AE Order Number Banner

Application Number: pEG2528352412

Initial Application Part I

SWD-2678

Blackbuck New Mexico LLC [373619]

Received: 10/02/2025



September 30, 2025

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

Subject: Blackbuck New Mexico LLC

Application for Authorization to Inject

Republic SWD #1

OCD Manager,

Blackbuck New Mexico LLC (Blackbuck) is applying for administrative approval of the attached Application for Authorization to Inject (Form C-108) for their proposed Republic SWD #1. The application is requesting authorization to dispose of saltwater from oil and gas production in the area via commercial disposal into the Devonian-Silurian Formation in Eddy County, NM.

Questions regarding this application or the included materials can be directed to Nate Alleman (Blackbuck Regulator Advisor Contractor) via telephone at 918-237-0559 or via email at nate.alleman@aceadvisors.com.

Sincerely,

Chief Regulatory Advisor

Ace Energy Advisors

		Lava	1				
RECEIVED:	REVIEWER:	TYPE:	APP NO:				
	- Geolog	ABOVÉTHIS TABLE FOR OCC CO OIL CONSERV Jical & Engineerin Francis Drive, San	'ATION DIVISION g Bureau –				
		RATIVE APPLICAT					
IHIS	CHECKLIST IS MANDATORY FOR REGULATIONS WHICH I	all administrative applic require processing at th					
pplicant: Blackbu				RID Number: <u>373619</u>			
ell Name: Repub				30-015-xxxxx			
SWD; Devonian-	Silurian		Pool	Code: 97869			
SUBMIT ACCUR	ATE AND COMPLETE IN	NFORMATION REQUINDICATED BELO		THE TYPE OF APPLICATION			
A. Location B. Check of [1] Com [1] Inje	ICATION: Check those n – Spacing Unit – Simulation NSL NSP one only for [1] or [11] nmingling – Storage – Normality DHC CTB Control with the control	Ultaneous Dedication PROJECT AREA) Measurement PLC PC (Sure Increase – Enh	ON SP (PRORATION UNIT)]SD ery			
A. Offse A. Offse B. Roya C. Appli D. Notifi E. Notifi F. Surfa G. For a	N REQUIRED TO: Check t operators or lease ho lty, overriding royalty of cation requires publish cation and/or concur cation and/or concur ce owner Il of the above, proof of otice required	k those which appliolders owners, revenue ovned notice rent approval by Sirent approval by B	y. wners LO LM	FOR OCD ONLY Notice Complete Application Content Complete Ched, and/or,			
administrative understand the	N: I hereby certify that e approval is accurate nat no action will be to are submitted to the D	and complete to aken on this applic	the best of my kn	• •			
N	lote: Statement must be comp	leted by an individual wit	h managerial and/or su	pervisory capacity.			
			09/302025				
Nathan Alleman			Date				
Print or Type Name	nt or Type Name			918-237-0559			
			Phone Numbe	r			
Nothan Alleman			nate.alleman@ac	eadvisors.com			
ignature		<u>—</u>	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? Yes No
II.	OPERATOR: Blackbuck New Mexico LLC
11.	ADDRESS: 3200 Southwest Freeway, Houston, TX 77027
	CONTACT PARTY: Ace Energy Advisors - Nate Alleman PHONE: (918) 237-0559
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 Yes 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. Su data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schema of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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 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 day and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources 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
ł	pelief.
	JAME: Nate Alleman
	SIGNATURE: Nation Alleman DATE: 09/302025
F	E-MAIL ADDRESS: nate.alleman@aceadvisors.com
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

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

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

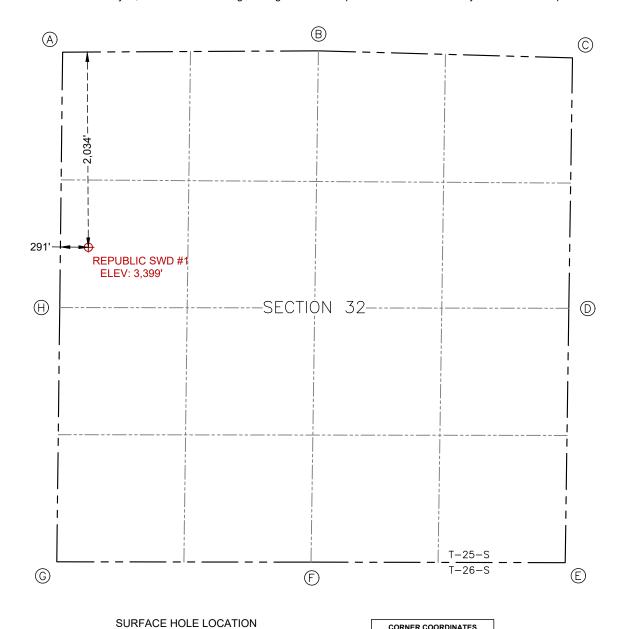
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

)2 Electronicall Dermitting	У	Er		inerals & Natı	ew Mexico ıral Resources De _l TION DIVISION	partment		☐ Initial Su	Revised July 9, 2024		
Via Oci	o i emitting							Submittal Type:				
•								турс.	☐ As Drille	ed		
					WELL LOCAT	ION INFORMATION						
API N	umber		Pool Code	•	97869	Pool Name SV	VD-DEVON	AN-SILUF	RIAN			
Proper	ty Code		Property N	lame	RE	PUBLIC SWD			Well Numb	per #1		
OGRI	O No. 37361	9	Operator I	Name		NEW MEXICO, LLO			Ground Le	vel Elevation 3,399'		
:	Surface Ow	ner: State	☐ Fee ☐ ☐	ribal □ F			vner: State	e 🗆 Fee 🗆	☐ Tribal ☐ F	ederal		
					Quefe	ice Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County		
E	32	25S	26E		2,034' FNL	. 291' FWL	32.0880	73° -10	04.322637°	EDDY		
<u> </u>			<u> </u>		Botton	L n Hole Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County		
Dedica	ated Acres	Infill or Defir	ning Well	Definin	g Well API	Overlapping Spacir	ng Unit (Y/N)	Consolidat	tion Code			
Order	Numbers.	•				Well setbacks are under Common Ownership: □Yes □No						
					Kick C	off Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County		
				<u>.</u>	First T	ake Point (FTP)		<u> </u>				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County		
					Last T	ake Point (LTP)		<u> </u>				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County		
Unitize	d Area or A	rea of Uniform	n Interest	Spacin	g Unit Type □ H	orizontal □ Vertical	Grou	nd Floor Ele	evation:	_		
OPER	ATOR CER	TIFICATIONS				SURVEYOR CERTIF	FICATIONS					
my knoorganizatincluding location interest, entered If this we consent interest	wledge and be ation either ow g the propose pursuant to a or to a volunt by the division ell is a horizont of at least one in each tract (i ed interval will	elief, and, if the rns a working in! d bottom hole lot contract with an cary pooling agree . all well, I further or lessee or owner in the target pool of be located or obt	well is a vert terest or unlea ocation or has owner of a work ement or a com- tertify that this of of a working in or formation) in ained a compu	cal or direct sed mineral a right to cling interest inpulsory poor organization terest or unlimble which any properties of the clinical and properties or unlimble and properties or un	part of the well's g order from the	correct to the best of my	me or under ob y belief. R	OWN ON this p y subdepysion MEXICO	lat was plotted and that the s	from field notes of came is true and		
Signatu				ate		Signature and Seal of P	rofessional Sur	veyor				
Nat	han Allemar	1										
Printed	Name					Certificate Number	Date of Sur	vey	Revision	n Number		
		@aceadevisor	rs.com			12177	9/1	6/2025		0		
Email A		will be assign	ad to this as	mplotion	ıntil all interests h	ave been consolidated	or a non stan	dard unit be	na haan annr	aved by the division		

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



2,034' FNL & 291' FWL ELEV. = 3,399.00' NAD 83 X = 544,650.06' NAD 83 Y = 395,778.06' NAD 83 LAT = 32.088073° NAD 83 LONG = -104.322637° NAD 27 X = 503,467.10' NAD 27 Y = 395,721.46'

NAD 27 LAT = 32.087954° NAD 27 LONG = -104.322138°

	CORNER COORDINATES NEW MEXICO EAST - NAD 83									
POINT	NORTHING/EASTING									
А	IRON PIPE W/ BRASS CAP N:397,810.38' E:544,382.34'									
В	IRON PIPE W/ BRASS CAP N:397,824.24' E:547,046.55'									
С	IRON PIPE W/ BRASS CAP N:397,750.67' E:549,692.90'									
D	IRON PIPE W/ BRASS CAP N:395,142.67' E:549,654.62'									
Е	IRON PIPE W/ BRASS CAP N:392,493.13' E:549,616.67'									
F	IRON PIPE W/ BRASS CAP N:392,498.27' E:546,969.36'									
G	IRON PIPE W/ BRASS CAP N:392,501.84' E:544,321.71'									
Н	IRON PIPE W/ BRASS CAP N:395,150.36' E:544,352.28'									

Listed depths are measured from ground surface.

