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MAY 09 2017

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE APPLICATION  
OF OWL SWD OPERATING, LLC FOR  
AUTHORIZATION TO INJECT, LEA COUNTY,  
NEW MEXICO**

CASE NO. 15723  
*APPLICANTS*  
*EX A. #5*

**APPLICATION**

OWL SWD Operating, LLC ("OWL"), by and through its undersigned attorneys, applies pursuant to 19.15.26.8 NMAC for an order authorizing the injection of water for disposal into the Yates-Seven Rivers formation in Lea County, New Mexico. In support of its Application, OWL states:

1. OWL is the operator of the following well:

**Bobcat SWD No. 1**  
740' FSL & 705' FEL (Unit P)  
Section 25  
T-25S, R-36E, NMPM  
Lea County, New Mexico

2. The Bobcat SWD No. 1 well is a proposed new well to be drilled to a total depth of approximately 3,060 feet. Applicant proposes to complete the well for injection of water into the Yates-Seven Rivers formation by open hole from 2,915 to 3,060 feet.

3. Injection operations through the well will be conducted at an anticipated average daily injection pressure of 550 PSI (surface pressure) and maximum injection pressure of 580 PSI (surface pressure). OWL proposes injection of water at average daily rates of approximately 25,000 bbls and a maximum daily rate of approximately 30,000 bbls. The source of the injected fluids will be formation water from the Delaware, Bone Spring, Devonian, and Yates-Seven Rivers formations.

4. OWL's proposed injection operation can be conducted in a safe and responsible manner without causing waste, impairing correlative rights or endangering fresh water, public health or the environment.

5. OWL submitted a Form C-108 for authority to inject which has been filed with the Division. The Division advised OWL per letter dated April 20, 2017 that this application will have to be considered by hearing. Included with this application as "Exhibit A" is the completed Form C-108 (excluding copies of files on nearby wells attached to the form).

6. OWL currently injects into the Maralo Sholes B Well No. 2 under authority of Administrative Order SWD-1127. OWL intends the Bobcat SWD No. 1 well to replace the Maralo Sholes B Well No. 2.

WHEREFORE, OWL requests that the Division set this matter for hearing before a duly appointed examiner of the Oil Conservation Division on June 8, 2017, and that after notice and hearing as required by law, enter its order approving the use of the Bobcat SWD No. 1 for the injection of water into the Yates-Seven Rivers formation at the intervals and the pressures, volumes and rates indicated, and making such other and further provisions as the Division determines to be appropriate in accordance with law.

Respectfully submitted,

GALLAGHER & KENNEDY, P.A.

By: 

Dalva L. Moellenberg  
Anthony J. Trujillo  
Rikki-Lee Chavez  
1239 Paseo de Peralta  
Santa Fe, New Mexico 87501  
(505) 982-9523 (Telephone)  
(505) 983-8160 (Fax)

ATTORNEYS FOR OWL SWD Operating, LLC

***Application of OWL SWD Operating, LLC for Authorization to Inject, Lea County, New Mexico.*** Applicant seeks an order authorizing the injection of water for disposal into the Yates-Seven Rivers formation in Lea County, New Mexico in the following well:

**Bobcat SWD No. 1**  
740' FSL & 705' FEL (Unit P)  
Section 25  
T-25S, R-36E, NMPM  
Lea County, New Mexico

Applicant proposes to drill the well at the above location and use it for injection of produced water at depths of 2,915 to 3,060 feet subsurface. The well is located approximately one mile west of Jal, New Mexico.

**EXHIBIT**

**“A”**

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- 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

#### Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

#### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

#### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **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.

Stephen L. Pattee, P.G.

Print or Type Name

Signature

Engineer - Agent for OWL 04-28-2017

Title

Date

steve@lonquist.com

e-mail Address

**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 and Natural Resources**  
**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
Revised July 16, 2013

☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address OWL SWD Operating, LLC 8214 Westchester Drive, Suite 850, Dallas, TX 75255		<sup>2</sup> OGRID Number 308339
		<sup>3</sup> API Number 30-025-
<sup>4</sup> Property Code	<sup>5</sup> Property Name Bobcat SWD	<sup>6</sup> Well No. 1

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	25	25S	36E		740	South	705	East	Lea

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

**9. Pool Information**

Pool Name SWD, Yates - Seven Rivers	Pool Code 96141
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**Additional Well Information**

<sup>11</sup> Work Type N	<sup>12</sup> Well Type SWD	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Private	<sup>15</sup> Ground Level Elevation 3,307'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 3,060'	<sup>18</sup> Formation Yates - Seven Rivers	<sup>19</sup> Contractor TBD	<sup>20</sup> Spud Date ASAP
Depth to Ground water 448'		Distance from nearest fresh water well 2,328'		Distance to nearest surface water +1 mi

<sup>10</sup> We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

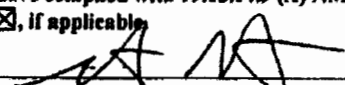
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	12.25"	9.625"	36.0 lb/ft	1,325'	485 sks	Surface
Production	8.75"	7.00"	26.0 lb/ft	2,915'	575 sks	Surface
Tubing	N/A	4.50"	9.50 lb/ft	2,815'	N/A	N/A

**Casing/Cement Program: Additional Comments**

See attached schematic.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Hydraulic/ Blinds, Pipe	2,000 psi	2,000 psi	Schaffer/Cameron

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.  
I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.  
Signature: 

Printed name: Stephen L. Pattee, P.G.

