

Initial Application Part I

Received: 07/19/2019

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

RECEIVED: 07/19/2019	REVIEWER:	TYPE: SWD	APP NO: pMAM1920038954
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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: AWR Disposal LLC **OGRID Number:** 328805
Well Name: Butkus SWD #1 **API:** _____
Pool: Proposed: SWD, Devonian, Fusselman, Montoya **Pool Code:** 97869

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

SWD-2200

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

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

- 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.

June 26, 2019

Date

Randall Hicks (agent)

Print or Type Name

505 238 9515

Phone Number

r@rthicksconsult.com

e-mail Address

Signature

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 & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name BUTKUS SWD	⁶ Well Number #1
⁷ OGRID No. 328805	⁸ Operator Name AWR DISPOSAL, LLC	⁹ Elevation 3411'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	23-S	34E	-	434'	SOUTH	207'	EAST	LEA

¹¹Bottom 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
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¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

X=819797.23 Y=467800.91	X=822436.57 Y=467821.32	X=825075.36 Y=467842.06
X=819820.57 Y=465162.95	X=825098.45 Y=465201.95	
X=819843.48 Y=462522.33	X=822482.35 Y=462543.86	X=825122.01 Y=462564.30

17 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.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

18 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 to the best of my belief.

06/14/2019

Date of Survey _____

Signature and Seal of Professional Surveyor _____

Certificate Number _____

SURFACE LOCATION
NEW MEXICO EAST
NAD 1983
X=824911
Y=462996
LAT.: N 32.2695192
LONG.: W 103.4158667

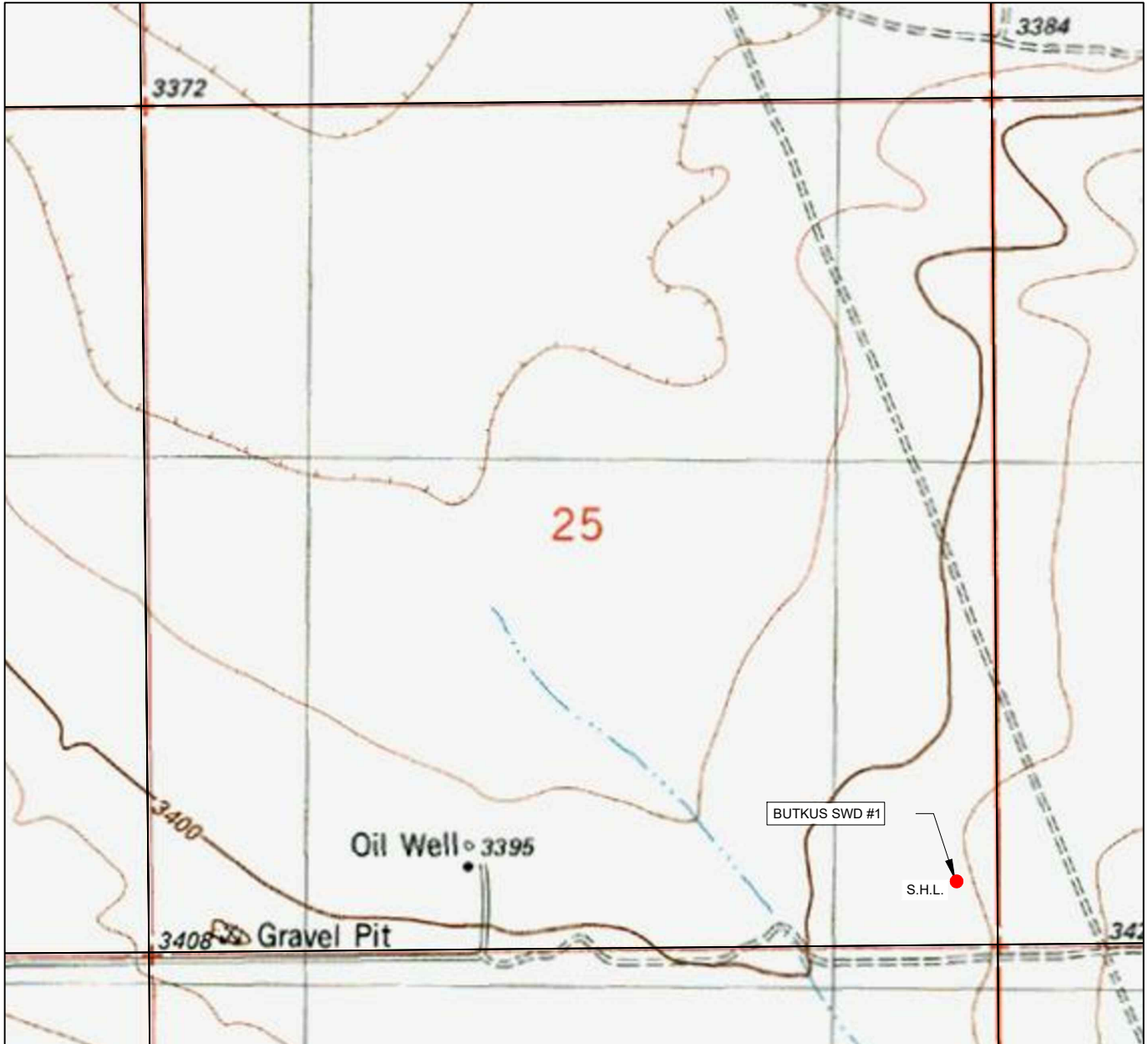
207'

434'

11401

REGISTERED PROFESSIONAL SURVEYOR

LOCATION & ELEVATION VERIFICATION MAP



AWR DISPOSAL, LLC

LEASE NAME & WELL NO.: BUTKUS SWD #1

SECTION 25 TWP 23-S RGE 34E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3411'
 DESCRIPTION 434' FSL & 207' FEL

LATITUDE N 32.2695192 LONGITUDE W 103.4158667



SCALE: 1" = 1000'
 0' 500' 1000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY AWR DISPOSAL, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

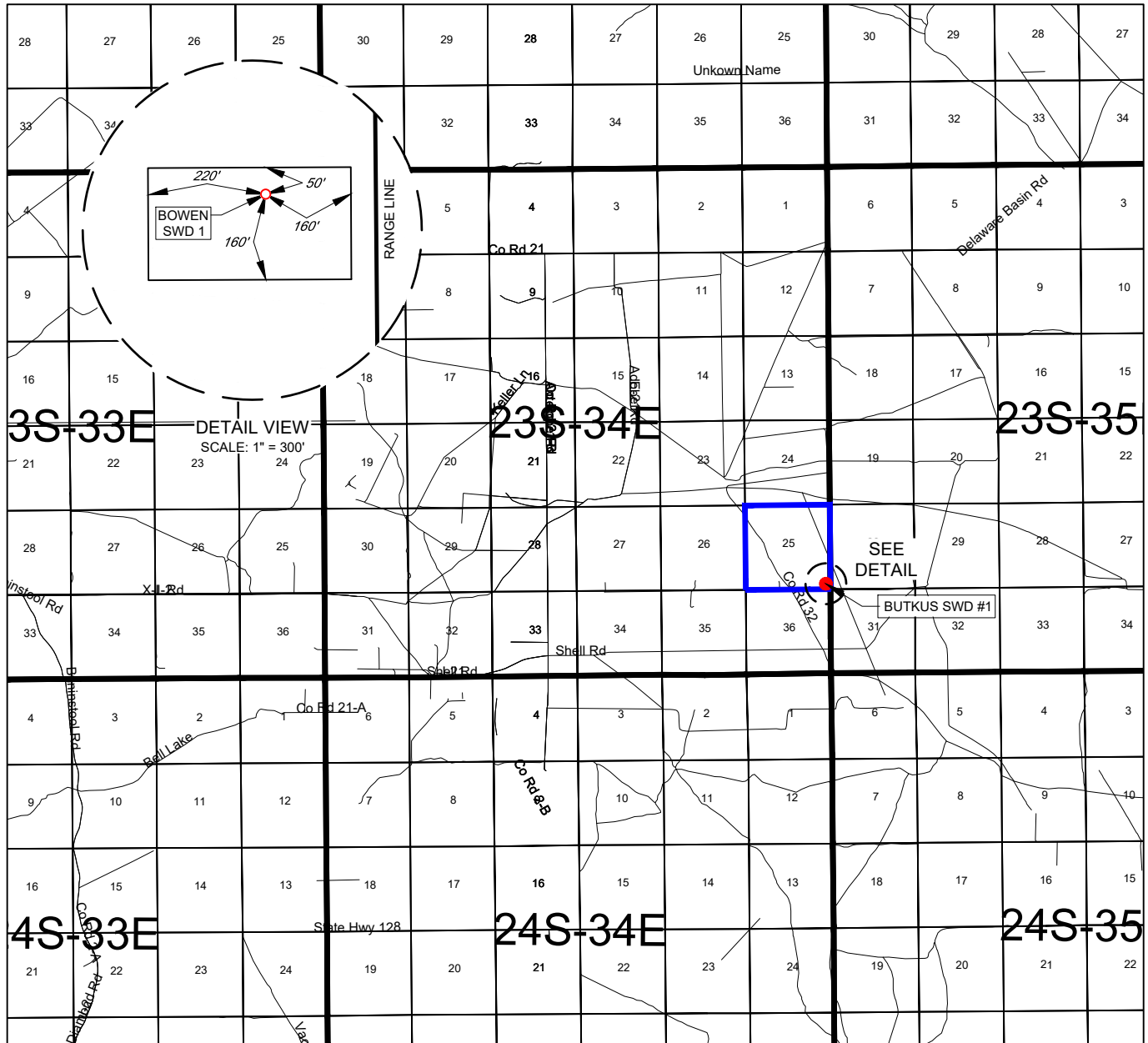
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET.



