

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 \_\_\_\_\_

- SWD 1593  
 - Owl SWD Operating, LLC  
 308339  
 well  
 - Ms CLOY SWD well #2  
 30-025-Pending  
 Pool  
 - SWD, Devonian  
 26107

[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

RECEIVED OGD  
 2015 OCT 19 AM 11:11

[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.

Ben Stone  
 \_\_\_\_\_  
 Print or Type Name

\_\_\_\_\_  
 Signature

Agent for Owl SWD Operating, LLC 10/17/15  
 \_\_\_\_\_  
 Title Date  
 ben@sosconsulting.us  
 \_\_\_\_\_  
 e-mail Address



October 15, 2015

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

Attn: Mr. David Catanach, Director

*Re: Application of Owl SWD Operating, LLC to permit for salt water disposal the proposed well McCloy SWD No.2 well, to be located in Section 15, Township 24 South, Range 32 East, NMPPM, Lea County, New Mexico.*

Dear Mr. Catanach,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to for disposal in the undrilled McCloy SWD Well No.2.

Owl SWD Operating seeks to create additional solutions for disposal in various locations 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 September 27, 2015 edition of the Hobbs News-Sun and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included in this application. The application also includes wellbore schematics, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on private land and state minerals; the C-101 APD is in process at the Hobbs District Office of OCD.

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.

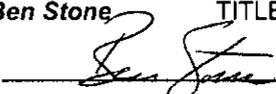
Ben Stone, Partner  
SOS Consulting, LLC  
Agent for Owl SWD Operating, LLC

Cc: Application attachment and file

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: **Salt Water Disposal** and the application *qualifies* for administrative approval.
- II. OPERATOR: **Owl SWD Operating, LLC**  
ADDRESS: **8214 Westchester Dr., Ste. 850, Dallas, TX 75255**
- CONTACT PARTY: **Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850**
- III. WELL DATA: **To be Drilled (BLM APD in Process). All well data and applicable wellbore diagrams 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 is one well in the AOR, P&A'd but this well does not penetrate the proposed Devonian 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.
- 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. **No stimulation program is proposed at this time.**
- \*X. **There is no applicable logging and test data on the well. After drilling, logs will be run from TD to approximately 16,000' and will be submitted to the OCD.**
- \*XI. **There are 3 domestic water wells within one mile of the proposed salt water disposal well. Analysis will be forwarded upon receipt.**
- 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. ATTACHED**  
**There are 11 offset lessees and/or operators within ½ mile and State & BLM - all have been noticed. ATTACHED**
- 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 Owl SWD Operating, LLC**

SIGNATURE:  DATE: **10/17/2015**

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:

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 which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

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

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

XIV. PROOF OF NOTICE *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.**

## **C-108 - Item III**

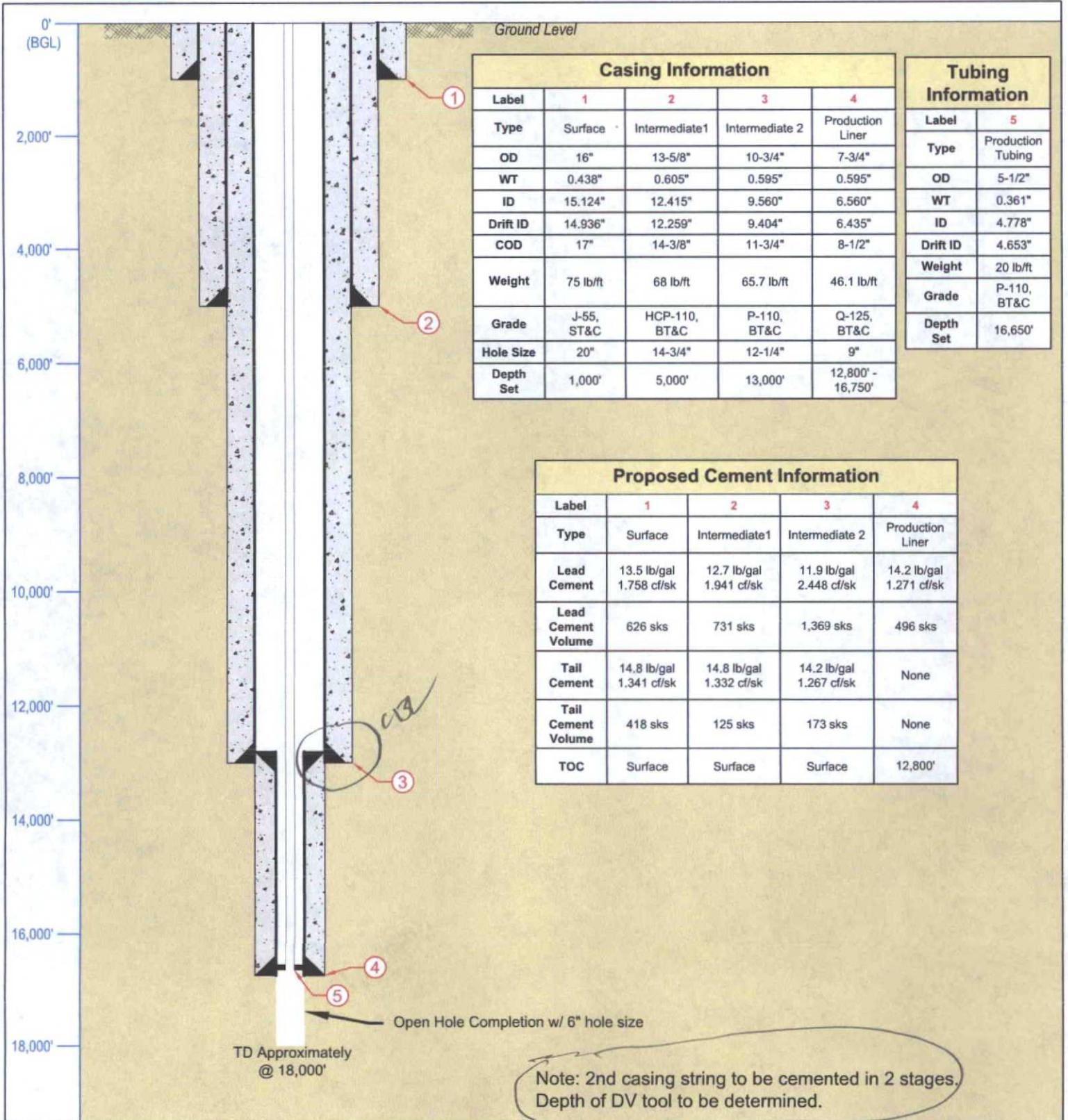
Subject Well Data

### **WELL SCHEMATIC**

**Proposed**

With Construction Data Detail

(Approved C-101 attached.)



