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	11/29/2018
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 Resources LLC

ADDRESS: 2601 Westheimer Rd., Suite C210, Houston, TX 77098

CONTACT PARTY: Samuel Oliver PHONE: 1-855-432-1400

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).

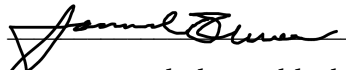
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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: Samuel Oliver TITLE: Chief Commercial Officer

SIGNATURE:  DATE: 29 November 2018

E-MAIL ADDRESS: samuel.oliver@blackbuckresources.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

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: Yesely SWD Fed 1

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: Yesely SWD Fed 1
Location Footage Calls: Unit Letter E, 2,320' FNL & 1,116' FWL
Legal Location: S1 T24S R31E
Ground Elevation: 3,535'
Proposed Injection Interval: 16,650' – 18,000'
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	945'	1,060	Surface	Circulation
Intermediate 1	14-3/4"	13-3/8"	68.0 lb/ft	4,570'	1,830	Surface	Circulation
Intermediate 2	12-1/4"	9-5/8"	53.5 lb/ft	13,615'	5,165	Surface	Circulation
Liner	8-1/2"	7-5/8"	39 lb/ft	16,650'	265	13,415'(TOL)	CBL

(3) Tubing Information:

4-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 16,630'

(4) Packer Information: Lok-set or equivalent packer set at 16,630'

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 16,650' – 18,000'
(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 (4,570')
- Bone Springs (8,420')
- Wolfcamp (11,745')
- Atoka (13,750')
- Morrow (14,525')

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) - no Deep SWDs within 1.5 miles

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: 3,330 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 16,650 – 18,000 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 920 feet. Water well depths in the area range from approximately 275 – 320 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

Attachment 3: Source Water Analyses

Attachment 4: Injection Formation Water Analyses

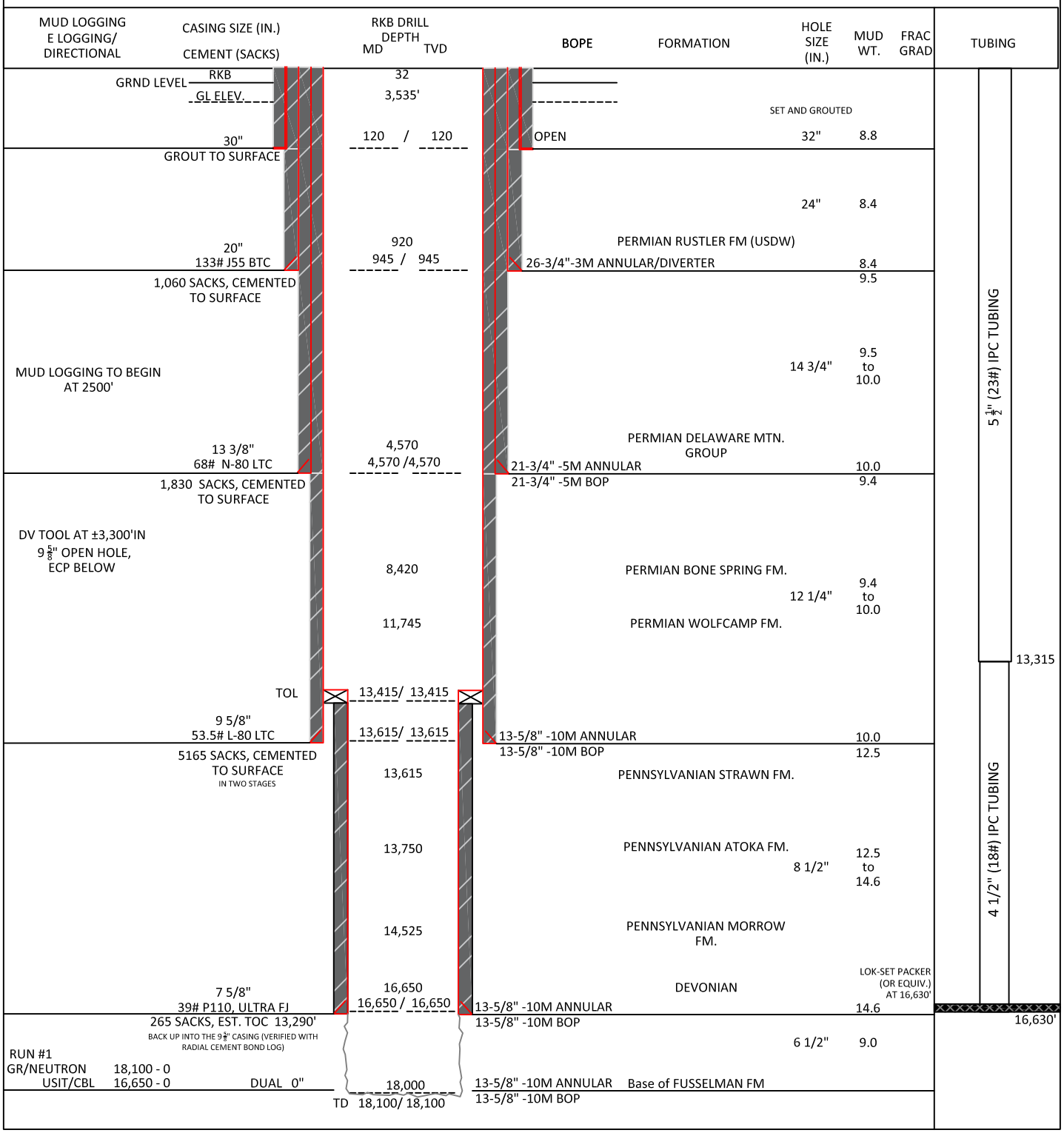
Attachment 5: Water Well Map and Well Data

Attachment 6: Induced Seismicity Assessment Letter

Attachment 7: Public Notice Affidavit and Notice of Application Confirmations

Attachment 1

Wellbore Diagram



YESELY SWD FED 1

SECTION 1, T-24-S, R-31E
2320' FNL & 1,116' FWL
EDDY COUNTY, NEW MEXICO

PN # 1680.NM.00 | NOVEMBER 2018

BLACKBUCK RESOURCES

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

SIZE A | SCALE NTS

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.