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

EXHIBIT 2 VICINITY MAP



AWR DISPOSAL, LLC

LEASE NAME & WELL NO.: BUTKUS SWD #1

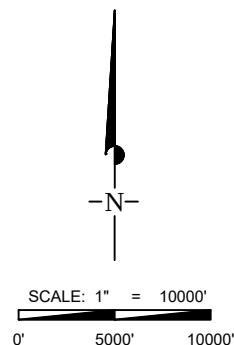
SECTION 25 TWP 23-S RGE 34E SURVEY N.M.P.M.
 COUNTY LEA STATE NM
 DESCRIPTION 434' FSL & 207' FEL

DISTANCE & DIRECTION

FROM INT. OF NM-128 & DELAWARE BASIN RD., GO NORTH ON DELAWARE
 BASIN RD. ± 3.0 MILES, THENCE GO EAST ON COUNTY RD. 21 ± 2.3 MILES,
 THENCE NORTH ON ANTELOPE RD. ± 0.75 MILES, THENCE EAST ON A ROAD
 ± 3.3 MILES TO A POINT ± 370 FEET SOUTH OF THE LOCATION.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY
 SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA
 PROVIDED BY AWR DISPOSAL, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES
 SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS
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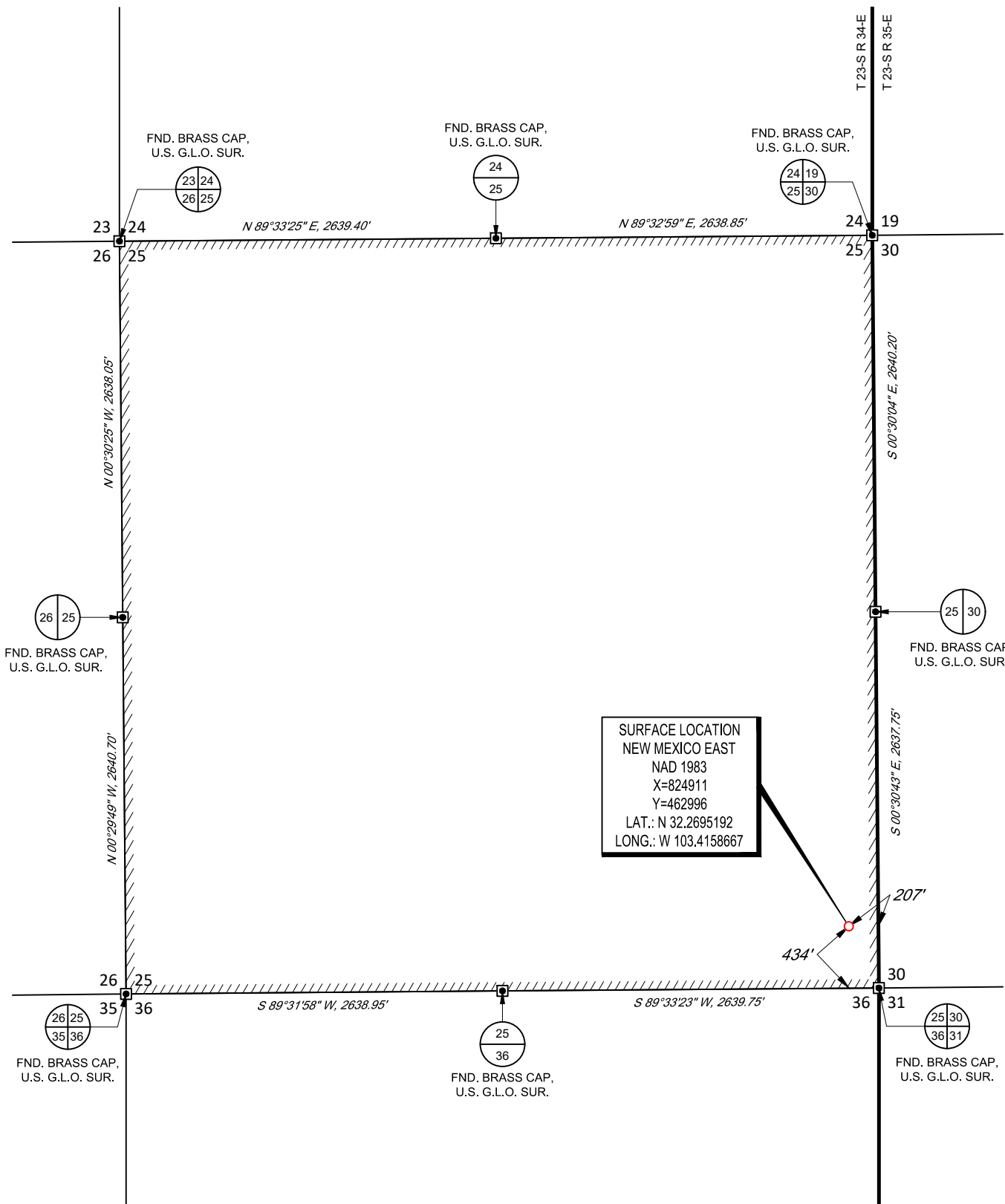
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 WWW.TOPOGRAPHIC.COM

EXHIBIT 2A
AWR DISPOSAL, LLC

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 25, TOWNSHIP 23-S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: BUTKUS SWD #1

SECTION 25 TWP 23-S RGE 34E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 434' FSL & 207' FEL

DISTANCE & DIRECTION
FROM INT. OF NM-128 & DELAWARE BASIN RD., GO NORTH ON DELAWARE
BASIN RD. ±3.0 MILES. THENCE GO EAST ON COUNTY RD. 21 ±2.3 MILES.
THENCE NORTH ON ANTELOPE RD. ± 0.75 MILES. THENCE EAST ON A ROAD
± 3.3 MILES TO A POINT ±370 FEET SOUTH OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE OF THE NORTH
AMERICAN DATUM 1983, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND
UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF
SURVEY, AND DATA PROVIDED BY AWR DISPOSAL, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO
THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS
SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



John Trevor Carnegie, P.S. No. 11401
JUNE 14, 2019

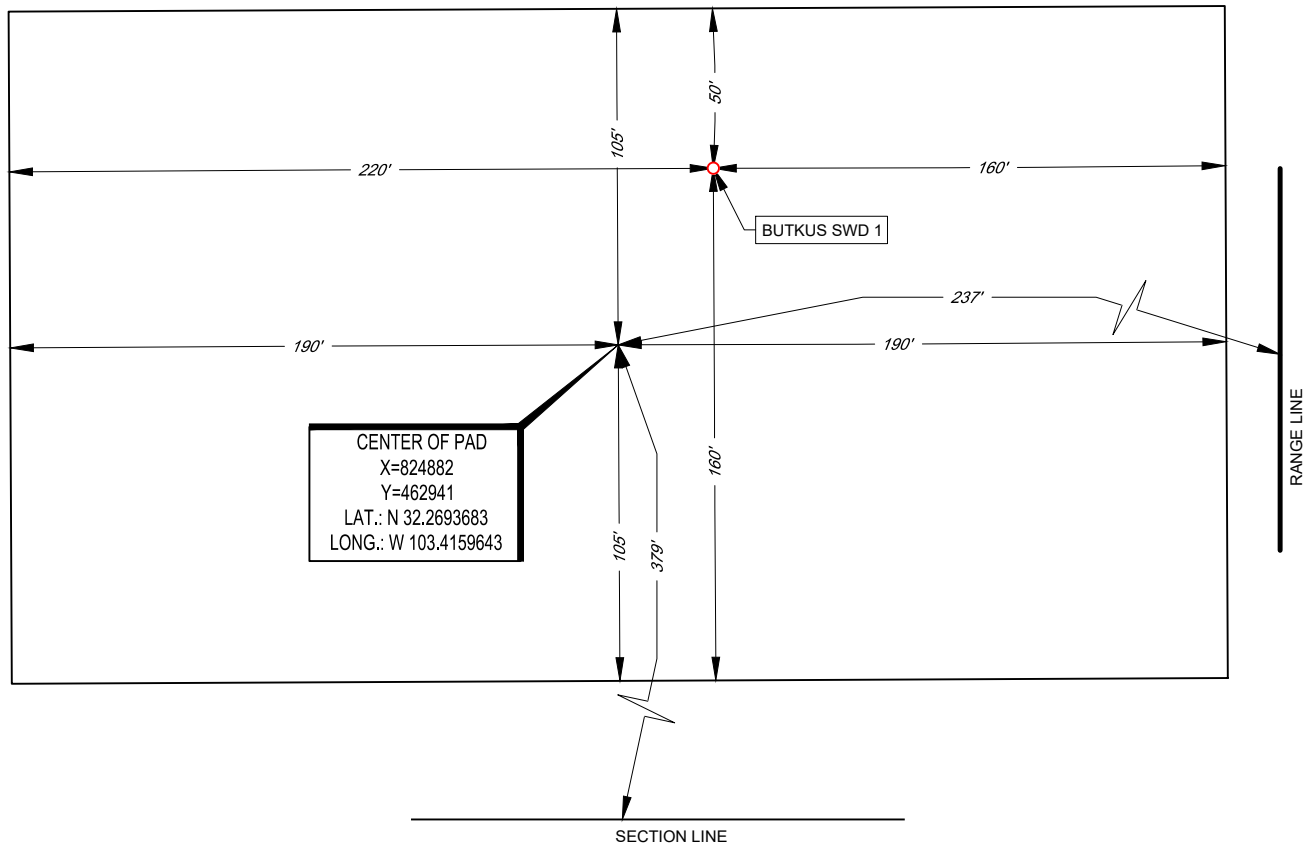


TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

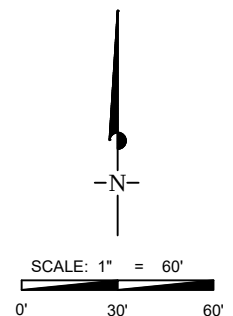
EXHIBIT 2B
AWR DISPOSAL, LLC

SECTION 25, TOWNSHIP 23-S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: BUTKUS SWD #1
#1 LATITUDE N 32.2695192 #1 LONGITUDE W 103.4158667

CENTER OF PAD IS 379' FSL & 237' FEL



ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE OF THE NORTH
AMERICAN DATUM 1983, U.S. SURVEY FEET

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER
MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY,
AND DATA PROVIDED BY AWR DISPOSAL, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE
PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS
SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.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: AWR Disposal, LLC.
ADDRESS: 3300 N. A Street, Ste 220, Midland, TX 79705
CONTACT PARTY: Randall Hicks (Agent) PHONE: 505 238 9515
- 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: Randall Hicks TITLE: Agent
SIGNATURE:  DATE: 06/26/2019
E-MAIL ADDRESS: R@rthicksconsult.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

INJECTION WELL DATA SHEET

OPERATOR: AWR Disposal LLC.WELL NAME & NUMBER: Butkus SWD #1

WELL LOCATION:	<u>434 FSL 207 FEL</u>	<u>P</u>	<u>25</u>	<u>23S</u>	<u>34E</u>
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC**WELL CONSTRUCTION DATA**Surface CasingHole Size: See Attachments Casing Size: _____Cemented with: _____ sx. **or** _____ ft³

Top of Cement: _____ Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. **or** _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. **or** _____ ft³

Top of Cement: _____ Method Determined: _____

Total Depth: _____

Injection Interval

_____ feet to _____

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: See Attachments Lining Material: _____

Type of Packer: _____

Packer Setting Depth: _____

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: Proposed: SWD, Devonian, Fusselman, Montoya

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 _____

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

Attachments to C-108

Copy of well bore diagram

Section III-XII Written descriptions to supplement C-108

Plates referenced in written descriptions

Tables referenced in written descriptions

OSE well logs referenced in written descriptions

Section XIII Proof of Notice

Directions to the Butkus SWD #1

Date Spudded: TBD

From Carlsbad:

AWR Disposal LLC

Lease Name: Butkus SWD #1

Unit Letter P, Sec. 25, T23S R34E

434' FSL, 207' FEL

Lea County, NM

Latitude + 32°16'10.26"N, Longitude 103°24'57.12"W

20", 133#, J-55 casing @ 1,050'.
Cmt w/ 450 sks, 13.7 lead and 450 sks,
14.8 tail

24" Hole

13-3/8", 68# L-80 EZ-GO FJ3 casing @ 4,550'.
DV Tool w/ 10' pkr at 4,000'

1st Stg Cmt w/ 1000 sks 11.8 ppg lead & 400 sks 13.2 ppg
tail.

