

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 1605
 - Owl SWD operating, LLC
 308339
 well
 - Limestone SWD #2
 30-025-pending*

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

- [A] Working, Royalty or Overriding Royalty Interest Owners
 [B] Offset Operators, Leascholders 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 OCD
 2015 OCT 19 AM 11:11
 Pod
 - SWD, Devonian
 96101

[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		Agent for Owl SWD Operating, LLC	10/17/15
Print or Type Name	Signature	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 Limestone SWD No.2 well, to be located in Section 12, Township 23 South, Range 34 East, NMPM, 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 Limestone 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 October 14, 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,

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 are NO WELLS in the subject AOR.**
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. **NONE.**
- 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. **Due to limited information in the immediate vicinity, geologic information is inferred from existing studies in the region.**
- IX. **Stimulation program – a conventional acid job may be conducted upon completion of the well.**
- *X. **During drilling, mudlogging will ensure only Devonian interval is targeted. After drilling, logs will be run from TD to approximately 14,000' and will be submitted to the OCD. CBL logs will be run after setting casing.**
- *XI. **There are NO domestic water wells within one mile of the proposed salt water disposal well.**
- 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 15 offset lessees and/or operators within ½ mile and BLM & State minerals - all have been noticed.**
- 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

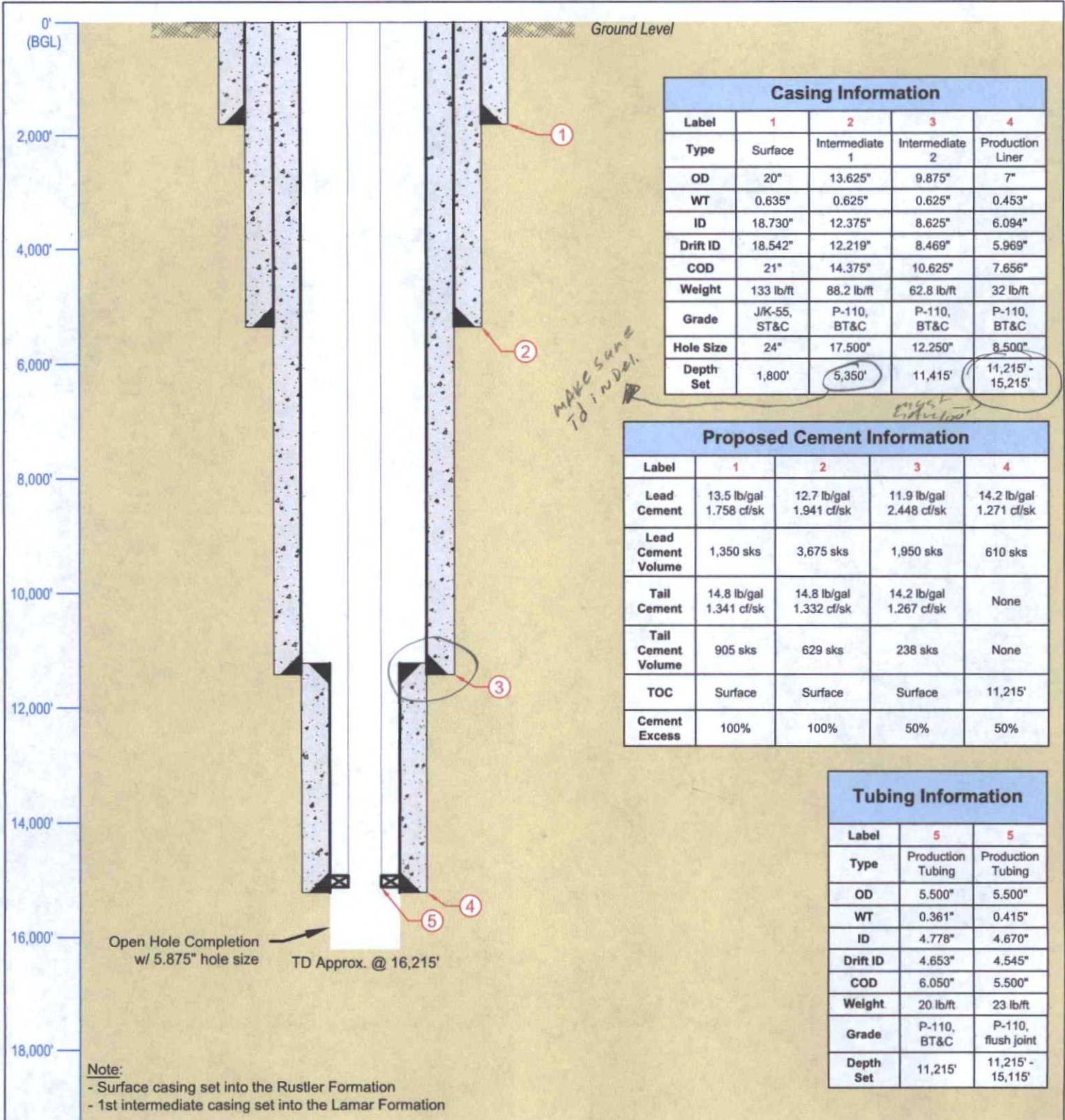
Subject Well Data

WELL SCHEMATIC

Proposed

With Construction Data Detail

(Approved C-101 attached.)