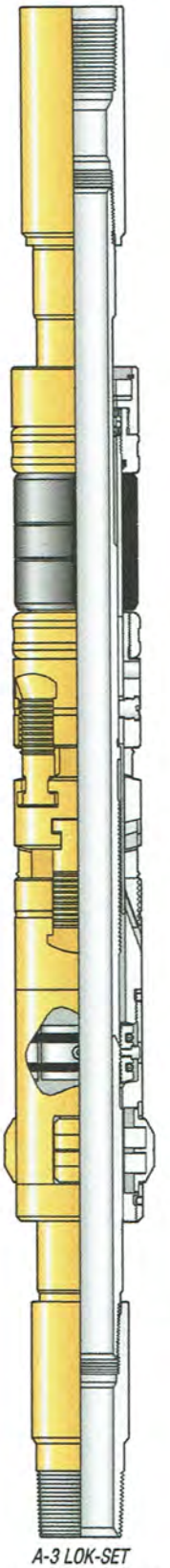
Advantages

- 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 •	Size	Nom ID		Max Gage Ring OD	
in.	mm	lb/ft		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 •	Size	Nom ID		Max Gage Ring OD		Max Diameter of Compressed Drag Block	
in.	mm	lb/ft		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

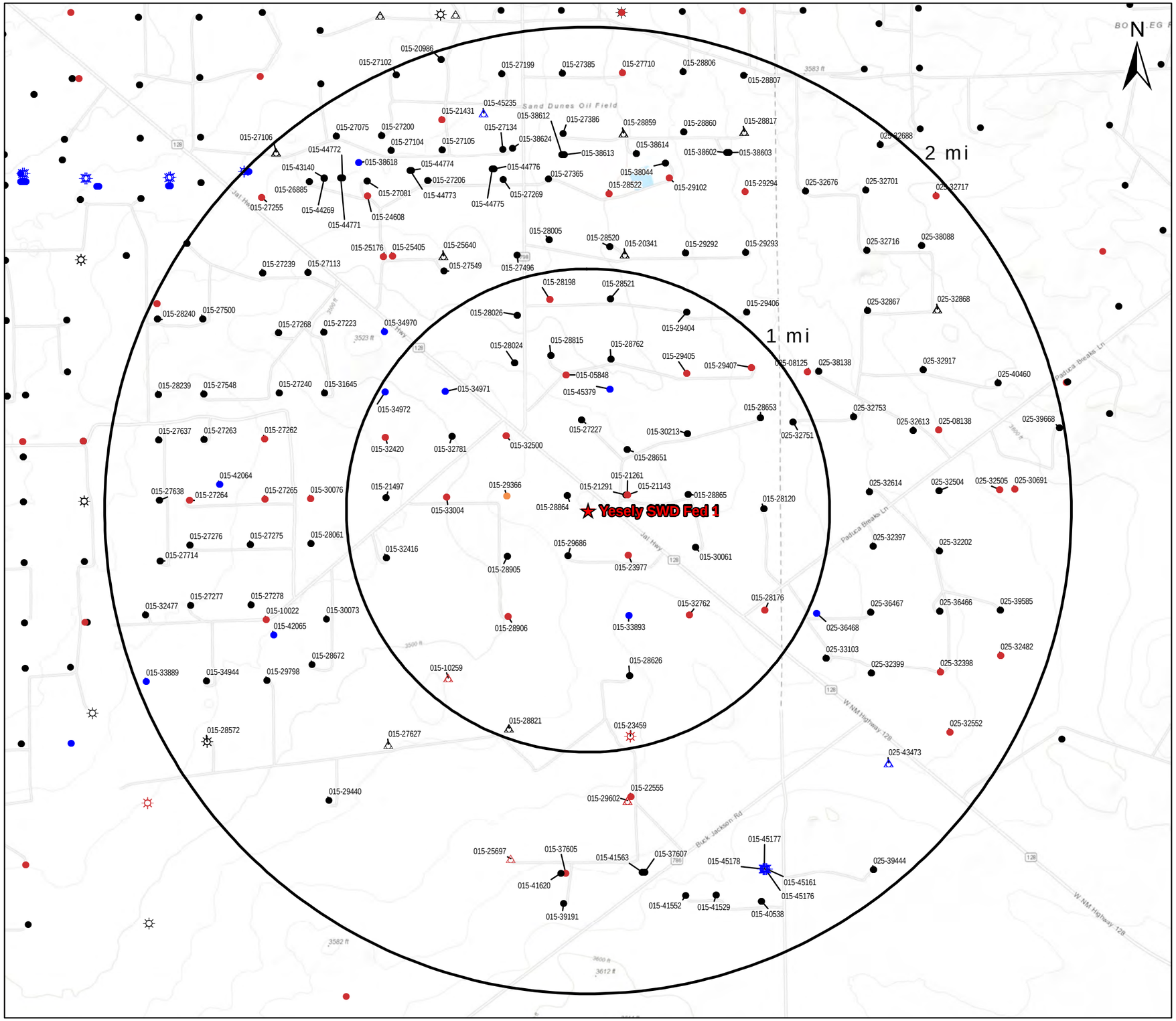
• *When selecting a packer for a casing weight common to two weight ranges (same OD), choose the packer size shown for the lighter of the two weight ranges. Example: for 7-in. (177.8 mm) OD 26 lb/ft casing use packer size 47B4. Under certain circumstances the other packer size may be run, such as when 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



Prepared for: BLACKBUCK RESOURCES

Legend

- Proposed SWD
- Gas, Active (12)
- Gas, New (33)
- Gas, Plugged (5)
- Oil, Active (446)
- Oil, New (63)
- Oil, Plugged (139)
- Oil, Temporarily Abondoned (4)
- Salt Water Injection, Active (22)
- Salt Water Injection, New (5)
- Salt Water Injection, Plugged (6)