2nd Stg Cmt w/ 1000 sks 11.8 ppg lead & 380 sks 13.2 ppg
tail.

17.5" Hole

9-5/8", 35.5#, HCP-110 BTC casing @ 11,750'.

Upper DV Tool w/ 10' pkr at 7,000'
Lower DV Tool w/ 10' pkr at 9,000'

1st Stg Cmt w/ 600 sks 11.8 ppg lead &
400 sks 13.2 ppg tail.

2nd Stg Cmt w/ 600 sks 11.8 ppg lead &
380 sks 13.2 ppg tail.

3rd Stg Cmt w/ 600 sks 11.8 ppg lead &
380 sks 13.2 ppg tail.

12.25" Hole

5.5" Tubing

5" Tubing

7-5/8" Liner, 39#, P-110 casing @ 15,250'.
Cmt w/ 230 sks 11.9 ppg Class C

Maximum Proposed Injection Rate: 40,000 BBL S PER DAY

Maximum Proposed Injection Pressure: 3,050 psi

Injection Interval: 8.5" Hole

Packer set @ 15,170

15,250	-	16,369	SLRN
16,369	-	16,879	FSLM
16,879	-	17,202	MNTY

6.5" Openhole

TD: 17,202

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

Lease Name: Butkus SWD #1

Unit Letter P, Section 25, T23S R34E, 434 FsL, 207 FEL

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

The attached Wellbore Data Sheet provides all of the design specifics required and a tabulation of these data are shown on the diagram.

The formation tops for the Butkus SWD #1 were established by Geologist Herb Wacker TBPG license #4517. The tops were picked in part by using the offset open hole logs of the surround wells. The Woodford formation top and deeper formations were correlated with open hole logs and picked using the three nearest wells drilled below the Simpson formation.

3. A description of the tubing to be used including its size, lining material, and setting depth

5-1/2" (20#) internal plastic-coated tubing swaged down to 5" (18#) with setting depth of 15,170'.

4. The name, model, and setting depth of the packer used or a description of any other seal system or assembly used

Tryton Tools, 7" Arrow Set 1-X Nickel Plated Injection Packer will be set at 15,170'.

AWR 03 Butkus	GL	3409 est
	KB	3439
	MD	SS
Quaternary	43	3396
Dockum	204	3235
Santa Rosa	211	3228
Dewey Lake	537	2902
Rustler	923	2516
Salt	1333	2106
Castile	3679	-240
Yates	4604	-1165
Capitan Reef	4757	-1318
Delaware	5191	-1752
Bell Canyon	5216	-1777
Cherry Canyon	6132	-2693
Brushy Canyon	7530	-4091
Bone Spring	8729	-5290
1st BS Sand	9846	-6407
2nd BS Sand	10330	-6891
3rd BS Sand	11330	-7891
Wolfcamp	11629	-8190
Strawn	12208	-8769
Atoka	12451	-9012
Morrow	13243	-9804
Miss Upper	14071	-10632
Barnett	14108	-10669
Miss Limestone	14590	-11151
Woodford	14980	-11541
Silurian	15216	-11777
Fusselman	16369	-12930
Montoya	16879	-13440
Simpson	17232	-13793
Top of Interval	15250	
Bottom of Interval	17202	
TD	17202	

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

The proposed injection intervals include the Silurian, Fusselman, and Montoya Formations in an open-hole interval.

(2) The injection interval and whether it is perforated or open-hole.

The depth interval of the open-hole injection interval is 15,250-17,202 (1,952 feet).

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

The well will be drilled for disposal.

(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

There are no perforated intervals, only the open-hole completion described above.

(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.

Tops for the Butkus SWD #1 well were picked in part by using the offset open hole logs on the surrounding wells. The Woodford formation top and deeper formations were correlated with open hole logs and picked using the formation thicknesses of the three nearest wells drilled below the Simpson formation.

Overlying Oil & Gas Zone (Using GL of 3536'):

Delaware (5191')
1st BS Sand (9846')
2nd BS Sand (10,330')
3rd BS Sand (11,330')
Wolfcamp (11,629')
Strawn (12,208')
Atoka (12,451')
Morrow (13,243')
Mississippian Limestone (14,590')

Underlying Oil & Gas Zones:

Silurian (15,216')

Inactive Siluro-Devonian 1962-66 Distance: 2.6 miles due west

API-3002508486

The proposed injection intervals in the Pre-Mississippian Carbonates are well cemented and will provide the necessary open hole integrity while allowing salt water to be injected. Because of the competency of the rock, the open hole section has very little chance of collapsing.

IV. Is this an expansion of an existing project

No.

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

- Plate 1a identifies all OCD listed wells and API numbers and shows circles with radio of 0.5, 1.0, and 2.0 miles. Note that where numerous wells are closely-spaced, the API number may not be labeled for clarity. New wells, active wells, plugged wells, and canceled wells have color-coded symbols.
- Plate 1b shows only new and active wells and circles with radio of 0.5 and 1.0 miles.
- Table 1 lists all of the wells shown on Plate 1a within the circle having a 2.0 mile radius.
- Plate 2 shows all of the leases and the leaseholder name within the 2-mile area of review. Tabular listing of all mapped leases are presented in
- Table 2a BLM leases
- Table 2b State of NM leases
- Table 2c Surface Owners

The State of New Mexico owns the land surface of the SWD location.

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

According to the data presented in Table 1, there are no active or plugged wells that penetrate the injection zone.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected

Proposed Maximum Injection Rate: 40,000 bbl/day

Proposed Average Injection Rate: 30,000 bbl/day

2. Whether the system is open or closed

This will be an open system. All AWR Disposal LLC SWDs may receive produced water and recycled produced water from storage facilities, such as in-ground containments or above-ground steel-walled containments, which are registered or permitted under Rule 34.

3. Proposed average and maximum injection pressure

Proposed Maximum Injection Pressure: 3,050 psi

Proposed Average Injection Rate: 2,000 psi

4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water

The attached Table 3 “Produced Water Chemistry of Nearby Wells” provides the requisite analyses. The Delaware and Bone Springs Formations are the subjects of the analyses. These formations will provide most of the produced water to the proposed SWD. At the time of writing, we are unaware of any problems associated with disposal of produced water derived from the Delaware, Avalon, and Bone Springs Formations into the Silurian/Fusselman/Montoya injection zone.

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.).

Table 4 presents formational water quality data from the Go-Tech site for Devonian-Fusselman-Montoya producing wells. As stated above, we are unaware of any problems associated with disposal of produced water derived from the Delaware, Avalon, and Bone Springs Formations into the Silurian/Fusselman/Montoya injection zone.

***VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth.**

The proposed injection intervals include the Silurian, Fusselman, and Montoya Formations in an open-hole interval. The proposed injection intervals in the Pre-Mississippian Carbonates are well cemented and will provide the necessary open hole

integrity while allowing salt water to be injected. Because of the competency of the rock, the open hole section has very little chance of collapsing.

As indicated in Section III.A.2, the approximate depths to the top of the Silurian and the base of the Montoya are 14,980' and 17,232' respectively. The depth interval of the injection interval is 15,250-17,202 (1,952 feet), within the Silurian, Fusselman, and Montoya Formations.

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.

The Chinle Formation yields water to supply wells in this area of Lea County. In the immediate area of the Butkus SWD #1, the closest mapped water well shown in Plate 3 is CP-614, which is the same well as USGS-14708 and Misc-181. Examination of Google Earth images suggests that the USGS database mis-located the well by about ½ mile and such minor errors in the database are not uncommon. We found no data regarding the total depth of the well, but the USGS suggests that it draws water from the Santa Rosa Sandstone (base of Chinle).

Limestone Ranch has filed an application for a water supply well tapping the Santa Rosa Sandstone of the Chinle (CP-1708) about 3000 feet west of the proposed SWD. According to the Artesian Well Plan of Operations, the Santa Rosa aquifer is at least 350 feet thick and lies between 750-1100 feet below land surface. Note that this estimate of the depth of the Santa Rosa Sandstone contrasts to that provided in the formation tops table developed by examination of nearby oil well logs, which suggests the depth interval of the Santa Rosa Sandstone is 211-537 feet below surface.

The nearest well with driller's log data is C-606, which is about 2 miles to the northwest (up dip). This log suggests that numerous water-bearing zones were encountered between 347-575 feet below land surface. This well is close to the same elevation as the proposed well CP-1708 and may be, more or less, at the same stratigraphic interval. Thus, this well may draw water from thin Chinle sand units above the Santa Rosa, if the evaluation presented in CP-1708 is correct or this well may draw water from the Santa Rosa if the formation tops table is correct.

The table of formation tops also suggests that the underlying red beds of the Dewey Lake (aka Quartermaster) Formation are about 400 feet thick and overlie the top of the Rustler Formation at a depth of about 923 feet. To our knowledge the red beds of the Dewey Lake are not considered an underground source of drinking water.

The upper portion of the Rustler Formation yields fresh water to wells in Eddy County and in the area of the Butkus SWD #1, the depth interval of this potential source of fresh (<10,000 mg/L TDS) water is about 923-1333 feet. At the time of writing, the Rustler is not used as a fresh water supply in this area and, to our knowledge, have not been tested as a fresh water (<10,000 mg/L TDS) unit. In this area, the bottom 350+ feet of the 410-

foot thick Rustler Formation is characterized by evaporates (anhydrite) and is not considered an underground source of drinking water. Thus, in this area, surface casing required by OCD to prevent impairment of fresh water runs from ground surface to a depth of 1050 feet at the proposed Butkus SWD #1.

As stated above, there are no active water supply wells within 1.5 miles of the proposed location. The location of nearby mapped surface water bodies are shown in Plate 4. No mapped surface water exists within the Area of Review.

Fresh water does not exist in any formations below the proposed injection zone.

IX. Describe the proposed stimulation program, if any

A cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

***X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)**

Logs will be submitted to OCD upon completion of the well.

***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**

No active water supply wells were identified within one mile of the proposed SWD. Data from various sources permit a conclusion that groundwater within the Chinle Formation and Santa Rosa Sandstone is potable. In this area, groundwater in the underlying Rustler formation may be relatively brackish.

As stated in an earlier section, a proposed water supply well completed into the Santa Rosa Formation is about 3000 feet west of the Butkus SWD #1.