Casing Information				
Label	1	2	3	4
Type	Surface	Intermediate 1	Intermediate 2	Production Liner
OD	20"	13.625"	9.875"	7"
WT	0.635"	0.625"	0.625"	0.453"
ID	18.730"	12.375"	8.625"	6.094"
Drift ID	18.542"	12.219"	8.469"	5.969"
COD	21"	14.375"	10.625"	7.656"
Weight	133 lb/ft	88.2 lb/ft	62.8 lb/ft	32 lb/ft
Grade	J/K-55, ST&C	P-110, BT&C	P-110, BT&C	P-110, BT&C
Hole Size	24"	17.500"	12.250"	8.500"
Depth Set	1,800'	5,350'	11,415'	11,215' - 15,215'

Proposed Cement Information				
Label	1	2	3	4
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	1,350 sks	3,675 sks	1,950 sks	610 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	905 sks	629 sks	238 sks	None
TOC	Surface	Surface	Surface	11,215'
Cement Excess	100%	100%	50%	50%

Tubing Information		
Label	5	5
Type	Production Tubing	Production Tubing
OD	5.500"	5.500"
WT	0.361"	0.415"
ID	4.778"	4.670"
Drift ID	4.653"	4.545"
COD	6.050"	5.500"
Weight	20 lb/ft	23 lb/ft
Grade	P-110, BT&C	P-110, flush joint
Depth Set	11,215'	11,215' - 15,115'

Open Hole Completion w/ 5.875" hole size TD Approx. @ 16,215'

Note:
 - Surface casing set into the Rusler Formation
 - 1st intermediate casing set into the Lamar Formation

LONQUIST & CO. LLC PETROLEUM ENGINEERS ENERGY ADVISORS AUSTIN HOUSTON WICHITA CALGARY	OWL SWD Operating, Inc.	Limestone SWD No. 2	
	Country: USA	State/Province: New Mexico	County/Parish: Lea
Survey/STR: 12-23S-34E	API No.: 30-025-	Site:	Status: To Be Drilled
Texas License F-8952	State ID No.:	Field: Devonian	Ground Elevation:
3345 Bee Cave Road, Suite 201 Austin, Texas 78746 Tel: 512.732.9812 Fax: 512.732.9816	Drawn: MMC	Project No: 1249	Date: 9-22-15
Rev No:	Notes:	Reviewed: SLP	Approved: SLP

APD Calculation Summary -
C295:K384.

2nd Dia	20	surface csg in a	24	inch hole.	Design Factors			SURFACE		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	133.00	K 55		ST&C	5.23	1.51	1.02	1,800	239,400	
"B"								0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,357					Tail Cmt	does not	circ to sfc.	Totals:	1,800	239,400
Comparison of Proposed to Minimum Required Cement Volumes										
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg	
24	0.9599	2255	3587	1804	99	10.60	1825	2M	1.50	