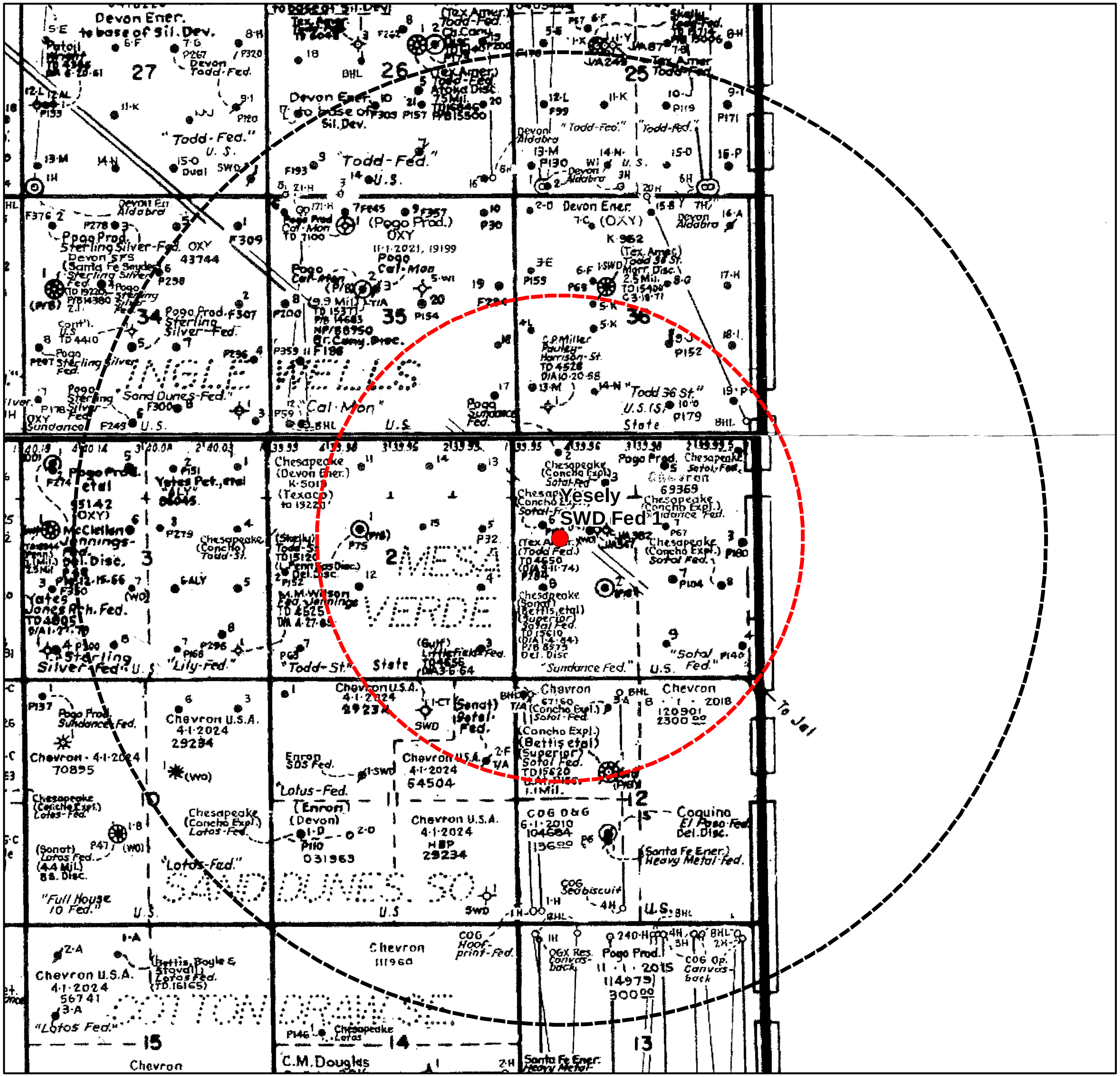
O&G Wells Area of Review

Yesely SWD Fed 1

Eddy County, New Mexico

Proj Mgr: Dan Arthur	November 28, 2018	Mapped by: Ben Bockelmann

Prepared by: ALL CONSULTING



N

Prepared for:

BLACKBUCK RESOURCES

Legend

- Proposed SWD
- 1 - mile Radius
- 2 - mile Radius

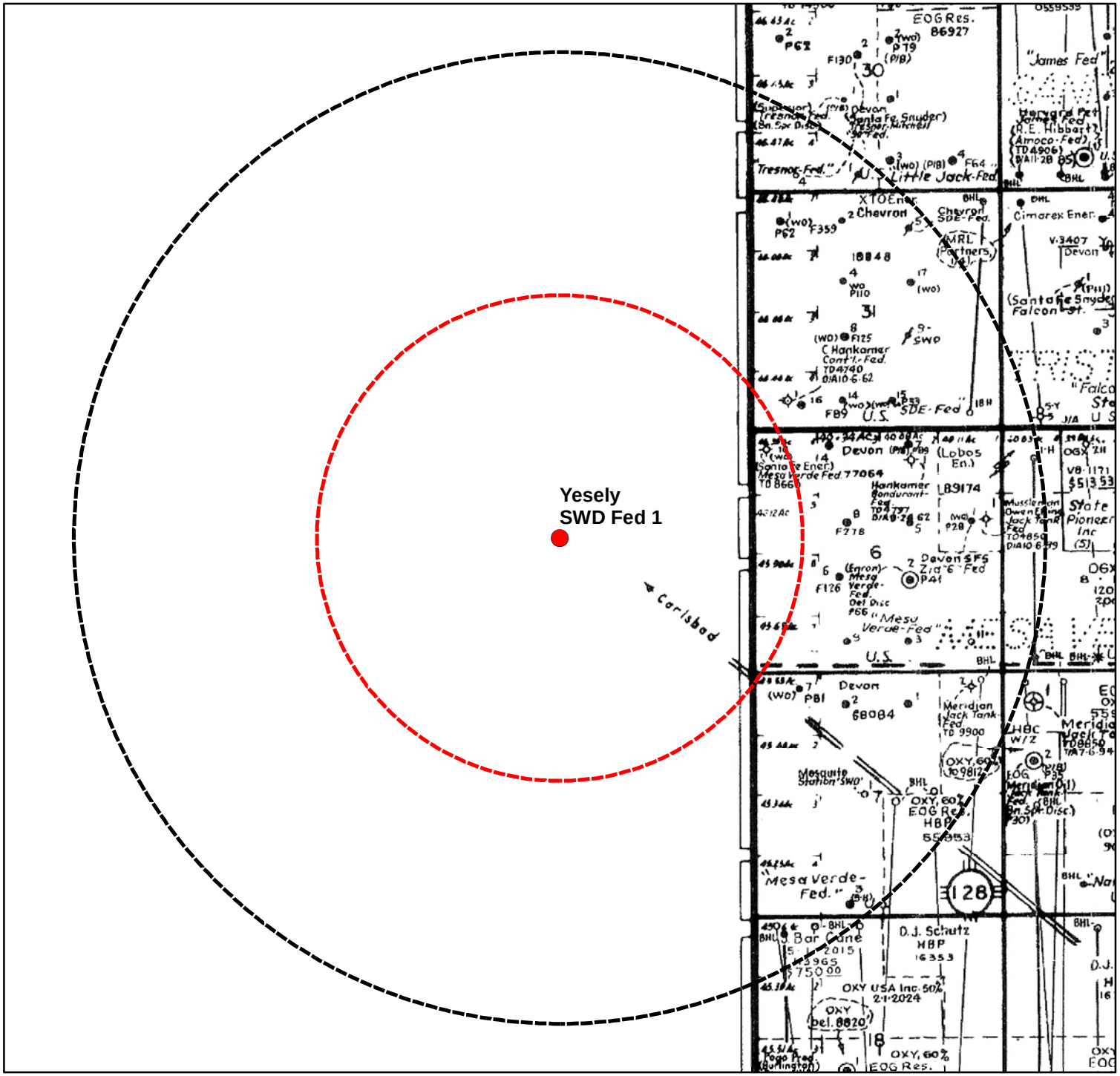
Yesely SWD Fed 1
Offset Leases
Eddy County, NM

Proj Mgr: JDA	October 29, 2018	Mapped by: BJB

Prepared by:

ALL CONSULTING

Map 1 of 2 (West)



Prepared for:

BLACKBUCK RESOURCES

N

Legend

- Proposed SWD
- 1 - mile Radius
- 2 - mile Radius

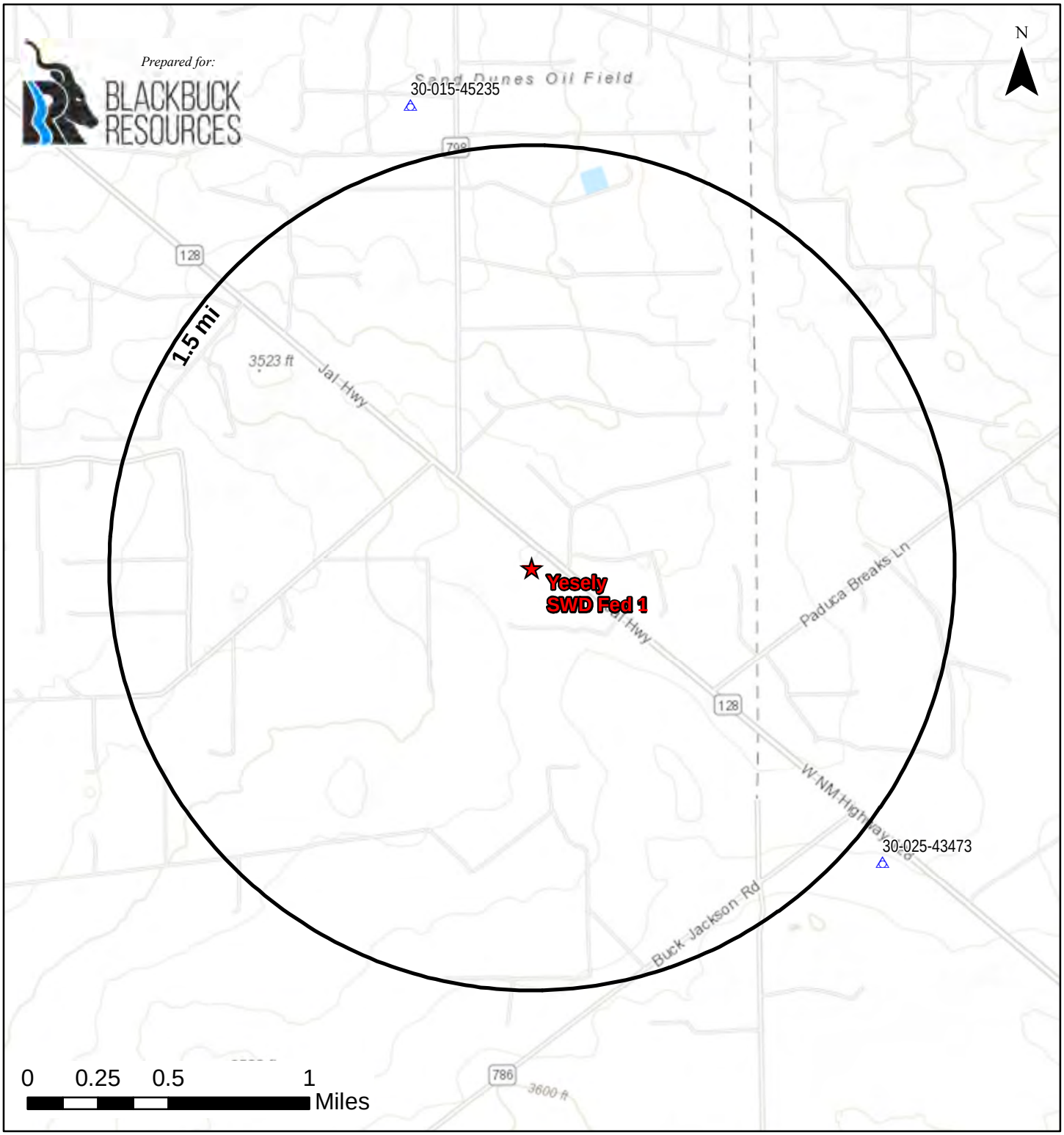
Yesely SWD Fed 1
Offset Leases
Eddy County, NM

Proj Mgr: JDA	October 29, 2018	Mapped by: BJB

Prepared by:

ALL CONSULTING

Map 2 of 2 (East)



Yesely SWD Fed 1 Devonian/Silurian SWDs AOR		
Proj Mgr: Dan Arthur	Nov 15, 2018	Mapped by: Ben Bockelmann

Prepared by:
ALL CONSULTING

Legend

Proposed SWD
Distances
Devonian/Silurian SWDs
Salt Water Injection, New (2)

