COD	5.563"	5.000"
Weight	18 lb/ft	18 lb/ft
Grade	P-110, BTC	P-110 UFJ
Depth Set	0'-12,000'	12,000'-17,000'

Tubing will be lined with Duoline.

4. Packer Description

D&L Oil Tools 7" Permapack Packer – Single Bore

B. Completion Information

1. Injection Formation: Devonian
2. Gross Injection Interval: 17,100' – 18,500'

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	5,276'
Bone Spring	9,158'
Wolfcamp	12,202'
Strawn	13,957'
Atoka	14,108'

VI. Area of Review

No wells within the area of review penetrate the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 24,000 BPD
Maximum Volume: 31,500 BPD

2. Closed System

3. Anticipated Injection Pressure:

Average Injection Pressure: 3,348 PSI (surface pressure)
Maximum Injection Pressure: 3,409 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 Delaware and Bone Spring formations.
5. As mentioned above, a Delaware produced water sample analysis is attached.

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 tremendous Salt Water Disposal horizon.

A. Injection Zone: Devonian Formation

Formation	Depth
Rustler	1,350'
Salado	1,836'
Delaware	5,276'
Bone Spring	9,158'
Wolfcamp	12,202'
Strawn	13,957'
Atoka	14,108'
Mississippian Lime	16,497'
Woodford	16,966'
Devonian	17,170'

B. Underground Sources of Drinking Water

Fresh water may be present throughout the Rustler formation. The top of the Salado formation is estimated at a depth of 1,836'; therefore, the surface casing is set at 1,850'. There are no sources of drinking water underlying the injection interval.

IX. Proposed Stimulation Program

No proposed stimulation program.

X. Logging and Test Data on the Well

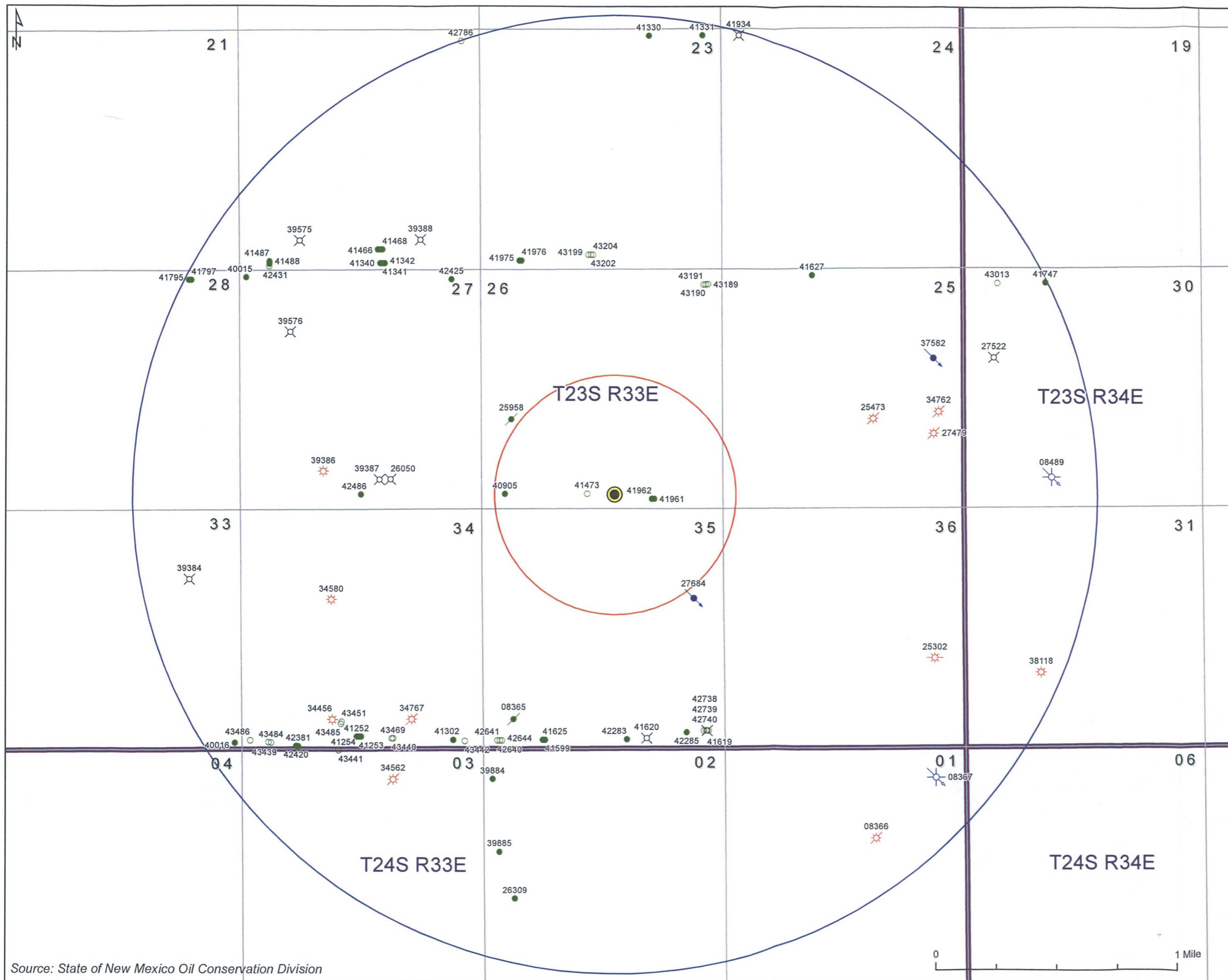
There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

There are three fresh water wells within one mile of the well location (C-02282, C-02283, C-02284). All of these wells are owned/operated by Brininstool XL Ranch LLC. Fresh water samples were obtained from two of the wells and analysis of these samples, a map, and the Water Right Summary from the New Mexico Office of the State Engineer are attached.

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.



