

DATE IN 3/25/2019	SUSPENSE	ENGINEER	LOGGED IN	TYPE SWD	APP NO. PMA 11908536708
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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
 Print or Type Name

Nate Alleman
 Signature

Regulatory Specialist - ALL Consulting 3-15-2019
 Title Date

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

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: Elizabeth SWD FED 2

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

A.

(1) General Well Information:

Operator: Blackbuck Resources LLC (OGRID No. 373619)

Lease Name & Well Number: Elizabeth SWD FED 2

Location Footage Calls: Unit Letter N, 175' FSL & 1,397' FWL

Legal Location: S27 T23S R31E

Ground Elevation: 3,414'

Proposed Injection Interval: 16,425' – 17,895'

County: Eddy

(2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	24"	20"	133.0 lb/ft	780'	800	Surface	Circulation
Intermediate 1	14-3/4"	13-3/8"	68.0 lb/ft	4,300'	1,000	Surface	Circulation
Intermediate 2	12-1/4"	9-5/8"	53.5 lb/ft	13,365'	5,250	Surface	Circulation
Liner	8-1/2"	7-5/8"	39 lb/ft	16,425'	265	13,165'(TOL)	CBL

(3) Tubing Information:

4-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 16,405'

(4) Packer Information: Lok-set or equivalent packer set at 16,405'

B.

(1) Injection Formation Name: Devonian and Silurian-Fusselman formations

Pool Name: SWD; Devonian - Silurian

Pool Code: 97869

(2) Injection Interval: Open-hole injection between 16,425' – 17,695'

(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.

- Delaware (4,295')
- Bone Springs (8,230')
- Wolfcamp (11,595')
- Atoka (13,510')
- Morrow (14,390')

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
- 1.5-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:** 30,000 bpd
Proposed Average Injection Rate: 15,000 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 3,285 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-Fusselman formations which are non-productive zones known to be compatible with formation water from the Wolfcamp and Bone Springs formations. Water analyses from Silurian-Fusselman 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-Fusselman formations from 16,425 – 17,895 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 freshwater formation is the Rustler at a depth of approximately 780 feet. Water well depths in the area range from approximately 275 – 800 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, 4 groundwater wells are located within 1 mile of the proposed SWD location; however, state water well data and conversations with water well owners have revealed that none of the water wells are currently in use. 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: Wellbore Diagram

Attachment 2: Area of Review Information:

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

Wellbore Diagram

MUD LOGGING E LOGGING/ DIRECTIONAL	CASING SIZE (IN.) CEMENT (SACKS)	DEPTH MD TVD	BOPE	FORMATION	HOLE SIZE (IN.)	MUD WT.	FRAC GRAD	TUBING
					SET AND GROUTED			
	30" GROUT TO SURFACE	120 / 120	OPEN		32"	8.8		
					24"	8.4		
	20" 133# J-55 BTC	655 780 / 780		PERMIAN RUSTLER FM (USDW)				
	800 SACKS, CEMENTED TO SURFACE		26-3/4"-3M ANNULAR/DIVERTER			8.4 9.5		
MUD LOGGING TO BEGIN AT 2500'					14 3/4"	9.5 to 10.0		
	13 3/8" 68# N-80 LTC	4,295 4,300 / 4,300		PERMIAN DELAWARE MTN. GROUP				
	1,000 SACKS, CEMENTED TO SURFACE		21-3/4"-5M ANNULAR 21-3/4"-5M BOP			10.0 9.4		
DV TOOL AT ±3,300'IN 9 3/8" OPEN HOLE, ECP BELOW		8,230		PERMIAN BONE SPRING FM.		9.4 to 10.0		
		11,595		PERMIAN WOLFCAMP FM.				
	TOL	13,165 / 13,165						13,155
	9 5/8" 53.5# L-80 LTC	13,365 / 13,365	13-5/8" -10M ANNULAR 13-5/8" -10M BOP			10.0 12.5		
	5,250 SACKS, CEMENTED TO SURFACE IN TWO STAGES	13,365		PENNSYLVANIAN STRAWN FM.				
		13,510		PENNSYLVANIAN ATOKA FM.	8 1/2"	12.5 to 14.6		
		14,390		PENNSYLVANIAN MORROW FM.				
	7 5/8" 39# P-110, ULTRA FJ	16,425 16,425 / 16,425	13-5/8" -10M ANNULAR 13-5/8" -10M BOP	DEVONIAN		14.6	LOK-SET PACKER (OR EQUIV.) AT 16,405'	
	265 SACKS, EST. TOC 13,165' BACK UP INTO THE 9 3/8" CASING (VERIFIED WITH RADIAL CEMENT BOND LOG)				6 1/2"	9.0		16,405'
RUN #1 GR/NEUTRON 17,795-0 USIT/CBL 16,425-0	DUAL 0"	17,695 TD 17,795 / 17,795	13-5/8" -10M ANNULAR 13-5/8" -10M BOP	Base of FUSSELMAN FM				

ELIZABETH SWD FED 2

EDDY COUNTY, NEW MEXICO

PN # 1715.NW4.Q2

FEBRUARY 2019



SIZE
A

SCALE

NTS

ALLCONSULTING
GOVERNMENT RELATIONS - ENERGY - PLANNING - TECHNOLOGY
ENGINEERING - ENVIRONMENTAL

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WELL BORE DATA SHEET

A-3 and AL-2 LOK-SET Retrievable Casing Packers

Product Family No. H64630 and H64628

APPLICATION

The A-3™ LOK-SET™ packer combines advantages of a retrievable packer with the features of a permanent packer. An ability to lock down tubing forces makes the A-3 suitable for a broad range of applications, including production, injection, zone isolation, and remedial operations. The AL-2™ LOK-SET packer is similar to the A-3, and has a larger bore.

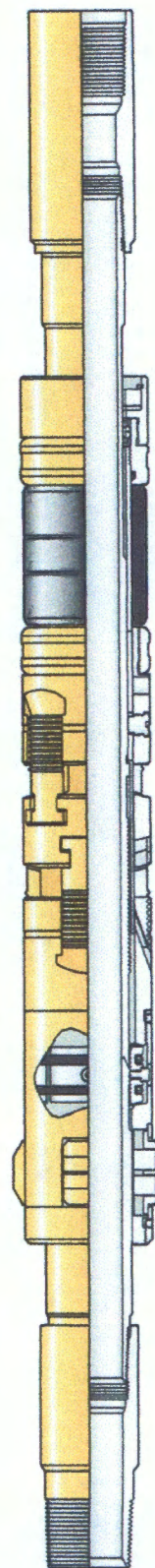
Advantages

- Holds pressure from above and below, without relying on set-down weight, tubing tension, or hydraulic hold down
- Provides tubing anchoring with tension applied, suitable for pumping wells or injection, controlling tubing forces related to change fluid temperatures
- Opposed, non-transferring, dovetail slips prevent packer movement associated with changing differential pressures, while allowing the landing of the tubing in tension, neutral or compression
- Right-hand tubing rotation controls setting and releasing
- Packing element compression locks in by ratcheting action of lock segments, which restricts rotation to one direction

Accessories

To provide a simple and reliable injection system for retrieving an injection string without having to unseat the packer:

L-10 or L-316 on-off sealing connectors, Product Family Nos. H68420 and H68422. Baker Hughes blanking plug can be used in the seating nipple profile of the on-off sealing connector to provide a means of plugging the lower zone while the tubing is being pulled.