Casing Information				
Label	1	2	3	4
Type	Surface	Intermediate1	Intermediate 2	Production Liner
OD	16"	13-5/8"	10-3/4"	7-3/4"
WT	0.438"	0.605"	0.595"	0.595"
ID	15.124"	12.415"	9.560"	6.560"
Drift ID	14.936"	12.259"	9.404"	6.435"
COD	17"	14-3/8"	11-3/4"	8-1/2"
Weight	75 lb/ft	68 lb/ft	65.7 lb/ft	46.1 lb/ft
Grade	J-55, ST&C	HCP-110, BT&C	P-110, BT&C	Q-125, BT&C
Hole Size	20"	14-3/4"	12-1/4"	9"
Depth Set	1,000'	5,000'	13,000'	12,800' - 16,750'

Tubing Information	
Label	5
Type	Production Tubing
OD	5-1/2"
WT	0.361"
ID	4.778"
Drift ID	4.653"
Weight	20 lb/ft
Grade	P-110, BT&C
Depth Set	16,650'

Proposed Cement Information				
Label	1	2	3	4
Type	Surface	Intermediate1	Intermediate 2	Production Liner
Lead Cement	13.5 lb/gal 1,758 cf/sk	12.7 lb/gal 1,941 cf/sk	11.9 lb/gal 2,448 cf/sk	14.2 lb/gal 1,271 cf/sk
Lead Cement Volume	626 sks	731 sks	1,369 sks	496 sks
Tail Cement	14.8 lb/gal 1,341 cf/sk	14.8 lb/gal 1,332 cf/sk	14.2 lb/gal 1,267 cf/sk	None
Tail Cement Volume	418 sks	125 sks	173 sks	None
TOC	Surface	Surface	Surface	12,800'

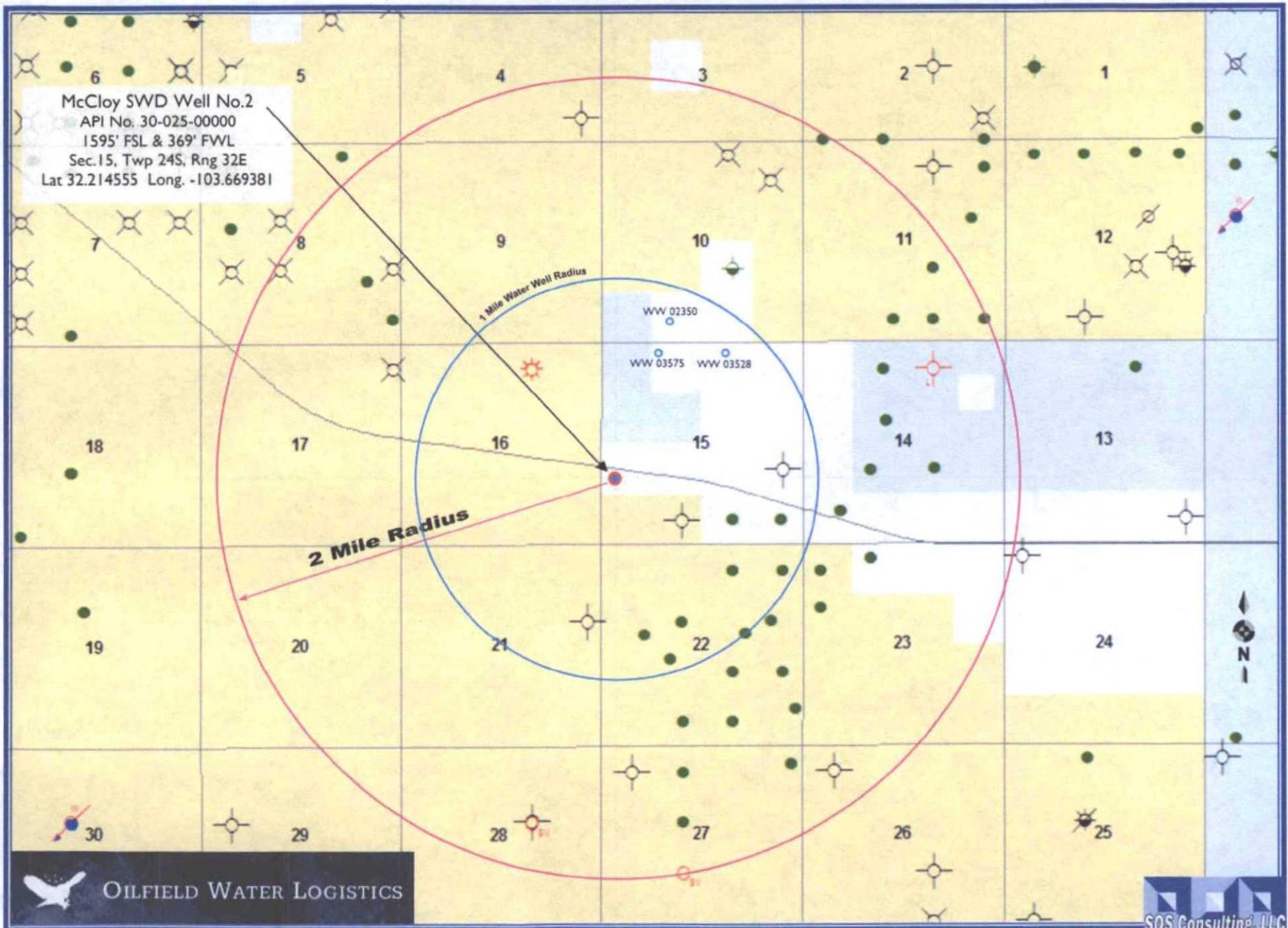
**LONQUIST**  
FIELD SERVICE  
AUSTIN HOUSTON WICHITA CALGARY  
Texas License F-8652  
3345 Bee Cave Road, Suite 201  
Austin, Texas 78746  
Tel: 512.732.9812  
Fax: 512.732.9816

OWL SWD Operating, Inc.
Country: USA
Survey/STR:
API No.:
State ID No.:
Drawn: MMC
Rev No: 4

McCloy - Devonian SWD	
State/Province: New Mexico	County/Parish:
Site:	Status: To Be Drilled
Field:	Ground Elevation:
Project No: 1116	Date: 3/29/2015
Reviewed: SLP	Approved: SLP
Notes:	

