ALL CONSULTING
GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY
ENGINEERING · ENVIRONMENTAL

December 2, 2021

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

Subject: Blackbuck New Mexico LLC – Patriot State SWD #1
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Blackbuck New Mexico LLC (Blackbuck), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Patriot State SWD #1, a proposed salt water disposal well, in Eddy County, NM.

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

Sincerely,
ALL Consulting

Nathan Alleman

Nate Alleman
Sr. Regulatory Specialist

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.

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.

Nate Alleman	Nathan Alleman	Regulatory Specialist - ALL Consulting	11/30/2021
Print or Type Name	Signature	Title	Date

nalleman@all-llc.com
Date e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance ___X___Disposal _____Storage
Application qualifies for administrative approval? __X_____Yes _____No

II. OPERATOR: Blackbuck New Mexico LLC

ADDRESS: 3200 Southwest Freeway, Houston TX 77027

CONTACT PARTY: Barry Riley PHONE: 713-804-9460

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).

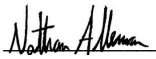
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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: Nate Alleman TITLE: Sr. Regulatory Specialist

SIGNATURE:  DATE: 12/02/2021

E-MAIL ADDRESS: Nalleman@all-llc.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

Side 2

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.

Application for Authorization to Inject
Well Name: Patriot State SWD #1

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

A.

(1) General Well Information:

Operator: Blackbuck New Mexico LLC (OGRID No. 373619)
Lease Name & Well Number: Patriot State SWD #1
Location Footage Calls: Unit Letter M, 671' FSL & 114' FWL
Legal Location: S9 T25S R27E
Ground Elevation: 3,238'
Proposed Injection Interval: 13,500' – 14,378'
County: Eddy

(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	475'	600	Surface	Circulation
Intermediate	17-1/2"	13-3/8"	61.0 lb/ft	2,240'	1,250	Surface	Circulation
Production	12-1/4"	9-5/8"	53.5 lb/ft	10,384'	2,600	Surface	Circulation
Liner	8-3/4"	7-5/8"	29.7-lb/ft	9,380' – 13,500'	300	9,380'	CBL

DV Tools set at: 1,990' & 5,775'

(3) Tubing Information:

7" (29 lb/ft) FJ fiberglass lined tubing with a setting depth of approximately 9,300', and 5.5" (15.5 lb/ft) FJ fiber glasses lined tubing from 9,300' – 13,450'.

(4) Packer Information: Baker Hughes SC-2 or equivalent packer set at 13,450'

B.

(1) Injection Formation Name: Devonian and Silurian formations
Pool Name: SWD; Devonian - Silurian
Pool Code: 97869
(2) Injection Interval: Open-hole injection between 13,500' – 14,378'
(3) Drilling Purpose: New Drill for Salt Water Disposal
(4) Other Perforated Intervals: No other perforated intervals exist.
(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Bone Springs (5,705')
- Morrow (11,952')

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
- 1-mile Well Detail List
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- 1.5-mile Deep SWD Map (Devonian/Silurian SWDs)
- Potash Lease Map

VI – AOR Well List

No wells within the 1-mile AOR 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: 25,000 bpd

(2) A **closed system** will be used.

(3) Proposed Maximum Injection Pressure: 2,547 psi (surface)
Proposed Average Injection Pressure: approximately 1,500 – 2,000 psi (surface)

(4) 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***.

(5) Injection Formation Water Analysis: The proposed SWD will be injecting water into the Devonian and Silurian formations which are non-productive zones known to be compatible with formation water from the Wolfcamp and Bone Springs formations. Water analyses from Silurian could not be located; however, water analyses from the Devonian formation in the area are included in ***Attachment 4*.**

VIII – Geologic Description

The proposed injection interval includes the Devonian and Silurian formations from 13,500 – 14,378 feet. These formations consist of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thick sections of porous dolomite capable of taking water are present within the subject formations in the area.

The base of the deepest Underground Source of Drinking Water (USDW) is at a depth of approximately 450 feet. Surface casing will be set at a depth of 475 feet, which is 25 feet below the top of the Castille formation, which isolates the USDW. Geophysical log assessment was conducted to accurately determine the top of the Castille formation, and the top and the base of the Salado formation in this area. Water well depths in the area range from approximately 21 - 351 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

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 no groundwater wells located within 1-mile of the proposed SWD location; therefore, no groundwater samples were collected in association with this application.

A water well map and details of water wells within 1-mile are included in ***Attachment 5***.

XII – No Hydrologic Connection Statement

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs. A letter from a knowledgeable and qualified expert stating that there is a low risk of seismic activity from the proposed injection activities is included in ***Attachment 6.***

XIII – Proof of Notice

A Public Notice was filed with the Carlsbad Current-Argus newspaper and an affidavit is included in ***Attachment 7***.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in ***Attachment 7***.

Attachments

Attachment 1:

- C-102
- Wellbore Diagram

Attachment 2: Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1-mile Well Detail List
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- 1.5-mile Deep SWD Map (Devonian/Silurian SWDs)
- Potash Lease Map

Attachment 3: Source Water Analyses

Attachment 4: Injection Formation Water Analyses

Attachment 5: Water Well Map and Well Data

Attachment 6: Induced Seismicity Assessment Letter

Attachment 7: Public Notice Affidavit and Notice of Application Confirmations

Attachment 1

- C-102
- Wellbore Diagram

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
	97869	SWD; Devonian - Silurian

[4] Property Code	[5] Property Name	[6] Well Number
	PATRIOT STATE SWD	#1

[7] OGRID No.	[8] Operator Name	[9] Elevation
	BLACKBUCK NEW MEXICO LLC	3238.0'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	9	25S	27E		671	SOUTH	142	WEST	EDDY

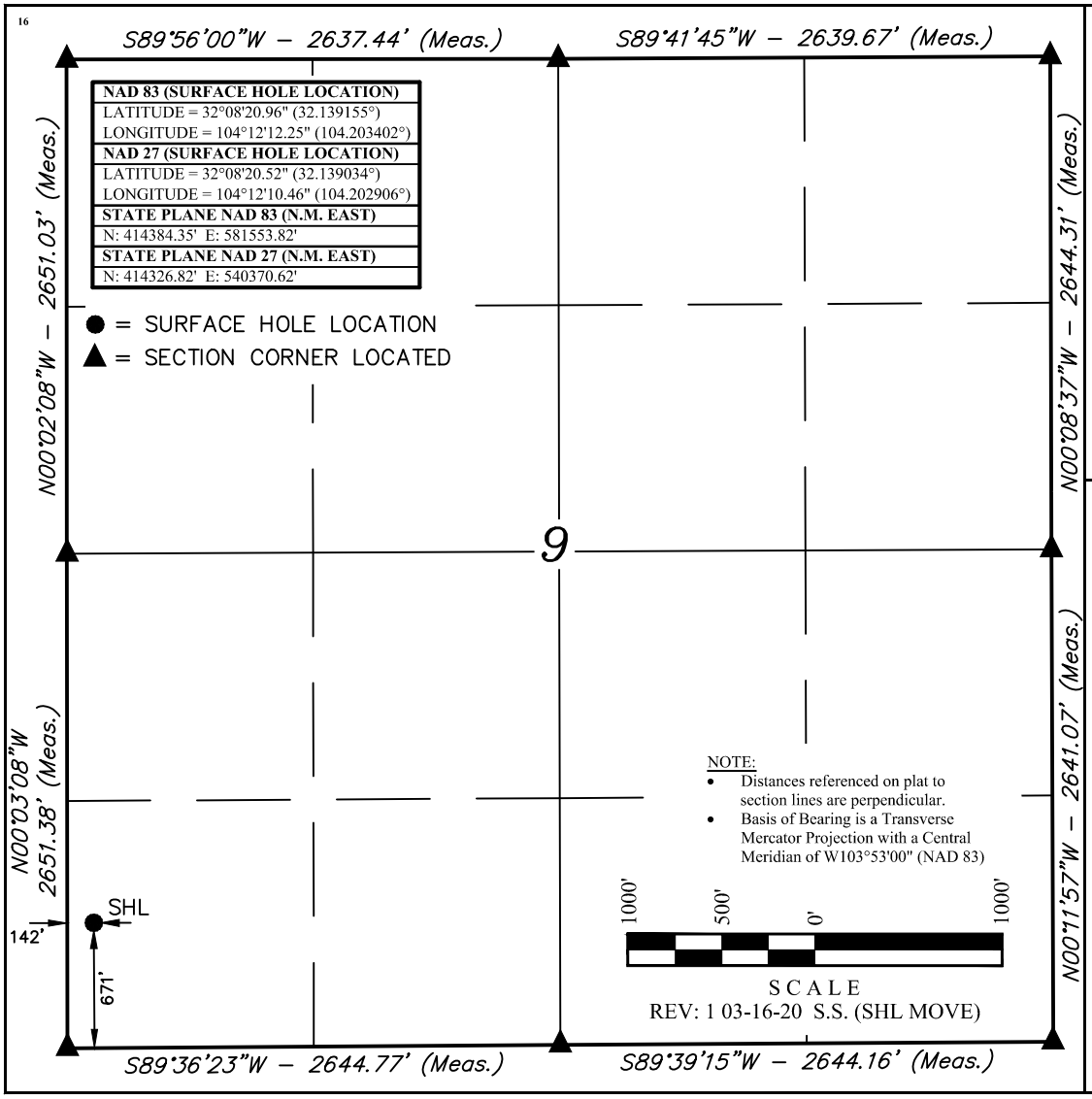
[11] Bottom Hole Location If Different From Surface

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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

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

[16]



[17] OPERATOR CERTIFICATION

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

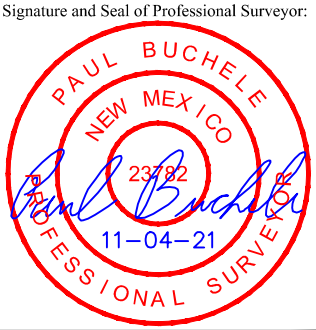
[18] SURVEYOR CERTIFICATION

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 and correct to the best of my belief.