Title: Consulting Engineer- Agent for OWL SWD Operating, LLC

E-mail Address: steve@lonquist.com

Date: 04/28/2017

Phone: 512-600-1774

**OIL CONSERVATION DIVISION**

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached



**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance ☒ Disposal Storage  
Application qualifies for administrative approval? ☒ Yes No

OPERATOR: OWL SWD Operating, LLC

ADDRESS: 8214 Westchester Drive, Suite 850, Dallas, Texas 75255

CONTACT PARTY: Preston Carr

PHONE: 855-695-7937

- 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 ☒ 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: Stephen L. Pattee, P.G.

TITLE: Consulting Engineer - Agent for OWL

SIGNATURE: 

DATE: 04/28/2017

E-MAIL ADDRESS: steve@lonquist.com

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

**IV. 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.**

**V. 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 on the date this application was mailed to them.**

INJECT. A WELL DATA SHEET

Side

OPERATOR: OWL SWD Operating, LLC

WELL NAME & NUMBER: Bobcat SWD No. 1

WELL LOCATION: 740' FSL & 705' FEL  
FOOTAGE LOCATION

P UNIT LETTER      25 SECTION      25S TOWNSHIP      36E RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA  
Surface Casing

See attached

Hole Size: 12.25"      Casing Size: 9.625"  
Cemented with: 485 sx. (100% Excess)      or 875 ft<sup>3</sup>  
Top of Cement: Surface      Method Determined: Circulation  
Long String

Hole Size: 8.75"      Casing Size: 7.0"  
Cemented with: 575 sx. (100% Excess)      or 720 ft<sup>3</sup>  
Top of Cement: Surface      Method Determined: Circulation

Total Depth: 3,060'

Injection Interval  
2,215 feet to 3,060 feet  
(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 4.50" 9.50 lb/ft J-55 ST&C

Lining Material: Duoline

Type of Packer: 7.0" D&L Oil Tools Permapak Single BorePacker Setting Depth: 2,815'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

**Additional Data**

1. Is this a new well drilled for injection?      X Yes      No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

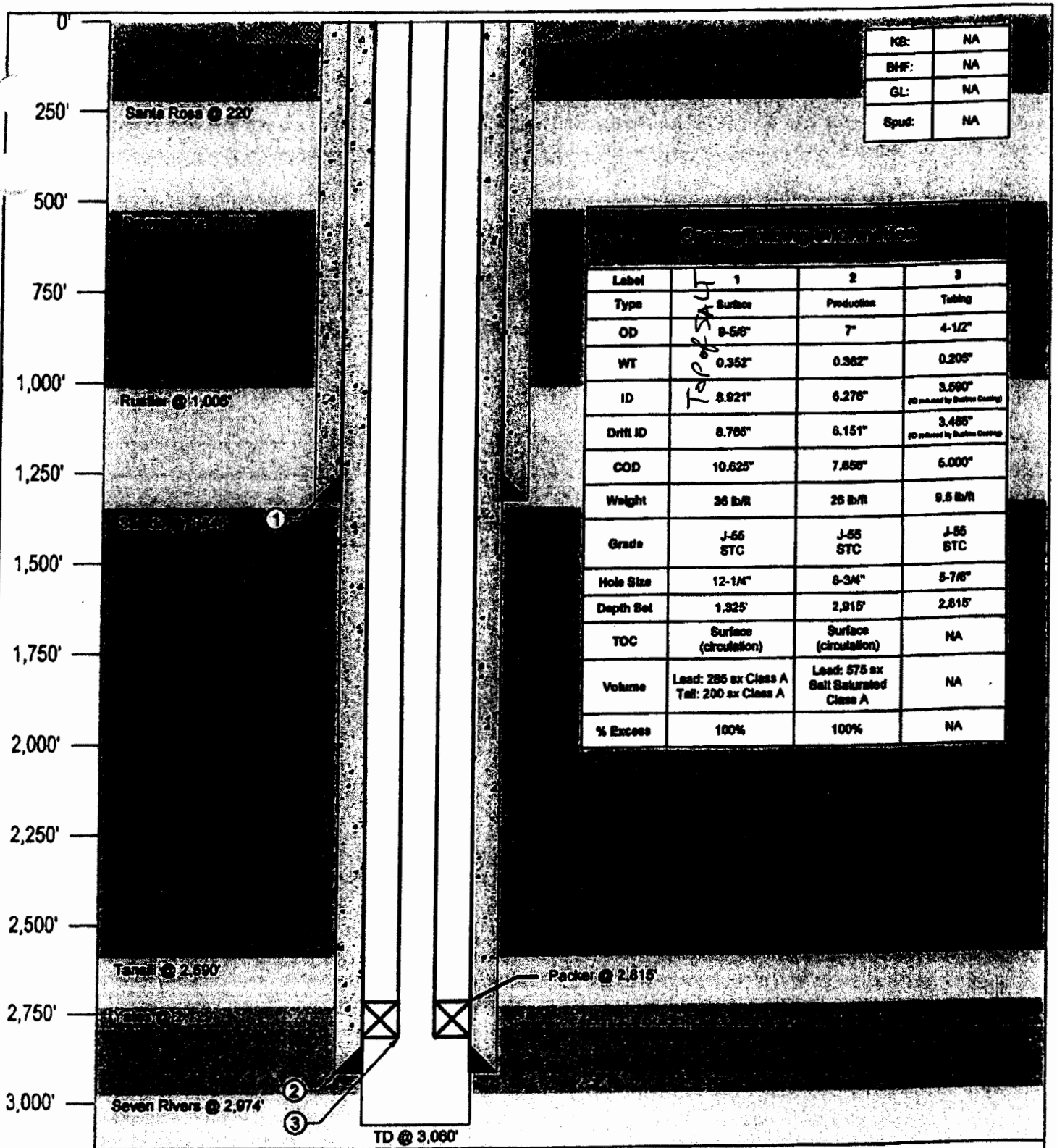
2. Name of the Injection Formation: Yates- Seven Rivers