Brininstool SWD No. 4 Offset Oil & Gas Wells

Lea County, NM

OWL SWD Operating, LLC

Projection: NAD 1983 State Plane NM East FIPS 3001

Drawn by: SAH

Date: 2/14/2017

Approved by: NLB

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

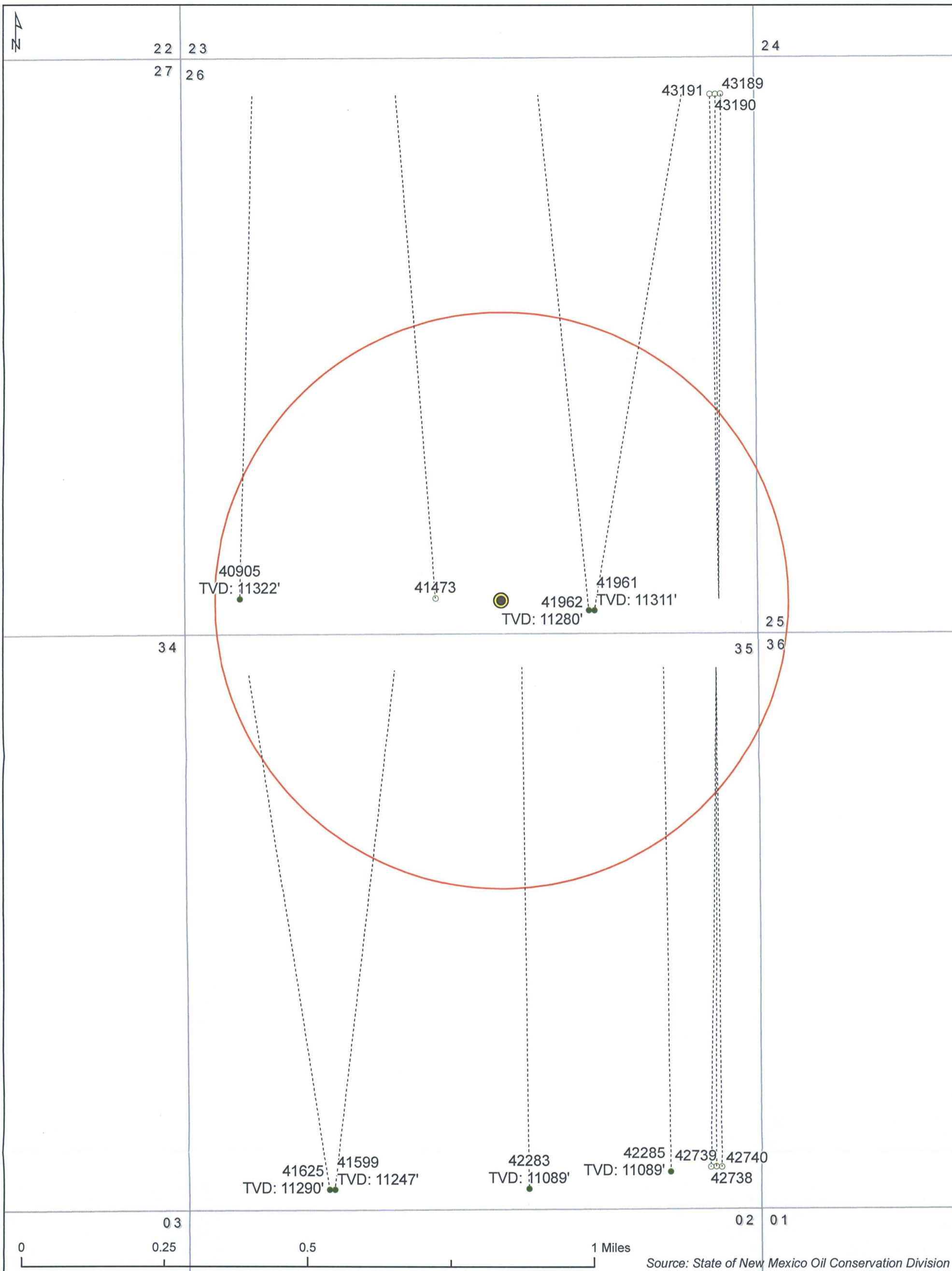
ENERGY
ADVISORS

WICHITA
CALGARY

Texas License F-8952

- Brininstool SWD No. 4
- Active Gas
- TA Gas
- Plugged Gas
- Active Oil
- Plugged Oil
- Permitted Oil
- SWD
- Plugged SWD
- Canceled Location
- 1/2 mile Radius
- 2 mile Radius
- Section Boundary
- Township Boundary





Brininstool SWD No. 4 1/2 mile Area of Review Lea County, NM OWL SWD Operating, LLC			<ul style="list-style-type: none"> ● Brininstool SWD No. 4 ● Active Oil Well ○ Permitted Oil Well ----- Lateral □ 1/2 mile Radius □ Section Boundary 	<p>New Mexico</p> <p>Texas</p> <p>Mexico</p> <p>Map Extent (Lea County, NM)</p>
Projection: NAD 1983 State Plane NM East FIPS 3001				
Drawn by: SAH	Date: 2/14/2017	Approved by: NLB		

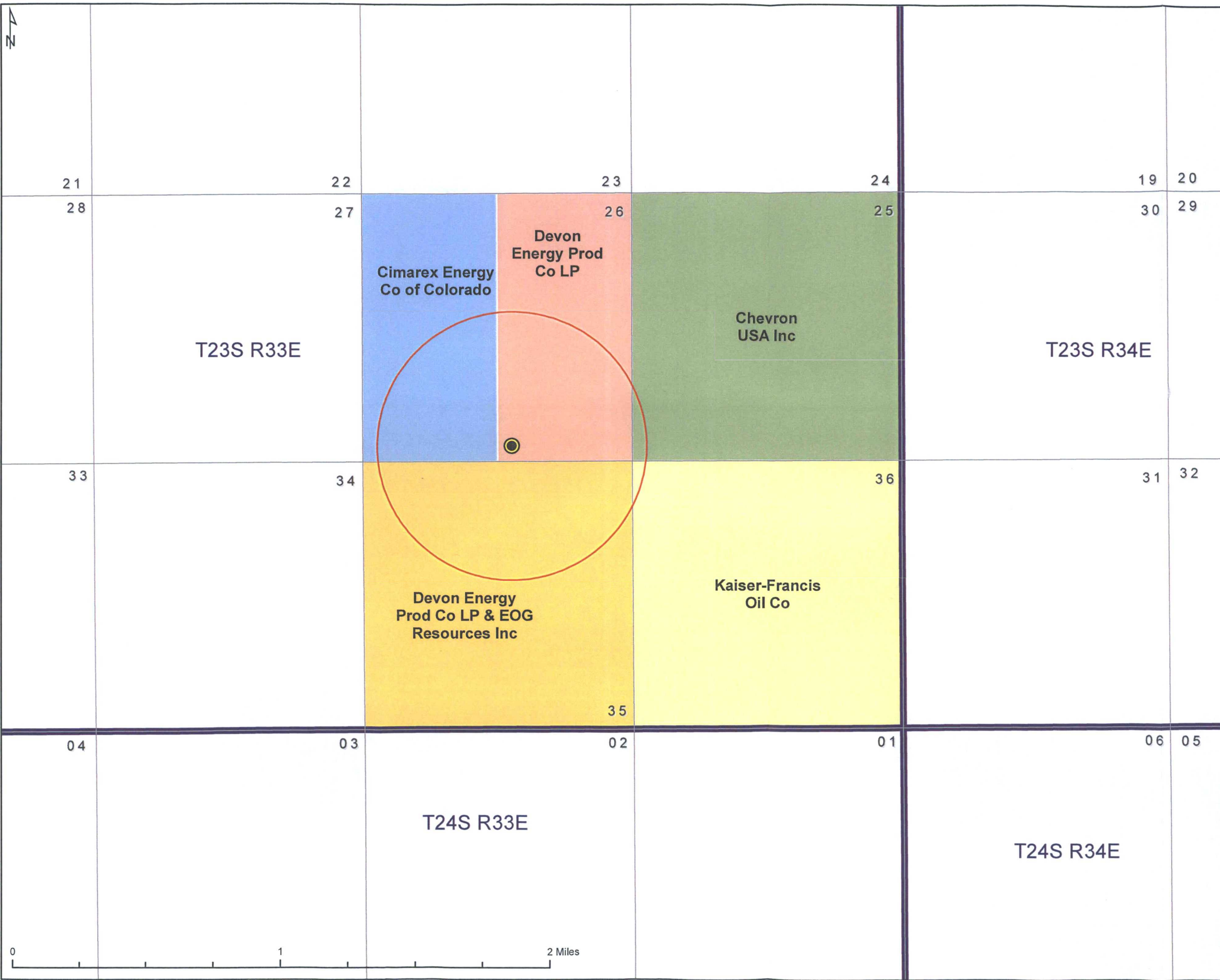
LONQUIST & CO. LLC

AUSTIN HOUSTON
PETROLEUM ENGINEERS
ENERGY ADVISORS
WICHITA CALGARY

Texas License F-8952

Half-Mile AOR
Brininstool SWD #4

API (30-025-)	Well Name	Well Type	Status	Operator	TD	Location	Date Drilled
40905	W BELL LAKE 26 FEDERAL #001H	Oil	Active	CIMAREX ENERGY CO. OF COLORADO	11322	M-26-23S-33E	4/4/2013
41473	W BELL LAKE 26 FEDERAL #002H	Oil	Permitted	CIMAREX ENERGY CO. OF COLORADO	0	N-26-23S-33E	NA
41599	SEA SNAKE 35 STATE #002H	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	11247	N-35-23S-33E	11/22/2014
41625	SEA SNAKE 35 STATE #001H	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	11290	M-35-23S-33E	10/13/2014
41961	COACHWHIP 26 FEDERAL #001H	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	11311	O-26-23S-33E	1/22/2015
41962	COACHWHIP 26 FEDERAL #002H	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	11280	O-26-23S-33E	12/23/2014
42283	SEA SNAKE 35 STATE #003H	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	11089	O-35-23S-33E	4/5/2015
42285	SEA SNAKE 35 STATE #004H	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	11089	P-35-23S-33E	4/27/2015
42738	SEA SNAKE 35 STATE #010H	Oil	Permitted	DEVON ENERGY PRODUCTION COMPANY, LP	0	P-35-23S-33E	NA
42739	SEA SNAKE 35 STATE #008H	Oil	Permitted	DEVON ENERGY PRODUCTION COMPANY, LP	0	P-35-23S-33E	NA
42740	SEA SNAKE 35 STATE #006H	Oil	Permitted	DEVON ENERGY PRODUCTION COMPANY, LP	0	P-35-23S-33E	NA
43189	COACHWHIP 26 FEDERAL #004H	Oil	Permitted	DEVON ENERGY PRODUCTION COMPANY, LP	0	A-26-23S-33E	NA
43190	COACHWHIP 26 FEDERAL #006H	Oil	Permitted	DEVON ENERGY PRODUCTION COMPANY, LP	0	A-26-23S-33E	NA
43191	COACHWHIP 26 FEDERAL #008H	Oil	Permitted	DEVON ENERGY PRODUCTION COMPANY, LP	0	A-26-23S-33E	NA



