



August 19, 2020

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

Subject: Probity SWD LLC – Tyson Lea 01D (pBL1934054649)
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Probity SWD, LLC (Probity), ALL Consulting, LLC (ALL) is submitting the attached documents to supplement the Application for Authorization to Inject for the Tyson Lea 01D, (pBL1934054649), a proposed salt water disposal well in Lea County, NM.

Should you have any questions regarding the enclosed materials, please contact Nate Alleman at (918) 382-7581 or nalleman@all-llc.com.

Sincerely,
ALL Consulting

A handwritten signature in black ink that reads "Nathan Alleman".

Nate Alleman
Sr. Regulatory Specialist

Application for Authorization to Inject

Well Name: Tyson Lea 01D

III – Well Data (*The Wellbore Diagram is included as Attachment 1*)

A.

(1) General Well Information:

Operator: Probitry SWD, LLC (OGRID No. 296278)
Lease Name & Well Number: Tyson Lea 01D
Location Footage Calls: 1,506' FNL & 2,457' FWL
Legal Location: Unit Letter F, S9 T22S R32E
Ground Elevation: 3,774'
Proposed Injection Interval: 15,900' – 17,250'
County: Lea

(2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	26"	20"	94.0 lb/ft	1,150'	1,700	Surface	Circulation
Intermediate 1	17-1/2"	13-3/8"	68.0 lb/ft	4,850'	1,550	Surface	Circulation
Intermediate 2	12-1/4"	9-7/8"	62.8 lb/ft	12,600'	2,300	Surface	Circulation
Liner	8-1/2"	7-5/8"	39.0 lb/ft	15,900'	450	11,700'	CBL

(The Wellbore Diagram is attached) Note: A DV Tool will be set in the second Intermediate Casing at 4,800 ft.

(3) Tubing Information:

5"x5.5" Internally plastic coated tubing with setting depth of 15,800'

(4) Packer Information: Baker Arrow-set retrievable packer set at 15,800'

B.

(1) Injection Formation Name: Devonian and Silurian formations

Pool Name: SWD; DEVONIAN - SILURIAN

Pool Code: 97869

(2) Injection Interval: Perforated injection between 15,900' – 17,250'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones:

- Delaware Lamar (4,848')
- Bone Springs (9,523')
- Wolfcamp (11,839')
- Atoka (13,637')
- Morrow (13,987')

(6) Underlying Oil and Gas Zones: No underlying oil and gas zones exist.

V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 1-mile Well Detail List
- Pending and Permitted SWD Map

VI – AOR Well List

There are no wells within the 1-mile AOR that penetrate the proposed injection zone.

A list of the wells within the 1-mile AOR is included in **Attachment 2**.

VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 40,000 bpd
Proposed Average Injection Rate: 20,000 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Surface Injection Pressure:** 3,180 psi (based on 0.2 psi per foot)
- (4) **Proposed Average Surface Injection Pressure:** approximately 1,500 – 2,000 psi
- (5) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Wolfcamp and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (6) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the Devonian and Silurian formation which is a non-productive zone known to be compatible with formation water from the Wolfcamp and Bone Springs formations. Water analyses from the Devonian and Silurian formation in the area are included in **Attachment 4**.

VIII – Geologic Description

The proposed injection interval includes the Devonian and Silurian formations from 15,900 – 17,250 feet. This formation consists of carbonate rocks which include light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thick sections of porous sandstone capable of taking water are present within the subject formation in the area.

The base of the deepest Underground Source of Drinking Water (USDW) is at a depth of approximately 1,077 feet. Surface casing will be set at a depth of 1,150 feet, which is 73 feet below the top of the Rustler formation, which isolates the USDW. Geophysical log assessment was conducted to accurately determine the top of the Rustler formation, and the top and the base of the Salado formation in this area. Water well depths in the area range from approximately 340 - 560 feet below ground surface.

IX – Proposed Stimulation Program

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

X – Logging and Test Data

Geophysical logs will be submitted to the Division upon completion of the well.

XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, there are three groundwater well located within 1-mile of the proposed SWD location. However, all of the groundwater wells within 1-mile of the proposed location are inactive; therefore, no groundwater samples were collected in association with this application.

A water well map of the area is included in **Attachment 5**.

XII – No Hydrologic Connection Statement

The original application included a Seismic Risk Assessment attachment prepared by Permits West Inc. which included a conclusion that "there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

ALL reviewed the casing and cementing program and confirmed that the proposed design will further ensure that there will be no hydrologic connection between the injection interval and overlying USDWs.

XIII – Proof of Notice

The original application documented that a Public Notice was filed with the Hobbs News - Sun Newspaper.

ALL reviewed the mineral owners, mineral leases, and oil and gas wells within the AOR and developed a revised list of Affected Parties. ALL then mailed full and complete copies of the application to all the identified Affected Parties. A list of the recipients, as well as mailing confirmations (green sheets), are included in **Attachment 6**.