# McCloy SWD Well No.1 - Area of Review / 2 Miles

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

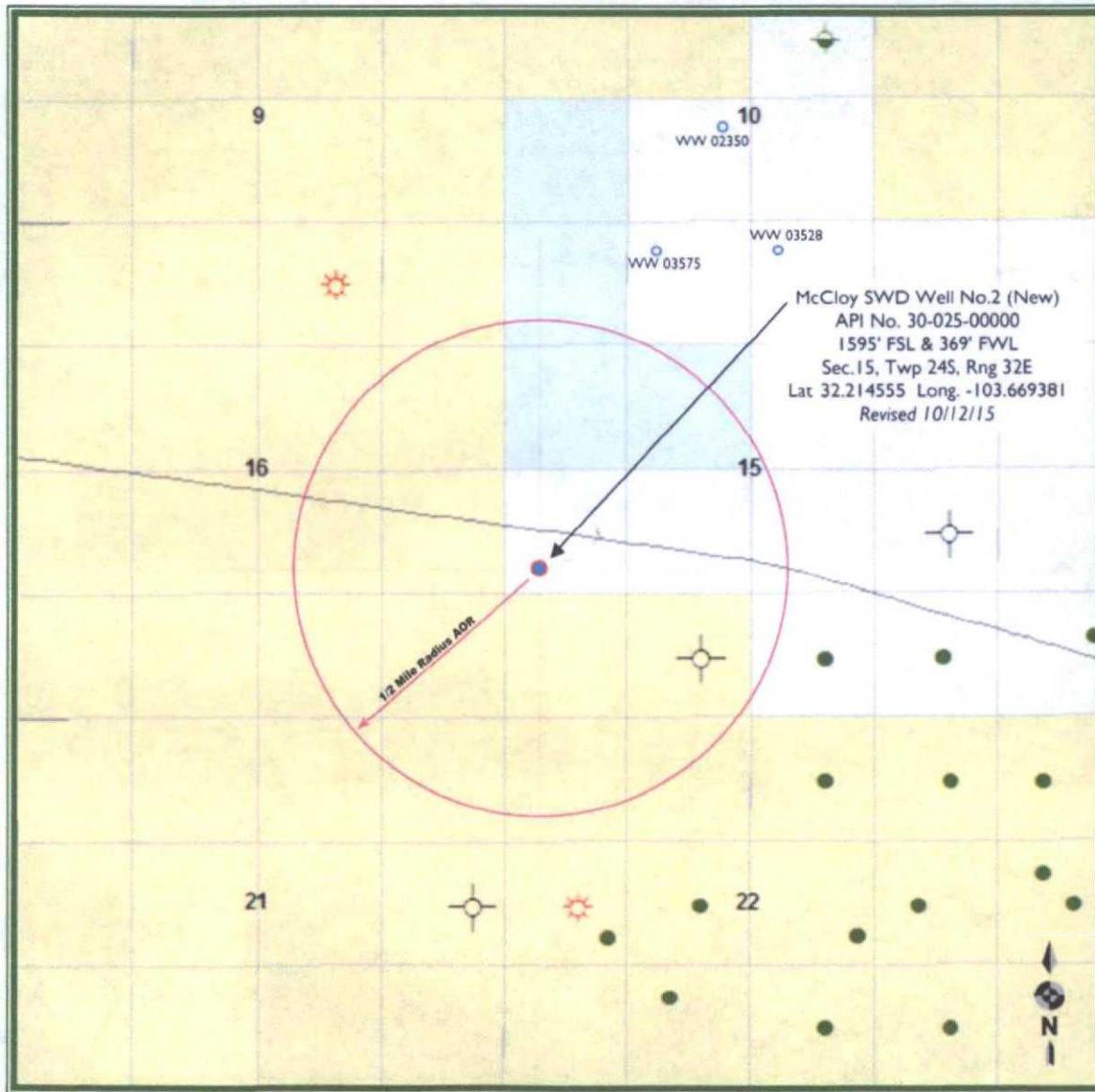


OILFIELD WATER LOGISTICS

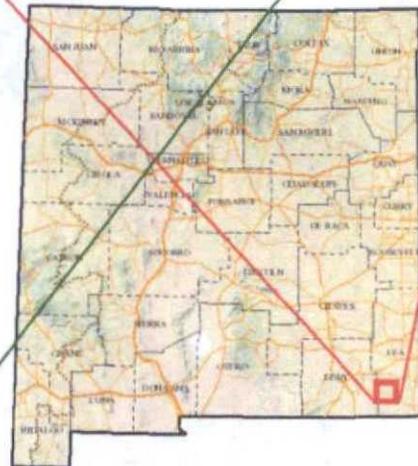


# McCloy SWD Well No.2 - Area of Review / Overview Map

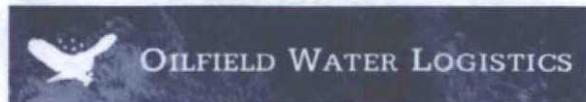
(Attachment to NMOCD Form C-108 - Item V)



~27.7 miles East of Malaga, NM



Lea County, New Mexico



## **C-108 ITEM VII – PROPOSED OPERATION**

### **McCloy SWD Well No.2**

#### ***Commercial SWD Facility***

Upon approval of all permits for SWD, operations would begin within 30 days. Completion of the well operations will take six to seven weeks. Facility construction including installation of the tank battery, berms, plumbing and other and associated equipment would be occurring during the same interval but at a different location from the well. In any event, it is not expected for the construction phase of the project to last more than 60 days, depending on availability of contractors and equipment. At the time of this submittal, and subject to the availability of the drilling contractor, the anticipated start date is November 15, 2015.

#### ***Configure for Salt Water Disposal***

Prior to commencing any work, an NOI sundry(ies) will be submitted to configure the well for SWD and will detail the completion workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD test procedures. (Notify NMOCD 24 hours prior.) The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity.

#### ***Operational Summary***

The SWD facility will be fenced with only the offloading station located outside so that trucks may access for load disposal 24/7.

The well and injection equipment will be a closed system and 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.

Anticipated daily maximum volume is 20,000 bpd and an average of 15,000 bpd at a maximum surface injection pressure of 3350 psi (.2 psi/ft gradient) with an average pressure of approximately 2200 psi.

Potential releases will be contained and cleaned up immediately. The operator shall repair or otherwise correct the situation within 48 hours before resuming operations. OCD will be notified within 24 hours of any release greater than 5 bbls. If required, remediation will start as soon as practicable. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as necessary and appropriate.

# C-108 - Item VII.5

## Water Analysis - Disposal Zone - DEVONIAN

NM WAIDS DATA				
S-T-R	FIELD	FORMATION	TDS	CHLRD
24-23S-29E	REMUDA	DEVONIAN	64582	37500
24-23S-29E	REMUDA	DEVONIAN	56922	29000
06-23S-34E	BELL LAKE NORTH	DEVONIAN	71078	42200
34-23S-34E	ANTELOPE RIDGE	DEVONIAN	80187	47900

## Water Analysis - Source Zone - BONE SPRING



Requested by: T. Ratliff

Laboratory Analysis  
Endurance  
Jazzmaster 17 State #4H

Sample Date: 1/31/2014  
Lea Co. NM

		Water Analysis Measurements		Cations (y)		Anions (z)	
	mg/L		mg/L		mg/L		mg/L
Oxygen (mg/L)	100	O <sub>2</sub> in Water (ppm)	n/a	Barium (Ba)	0	Carbonate (CO <sub>3</sub> )	0
Carbon Dioxide (mg/L)	00 MB	Specific Gravity	1.150	Calcium (Ca)	18.440	Bicarbonate (HCO <sub>3</sub> )	10.00
Hydrogen Sulfide (mg/L)	0.0	Total Dissolved Solids (TDS)	180.500	Magnesium (Mg)	300	Chloride (mg/L)	118.520
pH	5.7	(mg/L) Ca	180.500	Sodium (Na) Ca	54.270	Sulfate (SO <sub>4</sub> )	319
Temperature °F	73	Total Hardness (mg/L)	18.000	Iron (Fe)	100		
				Manganese (Mn)	0.00		

## Water Analysis - Source Zone - DELAWARE

P. O. BOX 1440  
MCKINNEY, TEXAS 75069  
PH: 972.323.4141

Martin Water Laboratories, Inc.

RESULT OF WATER ANALYSES

P. O. BOX 1440  
MCKINNEY, TEXAS 75069  
PHONE: 972.323.4141

LABORATORY NO: 99293

TO: Mr. Ian Small SAMPLE RECEIVED: 9-16-92

P. O. Box 11810, Midland, TX 79710 RESULTS REPORTED: 9-18-92

COMPANY: Meridian Oil Company LEASE: Dagger Lake #1

FIELD OR POOL: Wildcat

SECTION:        BLOCK:        SURVEY:        COUNTY: Lea STATE: NM

SOURCE OF SAMPLE AND DATE TAKEN: NO 1 Recovered water - taken from Dagger Lake #1, 9-9-92

NO 2:       

NO 3:       

NO 4:       

REMARKS: Delaware

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1			
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1462			
pH when Sampled				
pH when Reported	6.26			
Barium as Ba	1.66			
Total Hardness as CaCO <sub>3</sub>				
Calcium as Ca	50.500			
Magnesium as Mg	18.000			
Sodium and Potassium	1.335			
Sulfate as SO <sub>4</sub>	68.483			
Chloride as Cl	9.67			
Iron as Fe	140.618			
Barium as Ba	90.0			
Temperature				
Conductivity				
Total Solids, Combined	229.531			
Temperature °F				
Carbon Dioxide, Combined				
Dissolved Oxygen				
Hydrogen Sulfide	0.0			
Residual Alkalinity at 25° C.	0.053			
Suspended Oil				
Total Solids as mg/L				
Total Dissolved Solids @ 180°C.	184.361			

## **C-108 – Item VIII**

### **Geologic Information**

The rocks immediately underlying the Upper Devonian Woodford shale and the pre-Woodford unconformity in Lea County have been commonly labelled "Devonian." However, recent biostratigraphic work has revealed these rocks are actually comprised of the Lower Devonian Thirtyone formation in southeastern Lea County and, where the Thirtyone has been removed by pre-Woodford erosion, the subjacent Upper Silurian Wristen group.