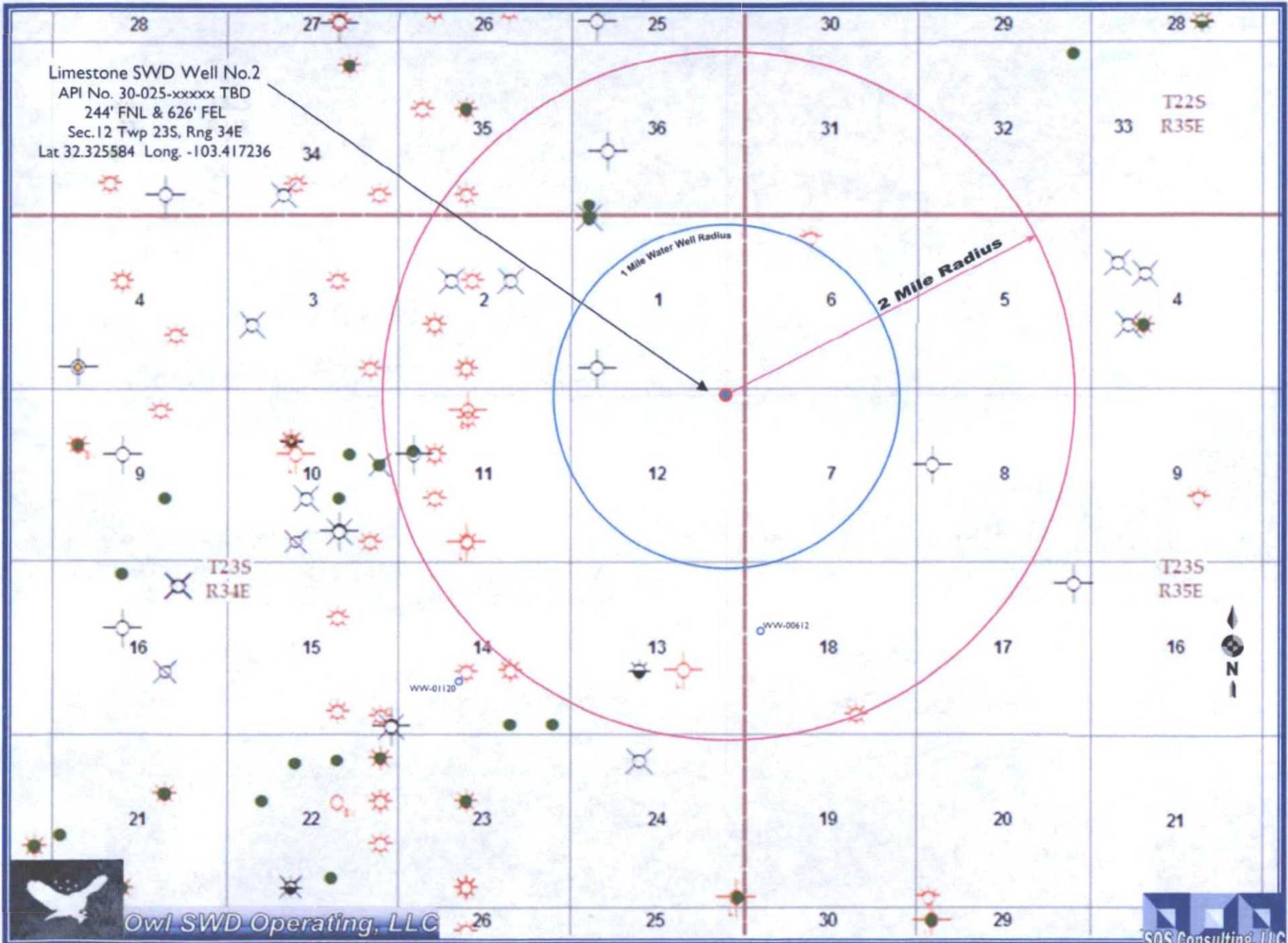
3rd Dia	13 5/8	casing inside the	20		Design Factors			INTERMEDIATE		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	88.20	P 110		BUTT	4.58	1.52	1.31	5,350	471,870	
"B"								0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig:								Totals:	5,350	471,870
The cement volume(s) are intended to achieve a top of					0	ft from surface or a		1800	overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg	
17 1/2	0.6578	4304	7971	3994	100	10.80	4249	5M	8.75	

4th Dia	9 7/8	casing inside the	13 5/8		Design Factors			PRODUCTION		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	62.80	P 110		BUTT	2.21	1.52	1.27	11,415	716,862	
"B"								0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,511								Totals:	11,415	716,862
The cement volume(s) are intended to achieve a top of					0	ft from surface or a		5350	overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg	
12 1/4	0.2866	2188	5075	3379	50	11.40	6216	10M	0.81	
Class 'H' tail cmt yld > 1.20					MASP is within 10% of 5000psig, need exrta equip?					

5th Dia	7	Liner w/top @	11215		Design Factors			LINER		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	Weight	
"A"	32.00	P 110		BUTT	2.11	1.13	1.22	4,000	128,000	
"B"								0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 3,347								Totals:	4,000	128,000
The cement volume(s) are intended to achieve a top of					11215	ft from surface or a		200	overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg	
8 1/2	0.1268	610	775	518	50	12.10			0.422	
Capitan Reef est top XXXX.					MASP is within 10% of 5000psig, need exrta equip?					