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Depths and cement volumes are estimates based on evaluation of the available information.

Prepared By:

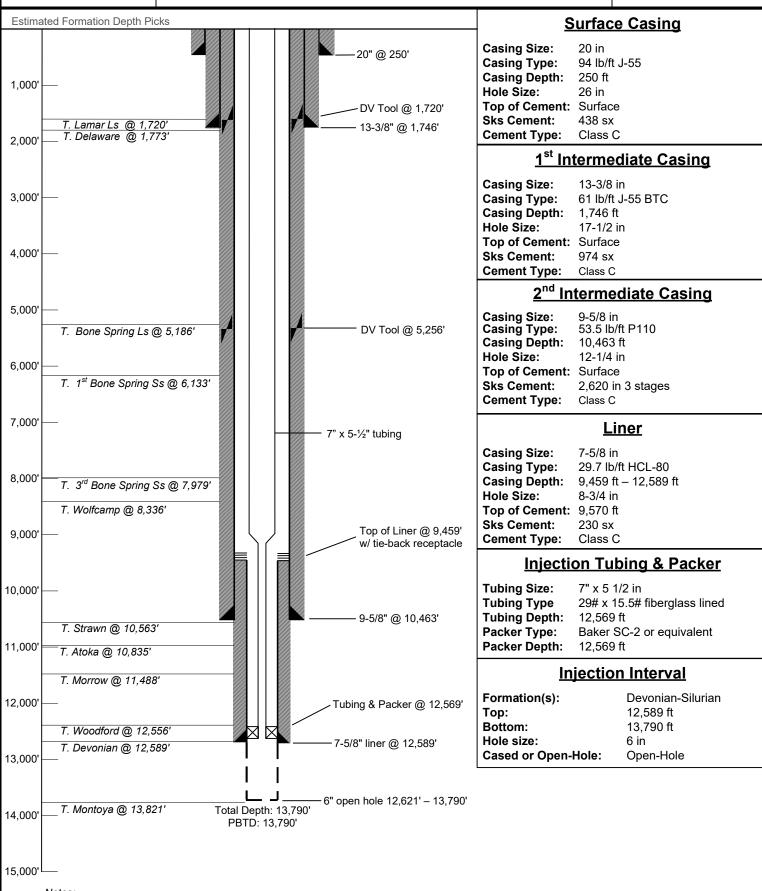
ACE &
Energy Advisors

Republic SWD #1

Proposed Wellbore Diagram



NOT TO SCALE



SC-2 Retrievable Packer

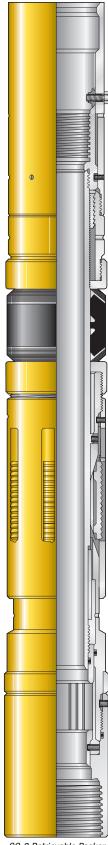
Product Family No. H48807

APPLICATION

The Baker Hughes SC- 2^{TM} 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, tubingconveyed perforating and gravel-packing systems



SC-2 Retrievable Packer Product Family No. H48807

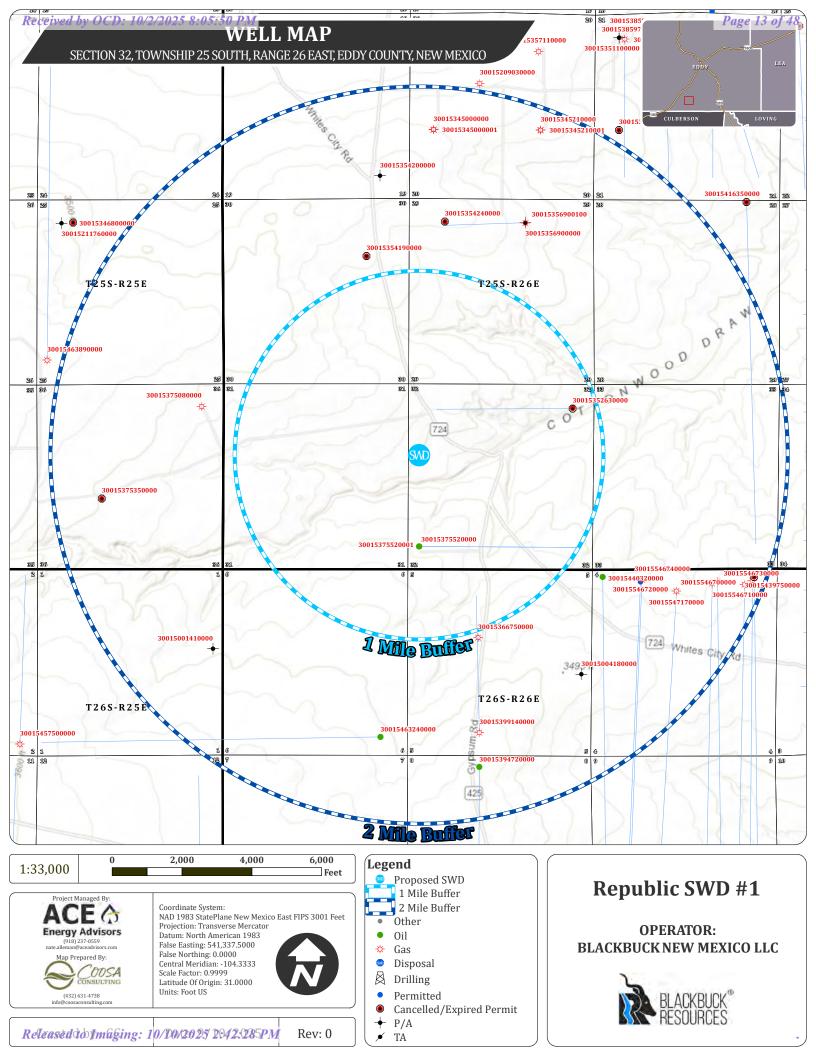
SPECIFICATION GUIDE

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

	Casing			Packer *								
C	OD T & C Weight ▼		Siz	re •	Max Gago	e Ring OD	Max Packing Element					
in.	mm	lb/ft			in.	mm	in.	mm				
		20-23	55A2	2–26	4.485	113.9	4.406	111.9				
5-1/2	139.7	17–20	55A	4–26	4.593	116.6	4.500	114.3				
		13–15.5	55B	3–26	4.765	121.0	4.687	119.0				
		35–38	70A	2–32	5.735	145.6	5.687	144.4				
7	177.0	29–32	70A	70A4-32		147.8	5.750	146.0				
/	177.8	23–29	70E	3–32	6.000	152.4	5.937	150.8				
		17–20	700	C-32	6.250	158.7	6.187	157.1				
		33.7–39	76A2-32 ◆	76A2-40 ◆	6.440	163.6	6.375	161.9				
7-5/8	193.6	29.7–33.7	76A4-32 ◆	76A4-40 ◆	6.580	167.1	6.500	165.1				
7-5/6	193.6	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				
		53.5-58.4	96A-47		8.191	208.0	8.125	206.3				
0.5/0	0.5/0		96A2	2–47	8.319	211.3	8.250	209.5				
9-5/8	244.4	40-47	96A	4–47	8.465	215.0	8.375	212.7				
	36-		968	3–47	8.619	218.9	8.500	215.9				

	Sealbore Dia fo	r Seal Nipples ■	Seal	Min Bore Thru Seal Nipples				
Size	in.	mm	Accessory Size ▲	in.	mm			
55A2-26								
55A4-26	2.688	68.2	40–26	1.968	50.0			
55B-26								
70A2-32								
70A4-32								
70B-32	3.250	82.5	80-32 or 81-32	2.406 or 1.995	61.1 or 50.6			
700–32								
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								
96A2-47	4.750	120.6	190–47 or 192–47	3.000 or 3.875	72.6 or 98.4			
96A4-47	4.750	120.0	130-47 01 192-47	3.000 01 3.073	72.001 90.4			
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.