The Thirtyone consists of siliceous carbonates and calcareous chert. It was deposited contemporaneous-ly with the famous Caballos Novaculite of the Marathon region.

The Wristen group is divided into a basal Wink member, the Frame member, and the uppermost Faskin formation. The Wink is a gray limestone with some terrigenous clay and silt. It is characteristically more radioactive on gamma ray logs than the underlying Fusselman formation. The Wink grades upwards into the siltier and more argillaceous Frame member. The uppermost member of the Wristen group, the Faskin formation, contains most of the hydrocarbon reservoirs. The Faskin is made up of wackestones, grainstones, and boundstones, and forms platform-margin buildups in Texas. Karst-related features and dolomite are common.

The McCloy SWD No.2 is expected to encounter the top of the Devonian at a measured depth of 16,750 feet. The injection interval will extend from this point to the top of the Fusselman, which is expected to be encountered at a measured depth of 18,085 feet.

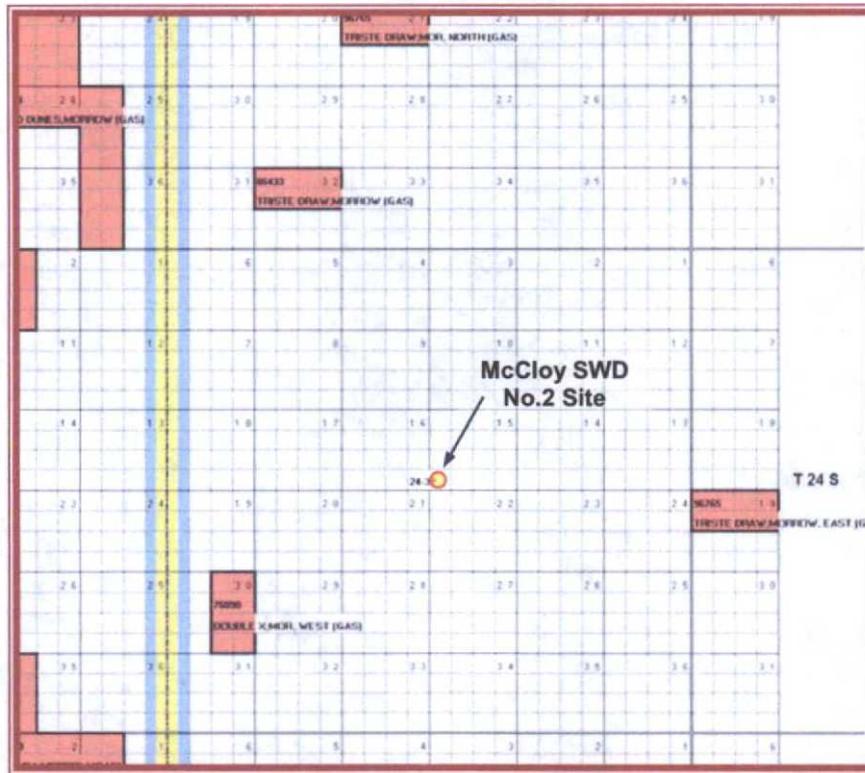
Fresh water in the area is generally available from the Santa Rosa formation at a depth of 380 feet.

There are 3 water wells located within one mile of the proposed SWD. Samples will be gathered and analysis forwarded to OCD when received.

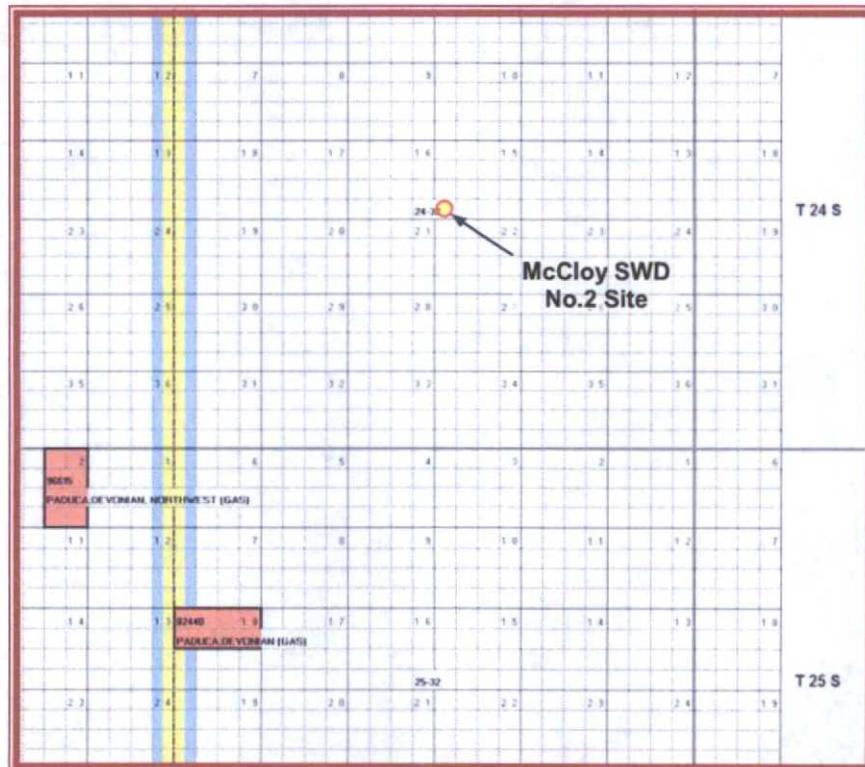
# McCloy SWD Well No.2 – Pool Maps

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

## Nearest Pools ABOVE Devonian Interval: Morrow (Gas)



## Nearest Devonian Pools to Proposed SWD



**C-108 ITEM XI – WATER WELLS IN AOR**

A search of the State Engineer’s database indicates there are 3 water wells within one mile of the proposed salt water disposal well. The well locations are indicated on the 2 Mile AOR Map. Samples will be taken and the analysis will be forwarded to OCD upon receipt.



**New Mexico Office of the State Engineer  
Active & Inactive Points of Diversion  
(with Ownership Information)**

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	Q Q Q				X	Y	
									64	16	4	Sec			Tws
C 02350	STK		3	LIMESTONE LIVESTOCK LLC	ED	C 02350	32.226581 -103.664637		4	3	10	24S	32E	625826	3566333*
C 03528	C	STK	3	MARK MCCLLOY	LE	C 03528 POD1	32.224722 -103.662389	Shallow	1	2	15	24S	32E	626040	3566129*
C 03575	C	STK	D	MARK MCCLLOY	LE	C 03575 POD1	32.224528 -103.666667		1	2	15	24S	32E	625637	3566103*

Record Count: 3

**PLSS Search:**

Section(s): 9, 10, 15, 16, 21, 22    Township: 24S    Range: 32E

Sorted by: File Number

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/15/15 2:45 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



**New Mexico Office of the State Engineer  
Water Column/Average Depth to Water**

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01932	C	ED	3	1	12	24S	32E		628633	3567188*	492		
C 02350		ED	4	3	10	24S	32E		625826	3566333*	60		
C 03527 POD1	C	LE	1	2	3	03	24S	32E	625770	3568487*	500		
C 03528 POD1	C	LE	1	1	2	15	24S	32E	626040	3566129*	541		
C 03530 POD1	C	LE	3	4	3	07	24S	32E	620886	3566156*	550		
C 03555 POD1	C	LE	2	2	1	05	24S	32E	622709	3569231*	600	380	220

Average Depth to Water: 380 feet  
Minimum Depth: 380 feet  
Maximum Depth: 380 feet

Record Count: 6

**PLSS Search:**

Township: 24S    Range: 32E



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q Q Q				Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
				64	16	4	Sec							
<u>C 01932</u>	C	ED		3	1	12	24S	32E	628633	3567188*	492			
<u>C 02350</u>		ED		4	3	10	24S	32E	625826	3566333*	60			
<u>C 03527 POD1</u>	C	LE		1	2	3	03	24S	32E	625770	3568487	500		
<u>C 03528 POD1</u>	C	LE		1	1	2	15	24S	32E	626040	3566129	541		
<u>C 03530 POD1</u>	C	LE		3	4	3	07	24S	32E	620886	3566156	550		
<u>C 03555 POD1</u>	C	LE		2	2	1	05	24S	32E	622709	3569231	600	380	220

Average Depth to Water: **380 feet**

Minimum Depth: **380 feet**

Maximum Depth: **380 feet**

**Record Count:** 6

**PLSS Search:**

Township: 24S

Range: 32E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

## 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.



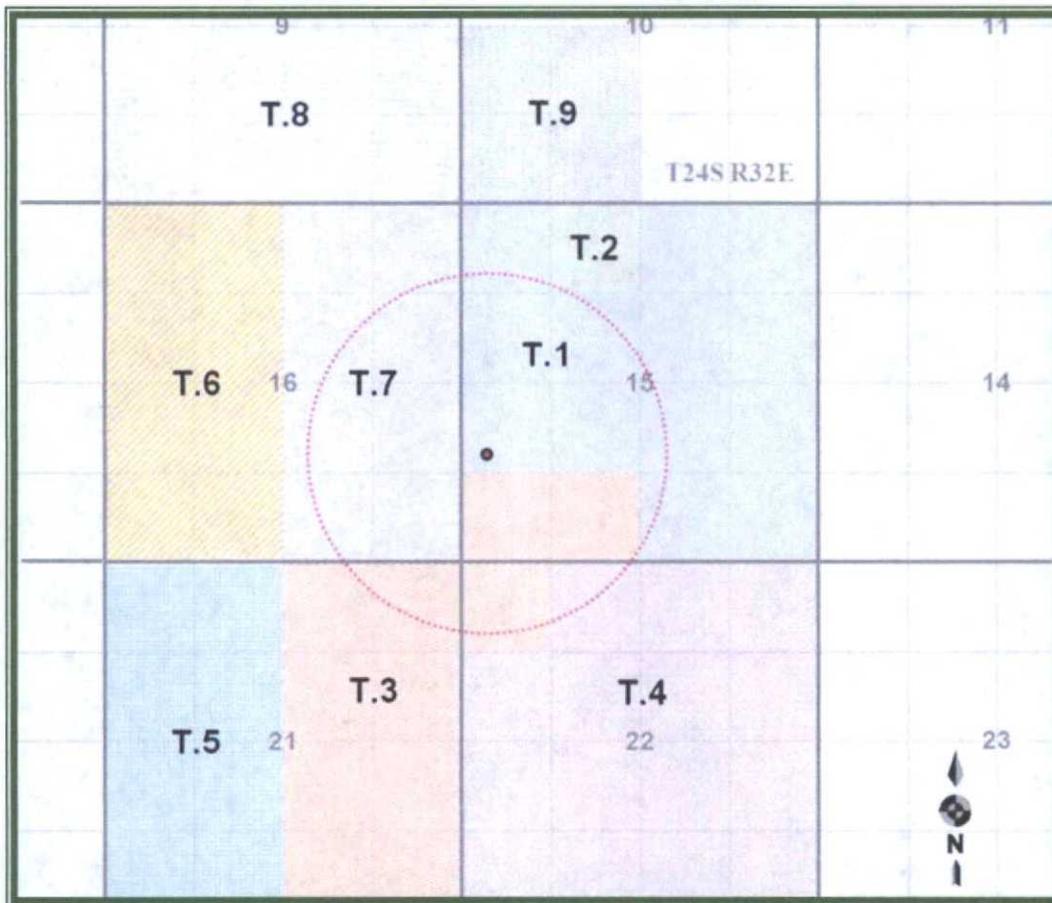
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Ben Stone, Partner  
SOS Consulting, LLC

Project: Owl SWD Operating, LLC  
McCloy SWD No.2  
Reviewed 9/28/2015

# McCloy SWD Well No.2 - Leasehold Plat

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



## LEGEND

- T.1 – NMNM-0039880 – Chevron USA, Inc.
- T.2 – NMNM-113964 – Devon Energy Production Company, LP
- T.3 – NMNM-029694 – ExxonMobil Corporation
- T.4 – NMLC-0062269A - Apache Corporation, Chisos LTD, others
- T.5 – NMNM-016353 - ExxonMobil Corporation
- T.6 – V0-4095-0000 – Yates Petroleum Corporation
- T.7 – V0-4095-0002 – Devon Energy Production Company, LP
- T.8 – NMNM-055953 – EOG Resources, Inc.
- T.9 – NMNM-119276 – Devon Energy Production Company, LP

**C-108 ITEM XIII – PROOF OF NOTIFICATION  
INTERESTED PARTIES LIST**

**SURFACE OWNER**

- 1 McCLOY RANCH (USPS Certified Mail)  
Attn: Mark McCloy  
P.O. Box 1076  
Jal, NM 88252-1076

**OFFSET MINERALS LESSEES and OPERATORS (All Notified via USPS Certified Mail)**

**BLM Lease NMNM-0039880**

***Lessee***

- 2 CHEVRON USA, INC.  
P.O. Box 1635  
Houston, TX 77251-1635

**BLM LeaseS NMNM-113964; NMNM-119276**

***Lessee***

- 3 DEVON ENERGY PRODUCTION CO., LP  
333 W. Sheridan Avenue  
OKC, OK 73102-5010

**BLM Leases NMNM-029694; NMNM-016353**

***Lessee***

- 4 EXXONMOBIL CORPORATION  
P.O. Box 4358  
Houston, TX 77210-4358

**BLM Lease NMLC-0062269A**

***Lessees***

- 5 APACHE CORPORATION  
303 Veterans Airpark Lane, Ste.3000  
Midland, TX 79705
- 6 CHISOS, LTD  
670 Dona Ana Road SW  
Deming, NM 88030
- 7 CROSS BORDER RESOURCES, INC.  
2515 McKinney Ave.,Ste.900  
Dallas, TX 75201-1945

***Operators***

- 8 MCI OPERATING OF NM, LLC  
P.O. Box 471  
Denver City, TX 79323

**C-108 ITEM XIII – PROOF OF NOTIFICATION  
INTERESTED PARTIES LIST (cont.)**

**BLM Lease NMLC-0062269A (cont.)**

***Operators***

- 9 ROBERT H. FORREST JR, OIL LLC  
609 Elora Drive  
Carlsbad, NM 88220

**State Lease V0-4095-0000**

***Lessee***

- 10 YATES PETROLEUM CORPORATION  
105 S. 4<sup>th</sup> Street  
Artesia, NM 88210

**State Lease V0-4095-0002**

***Lessee***

DEVON ENERGY PRODUCTION CO., LP  
333 W. Sheridan Avenue  
OKC, OK 73102-5010

**BLM Lease NMNM-055953**

***Lessee***

- 11 EOG RESOURCES, INC.  
P.O. Box 2267  
Midland, TX 79702-2267

**OFFSET MINERALS OWNERS (All Notified via USPS Certified Mail)**

- 12 U.S. DEPARTMENT OF INTERIOR  
Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220
- 13 NEW MEXICO STATE LAND OFFICE  
Commissioner of Public Lands  
310 Old Santa Fe Trail  
Santa Fe, NM

**REGULATORY**

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed original and copy)  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

**C-108 ITEM XIII – PROOF OF NOTIFICATION  
INTERESTED PARTIES LIST (cont.)**

**REGULATORY (cont.)**

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed copy)  
811 S. First St.  
Artesia, NM 88210

U.S. DEPARTMENT OF INTERIOR  
Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220



October 13, 2015

**NOTIFICATION TO INTERESTED PARTIES**  
**via U.S. Certified Mail**

To Whom It May Concern:

Owl SWD Operating, LLC, Dallas, Texas, has made application to the New Mexico Oil Conservation Division to drill and complete for salt water disposal the McCloy SWD Well No.2. The proposed SWD will be for commercial use. As indicated in the notice below, the well will be located in Section 15, Township 24 South, Range 32 East in Lea County, New Mexico.

The disposal interval will be through openhole from a maximum of 16,500 feet to 18,250 feet in the Devonian formation.

Following is the legal notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about September 27, 2015.

**LEGAL NOTICE**

Owl SWD Operating, LLC, 8214 Westchester Dr., Ste.850, Dallas, TX 75255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to complete for salt water disposal its McCloy SWD Well No.2. The well will be drilled 1595' FSL & 369' FWL in Section 15, Township 24 South, Range 32 East in Lea County, New Mexico. The commercial SWD well will be used dispose of produced water from area operations into the Devonian formation through an openhole completion from a top of 16,500 feet to a maximum depth of 18,250 feet. Maximum injection pressure will be 3350 psi with a maximum rate limited only by such pressure. The operator may conduct a step rate test in the future if it is determined that higher pressures are necessary.

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, (903)488-9850 or, email [info@sosconsulting.us](mailto: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. A full copy in PDF format on a mini-CD will be arriving within a few days of this notice. If you do not receive it, please call or email SOS Consulting, LLC at 903-488-9850, info@sosconsulting.us, and a copy will be expedited to you and may also be sent via email if preferred.

Thank you for your attention in this matter.

Best regards,

A handwritten signature in black ink, appearing to read "Ben Stone". The signature is fluid and cursive, with the first name "Ben" and last name "Stone" clearly distinguishable.

Ben Stone, SOS Consulting, LLC  
Agent for Owl SWD Operating, LLC

Cc: Application File

# C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

7015 0640 0007 9482 6926  
7015 0640 0007 9482 69  
7015 0640 0007 9482 69  
7015 0640 0007 9482 69

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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ 2.80

Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

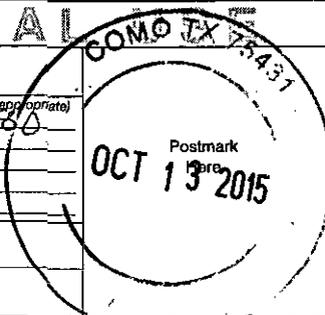
Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage  
\$ .49

**Total Postage and Fees**  
\$ 6.74

Sent To



Street and Apt. McCloy 2 Dev RANCH  
City, State, Zip Attn: Mark McCloy 2 Dev  
P.O. Box 1076  
PS Form 3800 Jal, NM 88252-1076

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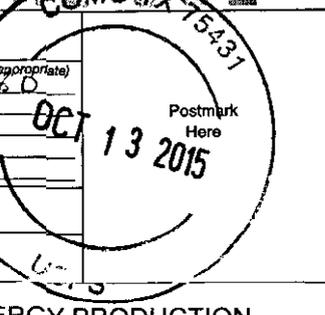
Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage  
\$ .49

**Total Postage and Fees**  
\$ 6.74

Sent To



Street and Apt. DEVON ENERGY PRODUCTION  
City, State, Zip COMPANY, LP  
333 W. Sheridan Ave.  
OKC, OK 73102

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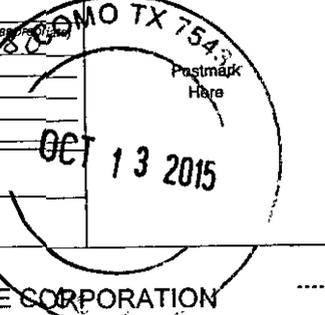
Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage  
\$ .49

**Total Postage and Fees**  
\$ 6.74

Sent To



Street and Apt. APACHE CORPORATION  
City, State, Zip 303 Veterans Airpark Lane, Ste. 3000  
Midland, TX 79705

PS Form 3800

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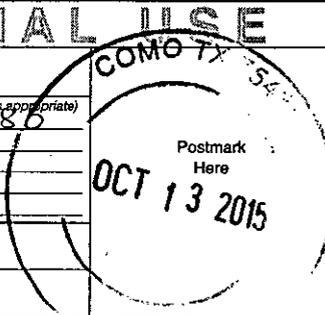
Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage  
\$ .49

**Total Postage and Fees**  
\$ 6.74

Sent To



Street and Apt. CHEVRON USA, INC.  
City, State, Zip 1400 Smith Street  
Houston, TX 77002-7327

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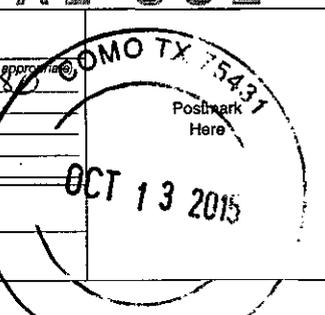
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**Total Postage and Fees**  
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Street and Apt. EXXONMOBIL CORPORATION  
City, State, Zip P.O. Box 4358  
Houston, TX 77210-4358

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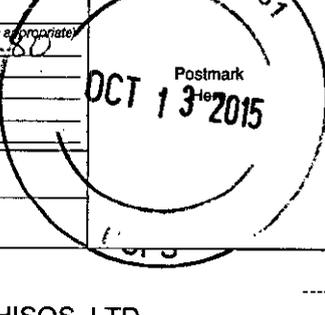
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Adult Signature Restricted Delivery \$ \_\_\_\_\_

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**Total Postage and Fees**  
\$ 6.74

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Street and Apt. CHISOS, LTD  
City, State, Zip 670 Dona Ana Road SW  
Deming, NM 88030

PS Form 3800

# C-108 - Item XIV

Proof of Notice (Certified Mail Receipts - cont.)

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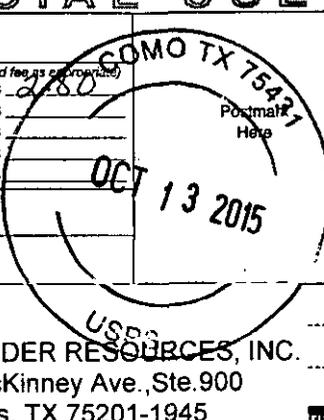
Total Postage and Fees \$ 6.74

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Street \_\_\_\_\_

City, State \_\_\_\_\_

PS Form \_\_\_\_\_



Sent To

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City, State, Zip \_\_\_\_\_

PS Form 380 \_\_\_\_\_

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Postage \$ .49

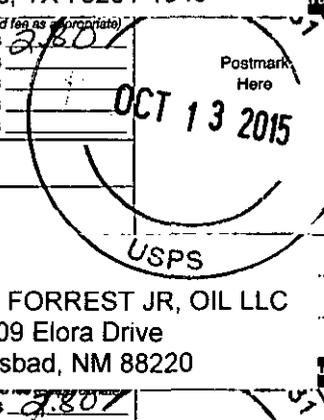
Total Postage and Fees \$ 6.74

Sent To \_\_\_\_\_

Street and Apt. \_\_\_\_\_

City, State, Zip \_\_\_\_\_

PS Form \_\_\_\_\_



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Street and Apt. \_\_\_\_\_

City, State, Zip \_\_\_\_\_

PS Form 3 \_\_\_\_\_

Extra Services & Fees (check box, add fee as appropriate)

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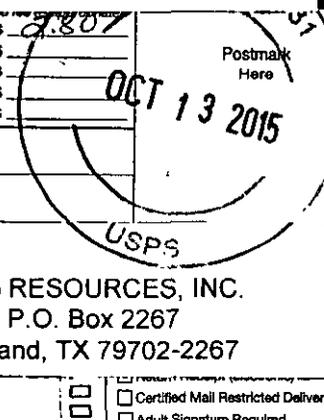
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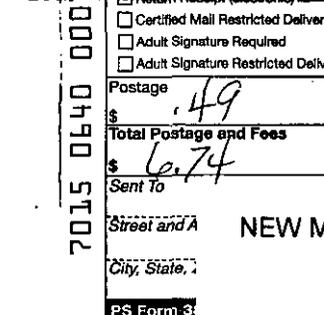
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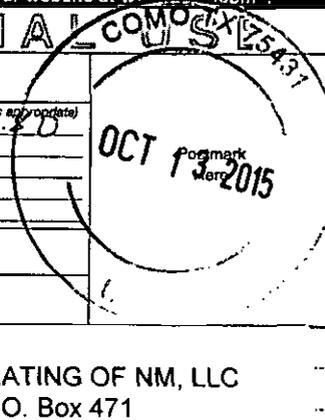
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PS Form 380 \_\_\_\_\_



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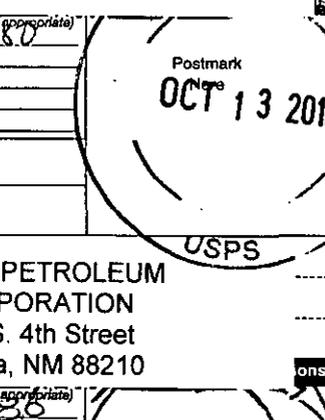
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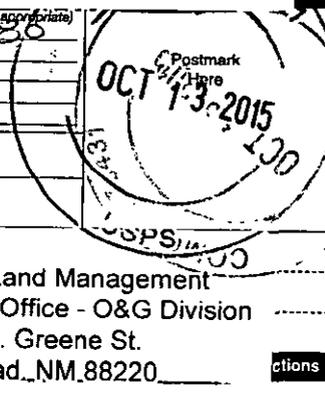
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PS Form \_\_\_\_\_



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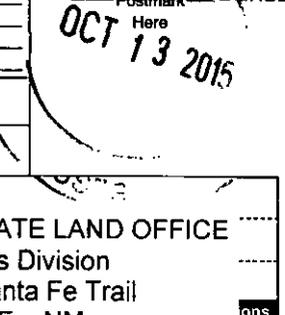
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7015 0640 0007

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City, State, Zip \_\_\_\_\_

PS Form 3 \_\_\_\_\_

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PS Form 3 \_\_\_\_\_

NEW MEXICO STATE LAND OFFICE  
Oil & Gas Division  
310 Old Santa Fe Trail  
Santa Fe, NM

**C-108 ITEM XIII – PROOF OF NOTIFICATION  
Regulatory Filings**

**Owl SWD Operating, LLC**

**McCloy SWD No.2**

**C-108 sent 10/16/15**

FedEx Tracking Nos.

OCD SF – 7747 5554 2945

OCD Hobbs – 7747 5555 5040

SLO – 7747 5556 8500

I hereby certify that a full copy of the subject C-108 application was sent to the applicable regulatory agencies as indicated above.



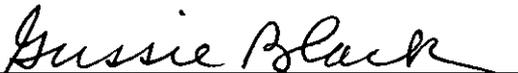
Ben Stone, Partner  
SOS Consulting, LLC  
Agent for Owl SWD Operating, LLC

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

I, Gussie Black, Business Manager 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).

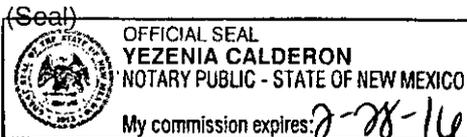
Beginning with the issue dated  
September 27, 2015  
and ending with the issue dated  
September 27, 2015.

  
Business Manager

Sworn and subscribed to before me this  
27th day of September 2015.

  
Circulation Coordinator

My commission expires  
February 28, 2016



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

**LEGALS**

**LEGAL NOTICE**  
September 27, 2015

Owl SWD Operating, LLC, 8214 Westchester Dr., Ste. 850, Dallas, TX 75255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to complete for salt water disposal its McCloy SWD Well No.2. The well will be drilled 1595' FSL & 369' FWL in Section 15, Township 24 South, Range 32 East in Lea County, New Mexico. The commercial SWD well will be used dispose of produced water from area operations into the Devonian formation through an openhole completion from a top of 16,500 feet to a maximum depth of 18,250 feet. Maximum injection pressure will be 3350 psi with a maximum rate limited only by such pressure. The operator may conduct a step rate test in the future if it is determined that higher pressures are necessary.

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#30348

67104420

00163776

BEN STONE  
SOS CONSULTING, LLC.  
P.O. BOX 300  
COMO, TX 75431



# New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

**POD Number**

**Q64 Q16 Q4 Sec Tws Rng**

**X**

**Y**

C 03528 POD1

1 1 2 15 24S 32E

626040

3566129



**Driller License:** 1682

**Driller Name:** NORRIS, JOHN D. (LD)

**Drill Start Date:** 02/20/2012

**Drill Finish Date:** 03/12/2012

**Plug Date:**

**Log File Date:** 04/30/2012

**PCW Rcv Date:**

**Source:** Shallow

**Pump Type:** SUBMER

**Pipe Discharge Size:**

**Estimated Yield:**

**Casing Size:** 6.38

**Depth Well:** 541 feet

**Depth Water:**

**Water Bearing Stratifications:**

**Top Bottom Description**

133 152 Sandstone/Gravel/Conglomerate

**Casing Perforations:**

**Top Bottom**

133 152

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



C-108 Review Checklist: Received 10/14 Add. Request: W2 Reply Date: \_\_\_\_\_ Suspended: \_\_\_\_\_ (Ver 15)

ORDER TYPE: WFX / PMX SWD Number: \_\_\_\_\_ Order Date: \_\_\_\_\_ Legacy Permits/Orders: \_\_\_\_\_

