

# AE Order Number Banner

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**Application Number: pMSG2419952350**

**SWD-2623**

**BC & D OPERATING INC. [25670]**

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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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:** BC&D Operating, Inc. **OGRID Number:** 25670  
**Well Name:** Javelina 22-25-37 SWD #1 **API:** 30-025-xxxxx  
**Pool:** SWD; San Andres **Pool Code:** 96121

**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  
 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    PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.  
 A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

<b>FOR OCD ONLY</b>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	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.**

Ben Stone  
Print or Type Name

Signature

6/24/2024  
Date

903-377-5696  
Phone Number

ben@sosconsulting.us  
e-mail Address



June 24, 2024

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

Attn: Mr. Dylan Fuge, Director

***Re: Application of BC&D Operating, Inc. to drill, complete and otherwise permit for salt water disposal the Javelina 22-25-37 SWD #1, (API 30-025-xxxx) located in Section 22, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.***

Dear Mr. Fuge,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal the subject prospective well. By authorizing the proposed SWD, the applicant can service disposal needs for operators in the area.

BC& D Operating, Inc. seeks to optimize efficiency, both economically and operationally, of all its operations in southeast New Mexico. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice ran in the June 19, 2024, edition of the Hobbs News-Sun and offset operators and other affected parties have been notified individually. All required information and attachments are included for a complete Form C-108. The well is located on split-estate; private land and federal minerals.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

A handwritten signature in black ink, appearing to read 'Ben Stone', is written over a white background.

Ben Stone, Partner  
SOS Consulting, LLC  
Agent for BC&D Operating, Inc.

Cc: Application attachment and file

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: **Salt Water Disposal** and the application **QUALIFIES** for administrative approval.
- II. OPERATOR: **BC&D Operating, Inc.**  
ADDRESS: **2702 North Grimes, Ste.B, Hobbs, NM 88241**  
CONTACT PARTY: **Agent: SOS Consulting, LLC – Ben Stone (936) 377-5696**
- III. WELL DATA: **All Well Data and Applicable Wellbore Diagrams and Packer Info are ATTACHED.**
- IV. **This is not an expansion of an existing project.**
- V. **A map is attached** 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. A **Tabulation is ATTACHED** of data on all wells of public record within the area of review which penetrate the proposed injection zone. **There are NO wells in the subject AOR which penetrate the proposed San Andres interval.** The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail.  
**1 P&A well penetrates.**
- VII. **The following data is ATTACHED** 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. **Appropriate geologic data on the injection zone is ATTACHED** 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. **Stimulation program – a conventional acid job of up to 15,000 gals. may be performed to clean and open the formation.**
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **Well logs will be filed upon completion of the well.**
- \*XI. **There are 4 water wells within one mile of the proposed SWD well per OSE data. 1 representative analysis is ATTACHED.**
- XII. **An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found** of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. **"Proof of Notice" section on the next page of this form has been completed and ATTACHED. There are 7 offset lessees and/or operators within ONE mile plus Federal minerals - all have been noticed. Location is PRIVATE/ FEE.**
- 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: **Ben Stone** TITLE: **SOS Consulting, LLC agent for BC&D Operating, Inc.**

SIGNATURE:  DATE: **5/24/2024** 6/24/2024

E-MAIL ADDRESS: **ben@sosconsulting.us**

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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

**FORM C-108 – APPLICATION FOR AUTHORIZATION TO INJECT (cont.)**III. WELL DATA – *The following information and data is included (See ATTACHED Wellbore Schematic):*

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 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 details 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 *pursuant to the following criteria is ATTACHED.*

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.

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 30-025-xxxx		<sup>2</sup> Pool Code 96121		<sup>3</sup> Pool Name SWD; San Andres	
<sup>4</sup> Property Code TBD		<sup>5</sup> Property Name Javelina 22-25-37			<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 25670		<sup>8</sup> Operator Name BC&D Operating, Inc.			<sup>9</sup> Elevation 3085'

<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	22	25S	37E		2310'	South	230'	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
same									

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

<sup>16</sup>          	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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.  Signature <span style="float: right;">5/04/2024</span> Date Ben Stone Printed Name ben@sosconsulting.us E-mail Address		
	<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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.  Date of Survey Signature and Seal of Professional Surveyor:  <p style="text-align: center;"><b>PRE-SURVEY FOR INFORMATIONAL PURPOSES ONLY</b></p> Certificate Number		

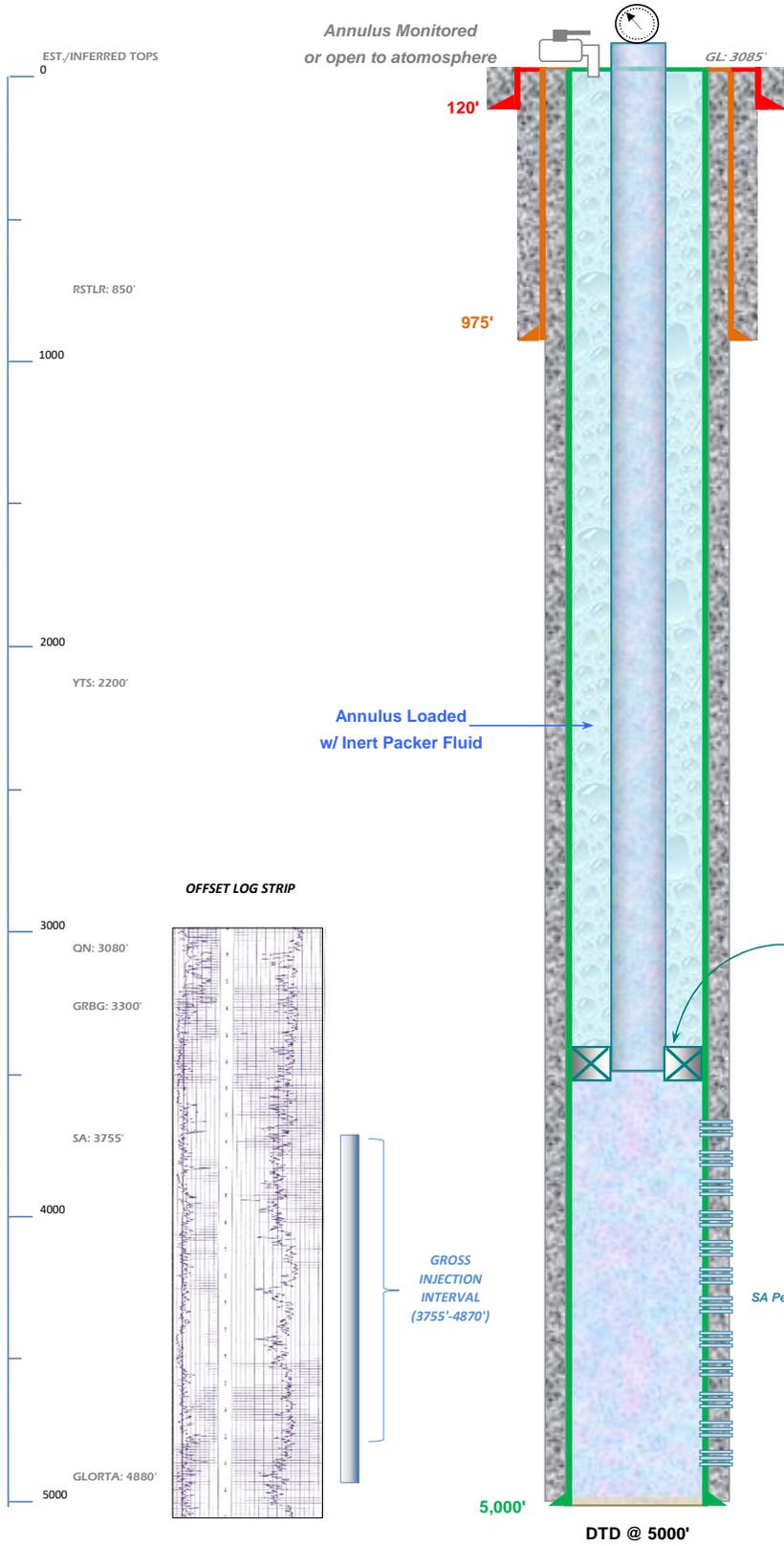


### WELL SCHEMATIC - PROPOSED Javelina 22-25-37 SWD #1

SWD; San Andres (96121)

API 30-025-xxxxx  
2310' FSL & 230' FWL, SEC. 22-25S-R37E  
LEA COUNTY, NEW MEXICO

Spud Date: ~12/15/2024  
Config SWD Dt: ~2/01/2025



Injection Pressure Regulated  
and Volumes Reported  
751 psi Max. Surface (0.2 psi/ft)

**Conductor Casing**  
16.0" Csg. (20.0" Hole) @ 120'  
8 yds - Surface

**Surface Casing**  
9.625", 40.0# J-55 Csg. (12.25" Hole) @ 975'  
1255 sx - Circulated to Surface

#### BC&D OPERATING, INC.

**Drill and Complete New SWD:**  
Drill and set casing as shown (25%-50% excess Cmt).  
Perforate interval w/ 4-8 jsfp.  
Acidize w/ up to ~15,000 gals 15% HCl  
Run PC Tubing and PKR - Conduct Witnessed MIT.  
Commence Disposal Operations.  
File all appropriate sundries and C-105 Completion Report.

**5.5" IC Tubing (or smaller)**  
PKR ~3655'+  
Note: PRK Set 100' Above Final Uppermost Perf Interval.

**Production Casing**  
7.625", 26.4# P-110 Csg. (8.75" Hole) @ 5,000';  
750 sx 'C' - Calc'd to Circ.

Drawn by: Ben Stone, Rvstd 6/18/2024





# Weatherford®

Packer Systems

## *Arrowset I-XS Mechanical Packer*

Weatherford's Arrowset I-XS mechanical packer is a versatile, field-proven retrievable double-grip packer for isolating the annulus from the production conduit. The packer can be set with tension or compression.

A patented upper-slip releasing system reduces the force required to release the packer. A nondirectional slip is released first, making it easier to release the other slips. The packer also has a straight-pull safety release.

### *Applications*

- Production
- Pumping
- Injection
- Fiberglass tubing
- Completions requiring periodic casing-integrity tests
- Zonal isolation

### *Features, Advantages and Benefits*

- The design holds differential pressure from above or below, enabling the packer to meet most production, stimulation, and injection needs.
- The packer can be set with compression or tension, enabling deployment in shallow and deep applications.
- The packer can be set and released with only a one-quarter turn of the tubing.
- The bypass valve is below the upper slips so that debris is washed from the slips when the valve is opened, reducing the times for circulation and total retrieval.
- The packer can be run with Weatherford's T-2 on-off tool, which enables the tubing to be disconnected and retrieved without retrieving the packer.





**Weatherford**

Packer Systems

## Arrowset I-XS Mechanical Packer

### Specifications

Casing				Packer			
OD (in./mm)	Weight (lb/ft, kg/m)	Minimum ID (in./mm)	Maximum ID (in./mm)	Maximum OD (in./mm)	Minimum ID (in./mm)	Standard Thread Connection (in./mm)	Product Number
4-1/2 114.3	9.5 to 13.5 14.1 to 20.1	3.920 99.57	4.090 103.89	3.750 95.25	1.985 50.42	2-3/8 EUE 8 Rd	604-45
5-1/2 139.7	14.0 to 17.0 20.8 to 25.3	4.892 124.26	5.012 127.30	4.515 114.68	1.985 50.42	2-3/8 EUE 8 Rd	604-55
				4.625 117.48		2-7/8 EUE 8 Rd	604-56
	20.0 to 23.0 29.8 to 34.2	4.670 118.62	4.778 121.36	4.515 114.68		2-3/8 EUE 8 Rd	604-57
						2-7/8 EUE 8 Rd	604-59-000
6-5/8 168.3	24.0 to 32.0 35.7 to 47.6	5.675 144.15	5.921 150.39	5.515 140.08	2.375 60.33	2-7/8 EUE 8 Rd	604-65
	17.0 to 24.0 25.3 to 35.7	5.921 150.39	6.135 155.83	5.750 146.00			604-68
7 177.8	17.0 to 26.0 25.7 to 39.3	6.276 159.41	6.538 166.07	5.515 140.08	2.375 60.33	2-7/8 EUE 8 Rd	604-72
				6.000 152.40			3.000 76.20

### Options

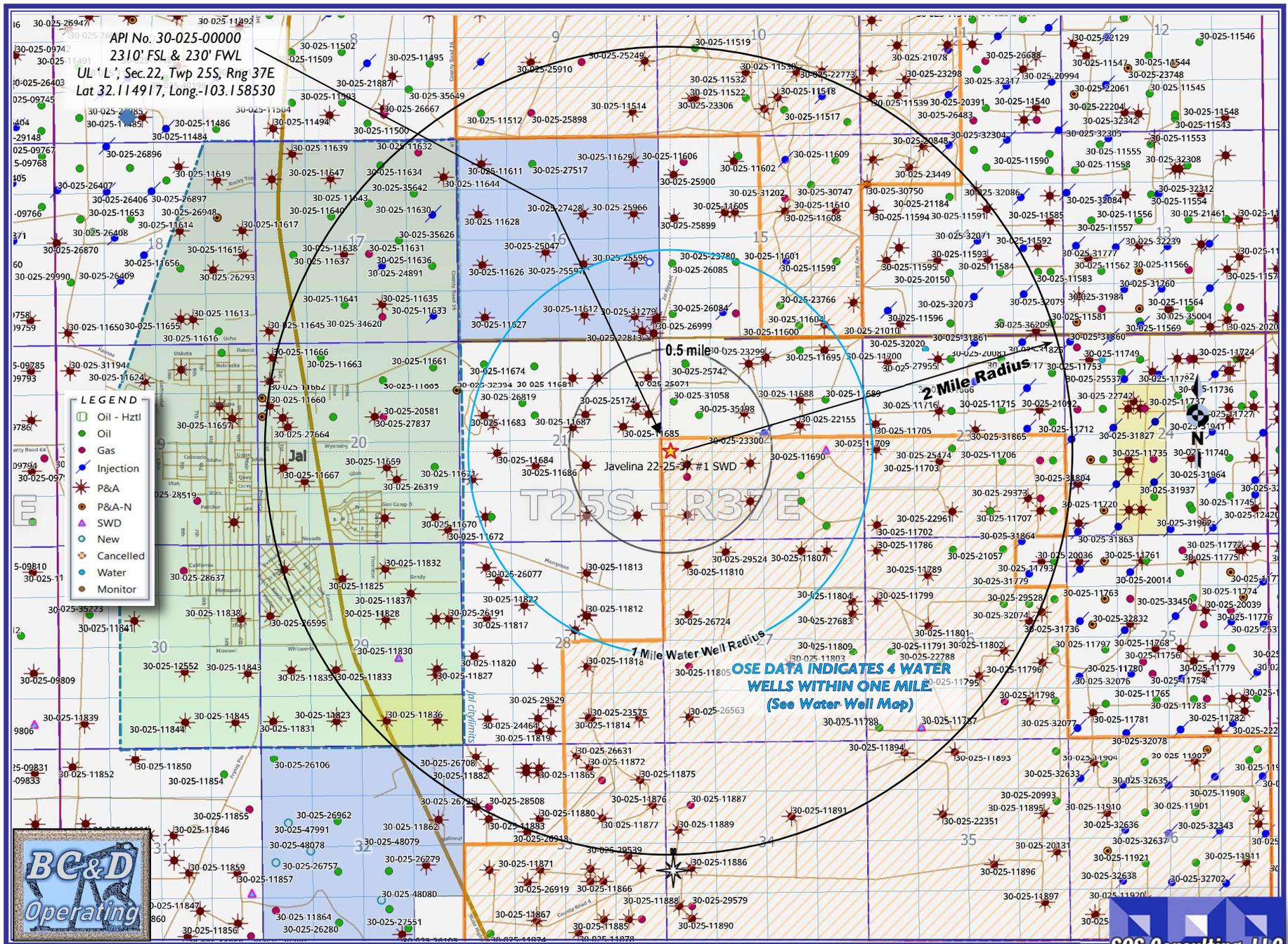
- Elastomer options are available for hostile environments.

For internal use

Link to Endeca assembly part numbers: [Arrowset I-XS Mechanical Packer](#)

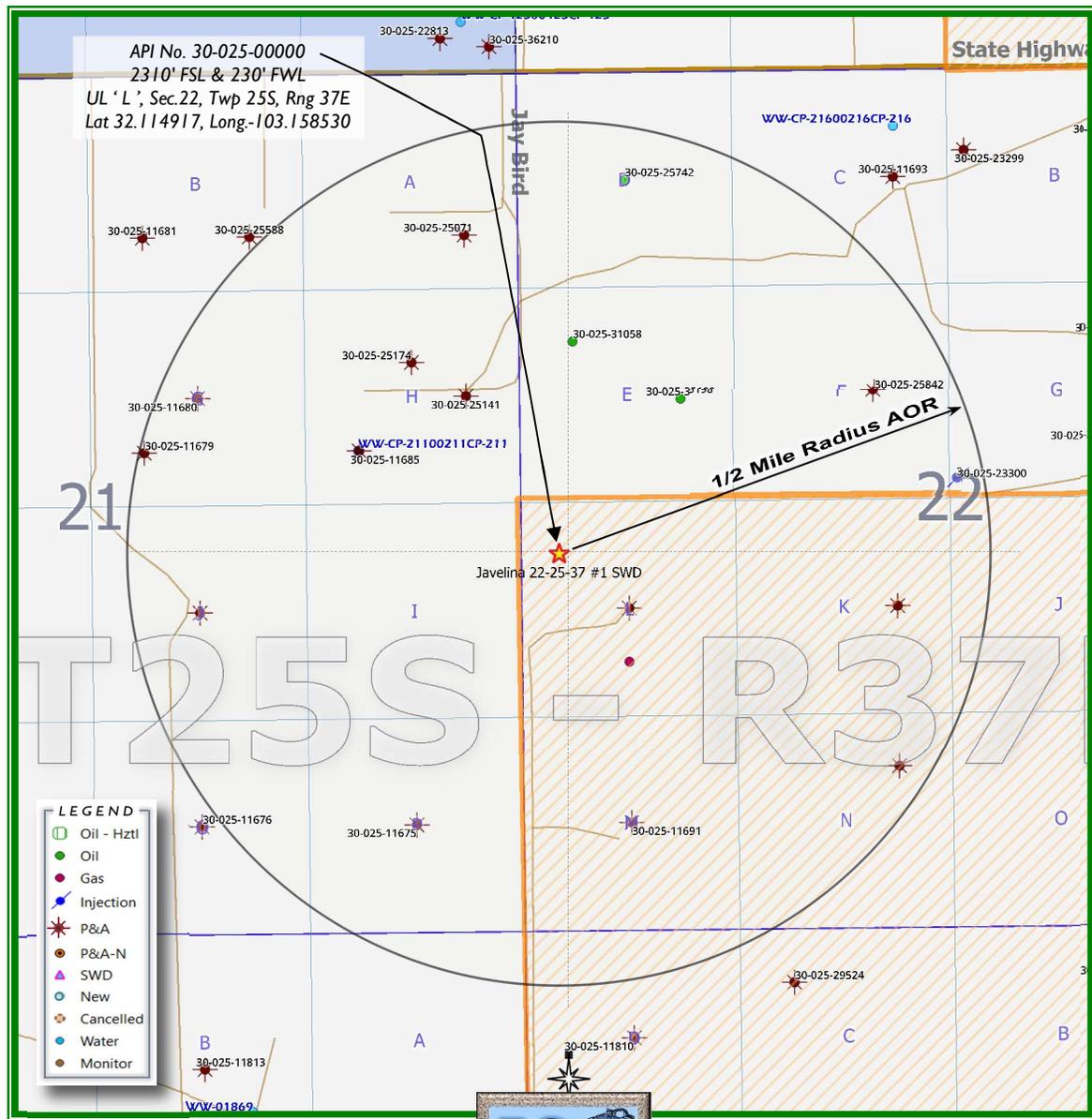
# Javelina 22-25-37 #1 SWD - Area of Review / 2 Miles

(Attachment to NMOCD Form C-108 - Item V)



# Javelina 22-25-37 #1 SWD - Area of Review / Overview Map

(Attachment to NMOCD Form C-108 - Item V)



~1.8 miles East of Jal, NM



Lea County, New Mexico



Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed SAN ANDRES Interval 3755'					NO (0) Wells Penetrate Proposed Interval.				
API	Current Operator	Well Name	Type	Status	ULSTR	Lease	Spud Dt.	Depth (V)	Plug Dt.
<i>Subject Well</i>									
30-025-xxxx	BC&D Operating, Inc.	Javelinla 22-25-37 SWD #1	SWD	New	L-22-25S-37E	Private	~12/01/2024	5000'	
30-025-25071	HERMAN L. LOEB LLC	ARCO #001	Oil	P&A-R	A-21-25S-37E	Private	7/25/1975	3500'	7/30/2019
30-025-11679	BETTIS BOYLE & STOVALL, INC.	B T LANEHART #005	Gas	P&A-R	G-21-25S-37E	Private	9/16/1955	3143'	9/1/2012
30-025-11680	BETTIS BOYLE & STOVALL, INC.	B T LANEHART #001	Oil	P&A-R	G-21-25S-37E	Private	12/31/9999	3076'	9/1/2012
30-025-11685	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Gas	P&A-R	H-21-25S-37E	No Data	1/1/1900	3572'	1/1/1900
30-025-25174	HERMAN L. LOEB LLC	ARCO #002Y	Oil	P&A-R	H-21-25S-37E	Private	12/31/9999	3500'	11/4/2015
30-025-25141	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #002	Oil	P&A-R	H-21-25S-37E	No Data	1/1/1900	3500'	1/1/1900
30-025-09779	HERMAN L. LOEB LLC	EXXON #001	Gas	P&A-R	J-21-25S-37E	Private	1/23/1976	3448'	2/26/2010
30-025-11675	HERMAN L. LOEB LLC	HADFIELD #002	Gas	P&A-R	P-21-25S-37E	Private	12/10/1948	3032'	9/25/2009
30-025-25742	FAE II Operating LLC	LANEHART 22 #001	Oil	Active	D-22-25S-37E	Private	12/21/1977	3600'	12/31/9999
30-025-35198	FAE II Operating LLC	AIRPORT #002	Oil	Active	E-22-25S-37E	Private	1/11/2001	3400'	12/31/9999
30-025-31058	FAE II Operating LLC	AIRPORT #001	Oil	Active	E-22-25S-37E	Private	1/7/1991	3503'	12/31/9999
30-025-25842	HERMAN L. LOEB LLC	MOBIL #001	Gas	P&A-R	F-22-25S-37E	Private	7/21/1986	3450'	10/14/2015
30-025-23300	Benton Crude Oil LLC	LANGLIE MATTIX QUEEN UNIT #032	Injection	Active	G-22-25S-37E	Private	12/31/9999	3620'	12/31/9999
30-025-27245	ENDEAVOR ENERGY RESOURCES, LP	TERRA FEDERAL #001	Oil	P&A-R	K-22-25S-37E	Federal	2/14/1981	3470'	1/12/2018
30-025-29358	FAE II Operating LLC	CARLSON HARRISON FEDERAL COM #004	Gas	Active	L-22-25S-37E	Federal	8/14/1985	3625'	12/31/9999
30-025-11692	CIMAREX ENERGY CO. OF COLORADO	CARLSON HARRISON FEDERAL COM #001	Gas	P&A-R	L-22-25S-37E	Federal	12/31/9999	3074'	3/22/2006
30-025-11691	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	M-22-25S-37E	Federal	1/1/1900	3007'	1/1/1900
30-025-27449	ENDEAVOR ENERGY RESOURCES, LP	TERRA FEDERAL #002	Gas	P&A-R	N-22-25S-37E	Federal	6/7/1981	3470'	2/23/2021

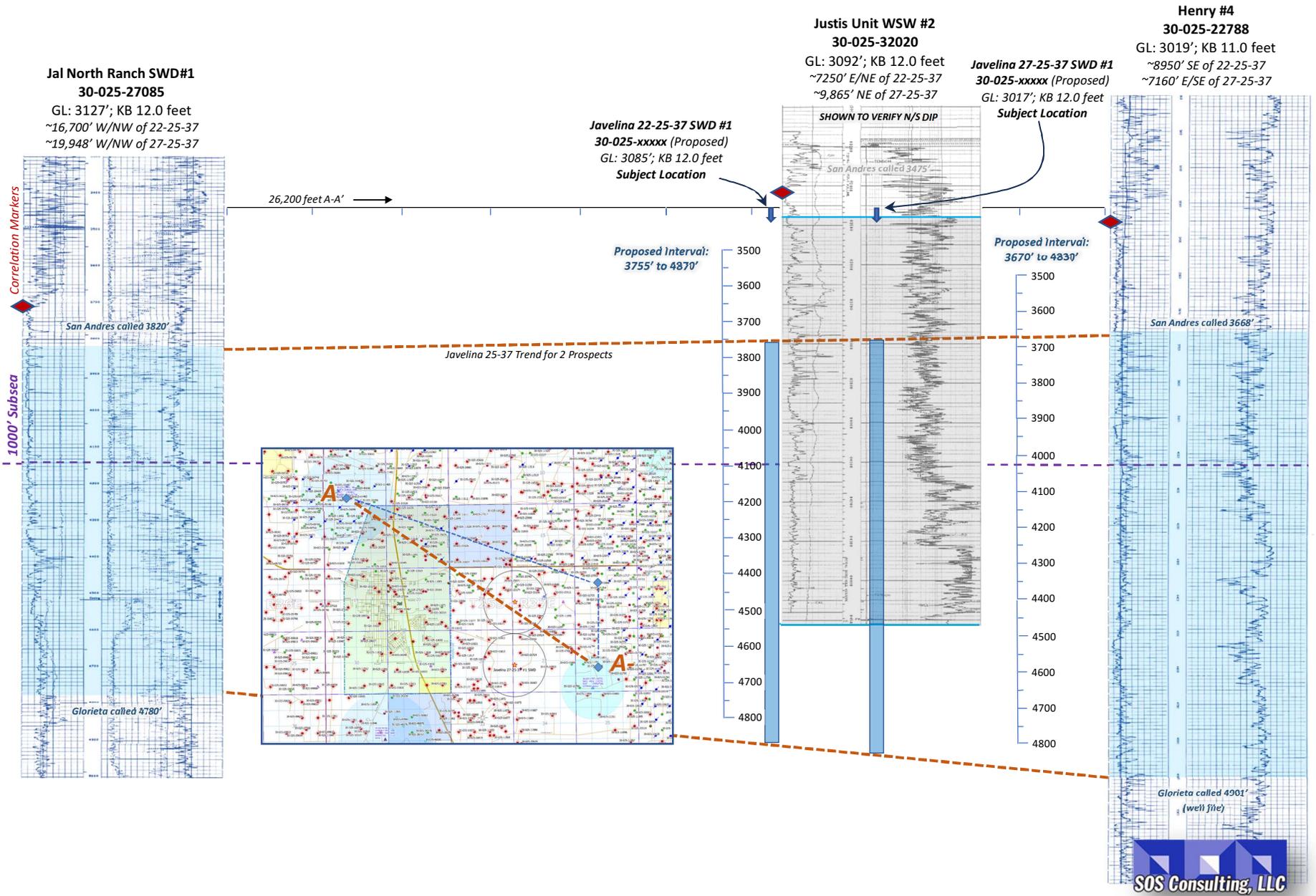
**SUMMARY: NO wells penetrate the proposed disposal interval.**



# BC&D Operating, Inc. – Javelinas 22-25-37 SWD #1 and 27-25-37 #1

## Log Cross-Section for San Andres Target Interval

Logs from 3 offsetting wells were reviewed and correlated with the subject intervals as goal. This cross-section is simplified to accommodate the 2 SWD prospects due to proximity. Based on the correlation, BC&D is targeting an overall injection interval from approximately 3755'-4870' in 22-25-37 and 3670'-4830' in 27-25-37. Both SWD intervals will be verified upon analyses of new logs including mudlogs.



## C-108 ITEM VII – PROPOSED OPERATION

The Javelina 22-25-37 SWD #1 will be operated as a commercial disposal service to area operators to facilitate the disposal of produced water from typical producing formations in the area. Source water will typically be from Bone Spring, Wolfcamp and Delaware production. Analyses from these formations as well as the San Andres are included herein.

BC&D Operating, Inc. does not believe the proposed SWD will have any adverse impact on producing operations in the area. There is no San Andres production within one mile. The area is well east of the Delaware Mountain Group Risk Assessment area and is up on the platform.

The system will be closed utilizing a tank battery facility located on the well site as well as delivery via pipeline. The well and injection equipment will be equipped with pressure limiting devices and volume meters. The annulus, loaded with an inert, anti-corrosion packer fluid, will be monitored for pressure.

The tanks will be equipped with telemetry devices and visual alarms to alert the operator and customers of full tanks or an overflow situation. Any adverse event will be handled expeditiously and reported as the situation may require.

Injection pressure will be 751 psi with a maximum daily rate of 15,000 bwpd is being requested but average rates are expected to be approximately 10,000 bwpd. In the future, BC&D Operating, Inc. may opt to conduct a step rate test if it is determined that greater rates may be required. This would be submitted to OCD as a request for *Injection Pressure Increase*.

Routine maintenance will be ongoing, and any releases will be reported within 24 hours to OCD on form C-141 pursuant to various portions of 19.15.30 NMAC.

The facility will be available for inspections at any time deemed necessary by OCD.

## **C-108 ITEM VII – PRODUCED WATER ANALYSES**

*Source and Disposal Waters are Reasonably Compatible.*

### **Item VII.4 – Water Analysis of Source Zone Water**

Queen, Grayburg, Delaware, Bone Spring, Wolfcamp

### **Item VII.5 – Water Analysis of Disposal Zone Water**

San Andres

*Water analysis summaries follow this page...*

**C-108 Item VII.5 - Produced Water Data  
BC&D Operating, Inc. - Javelina SWDs**

**SOURCE ZONE**

**ARTESIA GROUP - TNSL-YTS-7RVRS**

<b>API No</b>	3002506278	<b>Lab ID</b>	
<b>Well Name</b>	A B REEVES 002	<b>Sample ID</b>	4425
		<b>Sample No</b>	
<b>Location</b>	ULSTR 29 20 S 37 E 1980 N 660 W	<b>Lat / Long</b>	32.54547 -103.27965
		<b>County</b>	Lea
<b>Operator (when sampled)</b>			
	Field EUMONT	<b>Unit</b>	E
<b>Sample Date</b>		<b>Analysis Date</b>	
	Sample Sourc UNKNOWN	<b>Depth (if known)</b>	
	Water Typ		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	184900	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	114000	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	610
iron_mgL		sulfate_mgL	700
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
<b>Remarks</b>			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



**C-108 Item VII.5 - Produced Water Data  
BC&D Operating, Inc. - Javelina SWDs**

**SOURCE ZONE**

**GRAYBURG**

<b>API No</b>	3002506435	<b>Lab ID</b>	
<b>Well Name</b>	HAWK B 1	<b>Sample ID</b>	3029
	012	<b>Sample No</b>	
<b>Location</b>	ULSTR 08 21 S 37 E	<b>Lat / Long</b>	32.48788 -103.18260
	660 S 1980 E	<b>County</b>	Lea
<b>Operator (when sampled)</b>	APACHE CORPORATION		
	Field	PENROSE SKELLY	Unit O
<b>Sample Date</b>	5/18/1999	<b>Analysis Date</b>	6/8/1999
	<b>Sample Sourc</b>		<b>Depth (if known)</b>
	<b>Water Typ</b>		
ph	6.3	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.018	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	18553.1	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	11206.1	conductivity_temp_F	
sodium_mgL	6419.51	carbonate_mgL	0
calcium_mgL	397.02	bicarbonate_mgL	252.464
iron_mgL	1.018	sulfate_mgL	102.818
barium_mgL	1.018	hydroxide_mgL	
magnesium_mgL	182.222	h2s_mgL	40.72
potassium_mgL	313.544	co2_mgL	
strontium_mgL	11.198	o2_mgL	
manganese_mgL		anionremarks	

Remarks

(Produced water data courtesy of NMT Octane NM WAIDS database.)



**C-108 Item VII.5 - Produced Water Data  
BC&D Operating, Inc. - Javelina SWDs**

**SOURCE ZONE**

**GRAYBURG-SAN ANDRES**

<b>API No</b>	3002504266	<b>Lab ID</b>	
<b>Well Name</b>	EUNICE MONUMENT SOUTH U 890	<b>Sample ID</b>	3508
		<b>Sample No</b>	
<b>Location</b>	ULSTR 14 20 S 36 E 660 S 660 E	<b>Lat / Long</b>	32.56718 -103.31810
		<b>County</b>	Lea
<b>Operator (when sampled)</b>	CHEVRON USA INC.		
	Field EUNICE MONUMENT	<b>Unit</b>	P
<b>Sample Date</b>	1/12/2000	<b>Analysis Date</b>	1/14/2000
	<b>Sample Sourc</b>	<b>Depth (if known)</b>	
	<b>Water Typ</b>		
ph	6.38	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.017	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	20081.8	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	10711	conductivity_temp_F	
sodium_mgL	5568.07	carbonate_mgL	0
calcium_mgL	1112.6	bicarbonate_mgL	1342.44
iron_mgL	0.4068	sulfate_mgL	931.572
barium_mgL	0.5085	hydroxide_mgL	
magnesium_mgL	466.803	h2s_mgL	
potassium_mgL	277.641	co2_mgL	
strontium_mgL	12.204	o2_mgL	
manganese_mgL		anionremarks	
<b>Remarks</b>			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



**C-108 Item VII.5 - Produced Water Data  
BC&D Operating, Inc. - Javelina SWDs**

**SOURCE ZONE**

**BLINEBRY**

<b>API No</b>	3002510462	<b>Lab ID</b>	
<b>Well Name</b>	ALLIE M LEE	<b>Sample ID</b>	4013
	001	<b>Sample No</b>	
<b>Location</b>	ULSTR 26 22 S 37 E	<b>Lat / Long</b>	32.36184 -103.12585
	2310 S 330 E	<b>County</b>	Lea
<b>Operator (when sampled)</b>			
	Field BLINEBRY	<b>Unit I</b>	
<b>Sample Date</b>		<b>Analysis Date</b>	
	Sample Sourc DST	<b>Depth (if known)</b>	
	Water Typ		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	143024	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	86800	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	279
iron_mgL		sulfate_mgL	1500
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
<b>Remarks</b>			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



**C-108 Item VII.5 - Produced Water Data  
BC&D Operating, Inc. - Javelina SWDs**

**SOURCE ZONE**

**BONE SPRING**

<b>API No</b>	3002527250	<b>Lab ID</b>	
<b>Well Name</b>	BERRY APN STATE 001	<b>Sample ID</b>	5840
		<b>Sample No</b>	
<b>Location</b>	ULSTR 05 21 S 34 E 1980 S 660 W	<b>Lat / Long</b>	32.50569 -103.49786
		<b>County</b>	Lea
<b>Operator (when sampled)</b>	YATES PETROLEUM CORPORATION		
	<b>Field</b>	BERRY NORTH	<b>Unit</b> L
<b>Sample Date</b>	11/18/1999	<b>Analysis Date</b>	12/1/1999
	<b>Sample Sourc</b>	<b>Depth (if known)</b>	
	<b>Water Typ</b>		
ph	6.2	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.123	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	192871	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	132048	conductivity_temp_F	
sodium_mgL	67071.2	carbonate_mgL	0
calcium_mgL	12761.8	bicarbonate_mgL	162.835
iron_mgL	96.578	sulfate_mgL	444.708
barium_mgL	1.123	hydroxide_mgL	
magnesium_mgL	1372.31	h2s_mgL	3.369
potassium_mgL	2080.92	co2_mgL	
strontium_mgL	554.762	o2_mgL	0
manganese_mgL		anionremarks	
<b>Remarks</b>			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



**C-108 Item VII.5 - Produced Water Data  
BC&D Operating, Inc. - Javelina SWDs**

**SOURCE ZONE**

**DELAWARE**

<b>API No</b>	3002508489	<b>Lab ID</b>	
<b>Well Name</b>	BELL LAKE UNIT	<b>Sample ID</b>	4296
	002	<b>Sample No</b>	
<b>Location</b>	ULSTR 30 23 S 34 E	<b>Lat / Long</b>	32.27001 -103.51086
	660 S 3300 E	<b>County</b>	Lea
<b>Operator (when sampled)</b>			
	Field SWD	<b>Unit</b>	N
<b>Sample Date</b>		<b>Analysis Date</b>	
	<b>Sample Sourc</b> UNKNOWN	<b>Depth (if known)</b>	
	<b>Water Typ</b>		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	52115	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	32200	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	451
iron_mgL		sulfate_mgL	529
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
<b>Remarks</b>			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



**C-108 Item VII.5 - Produced Water Data  
BC&D Operating, Inc. - Javelina SWDs**

**DISPOSAL ZONE**

**SAN ANDRES**

<b>API No</b>	3002523756	<b>Lab ID</b>	
<b>Well Name</b>	LOU WORTHAM 006	<b>Sample ID</b>	3027
		<b>Sample No</b>	
<b>Location</b>	ULSTR 11 22 S 37 E 2310 N 380 W	<b>Lat / Long</b>	32.40711 -103.14079
		<b>County</b>	Lea
<b>Operator (when sampled)</b>	ANADARKO PETROLEUM CORP.		
	Field	EUNICE SOUTH	Unit E
<b>Sample Date</b>	2/19/1998	<b>Analysis Date</b>	3/2/1998
	<b>Sample Sourc</b>		<b>Depth (if known)</b>
	<b>Water Typ</b>		
ph	7.85	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.011	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	14823.9	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	7018.36	conductivity_temp_F	
sodium_mgL	4620.27	carbonate_mgL	0
calcium_mgL	331.608	bicarbonate_mgL	2343.5
iron_mgL	2.022	sulfate_mgL	207.255
barium_mgL	0.7077	hydroxide_mgL	
magnesium_mgL	199.167	h2s_mgL	192.09
potassium_mgL	243.651	co2_mgL	
strontium_mgL	20.22	o2_mgL	
manganese_mgL		anionremarks	
<b>Remarks</b>			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



## C-108 - Item VIII

### Geological Data

The proposed well location on the Central Basin Platform is east of and adjacent to the Delaware Basin. The San Andres offers the best choice for a long-life disposal in this well bore.

Typically the basal member of the San Andres consists of dense zone of dolomite. Above this zone, in the center of the San Andres belt on the Central basin platform and the Northwestern shelf, the San Andres formation consists of limestone and arkosic sands, is up to several hundred feet thick and grades upward and away from the reef into crystalline dolomite. The texture of the dolomites becomes finer on the Northwestern shelf as the proportion of chemically precipitated dolomite increases, and anhydrite becomes present the section, first as small blobs, then as beds (*Jones, 1953*).

Rocks consist of porous and permeable dolomitized carbonates, limestone and finegrained sandstone. They include skeletal grainstones, dolomite, limestone, calcareous and silty sandstones, sponge and algal dolomitized limestone, dolomitized mud and wackestone, and vuggy to cavernous carbonate beds. Carbonate rocks were deposited in open to restricted platforms and platform margins associated with sea-level fluctuations, shelf-margin reef development, evaporites, and sabkha deposits. Reservoir quality is enhanced by selective dolomitization, dissolution, fracturing, and leaching. Reservoirs are contained in the Permian Guadalupian San Andres, Grayburg, Queen, Seven Rivers, and Yates Formations. Individual [formation] thicknesses may range up to hundreds of feet; overall porosities average 12 percent and permeabilities average 18 mD. (*Ball, 1995*).

The San Andres is overlain by the Grayburg and Queen formations and underlain by the Glorieta formation. Some distance is allowed between transitions as no classic sealing strata is present. However, there are some shaley trends above and below the identified interval that will enhance confinement. The perforated completion allows for essential targeting and will assist in preventing upward or downward migration of injected fluids. Overall, the requested interval of 3755 feet to 4870 feet offers good probability of achieving the average desired capacity of 15,000 bwpd.

While much of the production in the area has been plugged out, historically, producing horizons were generally in the Artesia Group including Tansil, Yates, Seven Rivers, Queen and Grayburg. There are no active wells and only 1 P&A'd well within one-half mile of the proposed SWD which penetrate the proposed interval.

## C-108 ITEM XII – GEOLOGIC AFFIRMATION

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.



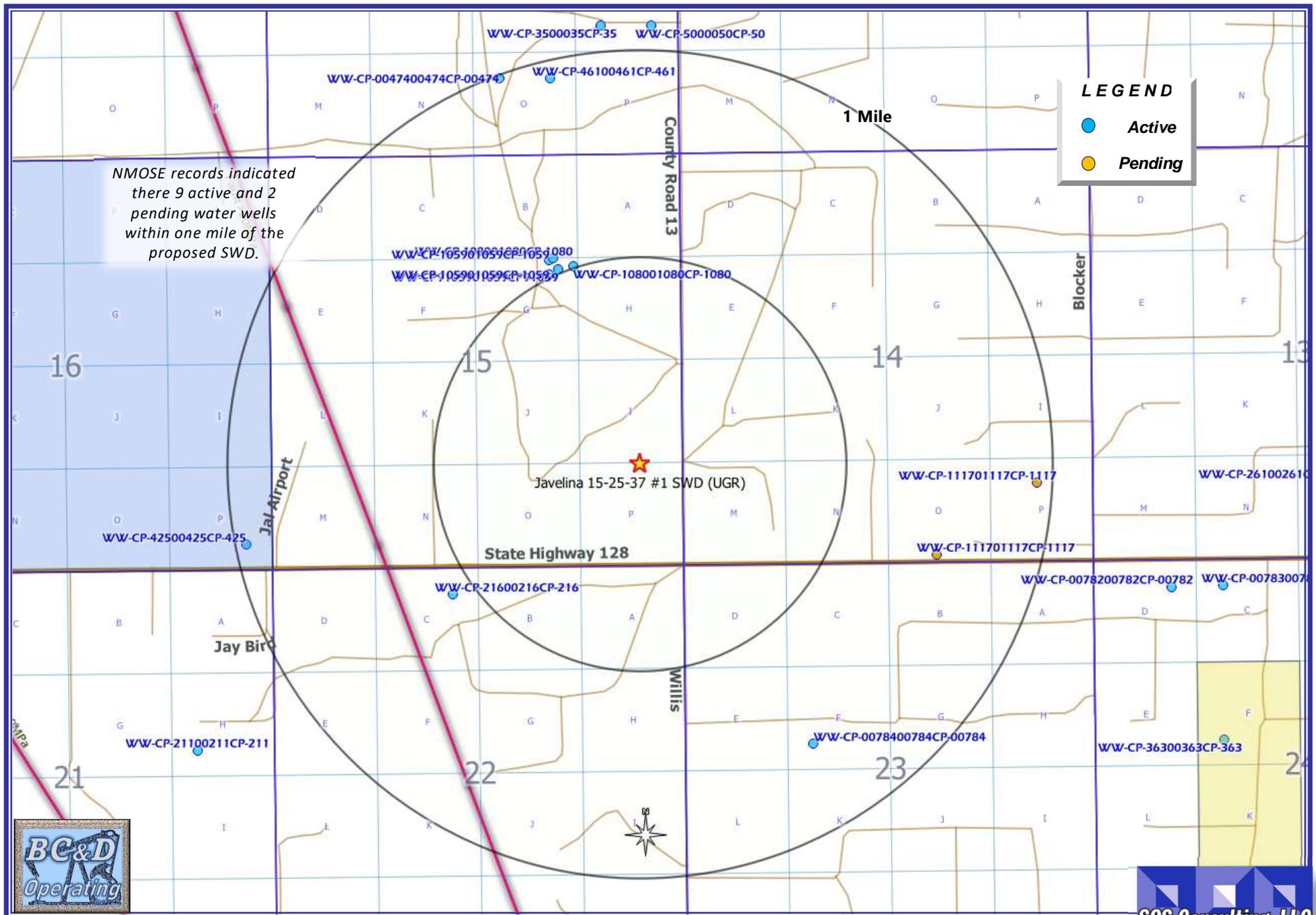
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Ben Stone, Partner  
SOS Consulting, LLC

Project: BC&D Operating, Inc.  
Javelina 22-25-37 and 27-25-37  
Reviewed 5/04/2024

# Javelina 15-25-37 #1 SWD – 1-Mile AOR Water Wells

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)







PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 14, 2023

DONNIE HILL JR.  
BC & D OPERATING  
P. O. BOX 302  
HOBBS, NM 88241

RE: JAVELINA SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 09/05/23 12:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2      Total Haloacetic Acids (HAA-5)  
Method EPA 524.2      Total Trihalomethanes (TTHM)  
Method EPA 524.4      Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B      Total Coliform and E. coli (Colilert MMO-MUG)  
Method EPA 524.2      Regulated VOCs and Total Trihalomethanes (TTHM)  
Method EPA 552.2      Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

BC & D OPERATING P. O. BOX 302 HOBBS NM, 88241	Project: JAVELINA SWD #1 Project Number: JAVELINA 9-25-37 #1 SWD Project Manager: DONNIE HILL JR. Fax To: (575) 942-2005	Reported: 14-Sep-23 08:37
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WWCP 35000 35	H234781-01	Water	05-Sep-23 11:00	05-Sep-23 12:03

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BC & D OPERATING P. O. BOX 302 HOBBS NM, 88241	Project: JAVELINA SWD #1 Project Number: JAVELINA 9-25-37 #1 SWD Project Manager: DONNIE HILL JR. Fax To: (575) 942-2005	Reported: 14-Sep-23 08:37
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**WWCP 35000 35  
H234781-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	220		5.00	mg/L	1	3080401	AC	05-Sep-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3080401	AC	05-Sep-23	310.1	
Chloride*	248		4.00	mg/L	1	3082138	AC	05-Sep-23	4500-Cl-B	
Conductivity*	1570		1.00	umhos/cm @ 25°C	1	3090512	AC	05-Sep-23	120.1	
pH*	7.76		0.100	pH Units	1	3090512	AC	05-Sep-23	150.1	
Temperature °C	19.1			pH Units	1	3090512	AC	05-Sep-23	150.1	
Sulfate*	276		50.0	mg/L	5	3090702	AC	07-Sep-23	375.4	QM-07
TDS*	971		5.00	mg/L	1	3082401	AC	07-Sep-23	160.1	
Alkalinity, Total*	180		4.00	mg/L	1	3080401	AC	05-Sep-23	310.1	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	86.5		2.00	mg/L	10	B232702	AES	12-Sep-23	EPA200.7	
Magnesium*	50.5		1.00	mg/L	10	B232702	AES	12-Sep-23	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B232702	AES	12-Sep-23	EPA200.7	
Sodium*	121		10.0	mg/L	10	B232702	AES	12-Sep-23	EPA200.7	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

BC & D OPERATING P. O. BOX 302 HOBBS NM, 88241	Project: JAVELINA SWD #1 Project Number: JAVELINA 9-25-37 #1 SWD Project Manager: DONNIE HILL JR. Fax To: (575) 942-2005	Reported: 14-Sep-23 08:37
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3080401 - General Prep - Wet Chem**

**Blank (3080401-BLK1)** Prepared & Analyzed: 04-Aug-23

Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

**LCS (3080401-BS1)** Prepared & Analyzed: 04-Aug-23

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120			
Alkalinity, Total	270	10.0	mg/L	250		108	80-120			

**LCS Dup (3080401-BSD1)** Prepared & Analyzed: 04-Aug-23

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	270	10.0	mg/L	250		108	80-120	0.00	20	

**Batch 3082138 - General Prep - Wet Chem**

**Blank (3082138-BLK1)** Prepared & Analyzed: 21-Aug-23

Chloride	ND	4.00	mg/L							
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**LCS (3082138-BS1)** Prepared & Analyzed: 21-Aug-23

Chloride	100	4.00	mg/L	100		100	80-120			
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**LCS Dup (3082138-BSD1)** Prepared & Analyzed: 21-Aug-23

Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	
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**Batch 3082401 - Filtration**

**Blank (3082401-BLK1)** Prepared: 24-Aug-23 Analyzed: 25-Aug-23

TDS	ND	5.00	mg/L							
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

BC & D OPERATING P. O. BOX 302 HOBBS NM, 88241	Project: JAVELINA SWD #1 Project Number: JAVELINA 9-25-37 #1 SWD Project Manager: DONNIE HILL JR. Fax To: (575) 942-2005	Reported: 14-Sep-23 08:37
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3082401 - Filtration**

**LCS (3082401-BS1)** Prepared: 24-Aug-23 Analyzed: 25-Aug-23

TDS	543		mg/L	500		109	80-120			
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**Duplicate (3082401-DUP1)** Source: H234523-01 Prepared: 24-Aug-23 Analyzed: 25-Aug-23

TDS	875	5.00	mg/L		889			1.59	20	
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**Batch 3090512 - General Prep - Wet Chem**

**LCS (3090512-BS1)** Prepared & Analyzed: 05-Sep-23

pH	7.17		pH Units	7.00		102	90-110			
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Conductivity	493		uS/cm	500		98.6	80-120			
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**Duplicate (3090512-DUP1)** Source: H234781-01 Prepared & Analyzed: 05-Sep-23

pH	7.79	0.100	pH Units		7.76			0.386	20	
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Conductivity	1570	1.00	umhos/cm @ 25°C		1570			0.446	20	
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Temperature °C	19.0		pH Units		19.1			0.525	200	
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**Batch 3090702 - General Prep - Wet Chem**

**Blank (3090702-BLK1)** Prepared & Analyzed: 07-Sep-23

Sulfate	ND	10.0	mg/L							
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**LCS (3090702-BS1)** Prepared & Analyzed: 07-Sep-23

Sulfate	17.3	10.0	mg/L	20.0		86.5	80-120			
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**LCS Dup (3090702-BSD1)** Prepared & Analyzed: 07-Sep-23

Sulfate	18.5	10.0	mg/L	20.0		92.3	80-120	6.49	20	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

BC & D OPERATING P. O. BOX 302 HOBBS NM, 88241	Project: JAVELINA SWD #1 Project Number: JAVELINA 9-25-37 #1 SWD Project Manager: DONNIE HILL JR. Fax To: (575) 942-2005	Reported: 14-Sep-23 08:37
--	---	------------------------------

**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B232702 - Total Recoverable by ICP**

**Blank (B232702-BLK1)**

Prepared: 11-Sep-23 Analyzed: 12-Sep-23

Magnesium	ND	0.100	mg/L							
Calcium	ND	0.200	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							

**LCS (B232702-BS1)**

Prepared: 11-Sep-23 Analyzed: 12-Sep-23

Sodium	1.63	1.00	mg/L	1.62		101	85-115			
Potassium	3.81	1.00	mg/L	4.00		95.3	85-115			
Magnesium	9.60	0.100	mg/L	10.0		96.0	85-115			
Calcium	1.91	0.200	mg/L	2.00		95.3	85-115			