Attachments

Attachment 1: Wellbore Diagram

Attachment 2: Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List
- 2-mile Lease Map
- 2-mile Pending and Permitted SWD Map

Attachment 3: Source Water Analyses

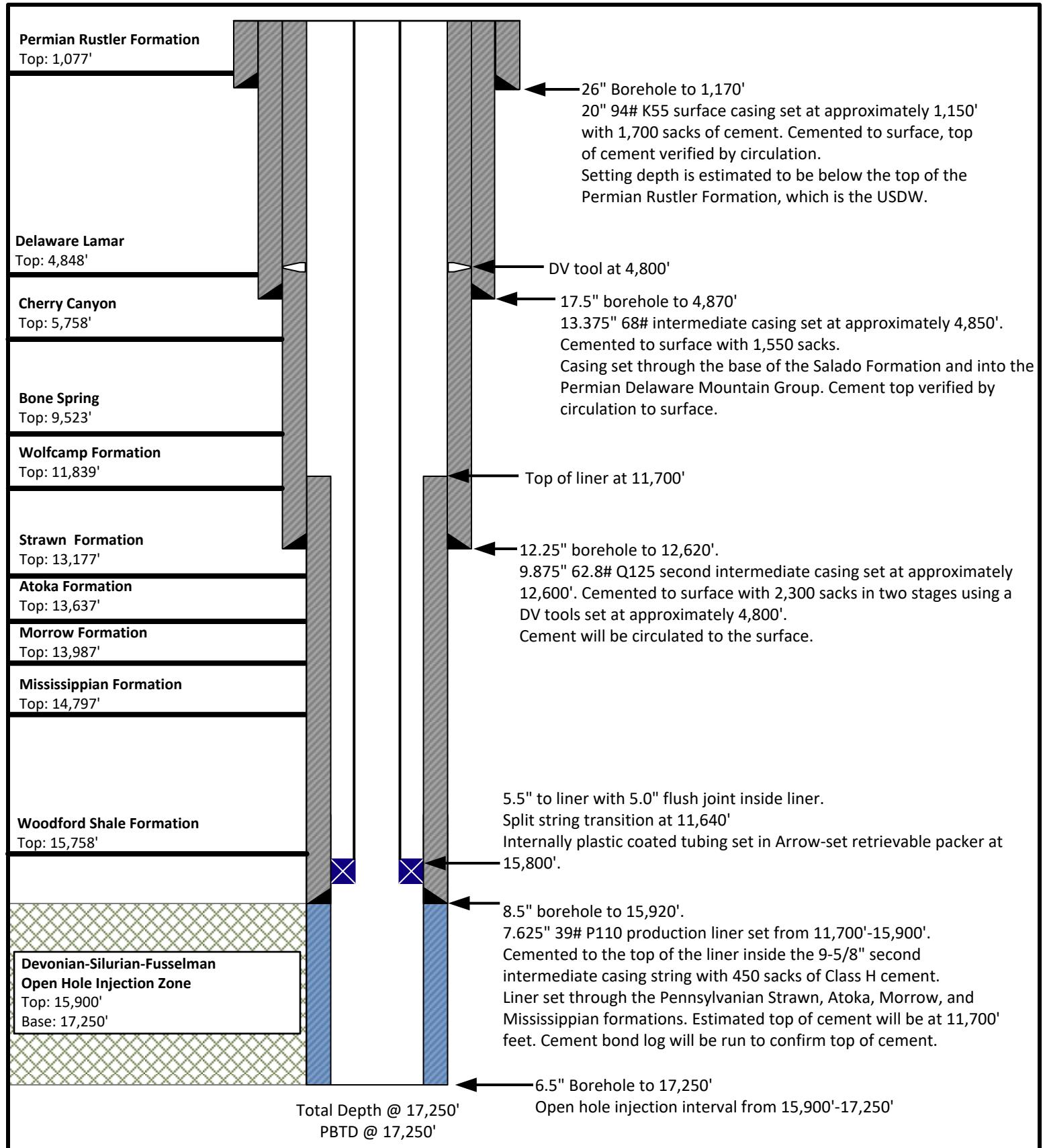
Attachment 4: Injection Formation Water Analyses

Attachment 5: Water Well Map and Well Data

Attachment 6: Notice of Application Confirmations

Attachment 1

- Wellbore Diagram



NOT TO SCALE

Prepared by:



Drawn by: Joshua Ticknor

Project Manager:
Dan Arthur

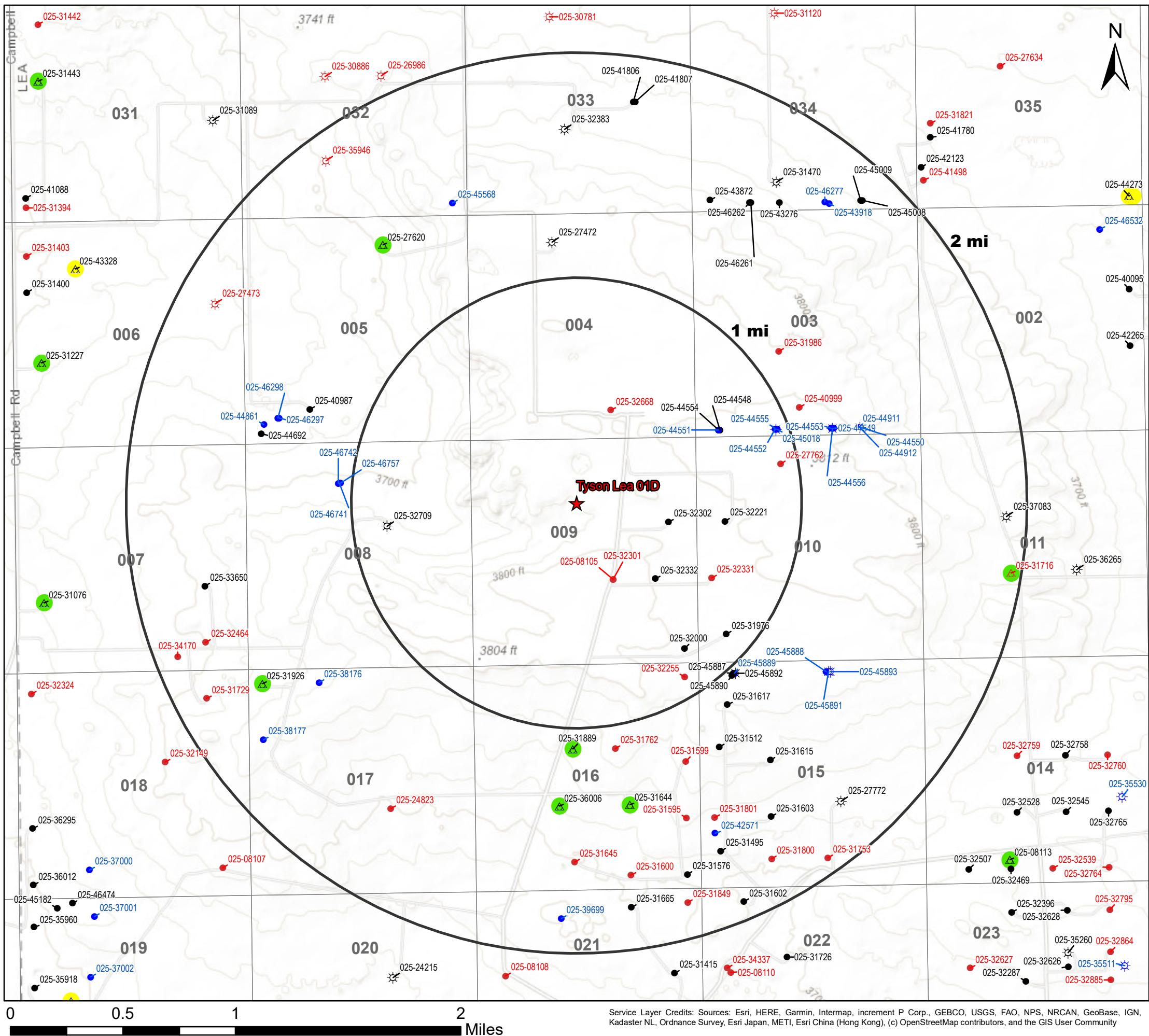
Date: 8/14/2020

Probity SWD, LLC.
Tyson Lea 01D
Unit Letter F, Section 9, Township 22S, Range 32E
1,506' FNL, 2,457 FWL
Lea County, NM

Attachment 2

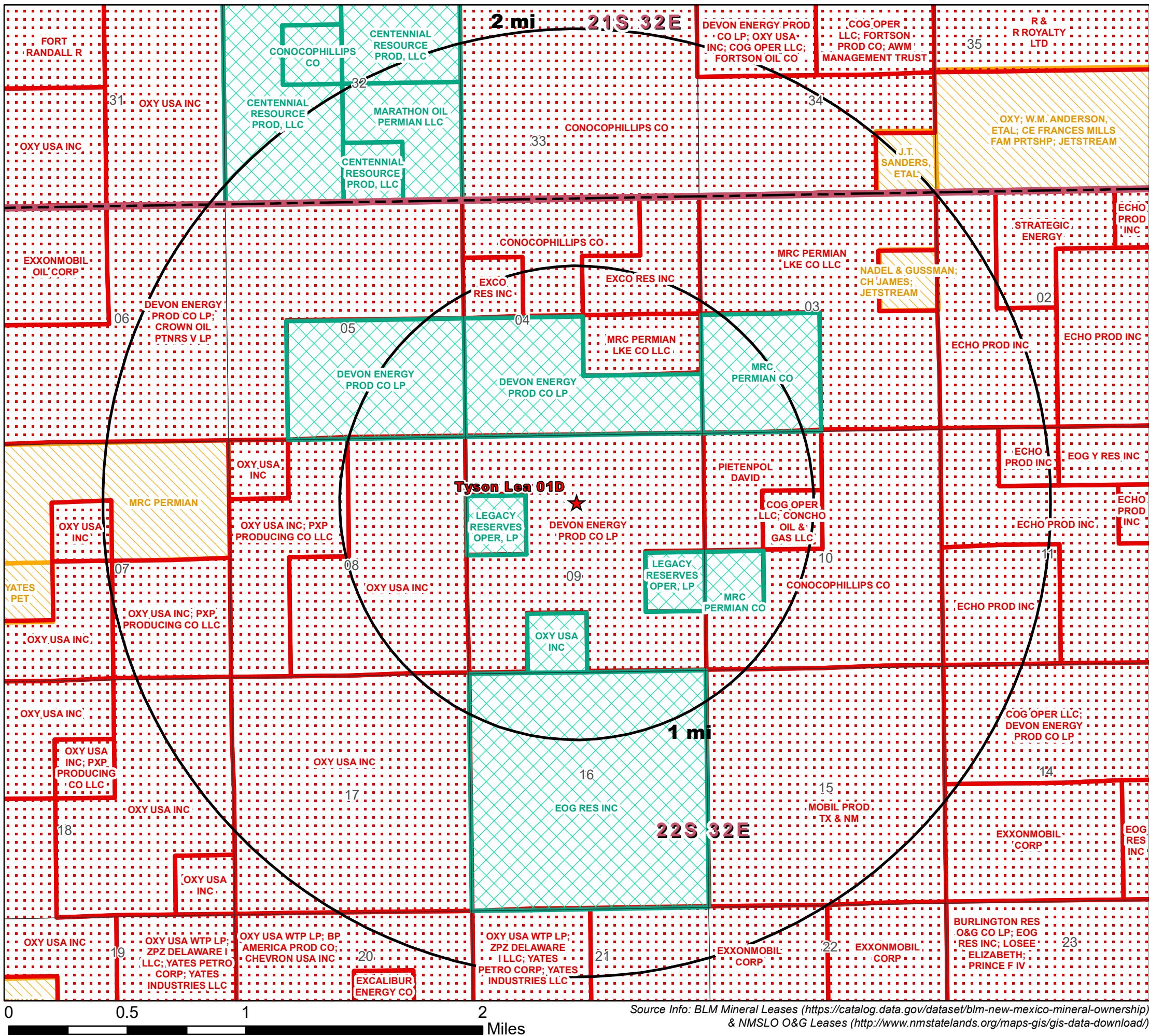
Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List
- 2-mile Lease Map
- 2-mile Pending and Permitted SWD Map