Well No. 2 Well Name(s): McCLOY RANCH

API: 30-022 Pending Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1595 FSC 369 FWL Lot \_\_\_\_\_ or Unit L Sec 15 Tsp 245 Rge 32E County Lea

General Location: 2 3/4 miles W JAL Pool: S40, DEVONIAN Pool No.: 96101

BLM 100K Map: JAL Operator: SWD OPERATING, LLC OGRID: 308339 Contact: BEN STONE, agent

COMPLIANCE RULE 5.9: Total Wells: 16 Inactive: 2 Fincl Assur: 2 Compl. Order? N/A IS 5.9 OK? \_\_\_\_\_ Date: \_\_\_\_\_

WELL FILE REVIEWED  Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed  or RE-ENTER: Before Conv.  After Conv.  Logs in Imaging: N/A

Planned Rehab Work to Well: \* CBL b/w Liner & Surface through 1074 to surface

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	20" / 16"	1000	1044	Surface / Visual
Planned ___ or Existing ___ Interm/Prod	12 1/2" / 13 1/2"	500	856	Surface / Visual
Planned ___ or Existing ___ Interm/Prod	12 1/4" / 10 1/4"	1300	1542	Surface / Visual
Planned ___ or Existing ___ Prod/Liner				
Planned ___ or Existing ___ Liner	9" / 7 1/4"	16750	496	12800
Planned ___ or Existing <input checked="" type="checkbox"/> OH PERF	16 5/8" / 14 1/8"			
				<b>Completion/Operation Details:</b>
Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Drilled TD <u>18250</u> PBDT _____
Adjacent Unit: Litho. Struc. Por.		<u>DEV</u>	<u>16350</u>	NEW TD _____ NEW PBDT _____
Confining Unit: Litho. Struc. Por.				NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Proposed Inj Interval TOP:	<u>16500</u>			Tubing Size <u>5 1/2</u> in. Inter Coated? <input checked="" type="checkbox"/>
Proposed Inj Interval BOTTOM:	<u>18250</u>			Proposed Packer Depth <u>16400</u> ft
Confining Unit: Litho. Struc. Por.				Min. Packer Depth <u>16400</u> (100-ft limit)
Adjacent Unit: Litho. Struc. Por.				Proposed Max. Surface Press. <u>3350</u> psi
				Admin. Inj. Press. <u>3350</u> (0.2 psi per ft)

**AOR: Hydrologic and Geologic Information**

POTASH: R-111-P MD Noticed?  BLM Sec Ord  WIPP  Noticed?  Salt/Salado T: \_\_\_\_\_ B: \_\_\_\_\_ NW: Cliff House fm \_\_\_\_\_

FRESH WATER: Aquifer Delaware / Devon Max Depth 1539500 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: L Anlsb CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? \_\_\_\_\_ FW Analysis \_\_\_\_\_

Disposal Fluid: Formation Source(s) Delaware / Bone Springs Analysis?  On Lease  Operator Only  or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 15,000 / 20,000 Protectable Waters? \_\_\_\_\_ Source: \_\_\_\_\_ System: Closed or Open

HC Potential: Producing Interval? \_\_\_\_\_ Formerly Producing? \_\_\_\_\_ Method: Logs/DST/P&A/Other MD 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map?  Well List? \_\_\_\_\_ Total No. Wells Penetrating Interval: 0 Horizontals? N/A

Penetrating Wells: No. Active Wells N/A Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

Penetrating Wells: No. P&A Wells MD Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

NOTICE: Newspaper Date 9-27 Mineral Owner NMSLO Surface Owner MARK McCLOY N. Date 10-13-2015

RULE 26.7(A): Identified Tracts?  Affected Persons: CHEVRON, EXXON, DEVON N. Date 10-13-2015

Order Conditions: Issues: \_\_\_\_\_

Add Order Cond: \_\_\_\_\_



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

4-23-12

*Corrected well log*

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) C-03528-POD1		OSE FILE NUMBER(S) C-03528-POD1						
	WELL OWNER NAME(S) MARK & ANNETTE MCCLOY		PHONE (OPTIONAL) 432-940-4459						
	WELL OWNER MAILING ADDRESS PO BOX 1076		CITY JAL	STATE NM	ZIP 88252				
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 13	SECONDS 29.00 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS <i>Coordinates Based on map (Non-GPS)</i>									
2. OPTIONAL	(2.5 ACRE) NW 1/4	(10 ACRE) NW 1/4	(40 ACRE) NW 1/4	(160 ACRE) NE 1/4	SECTION 25	TOWNSHIP 24	<input type="checkbox"/> NORTH <input checked="" type="checkbox"/> SOUTH	RANGE 32	<input checked="" type="checkbox"/> EAST <input type="checkbox"/> WEST
	SUBDIVISION NAME <i>Located on</i>				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
HYDROGRAPHIC SURVEY					MAP NUMBER	TRACT NUMBER			
3. DRILLING INFORMATION	LICENSE NUMBER WD1682	NAME OF LICENSED DRILLER JOHN NORRIS			NAME OF WELL DRILLING COMPANY HUNGRY HORSE, LLC				
	DRILLING STARTED 2-20-12	DRILLING ENDED 3-12-12	DEPTH OF COMPLETED WELL (FT) 541	BORE HOLE DEPTH (FT) 541	DEPTH WATER FIRST ENCOUNTERED (FT) 133				
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)								STATIC WATER LEVEL IN COMPLETED WELL (FT)
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:								
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:								
	DEPTH (FT)	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)		
	FROM TO								
0 541	8 3/4	PVC	GLUED	6"	3/8	1/8			
4. WATER BEARING STRATA	DEPTH (FT)	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)		
	FROM TO								
	133 152	19	SAND				UK		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA N/A							TOTAL ESTIMATED WELL YIELD (GPM)	

APR 30 11:41 AM '12  
STATE ENGINEER OFFICE  
ROSWEIL

FOR OSE INTERNAL USE	WELL RECORD & LOG (Version 6/9/08)
FILE NUMBER C-3528	POD NUMBER C-03528-POD1
LOCATION 24.32.15.2111	TRN NUMBER 491386
PAGE 1 OF 2	

5. SEAL AND PUMP	TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY: UNKNOWN						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
	0	20	8 3/4	GROUT & CEMENT	8	TOP	

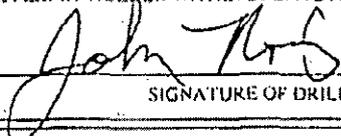
6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?		
	FROM	TO			<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
		0	3	3	TOPSOIL	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		3	18	15	CALICHE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		18	26	8	SAND	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		26	133	107	RED CLAY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		133	152	19	SAND	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		152	318	166	RED CLAY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		318	345	27	SAND	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		345	384	39	RED CLAY AND ROCK	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		384	418	34	SAND	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		418	444	26	RED CLAY AND ROCK	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		444	468	24	SAND	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		468	500	32	RED CLAY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		500	508	8	SAND	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	508	541	33	RED CLAY AND ROCK	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL.

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY: N/A
		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	ADDITIONAL STATEMENTS OR EXPLANATIONS:	

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 _____ SIGNATURE OF DRILLER	4-23-12 _____ DATE

FOR USE INTERNAL USE	WELL RECORD & LOG (Version 6/9/08)	
FILE NUMBER <b>C-3528</b>	POD NUMBER <b>C-03528-Pod1</b>	TRN NUMBER <b>491386</b>
LOCATION <b>24-32-15-2111</b>	PAGE 2 OF 2	