AOR Tabulation for Yesely SWD Fed 1 (Top of Injection Interval: 16,651')							
Well Name	**API#**	**Well Type**	**Operator**	**Spud Date**	**Location (Sec., Tn., Rng.)**	**Total Vertical Depth (feet)**	**Penetrate Inj. Zone?**
CAL MON #014	30-015-34972	O	OXY USA INC	Not Drilled	N-35-23S-31E	Proposed TMD (8,500)	No
CAL MON #015	30-015-34971	O	OXY USA INC	Not Drilled	O-35-23S-31E	Proposed TMD (8,700)	No
CAL MON #017	30-015-28024	O	OXY USA INC	1/2/1997	P-35-23S-31E	8440	No
CAL MON #018	30-015-28026	O	OXY USA INC	9/30/1994	I-35-23S-31E	8402	No
LITTLEFIELD FEDERAL SWD #001	30-015-10259	S	CHESAPEAKE OPERATING, INC.	2/26/1964	B-11-24S-31E	Plugged (6500)	No
LOTOS 11 FEDERAL #002	30-015-28821	S	CHEVRON U S A INC	3/24/1996	H-11-24S-31E	8621	No
MESA VERDE 6 FEDERAL #010H	30-025-32751	O	DEVON ENERGY PRODUCTION COMPANY, LP	12/18/1997	4-06-24S-32E	9058	No
PRE-ONGARD WELL #001	30-015-21143	O	PRE-ONGARD WELL OPERATOR	5/1/1974	F-01-24S-31E	Plugged (15500)	No
PRE-ONGARD WELL #001	30-015-21261	O	PRE-ONGARD WELL OPERATOR	4/28/1974	F-01-24S-31E	Plugged (382)	No
PRE-ONGARD WELL #001	30-015-05848	O	PRE-ONGARD WELL OPERATOR	9/7/1958	M-36-23S-31E	Plugged (4500)	No
SOTOL A FEDERAL #001	30-015-23459	G	CONCHO EXPLORATION	2/9/1987	F-12-24S-31E	Plugged (15618)	No
SOTOL A FEDERAL #003	30-015-28626	O	CHEVRON U S A INC	10/24/1995	C-12-24S-31E	8625	No
SOTOL FEDERAL #002	30-015-23977	O	CHESAPEAKE OPERATING, INC.	11/1/1981	K-01-24S-31E	Plugged (15600)	No
SOTOL FEDERAL #003	30-015-28651	O	CHEVRON U S A INC	9/18/1995	3-01-24S-31E	8600	No
SOTOL FEDERAL #005	30-015-28653	O	CHEVRON U S A INC	10/8/1995	1-01-24S-31E	8650	No
SOTOL FEDERAL #006	30-015-28864	O	CHEVRON U S A INC	4/9/1996	E-01-24S-31E	8615	No
SOTOL FEDERAL #007	30-015-28865	O	CHEVRON U S A INC	6/14/1996	G-01-24S-31E	8627	No
SOTOL FEDERAL #009	30-015-32762	O	CHEVRON U S A INC	6/20/2003	O-01-24S-31E	8490	No
SUNDANCE 1 FEDERAL #001	30-015-21291	O	OXY USA INC	2/4/1995	F-01-24S-31E	8600	No
SUNDANCE 1 FEDERAL #002	30-015-27227	O	OXY USA INC	5/14/1996	4-01-24S-31E	8560	No
SUNDANCE 1 FEDERAL #003	30-015-28120	O	OXY USA INC	9/17/1994	H-01-24S-31E	8600	No
SUNDANCE 1 FEDERAL #004	30-015-28176	O	CHEVRON U S A INC	12/2/1996	P-01-24S-31E	8600	No
SUNDANCE 1 FEDERAL #005	30-015-30213	O	OXY USA INC	4/7/1998	2-01-24S-31E	8510	No
SUNDANCE 1 FEDERAL #007	30-015-30061	O	OXY USA INC	1/31/1998	J-01-24S-31E	8562	No
SUNDANCE 1 FEDERAL #008	30-015-29686	O	OXY USA INC	7/27/1997	L-01-24S-31E	8500	No
SUNDANCE 1 FEDERAL #009T	30-015-33893	O	OXY USA INC	Not Drilled	N-01-24S-31E	Proposed TMD (8650)	No
TODD 2 STATE #001	30-015-21497	O	CHEVRON U S A INC	4/1/1975	F-02-24S-31E	15120	No
TODD 2 STATE #003	30-015-28906	O	CHEVRON U S A INC	4/25/1996	P-02-24S-31E	8511	No
TODD 2 STATE #004	30-015-28905	O	CHEVRON U S A INC	5/27/1996	I-02-24S-31E	8525	No
TODD 2 STATE #005	30-015-29366	O	CHEVRON U S A INC	1/1/1998	H-02-24S-31E	8506	No
TODD 2 STATE #012	30-015-32416	O	CHEVRON U S A INC	10/22/2002	K-02-24S-31E	8383	No
TODD 2 STATE #013	30-015-32500	O	CHEVRON U S A INC	3/15/2003	1-02-24S-31E	8457	No
TODD 2 STATE #014	30-015-32781	O	CHEVRON U S A INC	7/9/2003	2-02-24S-31E	8408	No
TODD 36 J STATE #009	30-015-29404	O	DEVON ENERGY PRODUCTION COMPANY, LP	5/28/1997	J-36-23S-31E	8661	No
TODD 36 K STATE #005	30-015-28521	O	DEVON ENERGY PRODUCTION COMPANY, LP	3/30/1996	K-36-23S-31E	8672	No
TODD 36 L STATE #004	30-015-28198	O	DEVON ENERGY PRODUCTION COMPANY, LP	2/23/1995	L-36-23S-31E	8450	No
TODD 36 M STATE #013	30-015-28815	O	DEVON ENERGY PRODUCTION COMPANY, LP	6/17/1996	M-36-23S-31E	8625	No
TODD 36 N STATE #014	30-015-28762	O	DEVON ENERGY PRODUCTION COMPANY, LP	8/17/1996	N-36-23S-31E	8586	No
TODD 36 O STATE #010	30-015-29405	O	DEVON ENERGY PRODUCTION COMPANY, LP	6/16/1997	O-36-23S-31E	8746	No
TODD 36 P STATE #019	30-015-29407	O	DEVON ENERGY PRODUCTION COMPANY, LP	7/4/1997	P-36-23S-31E	8678	No
TODD 36 STATE #231H	30-015-45379	O	DEVON ENERGY PRODUCTION COMPANY, LP	Not Drilled	N-36-23S-31E	Proposed TMD (15526)	No
USA TODD 2 STATE #011	30-015-32420	O	CHEVRON U S A INC	10/4/2002	3-02-24S-31E	8380	No
USA TODD 2 STATE #015	30-015-33004	O	CHEVRON U S A INC	10/12/2003	G-02-24S-31E	8400	No
Notes: No wells within the 1-mile AOR penetrate the injection interval.							

Attachment 3

Source Water Analyses

Wolfcamp

BAKER HUGHES

Water Analysis

Date: 23-Aug-11

2708 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~~ Eddy	New Mexico 1-26S-29E

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
Soluable Iron (FE2)	in Mg/L	10.0	in PPM	9

Anions

Chlorides	in Mg/L	130,000	in PPM	110,922
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	182,868	in PPM	156,031

Scaling Tendencies

*Calcium Carbonate Index 507,520

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 - 10,000,00 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) 229-8121
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	
Sampling Date:	03/10/11
Analysis Date:	03/18/11
Analyst:	SANDRA GOMEZ
TDS (mg/l or g/m3):	184911.1
Density (g/cm3, tonne/m3):	1.113
Anion/Cation Ratio:	1
Carbon Dioxide:	0 50 PPM
Oxygen:	
Comments:	

Analysis of Sample 534665 @ 75 °F

Anions	mg/l	meq/l	Cations	mg/l	meq/l
Chloride:	109618.0	3091.92	Sodium:	70275.7	3056.82
Bicarbonate:	2135.0	34.99	Magnesium:	195.0	16.04
Carbonate:	0.0	0.	Calcium:	844.0	42.12
Sulfate:	747.0	15.55	Strontium:	220.0	5.02
Phosphate:			Barium:	0.8	0.01
Borate:			Iron:	6.5	0.23
Silicate:			Potassium:	869.0	22.22
			Aluminum:		
Hydrogen Sulfide:		0 PPM	Chromium:		
pH at time of sampling:		7	Copper:		
pH at time of analysis:			Lead:		
pH used in Calculation:		7	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 $CaSO_4 \cdot 2H_2O$		Anhydrite $CaSO_4$		Celestite $SrSO_4$		Barite $BaSO_4$		CO_2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
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	206.05	-1.29	0.00	-1.20	0.00	-0.15	0.00	0.35	0.29	2.35
120	0	1.12	224.17	-1.36	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