3. Name of Field or Pool (if applicable): SWD; Yates - Seven Rivers (96141)

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No, this is a new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Tansil @ 2,590'

Yates @ 2,729'Seven Rivers @ 2,974'



<b>LONQUIST</b> FIELD SERVICE AUSTIN HOUSTON WICHITA CALGARY Texas License F-9147 3345 Bee Cave Road, Suite 201 Austin, Texas 78746 Tel: 512.732.9812 Fax: 512.732.9816	OWL SWD Operating, LLC		<b>Bobcat SWD No. 1</b>		
	Country: USA		State/Province: New Mexico		
	Location:		County/Parish: Lea		
	API No:		Survey/STR:		
	State ID No:		Well Type/Status: SWD / New Drill		
Drawn: WHG		Project No:		Date: 4/27/17	
Rev No: 1		Reviewed: SLP		Approved: SLP	
Notes:					

**OWL SWD Operating, Inc.**

**Bobcat SWD No. 1**

**FORM C-108 Supplemental Information**

**III. Well Data**

**A. Wellbore Information**

**1.**

Well information	
Lease Name	Bobcat SWD
Well No.	1
Location	S-25 T-25S R-36E
Footage Location	740' FSL & 705' FEL

**2.**

**a. Wellbore Description**

Casing Information		
Type	Surface	Long String
OD	9.625"	7.0"
WT	0.352"	0.362"
ID	8.921"	6.276"
Drift ID	8.765"	6.151"
COD	10.625"	7.656"
Weight	36.0 #/ft	26.0 #/ft
Grade	J-55, ST&C	J-55, ST&C
Hole Size	12.25"	8.75"
Depth Set	1,325'	2,915'

b. Proposed Cementing Program

Cement Information		
Casing String	Surface	Long String
Lead Cement	12.4 lb/gal 2.24 cf/sk	15.6 lb/gal 1.25 cf/sk
Lead Cement Volume	285 sx	575 sx (37.2% Salt Saturated)
Tail Cement	15.6 lb/gal 1.25 cf/sk	N/A
Tail Cement Volume	200 sx	N/A
Method	Circulate to Surface	Circulate to Surface
Cement Excess	100%	10% in casing 100% in hole
TOC	Surface	Surface

3. Tubing Description

Tubing Information	
OD	4.5"
WT	0.205"
ID	3.590"
Drift ID	3.465"
COD	5.00"
Weight	9.5 #/ft
Grade	J-55, ST&C
Depth Set	2,815'

Tubing will be lined with Duoline.

4. Packer Description

D&L Oil Tools 7.0" Permapack Packer – Single Bore

**B. Completion Information**

1. Injection Formation: Yates – Seven Rivers
2. Gross Injection Interval: 2,915' – 3,060'

Completion Type: Open Hole

3. Well drilled for injection.
4. New drill; no prior perforated intervals.
5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Tansil	2,590'
Yates	2,729'
Seven Rivers	2,974'

**VI. Area of Review**

A table and map have been attached containing information on wells that are present within the one-half mile AOR. For each well within the AOR records and schematics demonstrating completion and P&A, where applicable, have been attached if available through the New Mexico OCD's website.