A-3 LOK-SET
Retrievable Casing Packer
Product Family No. H64630

SPECIFICATION GUIDES

A-3™ LOK-SET Retrievable Casing Packer, Product Family No. H64630

Casing			Packer				
OD		Weight • lb/ft	Size	Nom ID		Max Gage Ring OD	
in.	mm			in.	mm	in.	mm
4	101.6	9.5-12.9	41A2	1.500	38.1	3.244	82.4
4-1/2	144.3	21.6-23.6	41A2	1.500	38.1	3.244	82.4
4	101.6	9.5	41A4	1.500	38.1	3.423	112.4
4-1/2	114.3	18.8	41A4	1.500	38.1	3.423	112.4
		13.5-17.7	41B			3.578	90.9
		11.6-13.5	43A2	1.978	50.2	3.786	96.2
		9.5-10.5	43A4			3.786	96.2
5	127.0	15-18	43B	1.978	50.2	4.140	105.2
		11.5-15	43C			4.265	108.3
5-1/2	139.7	26	43C	1.978	50.2	4.265	108.3
		20-23	45A2			4.515	114.7
		15.5-20	45A4			4.656	118.3
		13-15.5	45B			4.796	121.8
6	152.4	26	45B	1.978	50.2	4.796	121.8
		20-23	45C			5.078	129.0
		15-18	45D			5.171	131.3
6-5/8	168.3	34	45E	1.978	50.2	5.421	137.7
		24-32	45F			5.499	139.7
		24	47A2	2.441	62.0	5.671	144.0
		17-24	45G	1.978	50.2	5.796	147.2
		17-20	47A4	2.441	62.0	5.827	148.0
7	177.8	38	47A2	2.441	62.0	5.671	144.0
		32-35	47A4			5.827	148.0
		26-29	47B2			5.983	152.0
		23-26	47B4			6.093	154.8
		17-20	47C2			6.281	159.5
7-5/8	193.7	33.7-39	47C4	2.441	62.0	6.468	164.3
		24-29.7	47D2			6.687	169.9
		20-24	47D4			6.827	173.4
8-5/8	219.1	44-49	49A2	3.500	88.9	7.327	186.1
		32-40	49A4			7.546	191.7
		20-28	49B			7.796	198.0
9-5/8	244.5	47-53.5	51A2	3.500	88.9	8.234	209.1
		40-47	51A4			8.452	214.7
		29.3-36	51B			8.608	218.6

AL-2™ Large Bore LOK-SET Retrievable Casing Packer Product Family No. H64628

Casing		Packer							
OD		Weight • lb/ft	Size	Nom ID		Max Gage Ring OD		Max Diameter of Compressed Drag Block	
in.	mm			in.	mm	in.	mm	in.	mm
5-1/2	139.7	20	45A2 x 2-3/8	2.375	60.3	4.562	115.9	4.592	116.6
		15.5-17	45A4 x 2-3/8			4.656	118.3	4.750	120.7
		13	45B x 2-3/8			4.796	121.8	4.902	124.5
6	152.4	26	45B x 2-3/8	2.375	60.3	4.796	121.8	4.902	124.5

- When selecting a packer for a casing weight common to two weight ranges (same OD), choose the packer size shown for the lighter of the two weight ranges. Example: for 7-in. (177.8 mm) OD 26 lb/ft casing use packer size 47B4. Under certain circumstances the other packer size may be run, such as when running in mixed casing strings.
- Repair kits, including such items as packing elements, seal rings, etc., are available for redressing Baker Retrievable Packers. Contact your Baker Hughes representative. Use only Baker Hughes repair parts.

Attachment 2

Area of Review Information:

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

Legend

- ★ Proposed SWD
- ☆ Gas, Active (12)
- ☆ Gas, New (12)
- ☆ Gas, Plugged (1)
- ☆ Injection, Active (1)
- Oil, Active (290)
- Oil, New (37)
- Oil, Plugged (72)
- Oil, Temporarily Abandoned (1)
- △ Salt Water Injection, Active (9)
- △ Salt Water Injection, New (1)
- △ Salt Water Injection, Plugged (2)

O&G Wells Area of Review

ELIZABETH SWD FED 2 Eddy County, New Mexico

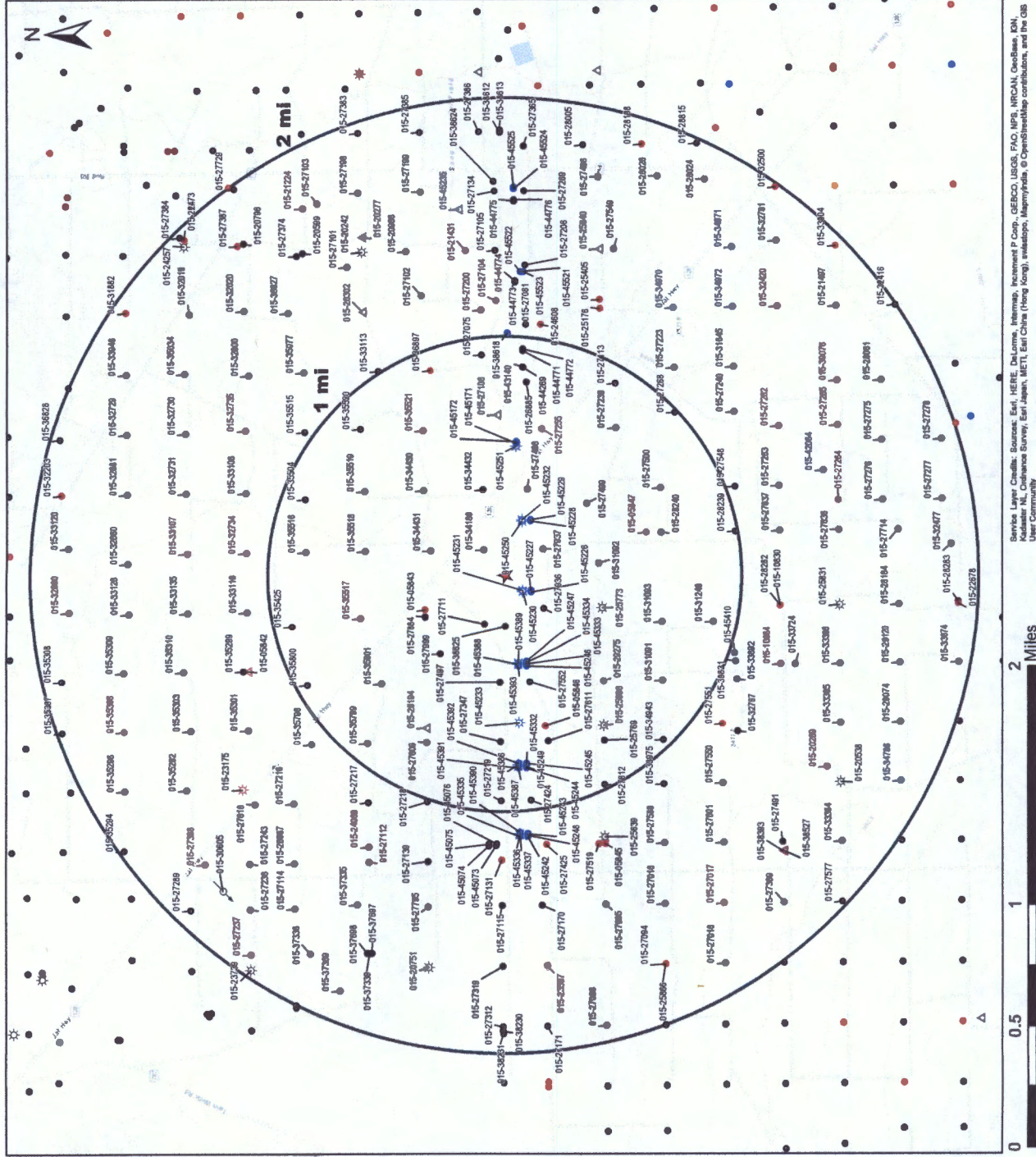
Proj Mgr: Dan Arthur

February 27, 2019

Mapped by:
Ben Bockelmann

Prepared by:

ALCON CONSULTING



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Legend

★ Proposed SWD

BLM Mineral Leases

EOG A RESOURCES INC, EOG M RESOURCES INC, OXY Y-1 COMPANY, EOG Y RESOURCES INC

KAISER FRANCIS OIL, OXY USA INC, EOG RESOURCES INC

MARATHON OIL CO

MOBIL PROD TX & NM

OXY USA INC

OXY USA INC, EOG RESOURCES INC

NMSLO Mineral Leases

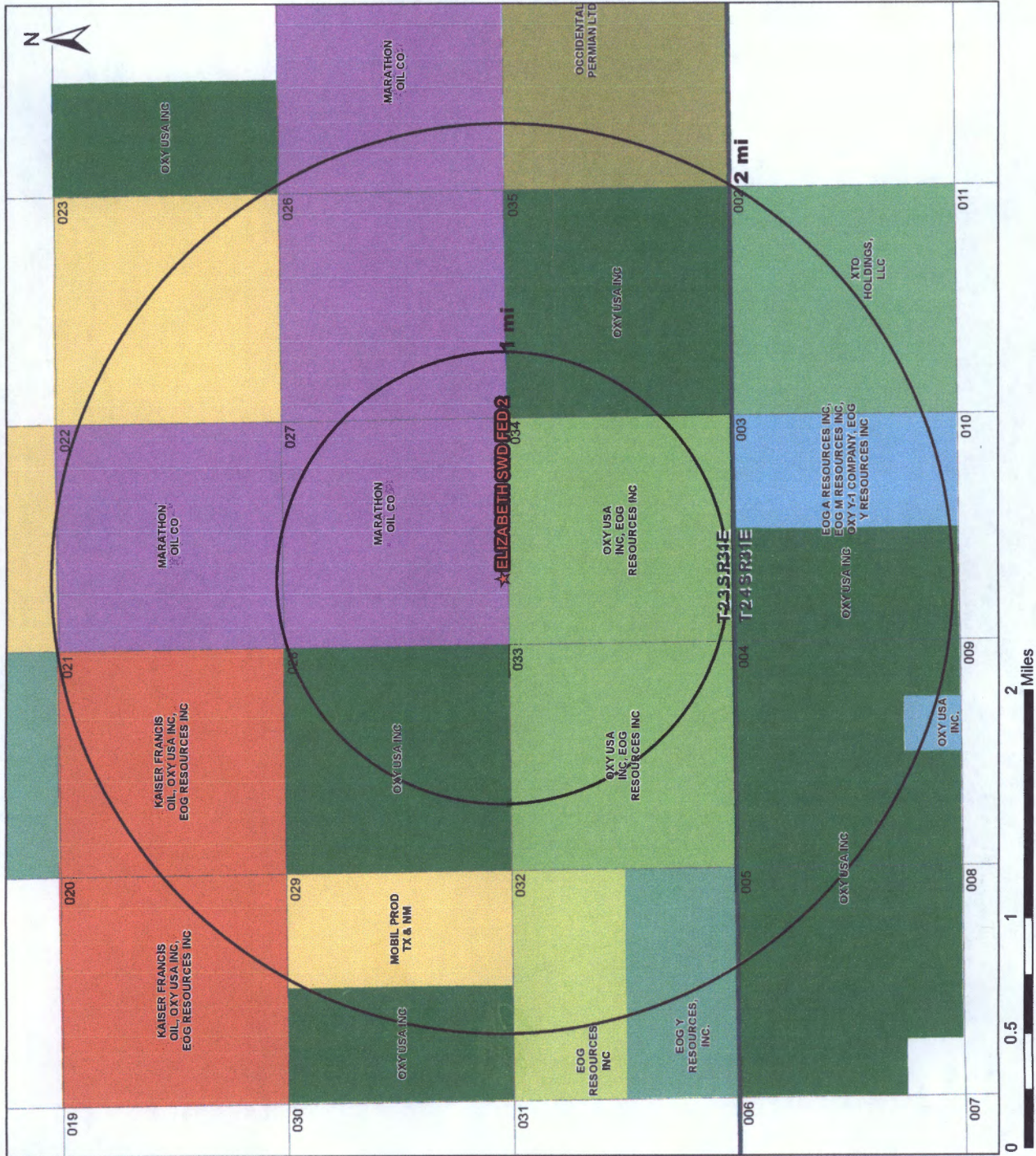
EOG RESOURCES INC

EOG Y RESOURCES, INC.

OCCIDENTAL PERMIAN LTD

OXY USA INC.

XTO HOLDINGS, LLC



Mineral Lease Area of Review		
ELIZABETH SWD FED 2 Eddy County, New Mexico		
Proj Mgr: Dan Arthur	February 27, 2019	Mapped by: Ben Bockelmann
Prepared by: ALCON CONSULTING		



Prepared for:

**BLACKBUCK
RESOURCES**



1.5 mi

128

Jal Hwy

Red Rd

30-015-45235

798

★ **ELIZABETH
SWD FED 2**

128

3523 ft

Jal Hwy

0 0.25 0.5 1
Miles

**ELIZABETH SWD FED 2
Devonian/Silurian SWDs AOR**

Proj Mgr:
Dan Arthur

Feb 26, 2019

Mapped by:
Ben Bockelmann

Prepared by:

ALLCONSULTING

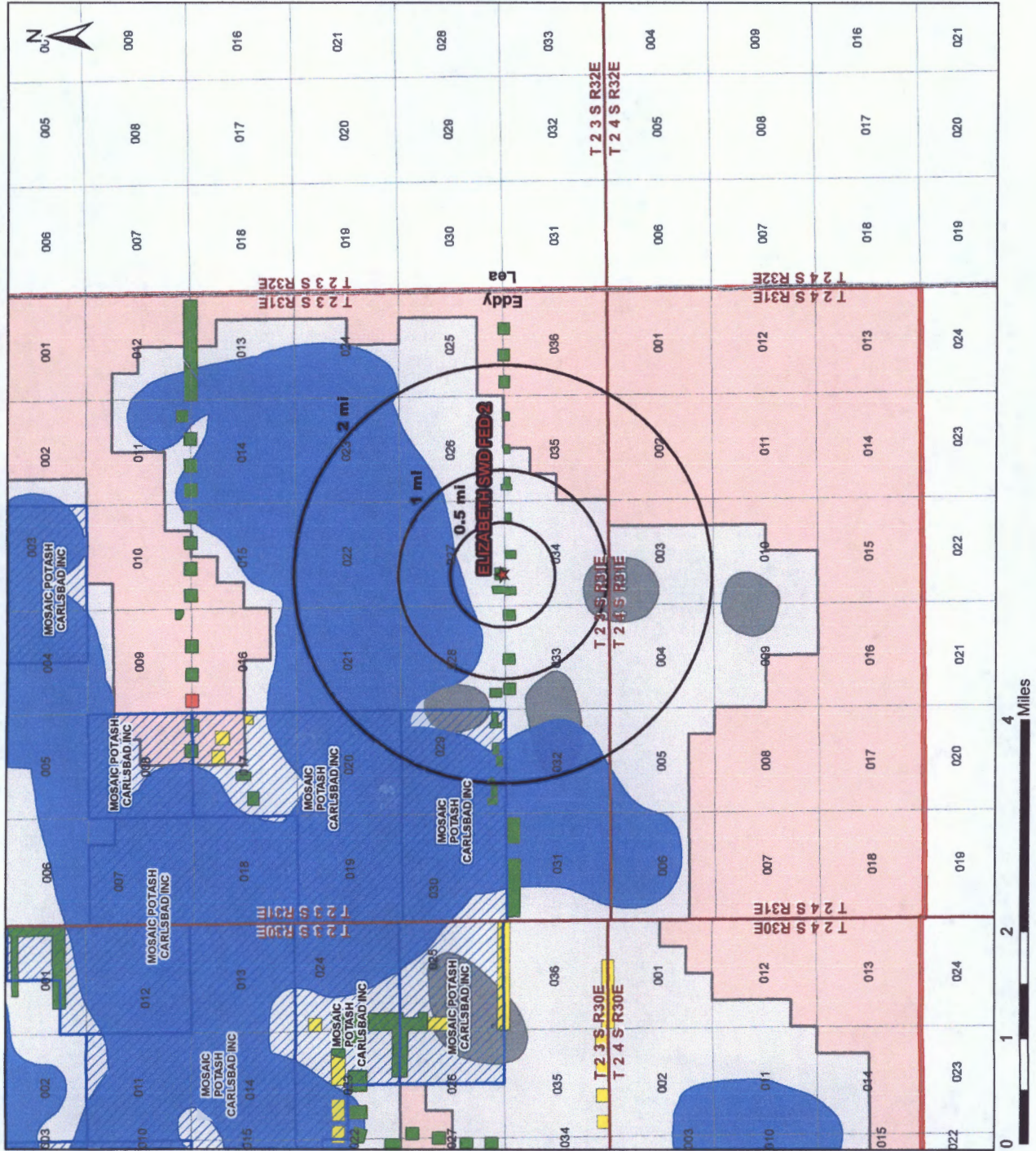
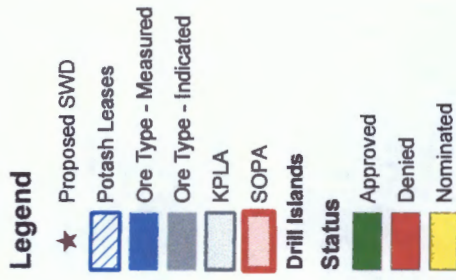
Legend

