

Additional Information

Received: 4/24/2026

From: [Goetze, Phillip, EMNRD](#)
To: [Doug, Delilah, EMNRD](#)
Subject: 1 of 5 Forwarded Blackbuck - Supplemental C-108 Information Submittal
Date: Tuesday, July 14, 2026 2:07:23 PM
Attachments: [Ballard SWD #1 - OCD Follow-up Submittal Package.pdf](#)
[Allegiance Federal SWD #1 - OCD Follow-up Submittal Package.pdf](#)
[Justice SWD #1 - OCD Follow-up Submittal Package.pdf](#)
[Resolve State SWD #1 - OCD Follow-up Submittal Package.pdf](#)
[Independence SWD #1 - OCD Follow-up Submittal Package.pdf](#)
[Republic SWD #1 - OCD Follow-up Submittal Package.pdf](#)

Multiple attachments. He has provided the application info below. PRG

From: Nate Alleman <nate.alleman@aceadvisors.com>
Sent: Friday, April 24, 2026 3:47 PM
To: Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Sandoval, Stacy, EMNRD <Stacy.Sandoval@emnrd.nm.gov>
Subject: [EXTERNAL] Blackbuck - Supplemental C-108 Information Submittal

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Tony,

Based on OCD's comments in recent Administrative Completeness Checklists, Blackbuck submits the attached supplemental information for the six (6) applications listed below. Each package includes a cover letter that describes what supplemental information is being submitted for each application and why.

- **Ballard SWD #1** (pSYS2605432926; SWD-2688)
- **Resolve State SWD #1** (pSYS2605434916; SWD-2689)
- **Allegiance Federal SWD #1** (pEG2528351636; SWD-2677)
- **Independence SWD #1** (pEG2528350873; SWD-2676)
- **Justice SWD #1** (pEG2528350098; SWD-2675)
- **Republic SWD #1** (pEG2528352412; SWD-2678)

Please let me know if you have any questions or need any additional information.

Thank You!

Nate Alleman
Regulatory Advisor
Ace Energy Advisors
C. 918.237.0559
E. nate.alleman@aceadvisors.com



April 24, 2026

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

Subject: Blackbuck Resources, LLC; Republic SWD #1 (SWD-2678; pEG2528352412)
C-108 Supplemental Submittal

OCD Director,

The purpose of this letter is to submit supplemental information associated with Blackbuck Resources, LLC's (Blackbuck) C-108 application for the proposed Republic SWD #1 (SWD-2678; pEG2528352412). This information is being provided to address OCD's comments in a recent Administrative Completeness Checklist. A list of the updates to the application is included below.

- **Revise from Open-Hole to Cased-Hole:** Revised completion from Open-Hole to Cased-Hole and updated the liner depth and cement volumes in the Tabulated Casing Data and Wellbore Diagram (WBD) accordingly.
 - see **Attachment A** for Updated Tabulated Casing Data (p. 3) and Updated WBD (p. 5)
- **No Underlying USDW Statement:** Added a Statement to the Geology Data clarifying that "No USDWs were identified underlying the proposed injection interval."
 - See **Attachment A** for the Underlying USDW Statement (p.4)
- **Distance to Nearest Completed Horizontal Wellbore:** Evaluated the distance to the nearest Completed Horizontal Wellbore based on data from Enverus and created a map to confirm and demonstrate that the nearest Completed Horizontal Wellbore is greater than 330' from the Surface Hole Location of the proposed SWD.
 - See **Attachment B** for Horizontal Wellbore Proximity Map (p. 7)
- **Water Well Sampling Update:** Efforts to contact water well owners and collect water well samples are ongoing. Once the available water well samples have been collected, or attempts to contact the water well owners have been exhausted, an updated water well sampling table and the associated analytical lab results will be submitted to OCD.

Questions regarding 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,

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

Nate Alleman
Chief Regulatory Advisor
Ace Energy Advisors

Attachment A

Proposed SWD Data and Wellbore Diagram

Well Data**Operator** - Blackbuck New Mexico LLC**Lease/Well Name & Number** - Republic SWD #1**Legal Location** - 2,034' FNL & 291' FWL - Unit E – Section 32 R25S T26E – Eddy County**Coordinates** - 32.088073,-104.322637**Casing Data**

Casing String	Hole Size (in)	Casing Size (in)	Casing Depth (ft)	Sacks Cement (sx)	Top of Cement (ft)	Method Determined
Surface	26"	20"	250'	438	Surface	Circulation
1 st Intermediate	17-1/2"	13-3/8"	1,746'	974	Surface	Circulation
2 nd Intermediate	12-1/4"	9-5/8"	10,463'	2,620	Surface	Circulation
Liner	8-3/4"	7-5/8"	9,459' - 13,790'	318	9,459'	Calculation - circulate to top of liner

Tubing: 7" x 5-1/2" fiberglass-coated tubing set at 12,569'**Packer:** Baker SC-2 or equivalent set at 12,569'**Geology Data****Injection Formation Name** - Devonian-Silurian**Pool Name** - SWD; Devonian-Silurian**Pool Code** – 97869**Injection Interval** - Cased-hole injection between 12,589' - 13,790'**Drilling Purpose** - New drill for injection**Other Perforated Intervals:** No other perforated intervals exist.**Overlying Oil and Gas Zones:**

- Delaware (1,773')
- Bone Spring (5,186')
- Wolfcamp (8,336')

Overlying Oil and Gas Zones:

- None

Geologic Description of Injection Interval:**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. The cased 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 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.

Groundwater

Although a true Underground Source of Drinking Water (USDW) isn't known to exist in the area of the proposed SWD, domestic and livestock water well data indicate the deepest fresh water-bearing strata in the area occurs at depths of less than 200 ft. With the top of the proposed injection interval at 12,589 ft, there is expected to be approximately 12,389 ft of vertical separation between the injected fluid and the deepest fresh water-bearing strata, including the 139 ft thick permeability barrier immediately overlying the injection interval. In addition to the geologic isolation, the fresh water resources will be further isolated and protected by surface casing that will be set at approximately 250 ft (approximately 50 ft below the deepest known fresh water-bearing strata) and cemented to surface.

No USDWs were identified underlying the proposed injection interval.

Operational Data

Proposed Maximum Injection Rate: 40,000 BWPD

Proposed Average Injection Rate: 30,000 BWPD

Proposed Maximum Injection Pressure: 2,517 psi (surface)

Proposed Average Injection Pressure: 2,000 psi (surface)

Prepared By:



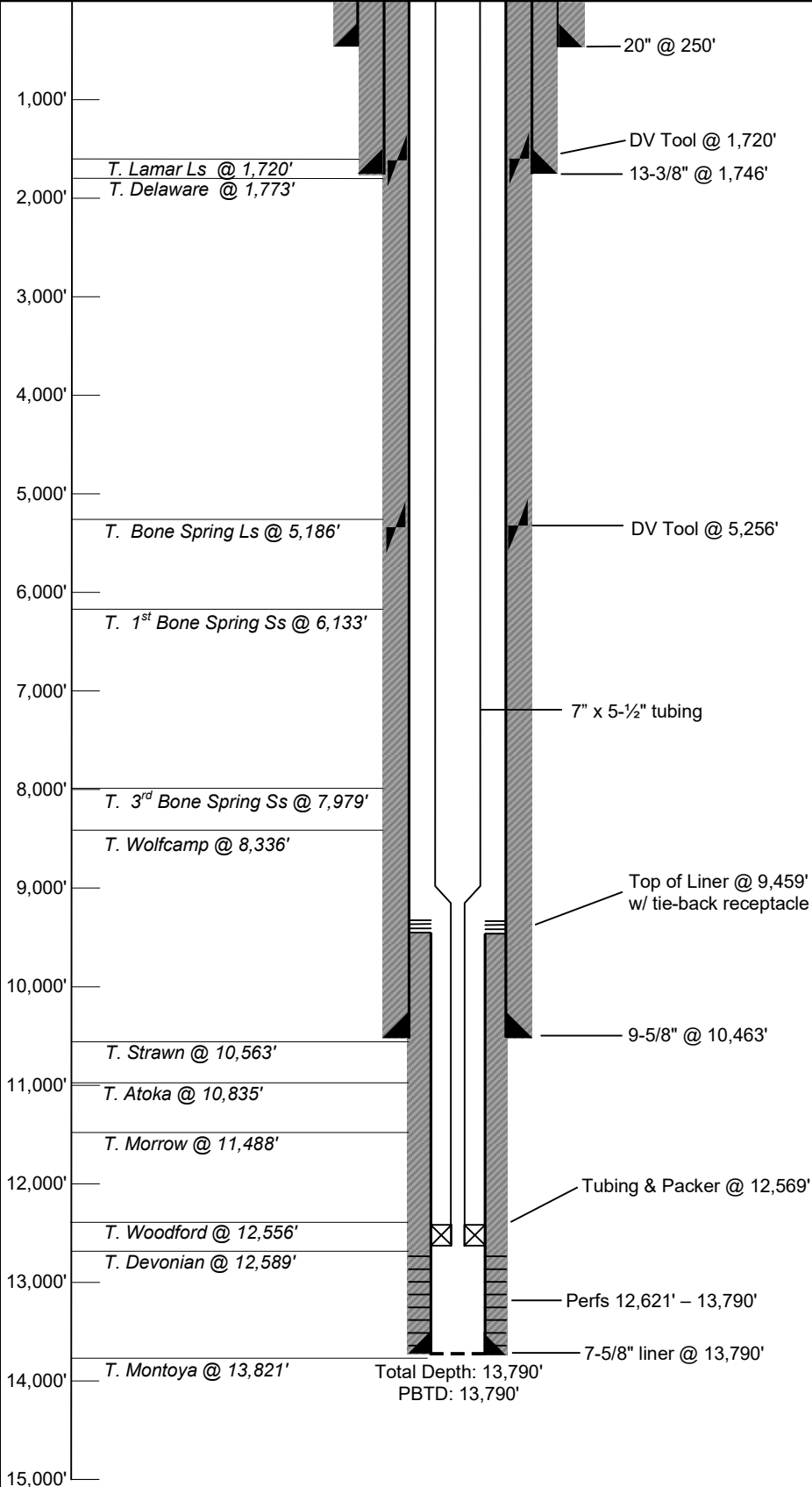
Republic SWD #1

Proposed Wellbore Diagram

Prepared For:



Estimated Formation Depth Picks

**Surface Casing**

Casing Size: 20 in
Casing Type: 94 lb/ft J-55
Casing Depth: 250 ft
Hole Size: 26 in
Top of Cement: Surface
Sks Cement: 438 sx
Cement Type: Class C

1st Intermediate Casing

Casing Size: 13-3/8 in
Casing Type: 61 lb/ft J-55 BTC
Casing Depth: 1,746 ft
Hole Size: 17-1/2 in
Top of Cement: Surface
Sks Cement: 974 sx
Cement Type: Class C

2nd Intermediate Casing

Casing Size: 9-5/8 in
Casing Type: 53.5 lb/ft P110
Casing Depth: 10,463 ft
Hole Size: 12-1/4 in
Top of Cement: Surface
Sks Cement: 2,620 in 3 stages
Cement Type: Class C

Liner

Casing Size: 7-5/8 in
Casing Type: 29.7 lb/ft HCL-80
Casing Depth: 9,459 ft - 13,790 ft
Hole Size: 8-3/4 in
Top of Cement: 9,570 ft
Sks Cement: 318 sx
Cement Type: Class C

Injection Tubing & Packer

Tubing Size: 7" x 5 1/2 in
Tubing Type: 29# x 15.5# fiberglass lined
Tubing Depth: 12,569 ft
Packer Type: Baker SC-2 or equivalent
Packer Depth: 12,569 ft

Injection Interval

Formation(s): Devonian-Silurian
Top: 12,589 ft
Bottom: 13,790 ft
Hole size: 7-5/8 in
Cased or Open-Hole: Cased-Hole

Notes:

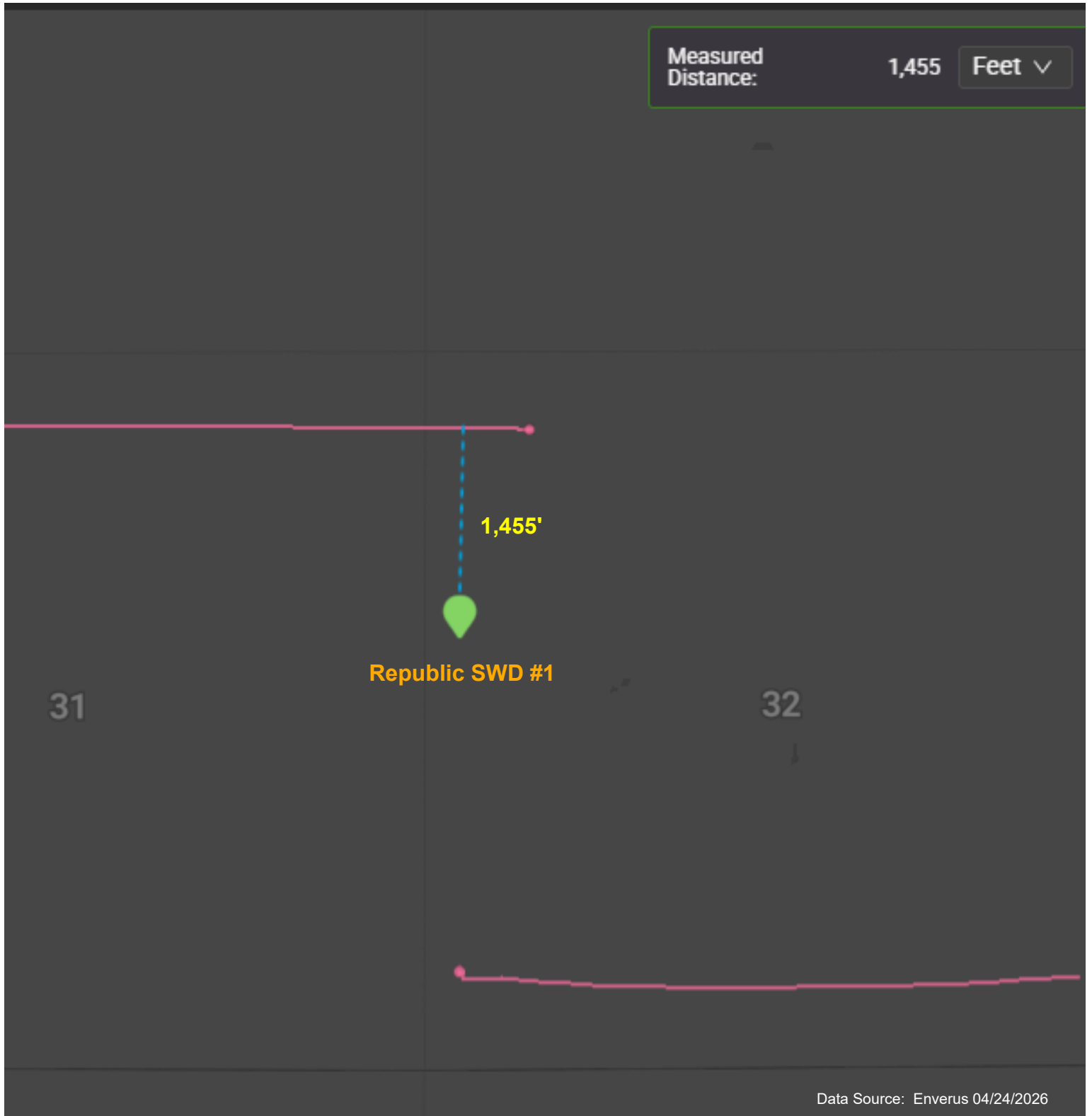
- Listed depths are measured from ground surface.
- Depths and cement volumes are estimates based on evaluation of the available information.

NOT TO SCALE

Attachment B

Horizontal Wellbore Proximity Evaluation

Republic SWD #1 - Distance to Adjacent Horizontal Wellbores



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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 605802

CONDITIONS

Operator: NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE 1220 S St Francis Dr Santa Fe , NM 87504	OGRID: 264235
	Action Number: 605802
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
delilah.dougi	None	7/17/2026