October 07, 2019

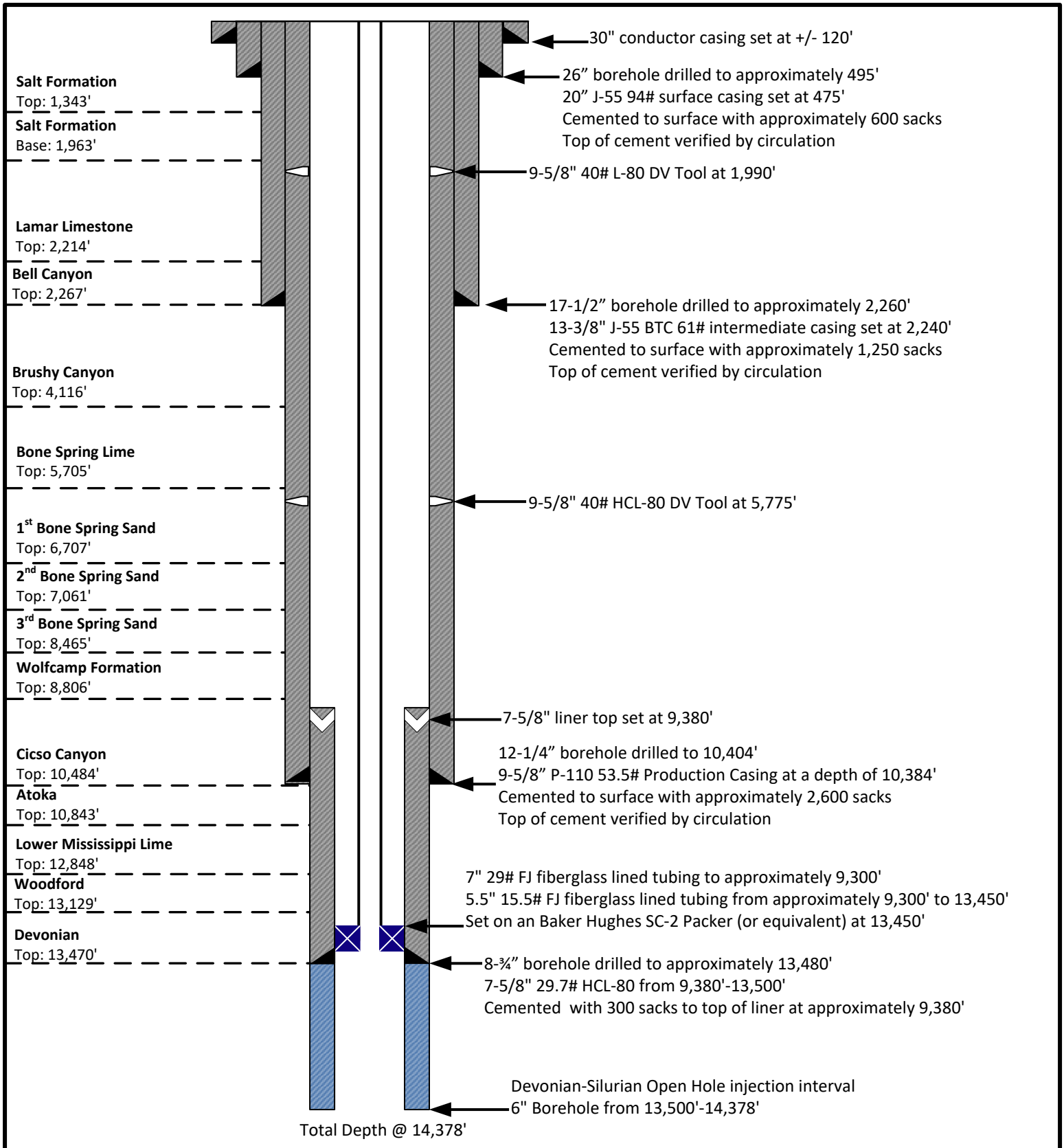
Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number:

REV: 1 11-04-21 L.K.
(UPDATE COMPANY NAME)



Note: Listed depths and cement volumes are approximates based on available information. All cement calculations use yield of 1.18 cubic foot per sack and include 25% excess.

NOT TO SCALE

ALL CONSULTING

BLACKBUCK RESOURCES

Drawn by: Joshua Ticknor

Project Manager: Nathan Alleman

Date: 11/29/2021

Blackbuck New Mexico LLC
Patriot State SWD #1
671' FSL & 142' FWL, UL M, Sec. 9, T25S, R27E
Eddy County, NM

SC-2 Retrievable Packer

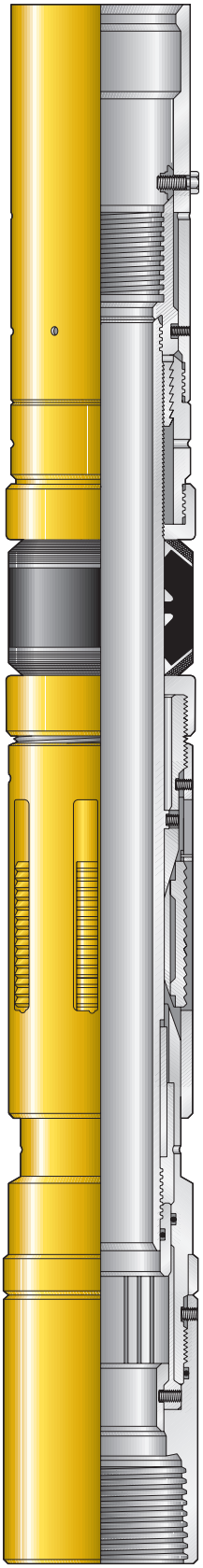
Product Family No. H48807

APPLICATION

The Baker Hughes SC-2™ retrievable packer is a high-performance, retrievable, sealbore packer. It can be run and set on electric wireline, slick line/tubing with the same setting tools used for the D packer.

Advantages

- Can be set with wireline or hydraulic setting tools
- Can be equipped with a variety of bottom guides (must be ordered separately)
- Packer easily accommodates tubing expansion or contraction
- Tubing and seals can be removed without accidentally unsetting packer
- Easy retrieval due to caged slips and releasing mechanism located in protected area below packing element
- Packer's releasing mechanism is not affected by differential pressure or tailpipe weight
- Case-hardened slips suitable for all grades of casing including V-150
- Compatible with standard Baker Hughes' seal accessories, tubing-conveyed perforating and gravel-packing systems



SC-2 Retrievable Packer
Product Family No. H48807

SPECIFICATION GUIDE

SC-2™ Retrievable Packer, Product Family No. H48807

Casing			Packer ✷					
OD		T & C Weight ▼	Size ●		Max Gage Ring OD		Max Packing Element	
in.	*mm*	lb/ft			in.	*mm*	in.	*mm*
5-1/2	*139.7*	20–23	55A2–26		4.485	*113.9*	4.406	*111.9*
		17–20	55A4–26		4.593	*116.6*	4.500	*114.3*
		13–15.5	55B–26		4.765	*121.0*	4.687	*119.0*
7	*177.8*	35–38	70A2–32		5.735	*145.6*	5.687	*144.4*
		29–32	70A4–32		5.820	*147.8*	5.750	*146.0*
		23–29	70B–32		6.000	*152.4*	5.937	*150.8*
		17–20	70C–32		6.250	*158.7*	6.187	*157.1*
7-5/8	*193.6*	33.7–39	76A2–32 ◆	76A2–40 ◆	6.440	*163.6*	6.375	*161.9*
		29.7–33.7	76A4–32 ◆	76A4–40 ◆	6.580	*167.1*	6.500	*165.1*
		24–29.7	76B2–32 ◆	76B2–40 ◆	6.690	*169.9*	6.625	*168.2*
		20–24	76B4–32 ◆	76B4–40 ◆	6.784	*172.3*	6.718	*170.6*
9-5/8	*244.4*	53.5–58.4	96A–47		8.191	*208.0*	8.125	*206.3*
		47–53.5	96A2–47		8.319	*211.3*	8.250	*209.5*
		40–47	96A4–47		8.465	*215.0*	8.375	*212.7*
		36–40	96B–47		8.619	*218.9*	8.500	*215.9*

Size	Sealbore Dia for Seal Nipples ■		Seal Accessory Size ▲	Min Bore Thru Seal Nipples	
	in.	*mm*		in.	*mm*
55A2–26	2.688	*68.2*	40–26	1.968	*50.0*
55A4–26					
55B–26					
70A2–32	3.250	*82.5*	80–32 or 81–32	2.406 or 1.995	*61.1 or 50.6*
70A4–32					
70B–32					
70C–32					
76A2–32					
76A2–40	4.000	*101.6*	80–40	3.000	*72.6*
76A4–32	3.250	*82.5*	80–32 or 81–32	2.406 or 1.995	*61.1 or 50.6*
76A4–40	4.000	*101.6*	80–40	3.000	*72.6*
76B2–32	3.250	*82.5*	80–32 or 81–32	2.406 or 1.995	*61.1 or 50.6*
76B2–40	4.000	*101.6*	80–40	3.000	*72.6*
76B4–32	3.250	*82.5*	80–32 or 81–32	2.406 or 1.995	*61.1 or 50.6*
76B4–40	4.000	*101.6*	80–40	3.000	*72.6*
96A–47	4.750	*120.6*	190–47 or 192–47	3.000 or 3.875	*72.6 or 98.4*
96A2–47					
96A4–47					
96B–47					