AOR Tabulation for Tyson Lea 01D (Top of Injection Interval: 15,900')							
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
WHITE SWAN 9 FEDERAL #003	30-025-32301	Plugged	DEVON ENERGY PRODUCTION COMPANY, LP	12/30/94	J-09-22S-32E	Plugged (7280)	No
EMERALD FEDERAL #001	30-025-31976	O	COG OPERATING LLC	05/24/93	M-10-22S-32E	8830	No
WHITE SWAN 9 FEDERAL #004	30-025-32302	O	DEVON ENERGY PRODUCTION COMPANY, LP	03/22/95	H-09-22S-32E	8920	No
TRUMPETER 4 STATE #001	30-025-32668	Plugged	DEVON ENERGY PRODUCTION COMPANY, LP	09/26/94	O-04-22S-32E	Plugged (8900)	No
WHITE SWAN 9 FEDERAL #001	30-025-32000	O	DEVON ENERGY PRODUCTION COMPANY, LP	06/09/93	P-09-22S-32E	8920	No
KIWI AKX STATE #009	30-025-32255	Plugged	EOG Y RESOURCES, INC.	10/11/93	A-16-22S-32E	Plugged (8915)	No
BARR NONE FEDERAL #001	30-025-32221	O	JUDAH OIL LLC	10/05/93	E-10-22S-32E	8910	No
WILD TURKEY 9 STATE #001	30-025-32332	O	LEGACY RESERVES OPERATING, LP	04/05/94	I-09-22S-32E	9000	No
WILD TURKEY 10 STATE #001	30-025-32331	Plugged	LEGACY RESERVES OPERATING, LP	04/19/95	L-10-22S-32E	Plugged (9000)	No
NINA CORTELL FEDERAL COM #201H	30-025-44554	O	MATADOR PRODUCTION COMPANY	09/05/18	M-03-22S-32E	12216	No
NINA CORTELL FEDERAL COM #131H	30-025-44551	O	MATADOR PRODUCTION COMPANY	Not Drilled	M-03-22S-32E	Proposed (10978)	No
NINA CORTELL FEDERAL COM #121H	30-025-44548	O	MATADOR PRODUCTION COMPANY	09/03/19	M-03-22S-32E	9978	No
NINA CORTELL FEDERAL COM #132H	30-025-44552	O	MATADOR PRODUCTION COMPANY	Not Drilled	N-03-22S-32E	Proposed (11927)	No
NINA CORTELL FEDERAL COM #202H	30-025-44555	G	MATADOR PRODUCTION COMPANY	Not Drilled	N-03-22S-32E	Proposed (12077)	No
NINA CORTELL FEDERAL COM #122H	30-025-45018	O	MATADOR PRODUCTION COMPANY	Not Drilled	N-03-22S-32E	Proposed (10976)	No
FEDERAL 8 COM #001	30-025-32709	G	OXY USA INC	04/05/95	G-08-22S-32E	15100	No
PRE-ONGARD WELL #001	30-025-08105	Plugged	PRE-ONGARD WELL OPERATOR (Culberson & Irwin, Inc.)	01/04/48	J-09-22S-32E	Plugged (5035)	No
BARR NONE FEDERAL #003	30-025-27762	Plugged	WTI 1993 LTD	09/28/93	C-10-22S-32E	Plugged (213)	No

Notes: No wells within the 1-mile AOR penetrate the injection interval.