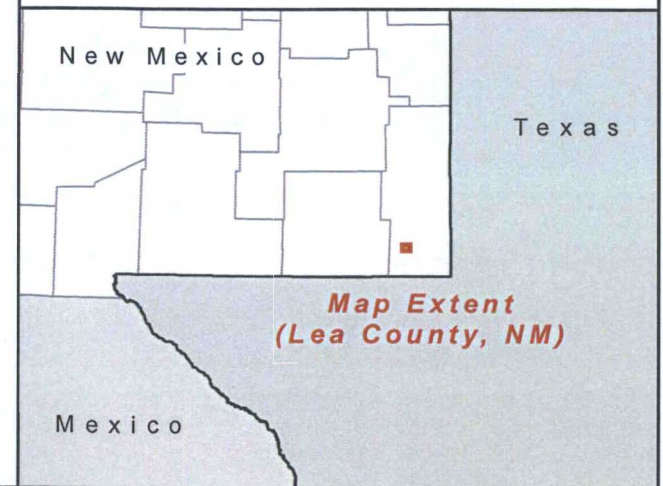
**Brininstool SWD No. 4
Offset Leases**
Lea County, NM
OWL SWD Operating, LLC

Projection: NAD 1983 State Plane NM East FIPS 3001
Drawn by: SAH Date: 2/15/2017 Approved by: NLB

LONQUIST & CO. LLC

AUSTIN HOUSTON PETROLEUM ENGINEERS ENERGY ADVISORS WICHITA CALGARY
Texas License F-8952

- Brininstool SWD No. 4
- 1/2 mile Radius
- Section Boundary
- Township Boundary
- Lessee**
 - Chevron USA Inc
 - Cimarex Energy Co of Colorado
 - Devon Energy Prod Co LP
 - Devon Energy Prod Co LP & EOG Resources Inc
 - Kaiser-Francis Oil Co



Brininstool SWD No. 4 Notice List			
Notice	Address	Phone Number	Date Noticed
Oil Conservation Division District IV	1220 South St. Francis Drive, Santa Fe, NM 87505	(505) 476-3440	5/3/2017
Oil Conservation Division District I	1625 N. French Drive, Hobbs, NM 88240	(575) 393-6161	5/3/2017
Christine Brininstool	424 XL Rd, Jal, NM 88252	(575) 225-2870	5/3/2017
Chevron USA Inc	1400 Smith St, Houston, Texas 77002	(713) 658-1877	5/3/2017
Cimarex Energy Co. of Colorado	600 N Marienfeld St #600, Midland, TX 79701	(432) 571-7800	5/3/2017
Devon Energy Prod. Co. LP	6488 7 Rivers Hwy, Artesia, NM 88210	(575) 748-3371	5/3/2017
EOG Resources Inc.	5509 Champions Dr, Midland, TX 79706	(432) 686-3600	5/3/2017
Kaiser-Francis Oil Co.	6733 S Yale Ave, Tulsa, OK 74136	(918) 494-0000	5/3/2017

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Street an

City, Sta

Cimarex Energy Co.
600 N. Marienfeld Street, #600
Midland, Texas 79701

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

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City, Sta

Ms. Christine Brininstool
424 XL Road
Jal, New Mexico 88252

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

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City, Sta

EOG Resources Inc.
5509 Champion Drive
Midland, Texas 79706

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

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Street

City, S

Devon Energy Production
Company LP
6488 7 Rivers Hwy
Artesia, New Mexico 88210

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

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Street

City, Sta

Kaiser-Francis Oil Co.
6733 S. Yale Avenue
Tulsa, Oklahoma 74136

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

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City, Sta

Chevron USA, Inc.
1400 Smith Street
Houston, Texas 77002

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

LEGAL NOTICE

May 3, 2017

OWL SWD Operating, LLC, 8214 Westchester Dr., Suite 850, Dallas, Texas 75255, is filling Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well Brininstool SWD No. 4. The proposed well will be located 330' FSL & 2,350' FEL in Section 26, Township 23S, Range 33E in Lea County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Devonian Formation (determined by offset log analysis) through an open hole completion between a maximum applied for top of 17,100 feet to a maximum depth of 18,500 feet. The maximum surface injection pressure will not exceed 3,409 psi with a maximum rate of 31,500 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. #31753