**VII. Proposed Operation Data**

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 25,000 BPD  
Maximum Volume: 30,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

Average Injection Pressure: 550 PSI (surface pressure)  
Maximum Injection Pressure: 580 PSI (surface pressure)

4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Delaware, Bone Spring, Devonian, and Yates-Seven Rivers formations.
5. There is historical production from the Yates-Seven Rivers formations within one mile of the proposed well location however most of the wells associated with this production have been plugged and abandoned. As such, a chemical analysis of disposal zone formation water is not

required. However, an offset Yates-Seven Rivers water sample analysis has been attached for record purposes.

#### VIII. Geological Data

The Yates Formation is a 150 to 200 ft thick siliciclastic unit in the Gauadalupian Artesia Group. The formation is composed of thick sandstone beds interbedded with thin carbonate and evaporites. It is a poorly consolidated, silty, fine-grained rock with porosities ranging from 15 to 28 percent. The Yates is overlain by thick carbonates and evaporites of the Tansill Formation and underlain by carbonates and evaporites of the Seven Rivers Formation.

The Seven Rivers Formation is also a member of the Artesia Group with the Shattuck sandstone member of the Queen at its base and overlain by the Yates Formation. The Seven Rivers Formation is composed of thick carbonate and evaporite beds. Lower porosities are due to the amount of anhydrite and tight carbonate rocks.

Production from these formations has been depleted for decades and they are most likely under pressured. Therefore, they will be able to take water until reaching initial pressure. Through the higher porosities in the injection interval, secondary porosity and an under-pressured formation, this injection interval will be able to take disposed water economically.

##### A. Injection Zone: Yates – Seven Rivers Formation

Formation	Depth
Santa Rosa	220'
Dewey Lake	522'
Rustler	1,006'
Salado	1,345'
Tansil	2,590'
Yates	2,729'
Seven Rivers	2,974'

##### B. Underground Sources of Drinking Water

The lowermost underground source of drinking water (USDW) is anticipated to be approximately 448' below the surface, and fresh water may be present above the Rustler formation. The top of the Rustler formation is estimated at a depth of 1,006'; therefore, the surface casing will be set at 1,325' which is below the Rustler and just above the top of the Salado salt formation (top of Salado @ 1,345').

#### IX. Proposed Stimulation Program

No proposed stimulation program.

#### X. Logging and Test Data on the Well

There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run. ✓

#### **XI. Chemical Analysis of Fresh Water Wells**

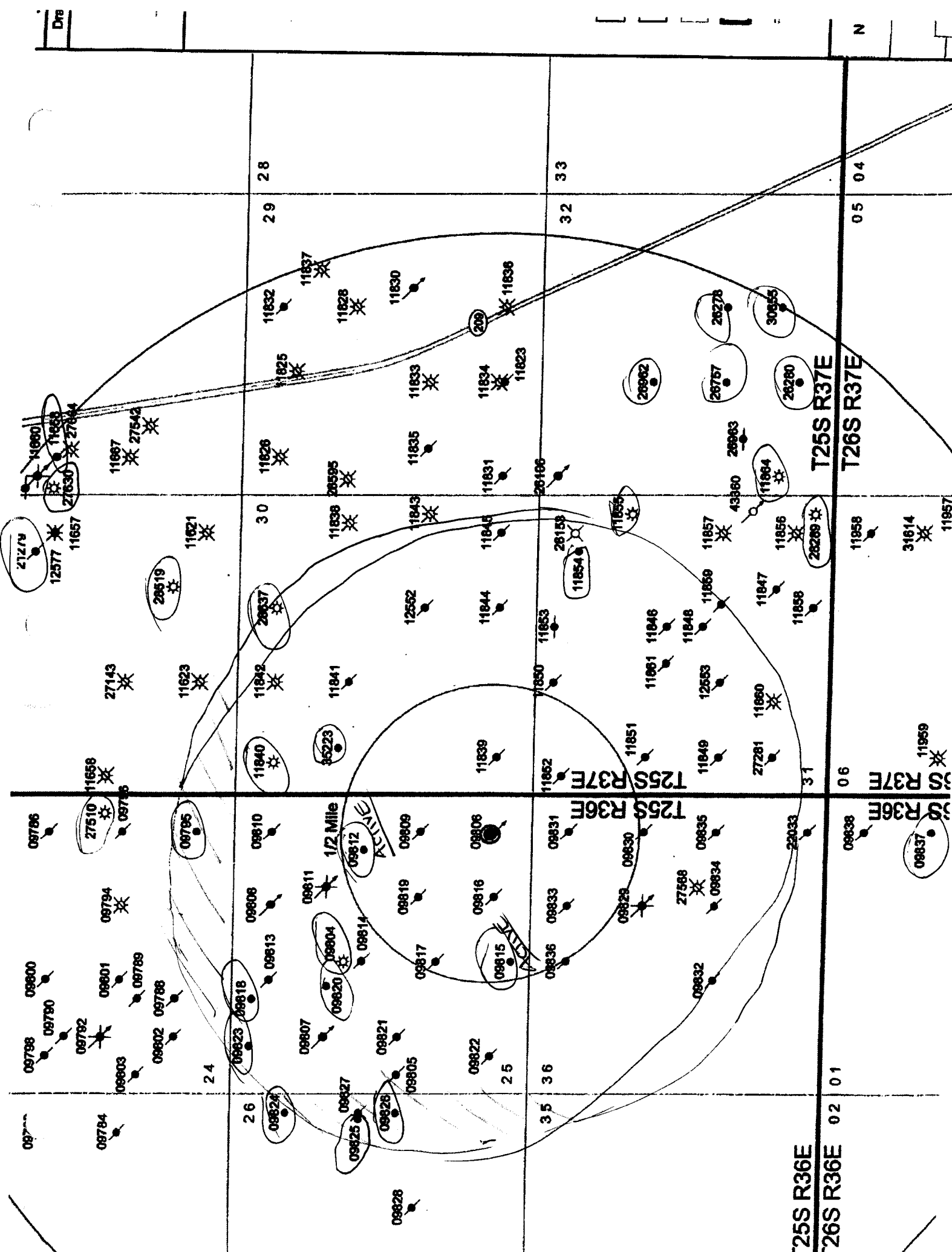
The closest fresh water well (CP-01129-POD2) is located 2,328' from the proposed well location. The well served as a monitoring well for Southern Union Gas Service and is not producing water. POD1 and POD2 both appear to be soil borings only which were plugged upon completion of sampling.