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

Randall T. Hicks, a Professional Geologist with decades of experience in hydrogeology, affirms, on behalf of AWR Disposal LLC, that

- The USGS has mapped quaternary faults in New Mexico and no such faults are mapped in the area of the proposed Butkus SWD #1¹
- The Texas Bureau of Economic Geology has mapped older faults in New Mexico and the closest mapped faults are
 - A Pre-Cambrian fault that was not re-activated in Woodford time lies less than 1/4 mile to the west.
 - A Basement fault that was reactivated during Woodford time lies 2.7 miles to the west²
- With respect to migration of produced water from the injection zone to underground sources of drinking water via faults or other natural conduits, the following conditions were considered
 - The lowest underground source of drinking water is the middle and upper Rustler Formation.
 - More than 10,000 feet of sedimentary rock separates the bottom of the Rustler Formation and the top of the injection zone. Many of the formations that lie between the injection zone and the lowermost aquifer are permeable and contain oil, gas or water at various pressures, depending upon the production of oil and gas from these reservoirs. Any excursion of injected fluids from the Silurian/Fusselman/Montoya disposal zone would undoubtedly enter these permeable formations (oil and gas reservoirs) prior entering the Rustler Formation.
 - There is no evidence that the pressure regime in the oil and gas reservoirs (e.g. Bone Spring, Morrow, Atoka) or disposal zones (e.g. Cherry Canyon) has caused the upward migration of formation water through the mapped faults and the bedded salt and into the Rustler or Chinle aquifers.
- There is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water

¹ <https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fcf>

² Bureau of Economic Geology (Accessed April 2019). University of Texas at Austin. Basement Faults (Ewing 1990, Tectonic Map of Texas); Precambrian Faults (Frenzel et al. 1988, Figure 6); Woodord Faults (Comer 1991, plate 1). <http://www.beg.utexas.edu/resprog/permianbasin/gis.htm>

Plates

Plate 1	OCD wells within the area of review
Plate 2	Mineral leases within the area of review
Plate 3	Water supply wells within the area of review
Plate 4	Surface water within the area of review

 SWD

Distance (miles)

 0.5

 1

 2

Oil and Gas (NMOCD)

 Gas, Active

 Gas, Cancelled

 Gas, New

 Gas, Plugged

 Gas, Temporarily Abandoned

 Oil, Active

 Oil, Cancelled

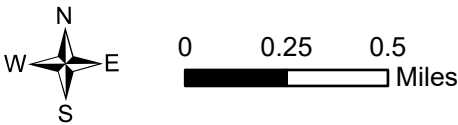
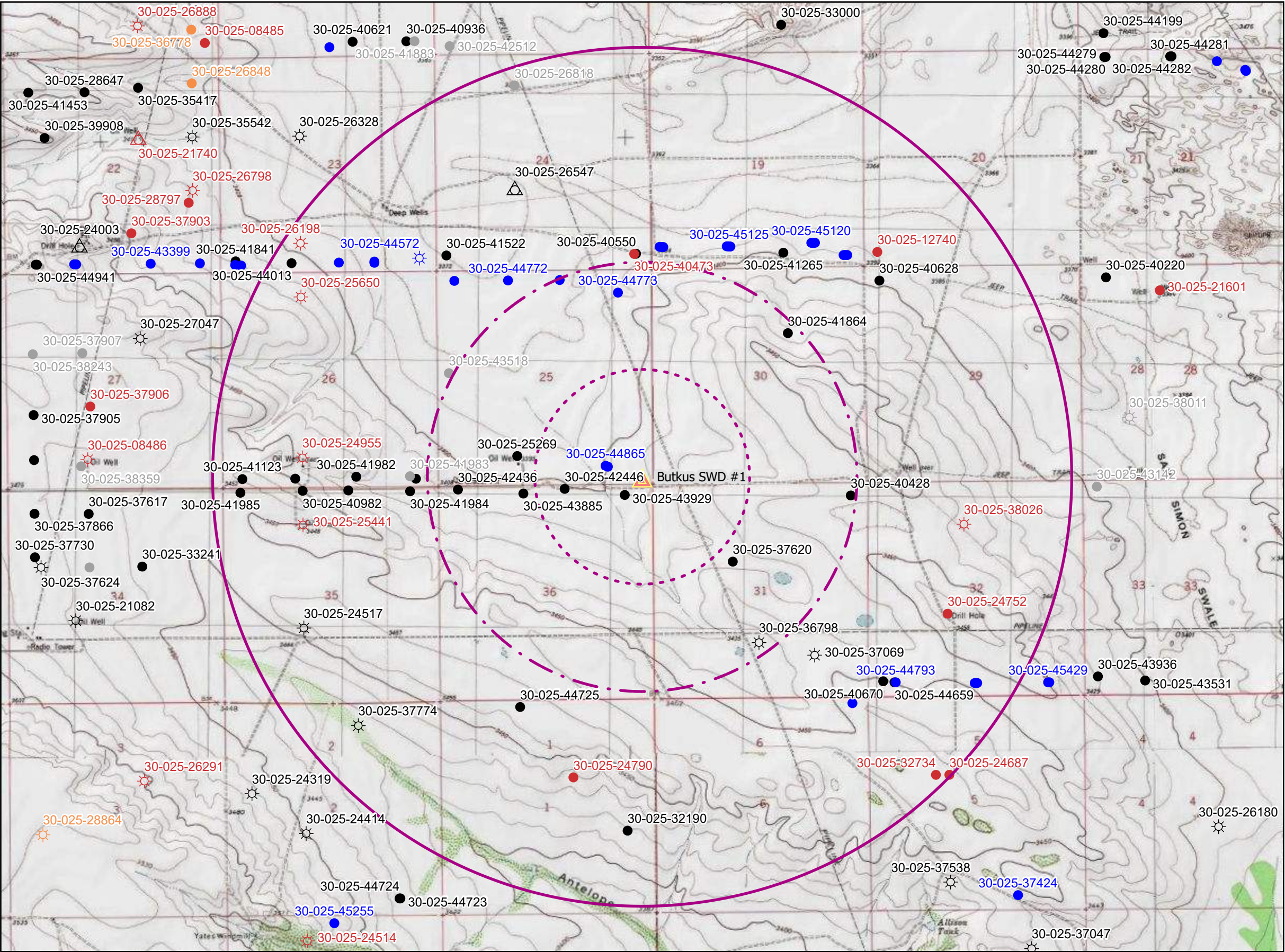
 Oil, New

 Oil, Plugged

 Oil, Temporarily Abandoned

 Salt Water Injection, Active

 Salt Water Injection, Plugged



R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	NM Oil and Gas Wells within 2 Mile	Plate 1a
	AWR Disposal LLC Butkus SWD #1	June 2019

 SWD

Distance (miles)

 0.5

 1

 2

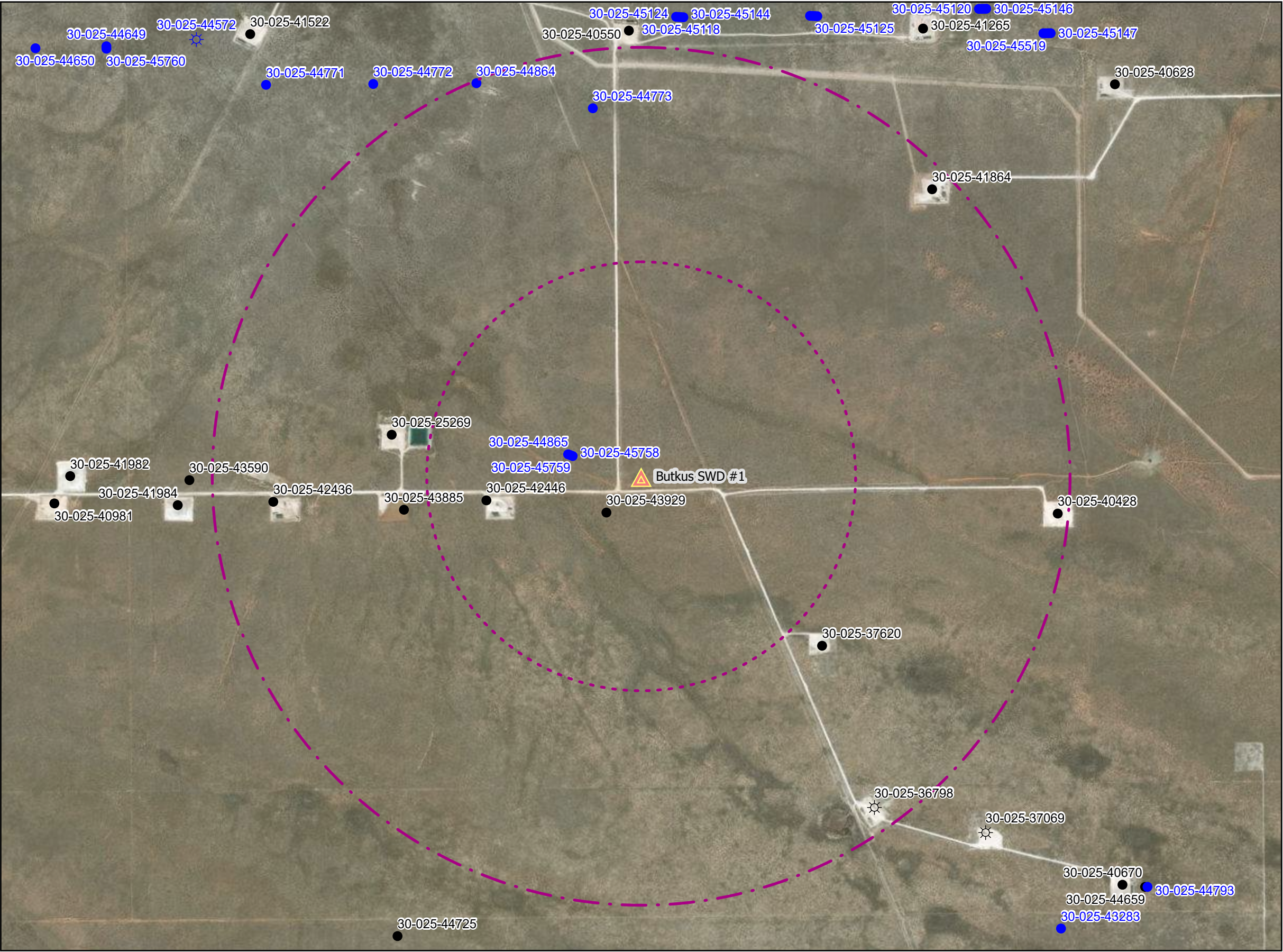
Oil and Gas (NMOCD)

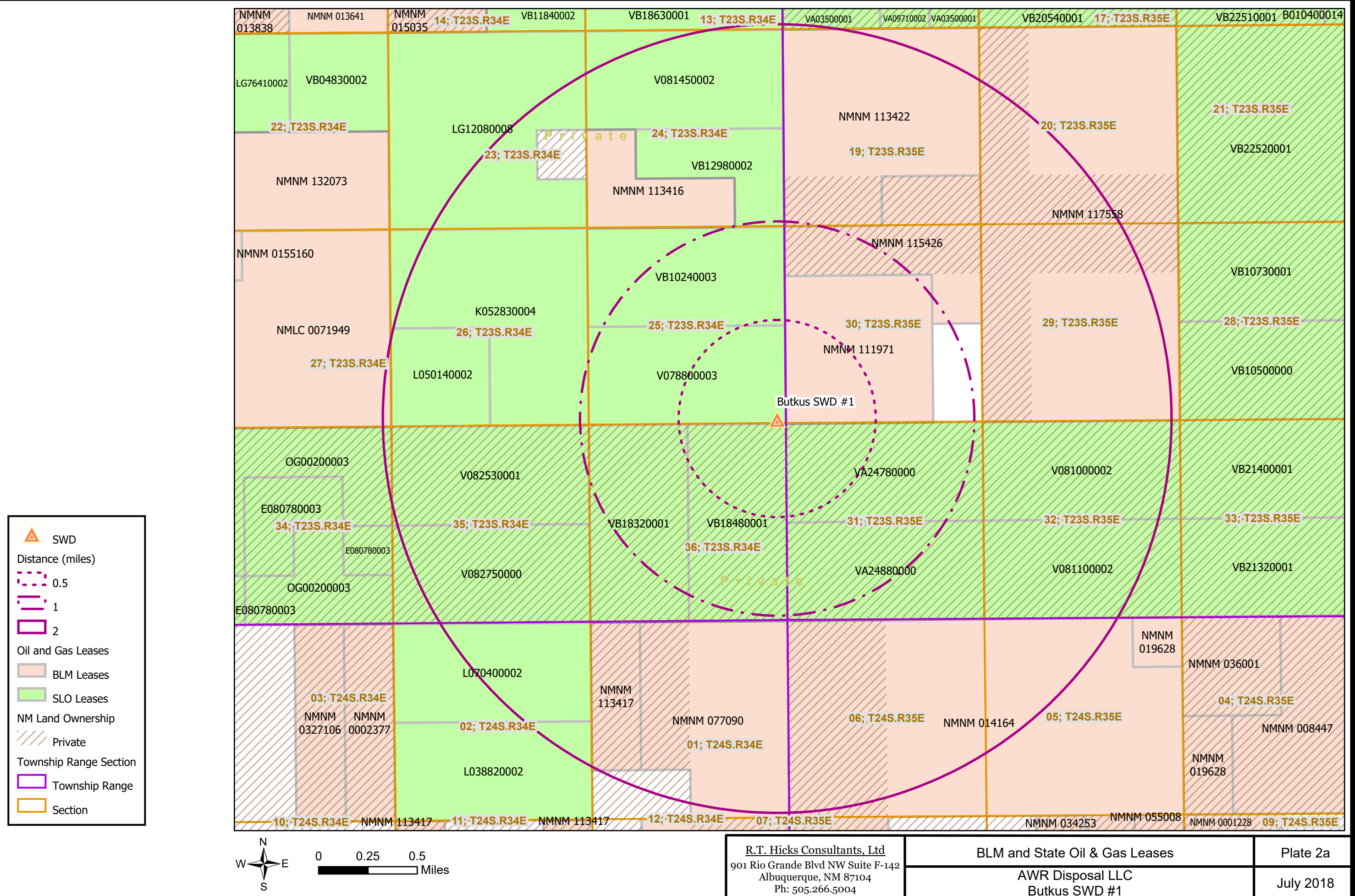
 Gas, Active

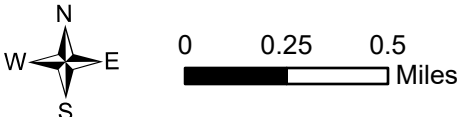
 Gas, New

 Oil, Active

 Oil, New







R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	NM Surface Ownership	Plate 2b
	AWR Disposal LLC Butkus SWD #1	July 2019

SWD

USGS Gauging Station (DTW, Date)

Aquifer Code, Well Status

Alluvium/Bolsom

Ogallala

Chinle

Santa Rosa

Not Defined

Misc. Water Wells (Well ID, DTW)

Well Depth (ft)

No Data

151 - 350

351 - 500

> 500

OSE Wells (DTW, Date)

Well Depth (ft)

No Data/Pending

151 - 350

351 - 500

501 - 1000

> 1000

Potentiometric Surface (ft msl)

Isocontours

Isocontour

NM Geology

Map Unit,Description

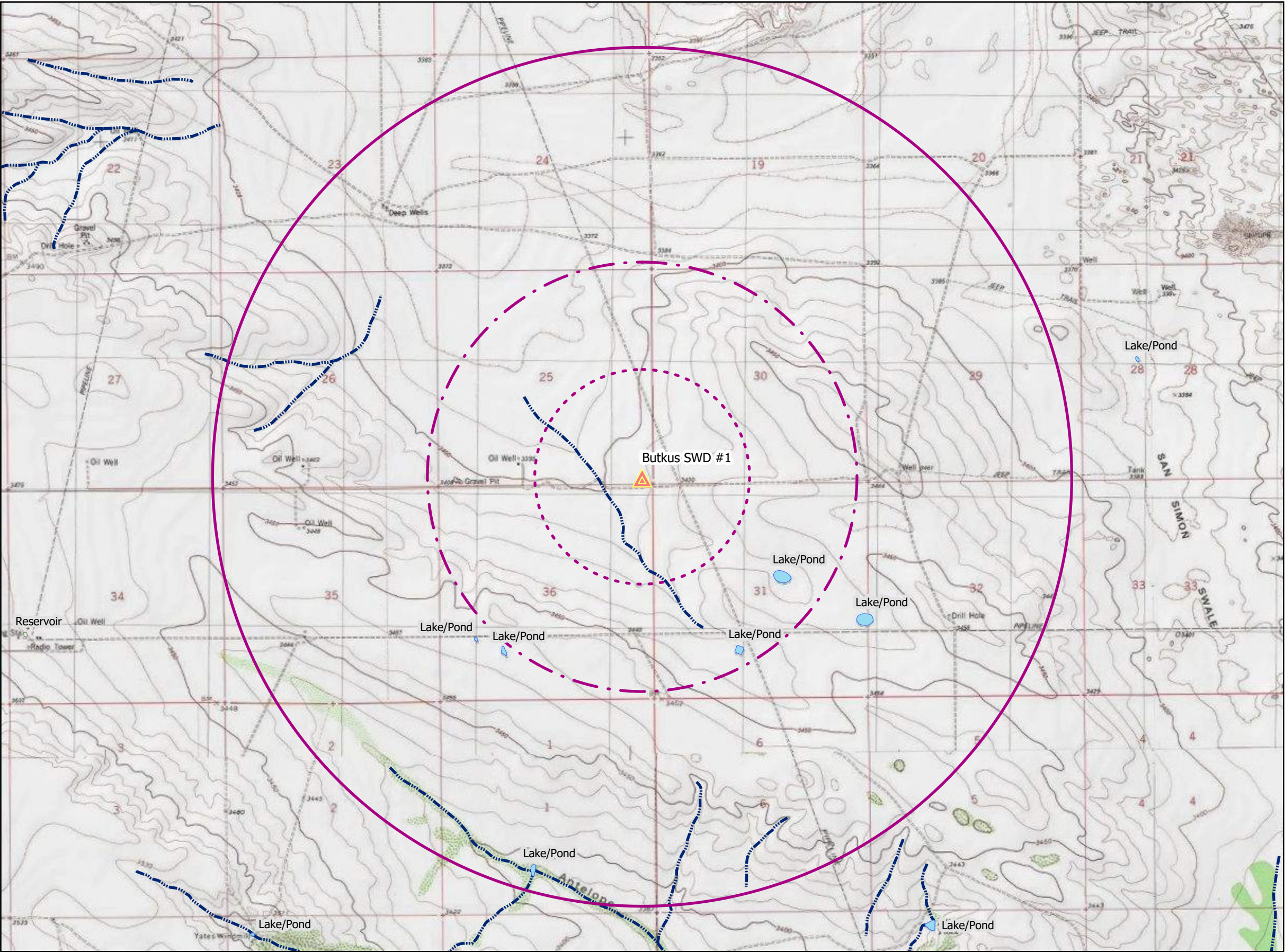
Qe/Qp, Quaternary-Eolian Piedmont Deposits

Qoa, Quaternary-Older Alluvial Deposits,Qoa, Quaternary-Older Alluvial Deposits

Qp, Quaternary-Piedmont Alluvial Deposits,Qp, Quaternary-Piedmont Alluvial Deposits

To, Tertiary-Ogallala Formation,To, Tertiary-Ogallala Formation

R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Water Wells on Potentiometric and Geography	Plate 3
	AWR Disposal LLC Butkus SWD #1 June 2019	



SWD

Distance (miles)

0.5

1

2

Water Bodies (1307)

Lake/Pond

Reservoir

River and Drainages (1307)

Stream/River Artificial Path

Intermittent Stream



R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Nearby Surface Water	Plate 4
	AWR Disposal LLC Butkus SWD #1	June 2019

Tables

Table 1	OCD wells within the area of review
Table 2a	BLM leases within the area of review
Table 2b	State leases within the area of review
Table 2c	Surface Owner
Table 3	Produced Water Chemistry of Nearby Wells
Table 4	Formational water quality data

Table 1
NM Oil and Gas Wells within 2 Miles

API	OGRID	OGRID Name	Status	Well Type	Well Name	UL-S-T-R	Total Depth	Associated Pools
30-025-12740	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	M-20-23S-35E	3947	<Null>
30-025-24517	14744	MEWBOURNE OIL CO	A	G	STATE 35 #001	K-35-23S-34E	13865	[70440] ANTELOPE RIDGE, MORROW (GAS)
30-025-24687	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	F-05-24S-35E	14248	<Null>
30-025-24752	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	K-32-23S-35E	119	<Null>
30-025-24790	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	G-01-24S-34E	5365	<Null>
30-025-24955	4323	CHEVRON U S A INC	H	G	STATE FQ GAS COM #001	N-26-23S-34E	13910	[70360] ANTELOPE RIDGE, ATOKA (GAS); [70440] ANTELOPE RIDGE, MORROW (GAS)
30-025-25269	228937	MATADOR PRODUCTION COMPANY	A	O	STATE R COM #001H	N-25-23S-34E	8846	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-25441	214263	PRE-ONGARD WELL OPERATOR	P	G	PRE-ONGARD WELL #001	C-35-23S-34E	13650	[70440] ANTELOPE RIDGE, MORROW (GAS)
30-025-25650	147179	CHESAPEAKE OPERATING, INC.	P	G	STATE EO #001	C-26-23S-34E	13871	[70440] ANTELOPE RIDGE, MORROW (GAS)
30-025-26198	280240	REGENERATION ENERGY, CORPORATION	P	G	STATE 23 #001	N-23-23S-34E	13715	[2209] ANTELOPE RIDGE, BONE SPRING, WEST; [70360] ANTELOPE RIDGE, ATOKA (GAS); [70440] ANTELOPE RIDGE, MORROW (GAS)
30-025-26547	228937	MATADOR PRODUCTION COMPANY	A	S	ANTELOPE RIDGE 24 SWD #001	K-24-23S-34E	13900	[2200] ANTELOPE RIDGE, BONE SPRING; [96100] SWD, DELAWARE
30-025-26818	214263	PRE-ONGARD WELL OPERATOR	C	O	PRE-ONGARD WELL #002	C-24-23S-34E	0	<Null>
30-025-32190	16696	OXY USA INC	A	O	FALCON FEDERAL #001	I-01-24S-34E	14150	[96230] ANTELOPE DRAW, DELAWARE
30-025-32734	16696	OXY USA INC	P	O	ANTELOPE 5 FEDERAL #001	F-05-24S-35E	8800	[66203] LEA UNDESIGNATED, GROUP 5; [96341] CINTA ROJO, DELAWARE
30-025-36798	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	G	RED BULL 31 STATE #001	N-31-23S-35E	14120	[2200] ANTELOPE RIDGE, BONE SPRING; [96341] CINTA ROJO, DELAWARE
30-025-37069	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	G	RED BULL 31 STATE #002	P-31-23S-35E	14400	[96341] CINTA ROJO, DELAWARE; [96602] CINTA ROJA, MORROW, WEST (GAS)
30-025-37620	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	RED BULL 31 STATE #003	F-31-23S-35E	10850	[2200] ANTELOPE RIDGE, BONE SPRING; [96341] CINTA ROJO, DELAWARE
30-025-37774	162683	CIMAREX ENERGY CO. OF COLORADO	A	G	STATE 1 #002	2-02-24S-34E	13900	[70360] ANTELOPE RIDGE, ATOKA (GAS); [70440] ANTELOPE RIDGE, MORROW (GAS)
30-025-38026	6137	DEVON ENERGY PRODUCTION COMPANY, LP	P	G	RED BULL 32 STATE COM #001	C-32-23S-35E	14400	[96602] CINTA ROJA, MORROW, WEST (GAS)
30-025-40428	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	RED BULL 31 STATE #004H	A-31-23S-35E	8634	[96341] CINTA ROJO, DELAWARE
30-025-40473	280240	REGENERATION ENERGY, CORPORATION	P	O	LEPAKAST STATE COM #001	P-24-23S-34E	1248	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-40550	228937	MATADOR PRODUCTION COMPANY	A	O	LEPAKAST STATE COM #001Y	P-24-23S-34E	8900	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-40628	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	RED BULL 29 FEDERAL #001H	D-29-23S-35E	8722	[96341] CINTA ROJO, DELAWARE
30-025-40670	228937	MATADOR PRODUCTION COMPANY	A	O	SHEARN STATE COM #001H	M-32-23S-35E	8724	[96341] CINTA ROJO, DELAWARE
30-025-40981	14744	MEWBOURNE OIL CO	A	O	MAD DOG 35 BO STATE COM #001H	B-35-23S-34E	11350	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-40982	14744	MEWBOURNE OIL CO	A	O	MAD DOG 35 CN STATE COM #001H	C-35-23S-34E	11364	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-41123	14744	MEWBOURNE OIL CO	A	O	MAD DOG 26 MD STATE COM #001H	M-26-23S-34E	11363	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-41124	14744	MEWBOURNE OIL CO	A	O	MAD DOG 26 B3NC STATE COM #001H	N-26-23S-34E	11399	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-41265	228937	MATADOR PRODUCTION COMPANY	A	O	BILL FEDERAL COM #001H	O-19-23S-35E	8635	[96341] CINTA ROJO, DELAWARE
30-025-41522	228937	MATADOR PRODUCTION COMPANY	A	O	LANDRETH FEDERAL COM #001H	M-24-23S-34E	11369	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-41864	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	SWEETNESS 30 STATE FED COM #001H	G-30-23S-35E	8585	[96341] CINTA ROJO, DELAWARE
30-025-41982	14744	MEWBOURNE OIL CO	A	O	MAD DOG 26 B3OB STATE #001H	O-26-23S-34E	11546	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-41983	14744	MEWBOURNE OIL CO	C	O	MAD DOG 26 B3PA STATE #001C	P-26-23S-34E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-41984	14744	MEWBOURNE OIL CO	A	O	MAD DOG 35 B3AP STATE COM #001H	A-35-23S-34E	11537	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-41985	14744	MEWBOURNE OIL CO	A	O	MAD DOG 35 B3DM STATE COM #001H	D-35-23S-34E	11329	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-42436	14744	MEWBOURNE OIL CO	A	O	TORO 36 B3DM STATE #001H	D-36-23S-34E	11572	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-42446	14744	MEWBOURNE OIL CO	A	O	TORO 36 B3BO STATE #001H	B-36-23S-34E	11685	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-43283	229137	COG OPERATING LLC	N	O	GATSBY FEDERAL COM #001H	1-06-24S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-43518	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	C	O	EXCITEBIKE 12 #001C	D-12-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-43590	14744	MEWBOURNE OIL CO	A	O	MAD DOG 26 B3PA STATE #001H	P-26-23S-34E	11532	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-43885	14744	MEWBOURNE OIL CO	A	O	TORO 36 B3CN STATE #001H	C-36-23S-34E	11658	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-43929	14744	MEWBOURNE OIL CO	A	O	TORO 36 B3AP STATE #001H	A-36-23S-34E	11698	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-44013	228937	MATADOR PRODUCTION COMPANY	A	O	FLORENCE STATE 23 23 34 AR #202H	N-23-23S-34E	11367	[98242] WC-025 G-06 S233423N, WOLFCAMP
30-025-44572	228937	MATADOR PRODUCTION COMPANY	N	G	FLORENCE STATE COM #204H	P-23-23S-34E	0	[98242] WC-025 G-06 S233423N, WOLFCAMP
30-025-44649	228937	MATADOR PRODUCTION COMPANY	N	O	FLORENCE STATE 23 23 34 AR #133H	O-23-23S-34E	0	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-44650	228937	MATADOR PRODUCTION COMPANY	N	O	FLORENCE STATE 23 23 34 AR #203H	O-23-23S-34E	0	[98242] WC-025 G-06 S233423N, WOLFCAMP
30-025-44659	228937	MATADOR PRODUCTION COMPANY	A	O	IRVIN WALL STATE COM #131H	M-32-23S-35E	11790	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
30-025-44725	229137	COG OPERATING LLC	A	O	MORTARBOARD FEDERAL COM #013H	3-01-24S-34E	11860	[96434] RED HILLS, BONE SPRING, NORTH
30-025-44771	228937	MATADOR PRODUCTION COMPANY	N	O	JEFF HART STATE COM #131H	D-25-23S-34E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-44772	228937	MATADOR PRODUCTION COMPANY	N	O	JEFF HART STATE COM #132H	C-25-23S-34E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-44773	228937	MATADOR PRODUCTION COMPANY	N	O	MICHAEL RYAN STATE COM #134H	A-25-23S-34E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-44793	228937	MATADOR PRODUCTION COMPANY	N	O	IRVIN WALL STATE COM #111H	M-32-23S-35E	0	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
30-025-44864	228937	MATADOR PRODUCTION COMPANY	N	O	JEFF HART STATE COM #133H	D-25-23S-34E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-44865	228937	MATADOR PRODUCTION COMPANY	N	O	JEFF HART STATE COM #134H	P-25-23S-34E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45118	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #111H	4-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45119	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #112H	N-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45120	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #113H	P-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45121	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #114H	P-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45122	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #121H	4-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45123	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #122H	N-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45124	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #131H	4-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45125	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #132H	N-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45126	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #134H	P-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45144	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #211H	4-19-23S-35E	0	[98242] WC-025 G-06 S233423N, WOLFCAMP
30-025-45145	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #212H	N-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45146	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #213H	P-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING; [98242] WC-025 G-06 S233423N, WOLFCAMP
30-025-45147	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #214H	P-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45428	228937	MATADOR PRODUCTION COMPANY	N	O	IRVIN WALL STATE COM #112H	O-32-23S-35E	0	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
30-025-45430	228937	MATADOR PRODUCTION COMPANY	N	O	IRVIN WALL STATE COM #132H	N-32-23S-35E	0	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
30-025-45431	228937	MATADOR PRODUCTION COMPANY	N	O	IRVIN WALL STATE COM #133H	O-32-23S-35E	0	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
30-025-45518	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #123H	P-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45519	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #124H	P-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING

Table 1
NM Oil and Gas Wells within 2 Miles

API	OGRID	OGRID Name	Status	Well Type	Well Name	UL-S-T-R	Total Depth	Associated Pools
30-025-45520	228937	MATADOR PRODUCTION COMPANY	N	O	DR IRELAND FEDERAL COM #133H	P-19-23S-35E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45758	228937	MATADOR PRODUCTION COMPANY	N	O	JEFF HART STATE COM #114H	P-25-23S-34E	0	[960] AIRSTRIP, BONE SPRING; [2200] ANTELOPE RIDGE, BONE SPRING
30-025-45759	228937	MATADOR PRODUCTION COMPANY	N	O	JEFF HART STATE COM #124H	P-25-23S-34E	0	[2200] ANTELOPE RIDGE, BONE SPRING
30-025-45760	228937	MATADOR PRODUCTION COMPANY	N	O	FLORENCE STATE COM #134H	O-23-23S-34E	0	[2209] ANTELOPE RIDGE, BONE SPRING, WEST

Lease Number	Name	Acres	Township	Range	Section	Unit Letter
NMLC 0071949	OXY USA WTP LP	600	23S	34E	27	I, P
NMNM 014164	COG OPERATING LLC	1961	24S	35E	05 06	B, C, D, E, F, L A-P
NMNM 077090	AQUINNAH RESOURCES LLC	1440	24S	34E	01	A-C, F-K, O,P
NMNM 111971	DEVON ENERGY PROD CO LP	359	23S	35E	30	E-F, J-O
NMNM 113416	ADVANCE ENERGY PARTNERS LLC	160	23S	34E	24	L-O
NMNM 113417	THE ALLAR CO	440	24S	34E	01	D, E, L
NMNM 113422	REGENERATION ENERGY CORP	557	23S	35E	19	A-L
NMNM 115426	EOG Y RESOURCES INC	279	23S	35E	19 30	O-P A-D,H
NMNM 117558	DEVON ENERGY PROD CO LP	1280	23S	35E	20 29	E, F, J-O A-P