27

**Brininstool SWD No. 4
Offset Water Wells**
Lea County, NM
OWL SWD Operating, LLC

Projection: NAD 1983 State Plane NM East FIPS 3001

Drawn by: SAH Date: 2/14/2017 Approved by: NLB

LONQUIST & CO. LLC




AUSTIN
HOUSTON

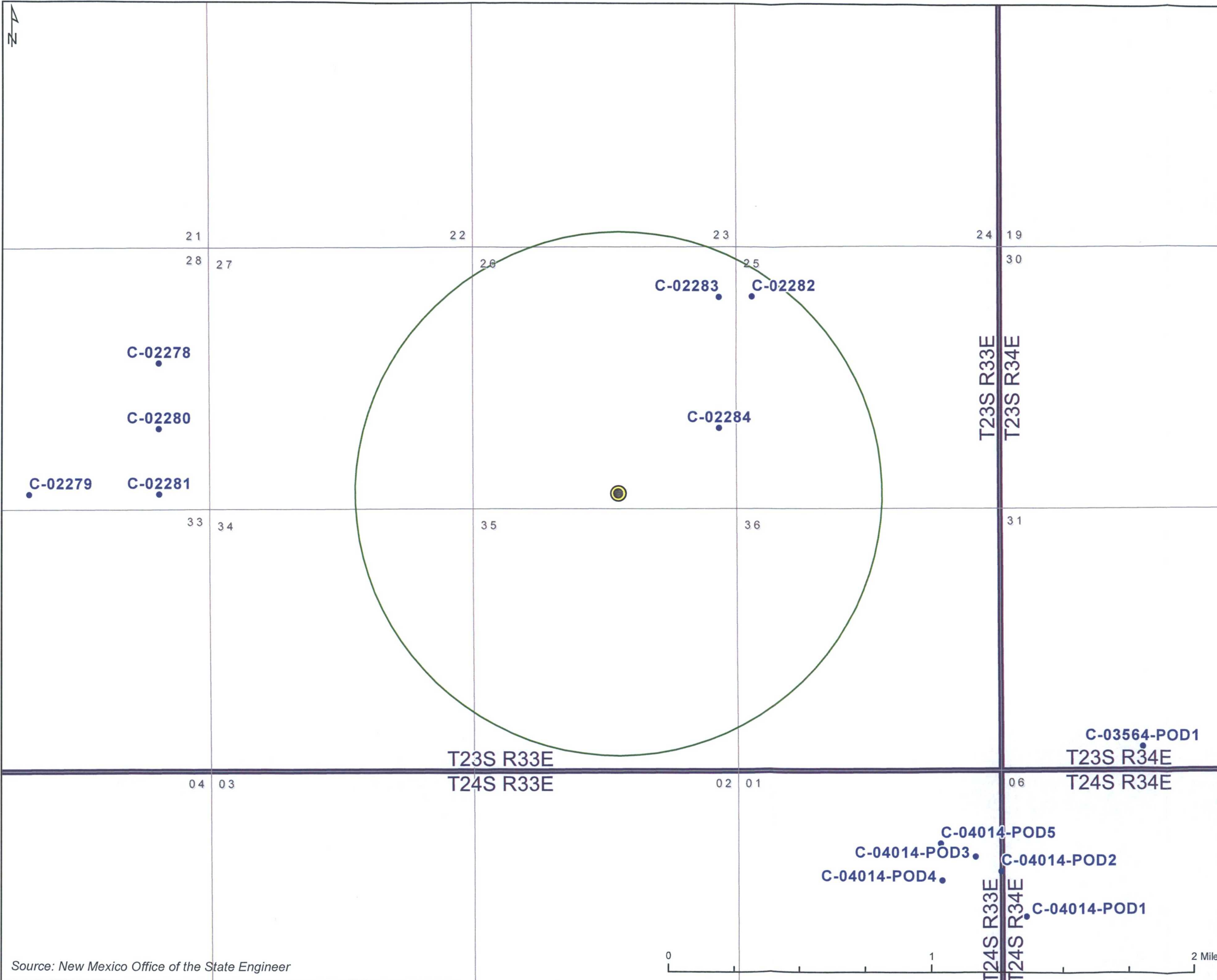
PETROLEUM
ENGINEERS

ENERGY
ADVISORS

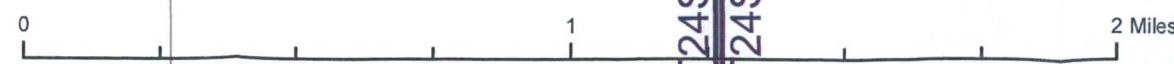
WICHITA
CALGARY

Texas License F-8952

-  Brininstool SWD No. 4
-  Water Well
-  1 mile Radius
-  Section Boundary
-  Township Boundary



Source: New Mexico Office of the State Engineer



Brinnistool SWD No. 4 - Offset Produced Water Analysis																									
wellname	api	latitude	longitude	section	township	range	unit	t1gms	t1gms	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
SEA SNAKE 35 STATE WOODH	3002541599	32.2544518	-103.5472717	35	235	33E	N	200S	1345W	Lea	NM	BONE SPRING 2ND SAND	5/14/2015 0:00	6.8			49141	6084	22	921	0.62	89000	220	269	440
SEA SNAKE 35 STATE WOODH	3002541625	32.2544518	-103.5474319	35	235	33E	M	200S	1295W	Lea	NM	BONE SPRING 2ND SAND	5/14/2015 0:00	6.9			48857	6766	26	1090	1.2	90000	183	655	440
SEA SNAKE 35 STATE WOODH	3002541625	32.2544518	-103.5474319	35	235	33E	M	200S	1295W	Lea	NM	BONE SPRING 2ND SAND	7/16/2015 0:00	7	146173.6	0.044	48514.2	6777	38.9	763.1	1.51	88880	207.4	635	60
SEA SNAKE 35 STATE WOODH	3002542282	32.2544466	-103.5414797	35	235	33E	O	200S	1132E	Lea	NM	BONE SPRING 2ND SAND	7/23/2015 0:00	7	118969.6	0.054	39911	5202	26.1	612.4	1.05	71983.8	221.8	820	40
HABANERO 17 FEDERAL COM WOODH	3001536108	32.2218475	-104.2062683	17	245	27E	A	990N	660E	EDDY	NM	WOLFCAMP	4/7/2015 0:00	6.5	138205	0.07392	35110.8	4480.2	28.5	627.9	0.61	65927.2	146	0	300
SERRANO 29 FEDERAL WOODH	3001537763	32.1898842	-104.2062149	29	245	27E	H	1980N	660E	EDDY	NM	WOLFCAMP	4/7/2015 0:00	6.9	102136.2	0.07961	30415.1	5311.5	40.2	643.7	1.47	62812.7	183	0	350
SERRANO 29 FEDERAL WOODH	3001537763	32.1898842	-104.2062149	29	245	27E	H	1980N	660E	EDDY	NM	WOLFCAMP	1/12/2015 0:00	6.5	100994.9		28702.1	5341.9	46.2	619.5	1.46	63450.1	268	0	350

wellname	api	formation	ph	tds_mgL	resistivity_ohm_cm	sodium_mgL	calcium_mgL	iron_mgL	magnesium_mgL	manganese_mgL	chloride_mgL	bicarbonate_mgL	sulfate_mgL	co2_mgL
THISTLE UNIT #020H	3002540015	DELAWARE-BRUSHY CANYON	5.4			85224	22553	30	4475	3.9	183663	85	250	290
THISTLE UNIT #020H	3002540015	DELAWARE-BRUSHY CANYON	5.9			60914	21590	26	5449	3.7	148000	61	220	660
THISTLE UNIT #020H	3002540015	DELAWARE-BRUSHY CANYON	6.5	167967.8	0.038	53995.6	9118	40.6	1014	1.19	102676.8	73.2	425	200
THISTLE UNIT #071H	3002542425	BONE SPRING 1ST SAND	5.6	171476.3	0.037	55363.2	9140	40.4	1023	1.1	104576.4	244	560	770
THISTLE UNIT #020H	3002540015	DELAWARE-BRUSHY CANYON	7	245475		66848	20494	40	3559	4	151089	61	990	300



New Mexico Office of the State Engineer Water Right Summary

WR File Number: C 02282 Subbasin: - Cross Reference: -
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING
Primary Status: DCL DECLARATION
Total Acres: 0 Subfile: -
Total Diversion: 4.8 Cause/Case: -
Owner: BRININSTOOL XL RANCH LLC
Contact: CHRISTINE BRININSTOOL

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
439874	COWNF	2009-07-29	CHG	PRC	C 02282	T	0	0	
234011	COWNF	2002-06-25	CHG	PRC	C 02282	T	0	0	
198409	DCL	1991-05-21	DCL	PRC	C 02282	T	0	4.8	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Source	Q	Q	Q	Sec	Tws	Rng	X	Y	Other Location Desc
C 02282		3	1	1	25	23S	33E	638098	3572436*	

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

Place of Use

Q	Q	Q	Q	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64	16	4				0	4.8		STK		DCL	NO PLACE OF USE GIVEN.

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	4.8		STK		GW

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Water Right Summary

WR File Number: C 02283 Subbasin: - Cross Reference: -
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING
Primary Status: DCL DECLARATION
Total Acres: 0 Subfile: -
Total Diversion: 4.8 Cause/Case: -
Owner: BRININSTOOL XL RANCH LLC
Contact: CHRISTINE BRININSTOOL

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
439875	COWNF	2009-07-29	CHG	PRC	C 02283	T	0	0	
234010	COWNF	2002-06-25	CHG	PRC	C 02283	T	0	0	
198411	DCL	1991-05-21	DCL	PRC	C 02283	T	0	4.8	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Source	Q Q Q	Sec	Tws	Rng	X	Y	Other Location Desc
C 02283		4 2 2	26	23S	33E	637896	3572431*	

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

Place of Use

Q Q Q Q	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256 64 16 4				0	4.8		STK		DCL	NO PLACE OF USE GIVEN.

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	4.8		STK		GW



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: C 02284 Subbasin: - Cross Reference: -
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING
Primary Status: DCL DECLARATION
Total Acres: 0 Subfile: -
Total Diversion: 4.8 Cause/Case: -
Owner: BRININSTOOL XL RANCH LLC
Contact: CHRISTINE BRININSTOOL

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
439877	COWNF	2009-07-29	CHG	PRC	C 02284	T	0	0	
234008	COWNF	2002-06-25	CHG	PRC	C 02284	T	0	0	
198413	DCL	1991-05-21	DCL	PRC	C 02284	T	0	4.8	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Source	Q Q Q	SecTws	Rng	X	Y	Other Location Desc
C 02284		4 2 4	26	23S 33E	637907	3571626*	

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

Place of Use

Q Q Q Q	SecTws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256 64 16 4			0	4.8		STK		DCL	NO PLACE OF USE GIVEN.