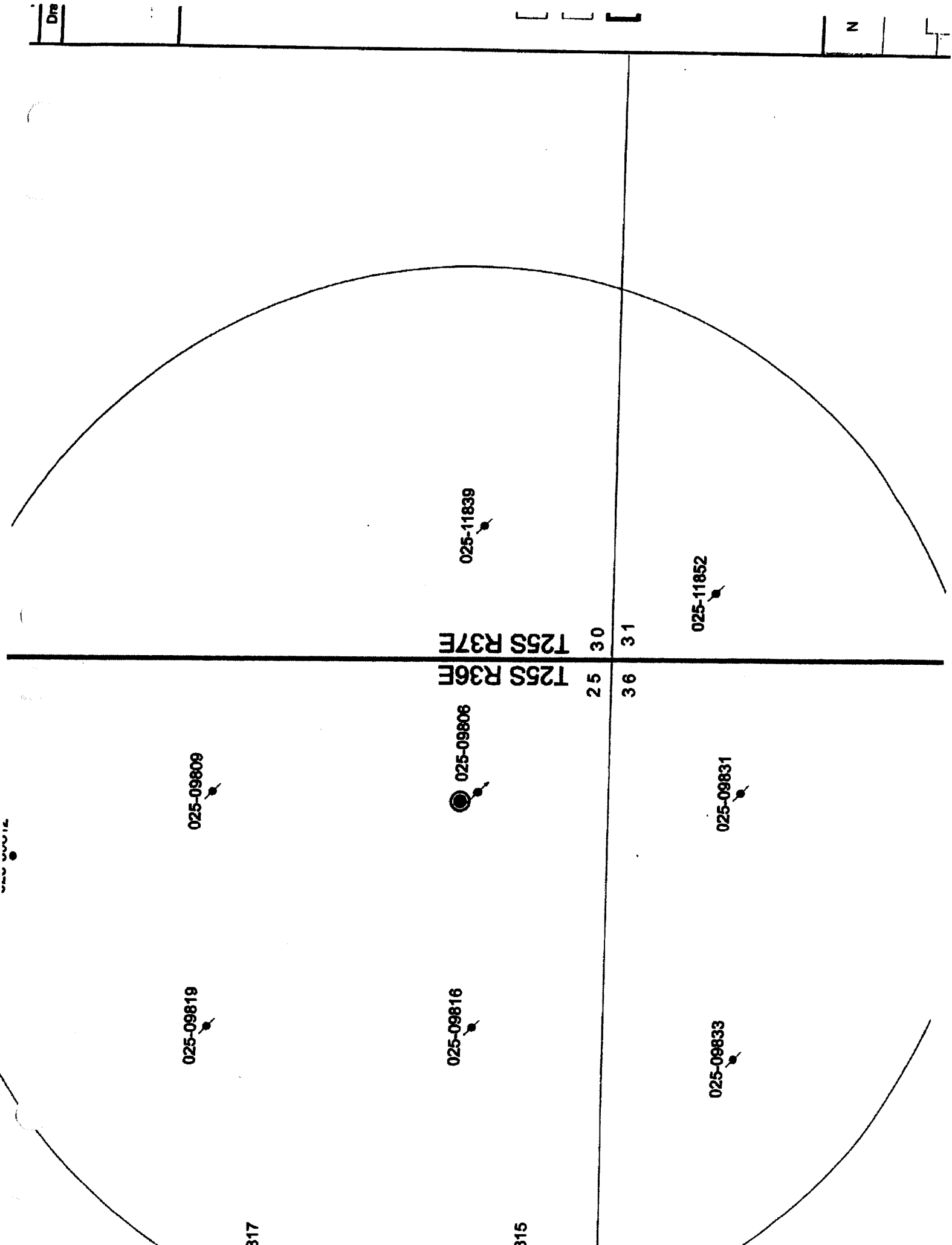
Another well, CP-00790 was also found within a 1-mile AOR of the Bobcat SWD No. 1 location. Records indicate that this well ID has been assigned to a well permit which has expired. A diligent attempt to locate and sample these locations will be made with results submitted to the OCD for record purposes.