✷ *For information on packer or accessory sizes not found in this specification guide, refer to Baker Hughes' packer systems technical manual or your Baker Hughes representative.*

● *When proposed for use in other than the casing weight range shown, contact your Baker Hughes representative.*

■ *The maximum OD (including tolerance) of any part run through a production packer should be at least 1/16-in. (1.59mm) smaller than the minimum bore through the packer body. This may occasionally require that the coupling ODs be turned down.*

▲ *Tubing-seal assemblies, tubing seal and spacer nipples.*

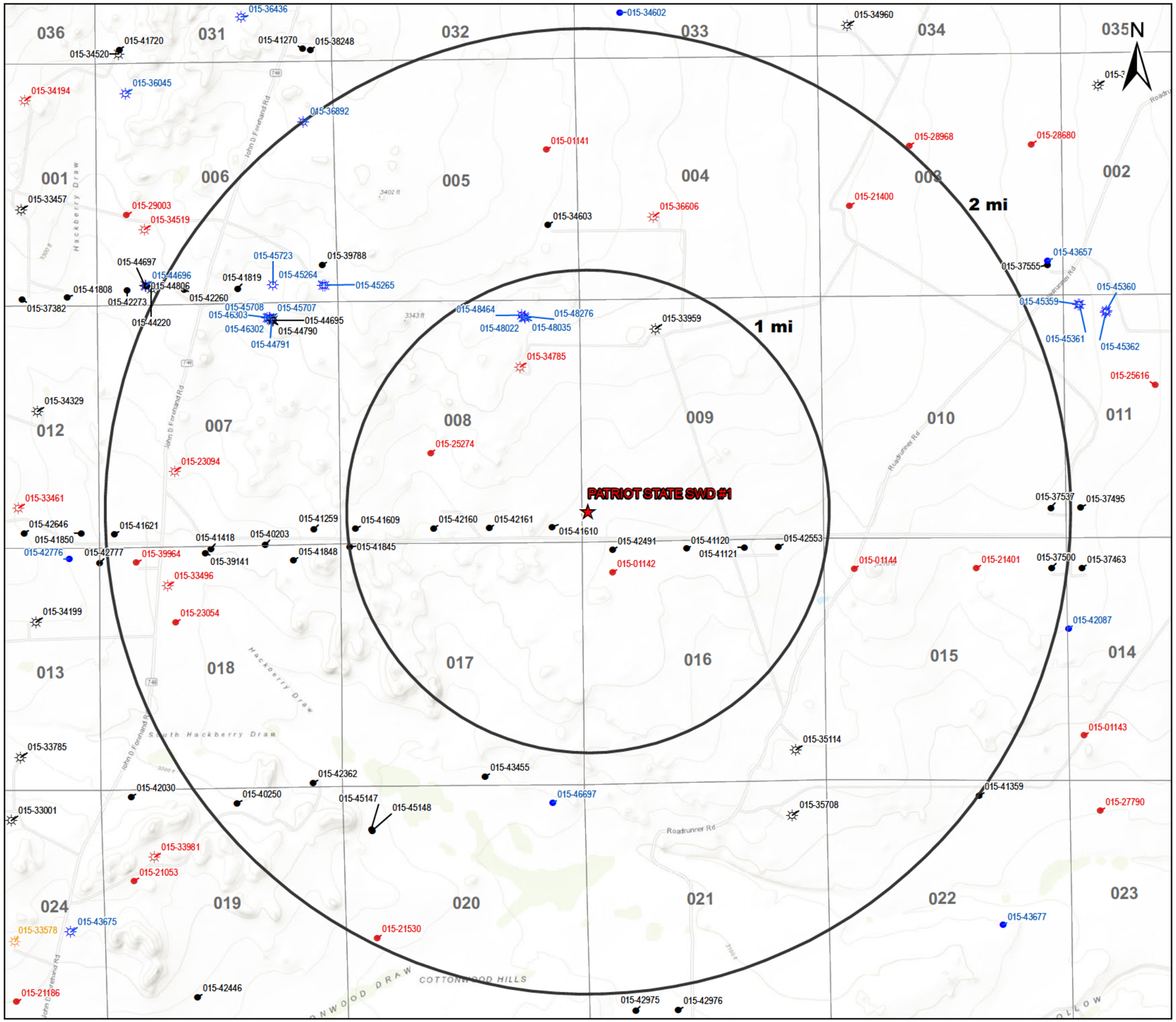
◆ *This tool available with 3.250 in. (82.5 mm) or 4.000 in. (101.6 mm) seal bore diameter and uses sizes 80-32/ 81–32 or 80–40 accessories respectively.*

▼ *When selecting a SC-2 packer for a casing weight common to two size packers choose the packer with the smallest OD to maximize running clearances. Example: In 5-1/2-in. (139.7-mm), 20.0-lb/ft casing, use size 55A2–26.*

Attachment 2

Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1-mile Well Detail List
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- 1.5-mile Deep SWD Map (Devonian/Silurian SWDs)
- Potash Lease Map



Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Source Info: NMOCD O&G Wells updated 10/27/2021 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/l)

