

**BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION**

**APPLICATION OF VISTA DISPOSAL SOLUTIONS LLC,  
FOR A SALT WATER DISPOSAL WELL,  
IN LEA COUNTY, NEW MEXICO.**

**Case No.**

**APPLICATION FOR SALT WATER DISPOSAL**

Vista Disposal Solutions LLC, by and through its undersigned attorney, applies for an order approving a salt water disposal well, and in support thereof, states:

1. Applicant seeks an order proposing a salt water disposal well for its Kathy Federal SWD #2, (Pool Code 96769) to be drilled at a location 2,153' FNL and 612' FWL, Unit E, Section 3, Township 26 South, Range 34 East, N.M.P.M., Lea County, New Mexico.
2. Applicant proposes to set a packer at 5,370' feet below the surface of the earth and then inject into the Bell Canyon formation at depths between 5,390' through 6,135' open hole, as stated in the attached C-108.
3. Attached hereto as Exhibit A is the C-108.
4. The granting of this application will prevent waste and protect correlative rights.

**WHEREFORE**, Applicant requests that, after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

PADILLA LAW FIRM, P.A.

/s/ Ernest L. Padilla

ERNEST L. PADILLA

Attorney for Vista Disposal Solutions, LLC

PO Box 2523

Santa Fe, New Mexico 87504

505-988-7577

[padillalaw@qwestoffice.net](mailto:padillalaw@qwestoffice.net)

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: [Signature] DATE: 12/13/2019  
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.

Application for Authorization to Inject  
Well Name: Kathy Federal SWD #2

### 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: Kathy Federal SWD #2  
Location Footage Calls: 2,153' FNL & 612' FWL  
Legal Location: Unit Letter E, S3 T26S R34E  
Ground Elevation: 3,313'  
Proposed Injection Interval: 5,390' – 6,135'  
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	860'	885	Surface	Circulation
Intermediate 1	14-3/4"	13-3/8"	68.0 lb./ft	5,340'	1,200	Surface	Circulation
Production	12-1/4"	9-5/8"	53.5 lb./ft	6,235'	300	5,200'	CBL

#### (3) Tubing Information:

5.5" (20# N-80 LTC) of fiberglass-coated injection tubing with setting depth of 5,370'

(4) Packer Information: Baker Hornet or equivalent packer set at 5,370'

B.

(1) Injection Formation Name: Bell Canyon

Pool Name: SWD; BELL CANYON

Pool Code: 96769

(2) Injection Interval: Perforated injection between 5,390' – 6,135'

(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 (9,415')

### 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 Penetrating Wells
- Penetrating wells – Wellbore Diagram
- 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 nine wells that penetrate the injection zone; seven of the wells are proposed wells that will penetrate the injection zone, and, based on application information, they will be properly cased and cemented to isolate the injection zone. Additionally, there are two plugged wells that penetrate the injection zone that have been plugged & abandoned. Wellbore diagrams and casing & cementing information for these wells are 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:** 1,078 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 5,390 – 6,135 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 835 feet. Surface casing will be set at a depth of 860 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 - 160 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 wells 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 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 7**.

# 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
- Penetrating Wells - Wellbore Diagram
- 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**

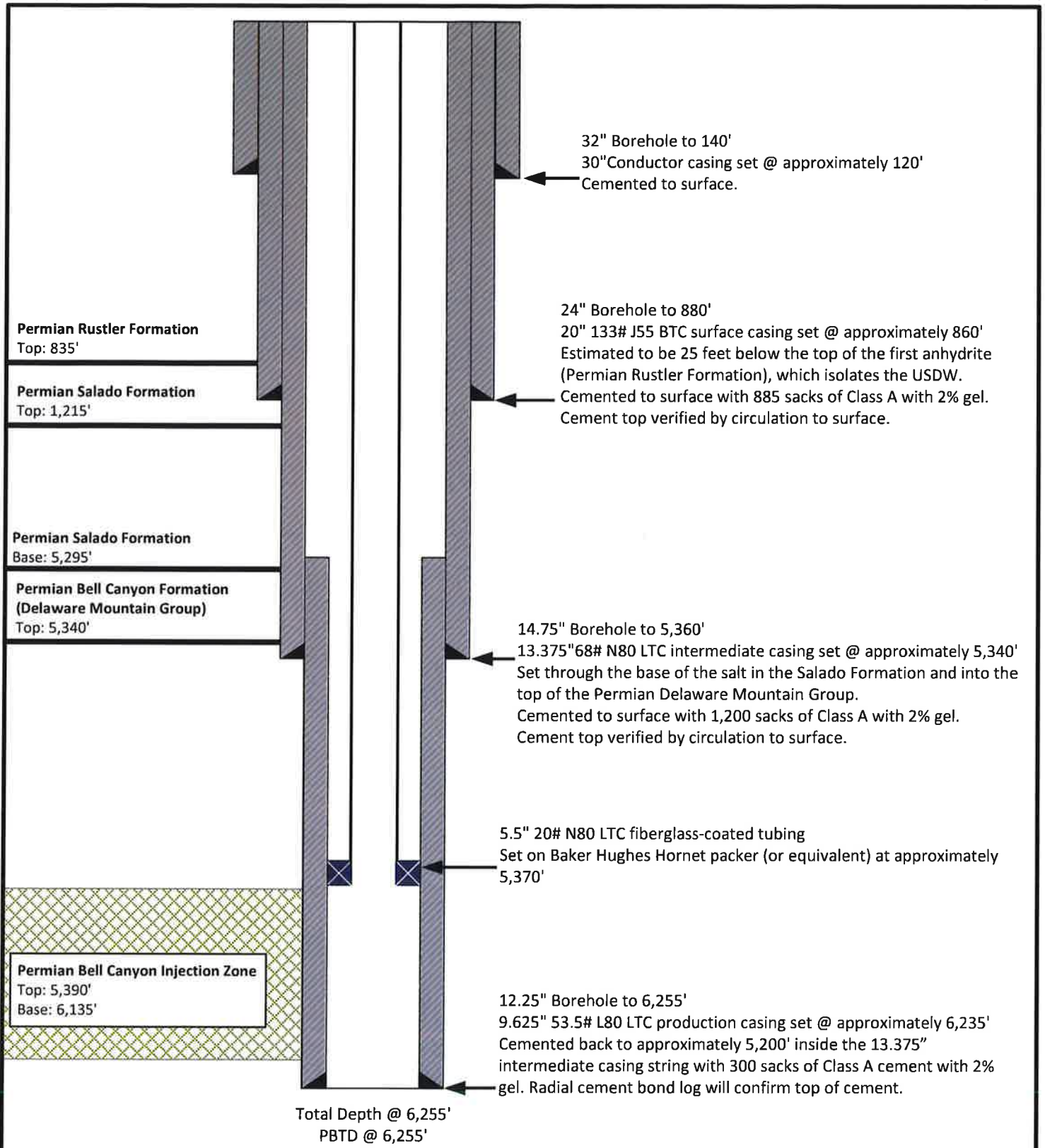
**Attachment 7: Public Notice Affidavit and Notice of Application Confirmations**

**Attachment 1**

- C-102
- Wellbore Diagram







*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.*

NOT TO SCALE

Prepared by:  
**ALLCONSULTING**  
 Prepared for:  
**VISTA**  
OPERATIONAL SOLUTIONS, LLC

Drawn by: Joshua Ticknor

Project Manager:  
 Dan Arthur

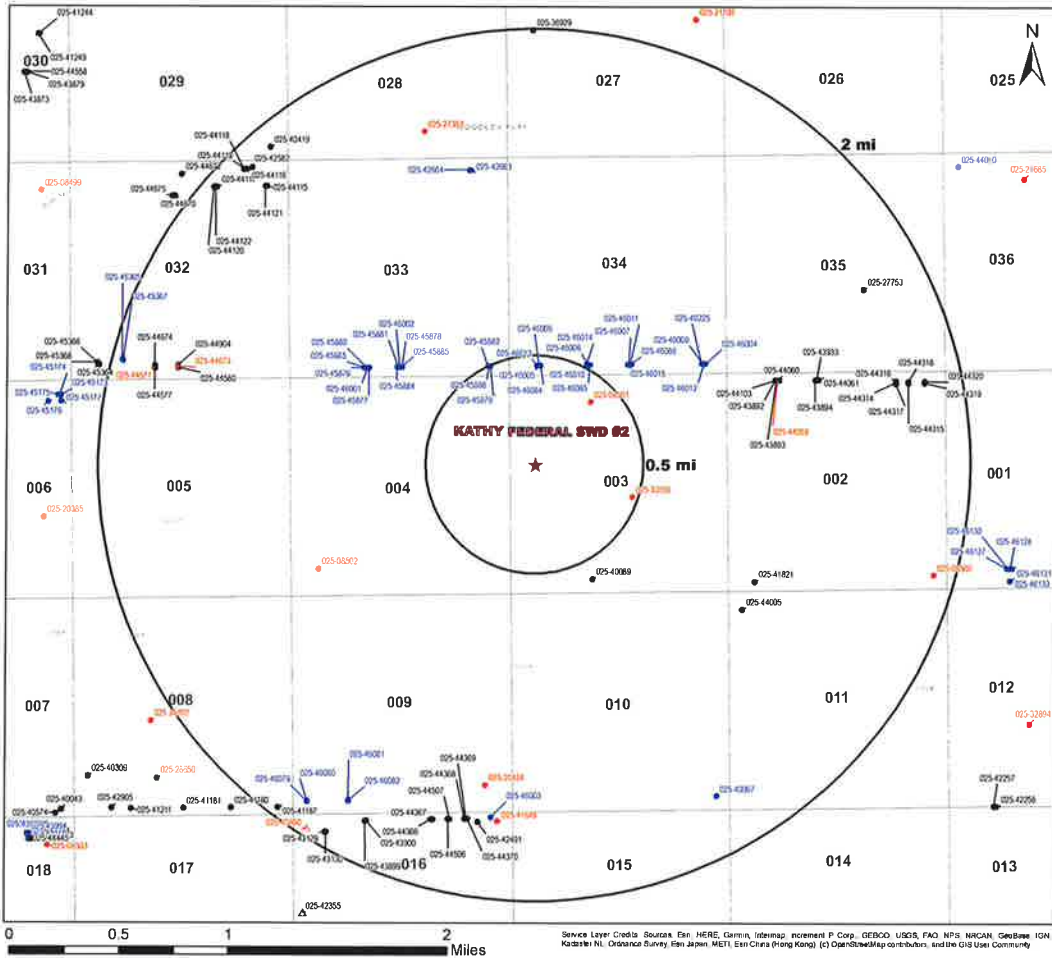
Date: 11/25/2019

**Vista Disposal Solutions, LLC**  
**Kathy Federal SWD #2**

## **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
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- Penetrating Wells - Wellbore Diagram
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**Legend**

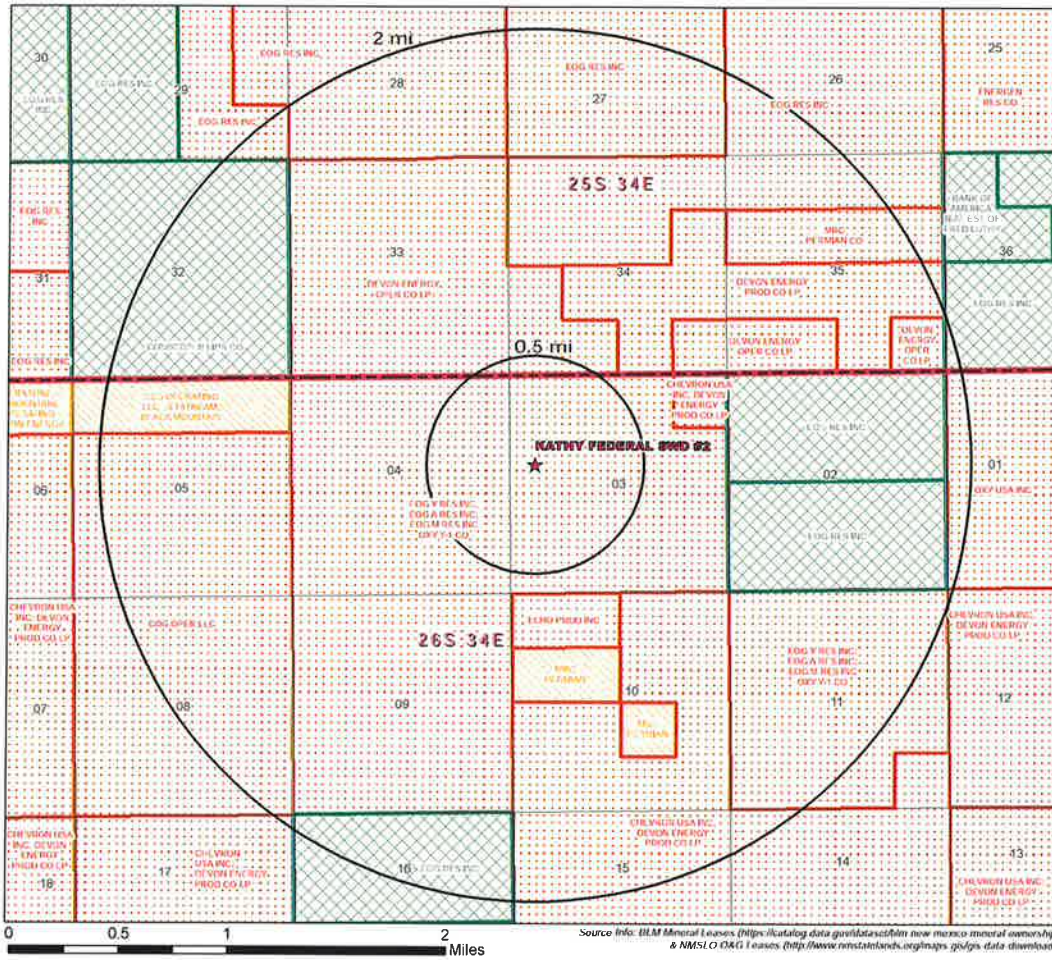
- ★ Proposed SWD
- Oil, Active (69)
- Oil, New (54)
- Oil, Plugged (18)
- ▲ Salt Water Injection, Active (1)
- ▲ Salt Water Injection, Plugged (1)

Source info: NMOCD O&G Wells updated 7/30/2019  
<http://www.emrwd.state.nm.us/OCD/ocd/gis.html>

<b>O&amp;G Wells Area of Review</b>		
<b>KATHY FEDERAL SWD #2</b> Lea County, New Mexico		
Proj Mgr: Dan Arthur	December 12, 2019	Mapped by: Ben Bockalmann
Prepared for: <b>VISTA</b>	Prepared by: <b>ALL CONSULTING</b>	

Service Layer Credits: Source: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoEye, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, Mapbox Contributors, and the GIS User Community





Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases
- Unleased Minerals - Private Owned



Mineral Lease Area of Review

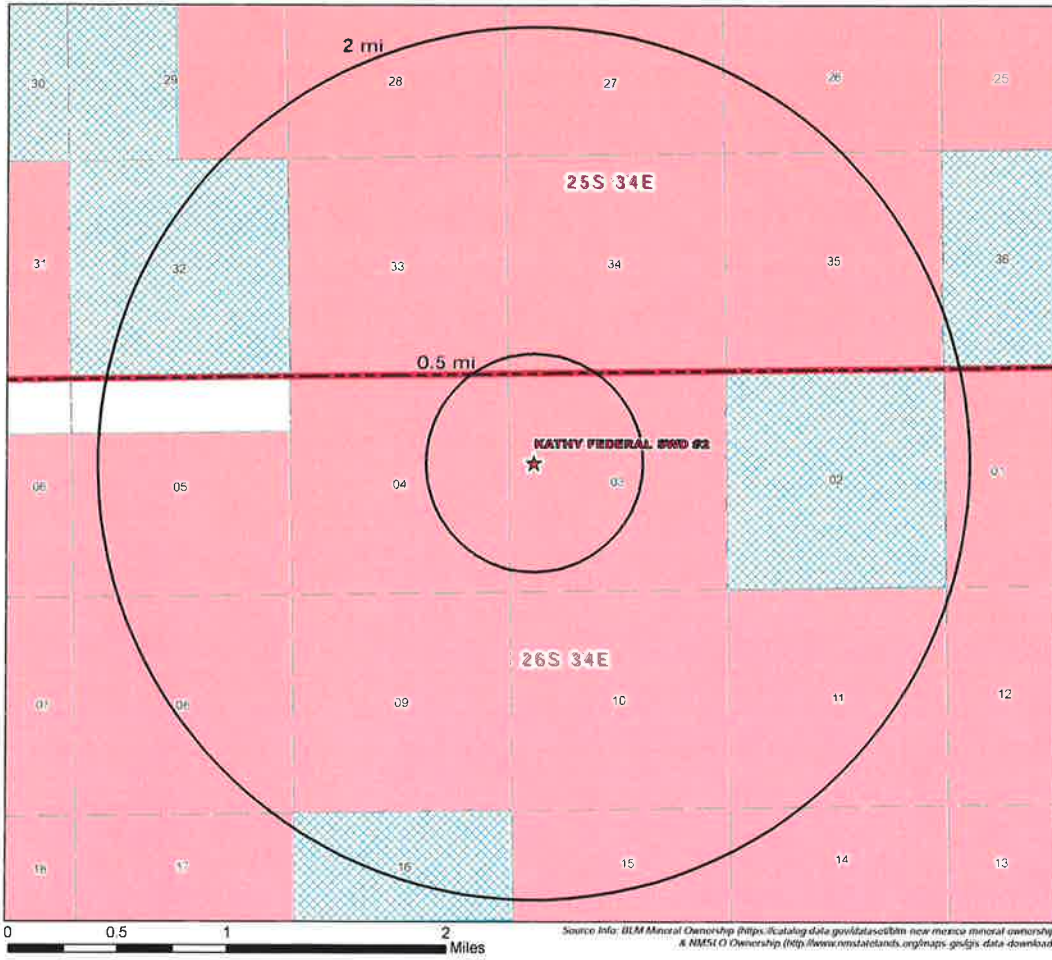
KATHY FEDERAL SWD #2  
Lea County, New Mexico

Proj Mgr: Dan Arthur	December 12, 2019	Mapped by: Ben Bockelmann
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Prepared for:  
**VISTA**

Prepared by:  
**ALICONSULTING**

Source Info: BLM Mineral Leases (<https://catalog.data.gov/datasets/blm-new-mexico-mineral-owners/html>) & NMSLO O&G Leases ([http://www.nmstatelands.org/maps/gis/gis\\_data\\_download/](http://www.nmstatelands.org/maps/gis/gis_data_download/))



**Legend**

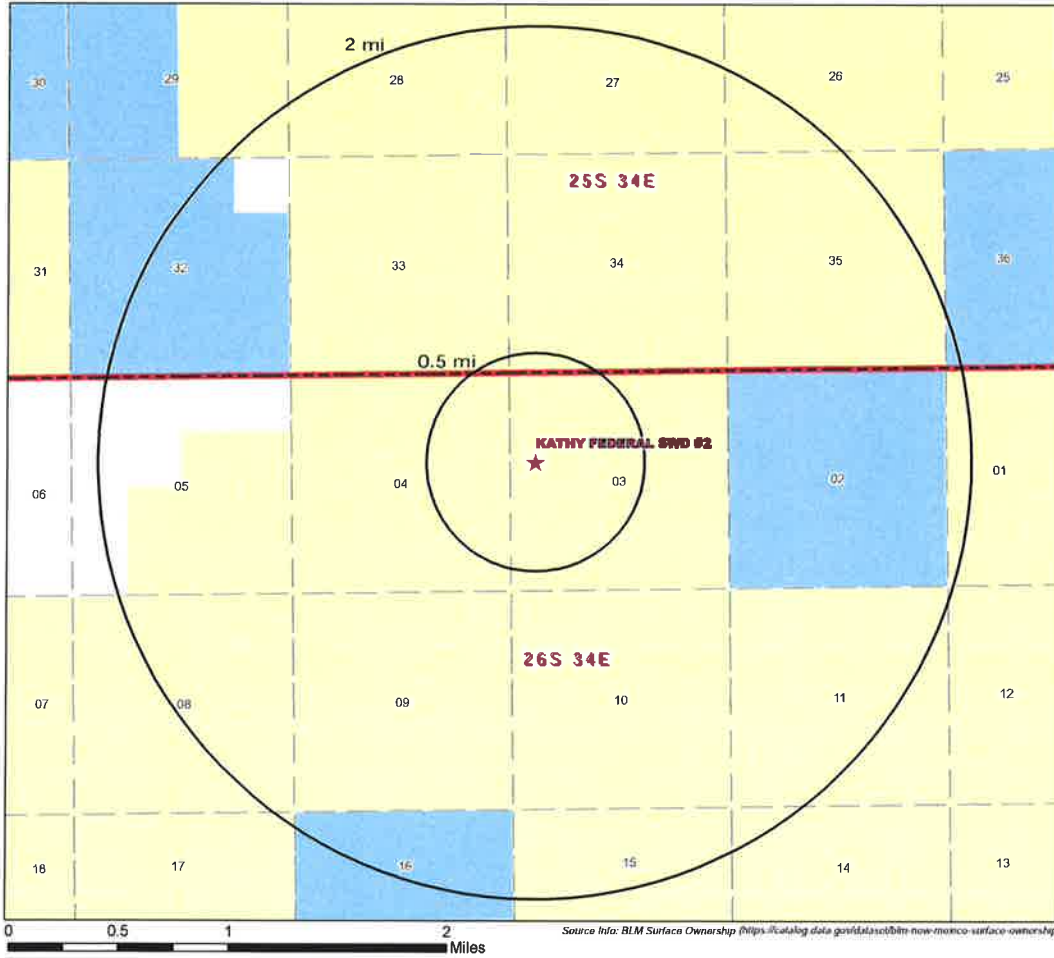
- ★ Proposed SWD
- Mineral Ownership**
- All minerals are owned by U.S. (BLM)
- Subsurface minerals (NMSLO)
- Surface and Subsurface minerals (NMSLO)
- Private minerals



<b>Mineral Ownership Area of Review</b>		
<b>KATHY FEDERAL SWD #2 Lea County, New Mexico</b>		
Proj Mgr: Dan Arthur	December 12, 2019	Mapped by: Ben Bockelmann
Prepared for: 	Prepared by: 	

Source info: BLM Mineral Ownership (<https://catalog.data.gov/datasets/blm-new-mexico-mineral-ownership>) & NMSLO Ownership ([http://www.nmslo.state.nm.us/nmslo/maps/geogis\\_data\\_downloads/](http://www.nmslo.state.nm.us/nmslo/maps/geogis_data_downloads/))





**Legend**

- ★ Proposed SWD
- Surface Ownership
  - BLM
  - Private
  - State



<b>Surface Ownership Area of Review</b>		
<b>KATHY FEDERAL SWD #2 Lea County, New Mexico</b>		
Proj Mgr: Dan Arthur	December 12, 2019	Mapped by: Ben Bockelmann
Prepared for: <b>VISTA</b>	Prepared by: <b>ALI CONSULTING</b>	



**AOR Tabulation for Kathy Federal SWD #2 (Top of Injection Interval: 5,390')**

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
STRANGER 34 FEDERAL COM #001H	30-025-46084	O	DEVON ENERGY PRODUCTION COMPANY, LP	Not drilled	M-34-255-34E	Proposed (12,539)	Yes
STRANGER 34 FEDERAL COM #013H	30-025-46013	O	DEVON ENERGY PRODUCTION COMPANY, LP	Not drilled	M-34-255-34E	Proposed (12,890)	Yes
STRANGER 33 FEDERAL #004H	30-025-45879	O	DEVON ENERGY PRODUCTION COMPANY, LP	Not drilled	P-33-255-34E	Proposed (12,540)	Yes
STRANGER 33 FEDERAL #011H	30-025-45886	O	DEVON ENERGY PRODUCTION COMPANY, LP	Not drilled	P-33-255-33E	Proposed (12,790)	Yes
STRANGER 34 FEDERAL COM #005H	30-025-46005	O	DEVON ENERGY PRODUCTION COMPANY, LP	Not drilled	M-34-255-34E	Proposed (12,670)	Yes
STRANGER 34 FEDERAL COM #009H	30-025-46009	O	DEVON ENERGY PRODUCTION COMPANY, LP	Not drilled	M-34-255-34E	Proposed (12,770)	Yes
STRANGER 33 FEDERAL #007H	30-025-45882	O	DEVON ENERGY PRODUCTION COMPANY, LP	Not drilled	P-33-255-34E	Proposed (12,690)	Yes
DEAN APQ FEDERAL #001	30-025-38656	Plugged	EOG Y RESOURCES, INC.	10/29/1996	J-03-265-34E	Plugged (12,850)	Yes
PRE-ONGARD WELL #001 (GULF YATES FEDERAL WELL #001)	30-025-08501	Plugged	PRE-ONGARD WELL OPERATOR (Gulf Oil Corporation)	4/26/1961	C-03-265-34E	Plugged (5,506)	Yes

**Casing Information for Wells Penetrating the Kathy Federal SWD #2 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
STRANGER 34 FEDERAL COM #001H	930	13 3/8	TBD; G.S.	Circulation	637 (Class C)	17 1/2	5000	9 5/8	TBD; G.S.	Circulation	Lead: 990 (Class C) Tail: 153 (Class C)	12 1/4
STRANGER 34 FEDERAL COM #013H	930	10 3/4	TBD; G.S.	Circulation	510 (Class C)	14 3/4	12229	7 5/8	TBD; G.S.	Circulation	Lead: 436 ass Tuned Light Tail: 463 (Class H)	9 7/8
STRANGER 33 FEDERAL #004H	940	13 3/8	TBD; G.S.	Circulation	637 (Class C)	17 1/2	5000	9 5/8	TBD; G.S.	Circulation	Lead: 990 (Class C) Tail: 153 (Class C)	12 1/4
STRANGER 33 FEDERAL #011H	940	10 3/4	TBD; G.S.	Circulation	510 (Class C)	14 3/4	12219	7 5/8	TBD; G.S.	Circulation	Lead: 733 ass Tuned Light Tail: 607 (Class H)	9 7/8
STRANGER 34 FEDERAL COM #005H	930	10 3/4	TBD; G.S.	Circulation	510 (Class C)	14 3/4	12108	7 5/8	TBD; G.S.	Circulation	Lead: 738 ass Tuned Light Tail: 591 (Class H)	9 7/8
STRANGER 34 FEDERAL COM #009H	930	10 3/4	TBD; G.S.	Circulation	510 (Class C)	14 3/4	12202	7 5/8	TBD; G.S.	Circulation	Lead: 732 ass Tuned Light Tail: 607 (Class H)	9 7/8
STRANGER 33 FEDERAL #007H	940	10 3/4	TBD; G.S.	Circulation	510 (Class C)	14 3/4	12131	7 5/8	TBD; G.S.	Circulation	Lead: 741 ass Tuned Light Tail: 590 (Class C)	9 7/8
DEAN APQ FEDERAL #001	1000	11 3/4	G.S.	Circulation	Lead: 600 (Class C) Tail: 250 (Class C)	14 3/4	5200	8 5/8	G.S.	Circulation	Lead: 1500 ass Pacemaker Lite [Class C] Tail: 250 (Class C)	11
PRE-ONGARD WELL #001 (GULF YATES FEDERAL WELL #001)	400	8 5/8	G.S.	Circulation	150	11	Drilled to 5600 No casing set	N/A	N/A	N/A	Plugged as dry hole	7 7/8

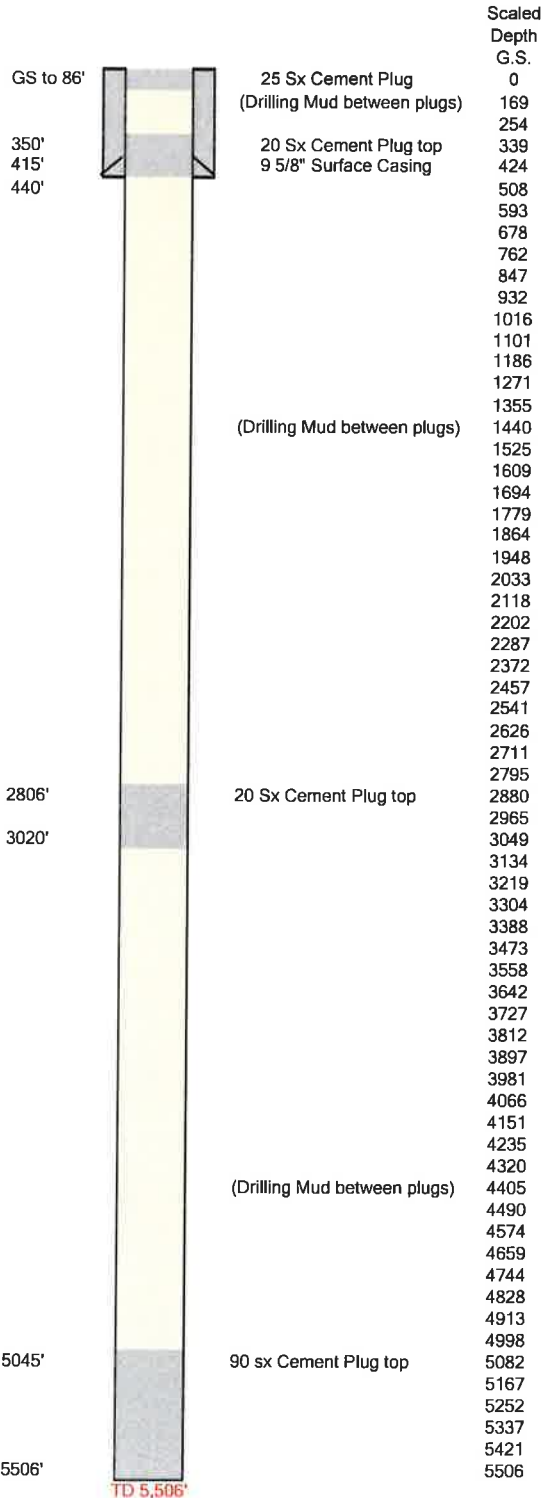
Well Name (Well Information Continued)	Production Casing & Intermediate II Casing						Liner/ Tubing & Production Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
STRANGER 34 FEDERAL COM #001H	17414	5 1/2	TBD; Minimum 4800' (200' into previous casing string)	CBL	Lead: 684 ass Tuned Lite. (Yield 3.27) Tail: 1455 (Class H)	8 3/4	N/A	N/A	N/A	N/A	N/A	N/A
STRANGER 34 FEDERAL COM #013H	12229 - 12816	7 5/8	TBD; G.S.	Circulation	1st Stage: 1000 (Class C) 2nd Stage: 609 (Class H)	8 3/4	17761	5 1/2	TBD; Minimum: 12636 (200' inside previous casing)	CBL	813 (Class H)	6 3/4
STRANGER 33 FEDERAL #004H	17345	5 1/2	TBD; Minimum 4800' (200' into previous casing string)	CBL	Lead: 688 ass Tuned Lite Tail: 1497 (Class H)	8 3/4	N/A	N/A	N/A	N/A	N/A	N/A
STRANGER 33 FEDERAL #011H	12219 - 12930	7 5/8	TBD; G.S.	Circulation	1st Stage: 1000 (Class C) 2nd Stage: 609 (Class H)	8 3/4	17672	5 1/2	TBD; Minimum: 12730 (200' inside previous casing)	CBL	388 (Class H)	6 3/4
STRANGER 34 FEDERAL COM #005H	12108 - 13001	7 5/8	TBD; G.S.	Circulation	1st Stage: 1000 (Class C) 2nd Stage: 609 (Class H)	8 3/4	17637	5 1/2	TBD; Minimum: 12801 (200' inside previous casing)	CBL	379.29 (Class H)	6 3/4
STRANGER 34 FEDERAL COM #009H	12202 - 12919	7 5/8	TBD; G.S.	Circulation	1st Stage: 1000 (Class C) 2nd Stage: 609 (Class H)	8 3/4	17736	5 1/2	TBD; Minimum: 12719 (200' inside previous casing)	CBL	393.48 (Class H)	6 3/4
STRANGER 33 FEDERAL #007H	12131 - 13033	7 5/8	TBD; G.S.	Circulation	1st Stage: 1000 (Class C) 2nd Stage: 609 (Class H)	8 3/4	17507	5 1/2	TBD; Minimum: 12833 (200' inside previous casing)	CBL	367 (Class H)	6 3/4
DEAN APQ FEDERAL #001	12850	5 1/2	7560	CBL	1st Stage: 350 (Class H) 2nd Stage: Lead: 950 ass Pacemaker Lite (Class C) Tail: 150 (Class H)	7 7/8	Plugging Information: 30 x4 cmt plug @ 850-1050; 25 x4 cmt plug 2970 - 3100; 75 x4 cmt plug 5127 - 5880; 50 x4 cmt plug 7100 - 7300; Casing Splice @ 8836 w/625 x25 x4 cement plug @ 9300 - 9500; CIBP @ 11344; CIBP @ 12354 w/ 35 x4; CIBP @ 12401 (WBD Attached Below).					
PRE-ONGARD WELL #001 (GULF YATES FEDERAL WELL #001)	N/A	N/A	N/A	N/A	N/A	N/A	Plugging Information: 90 x4s from 5506 - 5045; mud to 3020; 30 x4s to 2860; mud to 440; 20 x4s cmt to 350; mud to 86; 25 x4s cement to surface (WBD Attached Below).					



**GULF OIL CORPORATION, GULF YATES FEDERAL WELL #001**  
**API# 30-025-08501**

Operator: GULF OIL CORPORATION  
 FIELD: WILDCAT  
 LEASE: GULF YATES FEDERAL  
 COUNTY: LEA  
 Location: 660 FNL, 1980 FWL of Sec 3

DATE: 12/12/2019  
 BY: F DELEON  
 WELL: 1  
 STATE: NEW MEXICO  
 Survey: C 26-S, 24-E, Sec 3



Casing	O.D.	top	bottom	weight	Dril hole	Factor
Conductor						
Surface	9 5/8	10	415	36	11	#####
Intermediate						
Production						
Perforations	(Dry Hole)					

Cement	Slurry	Class	Sacks	Volume	Yield	Fillup	bottom	top
Surface		?	150		1.18		415	
Intermediate								
ntermed. DVT								
Production								

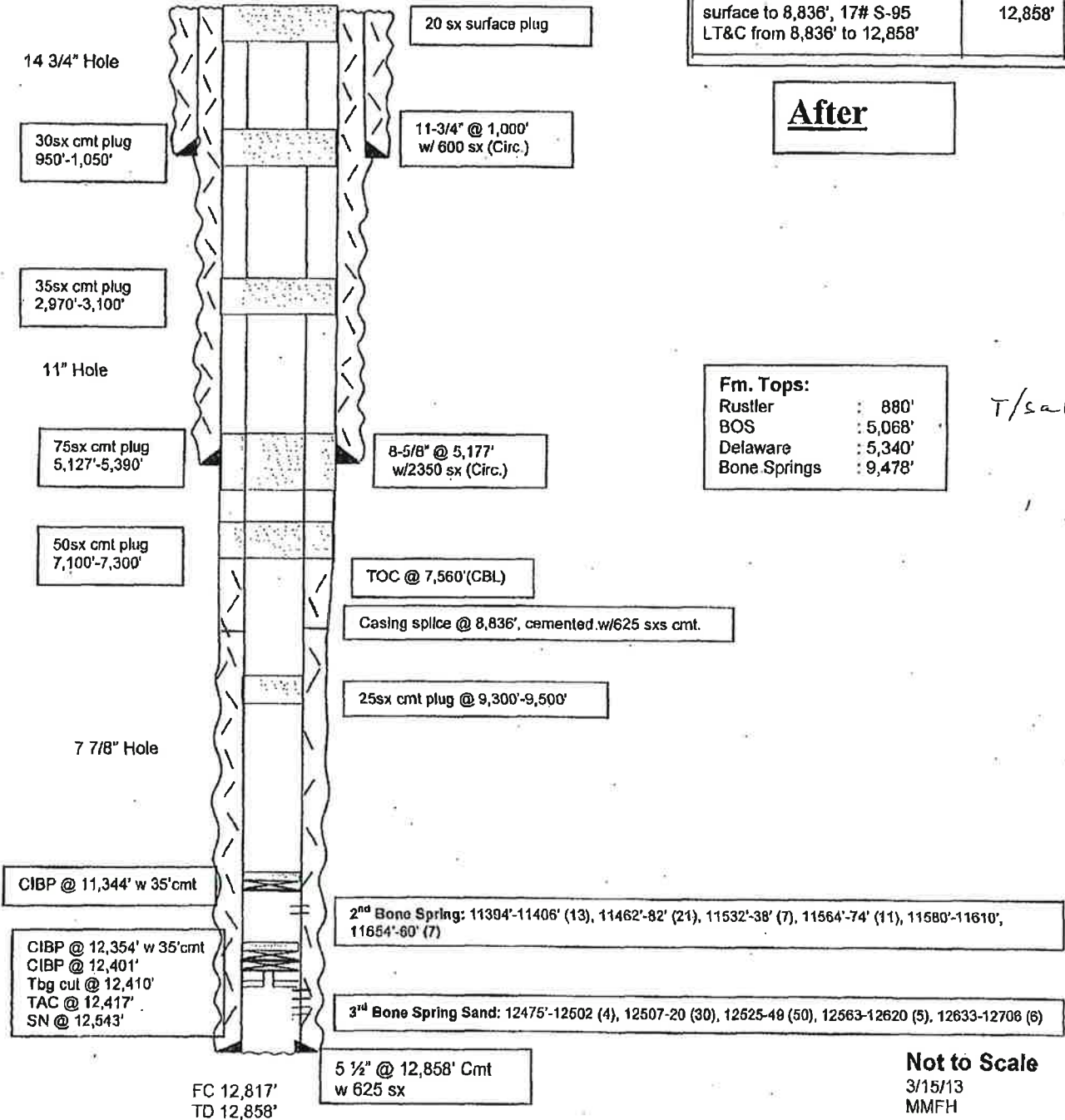
Groundwater S.C. set @ 400  
 TD = 5506  
 PBTD =  
 SPUD DATE: 4/26/1961  
 PLUG DATE: 5/9/1961  
 CURRENT STATUS:  
 DERRICK FLOOR = 3314'  
 Elevation =

WELL NAME: Dean APQ Fed #1 FIELD: Hardin Tank Bone Spring  
 LOCATION: 2310' FSL & 2310' FEL Sec 3-26S-34E (unit J) Lea County  
 GL: 3,311' ZERO: \_\_\_\_\_ KB: \_\_\_\_\_  
 SPUD DATE: 10/31/96 COMPLETION DATE: 12/25/96  
 COMMENTS: API No. 30-025-33656

**CASING PROGRAM**

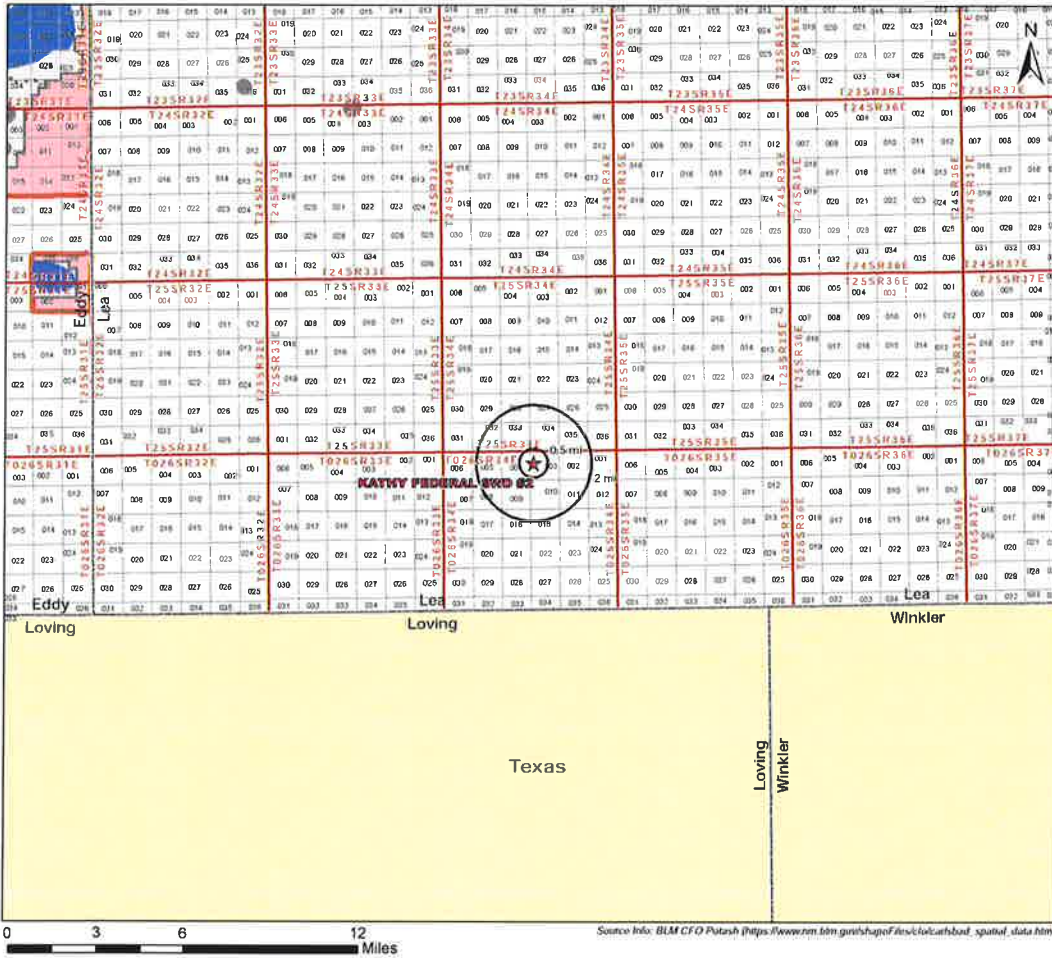
11-3/4" 42# H40 STC	1,000'
8-5/8" 32# K55	5,177'
5 1/2" 17# L-80 LT&C from surface to 8,836', 17# S-95 LT&C from 8,836' to 12,858'	12,858'

**After**



T/salt 1030-1070

**Not to Scale**  
 3/15/13  
 MMFH



- Legend**
- ★ Proposed SWD
  - Ore Type - Measured
  - Ore Type - Indicated
  - KPLA
  - SOPA
  - Drill Islands
  - Status**
  - Approved
  - Nominated

<b>Potash Leases Area of Review</b>		
<b>KATHY FEDERAL SWD #2</b> Lea County, New Mexico		
Proj Mgr: Dan Arthur	December 12, 2019	Mapped by: Ben Bockelmann
Prepared for: <b>VISTA</b>	Prepared by: <b>ALI CONSULTING</b>	

0 3 6 12 Miles  
Source Info: BUM CFO Potash (https://www.zen.com/growth/Files/leacountybaul\_spatial\_data.htm)

**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	Lea	New Mexico

Sample Source	Swab Sample	Sample #
		<i>Eddy</i> 1-265-295 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	290	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

North Permian Basin Region

P.O. Box 740

Sundown, TX 79372-0740

(806) 228-6121

Lab Team Leader - Shella Hernandez

(432) 495-7240

Bone Spring

Water Analysis Report by Baker Petrolite

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

Summary		Analysis of Sample 534665 @ 75 F					
Sampling Date:	03/10/11	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	03/16/11	Chloride:	109616.6	3081.92	Sodium:	79275.7	3056.82
Analyst:	SANDRA GOMEZ	Bicarbonate:	2135.0	34.89	Magnesium:	195.0	16.04
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:	689.0	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
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
F	psi											psi
80	0	1.08	188.52	-1.20	0.00	-1.18	0.00	-0.11	0.00	0.58	0.29	1.72
100	0	1.10	206.06	-1.29	0.00	-1.20	0.00	-0.15	0.00	0.35	0.29	2.36
120	0	1.12	224.17	-1.38	0.00	-1.19	0.00	-0.17	0.00	0.16	0.00	3.17
140	0	1.13	243.17	-1.42	0.00	-1.18	0.00	-0.18	0.00	0.00	0.00	4.21

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

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

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

**Attachment 4**

**Injection Formation Water Analyses**

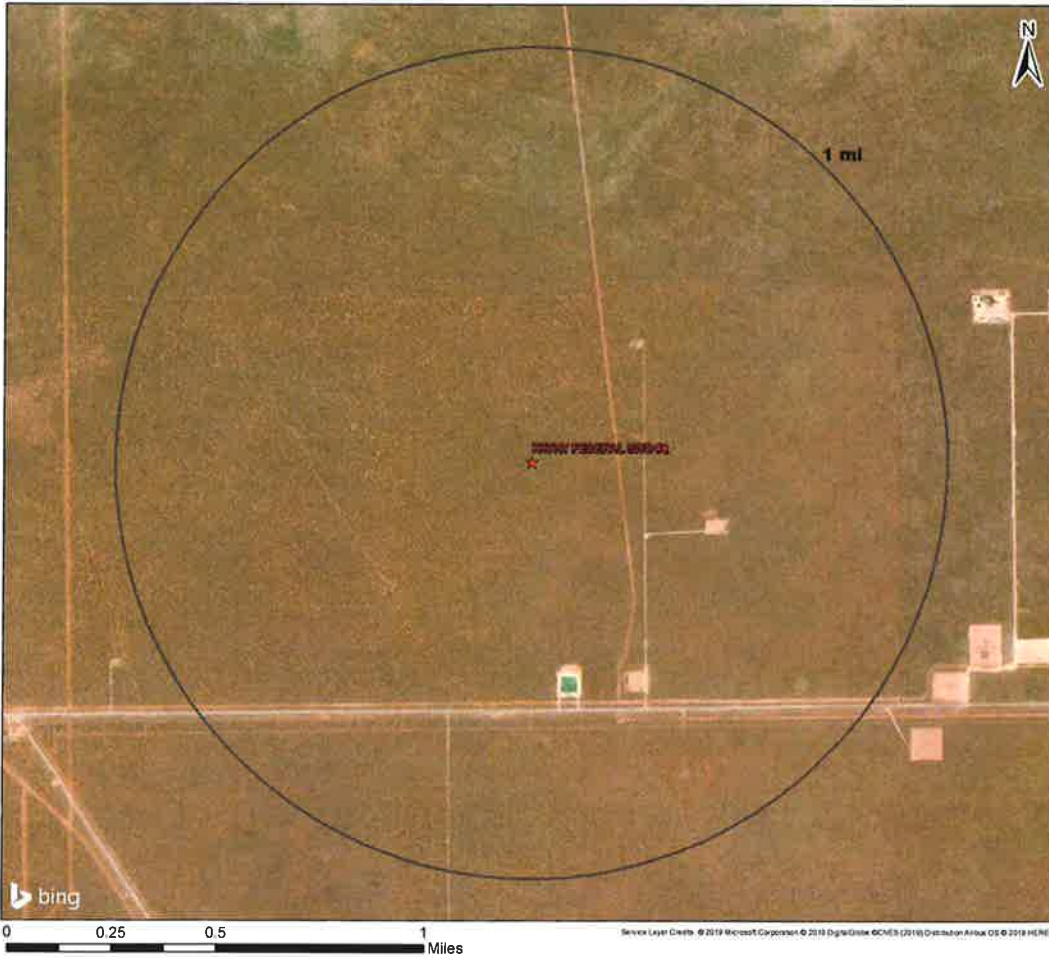


Injection Formation Water Analysis																			
Vista Disposal Solutions, LLC - Delaware Mountain Group Formation																			
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Flgno	Flgrov	County	State	Company	Field	Formation	Depth	Tds_mgt	Chloride_mgt	Bicarbonate_mgt	Sulfate_mgt
NORTH EL MAR UNIT #017	3002508430	32.016605	-103.617691	30	26S	13E	E	1930N	660W	LEA	NM		EL MAR	DELAWARE	4742	254750	159400	80	210
NORTH EL MAR UNIT #057	3002508440	32.001946	-103.611134	31	26S	13E	E	1935N	7090W	LEA	NM		EL MAR	DELAWARE	4773	259554	163000	61	253
GOLDEN WOOD	3002508420	32.052799	-103.557997	10	26S	13E	G	1980N	1980E	LEA	NM		SALADO DRAW	DELAWARE	5200	293925	184000	85	210
MARSHALL WOOD	3002508158	32.248812	-103.817624	19	23S	13E	M	660S	660W	LEA	NM		CRUZ	DELAWARE	5237	238931	148600	127	156
NORTH EL MAR UNIT #022	3002508278	32.011662	-103.626207	35	26S	12E	F	1980S	1980E	LEA	NM		EL MAR	DELAWARE	4749	244415	153500	88	220
NORTH EL MAR UNIT #032	3002508291	32.008019	-103.643479	26	26S	12E	D	660S	1980E	LEA	NM		EL MAR	DELAWARE	4605	254895			
NORTH EL MAR UNIT #038	3002508396	32.011854	-103.652192	26	26S	12E	L	1980S	660W	LEA	NM		EL MAR	DELAWARE	4565	249479	156000	976	373
NORTH EL MAR UNIT #045	3002508308	32.004387	-103.638180	35	26S	12E	A	660N	330E	LEA	NM		EL MAR	DELAWARE	4633	255115	160000	85	310
COTTON DRAW UNIT #024	3002508176	32.143189	-103.665066	10	25S	12E	K	1980S	1980W	LEA	NM		PADUCA	DELAWARE	4787	246555	152600	112	935
COTTON DRAW UNIT #001	3002508182	32.125053	-103.6693573	15	25S	12E	M	660S	660W	LEA	NM		PADUCA	DELAWARE	4804	308500			
COTTON DRAW UNIT #003	3002508183	32.125053	-103.6693573	15	25S	12E	M	660S	660W	LEA	NM		PADUCA	DELAWARE	4804	309980			
MONSANTO STATE #003	3002508196	32.128666	-103.6736345	16	25S	12E	P	1980S	660E	LEA	NM		PADUCA	DELAWARE	4800	224916	118600	139	462
COTTON DRAW UNIT #004	3002508231	32.131422	-103.6693649	27	25S	12E	D	660N	660W	LEA	NM		PADUCA	DELAWARE	4665	276839	172500	190	552
G E JORDAN NCT-1 #021	3002508226	32.107823	-103.6709103	27	25S	12E	D	330N	330W	LEA	NM		PADUCA	DELAWARE	4498	239464	147800	64	908
HANAGAN B FEDERAL #001	3002508153	32.312124	-103.6603851	15	24S	12E	O	660S	1980E	LEA	NM		DOUBLE X	DELAWARE	4955	229878	142200	168	491
HANAGAN B FEDERAL #003	3002508151	32.312124	-103.6603851	15	24S	12E	O	660S	1980E	LEA	NM		DOUBLE X	DELAWARE	4955	229309	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**

**KATHY FEDERAL SWD #2**  
Lea County, New Mexico

Proj Mgr: Dan Arthur	December 12, 2019	Mapped by: Ben Bockelmann
-------------------------	-------------------	------------------------------



Service Layer Credits: © 2019 Microsoft Corporation © 2019 DigitalGlobe © CNES (2019) Distribution Airbus DS © 2018 HERE

Water Well Sampling Rationale						
Vista Disposal Solutions, LLC - Kathy Federal SWD #2						
SWD	Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes

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 13, 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

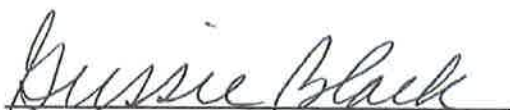
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
December 14, 2019  
and ending with the issue dated  
December 14, 2019.



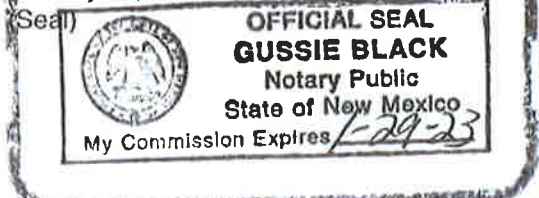
Publisher

Sworn and subscribed to before me this  
14th day of December 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**

**LEGAL NOTICE  
DECEMBER 14, 2019**

**APPLICATION FOR AUTHORIZATION TO INJECT**

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:

**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:** Kathy Federal SWD #2  
SW ¼ NW ¼, Section 03, Township 26S, Range 34E  
2,153' FNL & 612' FWL  
Lea County, NM

**NAME AND DEPTH OF DISPOSAL ZONE:** Bell Canyon (5,390 - 6,135)

**EXPECTED MAXIMUM INJECTION RATE:** 25,000 Bbls/day

**EXPECTED MAXIMUM INJECTION PRESSURE:** 1,078 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 918-382-7881 #34983

67115320

00237216

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

**APPLICATION FOR AUTHORIZATION TO INJECT**

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

Kathy Federal SWD #2 - 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>				
Devon Energy Production Company, LP (DEVON ENERGY PROD CO LP)	6488 Seven Rivers Hwy.	Artesia	NM	88210
EOG Resources, Inc. (EOG Y RES INC) (EOG A RES INC) (EOG M RES INC)	104 S. 4th Street	Artesia	NM	88210
OXY-1 Company (OXY Y-1 CO)	P.O. Box 27570	Houston	TX	77227
<p><b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 1/2-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 1/2-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).</p>				

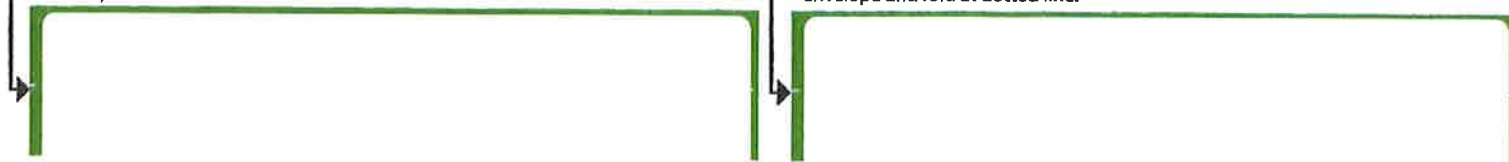
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Artesia NM 88210-2123

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New Mexico BLM  
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Carlsbad NM 88220-6292

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

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Tulsa, OK 74119

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OXY Y-1 Company  
P.O. Box 27570  
Houston TX 77227-7570