Lease Number	OGRID Number	OGRID Name	Acres	Township	Range	Section	Unit Letter
K052830004	4323	CHEVRON U S A INC	480	23S	34E	26	A-J, O, P
L038820002	79863	BOB L JOHNSON	320	24S	34E	02	I, J
L050140002	146438	NORTEX CORPORATION	160	23S	34E	26	K-N
L070400002	79863	BOB L JOHNSON	320.16	24S	34E	02	A-D, F-H
LG12080008	261044	MRC PERMIAN COMPANY	600	23S	34E	23	A, G, H, J, K, M-P
OG00200003	272586	OXY NM LP	440	23S	34E	34	A, H
V078800003	261044	MRC PERMIAN COMPANY	320	23S	34E	25	I-P
V081000002	261044	MRC PERMIAN COMPANY	320	23S	35E	32	A-P
V081450002	371992	ADVANCE ENERGY PARTNERS, LLC	320	23S	34E	24	A-H
V082530001	14744	MEWBOURNE OIL CO	320	23S	34E	35	A-H
V082750000	123330	FEATHERSTONE DEVELOPMENT CORPORATION	320	23S	34E	35	I-P
VA03500001	25575	EOG Y RESOURCES, INC.	516.72	23S	35E	18	M, N
VA24780000	6137	DEVON ENERGY PRODUCTION COMPANY, LP	319.16	23S	35E	31	A-P
VB10240003	261044	MRC PERMIAN COMPANY	320	23S	34E	25	A-H
VB12980002	371992	ADVANCE ENERGY PARTNERS, LLC	160	23S	34E	24	I-K, P
VB18320001	90723	MEWBOURNE OIL COMPANY	320	23S	34E	36	A-P
VB18630001	25575	EOG Y RESOURCES, INC.	320	23S	34E	13	O, P

UPC	Parcel Code	Name	Acres	Township	Range	Section	Unit Letter
4201137266265		BLM	640	23S	34E	27	I, P
4201138279261	4000517820002	LIMESTONE BASIN PROP RANCH LLC	600	23S	34E	34 23	A, H A,G,H,J,K,M-P
4202136465330	4000501800020	LIMESTONE BASIN PROP RANCH LLC	40	23S	34E	23	I
4202137266266		STATE OF NEW MEXICO	640	23S	34E	26 35	A-P A-P
4202139266266		STATE OF NEW MEXICO	641	24S	34E	02	A-D,F-J
4203135253279		STATE OF NEW MEXICO	600	23S	34E	13	O, P
4203136266265		STATE OF NEW MEXICO	640	23S	34E	24 25	A-P A-P
4203138265266	4000517830004	LIMESTONE BASIN PROP RANCH LLC	640	23S	34E	36	A-P
4203139134200	4000517910001	QUAIL RANCH LLC	238	24S	34E	01	C-F,K,L
4203139136465	4000517890004	QUAIL RANCH LLC	80	24S	34E	01	M, N
4203139398265		BLM	320	24S	34E	01	A,B,G-J,O,P
4204135264266	4000501780008	LIMESTONE BASIN PROP RANCH LLC	637	23S	35E	18	M,N
4204136264200		BLM	478	23S	35E	19	A-L
4204136266463	4000501800024	LIMESTONE BASIN PROP RANCH LLC	159	23S	35E	19	M-P
4204137263682	4000517800004	LIMESTONE BASIN PROP RANCH LLC	159	23S	35E	30	A-D
4204137266332		BLM	479	23S	35E	30	E-P
4204139134267	4000517900015	QUAIL RANCH LLC	320	24S	35E	06	C,D,E,F,K-N
4204139398265		BLM	321	24S	35E	06	A,B,G,H,I,J,O,P
4205136182351	4000501800025	LIMESTONE BASIN PROP RANCH LLC	280	23S	35E	20	E, L-O
4205136332199		BLM	361	23S	35E	20	F
4205136332199		BLM	361	23S	35E	20	J
4205136332199		BLM	361	23S	35E	20	K
4205137180181	4000517800003	LIMESTONE BASIN PROP RANCH LLC	280	23S	35E	29	A-E,L,M
4205137333331		BLM	360	23S	35E	29	F-K, N,O,P
4205138266265	4000517830005	LIMESTONE BASIN PROP RANCH LLC	640	23S	35E	32	A-P
4205139267266		STATE OF NEW MEXICO	642	24S	35E	05	B-F, L
4206137114659	4000517830004	LIMESTONE BASIN PROP RANCH LLC	638	23S	35E	31	A-P

Table 3
Produced Water

wellname	api	section	township	range	unit	county	state	company	field	formation	samplesource	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	o2_mgl	CorrectFlag
RIO BLANCO 4 FEDERAL COM #003	3002536425	4	23S	34E	J	Lea	NM					9/3/2014 0:00	6.1	179000.8		53519.9	12080.6	38.7	1748.7	2.4	109000	122	0	200		FALSE
BELL LAKE UNIT #006	3002508483	6	23S	34E	O	LEA	NM		BELL LAKE NORTH	DEVONIAN	HEATER TREATER		7	71078							42200	500	1000			TRUE
BELL LAKE UNIT #002	3002508489	30	23S	34E	N	LEA	NM		SWD	DELAWARE	UNKNOWN			52115							32200	451	529			TRUE
RIO BLANCO 4 FEDERAL COM #003	3002536425	4	23S	34E	J	Lea	NM					10/15/2015 0:00	7	254017.1	0.025	62818	24835.8	47	4233.5	5.48	160463.8	244	425	1000		FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM					10/15/2015 0:00	6.07	185742	0.034	60151.2	9297	80.6	1501	1.68	113474.4	341.6	560	800		FALSE
CABALLO 9 STATE #001	3002534577	9	23S	34E	E	Lea	NM					9/10/2014 0:00	7.81	71862.4		24399.6	2685.9	462.1	367.8	2.86	42700	576	0	0		FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM					9/10/2014 0:00	6.9	71718.6		23830.8	2540	0	346.3	0	42400	610	170	100		FALSE
RIO BLANCA 4 FEDERAL COM #001	3002534515	4	23S	34E	F	Lea	NM					9/8/2004 0:00	6.1	43388.1		13982.1	1697	363	243		25721	207	574			FALSE
RIO BLANCA 4 FEDERAL COM #001	3002534515	4	23S	34E	F	Lea	NM					12/16/2004 0:00	6.1	70316.5		25492.9	1361	7	162		41669	228.1	1011	100		FALSE
RIO BLANCO 9 STATE #001	3002536302	9	23S	34E	B	Lea	NM					12/16/2004 0:00	5.6	65810.3		15070.8	6754	28	2137		41261	165.9	277			FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM					12/16/2004 0:00	6.2	71521.1		25245.7	1754	5	255		42308	207.4	1176	75		FALSE
RIO BLANCA 4 FEDERAL COM #001	3002534515	4	23S	34E	F	Lea	NM					4/26/2005 0:00	5.7	84267.8		28936.1	2670	64	383		50154	153.7	1230			FALSE
RIO BLANCO 9 STATE #001	3002536302	9	23S	34E	B	Lea	NM					4/26/2005 0:00	5.9	83217.6		28207.2	2817	1	493		49511	290.4	1188			FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM					4/26/2005 0:00	5.8	81393.3		27656.1	2657	9.5	497		48230	331.8	1340			FALSE
RIO BLANCA 4 FEDERAL COM #001	3002534515	4	23S	34E	F	Lea	NM					5/23/2005 0:00	5.9	76404.4		25237.5	2495	1087	329		45259	290.4	1093			FALSE
RIO BLANCO 9 STATE #001	3002536302	9	23S	34E	B	Lea	NM					5/23/2005 0:00	5.9	74771.3		25099.8	2724	5	454		44417	311.1	1123			FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM					5/23/2005 0:00	5.8	72187.8		24914.3	2151	7.5	345		42673	331.8	1198			FALSE
RIO BLANCA 4 FEDERAL COM #001	3002534515	4	23S	34E	F	Lea	NM					6/30/2005 0:00	6.1	74296		25272.2	2538	47	343		44022	456.3	1031	60		FALSE
RIO BLANCO 9 STATE #001	3002536302	9	23S	34E	B	Lea	NM					6/30/2005 0:00	6	74579		25426.9	2472	33	363		44159	414.8	1112	50		FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM					6/30/2005 0:00	6.1	73515.4		25199.7	2394	22	320		43444	456.3	1134	25		FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM					4/10/2007 0:00	6.6	73741.5		24583.3	2814	5	363	0.2	42853	732	1724			FALSE
ANTELOPE RIDGE UNIT #003	3002521082	34	23S	34E	K	LEA	NM		ANTELOPE RIDGE	DEVONIAN	UNKNOWN		6.9	80187							47900	476	900			TRUE
CABALLO 9 STATE #001	3002534577	9	23S	34E	E	Lea	NM					5/14/2014 0:00	6.9	70554		22500.6	2476.8	0	337.7	0	42521	732	1299	200		FALSE
RIO BLANCO 9 STATE #001	3002536302	9	23S	34E	B	Lea	NM					5/14/2014 0:00	6.2	192154		54068.3	13499.7	59.3	1983	2.7	119614	122	943	200		FALSE
BELL LAKE UNIT #009	3002520261	18	23S	34E	K	LEA	NM		BELL LAKE NORTH	BONE SPRING	UNKNOWN			204652							130000	512	260			TRUE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM					3/29/2010 0:00	7	77292.8		25964.7	2876	1	378	0.08	45890	244	1186	100		FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM					8/24/2010 0:00	8.4	69356		24262.3	1833	4.5	298	0.2	40711	366	1404	20		FALSE
CABALLO 9 STATE #001	3002534577	9	23S	34E	E	Lea	NM					10/14/2010 0:00	7	122402.2		38021	6823	11	1120	1	73600	622.2	1213	300		FALSE
RED BULL 31 STATE #002	3002537069	31	23S	35E	P	Lea	NM					10/15/2015 0:00	6.9	258268.6	0.025	73826.2	19030	31.6	4042	3.31	159864	73.2	490	300		FALSE
SWEETNESS 30 STATE FED COM #001H	3002541864	30	23S	35E	G	Lea	NM			DELAWARE-BRUSHY CANYON		10/15/2015 0:00	8.5	67516.1	0.095	23558.7	2923.2	0.1	401	0.03	39091.2	732	740	200		FALSE
NORTH CUSTER MOUNTAI #001	3002521601	28	23S	35E	C	LEA	NM				UNKNOWN			39074							23980	488	465			TRUE
SWEETNESS 30 STATE FED COM #001H	3002541864	30	23S	35E	G	Lea	NM			DELAWARE-BRUSHY CANYON		11/3/2014 0:00	5.5			57782	18114	29	2755	3.3	130601	122	920	300		FALSE
RED BULL 31 STATE #001	3002536798	31	23S	35E	N	Lea	NM					2/13/2006 0:00	5.69	280094		78620	21967	62	4035		173149	87	385			FALSE
RED BULL 31 STATE #002	3002537069	31	23S	35E	P	Lea	NM					6/12/2006 0:00	5.52	271366.2		85907.7	14750	39	2346	4	166106	24	778	280		FALSE
KELLER 4 STATE #001	3002536643	4	23S	35E	K	Lea	NM					8/27/2007 0:00	6.9	182379.5		68450.6	846	54	104	1	100659	292.8	10609			FALSE
SWEETNESS 30 STATE FED COM #001H	3002541864	30	23S	35E	G	Lea	NM			DELAWARE-BRUSHY CANYON		11/21/2014 0:00	5.5			53792	19065	78	2983	4.34	126850	122	690	220		FALSE
RED BULL 29 FEDERAL #001H	3002540628	29	23S	35E	D	Lea	NM			DELAWARE-BRUSHY CANYON			6.3			71207	35626	28	5417	6.2	190774	61	90	120		FALSE
SWEETNESS 30 STATE FED COM #001H	3002541864	30	23S	35E	G	Lea	NM			DELAWARE-BRUSHY CANYON		1/8/2015 0:00	6			75025	29081	22	4416	4.9	178278	37	380	520		FALSE
SWEETNESS 30 STATE FED COM #001H	3002541864	30	23S	35E	G	Lea	NM			DELAWARE-BRUSHY CANYON		5/13/2015 0:00	5.8			65779	26380	23	5455	5.6	164000	49	269	880		FALSE
ANTELOPE RIDGE UNIT #002	3002520444	4	24S	34E	B	LEA	NM		ANTELOPE RIDGE	ATOKA	HEATER TREATER		6.7	51475							31000	317	340			TRUE
FALCON FEDERAL #001	3002532190	1	24S	34E	I	LEA	NM	Yates Petroleum Corp.	Saunders		WELLHEAD	8/2/1983 0:00	7	60992		33879	2560		240		56000	392	1800		2	FALSE
CUSTER MOUNTAIN UNIT #001	3002520756	9	24S	35E	K	LEA	NM		CINTA ROJA	MORROW	DST			282741							176800	161	650			TRUE