- ★ Proposed SWD **Devonian/Silurian SWDs**
- △ Salt Water Injection, Active (1)
 - △ Salt Water Injection, New (1)

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AOR Tabulation for Elizabeth SWD FED 2 (Top of Injection Interval: 16,425)								
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?	
ALDABRA 27 FEDERAL #001H	30-015-38625	O	DEVON ENERGY PRODUCTION COMPANY, LP	12/25/2013	M-27-235-31E	8850	No	
TODD 26 L FEDERAL #017	30-015-36897	O	DEVON ENERGY PRODUCTION COMPANY, LP	12/10/2009	L-26-235-31E	8400	No	
TODD 26 M FEDERAL #009	30-015-27075	O	DEVON ENERGY PRODUCTION COMPANY, LP	9/15/1992	M-26-235-31E	8400	No	
TODD 27 B FEDERAL #002	30-015-35504	O	DEVON ENERGY PRODUCTION COMPANY, LP	4/11/2007	B-27-235-31E	8350	No	
TODD 27 C FEDERAL #003	30-015-35516	O	DEVON ENERGY PRODUCTION COMPANY, LP	10/7/2007	C-27-235-31E	8516	No	
TODD 27 D FEDERAL #004	30-015-35425	O	DEVON ENERGY PRODUCTION COMPANY, LP	3/21/2007	D-27-235-31E	8300	No	
TODD 27 E FEDERAL #005	30-015-35517	O	DEVON ENERGY PRODUCTION COMPANY, LP	11/3/2007	E-27-235-31E	8465	No	
TODD 27 F FEDERAL #006	30-015-35518	O	DEVON ENERGY PRODUCTION COMPANY, LP	5/6/2007	F-27-235-31E	8250	No	
TODD 27 G FEDERAL #007	30-015-35519	O	DEVON ENERGY PRODUCTION COMPANY, LP	11/25/2007	G-27-235-31E	8320	No	
TODD 27 H FEDERAL #008	30-015-35520	O	DEVON ENERGY PRODUCTION COMPANY, LP	12/18/2007	H-27-235-31E	8319	No	
TODD 27 I FEDERAL #009	30-015-35521	O	DEVON ENERGY PRODUCTION COMPANY, LP	1/10/2008	I-27-235-31E	8255	No	
TODD 27 J FEDERAL #010	30-015-34430	O	DEVON ENERGY PRODUCTION COMPANY, LP	2/2/2006	J-27-235-31E	8245	No	
TODD 27 K FEDERAL #011	30-015-34431	O	DEVON ENERGY PRODUCTION COMPANY, LP	2/9/2006	K-27-235-31E	8200	No	
TODD 27 L A FEDERAL #012	30-015-27884	O	DEVON ENERGY PRODUCTION COMPANY, LP	8/23/1994	L-27-235-31E	8200	No	
TODD 27 M FEDERAL #013	30-015-27711	O	DEVON ENERGY PRODUCTION COMPANY, LP	11/5/1993	M-27-235-31E	8250	No	
TODD 27 N FEDERAL #014	30-015-34186	O	DEVON ENERGY PRODUCTION COMPANY, LP	8/3/2005	N-27-235-31E	8200	No	
TODD 27 O FEDERAL #015	30-015-34432	O	DEVON ENERGY PRODUCTION COMPANY, LP	1/18/2006	O-27-235-31E	8236	No	
TODD 27 P FEDERAL #016	30-015-27106	S	DEVON ENERGY PRODUCTION COMPANY, LP	11/7/1992	P-27-235-31E	8328	No	
CAL MON #006	30-015-26885	O	OXY USA INC	2/21/1992	D-35-235-31E	8500	No	
CAL MON #008	30-015-27113	O	OXY USA INC	11/7/1992	E-35-235-31E	8500	No	
CAL MON 35 FEDERAL #041H	30-015-43140	O	OXY USA INC	11/29/2016	D-35-235-31E	10390	No	
CAL MON 35 FEDERAL #171H	30-015-44269	O	OXY USA INC	6/22/2017	D-35-235-31E	11705	No	
CAL MON MDP1 35 FEDERAL #001H	30-015-44771	O	OXY USA INC	3/28/2018	D-35-235-31E	10101	No	
CAL MON MDP1 35 FEDERAL #002H	30-015-44772	O	OXY USA INC	3/29/2018	D-35-235-31E	10101	No	
IRIDIUM MDP1 28 21 FEDERAL COM #003H	30-015-45244	O	OXY USA INC	11/24/2018	C-33-235-31E	Proposed (9928)	No	
IRIDIUM MDP1 28 21 FEDERAL COM #004H	30-015-45245	O	OXY USA INC	11/26/2018	C-33-235-31E	Proposed (9934)	No	
IRIDIUM MDP1 28 21 FEDERAL COM #005H	30-015-45246	O	OXY USA INC	Not Drilled	A-33-235-31E	Proposed (9948)	No	
IRIDIUM MDP1 28 21 FEDERAL COM #006H	30-015-45247	O	OXY USA INC	11/2/2018	A-33-235-31E	Proposed (9963)	No	
IRIDIUM MDP1 28 21 FEDERAL COM #173H	30-015-45249	O	OXY USA INC	Not Drilled	C-33-235-31E	Proposed (11507)	No	
IRIDIUM MDP1 28 21 FEDERAL COM #174H	30-015-45332	O	OXY USA INC	Not Drilled	C-33-235-31E	11560	No	
IRIDIUM MDP1 28 21 FEDERAL COM #175H	30-015-45333	O	OXY USA INC	Not Drilled	A-33-235-31E	Proposed (11590)	No	
IRIDIUM MDP1 28 21 FEDERAL COM #176H	30-015-45334	O	OXY USA INC	Not Drilled	A-33-235-31E	Proposed (11604)	No	
PLATINUM MDP1 34 3 FEDERAL COM #001H	30-015-45226	O	OXY USA INC	10/8/2018	D-34-235-31E	Proposed (10068)	No	
PLATINUM MDP1 34 3 FEDERAL COM #002H	30-015-45227	O	OXY USA INC	10/9/2018	D-34-235-31E	Proposed (10068)	No	
PLATINUM MDP1 34 3 FEDERAL COM #003H	30-015-45228	O	OXY USA INC	10/5/2018	C-34-235-31E	Proposed (10090)	No	
PLATINUM MDP1 34 3 FEDERAL COM #004H	30-015-45229	O	OXY USA INC	9/13/2018	C-34-235-31E	10270	No	
PLATINUM MDP1 34 3 FEDERAL COM #005H	30-015-45171	O	OXY USA INC	9/10/2018	A-34-235-31E	10270	No	
PLATINUM MDP1 34 3 FEDERAL COM #006H	30-015-45172	O	OXY USA INC	9/16/2018	A-34-235-31E	10011	No	
PLATINUM MDP1 34 3 FEDERAL COM #171H	30-015-45230	G	OXY USA INC	Not Drilled	D-34-235-31E	Proposed (11628)	No	
PLATINUM MDP1 34 3 FEDERAL COM #172H	30-015-45231	G	OXY USA INC	Not Drilled	D-34-235-31E	Proposed (11626)	No	
PLATINUM MDP1 34 3 FEDERAL COM #173H	30-015-45250	G	OXY USA INC	11/9/2018	C-34-235-31E	Proposed (11632)	No	
PLATINUM MDP1 34 3 FEDERAL COM #174H	30-015-45232	G	OXY USA INC	Not Drilled	C-34-235-31E	Proposed (11639)	No	
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PLATINUM MDP1 34 3 FEDERAL COM #176H	30-015-45233	G	OXY USA INC	Not Drilled	A-34-235-31E	Proposed (11681)	No	
PURE GOLD D #018	30-015-27999	O	OXY USA INC	8/24/1994	I-28-235-31E	8180	No	
Pure Gold D Fed #010	30-015-35799	O	OXY USA INC	7/29/2009	G-28-235-31E	8109	No	
Pure Gold D Fed #013	30-015-35800	O	OXY USA INC	9/2/2009	A-28-235-31E	8120	No	
Pure Gold D Fed #014	30-015-35801	O	OXY USA INC	7/1/2009	H-28-235-31E	8300	No	
PURE GOLD D FEDERAL #008	30-015-27219	O	OXY USA INC	2/10/1993	N-28-235-31E	8130	No	
PURE GOLD D FEDERAL #011	30-015-27609	O	OXY USA INC	3/16/1994	J-28-235-31E	8120	No	
PURE GOLD D FEDERAL #012	30-015-27347	O	OXY USA INC	3/22/1993	O-28-235-31E	8134	No	
PURE GOLD D FEDERAL #016	30-015-27497	O	OXY USA INC	7/2/1993	P-28-235-31E	8162	No	
SAND DUNES 28 FEDERAL #001	30-015-26194	S	OXY USA INC	10/17/1989	J-28-235-31E	15057	No	
SAND DUNES 34 FEDERAL #001	30-015-27255	O	OXY USA INC	12/29/1992	A-34-235-31E	8338	No	
SAND DUNES 34 FEDERAL #002	30-015-27239	O	OXY USA INC	12/10/1992	H-34-235-31E	8370	No	
SAND DUNES 34 FEDERAL #004	30-015-27268	O	OXY USA INC	10/21/1993	I-34-235-31E	8380	No	
SAND DUNES 34 FEDERAL #005	30-015-27498	O	OXY USA INC	11/26/1993	B-34-235-31E	8340	No	
SAND DUNES 34 FEDERAL #006	30-015-27499	O	OXY USA INC	9/25/1994	G-34-235-31E	8290	No	
SAND DUNES 34 FEDERAL #007	30-015-27500	O	OXY USA INC	11/17/1994	J-34-235-31E	8340	No	
STERLING SILVER 33 FEDERAL #002	30-015-25696	G	OXY USA INC	12/22/1986	G-33-235-31E	15100	No	
STERLING SILVER 33 FEDERAL #005	30-015-27424	O	OXY USA INC	6/1/1993	C-33-235-31E	8134	No	
STERLING SILVER 33 FEDERAL #006	30-015-27812	O	OXY USA INC	9/1/1994	F-33-235-31E	8170	No	
STERLING SILVER 33 FEDERAL #011	30-015-27611	O	OXY USA INC	8/29/1993	B-33-235-31E	8115	No	
STERLING SILVER 33 FEDERAL #012	30-015-34943	O	OXY USA INC	7/9/2006	J-33-235-31E	8180	No	
STERLING SILVER 33 FEDERAL #014	30-015-27552	O	OXY USA INC	9/18/1993	A-33-235-31E	8176	No	
STERLING SILVER 33 FEDERAL #015	30-015-29275	O	OXY USA INC	12/10/1996	H-33-235-31E	8200	No	
STERLING SILVER 33 FEDERAL #016	30-015-31091	O	OXY USA INC	5/24/2000	I-33-235-31E	8200	No	
STERLING SILVER 34 FEDERAL #001	30-015-25773	G	OXY USA INC	8/12/1987	E-34-235-31E	15250	No	
STERLING SILVER 34 FEDERAL #002	30-015-27936	O	OXY USA INC	7/24/1994	F-34-235-31E	8225	No	
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STERLING SILVER 34 FEDERAL #004	30-015-31092	O	OXY USA INC	3/8/2001	F-34-235-31E	8300	No	
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STERLING SILVER MDP1 33 4 FEDERAL COM #005H	30-015-45393	O	OXY USA INC	11/3/2018	A-33-235-31E	Proposed (10000)	No	
STERLING SILVER MDP1 33 4 FEDERAL COM #173H	30-015-45387	G	OXY USA INC	Not Drilled	C-33-235-31E	11582	No	
STERLING SILVER MDP1 33 4 FEDERAL COM #174H	30-015-45386	G	OXY USA INC	11/13/2018	C-33-235-31E	Proposed (11583)	No	
STERLING SILVER MDP1 33 4 FEDERAL COM #175H	30-015-45388	G	OXY USA INC	Not Drilled	A-33-235-31E	Proposed (11607)	No	
STERLING SILVER MDP1 33 4 FEDERAL COM #176H	30-015-45389	G	OXY USA INC	11/4/2018	A-33-235-31E	Proposed (11614)	No	
TRIPLE S 33 FEDERAL #001	30-015-25769	O	OXY USA INC	7/19/1987	G-33-235-31E	9655	No	
PRE-ONGARD WELL #001 (Patoil Corp.)	30-015-05843	Plugged	PRE-ONGARD WELL OPERATOR	Unknown*	L-27-235-31E	Plugged (4386)	No	
PRE-ONGARD WELL #001 (Marland Oil Co.)	30-015-05847	Plugged	PRE-ONGARD WELL OPERATOR	Unknown*	K-34-235-31E	Plugged (Unknown*)	No	
PRE-ONGARD WELL #003 (Patoil Corp.)	30-015-05846	Plugged	PRE-ONGARD WELL OPERATOR	Unknown*	B-33-235-31E	Plugged (4358)	No	