A map has been attached featuring the proposed well location for Bobcat SWD No. 1 and the location of CP-01129-POD1, CP-01129-POD2, and CP 00790. In addition, the transaction summaries and water right summaries from the New Mexico Office of the State Engineer have been attached for record purposes.

#### **XII. Affirmative Statement of Examination of Geologic and Engineering Data**

Based on the available engineering and geologic data we find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.





WIND WUWU12

317

315

DB

Z

Half-A \OR  
Bobcat SWD #1

API (30-025-)	Well Name	Well Type	Status	Operator	TD (TVD)	Location	Date Drilled
09806	MARALO SHOLES B #002	SWD	Active	OWL SWD OPERATING, LLC	3055	P-25-25S-36E	5/25/1947
09809	SHOLES B 25 #003	Oil	Plugged	CONOCOPHILLIPS COMPANY	3035	I-25-25S-36E	8/25/1947
09812	SHOLES B 25 #001	Oil	Active	FULFER OIL & CATTLE LLC	2950	H-25-25S-36E	11/5/1940
09815	HUMPHREYS #001	Oil	Active	FULFER OIL & CATTLE LLC	3255	N-25-25S-36E	2/18/1945
09816	SHOLES B #001	Oil	Plugged	MARALO LLC	3220	O-25-25S-36E	7/1/1946
09817	HUMPHREYS #002	Oil	Plugged	MARALO LLC	3257	K-25-25S-36E	5/14/1945
09819	SHOLES B #003	Oil	Plugged	MARALO LLC	3019	J-25-25S-36E	7/6/1947
09831	HUMBLE STATE #003	Oil	Plugged	MARALO LLC	2950	A-36-25S-36E	6/16/1945
09833	PRE-ONGARD WELL #001	Oil	Plugged	PRE-ONGARD WELL OPERATOR	3138	B-36-25S-36E	12/9/1944
11839	PRE-ONGARD WELL #001	Oil	Plugged	PRE-ONGARD WELL OPERATOR	3125	4-30-25S-37E	7/22/1948
11852	SHOLES B #004	Oil	Plugged	MARALO LLC	3105	1-31-25S-37E	10/9/1947

7/2/12  
→  
Conoco  
Phillips  
Oct. 27  
Oct.