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	4.8		STK		GW



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

March 16, 2017

Will George

Lonquist Field Services, LLC

3345 Bee Cave Road, Suite 201

Austin, TX 78746

RE: WATER SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 03/09/17 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Lonquist Field Services, LLC
3345 Bee Cave Road, Suite 201
Austin TX, 78746

Project: WATER SAMPLES
Project Number: NONE GIVEN
Project Manager: Will George
Fax To: (512) 732-9816

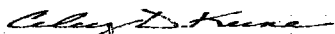
Reported:
16-Mar-17 18:47

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NORTH WELL	H700612-01	Water	09-Mar-17 09:50	09-Mar-17 12:15
SOUTH WELL	H700612-02	Water	09-Mar-17 09:55	09-Mar-17 12:15

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Lonquist Field Services, LLC
3345 Bee Cave Road, Suite 201
Austin TX, 78746

Project: WATER SAMPLES
Project Number: NONE GIVEN
Project Manager: Will George
Fax To: (512) 732-9816

Reported:
16-Mar-17 18:47

NORTH WELL
H700612-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	298		5.00	mg/L	1	7022210	AC	10-Mar-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7022210	AC	10-Mar-17	310.1	
Chloride*	32.0		4.00	mg/L	1	7030902	AC	10-Mar-17	4500-Cl-B	
Conductivity*	635		1.00	uS/cm	1	7030904	AC	10-Mar-17	120.1	
pH*	7.69		0.100	pH Units	1	7030903	AC	09-Mar-17	150.1	
Resistivity	15.7			Ohms/m	1	7030904	AC	10-Mar-17	120.1	
Specific Gravity @ 60° F	1.000		0.000	[blank]	1	7031003	AC	10-Mar-17	SM 2710F	
Sulfate*	67.5		25.0	mg/L	2.5	7031002	AC	10-Mar-17	375.4	
TDS*	410		5.00	mg/L	1	7022808	AC	13-Mar-17	160.1	
Alkalinity, Total*	244		4.00	mg/L	1	7022210	AC	10-Mar-17	310.1	
Sulfide, total	<0.0100		0.0100	mg/L	1	7031006	AC	10-Mar-17	376.2	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.050		0.050	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	
Calcium*	23.2		0.100	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	
Iron*	<0.050		0.050	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	
Magnesium*	29.2		0.100	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	
Potassium*	2.66		1.00	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	
Sodium*	67.8		1.00	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Lonquist Field Services, LLC
 3345 Bee Cave Road, Suite 201
 Austin TX, 78746

 Project: WATER SAMPLES
 Project Number: NONE GIVEN
 Project Manager: Will George
 Fax To: (512) 732-9816

 Reported:
 16-Mar-17 18:47

SOUTH WELL
H700612-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	293		5.00	mg/L	1	7022210	AC	10-Mar-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7022210	AC	10-Mar-17	310.1	
Chloride*	20.0		4.00	mg/L	1	7030902	AC	10-Mar-17	4500-Cl-B	
Conductivity*	594		1.00	uS/cm	1	7030904	AC	10-Mar-17	120.1	
pH*	7.74		0.100	pH Units	1	7030903	AC	09-Mar-17	150.1	
Resistivity	16.8			Ohms/m	1	7030904	AC	10-Mar-17	120.1	
Specific Gravity @ 60° F	0.9978		0.000	[blank]	1	7031003	AC	10-Mar-17	SM 2710F	
Sulfate*	72.8		25.0	mg/L	2.5	7031002	AC	10-Mar-17	375.4	
TDS*	368		5.00	mg/L	1	7022808	AC	13-Mar-17	160.1	
Alkalinity, Total*	240		4.00	mg/L	1	7022210	AC	10-Mar-17	310.1	
Sulfide, total	<0.0100		0.0100	mg/L	1	7031006	AC	10-Mar-17	376.2	


Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Barium*	<0.050		0.050	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	
Calcium*	21.8		0.100	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	
Iron*	<0.050		0.050	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	
Magnesium*	28.7		0.100	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	
Potassium*	2.63		1.00	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	
Sodium*	61.7		1.00	mg/L	1	B703116	LLG	15-Mar-17	EPA200.7	

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*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Lonquist Field Services, LLC
3345 Bee Cave Road, Suite 201
Austin, TX, 78746

Project: WATER SAMPLES
Project Number: NONE GIVEN
Project Manager: Will George
Fax To: (512) 732-9816

Reported:
16-Mar-17 18:47

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7022210 - General Prep - Wet Chem**Blank (7022210-BLK1)**

Prepared & Analyzed: 22-Feb-17

Alkalinity, Carbonate	ND	1.00	mg/L
Alkalinity, Bicarbonate	5.00	5.00	mg/L
Alkalinity, Total	4.00	4.00	mg/L

LCS (7022210-BS1)

Prepared & Analyzed: 22-Feb-17

Alkalinity, Carbonate	ND	1.00	mg/L				80-120
Alkalinity, Bicarbonate	127	5.00	mg/L				80-120
Alkalinity, Total	104	4.00	mg/L	100	104		80-120

LCS Dup (7022210-BSD1)

Prepared & Analyzed: 22-Feb-17

Alkalinity, Carbonate	ND	1.00	mg/L				80-120		20
Alkalinity, Bicarbonate	127	5.00	mg/L				80-120	0.00	20
Alkalinity, Total	104	4.00	mg/L	100	104		80-120	0.00	20

Batch 7022808 - Filtration**Blank (7022808-BLK1)**

Prepared: 28-Feb-17 Analyzed: 02-Mar-17

TDS	ND	5.00	mg/L
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LCS (7022808-BS1)

Prepared: 28-Feb-17 Analyzed: 02-Mar-17

TDS	215	5.00	mg/L	213	101		80-120
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Duplicate (7022808-DUP1)

Source: H700474-04

Prepared: 28-Feb-17 Analyzed: 02-Mar-17

TDS	992	5.00	mg/L	1010				2.19	20
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Batch 7030902 - General Prep - Wet Chem**Blank (7030902-BLK1)**

Prepared & Analyzed: 09-Mar-17

Chloride	ND	4.00	mg/L
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Lonquist Field Services, LLC
3345 Bee Cave Road, Suite 201
Austin TX, 78746

Project: WATER SAMPLES
Project Number: NONE GIVEN
Project Manager: Will George
Fax To: (512) 732-9816

Reported:
16-Mar-17 18:47

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7030902 - General Prep - Wet Chem										
LCS (7030902-BS1)				Prepared & Analyzed: 09-Mar-17						
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (7030902-BSD1)				Prepared & Analyzed: 09-Mar-17						
Chloride	100	4.00	mg/L	100		100	80-120	0.00	20	
Batch 7030903 - General Prep - Wet Chem										
LCS (7030903-BS1)				Prepared & Analyzed: 09-Mar-17						
pH	7.11		pH Units	7.00		102	90-110			
Duplicate (7030903-DUP1)				Source: H700605-01 Prepared & Analyzed: 09-Mar-17						
pH	7.12	0.100	pH Units	7.10				0.281	20	
Batch 7030904 - General Prep - Wet Chem										
LCS (7030904-BS1)				Prepared: 09-Mar-17 Analyzed: 10-Mar-17						
Conductivity	491		uS/cm	500		98.2	80-120			
Duplicate (7030904-DUP1)				Source: H700605-01 Prepared: 09-Mar-17 Analyzed: 10-Mar-17						
Conductivity	3060	1.00	uS/cm	3070				0.326	20	
Resistivity	3.27		Ohms/m	3.26				0.327	200	
Batch 7031002 - General Prep - Wet Chem										
Blank (7031002-BLK1)				Prepared & Analyzed: 10-Mar-17						
Sulfate	ND	10.0	mg/L							

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Analytical Results For:Longist Field Services, LLC
3345 Bee Cave Road, Suite 201
Austin TX, 78746Project: WATER SAMPLES
Project Number: NONE GIVEN
Project Manager: Will George
Fax To: (512) 732-9816Reported:
16-Mar-17 18:47**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7031002 - General Prep - Wet Chem										
LCS (7031002-BS1)				Prepared & Analyzed: 10-Mar-17						
Sulfate	23.4	10.0	mg/L	20.0		117	80-120			
LCS Dup (7031002-BSD1)				Prepared & Analyzed: 10-Mar-17						
Sulfate	24.4	10.0	mg/L	20.0		122	80-120	4.18	20	BS1
Batch 7031003 - General Prep - Wet Chem										
Duplicate (7031003-DUP1)				Source: H700612-01		Prepared & Analyzed: 10-Mar-17				
Specific Gravity @ 60° F	1.000	0.000	[blank]		1.000			0.0100	20	
Batch 7031006 - General Prep - Wet Chem										
Blank (7031006-BLK1)				Prepared & Analyzed: 10-Mar-17						
Sulfide, total	ND	0.0100	mg/L							
Duplicate (7031006-DUP1)				Source: H700612-01		Prepared & Analyzed: 10-Mar-17				
Sulfide, total	ND	0.0100	mg/L		ND				20	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Lonquist Field Services, LLC
3345 Bee Cave Road, Suite 201
Austin TX, 78746