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



Potash Leases Area of Review

ELIZABETH SWD FED 2 Eddy County, New Mexico

Proj Mgr: Dan Arthur

March 15, 2019

Mapped by:
Ben Bockelmann

Prepared by:

ALICONSULTING

Attachment 3
Source Water Analyses

Wolfcamp



Water Analysis

Date: 23-Aug-11

2768 West County Road, Hobbs NM 88240

Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For

Brushy Draw 1#1

Company	Well Name	County	State
	BD	Lea	New Mexico

Sample Source

Swab Sample

Sample #

1

Formation

Depth

Specific Gravity	1.170	SG @ 60 °F	1.172
pH	6.30	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	77,962	in PPM	66,520
Calcium	in Mg/L	4,000	in PPM	3,413
Magnesium	in Mg/L	1,200	in PPM	1,024
Soluble Iron (FE2)	in Mg/L	10.0	in PPM	9

Anions

Chlorides	in Mg/L	130,000	in PPM	110,822
Sulfates	in Mg/L	250	in PPM	213
Bicarbonates	in Mg/L	127	in PPM	108

Total Hardness (as CaCO3)	in Mg/L	15,000	in PPM	12,799
Total Dissolved Solids (Calc)	in Mg/L	213,549	in PPM	182,209
Equivalent NaCl Concentration	in Mg/L	182,668	in PPM	158,031