1/2 Mile

✓ Chevron USA Inc, Conoco  
Inc, Apache Corp,  
ZPZ Delaware LLC

T25S R36E  
T25S R37E

31

✓ Chevron  
USA Inc

✓ COG  
Operating  
LLC

✓ Legacy  
Reserves  
Operating, LP

✓ Federal  
Abstract  
Company

✓ Fuller Oil  
& Cattle  
Co., LLC

**Notification Submittals:**

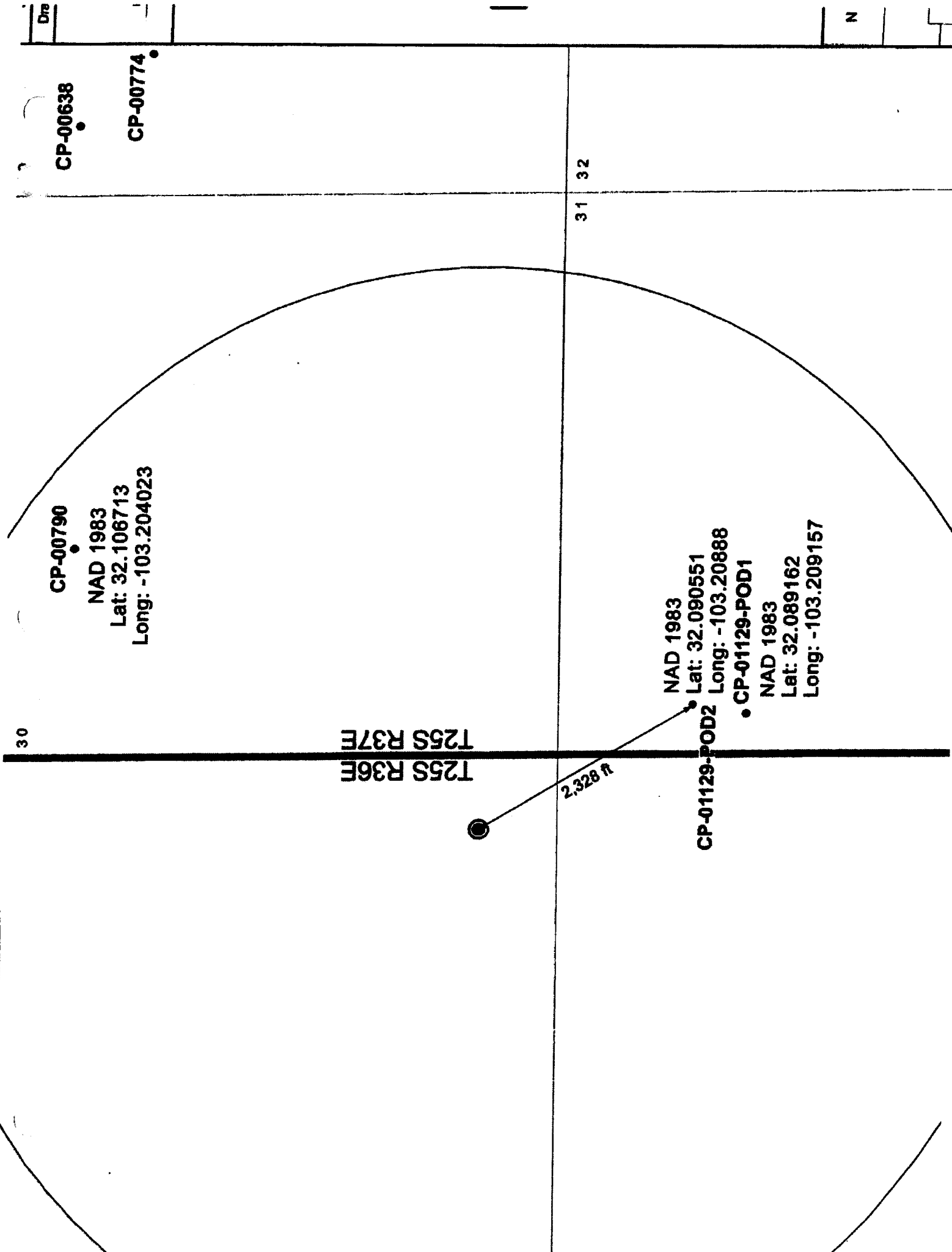
The following is a list of off-set operators and surface landowner to be noticed regarding this application.

Notices will be issued on Monday, May 1, 2017. An affidavit of notice submittals and proofs of certified mail will be submitted to the OCD under separate cover.

Bobcat SWD No. 1 Notice List				
Notice	Contact	Address		Phone Number
Apache Corp		2000 POST OAK BLVD STE 100	HOUSTON TX 77056	
Chevron USA Inc		6301 DEAUVILLE	MIDLAND TX 79706	
COG Operating LLC	Kanicia Castillo	600 W. Illinois Ave	Midland, TX 79701	432-685-4332
CONOCOPHILLIPS CO		PO BOX 7500	BARTLESVILLE OK 74005	
Federal Abstract Company		P.O. Box 2288	Santa Fe, NM 87501	505-982-5537
Fulfer Oil & Cattle Co., LLC	Gregg Fulfer	PO BOX 1224	JAL NM 88252	
Legacy Reserves Operating, LP	John Eklund	P.O. Box 10848	Midland, TX 79702	432-221-6370
ZPZ Delaware I LLC		2000 POST OAK BLVD STE 100	HOUSTON TX 77056	

**LEGAL NOTICE**  
**May 3, 2017**

OWL SWD Operating, LLC, 8214 Westchester Dr., Suite 850, Dallas, Texas 75255, is filling Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well Bobcat SWD No. 1. The proposed well will be located 740' FSL & 706' FEL in Section 25, Township 25S, Range 36E in Lea County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Yates and Seven Rivers Formations (determined by offset log analysis) through an open-hole completion between a maximum applied for top of 2,915' to a maximum depth of 3,060'. The maximum surface injection pressure will be 580 psi with a maximum rate of 30,000 BWPD. Interested parties opposing the action must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days. Additional information can be obtained from the applicant's agent, Lonquist & Co., LLC, at (512) 600-1774. #31750



Dra

N

CP-00638

CP-00774

CP-00790

NAD 1983

Lat: 32.106713

Long: -103.204023

NAD 1983

Lat: 32.090551

Long: -103.20888

CP-01129-POD1

NAD 1983

Lat: 32.089162

Long: -103.209157

CP-01129-POD2

T25S R36E  
T25S R37E

2,328 ft

**MITCHELL ANALYTICAL LABORATORY**

2638 Faudree  
Odessa, Texas 79765-8538  
561-5579

Company: **WadeCo Specialties, LLC**

Well Number: Bobcat SWD T/P  
Lease: OWL  
Location: WC56428  
Date Run: 2/16/2017  
Lab Ref #: 17-feb-h25945