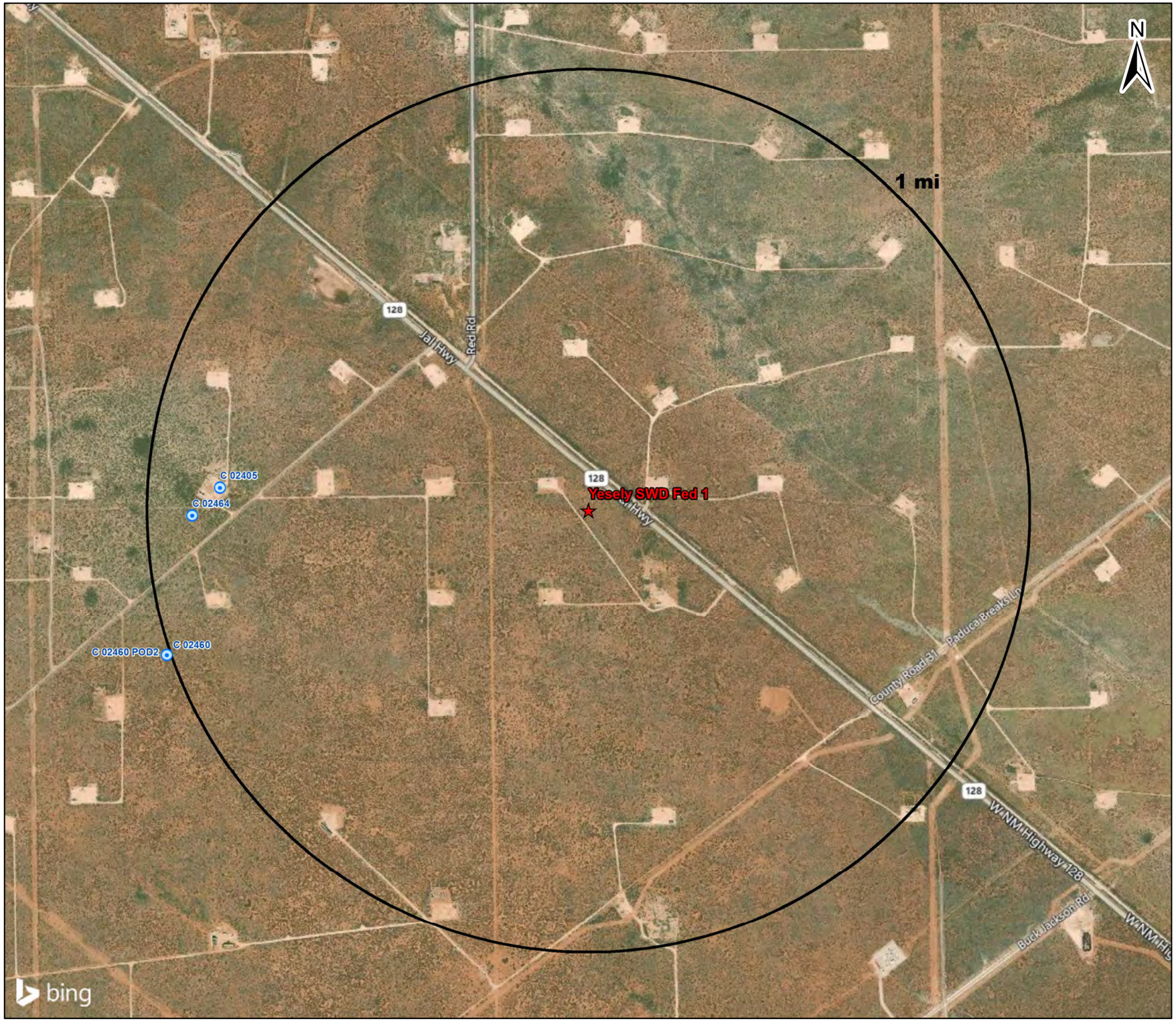
Injection Formation Water Analyses

wellname	api	section	township	range	county	state	formation	sampledate	ph	specificgravity	specificgravity_temp_F	tds_mgL	resistivity_ohm_cm	resistivity_ohm_cm_temp_F	conductivity	conductivity_temp_F	sodium_mgL	calcium_mgL	magnesium_mgL	chloride_mgL	bicarbonate_mgL	sulfate_mgL
JURNEGAN POINT #001	3001510280	5	24S	25E	EDDY	NM	DEVONIAN	12/14/1964 0:00	7			203100								121100	175	2220
WHITE CITY PENN GAS COM UNIT 1 #001	3001500408	29	24S	26E	EDDY	NM	DEVONIAN	3/1/1960 0:00	7	1.012	60		0.36	75	25596	64	6072	1002	132	10120	653	1336

Source: Go-Tech (http://gotech.nmt.edu/gotech/Water/producedwater.aspx)

Attachment 5

Water Well Map and Well Data



0 0.225 0.45 0.9 Miles

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Prepared for: BLACKBUCK RESOURCES

Legend

- Proposed SWD
- Water Well (iWATERS)
- Proposed SWD 1-mile AOR

Water Wells Area of Review

Yesely SWD Fed 1

Eddy County, New Mexico

Proj Mgr: Dan Arthur	October 25, 2018	Mapped by: Ben Bockelmann

Prepared by: ALL CONSULTING

Water Well Sampling Rationale				
Yesely SWD Fed 1				
Water Wells	**Owner**	**Available Contact Information**	**Use**	**Notes**
C 02460	Richardson Cattle Company	Jimmy Richardson (Owner):575-706-4063 Garth Grizzle (Ranch Foreman): 575-200-7013	Plugged	The Ranch Foreman stated that this well is plugged.
C 02460 POD2	Richardson Cattle Company	Jimmy Richardson (Owner):575-706-4063 Garth Grizzle (Ranch Foreman): 575-200-7013	Plugged	The Ranch Foreman stated that this well is plugged.
C 02464	Richardson Cattle Company	Jimmy Richardson (Owner):575-706-4063 Garth Grizzle (Ranch Foreman): 575-200-7013	Inactive	The Ranch Foreman stated that this well is not in use and does not currently have a pump installed.
C 02405	Chevron	Lindsey Ainsworth lainsworth@chevron.com 432-687-7927	Prospecting or Development of Natural Resource	State records indicate that this water well has not been in use since 2005.

Note: none of the water wells within 1 mile of the proposed SWD location are currently in use.