Limestone SWD Well No.2 - Area of Review / 2 Miles

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



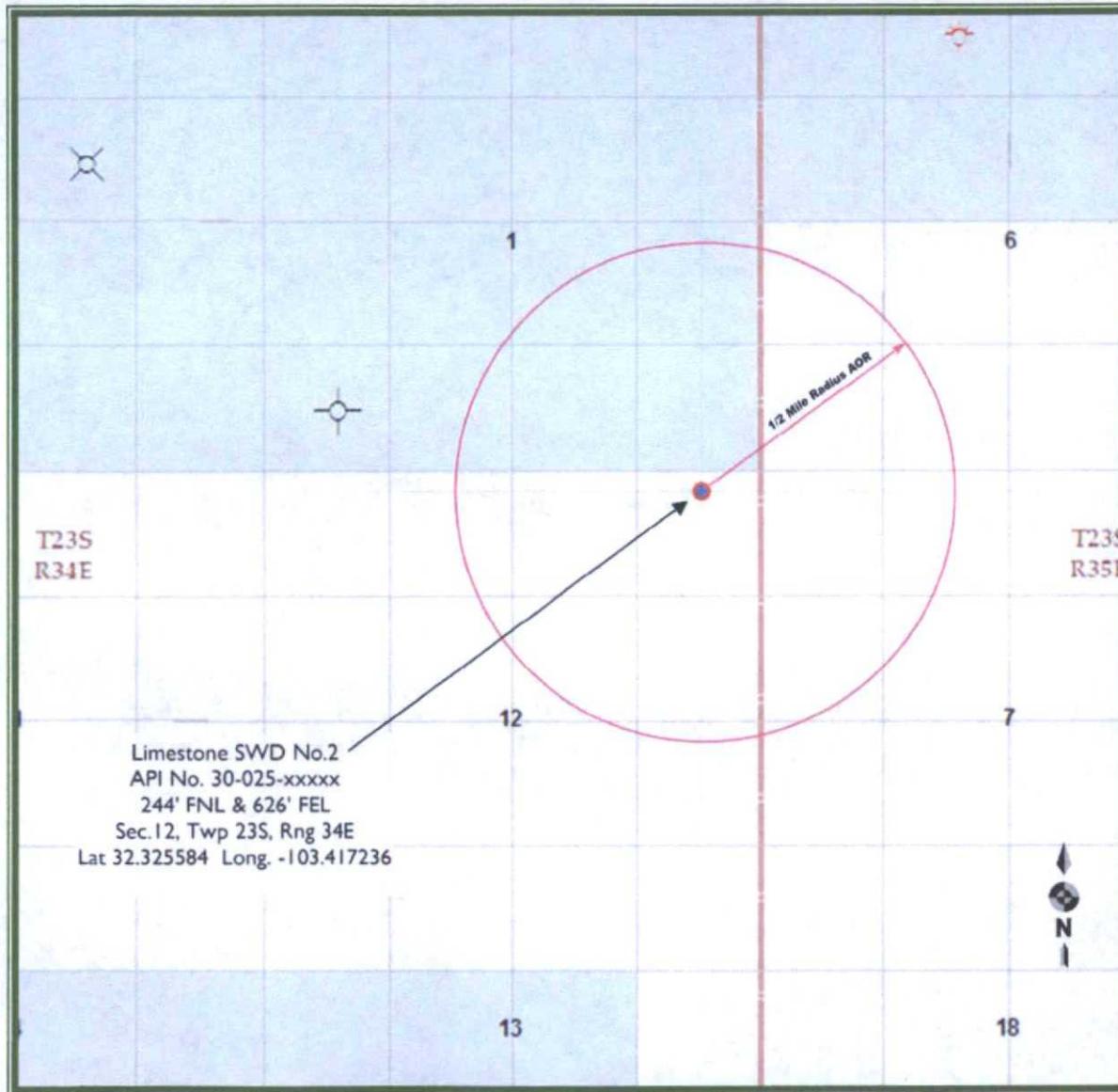
Owl SWD Operating, LLC



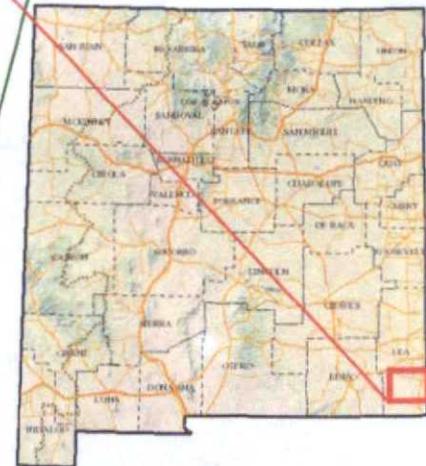
SOS Consulting, LLC

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

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



~16.7 miles W/SW of Eunice, NM



Lea County, New Mexico



Owl SWD Operating, LLC



C-108 - Item VI

Area of Review Well Data

**THERE ARE NO WELLS IN THE ONE-HALF MILE
AREA of REVIEW**

C-108 ITEM VII – PROPOSED OPERATION

Limestone 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 3043 psi (.2 psi/ft gradient) with an average pressure of approximately 2000 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 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 contemporaneously 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 Limestone SWD No.2 is expected to encounter the top of the Siluro-Devonian at a measured depth of 15,208 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 16,348 feet.

Fresh water in the area is generally available from the Santa Rosa formation. State Engineer's records show water wells in the area to have an average depth of 252 feet.

There are NO water wells located within one mile of the proposed SWD.