**LCS Dup (B232702-BSD1)**

Prepared: 11-Sep-23 Analyzed: 12-Sep-23

Potassium	3.79	1.00	mg/L	4.00		94.8	85-115	0.561	20	
Calcium	1.93	0.200	mg/L	2.00		96.5	85-115	1.27	20	
Sodium	1.63	1.00	mg/L	1.62		100	85-115	0.386	20	
Magnesium	9.75	0.100	mg/L	10.0		97.5	85-115	1.53	20	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>BEED OPERATING, INC.</b>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <b>Donnie Hill Jr</b>		Company:					
Address: <b>PO Box 302</b>		Attn:					
City: <b>Hobbs</b>		Address:					
State: <b>N.M.</b> Zip: <b>88240</b>		City:					
Phone #: <b>575-390-1207</b> Fax #:		State:					
Project #: <b>BEED</b>		Zip:					
Project Name: <b>Javelina SWD #1</b>		Phone #:					
Project Location: <b>Javelina 9-25-37 #1 SWD</b>		Fax #:					
Sampler Name: <b>Donnie Hill Jr / Phillip Little</b>							
FOR LAB USE ONLY							
Lab I.D. <b>H234781</b>	Sample I.D. <b>WWCP 35000 35</b>	(G)RAB OR (C)OMP.	# CONTAINERS <b>3</b>	DATE <b>9/5/23</b>	TIME <b>11:00 AM</b>	<b>Atens : Catons</b>	
		GROUNDWATER	WASTEWATER				
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL					
		OTHER :					

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Relinquished By: **Donnie Hill Jr** Date: **9/5/2023** Time: **12:03 PM**

Received By: **Phillip Little** Date: **9/5/23** Time: **11:00 AM**

Delivered By: (Circle One) **Observed Temp. °C **86.6****

Sampler - UPS - Bus - Other: **Corrected Temp. °C**

Sample Condition: **Intact** (Cool Intact) **Yes** (Cool Intact) **No**

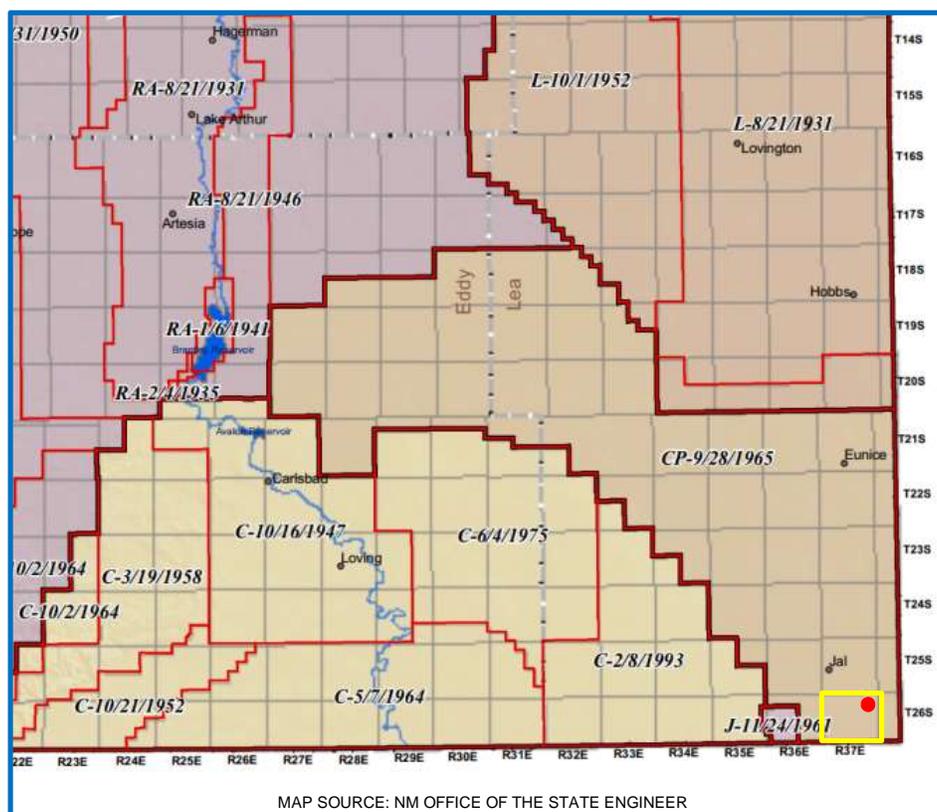
Turnaround Time: **Standard** (Standard) **RUSH** (Add'l Phone #: **None**)

REMARKS: **Donnie Hill Jr Phillips & Well Consultants, P.O.M.**

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com

### C-108 - Item XI

#### Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Capitan Basin, 2 townships east of the Carlsbad Basin.

Fresh water in the area is generally available from the Ogallala; High Plains Aquifer. State Engineer’s records show water wells in 26S-37E with an average depth to water at 212 feet.

There is one (1) water well located within one mile of the proposed SWD and the analysis is included.



## **C-108 ITEM XIII – PROOF OF NOTIFICATION**

### IDENTIFICATION AND NOTIFICATION OF AFFECTED PARTIES

#### **Exhibits for Section**

Affected Parties Map

List of Affected Parties

Notification Letter to Affected Parties

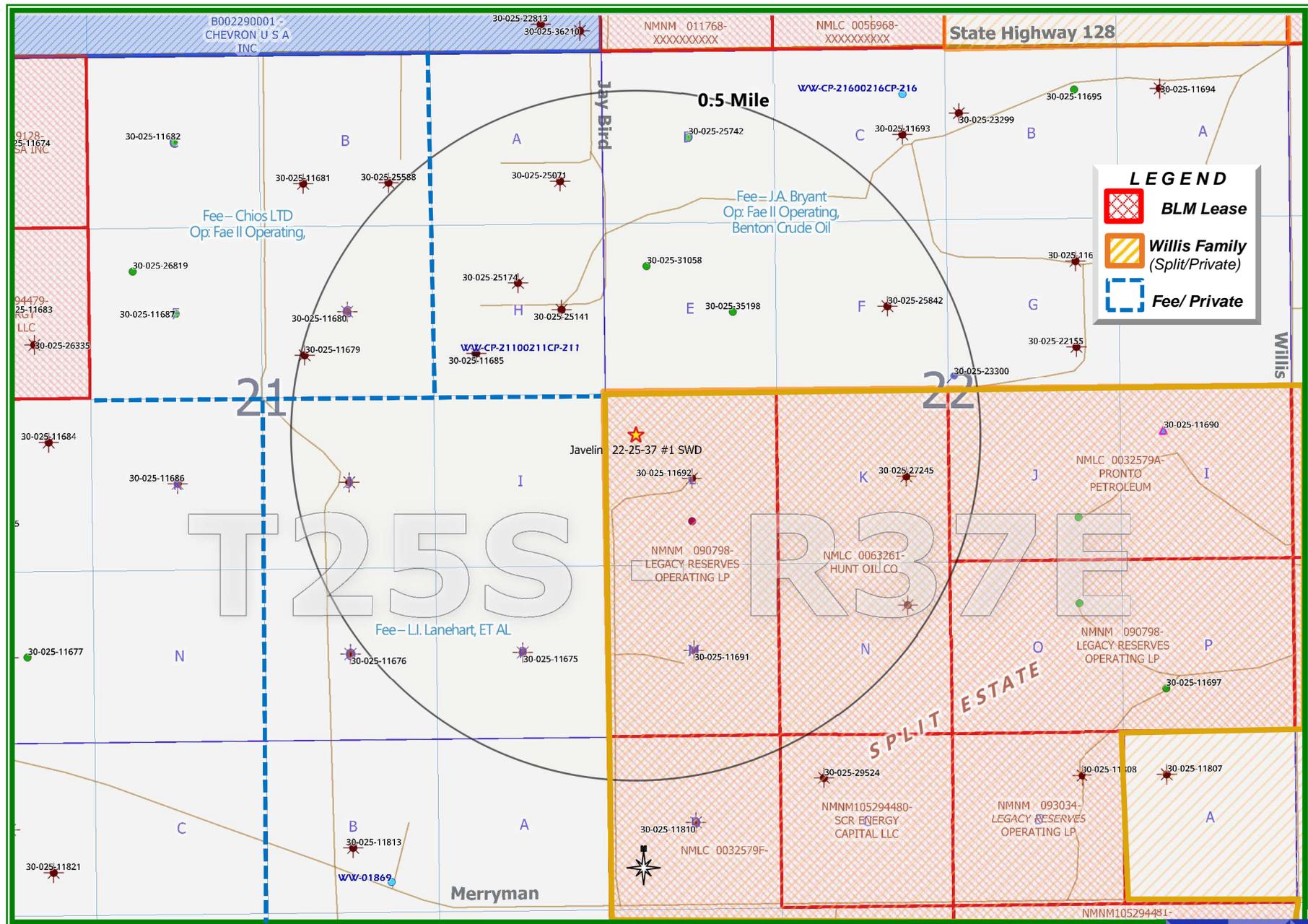
Instructions for PDF Document Access

Proof of Certified Mailing

Affidavit Published Legal Notice

# Javelina 22-25-37 SWD #1 – Leasehold/ Affected Parties Plat

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



## C-108 ITEM XIII – PROOF OF NOTIFICATION AFFECTED PARTIES LIST

**ALL AFFECTED PARTIES ARE PROVIDED A NOTICE LETTER VIA US CERTIFIED MAIL CONTAINING UNIQUE 6 CHARACTER DOCUMENT ACCESS CODES FOR SECURE DOWNLOAD OF A PDF COPY OF THE SUBJECT C-108 APPLICATION. AFFECTED PARTIES MAY ALSO REQUEST A PDF COPY VIA SENT EMAIL.**

"AFFECTED PERSON" MEANS THE DIVISION DESIGNATED OPERATOR; IN THE ABSENCE OF AN OPERATOR, A LESSEE WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILES THE APPLICATION; OR IN THE ABSENCE OF AN OPERATOR OR LESSEE, A MINERAL INTEREST OWNER WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILED THE APPLICATION FOR PERMIT TO INJECT.; PER OCD RULES NMAC 19.15.26.7, A. AND 19.15.26.8, B.2.