Project: WATER SAMPLES
Project Number: NONE GIVEN
Project Manager: Will George
Fax To: (512) 732-9816

Reported:
16-Mar-17 18:47

Total Recoverable Metals by ICP (E200.7) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B703116 - EPA 200.2 Total Rec.**Blank (B703116-BLK1)**

Prepared & Analyzed: 15-Mar-17

Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Barium	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							

LCS (B703116-BS1)

Prepared & Analyzed: 15-Mar-17

Calcium	3.69	0.100	mg/L	4.00		92.2	85-115			
Potassium	7.40	1.00	mg/L	8.00		92.5	85-115			
Sodium	6.21	1.00	mg/L	6.48		95.9	85-115			
Barium	1.90	0.050	mg/L	2.00		95.2	85-115			
Iron	3.75	0.050	mg/L	4.00		93.8	85-115			
Magnesium	19.0	0.100	mg/L	20.0		94.8	85-115			

LCS Dup (B703116-BSD1)

Prepared & Analyzed: 15-Mar-17

Magnesium	18.6	0.100	mg/L	20.0		93.2	85-115	1.72	20	
Iron	3.68	0.050	mg/L	4.00		92.0	85-115	2.01	20	
Potassium	7.21	1.00	mg/L	8.00		90.2	85-115	2.56	20	
Calcium	3.62	0.100	mg/L	4.00		90.6	85-115	1.78	20	
Sodium	6.12	1.00	mg/L	6.48		94.4	85-115	1.54	20	
Barium	1.87	0.050	mg/L	2.00		93.5	85-115	1.87	20	

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Celey D. Keene, Lab Director/Quality Manager

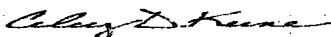
Notes and Definitions

BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Longquist Field Services				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Will George				P.O. #:				<div>Coliforms / Ammonia</div> <div>Scale Index</div> <div>Total Sulfide</div>																																	
Address: 3345 Bee Cave Rd				Company:																																					
City: Austin State: TX Zip: 78746				Attn:																																					
Phone #: Fax #:				Address:																																					
Project #: Project Owner:				City:																																					
Project Name: Water Samples				State: Zip:																																					
Project Location: Lea County, NM				Phone #:																																					
Sampler Name: Rolando				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME													
H70062		1 North well																								3/9/17		9:50													
		2 South well																								1		9:55													

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Date: 3-9-17		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 12:15				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: RUSH!!			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: #75 4.92				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>					
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

CARDINAL LABORATORIES **SCALE INDEX WATER ANALYSIS REPORT**

Company : LONQUIST & CO, LLC
 Lease Name : WATER SAMPLES
 Well Number : NORTH WELL (H700612-01)
 Location : LEA COUNTY, NM

Date Sampled : 03/09/17
 Company Rep. : WILL GEORGE

ANALYSIS

1. pH	7.69	
2. Specific Gravity @ 60/60 F.	1.0000	
3. CaCO ₃ Saturation Index @ 80 F.	-0.608	
@ 140 F.	+0.092	'Calcium Carbonate Scale Possible'

Dissolved Gasses

4. Hydrogen Sulfide	0.000	PPM
5. Carbon Dioxide	ND	PPM
6. Dissolved Oxygen	ND	PPM

Cations

	mg/L	/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	23.20	/	20.1	=	1.15
8. Magnesium (Mg++)	29.20	/	12.2	=	2.39
9. Sodium (Na+)	68	/	23.0	=	3.61
10. Barium (Ba++)	0.000	/	68.7	=	0.00

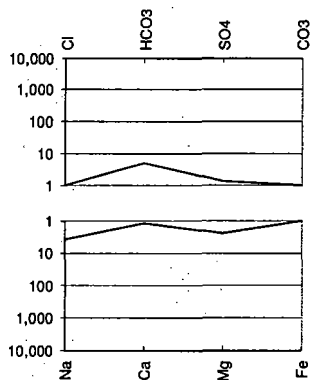
Anions

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO ₃ =)	0	/	30.0	=	0.00
13. Bicarbonate (HCO ₃ -)	298	/	61.1	=	4.88
14. Sulfate (SO ₄ =)	68	/	48.8	=	1.38
15. Chloride (Cl-)	32	/	35.5	=	0.90

Other

16. Total Iron (Fe)	0.000	/	18.2	=	0.00
17. Total Dissolved Solids	410				
18. Total Hardness As CaCO ₃	178.0				
19. Calcium Sulfate Solubility @ 90 F.	1,508				
20. Resistivity (Measured)	15.700	Ohm/Meters	@ 77	Degrees (F)	

Logarithmic Water Pattern



PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO ₃) ₂	81.04	X	1.15	=	94
CaSO ₄	68.07	X	0.00	=	0
CaCl ₂	55.50	X	0.00	=	0
Mg(HCO ₃) ₂	73.17	X	2.39	=	175
MgSO ₄	60.19	X	0.00	=	0
MgCl ₂	47.62	X	0.00	=	0
NaHCO ₃	84.00	X	1.33	=	112
NaSO ₄	71.03	X	1.38	=	98
NaCl	58.46	X	0.90	=	53

CARDINAL LABORATORIES

SCALE INDEX WATER ANALYSIS REPORT

Company : LONQUIST & CO, LLC
 Lease Name : WATER SAMPLES
 Well Number : SOUTH WELL (H700612-02)
 Location : LEA COUNTY, NM

Date Sampled : 03/09/17
 Company Rep. : WILL GEORGE

ANALYSIS

1. pH	7.74	
2. Specific Gravity @ 60/60 F.	0.9978	
3. CaCO ₃ Saturation Index @ 80 F. @ 140 F.	-0.642 +0.058	'Calcium Carbonate Scale Possible'

Dissolved Gasses

4. Hydrogen Sulfide	0.000	PPM
5. Carbon Dioxide	ND	PPM
6. Dissolved Oxygen	ND	PPM

Cations

	mg/L	/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	21.80	/	20.1	=	1.08
8. Magnesium (Mg++)	28.70	/	12.2	=	2.35
9. Sodium (Na+)	62	/	23.0	=	3.41
10. Barium (Ba++)	0.000	/	68.7	=	0.00

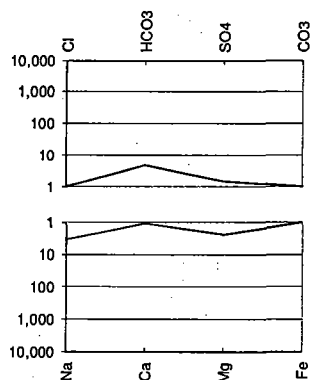
Anions

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO ₃ =)	0	/	30.0	=	0.00
13. Bicarbonate (HCO ₃ -)	293	/	61.1	=	4.80
14. Sulfate (SO ₄ =)	73	/	48.8	=	1.49
15. Chloride (Cl-)	20	/	35.5	=	0.56

Other

16. Total Iron (Fe)	0.000	/	18.2	=	0.00
17. Total Dissolved Solids	368				
18. Total Hardness As CaCO ₃	173.0				
19. Calcium Sulfate Solubility @ 90 F.	1,502				
20. Resistivity (Measured)	16.800	Ohm/Meters	@ 77	Degrees (F)	

Logarithmic Water Pattern



PROBABLE MINERAL COMPOSITION


COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO ₃) ₂	81.04	X	1.08	=	88
CaSO ₄	68.07	X	0.00	=	0
CaCl ₂	55.50	X	0.00	=	0
Mg(HCO ₃) ₂	73.17	X	2.35	=	172
MgSO ₄	60.19	X	0.00	=	0
MgCl ₂	47.62	X	0.00	=	0
NaHCO ₃	84.00	X	1.36	=	114
NaSO ₄	71.03	X	1.49	=	106
NaCl	58.46	X	0.56	=	33

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

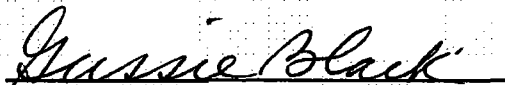
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
May 03, 2017
and ending with the issue dated
May 03, 2017.