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 (+)		Anions (-)	
	mg/L		mg/L		mg/L		mg/L
Oxygen (mg/L)	100	Oil in Water (ppm)	na	Barium (Ba)	0	Carbonate (CO ₃)	0
Carbon Dioxide (mg/L)	890	Specific Gravity	1.150	Calcium (Ca)	18,440	Bicarbonate (HCO ₃)	16,000
Hydrogen Sulfide (mg/L)	00	Total Dissolved Solids (TDS)	180,500	Magnesium (Mg)	300	Chloride (mg/L)	118,500
pH	5.7	(mg/L) (µm)	180,500	Sodium (Na) (µm)	54,270	Sulfate (SO ₄)	310
Temperature °F	73	Total Hardness (mg/L)	18,100	Iron (Fe)	100		
				Manganese (Mn)	000		

Water Analysis - Source Zone - DELAWARE

P. O. BOX 1400
MCKINNEY, TEXAS 75069
PH: 972-224-0800 OR 972-224-0802

Martin Water Laboratories, Inc.

RESULT OF WATER ANALYSES

PO BOX 140000
DALLAS TEXAS 75216
PHONE: 972-224-0800

LABORATORY NO. 99293

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

P. O. Box 21810, 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. 2	NO. 3	NO. 4
Specific Gravity at 60°F	1.1462			
gm H ₂ O per Sample				
pot H ₂ O per Sample	6.26			
Distillation as HCO ₃	146			
Subtraction as CaCO ₃				
Alkalinity as CaCO ₃				
Total Hardness as CaCO ₃	50,500			
Calcium as Ca	18,000			
Magnesium as Mg	1,334			
Sodium and Potassium	68,483			
Sulfate as SO ₄	947			
Chloride as Cl	140,618			
Iron as Fe	90.0			
Barium as Ba				
Strontium as Sr				
Oil, as %				
Total Solids, Extracted	229,531			
Temperature °F				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0			
Hydrogen Sulfide at 111°F	0.053			
Suspended Oil				
Oil as Solids at 100°F				
Oil as Solids at 180°C				
Total Dissolved Solids @ 180°C	184,361			

C-108 ITEM XI – WATER WELLS IN AOR

A search of the State Engineer’s database indicates there are NO water wells within one mile of the proposed salt water disposal well. The well locations are indicated on the AOR Map. The 2 wells identified by the search criteria fall well beyond one mile of the subject proposed well.



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

WR File Nbr	Sub			County	POD Number	Code Grant	Source				X	Y	
	basin	Use	Diversion				Owner	Q	Q	Q			Q
CP 01120	STK		3	LIMESTONE LIVESTOCK LLC	LE	CP 01120 POD1	6416	4	14	23S	34E	646366	3574753

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

Record Count: 1

PLSS Search:

Section(s): 1, 2, 11, 12, 13, 14
 Township: 23S Range: 34E

Sorted by: File Number

WR File Nbr	Sub			County	POD Number	Code Grant	Source				X	Y	
	basin	Use	Diversion				Owner	Q	Q	Q			Q
CP 00612	PRO		0	J.C. MILLS	LE	CP 00612	6416	4	18	23S	35E	649900	3575408

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

Record Count: 1

PLSS Search:

Section(s): 6, 7, 18
 Township: 23S Range: 35E

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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



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 Code	Sub-basin	County	Q Q Q			Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
				64	16	4								
<u>C 03620 POD1</u>	C	LE		1	4	3	32	23S	34E	641790	3569941	480	130	350
<u>CP 00556</u>		LE		4	4	3	08	23S	34E	641762	3576206	497	255	242
<u>CP 00580</u>		LE		3	4	3	23	23S	34E	646524	3572948*	220		
<u>CP 00606</u>		LE			4	1	23	23S	34E	646613	3573854*	650	265	385
<u>CP 00618</u>		LE		1	2	4	22	23S	34E	645713	3573539*	428	295	133
<u>CP 00637</u>		LE		3	3	4	15	23S	34E	645293	3574541*	430	430	0
<u>CP 00872</u>		LE		1	1	1	08	23S	34E	641225	3577504*	500	305	195
<u>CP 01075 POD1</u>		LE		1	1	1	08	23S	34E	641278	3577525	430	20	410
<u>CP 01120 POD1</u>		LE		2	3	3	14	23S	34E	646366	3574753	397	318	79
<u>CP 01258 POD1</u>		LE		1	4	3	22	23S	34E	645015	3573221	25		
<u>CP 01258 POD2</u>		LE		1	4	3	22	23S	34E	644941	3572883	65		
<u>CP 01258 POD3</u>		LE		1	4	3	22	23S	34E	644941	3572883	25		

Average Depth to Water: **252 feet**
 Minimum Depth: **20 feet**
 Maximum Depth: **430 feet**

Record Count: 12

PLSS Search:

Township: 23S Range: 34E

*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.

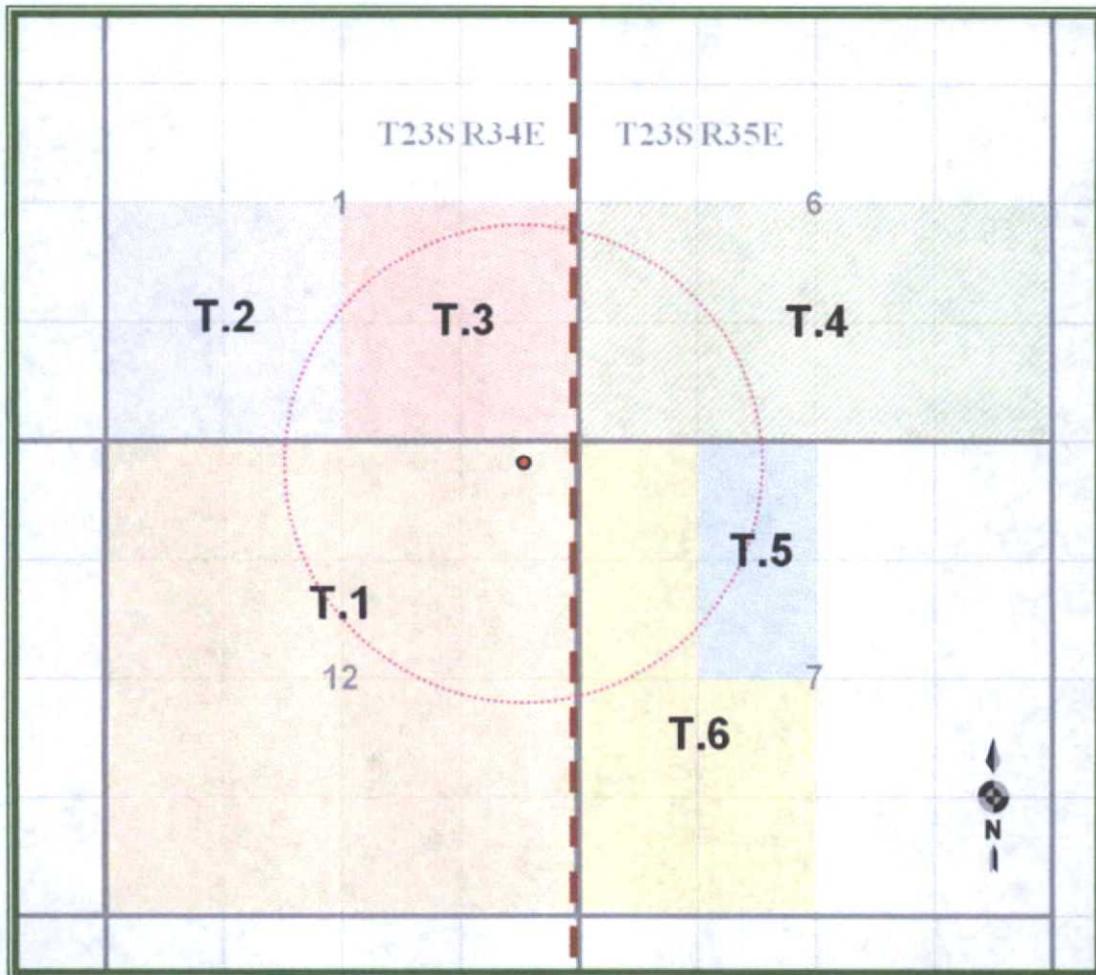


Ben Stone, Partner
SOS Consulting, LLC

Project: Owl SWD Operating, LLC
Limestone SWD No.2
Reviewed 9/15/2015

Limestone SWD Well No.2 - Leasehold Plat

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



Owl SWD Operating, LLC

LEGEND

- T.1 – Fee Lease – Limestone Livestock, LLC to Energex, GMT Exploration, OXY USA, Chesapeake, others
- T.2 – E0-1310-0000 – Slash Exploration, LLC
- T.3 – E0-1932-0001 – ConocoPhillips Company
- T.4 – VB-2076-0001 – GMT Exploration Company, LLC
- T.5 – NMNM-115425 – Yates Petroleum Corporation
- T.6 – NMNM-128370 – GMT Exploration Company, LLC

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

SURFACE OWNER

- 1 LIMESTONE LIVESTOCK (USPS Certified Mail)
Attn: Darr Angell
P.O. Box 190
Lovington, NM 88260

OFFSET MINERALS LESSEES

(All Notified via USPS Certified Mail)

Fee Lease (T.1 on attached plat.)

- Lessee (SE4SE4; NE4SW4; NW4NW4; SW4SE4; S2NW4; NE4SE4; NW4SE4; NE4NE4; SE4NE4; NW4NE4; SW4NE4)*
2 ENERGEX, LLC
4425 98th Street, Suite 200
Lubbock, TX 79424
- Lessee (NW4NW4; S2NW4; NE4; N2SE4; SW4SE4; NW4SE4; NE4SW4; SE4SE4; SW4SW4)*
3 GMT EXPLORATION COMPANY, LLC
1560 Broadway, Suite 2000
Denver, CO 80202
- Lessee (SE4SE4; NE4SW4; SW4SEW4)*
4 OXY USA WTP, LP
5 Greenway Plaza, Suite 110
Houston, TX 77046
- Lessee (SW4SE4; NW4NW4; NW4SE4; N2NE4NW4; S2NW4)*
5 CHESAPEAKE EXPLORATION, LLC
P.O. Box 18496
Oklahoma City, OK 73154
- Lessee (N2NE4NW4; NW4SW4)*
6 CHEVRON USA, INC.
Attn: Jason Levine
1400 Smith Street
Houston, TX 77002
- Lessee (N2NE4; S2NE4NW4; N2SE4; NW4NE4; SE4NE4)*
7 MRC PERMIAN COMPANY
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240
- Lessee (SE4NE4)*
8 MADISON M. HINKLE
P.O. Box 2292
Roswell, NM 88202-2292

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

Fee Lease (T.1 on attached plat - cont.)

9 **Lessee (NE4; N2SE4)**
BC OPERATING, INC.
P.O. Box 50820
Midland, TX 79710

10 **Lessee (NW4SE4)**
INLAND TITLE LLC
100 N. Pennsylvania Ave.
Roswell, NM 88203

State Leases E0-1310-0000 (T.2 on attached plat.)

11 **Lessee / Operator**
SLASH EXPLORATION, LP
PO Box 1973
Roswell, New Mexico 88202

State Lease E0-1932-0001 (T.3 on attached plat.)

12 **Lessee**
CONOCOPHILLIPS
P.O. Box 7500
Bartlesville , OK 74005

State Lease VB-2076-001 (T.4 on attached plat.)

Lessee
GMT EXPLORATION COMPANY, LLC
1560 Broadway, Suite 2000
Denver, CO 80202

BLM Leases NMNM-115425 (T.5 on attached plat.)

13 YATES PETROLEUM CORPORATION
105 S. 4th Street
Artesia, NM 88210

BLM Leases NMNM-128370 (T.6 on attached plat.)

GMT EXPLORATION COMPANY, LLC
1560 Broadway, Suite 2000
Denver, CO 80202

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

OFFSET MINERALS OWNER (All Notified via USPS Certified Mail)

14 NEW MEXICO STATE LAND OFFICE
Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, NM 87501

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

REGULATORY

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

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed copy)
1625 S. French Drive
Hobbs, NM 88240

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

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<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To Street and City, State: LIMESTONE DEV LIVESTOCK, LLC P.O. Box 190 Lovington, NM 88260	
PS Form	
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<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To Street and City, State: GMT EXPLORATION COMPANY, LLC 1560 Broadway, Suite 2000 Denver, CO 80202	
PS Form	
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<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To Street and City, State: CHESAPEAKE EXPLORATION, LLC P.O. Box 18496 Oklahoma City, OK 73154	
PS Form	
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<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To Street and City, State: MRC PERMIAN COMPANY 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	
PS Form	

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7015 0640 0007
7015 0640 0007
7015 0640 0007

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<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To Street and City, State: ENERGEX, LLC 4425 98th Street, Suite 200 Lubbock, TX 79424	
PS Form	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<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 \$	
Postage \$	
Total Postage and Fees \$	
Sent To Street and City, State: OXY USA WTP, LP 5 Greenway Plaza, Suite 110 Houston, TX 77046	
PS Form	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To Street and City, State: CHEVRON USA, INC. Attn: Jason Levine 1400 Smith Street Houston, TX 77002-7327	
PS Form	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To Street and City, State: MADISON M. HINKLE P.O. Box 2292 Roswell, NM 88202-2292	
PS Form	

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts - cont.)