Table 4 - Chemistry of Produced Water from Formations

wellname	api	section	township	range	unit	county	state	field	formation	depth	samplesource	sampledate	ph	specificgravity	specificgravity_temp_F	tds_mgL	resistivity_ohm_cm	resistivity_ohm_cm_temp_F	conductivity	conductivity_temp_F	sodium_mgL	calcium_mgL	magnesium_mgL	chloride_mgL	bicarbonate_mgL	sulfate_mgL
MCKITTRICK FED #1	3001500135	25	22S	25E	G	EDDY	NM		DEVONIAN		DST					16200							8762	290	1175	
MCKITTRICK FED #1	3001500135	25	22S	25E	G	EDDY	NM		DEVONIAN		DST					17510							9389	664	982	
CARNERO PEAK UT #001	3001510053	31	22S	25E	A	EDDY	NM		DEVONIAN		DST					14601							7236	515	1487	
CARNERO PEAK UT #001	3001510053	31	22S	25E	A	EDDY	NM		DEVONIAN		DST					15780							8126	336	1467	
CARNERO PEAK UT #001	3001510053	31	22S	25E	A	EDDY	NM		DEVONIAN		DST					15580							7853	487	1488	
BANDANA POINT UT #001	3001500044	13	23S	23E	O	EDDY	NM	BANDANA POINT	DEVONIAN		DST					15500							8020	500	1190	
TORTOISE ASB COM #001	3001510490	29	23S	24E	G	EDDY	NM		DEVONIAN		DST					17861							7760	490	3100	
TORTOISE ASB COM #001	3001510490	29	23S	24E	G	EDDY	NM		DEVONIAN		DST					15601							7780	476	1600	
REMUDA BASIN UNIT #001	3001503691	24	23S	29E	J	EDDY	NM	REMUDA	DEVONIAN		SWAB					64582							37500	610	1700	
REMUDA BASIN UNIT #001	3001503691	24	23S	29E	J	EDDY	NM	REMUDA	DEVONIAN		SWAB					56922							29000	1740	4980	
BELL LAKE UNIT #006	3002508483	6	23S	34E	O	LEA	NM	BELL LAKE NORTH	DEVONIAN		HEATER TREATER		7			71078							42200	500	1000	
ANTELOPE RIDGE UNIT #003	3002521082	34	23S	34E	K	LEA	NM	ANTELOPE RIDGE	DEVONIAN		UNKNOWN	14/11/1967 0:00	6,9			80187							47900	476	900	
ANTELOPE RIDGE UNIT #003	3002521082	34	23S	34E	K	LEA	NM	ANTELOPE RIDGE	DEVONIAN		UNKNOWN	14/11/1967 0:00	6,9			80187							47900	476	900	
CLINE FEDERAL #001	3002510717	14	23S	37E	K	LEA	NM	CLINE	DEVONIAN		PRODUCTION TEST					118979							71280	462	2593	
E C HILL B FEDERAL #001	3002510945	34	23S	37E	A	LEA	NM	TEAGUE	DEVONIAN		UNKNOWN					112959							67390	288	2765	
E C HILL D FEDERAL #001	3002510947	34	23S	37E	H	LEA	NM	TEAGUE	DEVONIAN		UNKNOWN					35639										
E C HILL D FEDERAL #004	3002510950	34	23S	37E	A	LEA	NM	TEAGUE	DEVONIAN		UNKNOWN					236252							147000	129	781	
HUAPACHE #003	3001500020	22	24S	22E	F	EDDY	NM		DEVONIAN		DST					3110							48	246	2020	
JURNEGAN POINT #001	3001510280	5	24S	25E	M	EDDY	NM	WILDCAT	DEVONIAN		DST	14/12/1964 0:00	7			229706							136964	198	2511	
JURNEGAN POINT #001	3001510280	5	24S	25E	M	EDDY	NM	WILDCAT	DEVONIAN		DST	14/12/1964 0:00	7			203100							121100	175	2220	
WHITE CITY PENN GAS COM UNIT 1 #001	3001500408	29	24S	26E	A	EDDY	NM		DEVONIAN		DST	01/03/1960 0:00	7	1,012	60		0,36	75	25596	64	6072	1002	132	10120	653	1336
STATE B COM #001	3002509716	36	24S	36E	C	LEA	NM	CUSTER	DEVONIAN		UNKNOWN					176234							107400	128	1004	
ELLIOTT H FEDERAL #001	3002512272	31	24S	38E	H	LEA	NM	DOLLARHIDE	DEVONIAN		WELLHEAD					58687										
ELLIOTT H FEDERAL #001	3002512272	31	24S	38E	H	LEA	NM	DOLLARHIDE	DEVONIAN		WELLHEAD					57018										
WEST DOLLARHIDE DEVONIAN UNIT #104	3002512297	32	24S	38E	I	LEA	NM	DOLLARHIDE	DEVONIAN		WELLHEAD					50858							30200	183	980	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST	17/06/1961 0:00	6			80880							46200	340	3050	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					84900							48600	840	2650	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					72200							41000	370	2960	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					80900							46200	340	3050	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					77600							44000	550	3240	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					135000							77000	650	5810	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					114000							65000	280	5110	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					135000							77000	500	5320	
WESTATES FEDERAL #008	3002511393	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		UNKNOWN					91058							51020	376	4783	
WESTATES FEDERAL #008	3002511393	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		UNKNOWN					86847							50450	363	2544	
STATE NJ A #001	3002511398	2	25S	37E	A	LEA	NM	JUSTIS NORTH	DEVONIAN		DST					105350							59300	660	4950	
NEW MEXICO BM STATE #002	3002511407	2	25S	37E	I	LEA	NM	JUSTIS NORTH	MONTOYA		UNKNOWN					77770							45500	1800	2400	
HALE STATE #003	3002512581	2	25S	37E	H	LEA	NM	JUSTIS NORTH	MONTOYA		WELLHEAD					64916							37000	813	2500	
SOUTH JUSTIS UNIT #016F	3002511556	13	25S	37E	F	LEA	NM	JUSTIS	FUSSELMAN		UNKNOWN					57675							34030	595	1211	
LEARCY MCBUFFINGTON #008	3002511569	13	25S	37E	N	LEA	NM	203MNTY, 259FSLM	FUSSELMAN	7052		02/01/1900 0:00	7,6	1,037	78	67909			81429	67		2603	684	38887	742	2489
LEARCY MCBUFFINGTON #008	3002511569	13	25S	37E	N	LEA	NM	JUSTIS	MONTOYA		UNKNOWN					67898							38880	742	2489	
A B COATES C FEDERAL #014	3002511736	24	25S	37E	G	LEA	NM	JUSTIS	MONTOYA		UNKNOWN					39261							22840	871	1030	
SOUTH JUSTIS UNIT #023C	3002511760	25	25S	37E	C	LEA	NM	JUSTIS	FUSSELMAN		SEPARATOR					63817							35870	360	3442	
CARLSON A #002	3002511764	25	25S	37E	I	LEA	NM	JUSTIS	FUSSELMAN		DST					208280							124000	510	3400	
STATE Y #009	3002511777	25	25S	37E	A	LEA	NM	JUSTIS	FUSSELMAN		DST	17/03/1961 0:00	7,3			219570							129000	960	4630	
STATE Y #009	3002511777	25	25S	37E	A	LEA	NM	JUSTIS	FUSSELMAN		DST	18/03/1961 0:00	6,8			163430							96000	290	3780	
CARLSON B 25 #004	3002511784	25	25S	37E	P	LEA	NM	JUSTIS	FUSSELMAN		SEPARATOR					184030							112900	68	1806	
COPPER #001	3002511818	28	25S	37E	J	LEA	NM	CROSBY	DEVONIAN		UNKNOWN					27506							15270	1089	1079	
ARNOTT RAMSAY NCT-B #003	3002511863	32	25S	37E	A	LEA	NM	CROSBY	DEVONIAN	8797		02/01/1900 0:00		1,142	70							17244	5345	100382	476	
ARNOTT RAMSAY NCT-B #003	3002511863	32	25S	37E	A	LEA	NM	CROSBY	DEVONIAN		UNKNOWN					158761										
WEST DOLLARHIDE DEVONIAN UNIT #110	3002512386	5	25S	38E	B	LEA	NM	DOLLARHIDE	DEVONIAN		UNKNOWN					56776										
FARNSWORTH FEDERAL #006	3002511950	4	26S	37E	A	LEA	NM	CROSBY	DEVONIAN		UNKNOWN					31931							20450	302	591	

OSE Well Logs – NO WATER SUPPLY WELLS

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996
Artesia ▲ Carlsbad ▲ Durango ▲ Midland

June 27, 2019

Hobbs News Sun
201 N. Thorp
P.O. Box 850
Hobbs, N.M. 88240

LEGAL NOTICE

AWR Disposal LLC, 3300 N. A Street, Ste. 220, Midland, TX 79705 is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Butkus SWD #1 will be located 434 feet from the South line and 207 feet from the East line, Section 25, Township 23 South, Range 34 East, Lea County, New Mexico. Produced water and recycled produced water from area production will be commercially disposed into the Silurian, Fusselman and Montoya Formations at a depth of 15,250 feet to 17,202 feet at a maximum surface pressure of 3,050 psi and an average injection rate of 30,000 barrels per day. The proposed SWD well is located approximately 30 miles southwest of Eunice, New Mexico.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, NM 87505 (505) 476-3460 within 15 days of the date of this notice.

Additional information can be obtained by contacting Mr. Randall Hicks, agent for Accelerated Water Resources, LP, at 505-238-9515.

Sincerely,
R.T. Hicks Consultants



Randall Hicks
Principal