O&G Wells Area of Review

PATRIOT STATE SWD #1

Eddy County, New Mexico

Proj Mgr: Nate Alleman	November 30, 2021	Mapped by: Ben Bockelmann

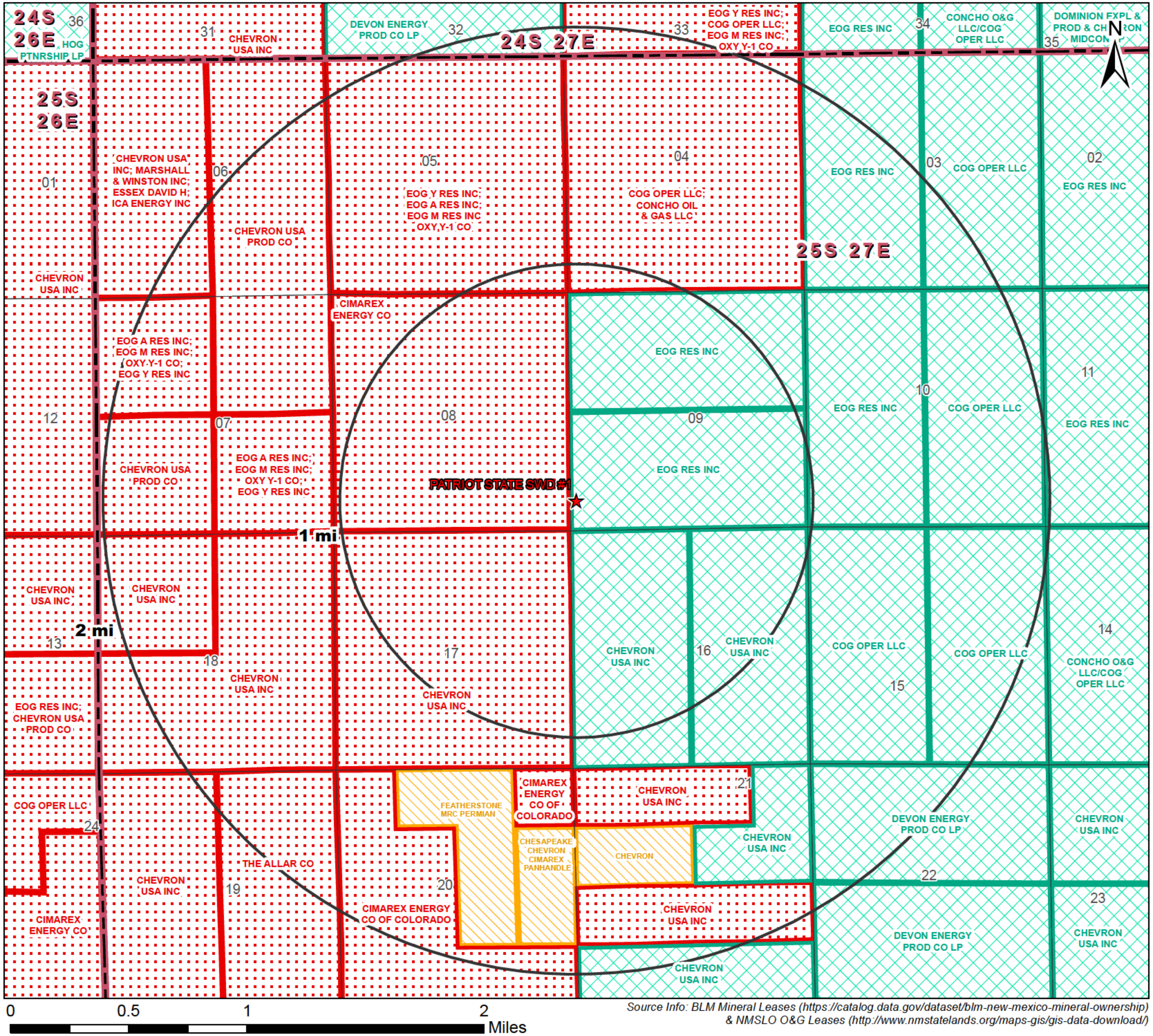
Prepared for:
BLACKBUCK NEW MEXICO LLC

Prepared by:
ALL CONSULTING

AOR Tabulation for Patriot State SWD #1 (Top of Injection Interval: 13,500')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
HAYHURST 16 25 27 STATE #003H	30-015-42491	Oil	CHEVRON U S A INC	8/15/2014	D-16-25S-27E	7550	No
HAYHURST 16 25 27 STATE #001H	30-015-41120	Oil	CHEVRON U S A INC	5/18/2014	C-16-25S-27E	7619	No
HAYHURST 16 25 27 STATE #002H	30-015-41121	Oil	CHEVRON U S A INC	3/23/2014	B-16-25S-27E	6907	No
HAYHURST 16 25 27 STATE #004H	30-015-42553	Oil	CHEVRON U S A INC	9/10/2014	A-16-25S-27E	7582	No
HAYHURST 17 FEDERAL #001H	30-015-41845	Oil	CHEVRON U S A INC	2/23/2014	D-17-25S-27E	12151	No
WHITE CITY 8 FEDERAL #003H	30-015-42160	Oil	CIMAREX ENERGY CO.	7/18/2014	N-08-25S-27E	7419	No
WHITE CITY 8 FEDERAL #002H	30-015-41609	Oil	CIMAREX ENERGY CO.	12/19/2013	M-08-25S-27E	7354	No
WHITE CITY 8 FEDERAL #001	30-015-34785	Plugged	CIMAREX ENERGY CO.	7/18/2006	H-08-25S-27E	Plugged (12405)	No
WHITE CITY 8 FEDERAL #004H	30-015-42161	Oil	CIMAREX ENERGY CO.	9/23/2015	O-08-25S-27E	7490	No
WHITE CITY 8 FEDERAL #005H	30-015-41610	Oil	CIMAREX ENERGY CO.	9/7/2015	P-08-25S-27E	7524	No
WHITE CITY 8 17 FEDERAL COM #017H	30-015-48022	Oil	CIMAREX ENERGY CO.	New Drill	A-08-25S-27E	Proposed (9914)	No
WHITE CITY 8 17 FEDERAL COM #015H	30-015-48035	Gas	CIMAREX ENERGY CO.	New Drill	A-08-25S-27E	Proposed (8961)	No
WHITE CITY 8 17 FEDERAL COM #016H	30-015-48276	Gas	CIMAREX ENERGY CO.	New Drill	A-08-25S-27E	Proposed (8961)	No
WHITE CITY 8 17 FEDERAL COM #018H	30-015-48464	Gas	CIMAREX ENERGY CO.	New Drill	A-08-25S-27E	Proposed (9914)	No
PADRON BGM STATE COM #001	30-015-33959	Gas	EOG RESOURCES INC	2/25/2005	C-09-25S-27E	12535	No
PRE-ONGARD WELL #001	30-015-01142	Plugged	PRE-ONGARD WELL OPERATOR (R.E. Sutton)	Unknown*	D-16-25S-27E	Plugged (2320)	No
PRE-ONGARD WELL #001	30-015-25274	Plugged	PRE-ONGARD WELL OPERATOR (Max Wilson, Inc.)	5/15/1985	K-08-25S-27E	Plugged (3609)	No

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



Source Info: BLM Mineral Leases (https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership)
& NMSLO O&G Leases (http://www.nmstatelands.org/maps-gis/gis-data-download/)

Legend

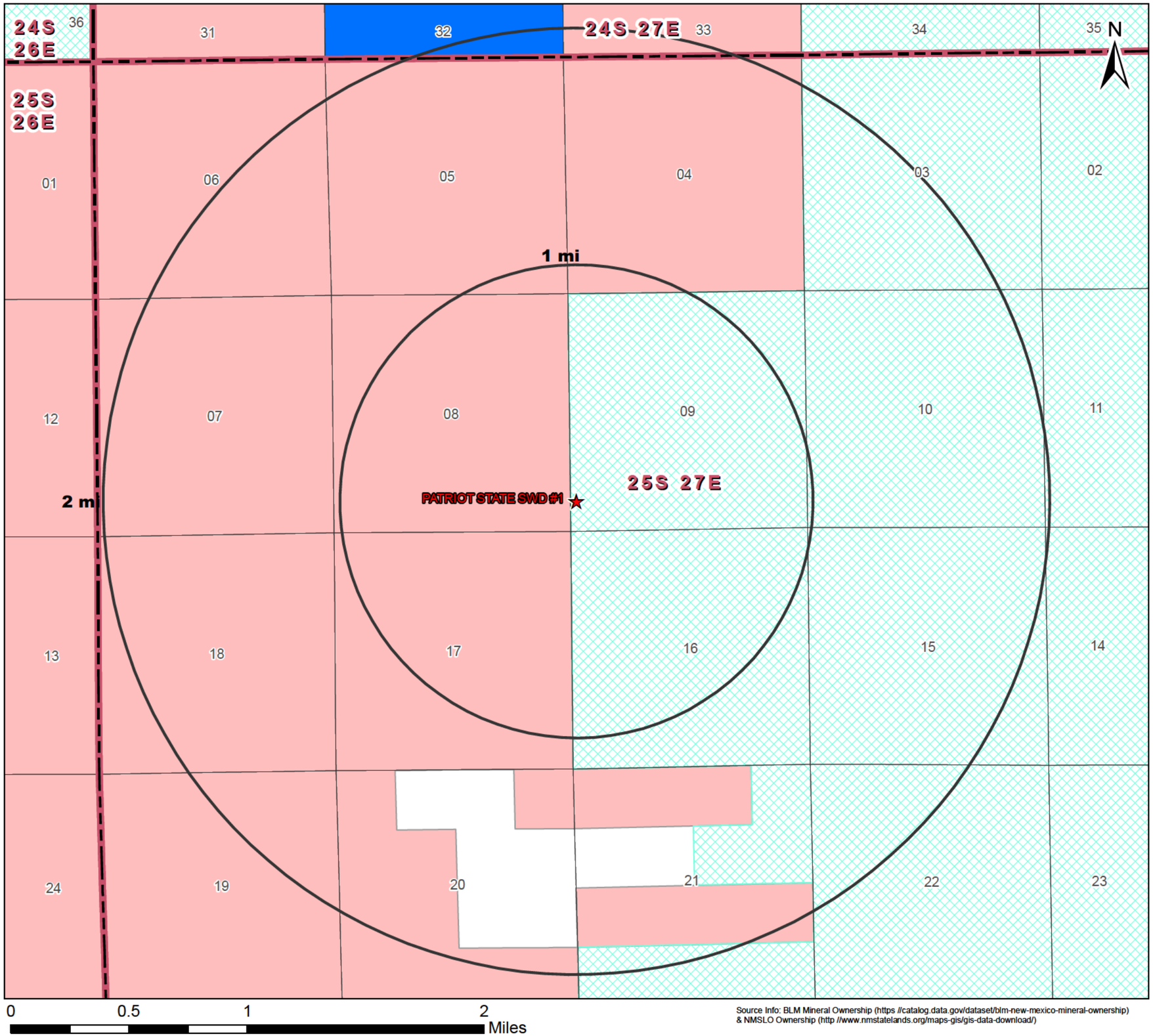
- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases

Mineral Lease Area of Review

PATRIOT STATE SWD #1
Eddy County, New Mexico

Proj Mgr: Nate Alleman	November 30, 2021	Mapped by: Ben Bockelmann

Prepared for: BLACKBUCK NEW MEXICO LLC	*Prepared by:* ALL CONSULTING



Legend

- Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

Source Info: BLM Mineral Ownership (https //catalog.data.gov/dataset/blm-new-mexico-mineral-ownership) & NMSLO Ownership (http //www.nmstatelands.org/maps-gis/gis-data-download/)