Attachment 6

Induced Seismicity Assessment Letter

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

November 29, 2018

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 Yesely SWD Fed 1

Dear Mr. Goetze,

This letter provides information regarding the seismic potential associated with injection operations associated with Blackbuck Resources LLC's (Blackbuck), proposed Yesely SWD Fed 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 2,320' FNL & 1,116' FWL of Section 1, in T24-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 9.4 miles northwest 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 1.6 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 16.1 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 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 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

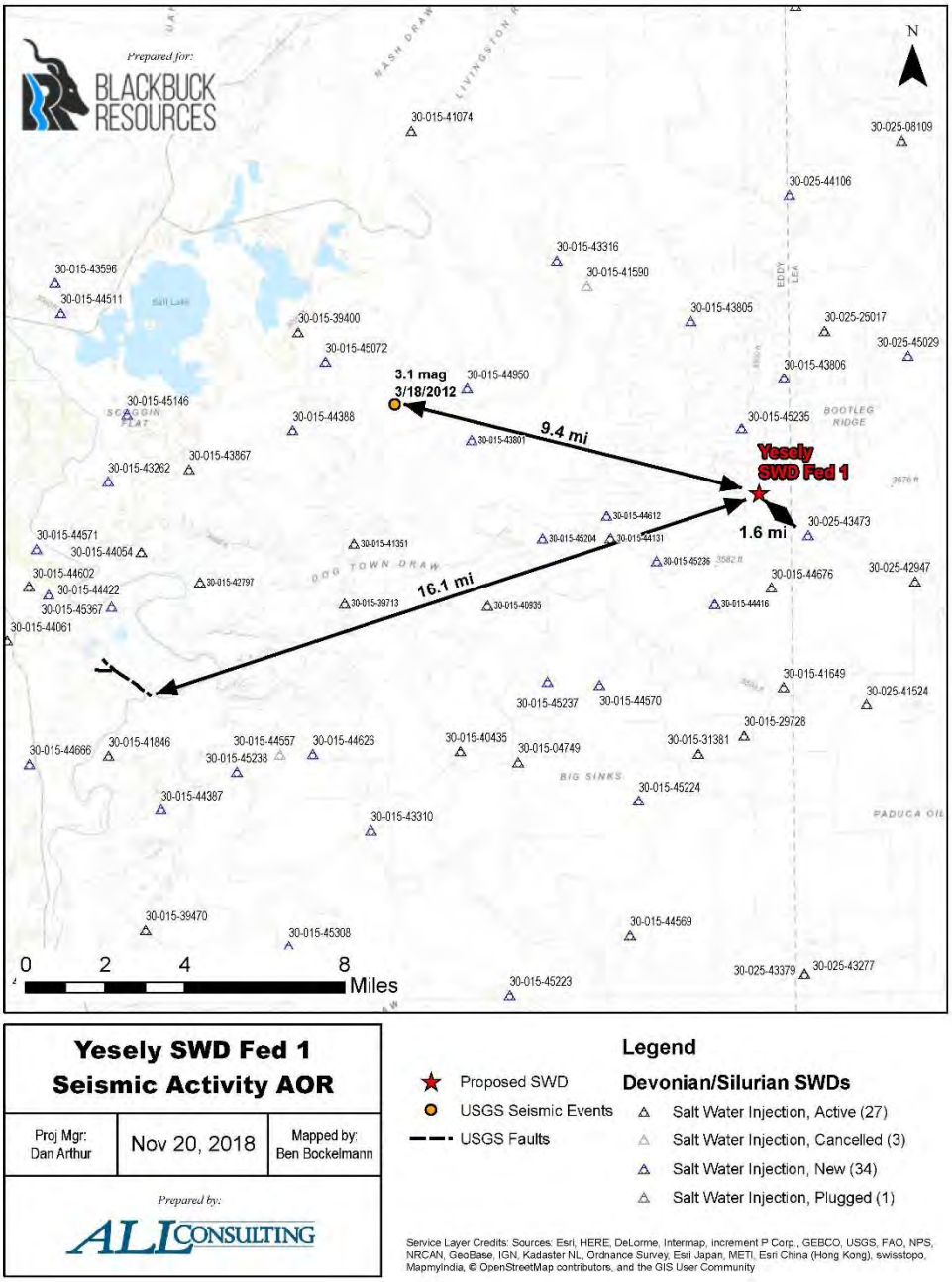

Exhibit 1. Map Showing the Distances from Known and Inferred Faults, Seismic Event, and Closest Deep Injection Well

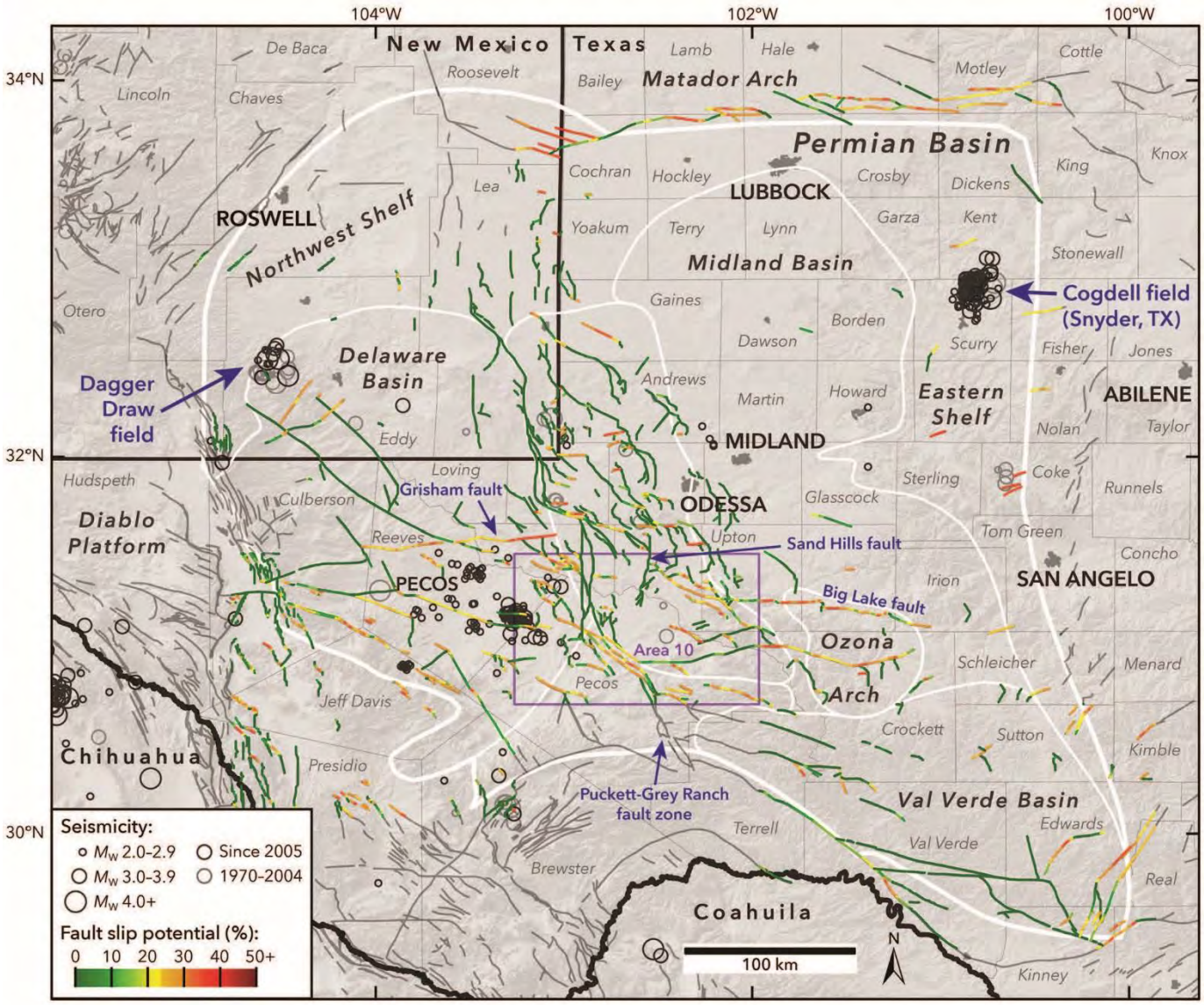

Exhibit 2. Results of the Snee and Zoback (2018) Probabilistic FSP Analysis Across the Permian Basin