### SURFACE OWNER

NOTICE #	ENTITY	US CERTIFIED TRACKING	SOS DOC ACCESS CODE
1	<b>Willis Family Trust</b> P.O. Box 307 Jal, NM 88252	7018 2290 0001 2038 8609	<input checked="" type="checkbox"/>

### OFFSET MINERALS LESSEES and/ or OPERATORS

2	<b>FAE II OPERATING</b> 11757 Katy Freeway, Suite 725 Houston, TX 77079	7018 2290 0001 2038 8616	<input checked="" type="checkbox"/>
3	<b>BENTON CRUDE OIL, LLC</b> 2201 Menaul Blvd NE Ste A Albuquerque, NM 87107	7018 2290 0001 2038 8623	<input checked="" type="checkbox"/>
4	<b>LEGACY RESERVES OPERATING</b> 15 Smith Rd., Ste.3000 Midland TX 79705	7018 2290 0001 2038 8630	<input checked="" type="checkbox"/>
5	<b>HUNT OIL COMPANY</b> 1900 North Akard Street Dallas, Texas 75201-2300	7018 2290 0001 2038 8647	<input checked="" type="checkbox"/>
6	<b>SCR ENERGY CAPITAL, LLC</b> 55 Old Santa Fe Trail, 2nd Floor Santa Fe, NM 87501	7018 2290 0001 2038 8654	<input checked="" type="checkbox"/>
7	<b>LILLIAN IRENE LANEHART ET AL</b> 35108 Deer Trail Alpharetta, GA 30004	7018 2290 0001 2038 8661	<input checked="" type="checkbox"/>

### REGULATORY

8	<b>NM OIL CONSERVATION DIVISION</b> 1220 S. St. Francis Dr. Santa Fe, NM 87505 <b>U.S. DEPARTMENT OF INTERIOR</b> <b>Bureau of Land Management</b> Oil & Gas Division 620 E. Greene St. Carlsbad, NM 88220	7018 2290 0001 2038 8678	<input checked="" type="checkbox"/>
---	---	--------------------------	-------------------------------------

*Filed via OCD  
Online e-Permitting*



June 24, 2024

**NOTIFICATION TO INTERESTED PARTIES**  
**via U.S. Certified Mail – Return Receipt Requested**

To Whom It May Concern:

***The injection interval has been revised subsequent to last notice letter and legal notice publication...***

BC&D Operating, Inc., Hobbs, New Mexico, has made application to the New Mexico Oil Conservation Division to permit for salt water disposal the Javelina 22-25-37 SWD #1. The SWD operation will be for commercial disposal for area operations. As indicated in the notice below, the well is located in Section 22, Township 25 South, Range 37 East in Lea County, New Mexico.

The published notice states that the interval will be from **3,755 feet to 4,780 feet** into the San Andres formation. Following is the notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about June 11, 2024.

**LEGAL NOTICE**

BC&D Operating, Inc., Hobbs, New Mexico is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to permit for salt water disposal its Javelina 22-25-37 SWD #1 (API No.30-025-TBD). The well will be located 2310 feet from the South line and 230 feet from the West line (Unit L) of Section 22, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Produced water from area operators' production will be commercially disposed into the San Andres formation through perforations from 3755' to 4780' at a maximum surface pressure of 751 psi, maximum daily rate of 15,000 bwpd and an average rate of 12,500 bwpd. The subject SWD well is located approximately 1.8 miles east of Jal, New Mexico.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (936)377-5696 or, email info@sosconsulting.us.

***You have been identified as a party who may be interested as an offset lessee or operator.***

You are entitled to a full copy of the application. SOS Consulting has deployed a new app for the explicit secure delivery of a full PDF copy of the application. Any user employed with **Affected Party** may log into the system and when prompted for a *Document Access Code*, enter **0000XX** to View or Download the document as desired. Using the *SOS Client and Affected Party Document Access* app takes about one minute, start to finish instructions are included, and only name, email and company name are needed to access the system.

Thank you for your attention in this matter.

Best regards,



Ben Stone, SOS Consulting, LLC  
 Agent for BC&D Operating, Inc.  
 Cc: Application File

# C-108 - Item XIV

## Proof of Notice (Certified Mail Receipts)

7018 2290 0001 2038 8609

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Extra Services & Fees (check box, add fee as appropriate)	\$3.65	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	Postmark Here
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.68	06/24/2024
Total Postage and Fees	\$8.73	

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Street and City, State

PS Form Instructions

Willis Family Trust  
 P.O. Box 307  
 Jal, NM 88252

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.68	06/24/2024
Total Postage and Fees	\$8.73	

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Street and City, State

PS Form Instructions

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 11757 Katy Freeway, Suite 725  
 Houston, TX 77079

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<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.68	06/24/2024
Total Postage and Fees	\$8.73	

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LEGACY RESERVES OPERATING  
 15 Smith Rd., Ste.3000  
 Midland TX 79705

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<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.68	06/24/2024
Total Postage and Fees	\$8.73	

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Street and City, State

PS Form Instructions

SCR ENERGY CAPITAL, LLC  
 55 Old Santa Fe Trail, 2nd Floor  
 Santa Fe, NM 87501

# C-108 - Item XIV

Proof of Notice (Certified Mail Receipts - cont.)

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<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
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Total Postage and Fees	\$8.73	

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Dallas, Texas 75201-2300

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BENTON CRUDE OIL, LLC  
2201 Menaul Blvd NE Ste A  
Albuquerque, NM 87107

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.68	06/24/2024
Total Postage and Fees	\$8.73	

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LILLIAN IRENE LANEHART ET AL  
35108 Deer Trail  
Alpharetta, GA 30004

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**Carlsbad, NM 88220**

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<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.68	06/24/2024
Total Postage and Fees	\$8.73	

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Street and Apt. #  
City, State, ZIP+4

Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220

PS Form 3800

# 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  
May 03, 2024  
and ending with the issue dated  
May 03, 2024.



Publisher

Sworn and subscribed to before me this  
3rd day of May 2024.



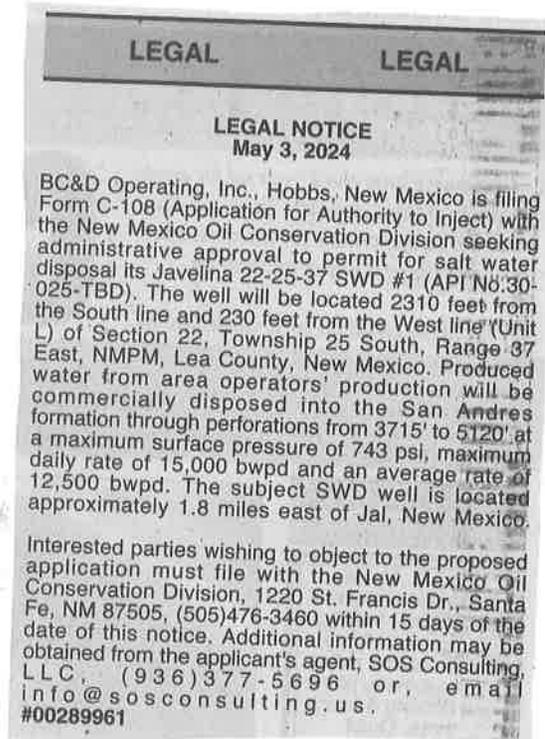
Business Manager

My commission expires

January 29, 2027

(Seal) STATE OF NEW MEXICO  
NOTARY PUBLIC  
GUSSIE RUTH BLACK  
COMMISSION # 1087526  
COMMISSION EXPIRES 01/29/2027

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 publication has been made.



67104420

00289961

BEN STONE  
SOS CONSULTING, LLC.  
21 RED OAK CIRCLE  
POINT BLANK, TX 77364

**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 Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
 Action 357091

**CONDITIONS**

Operator: BC & D OPERATING INC. 2702 N. Grimes ST B Hobbs, NM 88240	OGRID: 25670
	Action Number: 357091
	Action Type: [C-108] Fluid Injection Well (C-108)

**CONDITIONS**

Created By	Condition	Condition Date
mgebremichael	None	7/17/2024