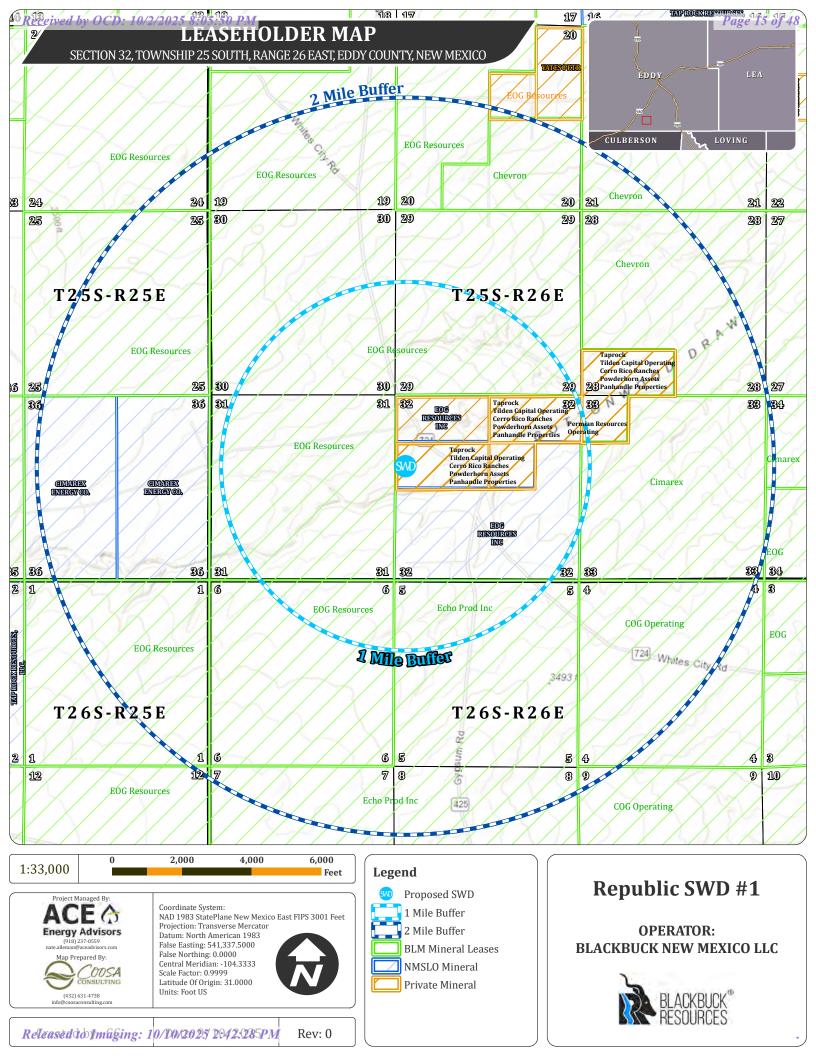


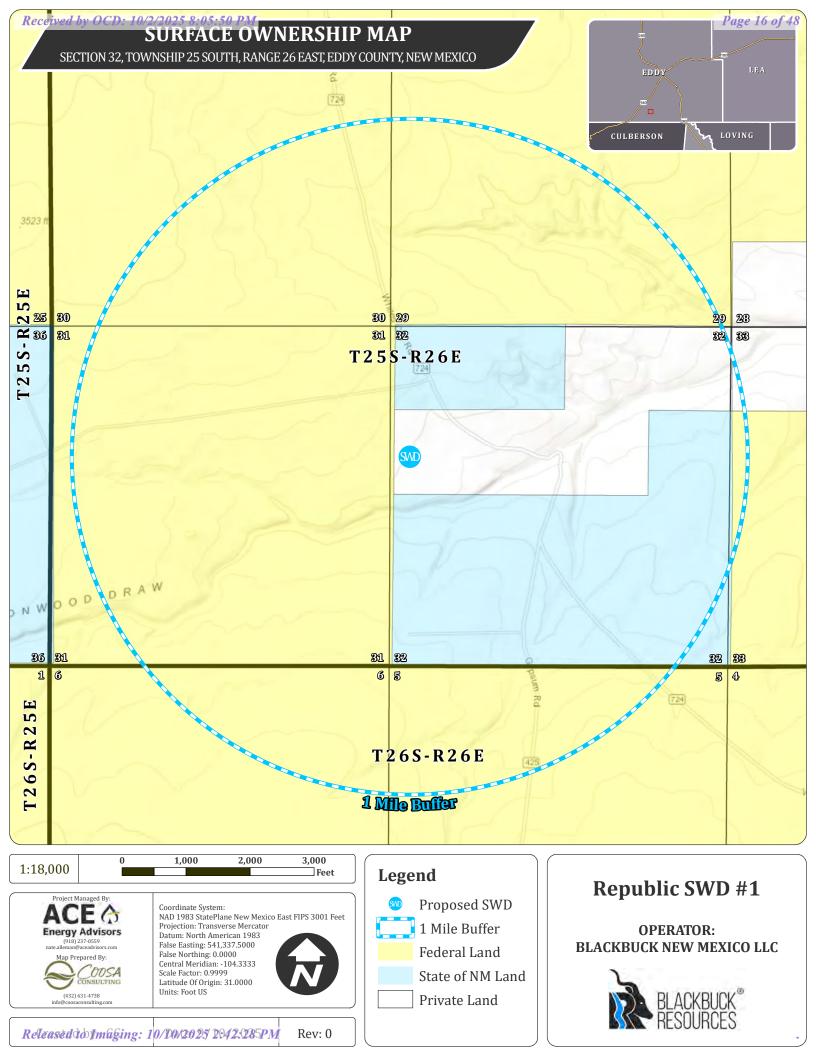
	1-mile Well List (Top of Injection Interval: 12,589')											
Well Name	API#	Well Type	Operator	Status	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?				
OSPREY BPS STATE #001H	30-015-37552	Oil	EOG RESOURCES INC**	Active	1/31/2010	M-32-25S-26E	10,255	No				
NEO STATE COM #001D	30-015-35263	Gas	CIMAREX ENERGY CO. OF COLORADO	Cancelled	N/A	D-32-25S-26E	0	No				
Notes:												