Publisher

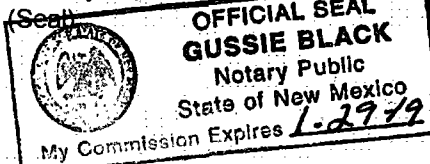
Sworn and subscribed to before me this
3rd day of May 2017.



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

LEGAL NOTICE May 3, 2017

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 Brininstool SWD No. 4. The proposed well will be located 330' FSL & 2,350' FEL in Section 26, Township 23S, Range 33E in Lea County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Devonian Formation (determined by offset log analysis) through an open hole completion between a maximum applied for top of 17,100 feet to a maximum depth of 18,500 feet. The maximum surface injection pressure will not exceed 3,409 psi with a maximum rate of 31,500 BWP/D. 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. #31753

67112661

00192584

LONQUIST & CO., LLC
3345 BEE CAVE ROAD, STE 201
AUSTIN, TX 78746

Tracking Number: 70151520000273827776



Delivered

Product & Tracking Information

See Available Actions

Postal Product:

Features:
Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
May 8, 2017, 2:36 pm	Delivered	HOUSTON, TX 77002
Your item was delivered at 2:36 pm on May 9, 2017 in HOUSTON, TX 77002.		
May 8, 2017, 2:32 pm	Arrived at Unit	HOUSTON, TX 77002

7015 1520 0002 7382 7776

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee	\$
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	\$
Total Po	\$
Sent To	
Street or	
City, State	
Chevron USA, Inc. 1400 Smith Street Houston, Texas 77002	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

Postmark
Here

23.00m 114.84

Tracking Number: 70151520000273827752



Delivered

Product & Tracking Information

[See Available Actions](#)

Postal Product:

Features:

Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
-------------	----------------	----------

May 11, 2017, 12:24 pm

Delivered

ARTESIA, NM 88210

Your item was delivered at 12:24 pm on May 11, 2017 in ARTESIA, NM 88210.

May 8, 2017, 12:03 pm

Notice Left (No Secure Location Available)

ARTESIA, NM 88210

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee

\$

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 | \$ |

Postmark
Here

Postage

\$

Total F

\$

Sent To

Street

City, S

Devon Energy Production
Company LP
6488 7 Rivers Hwy
Artesia, New Mexico 88210

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

See Reverse for Instructions

7015 1520 0002 7382 7752

Tracking Number: 70151520000273827738



Alert

Your item was returned to the sender on May 8, 2017 at 4:04 pm in JAL, NM 88252 because the addressee moved and left no forwarding address.

Product & Tracking Information

See Available Action

Postal Product:

Features:
Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
May 8, 2017, 4:04 pm	Moved, Left no Address	JAL, NM 88252
Your item was returned to the sender on May 8, 2017 at 4:04 pm in JAL, NM 88252 because the addressee moved and left no forwarding address.		
May 8, 2017, 4:03 pm	Available for Pickup	JAL, NM 88252

7015 1520 0002 7382 7738

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OFFICIAL USE

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 \$

Postage \$
Total Postage \$

Sent To
Street and
City, State

Ms. Christine Brininstool
424 XL Road
Jal, New Mexico 88252

MAILED 5/3/2017

Postmark Here

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

Tracking Number: 70151520000273827769



In-Transit

Product & Tracking Information

See Available Action

Postal Product:

Features:
Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
May 10, 2017, 7:09 am	Available for Pickup	MIDLAND, TX 79706
Your item arrived at the MIDLAND, TX 79706 post office at 7:09 am on May 10, 2017 and is ready for pickup.		
May 6, 2017, 2:55 pm	Business Closed	MIDLAND, TX 79706

7015 1520 0002 7382 7769

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee	\$
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	\$
Total Post	\$
Sent To	
Street an	
City, Stat	

Postmark Here

EOG Resources Inc.
5509 Champion Drive
Midland, Texas 79706

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

McMillan, Michael, EMNRD

From: Steve Pattee <steve@lonquist.com>
Sent: Friday, May 12, 2017 2:24 PM
To: McMillan, Michael, EMNRD
Subject: RE: Brininstool SWD Well No. 4 Lea Co.
Attachments: Proof of Public Notice - Affidavit.pdf; Proof - Returned Receipts - Two Operators.pdf; Proof - US Postal Confirmations - Two Operators.pdf; Proof - US Postal - Bad Address.pdf; Re-Send Notices.pdf

Michael,

Attached are the proofs of delivery for the notices for the Brininstool SWD #4 well. I have attached the following proofs:

- Proof of Public Notice
- Returned Receipts for two operators
- US Postal Service Proofs of Delivery for two operators
 - Returned Receipts for these two operators will be sent to you as soon as they are received by LCO
- US Postal Service Proofs of Non-Delivery for one operator and land owner – bad addresses?
- Proofs of Re-Submittal of Notices to bad address operator and land owner.
 - Proofs of receipt for these will be sent to you as soon as they are received by LCO.

I will also send you an original Affidavit of Public Notice along with copies of all Returned Receipts once LCO receives them all. Please contact me with any additional comments, questions, or needs with regards to this permit application. Thank you Michael.

LONGQUIST & CO. LLC



Stephen Pattee, P.G. • Regulatory Manager • Lonquist & Co., LLC • 3345 Bee Cave Rd., Suite 201 • Austin, Texas, USA 78746
Direct: 512-600-1774 • Cell: 281-773-0728 • Fax: 512-732-9816 • steve@lonquist.com • www.lonquist.com

AUSTIN
HOUSTON

WICHITA
CALGARY

This email and any attachments thereto may contain private, confidential and privileged material for the sole use of the intended recipient. Any review, copying, or distribution of this email (or any attachments thereto) by others is strictly prohibited. If you are not the intended recipient, please contact the sender immediately and permanently delete the original and any copies of this email and any attachments thereto.

From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]
Sent: Monday, May 08, 2017 5:15 PM
To: Steve Pattee <steve@lonquist.com>
Cc: Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>; Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: Brininstool SWD Well No. 4 Lea Co.

Steve:

Your administrative SWD application for the Brininstool SWD Well No. 4 was received on May 8 2017. Your application has been suspended until the OCD receives the return receipts for the affected parties.

The OCD will accept USPS proof of delivery

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:

EOG Resources, Inc.
P. O. Box 4362
Houston, Texas 77210-4362

9590 9403 0963 5223 5495 86

2. Article Number (Transfer from service label)

7015 1520 0002 7382 7851

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

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 | |

Domestic Return Receipt

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:

Ms. Christine Brininstool
P. O. Box 940
Jal, New Mexico 88252

9590 9403 0963 5223 5495 93

2. Article Number (Transfer from service label)

7015 1520 0002 7382 7844

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

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 | |

Domestic Return Receipt

7015 1520 0002 7382 7851

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com	
OFFICIAL USE	
Certified Mail Fee \$	Postmark Here
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 \$	
Total Postage \$	
Sent To Street and City, State	EOG Resources, Inc. P. O. Box 4362 Houston, Texas 77210-4362
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7015 1520 0002 7382 7844

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com	
OFFICIAL USE	
Certified Mail Fee \$	Postmark Here
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 \$	
Total Postage \$	
Sent To Street City, State	Ms. Christine Brininstool P. O. Box 940 Jal, New Mexico 88252
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Monday, July 17, 2017 10:23 AM
To: 'Steve Pattee'
Cc: Goetze, Phillip, EMNRD; Jones, William V, EMNRD
Subject: RE: Brininstool SWD #4 Notice Update

Steve:
Kaiser Francis has withdrawn their protest.
Therefore, the application can be placed back in the administrative process

Thank You

Mike

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

From: McMillan, Michael, EMNRD
Sent: Tuesday, May 23, 2017 12:16 PM
To: Steve Pattee <steve@lonquist.com>
Cc: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>
Subject: RE: Brininstool SWD #4 Notice Update

Thanks for the update with Kaiser-Francis.
I will send another e-mail about the Schrute Farms SWD Well No. 1
Thanks

Mike

From: Steve Pattee [<mailto:steve@lonquist.com>]
Sent: Tuesday, May 23, 2017 12:06 PM
To: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Subject: RE: Brininstool SWD #4 Notice Update

Yes sir. We have spoken with them about this and are anticipating a second meeting with them either today or tomorrow. Initial impression is that this may have been a preemptive place-holder response to ensure that the notice period did not expire until further discussions could be held. I will update you as soon as I have further updates.