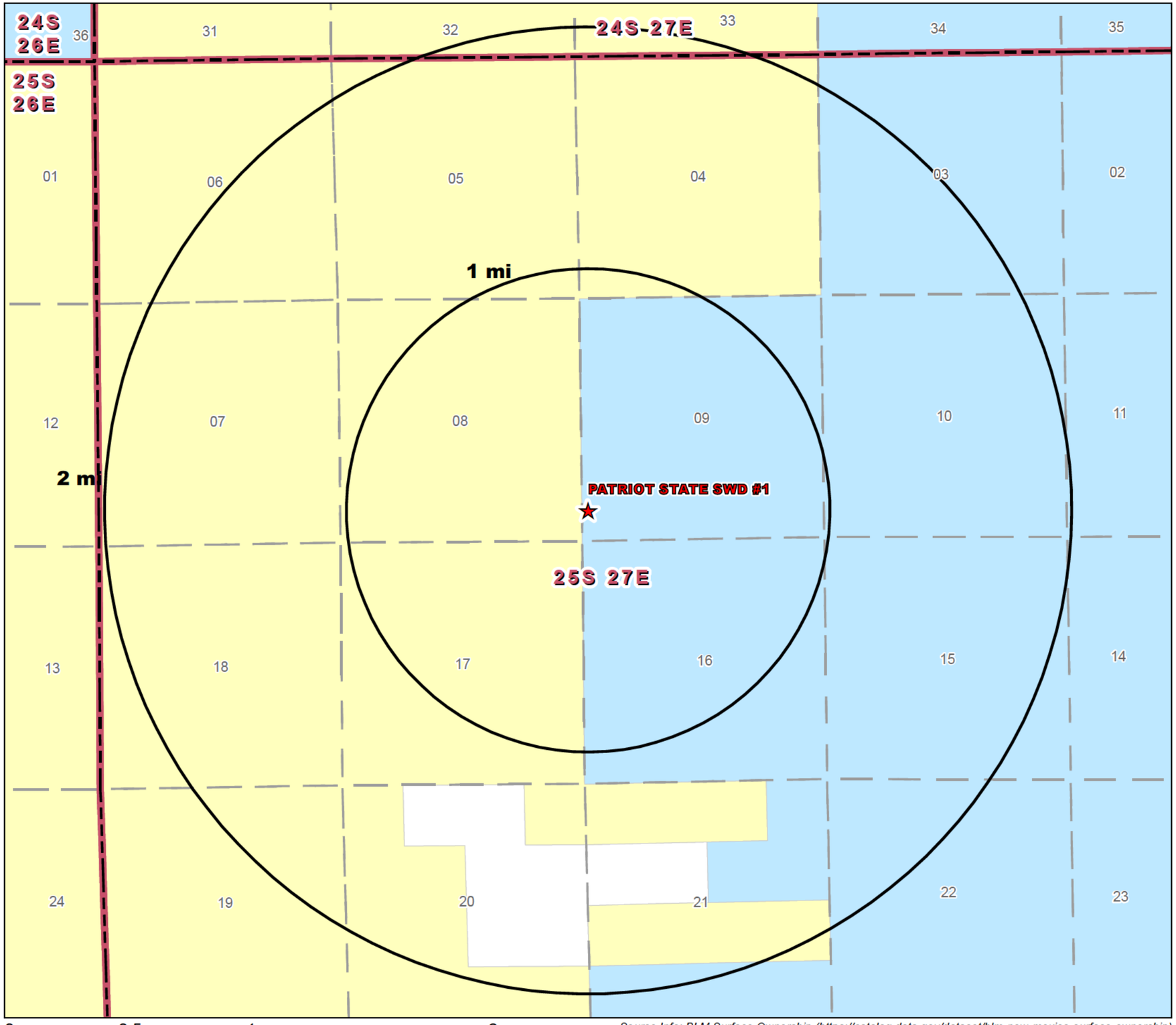
Mineral Ownership
Area of Review

PATRIOT STATE SWD #1
Eddy County, New Mexico

Proj Mgr: Nate Alleman	November 30, 2021	Mapped by: Ben Bockelmann

Prepared for:
BLACKBUCK NEW MEXICO LLC

Prepared by:
ALL CONSULTING



Source Info: BLM Surface Ownership (https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership)

N

Legend

- Proposed SWD

Surface Ownership

- BLM
- Private
- State

Surface Ownership
Area of Review

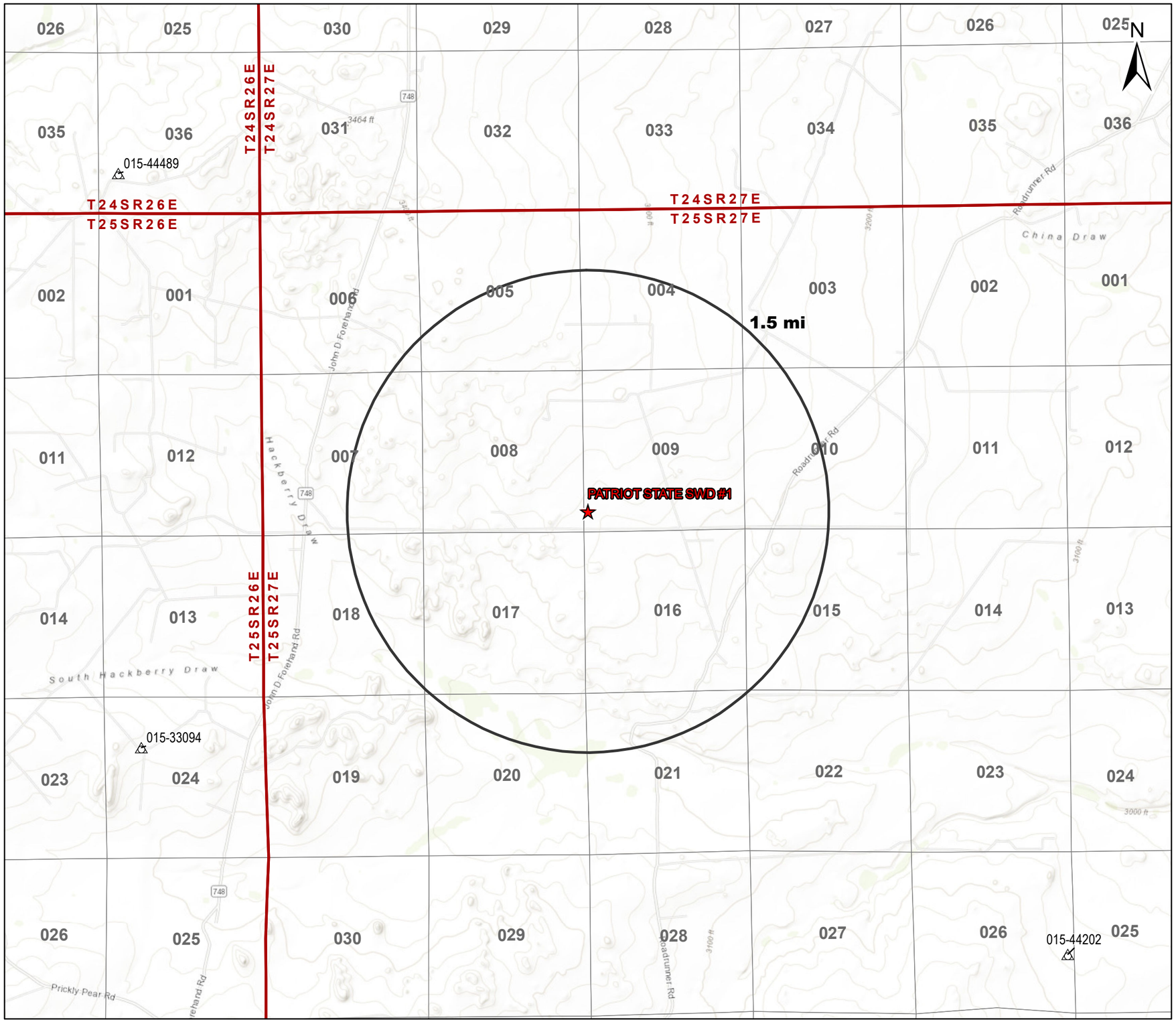
PATRIOT STATE SWD #1

Eddy County, New Mexico

Proj Mgr: Nate Alleman	November 30, 2021	Mapped by: Ben Bockelmann

Prepared for:
BLACKBUCK NEW MEXICO LLC

Prepared by:
ALL CONSULTING



Legend

- ★ Proposed SWD

Deep SWDs

- △ Salt Water Injection, Active (3)

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Source Info: NMOCD O&G Wells updated 10/27/2021 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/l)

Deep SWDs Area of Review

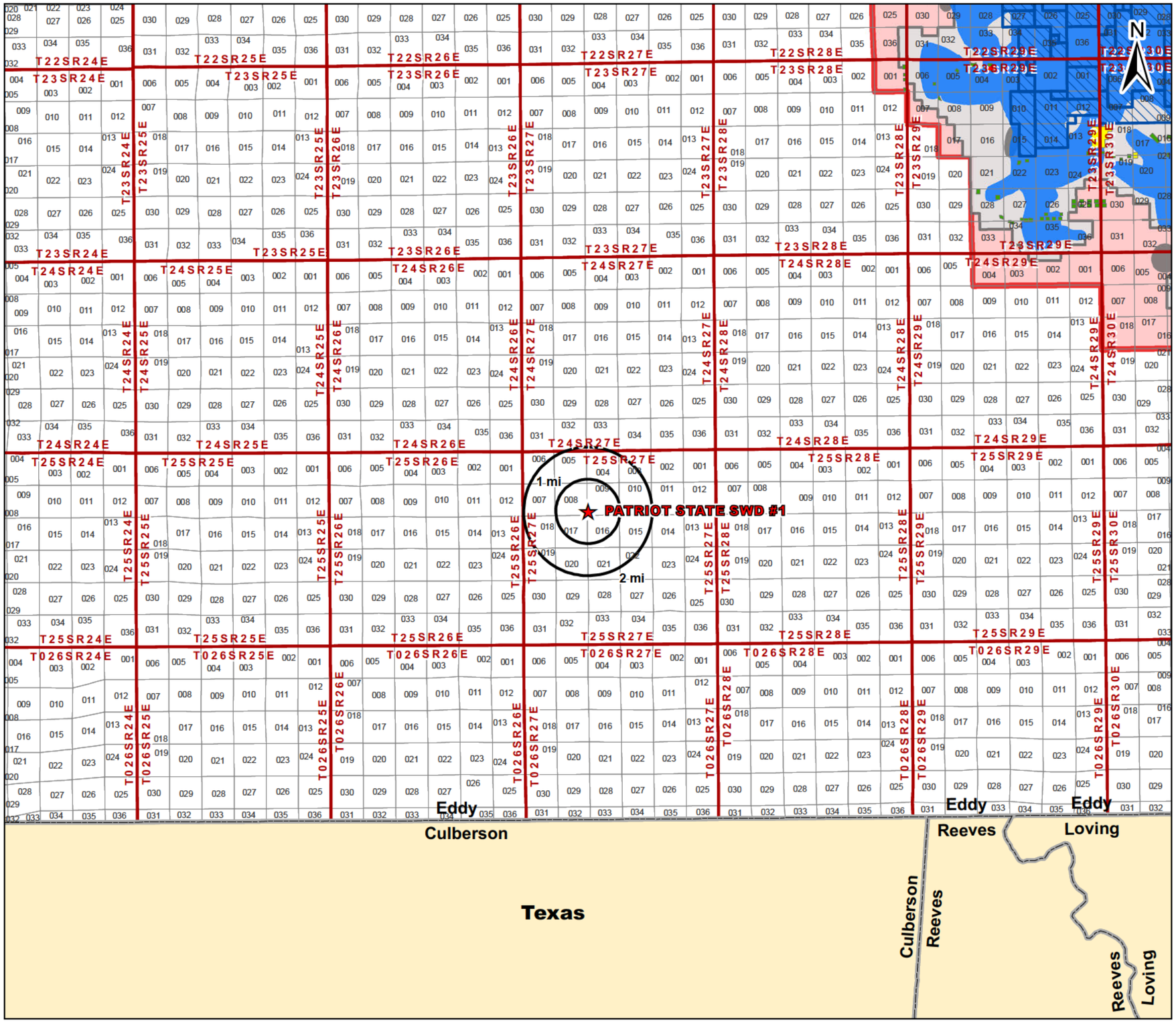
PATRIOT STATE SWD #1

Eddy County, New Mexico

Proj Mgr: Nate Alleman	November 30, 2021	Mapped by: Ben Bockelmann

Prepared for:
BLACKBUCK NEW MEXICO LLC

Prepared by:
ALL CONSULTING



Legend

- Proposed SWD
- Potash Leases
- Ore Type - Measured
- Ore Type - Indicated
- KPLA
- SOPA

Drill Islands

Status

- Approved
- Denied
- Nominated
- Withdrawn

Source Info: BLM CFO Potash (https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html)

Potash Leases
Area of Review

PATRIOT STATE SWD #1
Eddy County, New Mexico

Proj Mgr: Nate Alleman	November 30, 2021	Mapped by: Ben Bockelmann

Prepared for:
BLACKBUCK NEW MEXICO LLC

Prepared by:
ALL CONSULTING

Attachment 3

Source Water Analyses

Source Water Analysis

Blackbuck Resources, LLC - Wolfcamp and Bone Spring Formation

Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Company	Field	Formation	Tds_mgL	Chloride_mgL	Bicarbonate_mgL	Sulfate_mgL
DOC HOLLIDAY 32 STATE COM #001	3001541145	32.180412	-104.220192	32	24S	27E	D	150N	330W	EDDY	NM			BONE SPRING 2ND SAND	193316.3	120600	170.8	17
PREACHER 19 FEDERAL #003H	3001541887	32.19577	-104.2276001	19	24S	27E	O	150S	1980E	EDDY	NM			BONE SPRING 2ND SAND	193786.1	119000	130	34
PREACHER 19 FEDERAL #003H	3001541887	32.19577	-104.2276001	19	24S	27E	O	150S	1980E	EDDY	NM			BONE SPRING 2ND SAND	177819.6	108940.6	366	0
WHITE CITY PENN GAS COM UNIT 1 #001	3001500408	32.193752	-104.3088455	29	24S	26E	A	660N	660E	EDDY	NM			WOLFCAMP		10000	645	1320
JOSEY WALES 16 STATE COM #003H	3001541090	32.2104	-104.1936798	16	24S	27E	O	150S	1980E	EDDY	NM			BONE SPRING 2ND SAND	179419.7	112857	146.4	573
DOC HOLLIDAY 32 STATE COM #001	3001541145	32.180412	-104.220192	32	24S	27E	D	150N	330W	EDDY	NM			BONE SPRING 2ND SAND	205799.3	128748.7	122	17
PREACHER 19 FEDERAL #003H	3001541887	32.19577	-104.2276001	19	24S	27E	O	150S	1980E	EDDY	NM			BONE SPRING 2ND SAND	203717.6	125604.7	144	34
JOSEY WALES 16 STATE COM #003H	3001541090	32.2104	-104.1936798	16	24S	27E	O	150S	1980E	EDDY	NM			BONE SPRING 2ND SAND	176588.8	109722	146	0
DOC HOLLIDAY 32 STATE COM #001	3001541145	32.180412	-104.220192	32	24S	27E	D	150N	330W	EDDY	NM			BONE SPRING 2ND SAND	197760.1	123849.8	146	0
HABANERO 17 FEDERAL COM #001H	3001536108	32.221848	-104.2062683	17	24S	27E	A	990N	660E	EDDY	NM			WOLFCAMP	108205	65927.2	146	0
SERRANO 29 FEDERAL #001H	3001537763	32.189884	-104.2062149	29	24S	27E	H	1980N	660E	EDDY	NM			WOLFCAMP	102136.2	62812.7	183	0
DOC HOLLIDAY 32 STATE COM #001	3001541145	32.180412	-104.220192	32	24S	27E	D	150N	330W	EDDY	NM			BONE SPRING 2ND SAND	127681.6	77098	195.2	0
PREACHER 19 FEDERAL #003H	3001541887	32.19577	-104.2276001	19	24S	27E	O	150S	1980E	EDDY	NM			BONE SPRING 2ND SAND	312558	186000	201.4	3947
PREACHER 19 FEDERAL #003H	3001541887	32.19577	-104.2276001	19	24S	27E	O	150S	1980E	EDDY	NM			BONE SPRING 2ND SAND	312550	186000	201.4	0
JOSEY WALES 16 STATE COM #003H	3001541090	32.2104	-104.1936798	16	24S	27E	O	150S	1980E	EDDY	NM			BONE SPRING 2ND SAND	179141.4	109122.7	73.2	0
DOC HOLLIDAY 32 STATE COM #001	3001541145	32.180412	-104.220192	32	24S	27E	D	150N	330W	EDDY	NM			BONE SPRING 2ND SAND	203230.2	124268.5	48.8	0
SERRANO 29 FEDERAL #001H	3001537763	32.189884	-104.2062149	29	24S	27E	H	1980N	660E	EDDY	NM			WOLFCAMP	100994.9	63450.1	268	0
LEE J FED #001	3001505973	32.215504	-104.3304367	18	24S	26E	J	1980S	1980E	EDDY	NM			WOLFCAMP		9100		7300
ODIE 4 STATE #001H	3001541311	32.152496	-104.098938	4	25S	28E	M	210S	660W	EDDY	NM			BONE SPRING 2ND SAND	190675.4	119078	93.1	17
IRRITABLE 22 STATE COM #002H	3001541359	32.121918	-104.1758957	22	25S	27E	B	330N	1980E	EDDY	NM			BONE SPRING 2ND SAND	161087	100324.4		544
NERMAL 4 STATE #001H	3001541239	32.165981	-104.0945816	4	25S	28E	C	207N	1980W	EDDY	NM			BONE SPRING 2ND SAND	208311.9	123723	61	1.7
POOKY 4 STATE #001H	3001541241	32.165974	-104.0859146	4	25S	28E	A	207N	660E	EDDY	NM			BONE SPRING 2ND SAND	204576.5	125493	48.8	0

Attachment 4

Injection Formation Water Analyses

Injection Formation Analysis

Blackbuck Resources, LLC - Devonian Formation

Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Company	Field	Formation	Tds_mgL	Chloride_mgL	Bicarbonate_mgL	Sulfate_mgL
WHITE CITY PENN GAS COM UNIT 1 #001	3001500408	32.193752	-104.3088455	29	24S	26E	A	660N	660E	EDDY	NM			DEVONIAN		10120	653	1336
JURNEGAN POINT #001	3001510280	32.240524	-104.423912	5	24S	25E	M	660S	660W	EDDY	NM		WILDCAT	DEVONIAN	229706	136964	198	2511
JURNEGAN POINT #001	3001510280	32.240524	-104.423912	5	24S	25E	M	660S	660W	EDDY	NM		WILDCAT	DEVONIAN	203100	121100	175	2220

Attachment 5

Water Well Map and Well Data

0 0.25 0.5 1 Miles

SourceInfo: ttps://gis.ose.state.nm.us/arcgis/rest/services/WatersPod/OSE_PODs/MapServer/0

Legend

- ★ Proposed SWD

NMOSE PODs

Status

- Active (0)
- Pending (0)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (0)

Water Wells Area of Review

PATRIOT STATE SWD #1

Eddy County, New Mexico

Proj Mgr: Nate Alleman	November 30, 2021	Mapped by: Ben Bockelmann
Prepared for: **BLACKBUCK NEW MEXICO LLC**	*Prepared by:* ALL CONSULTING	

Water Well Sampling Rationale - Patriot State SWD #1					
Water Wells	**Owner**	**Available Contact Information**	**Use**	**Sampling Required**	**Notes**
Note: No Water Wells are present within 1-mile of the proposed SWD location.					

Attachment 6

Induced Seismicity Assessment Letter

ALL CONSULTING
GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY
ENGINEERING · ENVIRONMENTAL

November 30, 2021

Mr. Phillip Goetze, P.G.
NM EMNRD – Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Subject: Induced Seismicity Potential Statement for the Patriot State SWD #1

Dear Mr. Goetze,

This letter provides information regarding the seismic potential associated with injection operations associated with the Blackbuck New Mexico LLC (Blackbuck), Patriot State SWD #1, hereinafter referred to as the "Subject Well."

As outlined herein, based on my experience as an expert on the issue of induced seismicity, it is my opinion that the potential for the proposed injection well to cause injection-induced seismicity is expected to be minimal, at best. This conclusion is based on (1) the lack of historic seismic activity and faulting in the area, (2) the low fault slip potential (FSP) of Precambrian faults in the area, (3) the presence of confining layers, and (4) the overall vertical distance between the proposed injection zone and basement rock.

The Subject Well, is located 671' FSL & 142' FWL of Section 9, in T25-S and R27-E of Eddy County, New Mexico. Historically, the Eddy County area has experienced very limited recorded seismic activity (per the U.S. Geological Survey [USGS] earthquake catalog database). There have been eighteen known seismic events located within a 25-mile radius of the proposed subject well. The closest recorded seismic event was a M4.0 that occurred on November 28, 1974 and was located approximately 12.35 miles northeast of the subject well (See Exhibit 1). The closest Class IID well injecting into the same formations (Devonian-Silurian) of the Subject Well is approximately 3.14 miles to the southwest (See Exhibit 1).

Fault data from USGS & Texas Railroad Commission indicates that the closest known fault is approximately 2.36 miles northeast of the Subject Well (See Exhibit 1).

In a recent paper written by Snee and Zoback (2018) entitled "State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity,", the authors found that large groups of mostly north-south striking Precambrian basement faults, predominantly located along the Central Basin Platform, the western Delaware Basin, and large parts of the Northwest Shelf (which includes Eddy and Lea counties, New Mexico) have low FSP at the modeled fluid-pressure perturbation. The map in Exhibit 2 depicts the low probability risk of FSP for the Delaware Basin and Northwest Shelf areas (Snee and Zoback 2018).

Geologic analysis indicates that the proposed Devonian-Silurian injection zone is overlain by approximately 200 feet of Woodford Shale, which is the upper confining zone and will serve as a barrier for upward injection fluid migration. Additionally, the Simpson Group that lies directly below the Montoya Formation will act as a lower confining zone to prohibit fluids from migrating downward into the underlying Ellenberger Formation and Precambrian basement rock. See the stratigraphic column for the Delaware Basin included in Exhibit 3.

In the Eddy and Lea Counties area of New Mexico, the Simpson Group is comprised of a series of Middle to Upper Ordovician carbonates, several sandstones, and sandy shales that range from approximately 350 to 650 feet thick (Jones 2008). This group of rocks is capped by the limestones of the Bromide Formation, which is approximately 200 feet thick in this area (Jones 2008). The closest deep well drilled into the Precambrian basement was completed by the Skelly Oil Company in 1975. This well is located in Section 17, Range 36E, Township 25S of Lea County (API No.30-025-25046) and encountered 602 feet of Ellenburger Formation before reaching the top of the Precambrian granite at a depth of 18,920 feet. Based on the estimated thickness of the Simpson Group and Ellenburger Formation in this area, the Precambrian basement should be approximately 4,650 feet below the bottom of the proposed injection zones in the Subject Well.

Conclusion

As an expert on the issue of induced seismicity, it is my opinion that the potential for the proposed injection well to cause injection-induced seismicity is expected to be minimal, at best. This conclusion is based on (1) the lack of historic seismic activity and faulting in the area, (2) the low FSP of Precambrian faults in the area, (3) the presence of confining layers, and (4) the overall vertical distance between the proposed injection zone and basement rock.

Sincerely,
ALL Consulting

J. Daniel Arthur, P.E., SPEC
President and Chief Engineer

Enclosures
References
Exhibits

References

Ball, Mahlon M. 1995. "Permian Basin Province (044)." In *National Assessment of United States Oil and Gas Resources—Results, Methodology, and Supporting Data.* U.S. Geological Survey. https://certmapper.cr.usgs.gov/data/noga95/prov44/text/prov44.pdf (accessed November 10, 2021).

Green, G.N., and G.E. Jones. 1997. "The Digital Geologic Map of New Mexico in ARC/INFO Format." U.S. Geological Survey Open-File Report 97-0052. https://mrdata.usgs.gov/geology/state/state.php?state=NM (accessed November 10, 2021).

Jones, Rebecca H. 2008. "The Middle-Upper Ordovician Simpson Group of the Permian Basin: Deposition, Diagenesis, and Reservoir Development." http://www.beg.utexas.edu/resprog/permianbasin/PBGSP_members/writ_synth/Simpson.pdf (accessed November 10, 2021).

Snee, Jens-Erik Lund, and Mark D. Zoback. 2018. "State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity." *The Leading Edge* 37, no. 2 (February 2018): 127-34.

U.S. Geological Survey (USGS). No date. Earthquakes Hazard Program: Earthquake Catalog. https://earthquake.usgs.gov/earthquakes/search/ (accessed November 10, 2021).

Exhibits

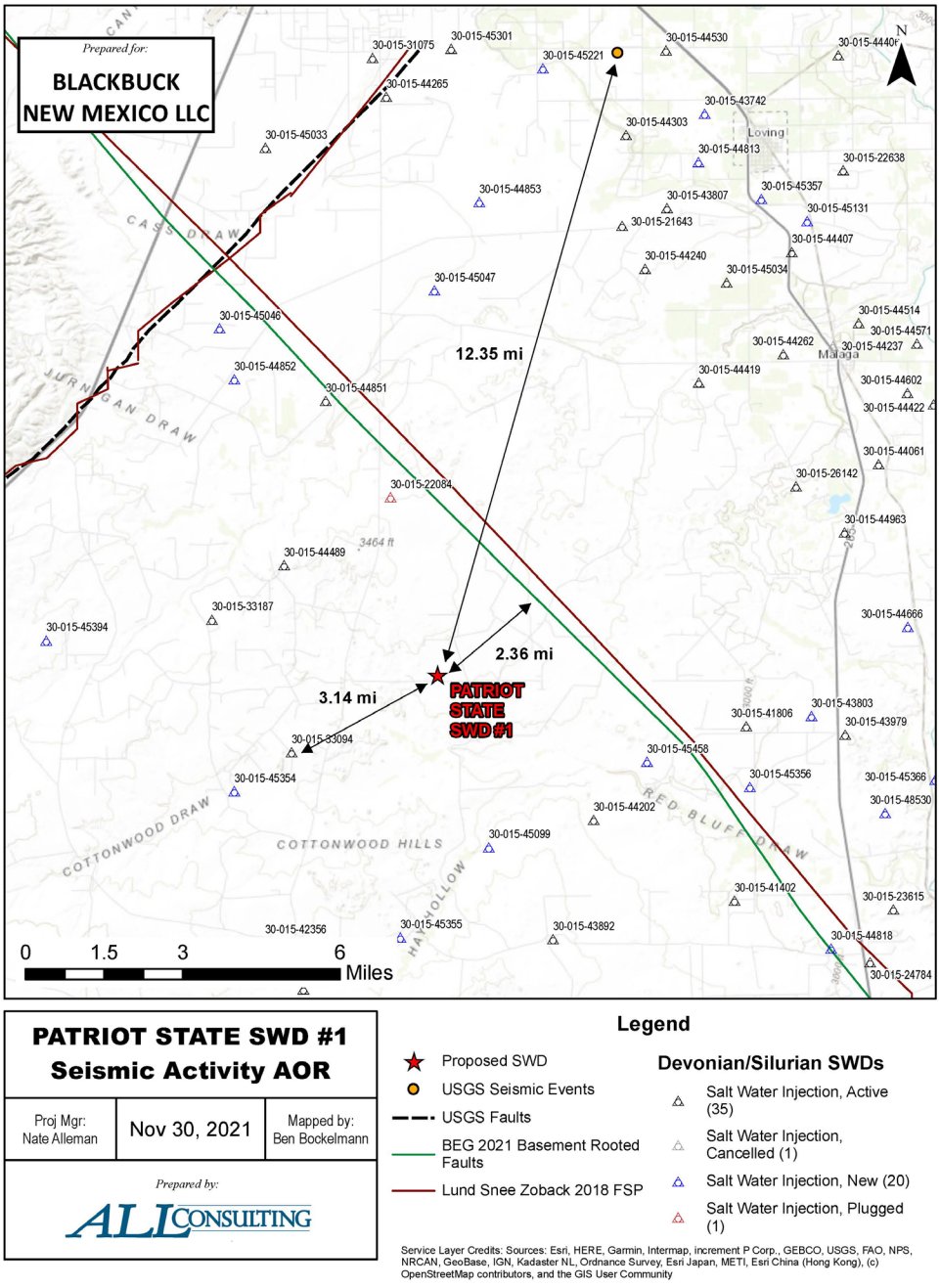


Exhibit 1. Map Showing the Distances from Known and Inferred Faults, Seismic Event, and Closest Deep Injection Well

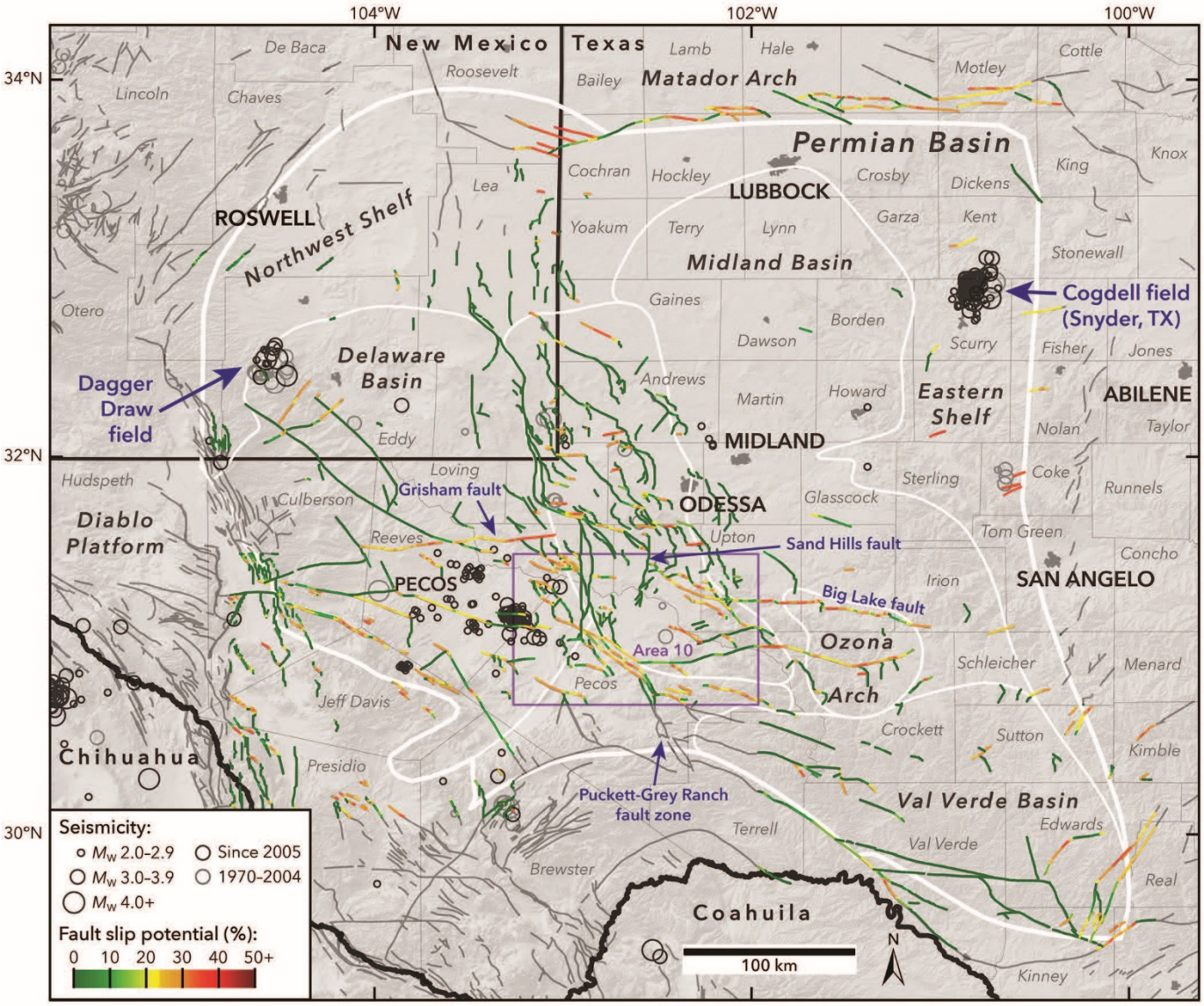


Exhibit 2. Results of the Snee and Zoback (2018) Probabilistic FSP Analysis Across the Permian Basin

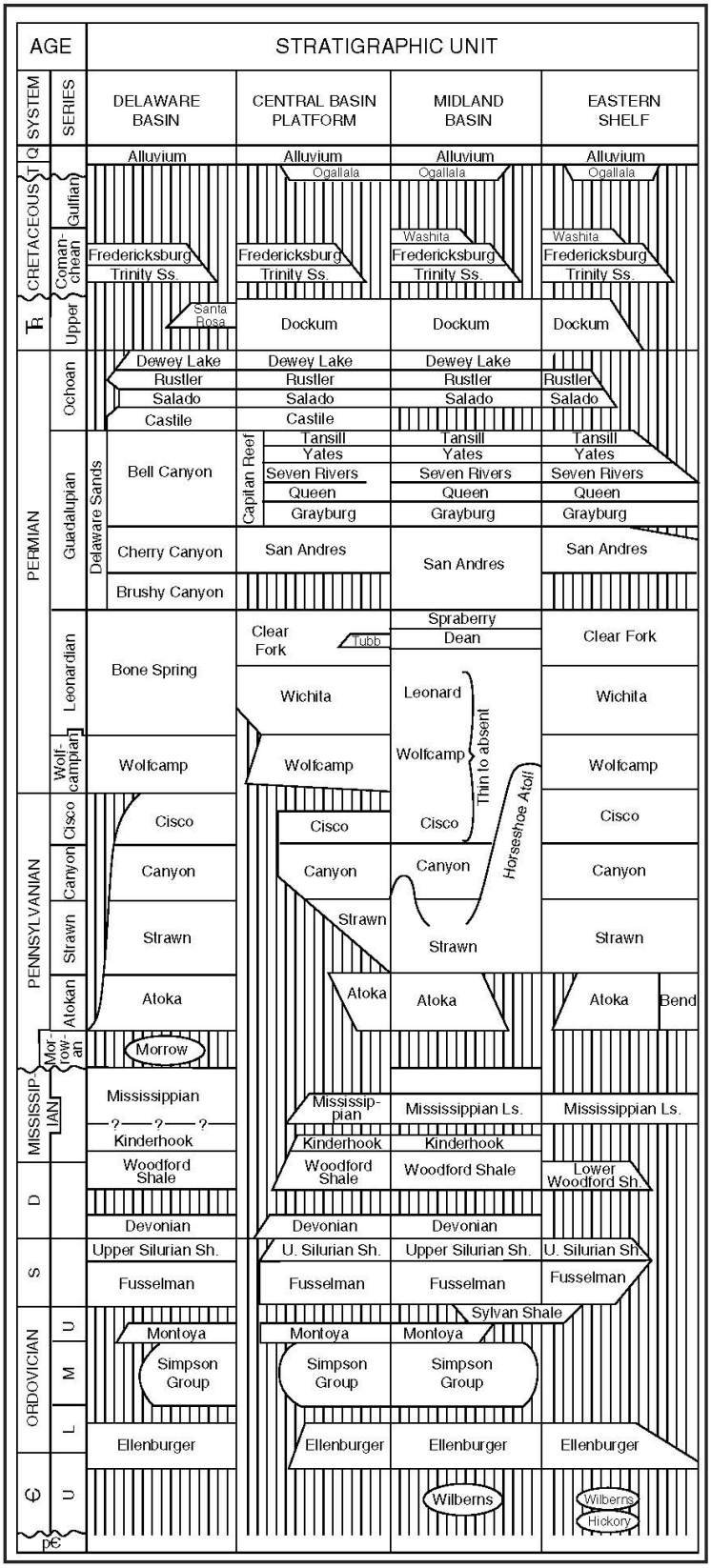


Exhibit 3. Delaware Basin Stratigraphic Chart (Ball 1995)

Attachment 7

Public Notice Affidavit and Notice of Application Confirmations

Carlsbad Current Argus.
PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0005002181

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ALL CONSULTING
1718 SOUTH CHEYENNE AVE

TULSA, OK 74119

I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof in editions dated as follows:

11/16/2021

Legal Clerk

Subscribed and sworn before me this November 16, 2021:

State of WI, County of Brown
NOTARY PUBLIC

9-19-25

My commission expires

APPLICATION FOR
AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That Blackbuck Resources LLC, 2601 Westheimer Rd., Suite C210, Houston, TX 77098, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Patriot State SWD #1
SW ¼ SW ¼, Section 9, Township 25S, Range 27E
671' FSL & 142' FWL
Located11.8-miles southwest from Loving, NM
Eddy County, NM

NAME AND DEPTH OF DISPOSAL ZONE:
Devonian-Silurian (12,738' – 14,738')
EXPECTED MAXIMUM INJECTION RATE:
40,000 Bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE:
2,547 psi (surface)
Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.
#5002181, Current Argus, Nov. 16, 2021

Ad # 0005002181
PO #: 5002181
# of Affidavits 1

This is not an invoice

VICKY FELTY
Notary Public
State of Wisconsin

Patriot State SWD #1 - Notice of Application Recipients				
Entity	**Address**	**City**	**State**	**Zip Code**
Land & Mineral Owner				
Commission of Public Lands - State Land Office	310 Old Santa Fe Trail	Santa Fe	NM	87501
OCD District				
NMOCD District 2	811 S. 1st St.	Artesia	NM	88210
Leasehold Operators				
Cimarex Energy Company (CIMAREX ENERGY CO.) (CIMAREX ENERGY CO OF COLORADO) (CIMAREX)	600 N. Marienfeld St., Suite 600	Midland	TX	79701
Chevron USA Inc (CHEVON PROD CO) (CHEVRON)	6301 Deauville BLVD	Midland	TX	79706
COG Operating, LLC (COG OPER LLC)	600 W. Illinois Ave.	Midland	TX	79701
Concho Oil & Gas, LLC (Concho OIL & GAS LLC) (Concho O&G LLC)	110 West Louisiana Ave, Suite 410	Midland	TX	79701
EOG Resources, Inc (EOG Y RES INC) (EOG A RES INC) (EOG M RES INC) (EOG RES INC)	1111 Bagby Street, Sky Hobby 2	Houston	TX	77002
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
OXY USA Inc. (OXY Y-1 CO)	P.O. Box 27570	Houston	TX	77227-7757

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

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