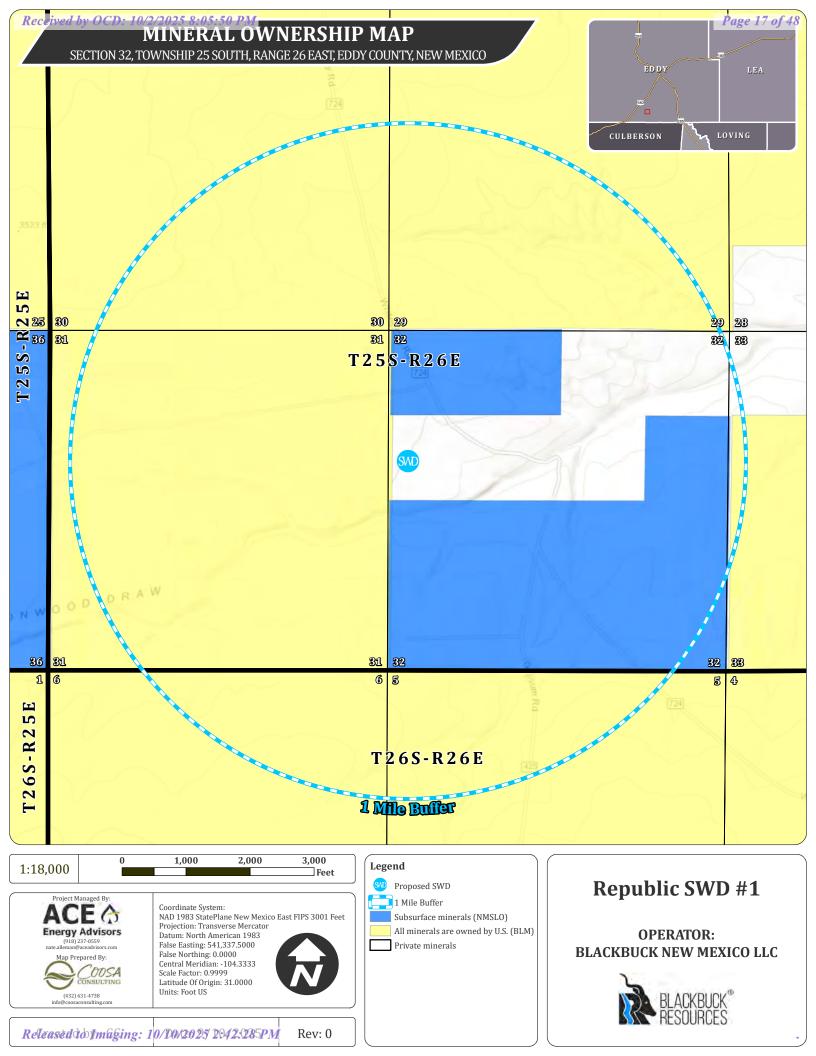
Notes:
- No wells penetrate the injection interval within the AOR.
- ** Operator of active, drilled well within AOR and will receive notification of this application.

Horizontal Well w/ Surface Location Outside the 1.0-mile AOR												
Well Name API# Well Type Operator Field Status Depth												
LUCKY BAMBOO 5 FEDERAL 003H	UCKY BAMBOO 5 FEDERAL 003H 30-015-39914 Gas COG OPERATING LLC** WOLFCAMP GAS, PURPLE SAGE Active 9,342											
Notes: - ** Operator of active, drilled well within AOR and will recei												

Penetrating Well Casing and Cement Details											
API# Type Hole Size Depth Sacks TOC Method Problem											
Notes:											
There are no penetrating wells in the AOR.											











Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet Projection: Transverse Mercator Datum: North American 1983 False Easting: 541,337.5000 False Northing: 0.0000

Central Meridian: -104.3333 Scale Factor: 0.9999 Latitude Of Origin: 31.0000 Units: Foot US

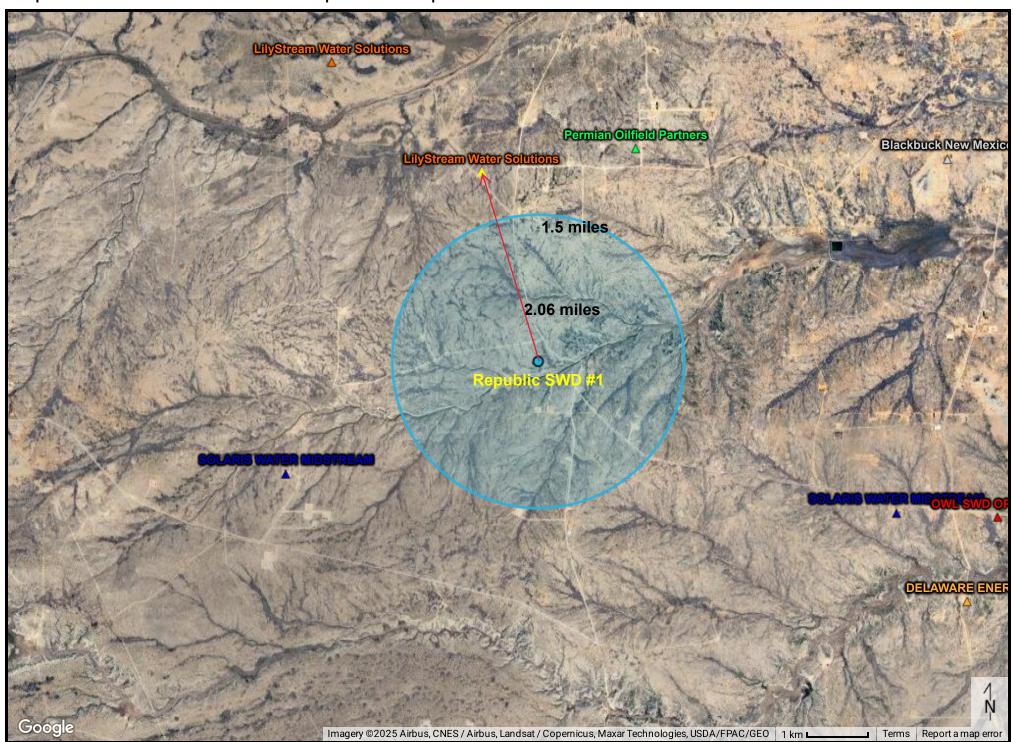
Potash District

OPERATOR: BLACKBUCK NEW MEXICO LLC



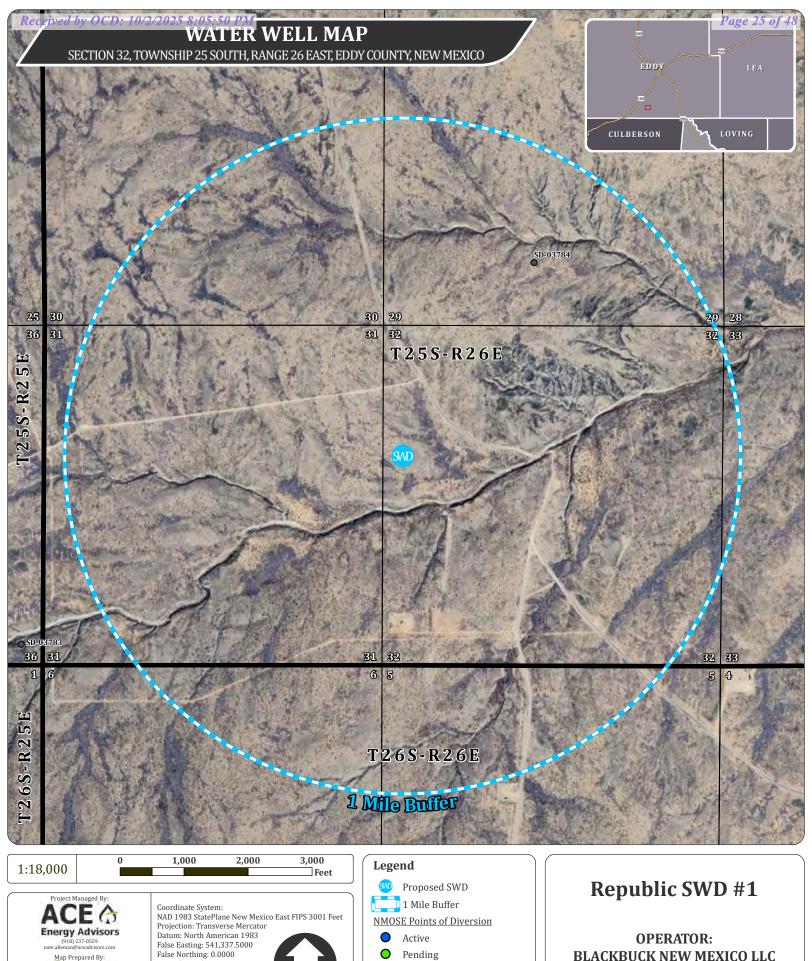
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Rev: 0