On a separate note, OWL has requested that I have the Schrute Farms SWD #1 application which is being protested by COG pulled. Upon completion of negotiations with COG, we will return to the OCD with a replacement application. Please do not hesitate to contact me with any questions regarding this request.

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Friday, May 19, 2017 11:05 AM
To: 'Steve Pattee'
Cc: Jones, William V, EMNRD; Lowe, Leonard, EMNRD; Goetze, Phillip, EMNRD; Brown, Maxey G, EMNRD; Whitaker, Mark A, EMNRD
Subject: Protested SWD application Brinninstool SWD Well No. 4 Unit O, Section 26, T. 23 S., R. 33 E., NMPM, Lea County, New Mexico.

RE: Brinninstool SWD Well No. 4 (API 30-025-pending; Appl. No. pMAM1712856748) – Unit O, Section 26, T. 23 S., R. 33 E., NMPM, Lea County, New Mexico.

Mr. Pattee:

OCD was notified that Kaiser-Francis Oil Company is protesting this application for approval of a salt water disposal well. Kaiser-Francis Oil Company has been identified as an affected person for the proposed salt-water disposal well. Therefore, you are being notified that if OWL SWD Operating, LLC wishes for this application to be considered, it must either go to hearing or may be reviewed administratively if the protest is withdrawn as a result of a negotiated resolution with this party. The application will be retained by OCD, but suspended from further administrative review. Please contact OCD once you have made a decision regarding the application within the next 30 days. If the protest remains after 30 days, OCD will initiate the process for the application to be reviewed at hearing. Please contact me with any questions regarding this matter.

Contact for Kaiser-Francis Oil Company
Michael D. Maxey
Landman
PO Box 21468
Tulsa Oklahoma 74121-1468
e-mail: mikema@kfoc.net
Phone: 918.491.4424

MICHAEL A. MCMILLAN

Engineering Bureau, Oil Conservation Division
1220 south St. Francis Dr., Santa Fe NM 87505
O: 505.476.3448
Michael.McMillan@state.nm.us

KAISER-FRANCIS OIL COMPANY

P. O. BOX 21468

TULSA, OKLAHOMA 74121-1468

6733 South Yale Avenue, 74136
(918) 494-0000

May 19, 2017

Via e-mail

Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

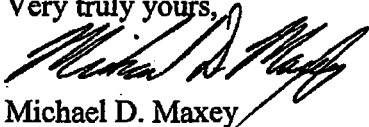
Re: OWL SWD Operating, LLC
Administrative SWD application

Brininstool SWD #4
330' FSL and 2,350' FEL §26-23S-33E
Lea County, New Mexico

Ladies and Gentlemen:

Kaiser-Francis Oil Company ("KFOC") objects to the above application, which requests permission to inject into the Devonian Formation at 17,100 – 18,500 feet subsurface. KFOC owns Devonian leasehold acreage within the one-half mile area of review for the SWD well. KFOC notes that there is Devonian production near the proposed injector, thus approval of the application will adversely affect KFOC's offsetting acreage.

Very truly yours,



Michael D. Maxey

cc: steve@lonquist.com

KAISER-FRANCIS OIL COMPANY

P. O. BOX 21468

TULSA, OKLAHOMA 74121-1468

6733 South Yale Avenue, 74136
(918) 494-0000

July 17, 2017

Via e-mail

Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: OWL SWD Operating, LLC
Administrative SWD application

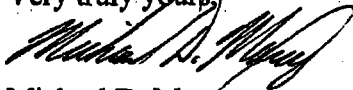
Brininstool SWD #4
330' FSL and 2,350' FEL §26-23S-33E
Lea County, New Mexico

Ladies and Gentlemen:

Kaiser-Francis Oil Company ("KFOC") had objected to the above application, which requests permission to inject into the Devonian Formation at 17,100 – 18,500 feet subsurface. KFOC owns Devonian leasehold acreage within the one-half mile area of review for the SWD well. KFOC noted that there is Devonian production near the proposed injector, thus approval of the application will adversely affect KFOC's offsetting acreage.

After further analysis and discussion with the applicant, KFOC hereby withdraws its protest.

Very truly yours,



Michael D. Maxey

cc: steve@lonquist.com



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<u>C 02282</u>			LE	3	1	1	25	23S	33E	638098	3572436*	325	225	100
<u>C 02283</u>			LE	4	2	2	26	23S	33E	637896	3572431*	325	225	100
<u>C 02284</u>			LE	4	2	4	26	23S	33E	637907	3571626*	325	225	100

Average Depth to Water: 225 feet

Minimum Depth: 225 feet

Maximum Depth: 225 feet

Record Count: 3

PLSS Search:

Section(s): 22-27, 34-36 Township: 23S Range: 33E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/17/17 11:16 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



C-108 Review Checklist:

5/8

Received: Add. Request: Reply Date: Suspended: [Ver 15]

ORDER TYPE: WFX / PMX / SWD Number: Order Date: Legacy Permits/Orders:

Well No. 14 Well Name(s): Brinninstool SWD

API: 30-0 25-Pending Spud Date: New or Old: (UIC Class II Primacy 03/07/1982)

Footages 2350 FEL Lot or Unit 2 Sec 24 Tsp 23S Rge 33E County LEC

General Location: 2.15 miles NW JAL Pool: SWD's DEVLON Pool No.:

BLM 100K Map: JAL Operator: OWLS SWD OGRID: 308339 Contact: Steve Patten, Agent

COMPLIANCE RULE 5.9: Total Wells: 18 Inactive 0 Fincl Assur: OK Compl. Order? NA IS 5.9 OK? Y Date: 8-14-2017

WELL FILE REVIEWED ☐ Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging:

Planned Rehab Work to Well:

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned or Existing Surface	26" / 20"	1850	3315	SURFACE / VISUAL
Planned or Existing Interm/Prod	17 1/2" / 13 3/4"	5300	1760	SURFACE / VISUAL
Planned or Existing Interm/Prod	12 1/4" / 9 5/8"	12200	1780	SURFACE / VISUAL
Planned or Existing Prod/Liner	8 1/2" / 17"	17100	800	1200 / C-B-L*
Planned or Existing Liner				
Planned or Existing OH/PERF	17100 / 18500			

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		WD	16696
Confining Unit: Litho. Struc. Por.		DV	17120
Proposed Inj Interval TOP:			
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 18500 PBDT 45" inside

NEW TD NEW PBDT SURFACE

NEW Open Hole ☒ or NEW Perfs ☐ int

Tubing Size 4 1/2" in. Inter Coated? X 2 1/2" - 2 1/2"

Proposed Packer Depth 1700 ft

Min. Packer Depth 1700 (100-ft limit)

Proposed Max. Surface Press. 3405 psi

Admin. Inj. Press 3420 (0.2 psi per ft) 50

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NA Noticed? BLM Sec Ord ☐ WIPP ☐ Noticed? Salt/Salado T: 180 B: 520 NW: Cliff House fm

FRESH WATER: Aquifer Brinninstool Max Depth 225 HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: Brinninstool CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 3 FW Analysis Y

Disposal Fluid: Formation Source(s) Devonian, Bone Spring Analysis? On Lease ☐ Operator Only ☐ or Commercial ☒

Disposal Int: Inject Rate (Avg/Max BWPD): 246 / 318 Protectable Waters? Source: System: Closed or Open

HC Potential: Producing Interval? NA Formerly Producing? Method: Logs/DST/P&A/Other regional 2-Mile Radius Pool Map ☐

AOR Wells: 1/2-M Radius Map? Y Well List? Y Total No. Wells Penetrating Interval: 0 Horizontals? ☐

Penetrating Wells: No. Active Wells 0 Num Repairs? on which well(s)? Diagrams?

Penetrating Wells: No. P&A Wells 0 Num Repairs? on which well(s)? Diagrams?

NOTICE: Newspaper Date May 12, 2017 Mineral Owner BLM Surface Owner Christine Brinninstool N. Date 5-17-2017

RULE 26.7(A): Identified Tracts? Y Affected Persons: EDG, KAISEN, FRATZ, DEVON N. Date 5-10-2017

Order Conditions: Issues: Run C-B-L 500' top of liner to base of liner

Add Order Cond: