

# Initial Application Part I

Received: 12/11/2019

*This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete*



December 10, 2019

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

Subject: Vista Disposal Solutions, LLC – Bryon Federal SWD #1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Vista Disposal Solutions, LLC (Vista), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Byron Federal SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Dan Arthur at (918) 382-7581 or [darthur@all-llc.com](mailto:darthur@all-llc.com).

Sincerely,  
ALL Consulting

Dan Arthur  
President/Chief Engineer

CITC7-191211-C-1080

Revised March 23, 2017

RECEIVED: 12/11/19	REVIEWER: BLL	TYPE: SWD	APP NO: pBL1934546759
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & 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

Applicant: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

1) **TYPE OF APPLICATION:** Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

SWD-2349

B. Check one only for [ I ] or [ II ]

[ I ] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[ II ] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX☐ PMX☐ SWD☐ IPI☐ EOR☐ PPR2) **NOTIFICATION REQUIRED TO:** Check those which apply.A. ☐ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☐ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☐ Notification and/or concurrent approval by BLMF. ☐ Surface ownerG. ☐ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐ Notice Complete
☐ Application  
 Content  
 Complete

3) **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.

Print or Type Name

Signature



Date

Phone Number

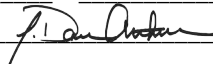
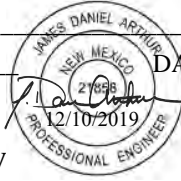
e-mail Address

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: Vista Disposal Solutions, LLC  
ADDRESS: 12444 NM 10th St., Building G, Suite 202-512, Yukon, OK 73099  
CONTACT PARTY Nate Alleman PHONE: 918-382-7581
- 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: Dan Arthur, P.E., SPEC TITLE: President/Chief Engineer  
SIGNATURE:  DATE: 12/10/2019  
E-MAIL ADDRESS: darthur@all-llc.com
- XV. If the information required under Sections VI, V  has been previously submitted, it need not be resubmitted.  
Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

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

Side 2

### III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

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

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

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

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

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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.

# Attachments

**Attachment 1:**

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- 1/2-mile Well Detail List w/ Casing Information for the Penetrating Wells
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** No Hydrologic Connection Statement & Technical Assessment & Feasibility for Injection

**Attachment 7:** Public Notice Affidavit and Notice of Application Confirmations

Application for Authorization to Inject  
Well Name: Bryon Federal SWD #1

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

#### A.

##### (1) General Well Information:

Operator: Vista Disposal Solutions, LLC (OGRID No. 329051)  
Lease Name & Well Number: Bryon Federal SWD #1  
Location Footage Calls: 1,810' FSL & 271' FWL  
Legal Location: Unit Letter L, S32 T25S R35E  
Ground Elevation: 3,284'  
Proposed Injection Interval: 5,330' – 6,175'  
County: Lea

##### (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	925'	940	Surface	Circulation
Intermediate 1	14-3/4"	13-3/8"	68.0 lb/ft	5,280'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	53.5 lb/ft	6,275'	360	5,200'	CBL

##### (3) Tubing Information:

5.5" (20# N-80 LTC) of fiberglass-coated injection tubing with setting depth of 5,310'

(4) Packer Information: Baker Hornet or equivalent packer set at 5,310'

#### B.

##### (1) Injection Formation Name: Bell Canyon

Pool Name: SWD; BELL CANYON

Pool Code: 96769

(2) Injection Interval: Cased hole injection between 5,330' – 6,175'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: No overlying oil and gas zones exist.

Underlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Bone Springs (9,305')

### V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- 1/2-mile Well Detail List w/ Casing Information for the Penetrating Wells
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are five wells that penetrate the injection zone, and they have been properly cased and cemented to isolate the injection zone. The casing & cementing information for these wells is included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 25,000 bpd  
**Proposed Average Injection Rate:** 12,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Surface Injection Pressure:** 1,066 psi (based on 0.2 psi per foot)  
**Proposed Average Surface Injection Pressure:** approximately 750 psi
- (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 Bell Canyon Formation which is a non-productive zone known to be compatible with formation water from the Wolfcamp and Bone Springs Formations. Water analyses results were selected from intervals comparable to that of the injection zone in the Bell Canyon Formation - Delaware Mountain Group. Water analysis from in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the Bell Canyon Formations from 5,330 – 6,175 feet. This formation consists of clastic sandstones, interbedded with several tight limestone members. Several thick sections of porous sandstone capable of taking water are present within the subject formation in the area.

The base of the deepest Underground Source of Drinking Water (USDW) is at a depth of approximately 900 feet. Surface casing will be set at a depth of 925 feet, which is 25 feet below the top of the Rustler Formation, which isolates the USDW. Geophysical log assessment was conducted to accurately determine the top of the Rustler Formation, and the top and the base of the Salado Formation in this area. Water well depths in the area range from approximately 50 - 270 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

Geophysical logs will be submitted to the Division upon completion of the well.



## **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, there are no groundwater well located within 1-mile of the proposed SWD location; therefore, no groundwater samples were collected in association with this application.

A water well map of the area is included in **Attachment 5**.

## **XII – No Hydrologic Connection Statement & Technical Assessment & Feasibility for Injection**

ALL Consulting (ALL) has examined all available public and published geologic and engineering data, and has found no evidence of open faults or any other hydrologic connection between the injection interval and overlying Underground Sources of Drinking Water (USDWs). Additionally, the casing, cementing, and completion program has been designed to further ensure that there will be no hydrologic connection, nor will it allow for migration of injectate below the proposed injection interval that could affect correlative rights issues.

Additionally, ALL Consulting has conducted an extensive technical review and geologic assessment of the alleged New Mexico Oil Conservation Division Delaware Mountain Group (DMG) saltwater disposal well impacts to production wells and drilling operations associated with the Brushy Canyon Formation. A letter from ALL's qualified geological expert not only addresses the issue of no hydrologic connection, but also states that the Bell Canyon Formation includes viable injection intervals with multiple confining zones is included in **Attachment 6**.

## **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News - Sun 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**.

**Attachment 1**

- C-102
- Wellbore Diagram

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 96769	<sup>3</sup> Pool Name SWD; Bell Canyon
<sup>4</sup> Property Code	<sup>5</sup> Property Name Byron Federal SWD	<sup>6</sup> Well Number 1
<sup>7</sup> GRID No. 329051	<sup>8</sup> Operator Name Vista Disposal Solutions, LLC	<sup>9</sup> Elevation 3284'

<sup>10</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	32	25-S	35-E		1810'	South	271'	West	Lea

<sup>11</sup>Bottom Hole Location If Different From Surface

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

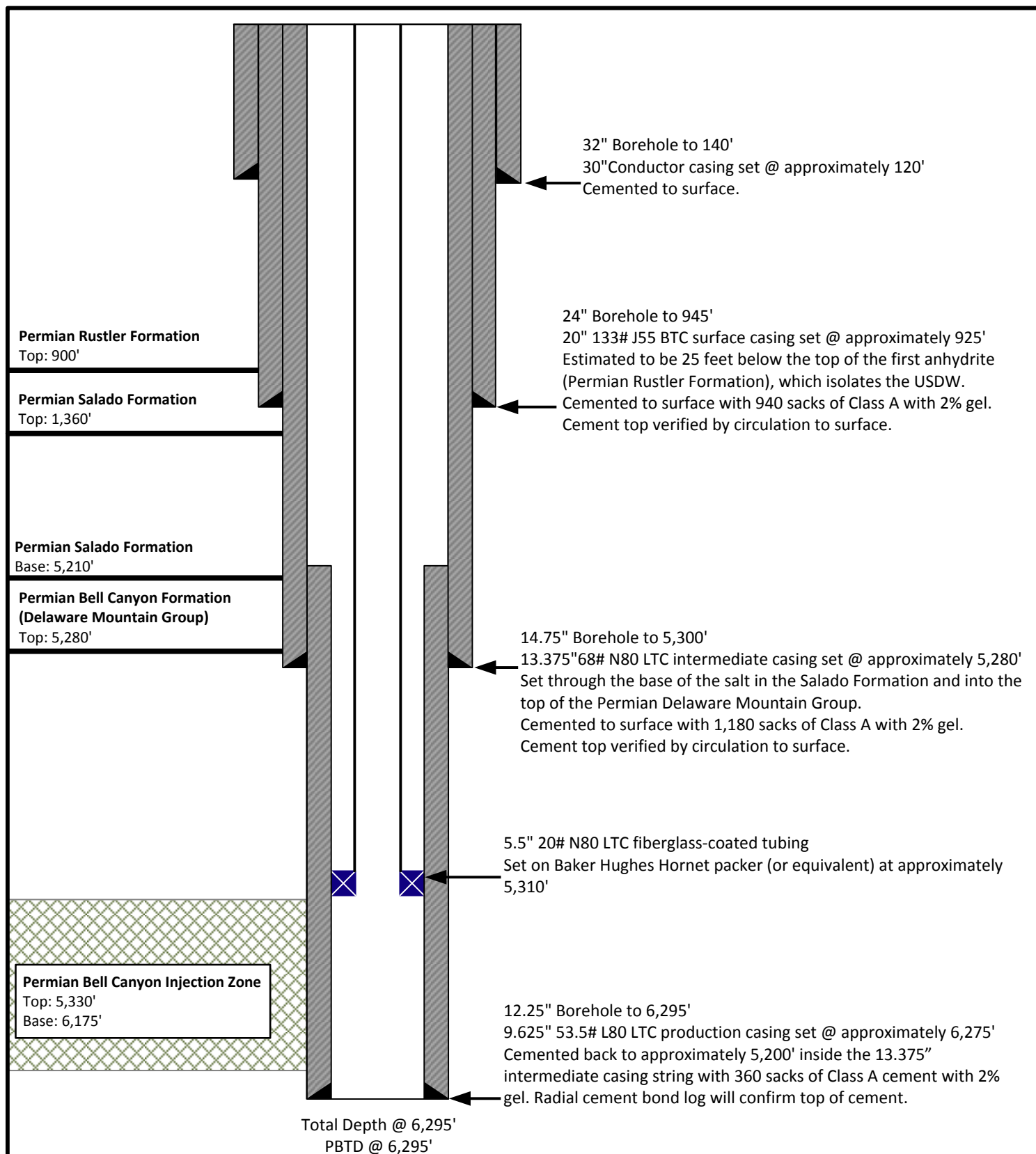
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.

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

	<p><b>17 OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Nate Alleman</i>      <b>12/10/2019</b> Signature      Date</p> <p><b>Nate Alleman</b> Printed Name</p> <p><b>nalleman@all-llc.com</b> E-mail Address</p>
	<p><b>18 SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>10-25-2019 Date of Survey</p> <p><i>Michael L. Stanford</i> Signature and Seal of Professional Surveyor</p> <p><b>10324</b> Certificate Number</p>

12.1 Miles W-SW of Jal, New Mexico.

File No. A-12933



NOT TO SCALE

*Note: Listed depths and cement volumes are approximates based on available information. All cement calculations use yield of 1.18 cubic foot per sack and include 40% excess.*



Drawn by: Joshua Ticknor

Project Manager:  
Dan Arthur

Date: 11/25/2019

**Vista Disposal Solutions, LLC**  
**Byron Federal SWD #1**

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

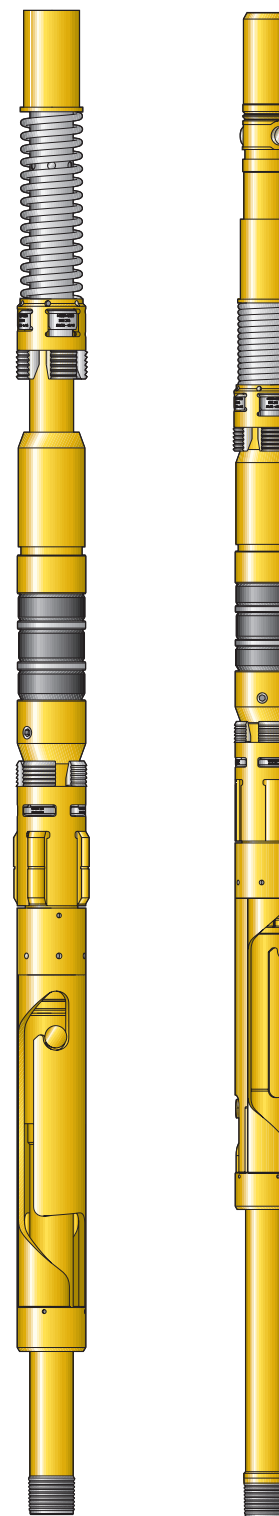
Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
- Patented enhancements to control overboost
- High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



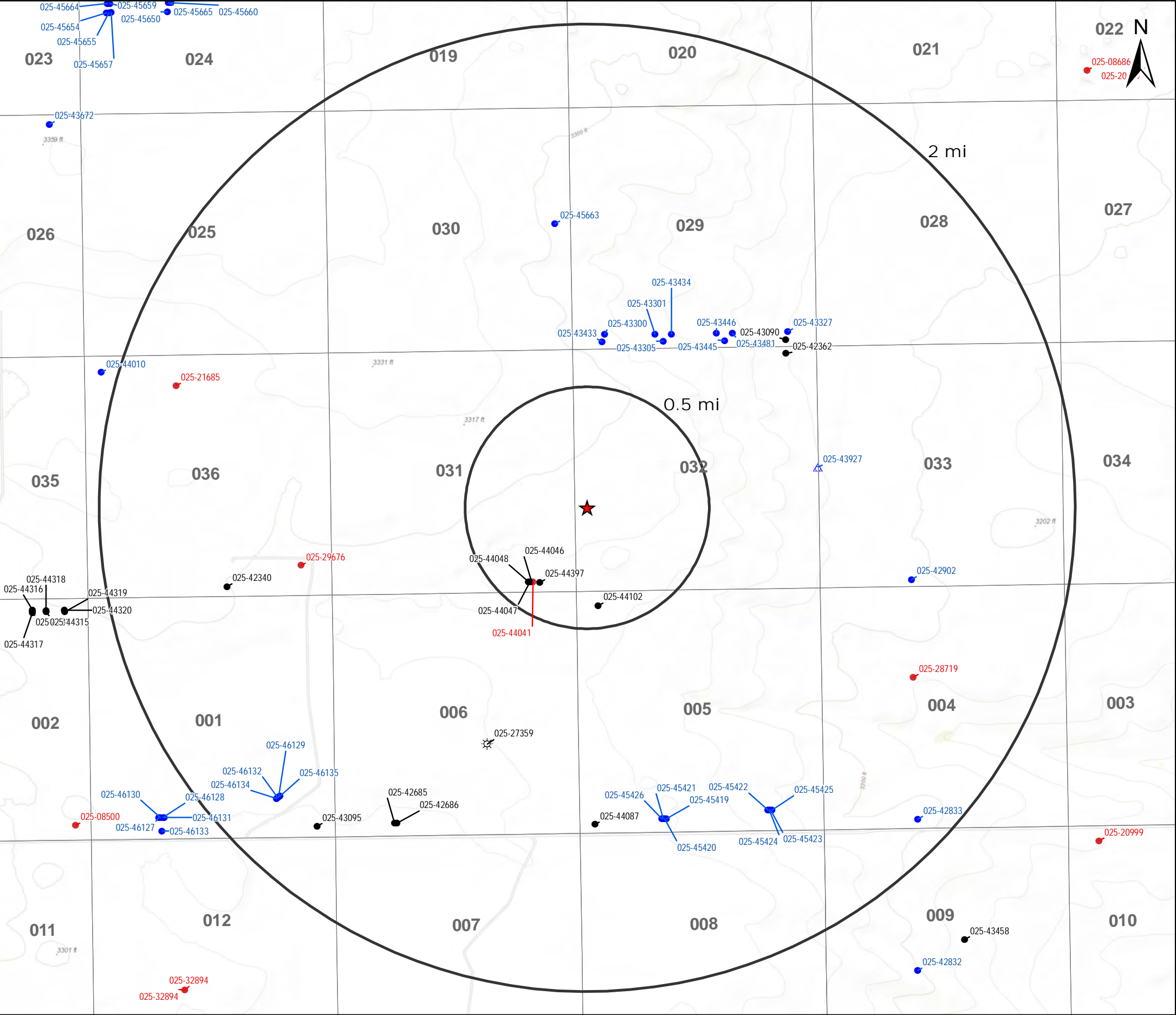
HORNET Packer  
Product Family  
No. H64682

HORNET EL Packer  
Product Family  
No. H64683

## **Attachment 2**

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- 1/2-mile Well Detail List w/ Casing Information for the Penetrating Wells
- Potash Lease Map



Legend

- ★ Proposed SWD
- ☼ Gas, Active (1)
- Oil, Active (20)
- Oil, New (40)
- Oil, Plugged (9)
- △ Salt Water Injection, New (1)

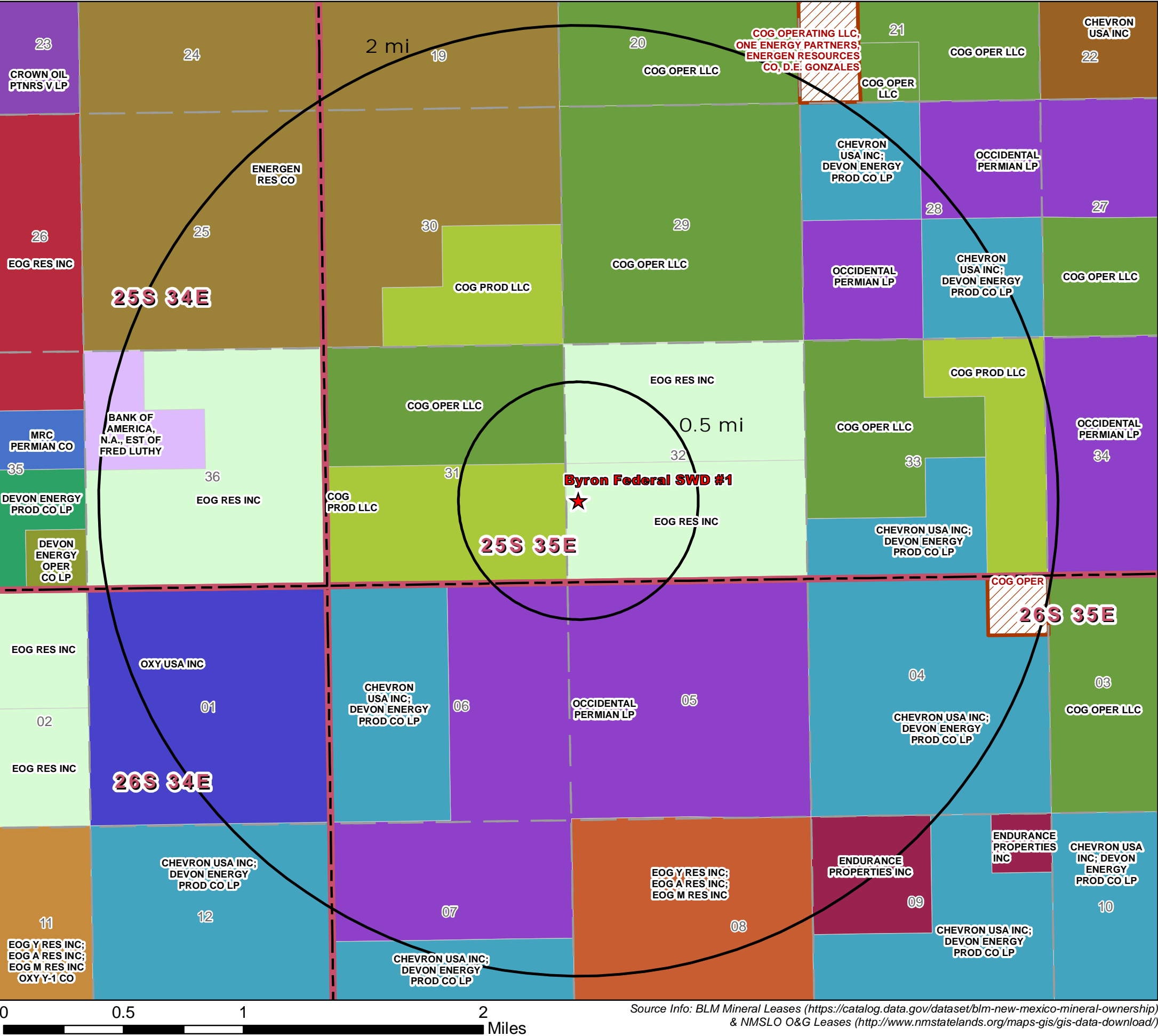
Source Info: NMOCD O&G Wells updated 7/30/2019  
(<http://www.emnrd.state.nm.us/OCD/ocdgis.html>)

O&G Wells Area of Review		
Byron Federal SWD #1 Lea County, New Mexico		
Proj Mgr: Dan Arthur	November 22, 2019	Mapped by: Ben Bockelmann
Prepared for: 		Prepared by: 



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





**Legend**

- ★ Proposed SWD
- Private Mineral Leases

**BLM Mineral Leases**

- CHEVRON USA INC
- CHEVRON USA INC; DEVON ENERGY PROD CO LP
- COG OPER LLC
- COG PROD LLC
- CROWN OIL PTNRS V LP
- DEVON ENERGY OPER CO LP
- DEVON ENERGY PROD CO LP
- ENDURANCE PROPERTIES INC
- ENERGEN RES CO
- EOG RES INC
- EOG Y RES INC; EOG A RES INC; EOG M RES
- EOG Y RES INC; EOG A RES INC; EOG M RES INC OXY Y-1 CO
- MRC PERMIAN CO
- OCCIDENTAL PERMIAN LP
- OXY USA INC

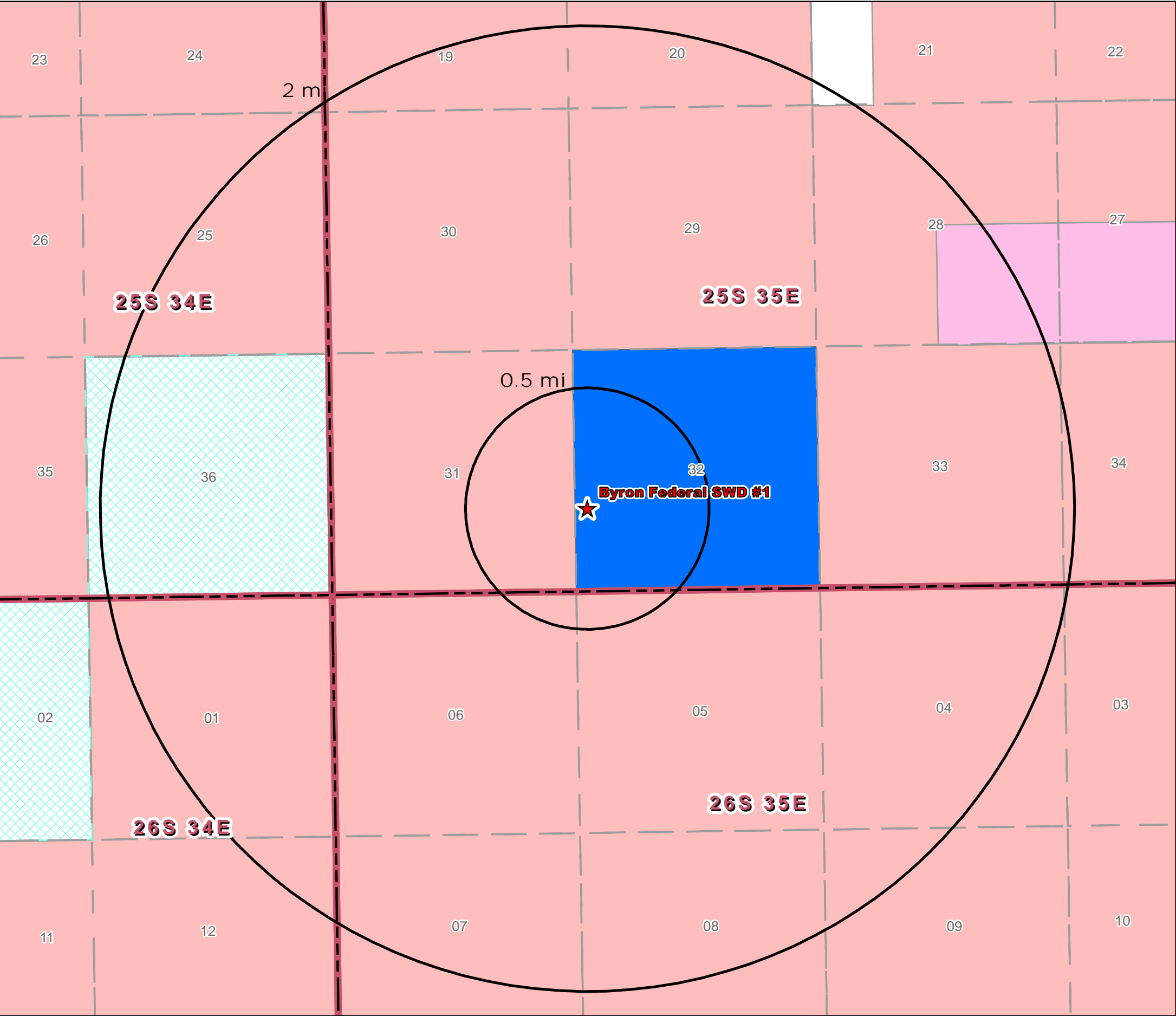
**NMSLO Mineral Leases**

- BANK OF AMERICA, N.A., EST OF FRED LUTHY
- EOG RES INC

Mineral Lease Area of Review		
Byron Federal SWD #1 Lea County, New Mexico		
Proj Mgr: Dan Arthur	November 22, 2019	Mapped by: Ben Bockelmann
Prepared for: 		Prepared by: 

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





**Legend**

★ Proposed SWD

**Mineral Ownership**

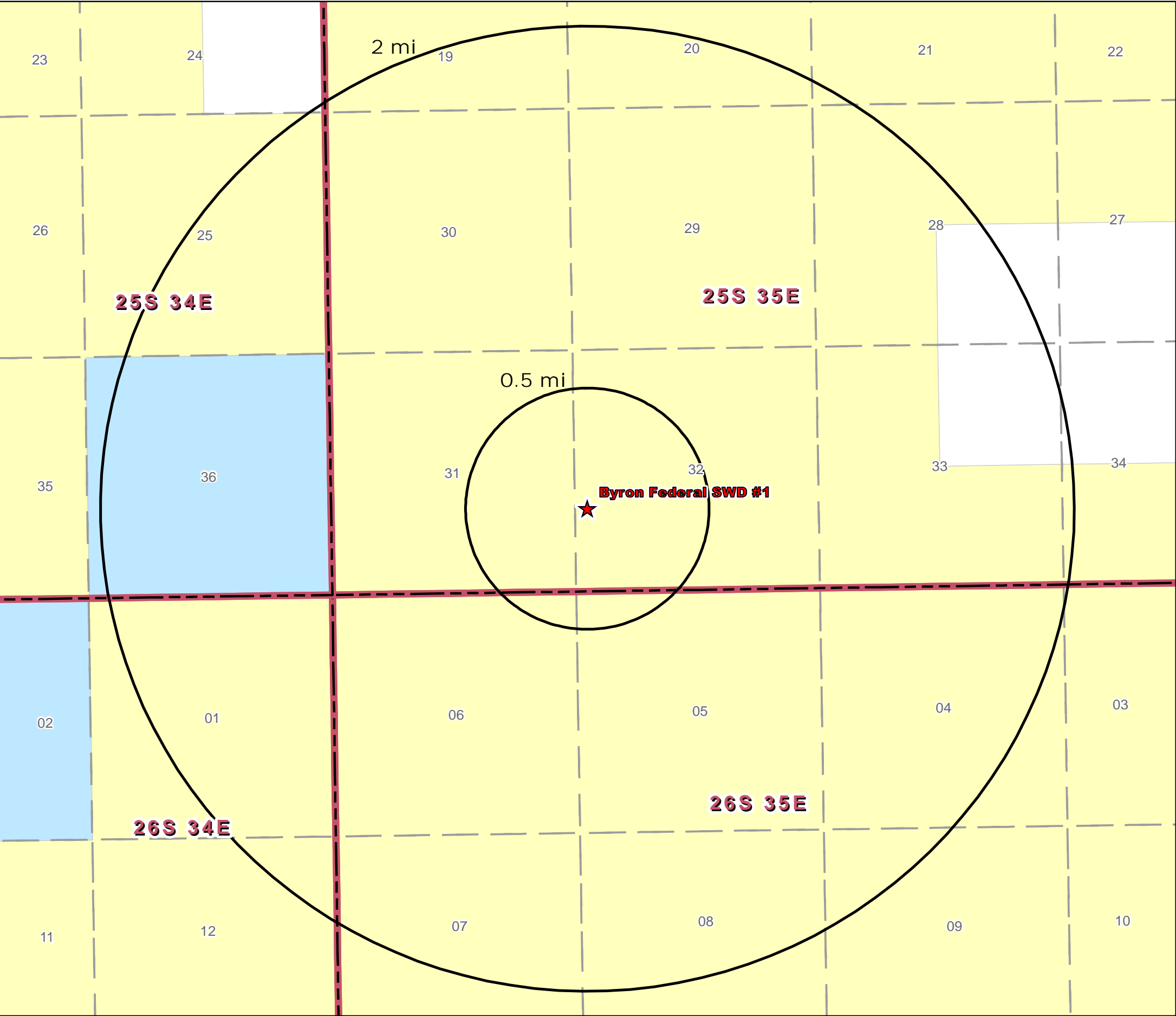
- All minerals are owned by U.S. (BLM)
- Other minerals are owned by the U.S. (BLM)
- Subsurface minerals (NMSLO)
- Surface and Subsurface minerals (NMSLO)
- Private minerals



Mineral Ownership Area of Review		
Byron Federal SWD #1 Lea County, New Mexico		
Proj Mgr: Dan Arthur	December 06, 2019	Mapped by: Ben Bockelmann
Prepared for: 		Prepared by: 

0 0.5 1 2 Miles

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



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



**Legend**

★ Proposed SWD

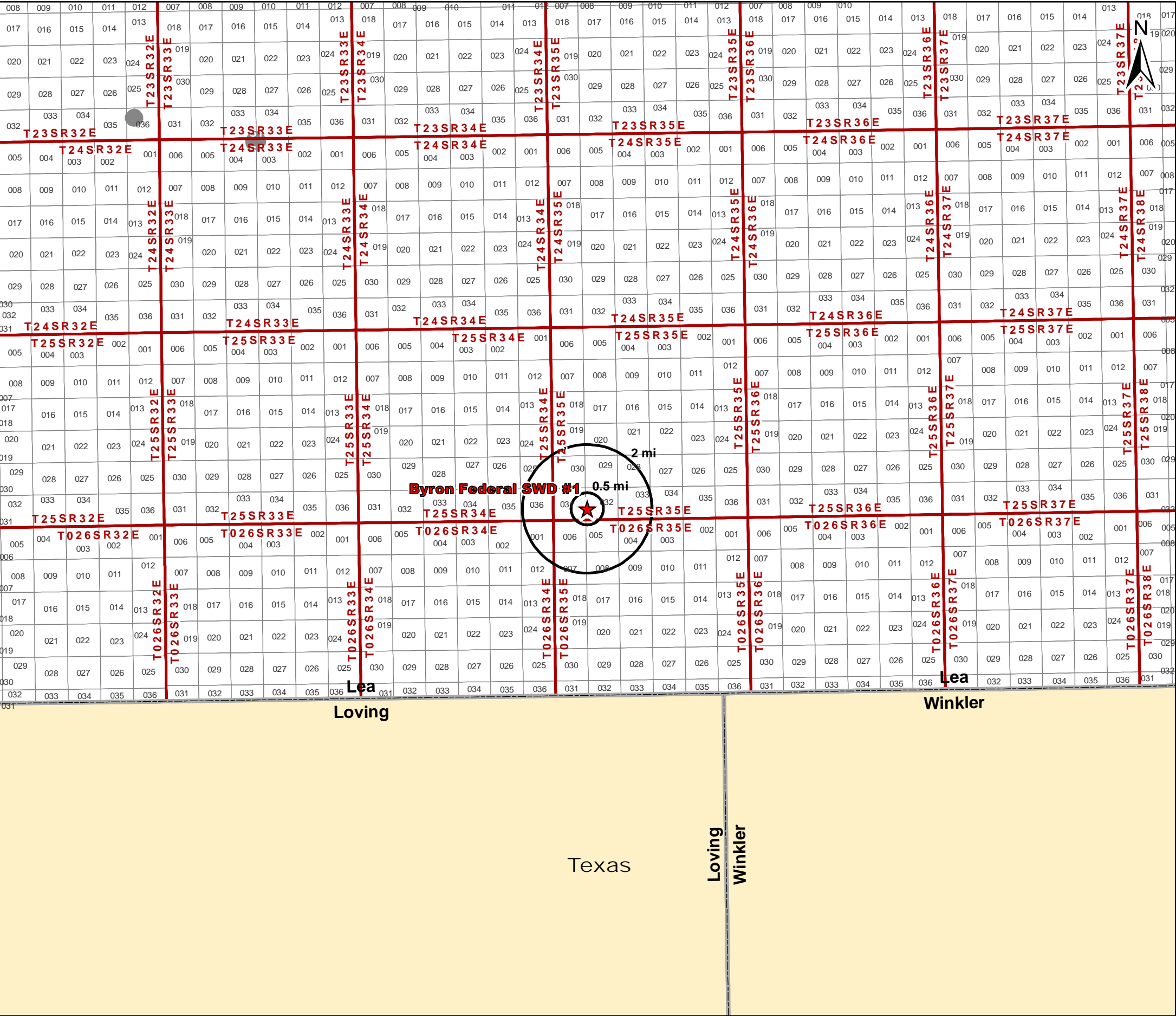
**Surface Ownership**

- BLM
- Private
- State

Surface Ownership Area of Review		
Byron Federal SWD #1 Lea County, New Mexico		
Proj Mgr: Dan Arthur	November 22, 2019	Mapped by: Ben Bockelmann
Prepared for: 		Prepared by: 

AOR Tabulation for Byron Federal SWD #1 (Top of Injection Interval: 5,330')							
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
CAVE LION 5 WA FEDERAL #005H	30-025-44102	O	MARATHON OIL PERMIAN LLC	10/31/2017	M-05-265-35E	12636	Yes
SQUARE BILL FEDERAL COM #001H	30-025-44046	O	COG OPERATING LLC	11/30/2017	P-31-255-35E	12412	Yes
SQUARE BILL FEDERAL COM #021	30-025-44041	Plugged	COG OPERATING LLC	12/12/2017	P-31-255-35E	1175 (Lost hole during drilling)	No
SQUARE BILL FEDERAL COM #023H	30-025-44048	O	COG OPERATING LLC	11/3/2017	O-31-255-35E	12202	Yes
SQUARE BILL FEDERAL COM #022H	30-025-44047	O	COG OPERATING LLC	11/17/2017	P-31-255-35E	12605	Yes
SQUARE BILL FEDERAL COM #021Y	30-025-44397	O	COG OPERATING LLC	2/20/2018	P-31-255-35E	12630	Yes

Casing Information for Wells Penetrating the Bryon Federal SWD #1 Injection Zone												
Well Name	Surface Casing						Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
CAVE LION 5 WA FEDERAL #005H	1077	13 3/8	29	CBL	928	17 1/2	5450	9 5/8	29	CBL	1212	12 1/4
SQUARE BILL FEDERAL COM #001H	1170	10 3/4	G.S.	Circulation	1094 (Class C)	13 1/2	11803	7 5/8	G.S.	Circulation	2150 (Class C), DVT @ 5367'	9 7/8
SQUARE BILL FEDERAL COM #023H	1105	10 3/4	G.S.	Circulation	850 (Class C)	13 1/2	11825	7 5/8	G.S.	Circulation	1825 (Class C), DVT @ 5376'	9 7/8
SQUARE BILL FEDERAL COM #022H	1148	10 3/4	G.S.	Circulation	850 (Class C)	13 1/2	11805	7 5/8	G.S.	Circulation	1950 (Class C), DVT @ 5396'	9 7/8
SQUARE BILL FEDERAL COM #021Y	1155	10 3/4	G.S.	Circulation	1000 (Class C)	14 3/4	11890	7 5/8	G.S.	Circulation	1950 (Class C), DVT @ 5329'	9 7/8
Well Name (Well Information Continued)	Production Casing & Intermediate II Casing						Liner/ Tubing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
CAVE LION 5 WA FEDERAL #005H	11835	7	1032	CBL	1186	8 3/4	11,800 - 17286	4 1/2	11525	CBL	562	6 1/8
SQUARE BILL FEDERAL COM #001H	19780 (KOP 11908')	5.5 (GS-11,299'), 5 (11,299-19,780')	G.S.	Circulation	1800 (Class C)	6 3/4	11456	2 7/8	N/A	N/A	N/A	N/A
SQUARE BILL FEDERAL COM #023H	20110 (KOP 12121')	5.5 (GS-11,285'), 5 (11,285-20,110')	G.S.	Circulation	1565 (Class H)	6 3/4	11457	2 7/8	N/A	N/A	N/A	N/A
SQUARE BILL FEDERAL COM #022H	20115 (KOP 12149')	5.5 (GS-11,319'), 5 (11,319-20,115')	G.S.	Circulation	1600 (Class C)	6 3/4	11502	2 7/8	N/A	N/A	N/A	N/A
SQUARE BILL FEDERAL COM #021Y	20025 (KOP 12099)	5.5 (GS-11,425'), 5 (11,425-20,025')	G.S.	Circulation	1675 (Class C)	6 3/4	11587	2 7/8	N/A	N/A	N/A	N/A



**Legend**

★

Proposed SWD

Ore Type - Indicated

Potash Leases  
Area of Review

Byron Federal SWD #1  
Lea County, New Mexico

Proj Mgr:  
Dan Arthur

November 25, 2019

Mapped by:  
Ben Bockelmann

Prepared for:  
 VISTA  
DIGITAL SOLUTIONS, LLC

Prepared by:  
 ALL CONSULTING

**Attachment 3**

Source Water Analyses

Wolfcamp



## 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	Lee	New Mexico

Sample Source

Swab Sample

Sample #

1

Formation

Depth

Specific Gravity 1.170

SG @ 60 °F

1.172

pH 6.30

Sulfides

Absent

Temperature (°F) 70

Reducing Agents

## Cations

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

## Anions

Chlorides	in Mg/L	130,000	in PPM	110,922
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 - 10,000,000 Possible / Above 10,000,000 Probable

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

Remarks

RW=.048@70F

Report #

3188



Sec 22, T25S, R28E

Bone Spring

## Water Analysis Report by Baker Petrolite

North Permian Basin Region

P.O. Box 740

Sundown, TX 79372-0740

(806) 229-8121

Lab Team Leader - Sheila Hernandez

(432) 495-7240

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

Summary		Analysis of Sample 534665 @ 75 F					
Sampling Date:	03/10/11	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	03/18/11	Chloride:	109618.0	3091.92	Sodium:	70275.7	3056.82
Analyst:	SANDRA GOMEZ	Bicarbonate:	2135.0	34.99	Magnesium:	195.0	18.04
TDS (mg/l or g/m3):	184911.1	Carbonate:	0.0	0.	Calcium:	844.0	42.12
Density (g/cm3, tonne/m3):	1.113	Sulfate:	747.0	15.55	Strontium:	220.0	5.02
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.8	0.01
		Borate:			Iron:	6.5	0.23
		Silicate:			Potassium:	889.0	22.22
Carbon Dioxide:	0.50 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		7	Lead:		
					Manganese:	0.100	0.
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.06	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 CO<sub>2</sub> pressure is actually the calculated CO<sub>2</sub> fugacity. It is usually nearly the same as the CO<sub>2</sub> partial pressure.

**Attachment 4**

Injection Formation Water Analyses



Injection Formation Water Analysis																			
Vista Disposal Solutions, LLC - Delaware Mountain Group Formation																			
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Company	Field	Formation	Depth	Tds_mgL	Chloride_mgL	Bicarbonate_mgL	Sulfate_mgL
NORTH EL MAR UNIT #017	3002508430	32.016605	-103.617691	30	26S	33E	E	1880N	660W	LEA	NM		EL MAR	DELAWARE	4742	254756	159400	80	210
NORTH EL MAR UNIT #057	3002508440	32.001946	-103.6131134	31	26S	33E	F	1935N	2090W	LEA	NM		EL MAR	DELAWARE	4777	259554	163000	61	253
GOEDEKE #002	3002508407	32.059799	-103.5579987	10	26S	33E	G	1980N	1980E	LEA	NM		SALADO DRAW	DELAWARE	5200	293925	184000	85	210
MARSHALL #001	3002508358	32.284832	-103.6176224	19	23S	33E	M	660S	660W	LEA	NM		CRUZ	DELAWARE	5237	238931	148600	127	156
NORTH EL MAR UNIT #022	3002508278	32.011662	-103.6262207	25	26S	32E	J	1980S	1980E	LEA	NM		EL MAR	DELAWARE	4749	244815	153500	88	220
NORTH EL MAR UNIT #032	3002508291	32.008019	-103.6434479	26	26S	32E	O	660S	1980E	LEA	NM		EL MAR	DELAWARE	4605	254895			
NORTH EL MAR UNIT #028	3002508296	32.011654	-103.6521072	26	26S	32E	L	1980S	660W	LEA	NM		EL MAR	DELAWARE	4565	249479	156000	976	373
NORTH EL MAR UNIT #045	3002508308	32.004387	-103.6381302	35	26S	32E	A	660N	330E	LEA	NM		EL MAR	DELAWARE	4633	255115	160000	85	310
COTTON DRAW UNIT #024	3002508176	32.143189	-103.6650696	10	25S	32E	K	1980S	1980W	LEA	NM		PADUCA	DELAWARE	4787	246555	152600	112	939
COTTON DRAW UNIT #001	3002508182	32.125053	-103.6693573	15	25S	32E	M	660S	660W	LEA	NM		PADUCA	DELAWARE	4804	308600			
COTTON DRAW UNIT #001	3002508182	32.125053	-103.6693573	15	25S	32E	M	660S	660W	LEA	NM		PADUCA	DELAWARE	4804	309990			
MONSANTO STATE #001	3002508196	32.128666	-103.6736145	16	25S	32E	I	1980S	660E	LEA	NM		PADUCA	DELAWARE	4800	224016	138600	139	462
COTTON DRAW UNIT #004	3002508221	32.121422	-103.6693649	22	25S	32E	D	660N	660W	LEA	NM		PADUCA	DELAWARE	4685	276839	170500	198	552
G E JORDAN NCT-1 #021	3002508226	32.107822	-103.6704102	27	25S	32E	D	330N	330W	LEA	NM		PADUCA	DELAWARE	4498	239464	147800	64	908
HANAGAN B FEDERAL #001	3002508151	32.212124	-103.6603851	15	24S	32E	O	660S	1980E	LEA	NM		DOUBLE X	DELAWARE	4955	229878	142200	168	491
HANAGAN B FEDERAL #001	3002508151	32.212124	-103.6603851	15	24S	32E	O	660S	1980E	LEA	NM		DOUBLE X	DELAWARE	4955	229709	142100	168	491

**Attachment 5**

Water Well Map and Well Data





**Legend**

★ Proposed SWD

**NMOSE PODs**

**Status**

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

Water Wells Area of Review

Byron Federal SWD #1  
Lea County, New Mexico

Proj Mgr:  
Dan Arthur

November 25, 2019

Mapped by:  
Ben Bockelmann





Note: No water wells are present within 1 mile of the proposed SWD location.

**Attachment 6**  
**No Hydrologic Connection Statement & Technical**  
**Assessment & Feasibility for Injection**



December 10, 2019

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

Subject: Vista Disposal Solutions, LLC – Hydrologic Connection Statement

To Whom It May Concern:

The purpose of this letter is to affirm that ALL Consulting (ALL), on behalf of Vista Disposal Solutions, LLC (Vista), has conducted an extensive technical review of the available geologic and engineering data and finds no evidence of open faults or any other hydrologic connection between the proposed Bell Canyon Formation disposal zone and any underground sources of drinking water.

Additionally, please find attached ALL's Technical Assessment and Feasibility document addressing injection into the Bell Canyon Formation at the proposed disposal well location.

Sincerely,

*Tom Tomastik*

Tom Tomastik, CPG  
Chief Geologist  
ALL Consulting



## **VISTA DISPOSAL SOLUTIONS**

### **TECHNICAL ASSESSMENT AND FEASIBILITY FOR INJECTION INTO THE BELL CANYON FORMATION OF THE DELAWARE MOUNTAIN GROUP**

ALL Consulting (ALL) has conducted an extensive technical review and geological assessment of the alleged New Mexico Oil Conservation Division (OCD) Delaware Mountain Group (DMG) saltwater disposal well (SWD) impacts to production wells and drilling operations associated with the Brushy Canyon Formation of the DMG in the Lea County, New Mexico area. This technical review included evaluation and analysis of the OCD DMG Cases and technical data submitted by both Chevron and Occidental (OXY) in defense of their disposal operations into the Bell Canyon and Cherry Canyon formations in Eddy County. OCD found in favor of both Chevron and OXY to continue disposal operations at their injection wells with additional technical requirements and testing. ALL is providing the following technical information in support of allowing the permitting of new disposal operations by Vista Disposal Solutions, LLC (Vista) into the Bell Canyon Formation (Bell Canyon).

- ALL will be submitting permit applications for Vista to dispose of oilfield waste fluids into only the Bell Canyon of the DMG.
- All disposal operations will be cased hole with perforations.
- There is approximately 600 to 800 feet of viable injection interval within the Bell Canyon with porosities ranging from 12 to 28% and averaging approximately 18%. These zones are consistent with the Bell Canyon across the area of interest (AOI) for Vista.
- All these proposed injection intervals show resistivity readings less than 10 ohm/meters, which is indicative of natural brine in the formation, so there is adequate porosity and permeability.
- Proposed bottom perforations would be approximate 100 to 150 feet above the top of the Cherry Canyon Formation and at least 1,500 to 1,600 feet above the top of the Brushy Canyon Formation.
- ALL has identified three to four consistent confining zones within the bottom of the Bell Canyon that have low porosities and high resistivities indicating that these zones will serve as barriers to downward fluid migration.
- There is no oil and gas production from the Bell Canyon or Cherry Canyon formations within a two-mile radius of the proposed SWD and there are adequate barriers and rock thickness to prevent fluid migration into the Brushy Canyon Formation.
- Injection pressures will be limited to the regulatory approved maximum allowable surface pressure based on 0.2 psi per foot.
- If OCD requires additional downhole testing requirements like was required in the Chevron and Oxy cases, Vista would be willing to perform the OCD required downhole testing such as initial pressure fall-off testing, radioactive tracer and temperature surveys,

and record original bottom hole pressures to further demonstrate the technical feasibility of injection into the Bell Canyon.

- The potential for over pressurization of this injection interval can be addressed with the spacing of hundreds of perforations into porous and permeable zones within the Bell Canyon, which allows for injectate dispersion and reduces the potential for pressure build-up. Additionally, ALL has found several Bell Canyon SWDs in the OCD records that operated under a vacuum situation.
- With a sound pre-treatment and filtering system at the surface, issues such as skin effect and even potential formation damage can be avoided, which often leads to formation pressure build-up. ALL has extensive experience and expertise with pre-treatment and filtering systems to avoid these issues.
- Additional technical documentation can be provided by ALL if OCD deems additional information is necessary.



**Attachment 7**

Public Notice Affidavit and Notice of Application Confirmations

# Affidavit of Publication


STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

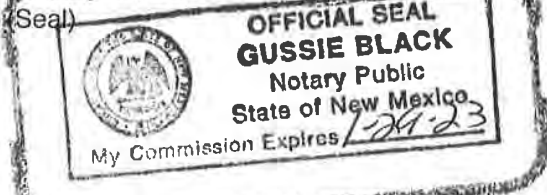
Beginning with the issue dated  
November 22, 2019  
and ending with the issue dated  
November 22, 2019.

  
Publisher

Sworn and subscribed to before me this  
22nd day of November 2019.

  
Business Manager

My commission expires  
January 29, 2023



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL	LEGAL
<b>LEGAL NOTICE</b> <b>NOVEMBER 22, 2019</b>	
<b>APPLICATION FOR AUTHORIZATION TO INJECT</b>	
NOTICE IS HEREBY GIVEN: That Vista Disposal Solutions, LLC, 12444 NW 10th St., Building G, Suite 202-512, Yukon, OK 73099, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:	
<b>PURPOSE:</b> The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.	
<b>WELL NAME AND LOCATION:</b> <u>Byron Federal SWD #1</u> <u>NW 1/4 SW 1/4, Section 32, Township 25S, Range 35E</u> <u>1,810' FSL &amp; 271' FWL</u> <u>Lea County, NM</u>	
<b>NAME AND DEPTH OF DISPOSAL ZONE:</b> <u>Beil Canyon (5,330' - 6,175')</u>	
<b>EXPECTED MAXIMUM INJECTION RATE:</b> <u>25,000 Bbls/day</u>	
<b>EXPECTED MAXIMUM INJECTION PRESSURE:</b> <u>1,086 psi (surface)</u>	
Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.	
Additional information may be obtained by contacting Nate Alleman at 918-382-7581. #34883	

67115320

00236264

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Vista Disposal Solutions, LLC, 12444 NW 10<sup>th</sup> St., Building G, Suite 202-512, Yukon, OK 73099, 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: Byron Federal SWD #1  
NW ¼ SW ¼, Section 32, Township 25S, Range 35E  
1,810' FSL & 271' FWL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: Bell Canyon (5,330' – 6,175')  
EXPECTED MAXIMUM INJECTION RATE: 25,000 Bbls/day  
EXPECTED MAXIMUM INJECTION PRESSURE: 1,066 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

Byron Federal SWD #1 - Notice of Application Recipients				
Entity	Address	City	State	Zip Code
<b>Landowner &amp; Mineral Owner</b>				
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
COG Operating, LLC (COG OPER LLC) (COG OPERATING LLC) (COG PROD LLC)	600 W. Illinois Ave.	Midland	TX	79701
Commision of Public Lands - State Land Office	310 Old Santa Fe Trail	Santa Fe	NM	87501
EOG Resources, LLC (EOG RES INC)	104 S. 4th Street	Artesia	NM	88210
Marathon Oil Permian, LLC (MARATHON OIL PERMIAN LLC)	5555 San Felipe St.	Houston	TX	77056
Occidental Permian, LP (OCCIDENTAL PERMIAN LP)	5 Greenway Plaza, Suite 110	Houston	TX	77046
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 1-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 1-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				

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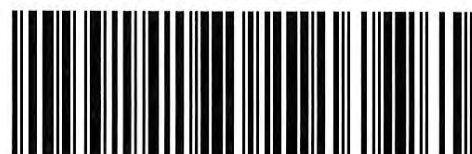
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New Mexico BLM  
620 E Greene St.  
Carlsbad NM 88220-6292

NMOCD District 1  
1625 N. French Drive  
Hobbs NM 88240-9273

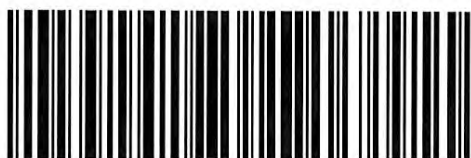
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Occidental Permian, LP  
5 Greenway Plaza, Suite 110  
Houston TX 77046-0521



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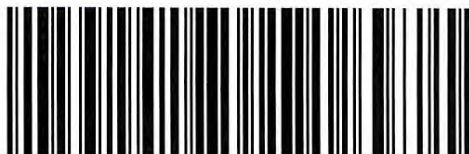
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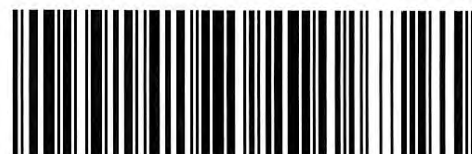
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COG Operating, LLC  
600 W. Illinois Ave.  
Midland TX 79701-4882

State Land Office  
Commission of Public Lands  
310 Old Santa Fe Trail  
Santa Fe NM 87501-2708

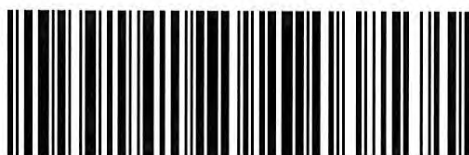
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