	Source Formation Water Analysis													
Well Name	API	Latitude	Longitude	Sec.	Township	Range	Unit	Formation	Sampled	PH	TDS (Mg/L)	Chloride (Mg/L)	Bicarbonate (Mg/L)	Sulfate (Mg/L)
DOC HOLLIDAY 32 STATE COM #001	30-015-41145	32.1804123	-104.220192	32	248	27E	D	BONE SPRING 2ND SAND	2014	6.7	193,316	120,600	171	17
PREACHER 19 FEDERAL #003H	30-015-41887	32.1957703	-104.2276001	19	248	27E	0	BONE SPRING 2ND SAND	2014	6.5	193,786	119,000	130	34
PREACHER 19 FEDERAL #003H	30-015-41887	32.1957703	-104.2276001	19	24S	27E	0	BONE SPRING 2ND SAND	2015	7	177,820	108,941	366	0
JOSEY WALES 16 STATE COM #003H	30-015-41090	32.2103996	-104.1936798	16	24S	27E	0	BONE SPRING 2ND SAND	2013	6.47	179,420	112,857	146	573
DOC HOLLIDAY 32 STATE COM #001	30-015-41145	32.1804123	-104.220192	32	24S	27E	D	BONE SPRING 2ND SAND	2014	6.3	205,799	128,749	122	17
PREACHER 19 FEDERAL #003H	30-015-41887	32.1957703	-104.2276001	19	24S	27E	0	BONE SPRING 2ND SAND	2014	5.8	203,718	125,605	144	34
JOSEY WALES 16 STATE COM #003H	30-015-41090	32.2103996	-104.1936798	16	248	27E	0	BONE SPRING 2ND SAND	2015	7.6	176,589	109,722	146	0
DOC HOLLIDAY 32 STATE COM #001	30-015-41145	32.1804123	-104.220192	32	24S	27E	D	BONE SPRING 2ND SAND	2015	7.3	197,760	123,850	146	0
DOC HOLLIDAY 32 STATE COM #001	30-015-41145	32.1804123	-104.220192	32	24S	27E	D	BONE SPRING 2ND SAND	2014	7.3	127,682	77,098	195	0
PREACHER 19 FEDERAL #003H	30-015-41887	32.1957703	-104.2276001	19	24S	27E	0	BONE SPRING 2ND SAND	2014	7.4	312,558	186,000	201	3,947
PREACHER 19 FEDERAL #003H	30-015-41887	32.1957703	-104.2276001	19	24S	27E	0	BONE SPRING 2ND SAND	2014	7.4	312,550	186,000	201	0
JOSEY WALES 16 STATE COM #003H	30-015-41090	32.2103996	-104.1936798	16	248	27E	0	BONE SPRING 2ND SAND	2015	6.5	179,141	109,123	73	0
DOC HOLLIDAY 32 STATE COM #001	30-015-41145	32.1804123	-104.220192	32	248	27E	D	BONE SPRING 2ND SAND	2015	7	203,230	124,269	49	0
IRRITABLE 22 STATE COM #002H	30-015-41359	32.1219177	-104.1758957	22	258	27E	В	BONE SPRING 2ND SAND	2015	6.8	161,087	100,324		544
BRADLEY FEDERAL #002	30-015-00387	32.2255516	-104.256218	11	248	26E	Р	DELAWARE			230,993	137,300	650	3,099
CRAWFORD #001	30-015-01121	32.2294731	-104.1977081	9	248	27E	K	DELAWARE			95,055	58,570	95	187
ST HAMILTON #001	30-015-01126	32.2109222	-104.186203	15	248	27E	М	DELAWARE			301,812	189,600	192	2,040
FED J #001	30-015-22471	32.0730133	-104.2359085	6	26S	27E	Е	DELAWARE	1978	5.7	255,599	160,000	24	330
FED J#001	30-015-22471	32.0730133	-104.2359085	6	26S	27E	Е	DELAWARE		7.4	265,727	158,000	37	3,600
FED J #001	30-015-22471	32.0730133	-104.2359085	6	26S	27E	Е	DELAWARE		7.6	255,336	156,000	76	790
FED J #001	30-015-22471	32.0730133	-104.2359085	6	26S	27E	Е	DELAWARE		8.5	263,830	157,000	78	3,700
WHITE CITY PENN GAS COM UNIT 1 #001	30-015-00408	32.1937523	-104.3088455	29	24S	26E	Α	WOLFCAMP	1960	7		10,000	645	1,320
LEE J FED #001	30-015-05973	32.2155037	-104.3304367	18	248	26E	J	WOLFCAMP		8.1		9,100		7,300
HABANERO 17 FEDERAL COM #001H	30-015-36108	32.2218475	-104.2062683	17	248	27E	Α	WOLFCAMP	2015	6.5	108,205	65,927	146	0
SERRANO 29 FEDERAL #001H	30-015-37763	32.1898842	-104.2062149	29	248	27E	Н	WOLFCAMP	2015	6.9	102,136	62,813	183	0
SERRANO 29 FEDERAL #001H	30-015-37763	32.1898842	-104.2062149	29	248	27E	Н	WOLFCAMP	2015	6.5	100,995	63,450	268	0

Disposal Formation Water Analysis														
Well Name	API	Latitude	Longitude	Sec.	Township	Range	Unit	Formation	Sampled	РН	TDS (Mg/L)	Chloride (Mg/L)	Bicarbonate (Mg/L)	Sulfate (Mg/L)
JURNEGAN POINT #001	30-015-10280	32.2405243	-104.423912	5	24S	25E	М	DEVONIAN	1964	7	229,706	136,964	198	2,511
JURNEGAN POINT #001	30-015-10280	32.2405243	-104.423912	5	248	25E	М	DEVONIAN	1964	7	203,100	121,100	175	2,220
WHITE CITY PENN GAS COM UNIT 1 #001	30-015-00408	32.1937523	-104.3088455	29	248	26E	Α	DEVONIAN	1960	7		10,120	653	1,336





Rev: 0

- Active
- Pending
- Changed Location of Well
- Inactive
- Capped
- Plugged
- Unknown

OPERATOR: BLACKBUCK NEW MEXICO LLC



	Water Well Sampling Table										
Water Well ID	Vater Well ID OSE Status Owner Available Contact Information Use Latitude Longitude Notes										
SD-03784	Declared	Janice Lucas	Po Box 96, White City, NM 88268	Livestock Watering	32.0964	-104.316	May be suitable for testing				



Subject C-108 Application for Authorization to Inject – Affirmative Geologic Statement

Blackbuck New Mexico LLC

Republic SWD #1

2,034' FNL & 291' FWL - Section 32 R25S T26E

Eddy County, New Mexico

After examination of publicly available geologic and engineering data, there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Jason Currie

Geologist. TXBG-PG Lic# 10329

Ace Energy Advisors, LLC.

Date 9/19/2025



SEISMIC RISK ASSESSMENT

Well Information

Well Name: Republic SWD #1

Operator: Blackbuck New Mexico LLC

Legal Location: Sec 5 Township 25S Range 26 E

General Location: Eddy County, New Mexico

Geologic Evaluation Performed By:

Jason Currie Geologist. TXBG-PG Lic# 10329 Point Bar Energy, LLC

Project Managed By:

Nate Alleman
Ace Energy Advisors

September 19, 2025

GENERAL INFORMATION

Blackbuck New Mexico LLC's (Blackbuck) proposed Republic SWD #1 (hereinafter referred to as the "Subject SWD") is located in Section 5 T25S, R27E, approximately 7 miles south of Whites City, NM in the Permian Basin. Blackbuck proposes to dispose of produced water within the Devonian-Silurian Formation through open-hole injection at a depth of 12,589 to 13,790 ft (bgs).

This report provides a description of the Subject SWD and proposed injection formation, existing groundwater sources, geologic isolation to prevent vertical migration of fluids, and assesses the potential for operation of the Subject SWD to result in induced seismicity based on the proximity and characteristics of known faulting and seismicity in the area.

GEOLOGY & SUBSURFACE OVERVIEW

DEEP SWD PROXIMITY

The Subject SWD is located approximately 2.8 miles from the nearest active or permitted Deep SWD (Devonian or deeper), which is the Pine Springs 2 State SWD #1, (30-015-42348, SWD-1474).

GROUNDWATER SOURCES

The local alluvium acts as the principal aquifer used for drinking ground water, if present, near the Subject SWD. Around the Subject SWD, the base of the lowermost Underground Source of Drinking Water (USDW) is at the top of the Permian Castile formation which lies 40 feet (bgs), which contains the first anhydrite/salt layer in the Salado Fm. Office of the State Engineer (OSE) data for domestic and livestock water wells indicate the deepest freshwater-bearing strata in the area occurs at depths of less than 200 ft.

VERTICAL MIGRATION OF FLUIDS

Proposed Injection Interval

The proposed injection interval, at depths of 12,589 ft – 13,790 ft, includes the Devonian and Silurian formations, which is a package of carbonates consisting of predominantly of dolomite with limestone and interbedded cherts. Dolomitic and limestone porosities are expected to range from 0% to 7% with higher skeletal cherts ranging greater than 7% due to secondary porosity in the form of vugs and fractures from weathering effects and compaction. Permeabilities in the 2-7% porosity dolomitic grainstones intervals are estimated to be in the 2-20 millidarcy range, with higher porosity intervals estimated to be in the 40-100 millidarcy range (Ruppel and Holtz, 1994). The open hole injection interval is expected to be within the majority of the higher permeability intervals.

Overlying Confinement

Overlying Confinement is provided by approximately 139 cumulative feet of low-permeability limestone and shale of the Mississippian Limestone and Woodford Shale that will act as barrier to fluid flow and prevent upward migration of injectate into overlying formations.

With the top of the proposed injection interval at 12,589 ft, there is expected to be approximately 12,549 ft of vertical separation between the injected fluids and the base of the lowermost USDW, including the 139 ft thick permeability barrier immediately overlying the injection interval. In addition to the geologic isolation, the freshwater resources will be further isolated and protected by surface casing that will be set at

approximately 250 ft (≈50 ft below the deepest freshwater-bearing strata in the area) and cemented to surface.

Underlying Confinement

Underlying Confinement is provided by approximately 429 cumulative feet of low-permeability carbonates of the Silurian-aged Montoya formation. The proposed well will TD approximately 31 ft above the top of the Ordovician Montoya and will not inject fluids into the Montoya itself in order to provide sufficient barrier to avoid injection into the Middle Ordovician Simpson, the Lower Ordovician Ellenburger, or the Cambrian and the Precambrian below. The Precambrian structure contours (Ruppel, 2009) show the basement to be at a depth of approximately 14,900 ft in this area. Therefore, the injection zone lies approximately 1,110 ft above the Precambrian basement.

SEISMIC RISK ASSESSMENT

The Seismic Risk Assessment consisted of a review of publicly available data including recorded seismic events, known faults and subsurface conditions, as well as Fault Slip Potential (FSP) modeling based on current and future subsurface conditions within the Seismic Area of Interest (Seismic AOI); a 6-mile radius around the Subject SWD.

Historical Seismicity

A search of U.S. Geological Survey (USGS) and New Mexico Tech earthquake catalogs resulted in <u>no recorded seismic events ≥M2.5 within the Seismic AOI (Seismic AOI) since 1970</u>. An expanded search of these earthquake catalogs showed the nearest seismic event ≥M2.5 to be an M2.63 event that occurred approximately 12 miles to the northwest in 2024 (Exhibit 1).

Faults and Subsurface Conditions

Blackbuck does not own any 2D or 3D seismic data in the area of this Subject SWD. Fault interpretations are based on well-to-well correlations and publicly available data and software as follows:

- USGS Quaternary Fault & Fold database shows no quaternary faults in the nearby area
- New Mexico Bureau of Geology and Mineral Resources. Open-file Geologic Map 304: Geologic Map Database of New Mexico.
- Basement faults as documented in the Snee & Zoback paper, "State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity", published in the February 2018 issue of the SEG journal, The Leading Edge, along with a method for determining the probability of fault slip in the area.
- Basement faults as documented in the Horne et al (2021) paper, "Basement-Rooted Faults of the Delaware basin and Central Basin Platform, Permian Basin, West Texas and Southeastern New Mexico".
- Fault data was also correlated to the NMOCD SWD Applications & Fault Map dated 02/14/2022, and to fault maps as published in the New Mexico Geological Society Special Publication 13A, "Energy and Mineral Resources of New Mexico: Petroleum Geology," by R. F. Broadhead, 2017.
- Fault interpretations in Pennsylvania intervals by Price, Buddy J., Xavier Janson, Charles Kerans,--Controls on mixed carbonate-siliciclastic slope morphology, early Permian, northern Delaware Basin, U.S.A., Marine and Petroleum Geology, Volume 143,2022.

A structure contour map (Ex. 1) of the Precambrian basement shows the Subject SWD is approximately 3.8 mi from the nearest basement-rooted fault inferred by Horne (2021). Information about known, nearby faults based on GIS data from NM BGMRS (2003), Horne et al. (2021) and Price (2022) is listed in Exhibit 4.

Snee and Zoback (2020) states, "The profound rotation of SHmax within the Delaware subbasin and Northwest shelf could be an expression of a transition from dominantly approximately north–south SHmax orientations around the Rio Grande Rift (RGF) to approximately east–west and east-northeast–west-southwest orientations that reflect the general state of stress in the central United States. <u>Around the Subject SWD, Snee and Zoback indicate a Shmax direction of S35°E and an A $_{\phi}$ of 0.52, indicating an extensional (normal) stress regime.</u>

Fault Slip Potential (FSP) Modeling

Software developed by the Stanford Center for Induced and Triggered Seismicity allows for the probabilistic screening of deep penetrating faults near the proposed injection zone (Walsh et al., 2016; Walsh et al., 2017). This software uses parameters such as stress orientations, fault strike/dip, injection rates, fault friction coefficients, etc. to estimate the potential for fault slip.

This FSP was performed using the best available data as subsurface/geologic input parameters (Exhibits 2, 3, 4 and 5). Additionally, to provide a conservative result, the modeled daily injection rate for pending SWDs was their maximum proposed injection rate [barrels per day (bpd)] and the modeled daily injection rate for the existing, active SWDs was their maximum historical reported injection rate (bpd). Since sustaining these maximum injection rates throughout the duration of the modeled time periods is not realistic, this approach provides an overly conservative modeling scenario.

Even with this overly conservative scenario, the model resulted in a zero (0%) percent FSP value (i.e. chance of slip) on all faults within the Seismic AOI over 20 years (Exhibit 1). The attached exhibits provide additional details of the model, including expected increase in pore pressure and pore pressure required for each fault to slip for each 5-yr interval.

CONCLUDING STATEMENTS

The Devonian-Silurian sequence in the area of the Subject SWD is well suited as a disposal interval because of the following findings:

- 1. The Mississippian limestone and Woodford shale formations provide a low permeability barrier overlying the injection interval to prevent upward migration into overlying formations and USDW's,
- 2. The Montoya formation provide a low permeability barrier underlying the injection interval to prevent downward fluid migration which could result in hydrologic communication with Precambrian basement rock.
- Sufficient permeabilities and porosities in the injection zone over an injection interval thickness of 1,201 ft is expected to allow for suitably high injection rates at low surface injection pressures, and
- 4. FSP and Pore Pressure modeling using conservative inputs resulted in an FSP value of zero (0) on all faults within the 6-mile Seismic AOI, demonstrating that the likelihood for operation of the Subject SWD to contribute to seismicity in the areas is minimal, at best.

Exhibit 1. Seismic AOI Map with Deep SWDs, seismic events, faults, structural contours of the Precambrian basement in feet below sea level (Horne et al., 2021). Faults within the 6-mile Seismic AOI are colored based on probability of fault slip as modeled using Fault Slip Potential software (Walsh and Zoback, 2016).

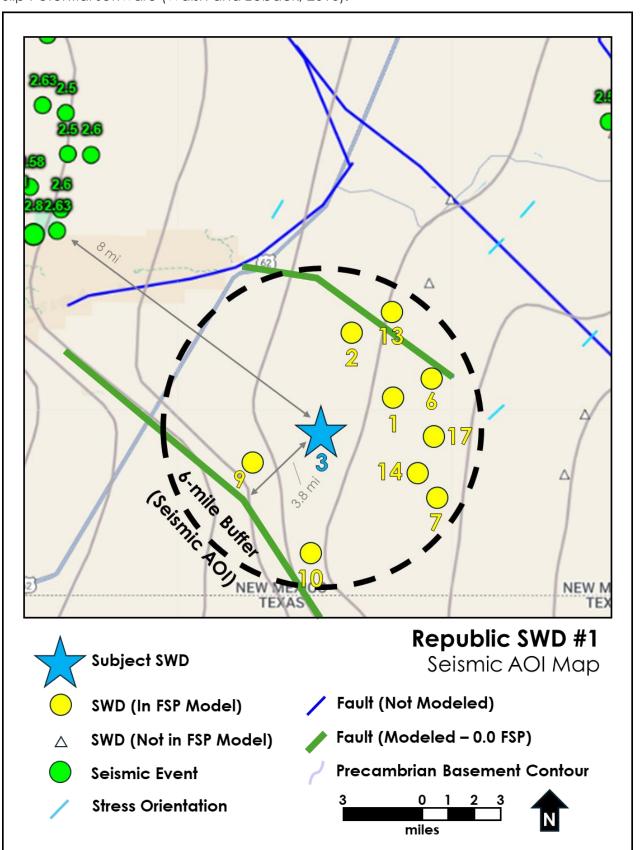


Exhibit 2. FSP Model SWD & Injection Rate Inputs

ID	Operator	Well Name	Status	Modeled Rate (BWPD)	API#	Order#	Latitude	Longitude
1	Blackbuck	Justice SWD #1	Pending	40,000*	N/A	N/A	32.107441	-104.275712
2	Blackbuck	Independence SWD #1	Pending	40,000*	N/A	N/A	32.142649	-104.302793
4	Blackbuck	Republic SWD #1	Pending	40,000*	N/A	N/A	32.088073	-104.322637
7	Delaware Energy	Johelen SWD #1	Active	20,373**	015-44866	SWD-1720	32.052482	-104.247543
9	Solaris	Pine Springs 2 State SWD #1	Active	7,918**	015-42348	SWD-1474	32.071434	-104.366783
10	3-Bear Energy	Cottonwood Fee SWD #1	Active	12,553	12,553	SWD-1736	32.021423	-104.328926
13	Select Water Solutions	Ringer Federal 36	Active	3,679**	015-33187	SWD-1343	32.15502	-104.276535
8	Delaware Energy	Hood SWD #1	Active	16,952**	015-44851	SWD-1732	32.215370	-104.239006
14	Solaris	Cottonwood 2 State SWD #1	Active	10,211**	015-42356	SWD-1473	32.065628	-104.259948
16	Blackbuck	Patriot State SWD #1	Approved	25,000*	015-50206	SWD-2466	32.138134	-104.2033997

^{*}Proposed maximum injection rate (no injection history)

Exhibit 3. FSP Model Geologic Inputs

Faults	Value	Notes/Source
Friction Coefficient	0.58	Hennings et. Al. (2021)
Dip Angle	70	Horne et al. (2021)
Stress	Value	Notes/Source
Vertical Stress Gradient	1.06	Hurd and Zoback (2012)
Max Horizontal Stress Direction (deg)	35	Snee and Zoback (2018)
Depth for Calculation	13,000	Proposed Injection Zone
Initial Reservoir Pressure Gradient (psi/ft)	0.48	calculated from mud weight (ppg) used in drilling at these depths
A Phi Parameter	0.52	Snee and Zoback (2018)
Reference Friction Coefficient	0.7	Hennings et. al. (2021)
Hydrology/Formation Characteristics	Value	Notes/Source
Reservoir Thickness (ft)	1,201	Proposed Injection Zone, Devonian-Silurian
Porosity (%)	7	Ruppel and Holtz (1994)
Permeability (mD)	5	Ruppel and Holtz (1994)
Injection Rate (bbl/day)	40,000	Maximum Proposed Injection Rate
Fluid Density (kg/m3)	1,100	Salt Water Density
Fluid Compressibility (/Pa)	4 e-10	
Rock Compressibility (/Pa)	1.08 e-09	

^{**}Highest reported monthly average injection rate

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Exhibit 4: Basement Fault Model Characteristics and Results

Fault Number with highest FSP	distance to proposed SWD (mi)	Strike (deg)	Dip (deg)	FSP (2047)		▲ Pore Pressure needed for 100% FSP (psi)	
Fault 3	4.7	298	70	0	220	4500	3600
Fault 2	4	315	70	0	52		

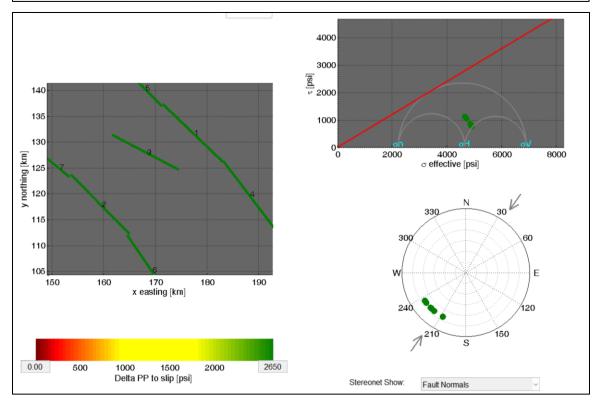
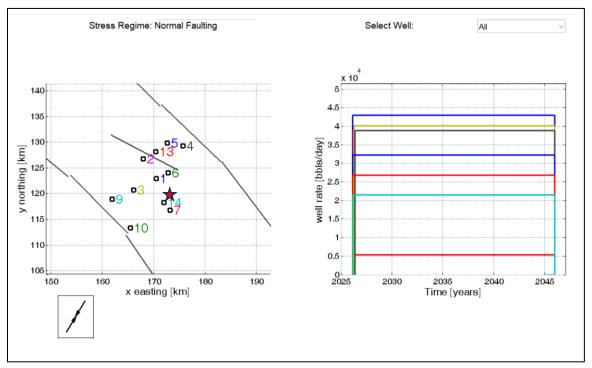
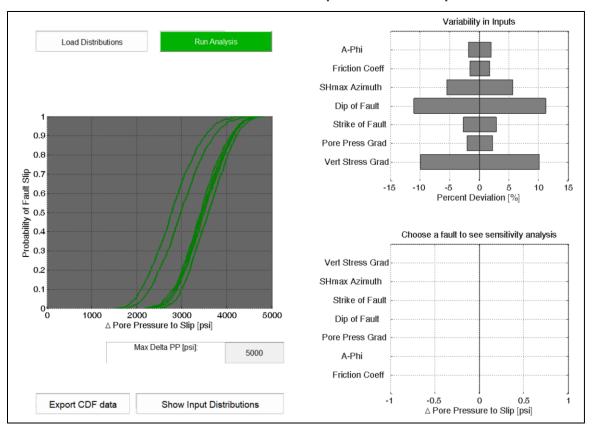


Exhibit 5. FSP Model Fault & SWD Inputs to the Stanford FSP software showing the proximity of the Subject SWD (Red Star) to modeled SWD locations and injection rates, modeled injection rates of modeled SWDs, modeled faults within Seismic AOI, and stress orientation of 35 degrees.



4000 3000 140 2000 135 1000 130 y northing [km] 150 4000 6000 8000 o effective [psi] 115 300 110 105 170 x easting [km] 150 180 190 120 150 0.00 2650 500 1000 1500 2000 Delta PP to slip [psi] Stereonet Show Fault Normals

Exhibit 7: Pore Pressure Required for Fault Slip





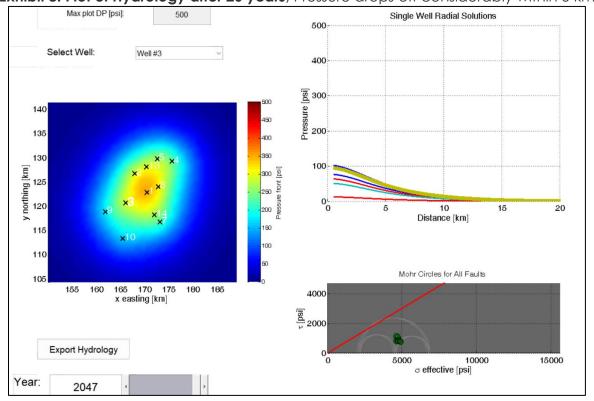


Exhibit 9: Year 5 Fault Slip Probability (0% on all faults after 5 years)

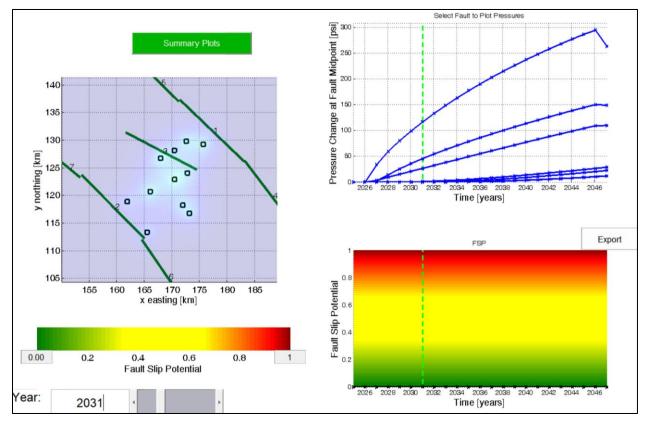


Exhibit 10: Year 10 Fault Slip Probability (0% on all faults after 5 years)

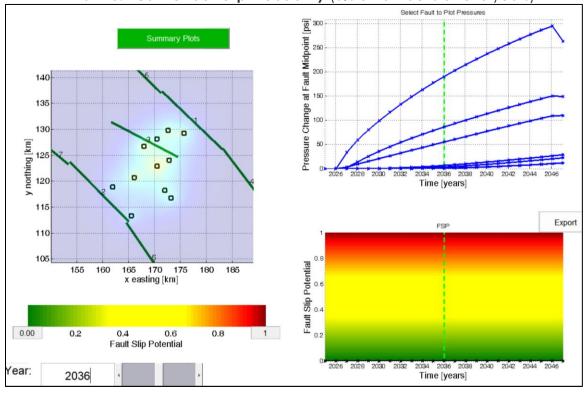


Exhibit 11: Year 15 Fault Slip Probability (0% on all faults after 5 years)

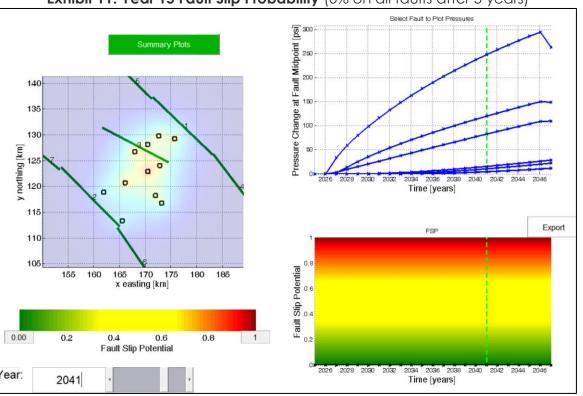
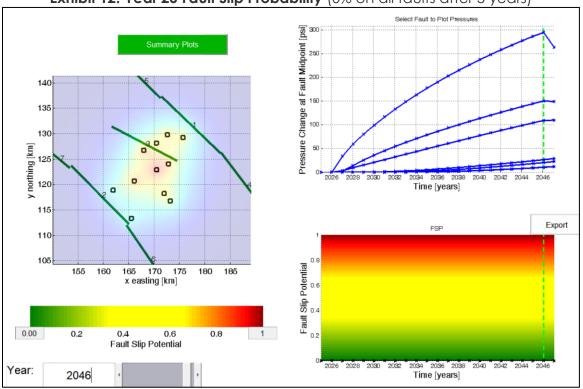


Exhibit 12: Year 20 Fault Slip Probability (0% on all faults after 5 years)



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Attachment 7

Statement of Affected Person Notification

A copy of the C-108 application has been provided to the following Affected Persons as notification of the subject Application for Authorization to Inject (C-108).

Entity Name	Entity Address	Mailing Date		
Site Surface Owner				
David & Laverne Maley	PO Box 519	09/19/2025		
,	Carlsbad, NM, 88220			
Applicable Mineral Owners Oil and Gas Division				
Bureau of Land Management	620 E Greene St.	09/19/2025		
	Carlsbad, NM 88220	03/13/2023		
State Land Office	602 N Canal, Suite B	00/40/2025		
State Land Office	Carlsbad, NM 88220	09/19/2025		
	OCD District Office			
OCD – District 2	506 W. Texas Ave.	09/19/2025		
CCD Dietriot E	Artesia, NM 88210	00/10/2020		
Leaseholders within 1-Mile AOR				
EOG Resources Inc	5509 Champions Drive Midland, TX 79706	09/19/2025		
	3608 Crestview Dr			
Panhandle Properties LLC	Artesia, NM 88210	09/19/2025		
Cimaray Enargy	6001 Deauville Blvd, Ste. 300 N	00/10/2025		
Cimarex Energy	Midland, TX 79706	09/19/2025		
Powderhorn Assets	600 N Marienfeld St., Ste. 1000	09/19/2025		
	Midland, TX 79701			
Echo Production Inc.	P.O. Box 1210 Graham, TX 76450	09/19/2025		
	1700 Lincoln St. Suite 4700			
Tap Rock Resources	Denver, CO 80203	09/19/2025		
Permian Resources Operating	300 N Marienfeld St., Ste. 1000	09/19/2025		
	Midland, TX 79701	09/19/2023		
Tilden Capital Operating	P O Box 4168	09/19/2025		
	Roswell, NM 88202 1707 La Cima Rd			
Cerro Rico Ranches LLC	Artesia, NM 88210	09/19/2025		
Well Operators within AOR				
COG Operating LLC	600 W Illinois Ave	09/19/2025		
COG Operating LLC	Midland, TX 79701	03/13/2023		
EOG Resources Inc	5509 Champions Drive	09/19/2025		
	Midland, TX 79706			

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Bureau of Land Management Oil and Gas Division 620 E Greene St Carlsbad NM 88220-6292

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EOG Resources Inc 5509 Champions Dr Midland TX 79706-2843

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Cimarex Energy 6001 Deauville Ste 300 Midland TX 79706-2671 Nathan Alleman Ace Energy Advisors 501 Se Fph Blvd Ste 201 BARTLESVILLE OK 74003-3931

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Panhandle Properties LLC 3608 Crestview Dr Artesia NM 88210

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Powderhorn Assets 600 N Marienfeld St Ste 1000 Midland TX 79701-4491

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Echo Production Inc. PO Box 1210 Graham TX 76450-1210

Nathan Alieman Ace Energy Advisors 501 Se Fph Blvd Ste 201 BARTLESVILLE OK 74003-3931

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Permian Resources Operating, LLC 300 N Marienfeld St Ste 1000 Midland TX 79701-4688

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being duly sworn, sayes that he is the

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Publisher

County of Eddy:

Adrian Hedden

of the Carlsbad Current Argus, a weekly newspaper of general circulation, published in English at Carlsbad, said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Carlsbad Current Argus, a weekly newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

Consecutive weeks/day on the same day as follows: First Publication September 18, 2025

Second Publication Third Publication Fourth Publication Fifth Publication Sixth Publication Seventh Publication **Eighth Publication**

Subscribed ans sworn before me this

18th

day of

Septermber

2025

LATISHA ROMINE Notary Public, State of New Mexico Commission No. 1076338 My Commission Expires 05-12-2027

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Blackbuck Resources, LLC, 3200 Southwest Freeway, Houston, TX 77027, (OGRID# 373619), is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for commercial saltwater injection into its Republic SWD #1. This will be a new well located 2,034 FNL & 291 FWL in Section 32 Township 25S Range 26E in Eddy County, NM, which is approximately 6.8 miles SE of Whites City. The purpose of the well is to inject produced water from permitted oil and gas wells in the area for commercial disposal into the Devonian-Silurian formation at depths of 12,589'- 13,790' at a maximum surface injection pressure of 2,517 psi and a maximum injection rate of 40,000 barrels of water per day.

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. Additional information may be obtained by contacting the operator contact, Nate Alleman, at (918) 237-0559 or info@aceadvisors.com.

63280-Published in Carlsbad Current Argus Sept. 18, 2025.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 511889

CONDITIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	511889
	Action Type:
	[C-108] Fluid Injection Well (C-108)

CONDITIONS

Created By	Condition	Condition Date
erica.gordan	None	10/10/2025