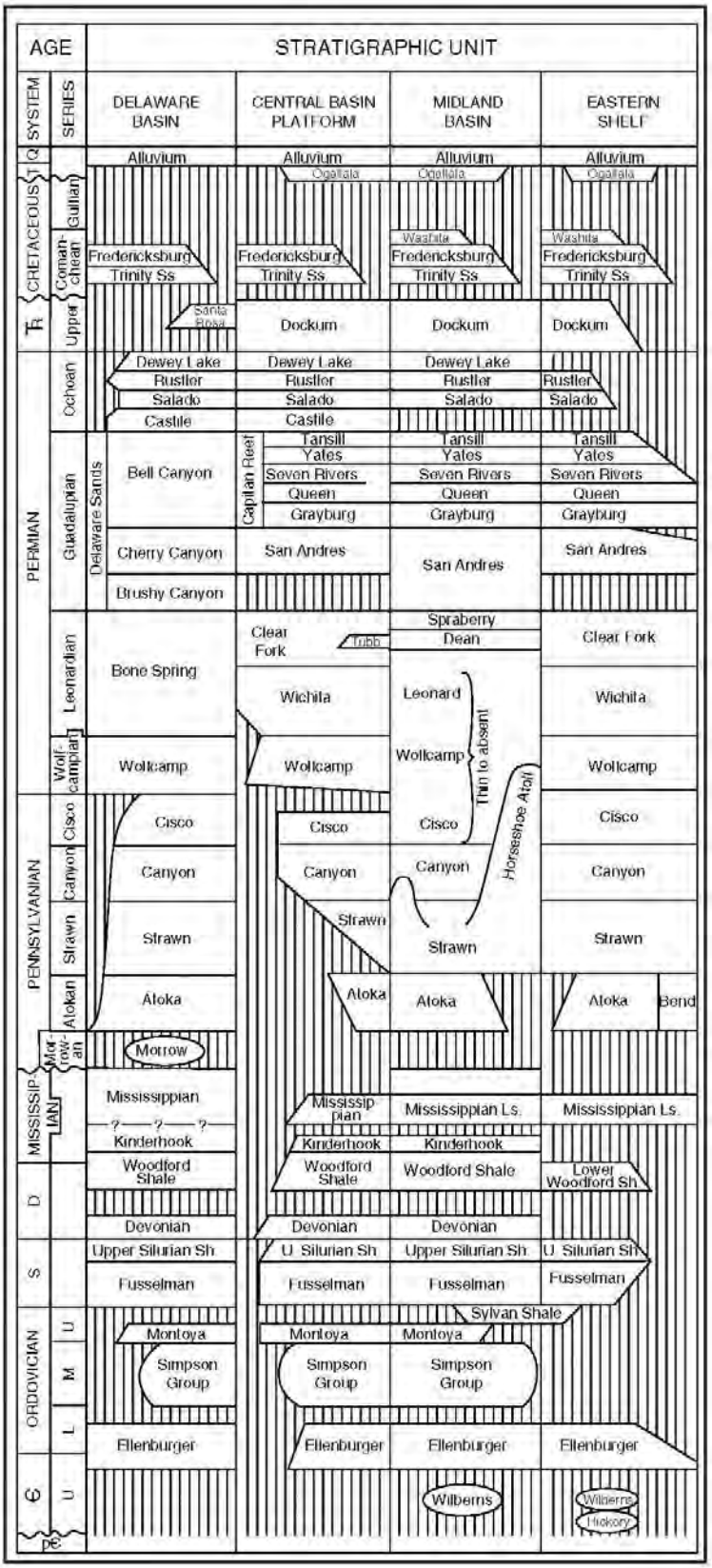

Exhibit 3. Delaware Basin Stratigraphic Chart (Ball 1995)

Attachment 7

Public Notice Affidavit and Notice of Application Confirmations

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001268215

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:

11/13/18

Legal Clerk

Subscribed and sworn before me this
13th of November 2018.

State of WI, County of Brown
NOTARY PUBLIC

9-19-21

My Commission Expires

VICKY FELTY
NOTARY
PUBLIC
STATE OF WISCONSIN

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: Yesely SWD Fed 1
SW ¼ NW ¼, Section 1, Township 24S, Range 31E
2,320' FNL & 1,116' FWL
Eddy County, NM

NAME AND DEPTH OF DISPOSAL ZONE:
Devonian-Silurian (16,650' - 18,000')
EXPECTED MAXIMUM INJECTION RATE: 30,000 Bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE: 3,330 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.
Pub: November 13, 2018 #1268215

Ad#:0001268215
P O : 0001268215
# of Affidavits :0.00

Yesely SWD Fed 1 SWD 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				
Bettis Boyle & Stovall, Inc.	P.O. Box 1240	Graham	TX	76450
Charles P. Miller	1220 South St. Francis Dr.	Santa Fe	NM	87505
Chesapeake Operating, Inc.	P.O. Box 18496	Oklahoma City	OK	73154-0496
Chevron USA Inc.	1400 Smith Street	Houston	TX	77002
COG Production, LLC	600 W. Illinois Ave.	Midland	TX	79701
Concho Exploration	110 West Louisiana Ave, Suite 410	Midland	TX	79701
Curtis Hankamer	9039 Katy Freeway	Houston	TX	77024
Devon Energy Production Company	333 W. Sheridan Ave.	Oklahoma City	OK	73102
Gulf Oil Company	P.O. Box 1938	Roswell	NM	88202
Mesa Verde Enterprises, Inc.	396 La Luz Gate Rd.	Alamogordo	NM	88310
OXY USA Inc	P.O Box 2647	Houston	TX	77252
Pogo Production Company, LLC	300 N Marienfeld St, Suite 600	Midland	TX	79701
Sonat Exploration Company	110 West Louisiana Ave, Suite 500	Midland	TX	79701
Sotol Energy, Inc.	P.O. Box 688	Georgetown	TX	78627
Sundance Oil Co.	1776 N Lincoln Street	Denver	CO	80203
Superior Oil Company	P.O. Box 1150	Midland	TX	79702
Texaco Inc.	P.O. Box 2100	Denver	CO	80201
Thomas E. Jennings	P.O. Box 1797	Roswell	NM	88202
Todd Oil Company	6116 North Central Expressway, Suite 614	Dallas	TX	75206

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Houston TX 77002-7327

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