Scaling Tendencies

*Calcium Carbonate Index 507,820

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 1,000,000

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks RW=.048@70F

Report # 3188

Sec 22, T25S, R28E

North Permian Basin Region

P.O. Box 740

Sundown, TX 79372-0740

(806) 228-8121

Lab Team Leader - Sheila Hernandez

(432) 495-7240

Bone Spring

Water Analysis Report by Baker Petrolite

Company:		Sales RDT:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	534665
Lease/Platform:	PINOCHLE 'BPN' STATE COM	Analysis ID #:	106795
Entity (or well #):	2 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 534665 @ 75 °F					
Sampling Date:	03/10/11	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	03/18/11	Chloride:	108618.0	3091.92	Sodium:	79275.7	3058.82
Analyst:	SANDRA GOMEZ	Bicarbonate:	2135.0	34.99	Magnesium:	195.0	18.04
TDS (mg/l or g/m3):	184911.1	Carbonate:	0.0	0.	Calcium:	844.0	42.12
Density (g/cm3, tonne/m3):	1.113	Sulfate:	747.0	15.55	Strontium:	220.0	5.02
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.8	0.01
		Borate:			Iron:	0.5	0.23
		Silicate:			Potassium:	889.0	22.22
Carbon Dioxide:	0.50 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		7	Lead:		
					Manganese:	0.100	0.
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Pressure
°F	psf	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psf
80	0	1.08	188.52	-1.20	0.00	-1.18	0.00	-0.11	0.00	0.58	0.29	1.72
100	0	1.10	208.05	-1.29	0.00	-1.20	0.00	-0.15	0.00	0.35	0.29	2.38
120	0	1.12	224.17	-1.38	0.00	-1.19	0.00	-0.17	0.00	0.16	0.00	3.17
140	0	1.13	243.17	-1.42	0.00	-1.18	0.00	-0.18	0.00	0.00	0.00	4.21

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Attachment 4
Injection Formation Water Analyses

wellname
 JURNEGAN POINT #001
 WHITE CITY PENN GAS COM UNIT 1.R001

api section township range county state formation
 3001510280 5 24S 25E EDDY NMI DEVONIAN
 3001504008 29 24S 26E EDDY NMI DEVONIAN

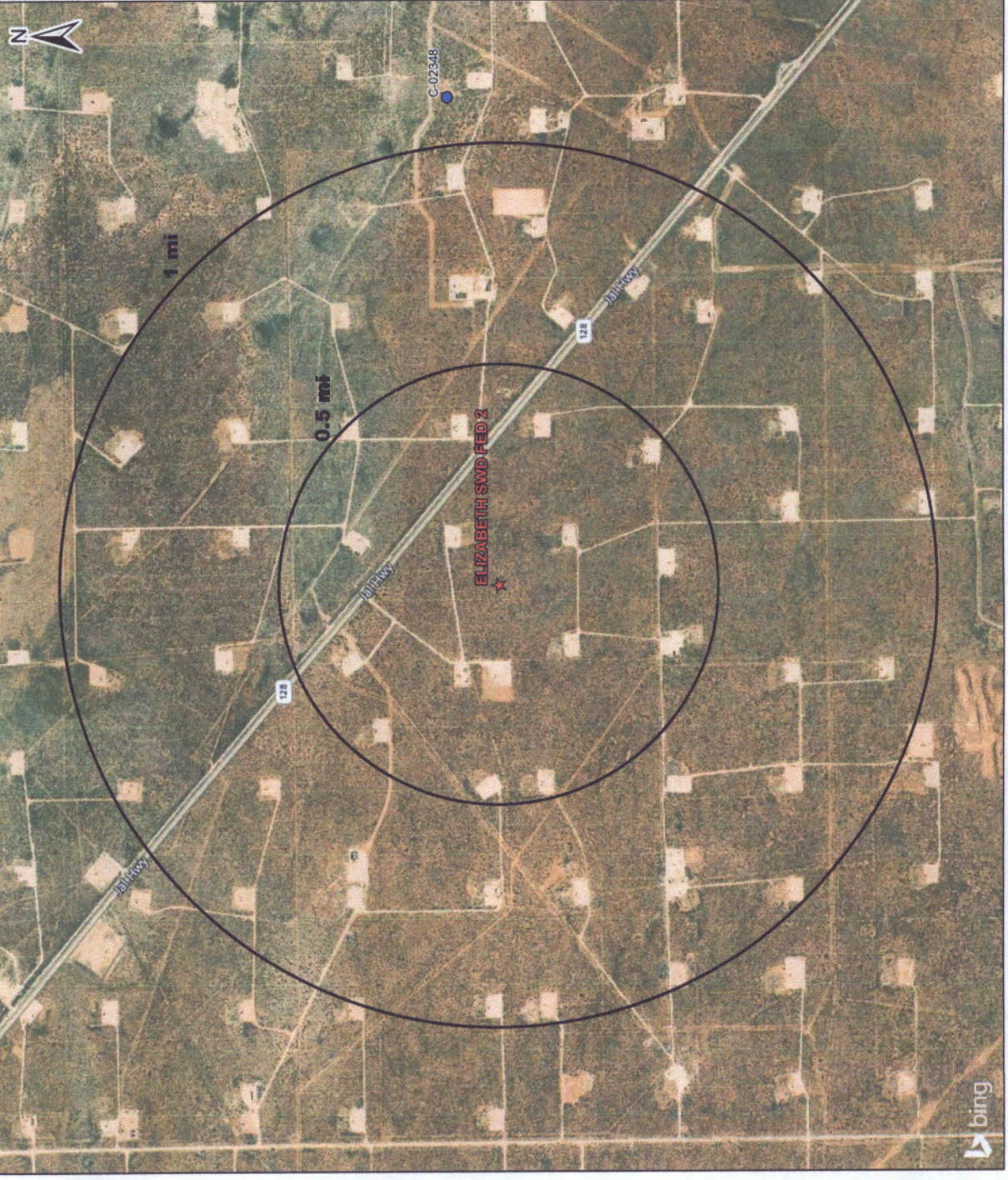
completion
 12/4/1964 OOD 7
 9/1/1960 OOD 7

ph specificgravity specificgravity temp_f tide_inch resistivity_rho_m_cm resistivity_rho_m_cm velocity_rho_m_cm
 7 1.012 60 203.100 0.36 75 25596 64 8672 1002 132 121.100 175 2220

conductivity conductivity temp_f sodium_mg calcium_mg magnesium_mg chloride_mg bicarbonate_mg sulfate_mg
 25596 64 8672 1002 132 121.100 175 2220

Source: Geo-Tech (<http://geotech.wvu.edu/geotech/Waters/productionwater.aspx>)

Attachment 5
Water Well Map and Well Data



- Legend**
- ★ Proposed SWD
 - NMOSE PODs**
 - Status**
 - Active (1)

Water Wells Area of Review		
ELIZABETH SWD FED 2 Eddy County, New Mexico		
Proj Mgr: Dan Arthur	March 01, 2019	Mapped by: Ben Bockelmann
Prepared by: ALCON CONSULTING		

Service Layer Credits: © 2018 Microsoft Corporation © 2018 DigitalGlobe © CNES (2018) Distribution Airbus DS © 2018 HERE

Water Well Sampling Rationale						
Elizabeth SWD FED 2						
Water Wells	SWD	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

March 7, 2019

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 Elizabeth SWD FED 2

Dear Mr. Goetze,

This letter provides information regarding the seismic potential associated with injection operations associated with Blackbuck Resources LLC's (Blackbuck), Elizabeth SWD FED 2, 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 175' FSL & 1,397' FWL of Section 27, in T23-S and R31-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 two known seismic events located within a 25-mile radius of the proposed subject well. The closest recorded seismic event was a M3.1 that occurred on March 18, 2012, and was located approximately 7.2 miles west 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 1.5 miles to the southeast (See Exhibit 1).

Blackbuck does not own either 2D or 3D seismic reflection data in the area of the Subject Well. Fault data from USGS indicates that the closest known fault is approximately 14.8 miles southwest 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).

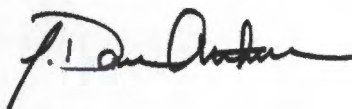
Geologic analysis indicates that the proposed Devonian-Silurian injection zone is overlain by approximately 200 to 400 feet of Woodford Shale, which is the upper confining zone and will serve as a barrier for upward injection fluid migration. Additionally, the Simpson Group that lies directly below the Montoya Formation will act as a lower confining zone to prohibit fluids from migrating downward into the underlying Ellenburger 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 1,000 to 1,200 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 June 18, 2018).

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 June 14, 2018).

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 June 19, 2018).

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 June 14, 2018).