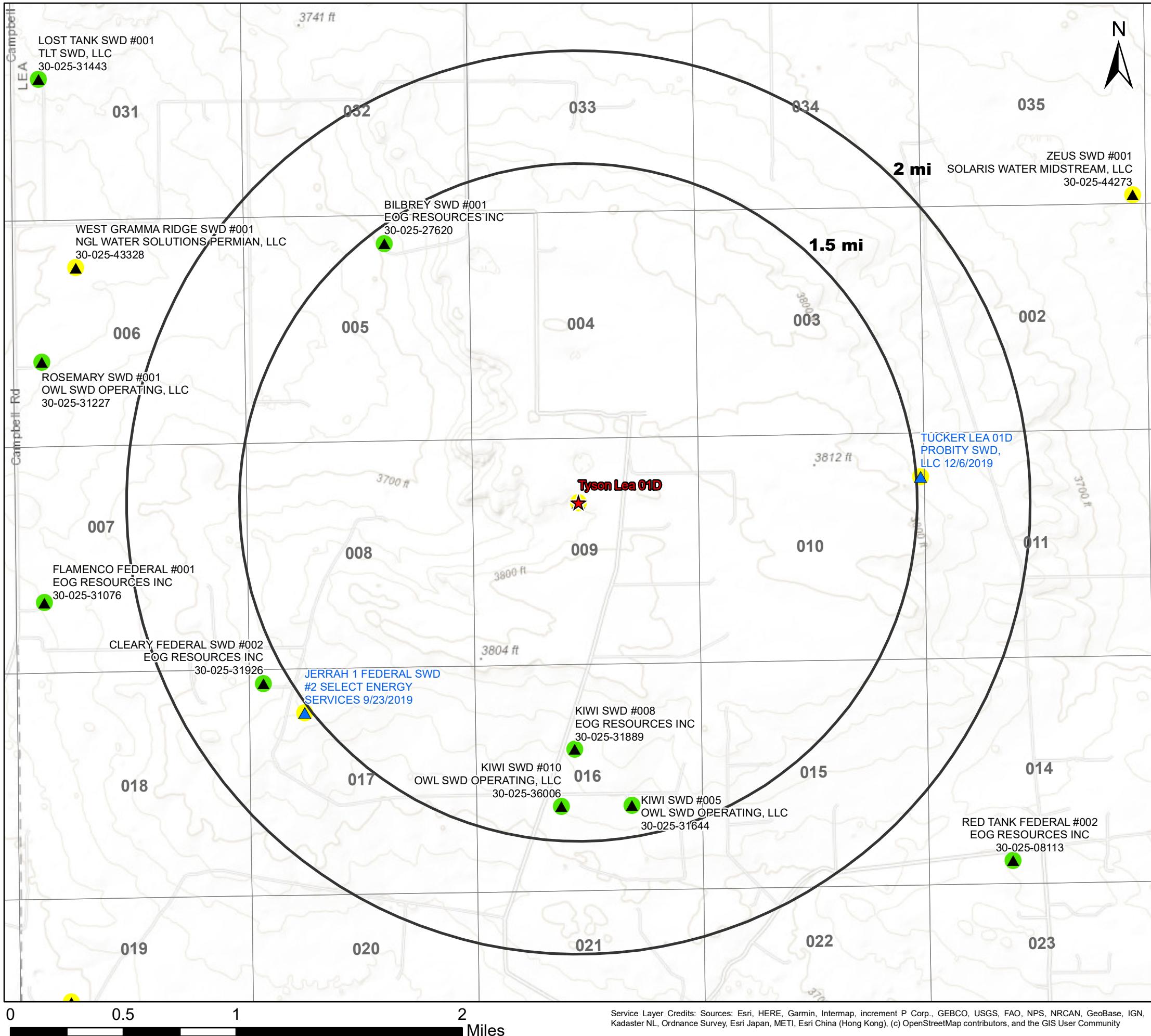
Legend

- ★ Proposed SWD
- 1.5-mile Buffer
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases
- Unleased Minerals - Private Owned

Mineral Lease Area of Review

Tyson Lea 01D Lea County, New Mexico

Proj Mgr: Dan Arthur	August 14, 2020	Mapped by: Ben Bockelmann
Prepared for: Probitry SWD,LLC.		Prepared by: ALL CONSULTING



Legend

- ★ Proposed SWD
 - ▲ Permitted SWDs (12)
 - ▲ Pending SWDs (3)

Proposed Injection Zone

- Deep
 - Shallow

Source Info: NMOCD O&G Wells updated 8/3/2020
(<http://www.emnrd.state.nm.us/OCD/ocdgis.html>)

Pending & Permitted SWDs

Tyson Lea 01D

Lea County, New Mexico

Proj Mgr: August 19, 2020 Mapped by:
Dan Arthur Ben Bockelmann

Prepared for:
Probity
SWD, LLC.

Prepared by:

Attachment 3

Source Water Analyses

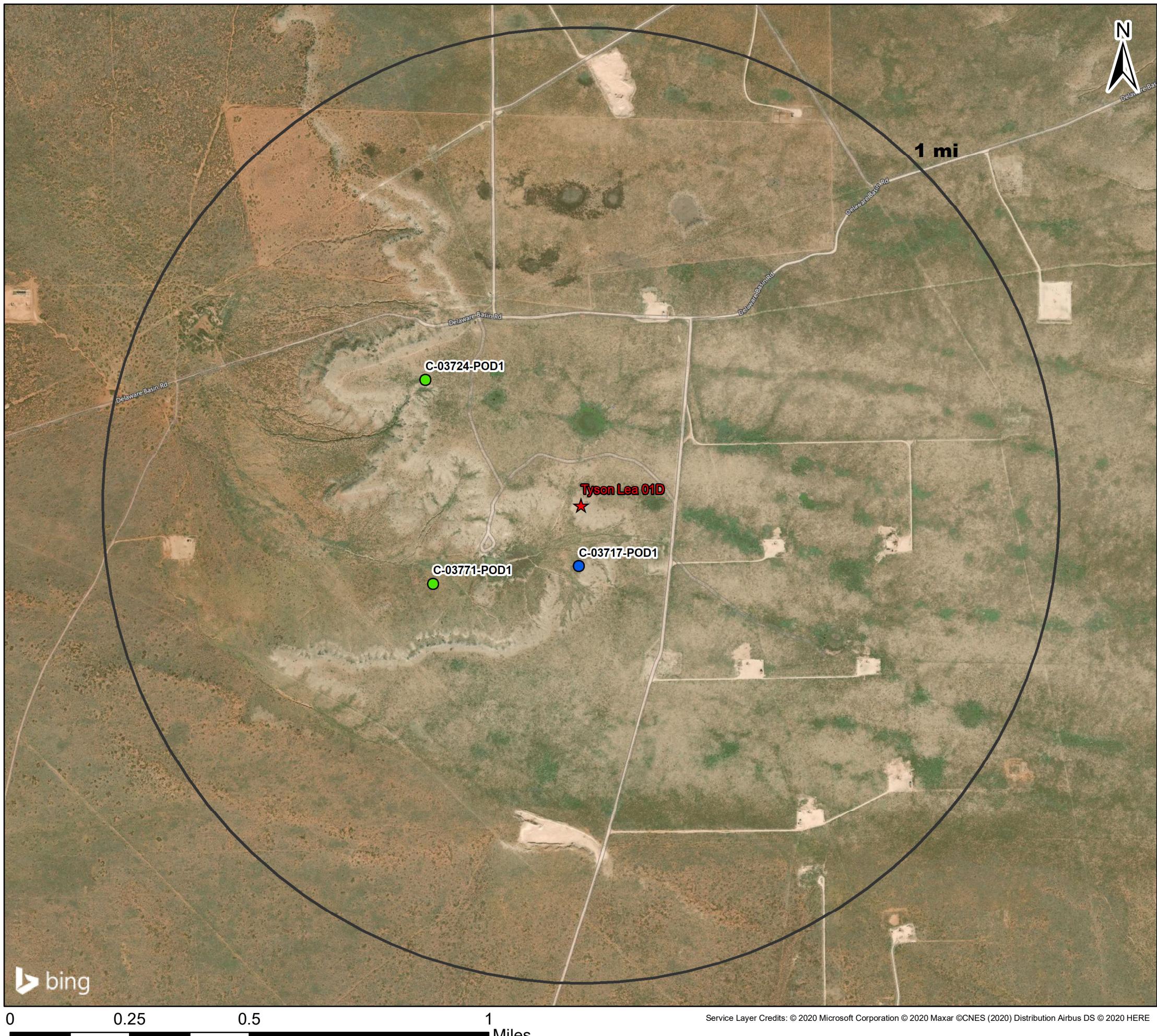
Source Water Analysis																	
Probity SWD, LLC - Bone Springs, Morrow, Delaware, Wolfcamp																	
WellName	API	Latitude	Longitude	Section	Township	Range	Unit	FtgnS	Ftgew	County	State	Field	Formation	TDS (Mg/L)	Chloride (Mg/L)	Bircarbonate (Mg/L)	Sulfate (Mg/L)
BILBREY BASIN 5 STATE COM #001H	3002540987	32.4155464	-103.70047	5	22S	32E	N	790S	1520W	Lea	NM		BONE SPRING 2ND SAND	109780.5	67200	97	7.5
BILBREY BASIN 5 STATE COM #001H	3002540987	32.4155464	-103.70047	5	22S	32E	N	790S	1520W	Lea	NM		BONE SPRING 2ND SAND		93000	342	658
BILBREY BASIN 5 STATE COM #001H	3002540987	32.4155464	-103.70047	5	22S	32E	N	790S	1520W	Lea	NM		BONE SPRING 2ND SAND		124390	159	650
BILBREY 33 FEDERAL COM #003H	3002541806	32.4351044	-103.6756058	33	21S	32E	J	2600S	1350E	Lea	NM		BONE SPRING 2ND SAND	119028.4	72082.6	323.7	51
BILBREY 33 FEDERAL COM #004H	3002541807	32.4351044	-103.6754456	33	21S	32E	I	2600S	1300E	Lea	NM		BONE SPRING 2ND SAND	120177.2	74017.1	253.7	34
BILBREY 33 FEDERAL COM #003H	3002541806	32.4351044	-103.6756058	33	21S	32E	J	2600S	1350E	Lea	NM		BONE SPRING 2ND SAND		86000	195	597
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109808.2	66984.9	280.6	1030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139904.6	85080.8	292.8	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184420.1	115274	268.4	765
GAUCHO UNIT #007H	3002534440	32.3889961	-103.4941711	17	22S	34E	K	1650S	1980W	Lea	NM		BONE SPRING 2ND SAND	151777.7	91600	244	0
GAUCHO UNIT #007H	3002534440	32.3889961	-103.4941711	17	22S	34E	K	1650S	1980W	Lea	NM		BONE SPRING 2ND SAND	166697.6	101677.1	61	675
TOMB RAIDER 1 FEDERAL #001H	3001542655	32.3400421	-103.7294922	1	23S	31E	B	200N	2005E	EDDY	NM		BONE SPRING 2ND SAND	146749.4	87902.2		952.5
GAUCHO UNIT #011H	3002541184	32.385006	-103.4891129	17	22S	34E	O	200S	1730E	Lea	NM		BONE SPRING 3RD SAND	156141.2	97977.9	305	1005
ALDABRA 25 FEDERAL COM #001H	3001538612	32.2686806	-103.7379837	25	23S	31E	M	200S	635W	EDDY	NM		BONE SPRING 3RD SAND	109640.8	66018.5		648.6