Sample Temp: 69.98  
Date Sampled: 2/9/2017  
Sampled by: Wade Havens  
Employee #:   
Analyzed by: GR

### *Dissolved Gases*

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H <sub>2</sub> S)	5.00	16.00	.31
Carbon Dioxide	(CO <sub>2</sub> )	900.00	22.00	40.91
Dissolved Oxygen	(O <sub>2</sub> )	.40	8.00	.05

### Cations

Calcium	(Ca++)	5,708.40	20.10	284.00
Magnesium	(Mg++)	790.56	12.20	64.80
Sodium	(Na+)	47,829.56	23.00	2,079.55
Barium	(Ba++)	NOT ANALYZED		
Manganese	(Mn+)	1.25	27.50	.05
Strontium	(Sr++)	NOT ANALYZED		

### Anions

Hydroxyl	(OH-)	.00	17.00	.00
Carbonate	(CO3=)	.00	30.00	.00
BiCarbonate	(HCO3-)	733.20	61.10	12.00
Sulfate	(SO4=)	660.00	48.80	13.52
Chloride	(Cl-)	83,892.18	35.50	2,363.16

Total Iron (Fe)	23.29	18.60	1.25
Total Dissolved Solids	140,543.84		
Total Hardness as CaCO3	17,512.30		
Conductivity MICROMHOS/CM	174,800		

pH	6.010	Specific Gravity 60/60 F.	1.098
----	-------	---------------------------	-------

**CaSO<sub>4</sub> Solubility @ 80 F.**                      38.55MEq/L,                      CaSO<sub>4</sub> scale is unlikely

**CaCO<sub>3</sub> Scale Index**

70.0	.125	100.0	.445	130.0	1.005
80.0	.215	110.0	.705	140.0	1.005
90.0	.445	120.0	.705	150.0	1.345

*WadeCo Specialties, LLC*

General Information About Sample 2001			
ASPARTA FERRAL			
API	540520771	Sample Number	000001
Unit/Section / Transverse Sample	5/24/2007/04	Field	000001
County		Formation	000001
State	PA	Depth	000001
Latitude	40.71230, -100.11198	Sample Source	000001
Longitude	40.71230, -100.11198	Water Type	000001
ITD (mg/L)	000001	Analysis Details (DDYYYY)	
Sample Description (DDYYYY)			
Remarks (Free option)			
Cation Information (mg/L)		Anion Information (mg/L)	
Potassium (K)		Sulfate (SO <sub>4</sub> )	1100
Sodium (Na)		Chloride (Cl)	1000
Calcium (Ca)		Carbonate (CO <sub>3</sub> )	
Magnesium (Mg)		Deuterium (D <sub>2</sub> O)	1220
Strontium (Sr)		Nitrate (NO <sub>3</sub> )	
Manganese (Mn)		Nitrogen Sulfide (N <sub>2</sub> S)	
Selenium (Se)		Carbon Dioxide (CO <sub>2</sub> )	
Iron (Fe)		Oxygen (O)	

7015 1520 0002 7362 7653

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Street

City, State, Zip

ZPZ Delaware I, LLC  
2000 Post Oak Blvd, Suite 100  
Houston, Texas 77056

PS Form 3800, April 2015 PSN 7530-02-000-9047

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City, State, Zip

New Mexico Energy Mineral, &  
Natural Resources Dept. Oil  
Conservation Division, District 1  
1625 North French Drive  
Hobbs, New Mexico 88240

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Street

City, State, Zip

Fulfer Oil & Cattle Co., LLC  
Attn: Gregg Fulfer  
P. O. Box 1224  
Jal, New Mexico 88252

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Street

City, State, Zip

Legacy Reserve Operating, LP  
Attn: John Eklund  
P. O. Box 10848  
Midland, Texas 79702

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Total Postage

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Sent To

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Street and Apt

City, State, Zip

Apache Corp.  
2000 Post Oak Blvd, Suite 100  
Houston, Texas 77056

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Street and Apt

City, State, Zip

Chevron USA, Inc.  
6301 Deauville  
Midland, Texas 79706

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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Total P	
Sent To	Federal Abstract Company
Street	P. O. Box 2288
City, St	Santa Fe, New Mexico 87501
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<input type="checkbox"/> Return Receipt (hardcopy)	\$
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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Total P	
Sent To	COG Operating LLC
Street	Attn: Kanicia Castillo
City, St	600 W. Illinois Avenue Midland, Texas 79701
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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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Total P	
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Street	P. O. Box 7500
City, St	Bartlesville, Oklahoma 74005
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