Exhibits

Induced Seismicity Potential Statement for the Elizabeth SWD FED 2
March 7, 2019

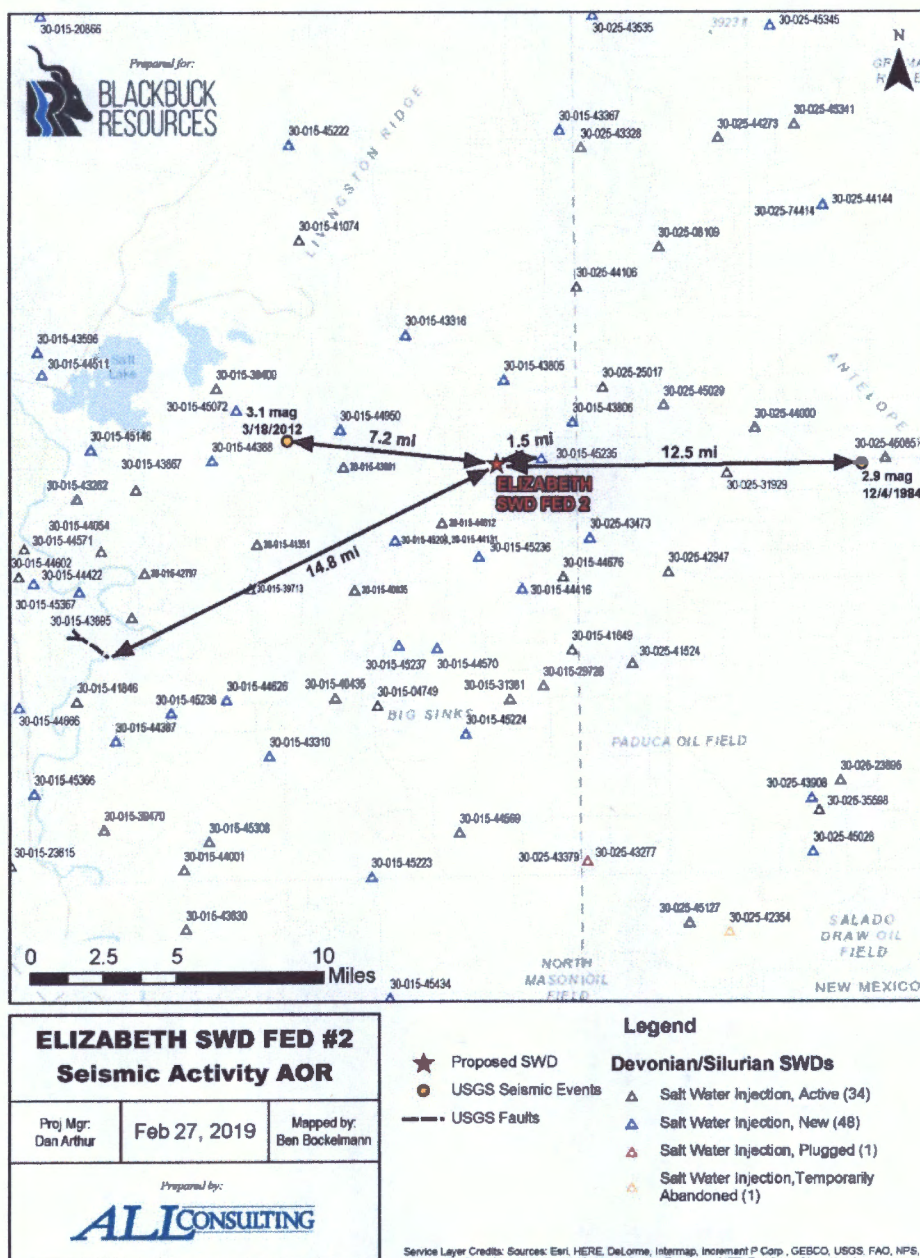


Exhibit 1. Map Showing the Distances from Known and Inferred Faults, Seismic Event, and Closest Deep Injection Well

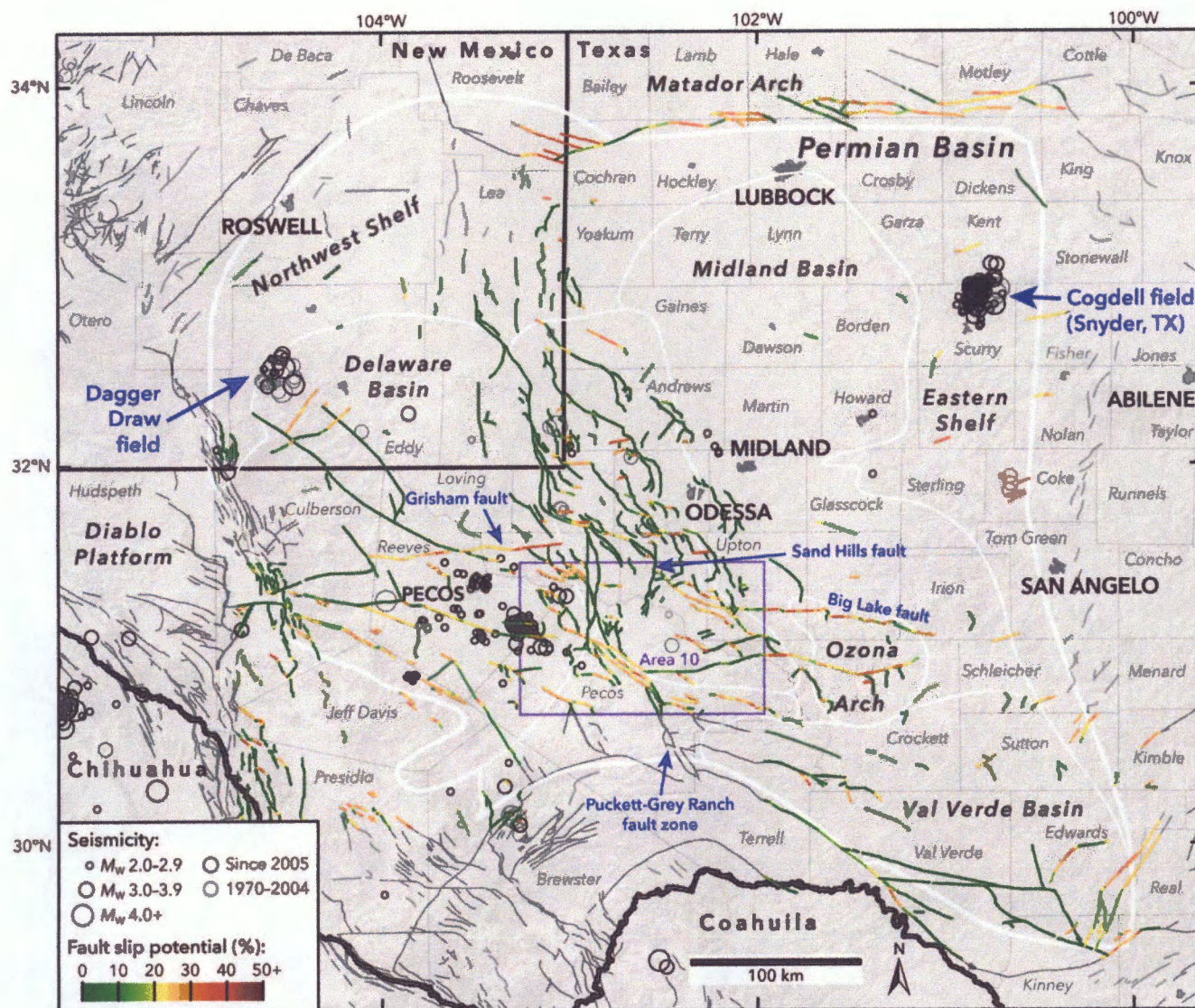


Exhibit 2. Results of the Snee and Zoback (2018) Probabilistic FSP Analysis Across the Permian Basin