ALDABRA 26 FEDERAL #008H	3001538624	32.2690926	-103.7414856	26	23S	31E	P	350S	445E	EDDY	NM		BONE SPRING 3RD SAND	113709.7	72869	122	0
ALDABRA 25 FEDERAL #003H	3001538614	32.2686806	-103.7327271	25	23S	31E	N	200S	2260W	EDDY	NM		BONE SPRING 3RD SAND	117104.1	73200	244	0
ALDABRA 26 FEDERAL #008H	3001538624	32.2690926	-103.7414856	26	23S	31E	P	350S	445E	EDDY	NM		BONE SPRING 3RD SAND	116691.1	71000	134	3.4
ALDABRA 27 FEDERAL #001H	3001538625	32.2686996	-103.7733154	27	23S	31E	M	200S	275W	EDDY	NM		BONE SPRING 3RD SAND	124604	71737	109	3.4
ALDABRA 27 FEDERAL #001H	3001538625	32.2686996	-103.7733154	27	23S	31E	M	200S	275W	EDDY	NM		BONE SPRING 3RD SAND	125038	71737	109	627
MEDANO VA STATE #003	3001526591	32.305336	-103.7860031	16	23S	31E	F	2310N	1650W	EDDY	NM	LOS MEDANOS	DELAWARE		109108	537	125
GARDNER TL #001	3001505847	32.2599945	-103.7667236	34	23S	31E	K	2310S	2310W	EDDY	NM		DELAWARE	383600			
THISTLE UNIT #018H	3002540010	32.2825584	-103.5810394	28	23S	33E	C	150N	1470W	Lea	NM		DELAWARE-BRUSHY CANYO	254702.7	157600	122	
THISTLE UNIT #032H	3002540016	32.2543526	-103.5691833	33	23S	33E	P	150S	150E	Lea	NM		DELAWARE-BRUSHY CANYO	256044.9	160600	122	
THISTLE UNIT #017H	3002539893	32.2543602	-103.5734558	33	23S	33E	O	150S	1470E	Lea	NM		DELAWARE-BRUSHY CANYO	283085.1	179335	427	
THISTLE UNIT #018H	3002540010	32.2825584	-103.5810394	28	23S	33E	C	150N	1470W	Lea	NM		DELAWARE-BRUSHY CANYO	182009	111474.9	61	600
THISTLE UNIT #020H	3002540015	32.2825584	-103.5682526	27	23S	33E	D	150N	150W	Lea	NM		DELAWARE-BRUSHY CANYO	167967.8	102676.8	73.2	425
THISTLE UNIT #026H	3002542431	32.2965799	-103.5666151	22	23S	33E	M	100S	802W	Lea	NM		DELAWARE-BRUSHY CANYO	133984.6	80481.9	972.2	880
THISTLE UNIT #017H	3002539893	32.2543602	-103.5734558	33	23S	33E	O	150S	1470E	Lea	NM		DELAWARE-BRUSHY CANYO	249357.8	153350	61	1010
THISTLE UNIT #020H	3002540015	32.2825584	-103.5682526	27	23S	33E	D	150N	150W	Lea	NM		DELAWARE-BRUSHY CANYO	245475	151089	61	990
HAT MESA #001	3002524403	32.4806824	-103.6390762	14	21S	32E	H	1980N	660E	LEA	NM	HAT MESA	MORROW	271555	199015	288.896	529.248
BELLOQ 2 STATE #002H	3001542895	32.3400704	-103.7515914	2	23S	31E	C	200N	1720W	EDDY	NM		WOLFCAMP	119471.8	73172.5		1035.5

Attachment 4
Injection Formation Water Analyses

Injection Formation Water Analysis																	
Probity SWD, LLC - Devonian																	
WellName	API	Latitude	Longitude	Section	Township	Range	Unit	FtgnS	Ftgew	County	State	Field	Formation	TDS (Mg/L)	Chloride (Mg/L)	Bircarbonate (Mg/L)	Sulfate (Mg/L)
ANTELOPE RIDGE UNIT #003	3002521082	32.2593155	-103.4610748	34	23S	34E	K	1980S	1650W	LEA	NM	ANTELOPE RIDGE	DEVONIAN	80187			
APPLESEED FEDERAL COM #001	3002520377	32.5750008	-103.4730377	17	20S	35E	H	1980N	660E	LEA	NM	LYNCH	DEVONIAN	44825			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	DEVONIAN	33414	18570	227	1961
LEA UNIT #009	3002502432	32.578598	-103.5121155	13	20S	34E	B	660N	2130E	LEA	NM	LEA	DEVONIAN	45778	26440	1145	729
BIG EDDY UT #001	3001505819	32.5970078	-103.8506088	3	20S	31E	P	660S	660E	EDDY	NM		DEVONIAN	24313	13960	469	730

Attachment 5

Water Well Map and Well Data



Water Well Sampling Rationale						
Probability SWD, LLC- Tyson Lea 01D						
Water Wells	Owner	Available Contact Information	Use	Coordinates	Sampling Required	Notes
C-03717 Pod 1	Slash 46 Ranch	Stacey Mills (PO BOX 1358 Loving, NM 88220) 575-390-2779	Livestock Watering	32.407450, -103.6804	No	Permit Status of Permit
C-03724 Pod 1	Bureau of Land Management Slash 46 Ranch	Stacey Mills (PO BOX 1358 Loving, NM 88220) 575-390-2780	Livestock Watering	32.413160, -103.6858	No	Permit Status of Expired
C-03771 Pod 1	Slash 46 Ranch	Stacey Mills (PO BOX 1358 Loving, NM 88220) 575-390-2781	Livestock Watering	32.40697032, -103.685620	No	Permit Status of Expired

Notes:

Attachment 6

Notice of Application Confirmations

Tyson Lea 01D - Notice of Application Recipients				
Entity	Address	City	State	Zip Code
Landowner				
F.J. Mills	1602 Avenue J.	Abernathy	TX	79311
OCD District				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
Mineral Owner				
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
Leasehold Operators				
Conoco Phillips Company (CONOCOPHILLIPS CO)	P.O. Box 7500	Bartlesville	OK	74005
Cocho Oil & Gas, LLC (CONCHO OIL & GAS LLC)	600 W. Illinois Ave.	Midland	TX	79701
COG Operating, LLC (COG OPERATING LLC)	600 W. Illinois Ave.	Midland	TX	79701
Commision of Public Lands - State Land Office	310 Old Santa Fe Trail	Santa Fe	NM	87501
Crown Oil Partners V, LP.(CROWN OIL PTNRS V LP)	P.O. Box 50820	Midland	TX	79710
David J. Pientenpol (PIETENPOL DAVID)	4714 Valley Ridge Ct.	Fort Collins	CO	80526
Devon Energy Production Company, LP. (DEVON ENERGY PROD CO LP)	333 W. Sheridan Ave.	Oklahoma City	OK	73102
EOG Resources, Inc. (EOG RES INC)	5509 Champions Drive	Midland	TX	79706
Exco Resources, Inc. (EXCO RES INC)	12377 Merit Drive, Suite 1700	Dallas	TX	75251
Judah Oil LLC (JUDAH OIL LLC)	P.O. Box 568	Artesia	NM	88211
Legacy Reserves Operating, LP (LEGACY RESERVES OPER, LP)	303 W. Wall St., Suite 1800	Midland	TX	79701
Matador Production Company	5400 LBJ Freeway, Suite 1500	Dallas	TX	75240
Mobil Production Texas & New Mexico (MOBIL PROD TX & NM)	9 Greenway Plaza 2700	Houston	TX	77046
MRC Permian Company (MRC PERMIAN CO) (MRC PERMIAN LKE CO LLC)	5400 LBL Freeway, Suite 1500	Dallas	TX	75240
OXY USA Inc. (OXY USA INC)	5 Greenway Plaza, Suite 110	Houston	TX	77046-0521
PXP Producing Company, LLC.(PXP PRODUCING CO LLC)	P.O. Box 2504	Houston	TX	77252

Notes: The table above shows the Entities who were identified as parties of interest requiring notification on either the 1-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 1-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).

Certified Mail® Labels

ALL Consulting, LLC
1718 S Cheyenne Ave
Tulsa OK 74119

Place label at top of the center of the envelope and fold at dotted line.



Top of the page

Print postage using Stamps.com Template SDC-3610

ALL Consulting, LLC
1718 S Cheyenne Ave
Tulsa OK 74119

Place label at top of the center of the envelope and fold at dotted line.



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NMOCD District 2
811 South 1st Street
Artesia NM 88210-2834

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1718 S Cheyenne Ave
Tulsa OK 74119

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MRC Permian Company
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