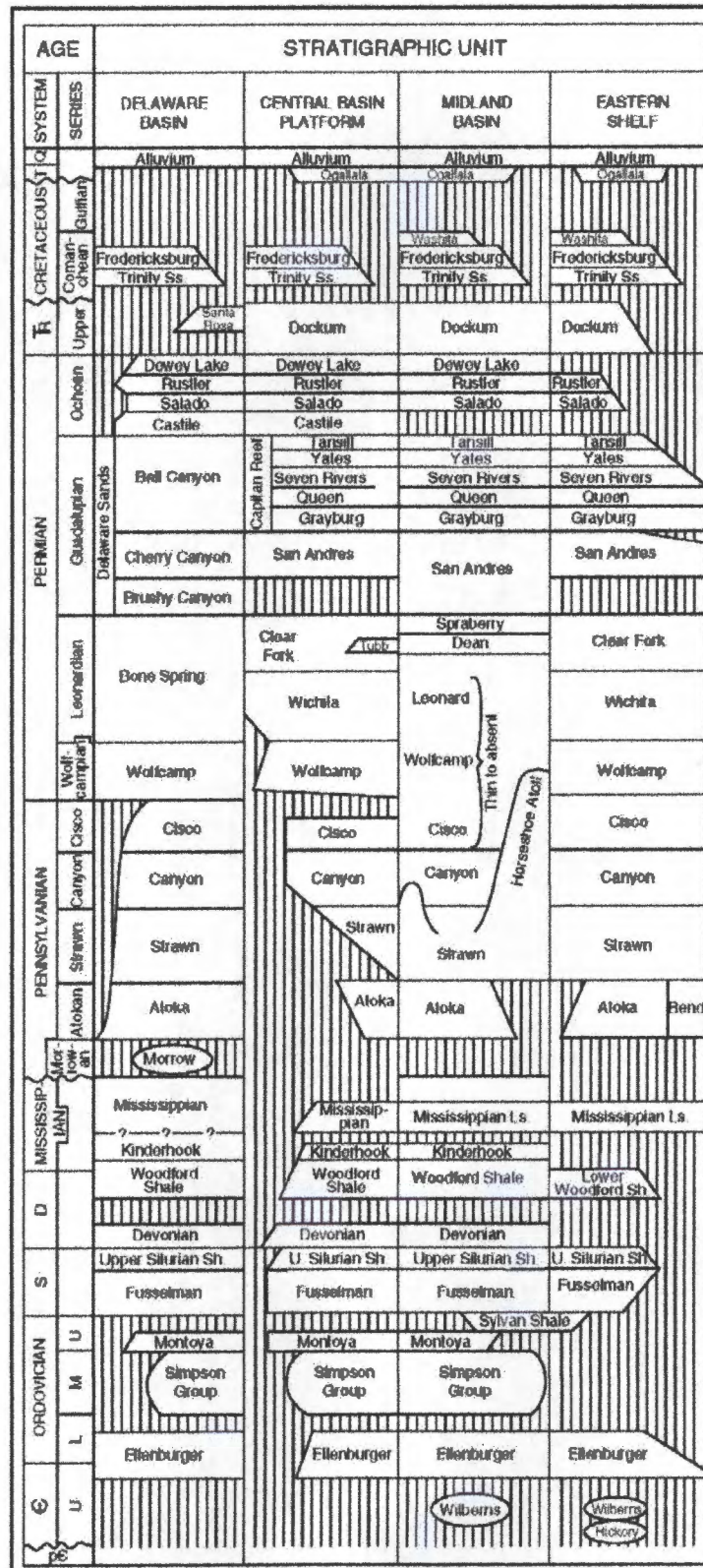


Exhibit 3. Delaware Basin Stratigraphic Chart (Ball 1995)

Attachment 7

Public Notice Affidavit and Notice of Application Confirmations

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

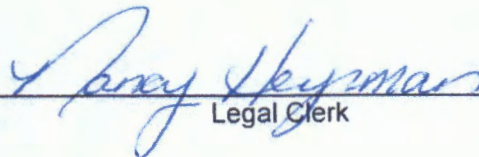
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0001278798

ALL CONSULTING- CARLSBAD
1718 SOUTH CHEYENNE AVENUE

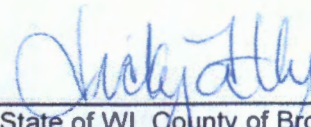
TULSA OK 74119

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 on the date as follows, to wit:

03/01/19


Legal Clerk

Subscribed and sworn before me this
1st of March 2019.


State of WI, County of Brown
NOTARY PUBLIC

9-19-21
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: Elizabeth SWD
FED 2
SE ¼ SW ¼, Section 27, Township 23S, Range 31E
175' FSL & 1,397' FWL
Eddy County, NM

NAME AND DEPTH OF DISPOSAL ZONE:
Devonian-Silurian (16,425' - 17,695')
EXPECTED MAXIMUM INJECTION RATE:
30,000 Bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE:
3,285 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 Samuel Oliver (Blackbuck - Chief Commercial Officer) at 855-432-1400.
March 1, 2019



Elizabeth SWD FED 2 Notice of Application Recipients				
Entity	Address	City	State	Zip Code
Landowner				
New Mexico BLM	620 E. Greene St.	Carlsbad	NM	88220
OCD District				
NMOCD District 2	811 S. First St.	Artesia	NM	88210
Leasehold Operators				
Devon Energy Production Co.	333 W. Sheridan Ave.	Oklahoma City	OK	73102
EOG Resources, Inc.	104 S. 4th Street	Artesia	NM	88210
Marathon Oil Co.	P.O. Box 2069	Houston	TX	77252-2069
OXY USA Inc.	P.O. Box 4294	Houston	TX	77210
Note:				

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Devon Energy Production Company
333 W. Sheridan Ave.
Oklahoma City OK 73102-5010

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EOG Resources, Inc.
104 S. 4th Street
Artesia NM 88210-2123

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Marathon Oil Company
P.O. Box 2069
Houston TX 77252-2069

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New Mexico BLM
620 E. Greene St.
Carlsbad NM 88220-6292

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NMOCD District 2
811 S. First St.
Artesia NM 88210-2834

OXY USA Inc.
P.O. Box 4294
Houston TX 77210-4294

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March 15, 2019

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

Subject: Blackbuck Resources LLC – Elizabeth SWD FED 2
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Blackbuck Resources LLC (Blackbuck), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Elizabeth SWD FED 2, 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

Nate Alleman
Sr. Regulatory Specialist

McMillan, Michael, EMNRD

From: Michael Feldewert <MFeldewert@hollandhart.com>
Sent: Thursday, June 20, 2019 3:50 PM
To: McMillan, Michael, EMNRD
Cc: Adam Rankin; Katie Dean (katie.dean@dvn.com); nalleman@all-llc.com
Subject: [EXT] Withdrawal of Protest for Application to Inject - Blackbuck Elizabeth Federal SWD Well No. 2

Michael: Devon Energy and Blackbuck have reached an agreement resolving Devon's protest of this proposed SWD well. Thank you for your attention to this matter.

Michael H. Feldewert
Partner, Holland & Hart LLP
110 N Guadalupe St, Suite A, Santa Fe, NM 87501
T 505.988.4421

HOLLAND & HART 



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*Deleaved
3-25-2019*

From: McMillan, Michael, EMNRD
Sent: Tuesday, March 26, 2019 10:33 AM
To: 'nalleman@all-llc.com' <nalleman@all-llc.com>
Cc: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>; Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>; 'Rutley, James' <jrutley@blm.gov>
Subject: Notification of Protest for Application to Inject - Elizabeth Federal SWD Well No. 2-Devon

RE: Elizabeth Federal SWD #2 (API 30-025-Pending; Admin. Appl. No pMAM1908536708) Unit N; Sec 27, T23S, R31E, NMPM, Eddy County

Mr. Alleman:

OCD was notified by Devon Energy Production that they it is protesting this application. These parties are identified as an affected person for the location being considered for the application. You are being notified that if BlackBuck Resources LLC wishes for this application to be considered, they must either go to hearing or may be reviewed administratively if the protest is withdrawn as a result of a negotiated resolution with this party. The application will be retained pending resolution of the protest. Please continue to provide OCD with information regarding the standing of this application. Please me call with any questions on this matter.

Contact for Devon Energy Production Company LP

Michael Feldewert
Lawyer
Holland and Hart
110 N Guadalupe
Santa Fe, NM 87501
Phone: 505.988.4421