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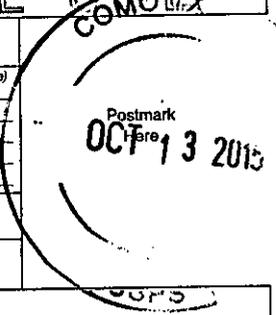
Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Postage and Fees
\$



Sent To
Street and City, State

BC OPERATING, INC.
P.O. Box 50820
Midland, TX 79710

PS Form 38

Return Receipt (electronic) \$

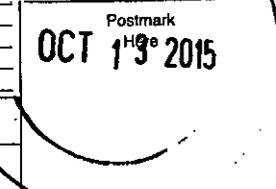
Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
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Total Postage and Fees
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Sent To
Street and City, State

SLASH EXPLORATION, LP
PO Box 1973
Roswell, New Mexico 88202

PS Form 38

Return Receipt (electronic) \$

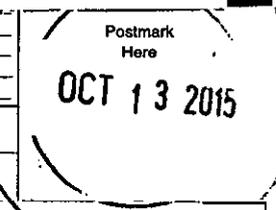
Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
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Total Postage and Fees
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Sent To
Street and City, State

YATES PETROLEUM CORP
105 S. 4th Street
Artesia, NM 88210

PS Form 38

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

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Sent To
Street and City, State

Bureau of Land Management
Carlsbad Field Office - O&G Division
620 E. Greene St.
Carlsbad, NM 88220

PS Form 38

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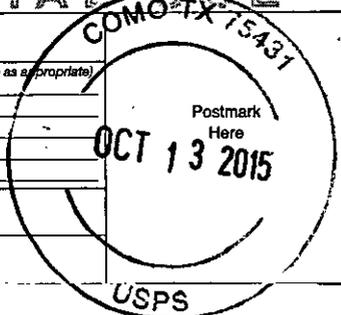
Certified Mail Restricted Delivery \$

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Postage
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Sent To
Street and City, State

INLAND TITLE LLC
100 N. Pennsylvania Ave.
Roswell, NM 88203

PS Form 38

Return Receipt (electronic) \$

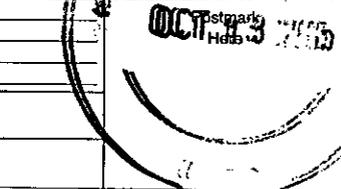
Certified Mail Restricted Delivery \$

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Adult Signature Restricted Delivery \$

Postage
\$

Total Postage and Fees
\$



Sent To
Street and City, State

CONOCO PHILLIPS
P.O. Box 7500
Bartlesville, OK 74005-7500

PS Form 38

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

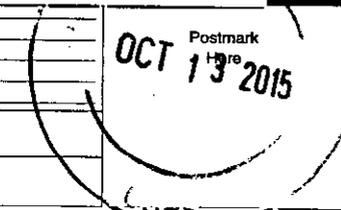
Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
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Total Postage and Fees
\$



Sent To
Street and City, State

NEW MEXICO STATE LAND OFFICE
Oil & Gas Division
310 Old Santa Fe Trail
Santa Fe, NM 87501

PS Form 38

Return Receipt (electronic) \$

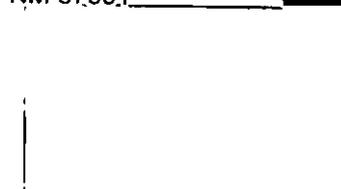
Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
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Total Postage and Fees
\$



Sent To
Street and City, State

Bureau of Land Management
Carlsbad Field Office - O&G Division
620 E. Greene St.
Carlsbad, NM 88220

PS Form 38

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

Owl SWD Operating, LLC

Limestone SWD No.2

C-108 sent 10/16/15

FedEx Tracking Nos.

OCD SF – 7747 5550 5686

OCD Hobbs – 7747 5551 7782

SLO – 7747 5553 1422

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

C-108 - Item XIV

Proof of Notice – Legal Notice Newspaper of General Circulation

LEGAL NOTICE October 14, 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
[drill and] permit for salt
water disposal its Limestone
SWD Well No.2. The well
will be located 244' FNL &
626' FEL in Section 12,
Township 23 South, Range
34 East in Lea County, New
Mexico. Produced water
from area production will be
commercially disposed into
the [Situro-] Devonian
formation through an
openhole interval between a
maximum applied for top of
15,000 feet to maximum
depth of 16,500 feet.
(Expected interval is 15,215'
to 16,348' but may alter
slightly based on logging.)
The maximum injection
pressure will be 3043 psi
surface (0.2 psi/ft gradient)
and a maximum rate limited
only by such pressure.

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.
#30400

The above is the "Proof Copy" sent from the Hobbs News Sun.
The affidavit of publication will be forwarded as soon as it is received.

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
October 14, 2015
and ending with the issue dated
October 14, 2015.



Publisher

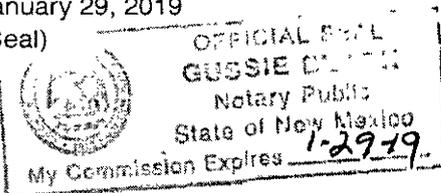
Sworn and subscribed to before me this
14th day of October 2015.



Business Manager

My commission expires
January 29, 2019

(Seal)



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

LEGAL NOTICE
October 14, 2015

Owl SWD Operating, LLC,
8214 Westchester Dr.,
Ste. 850, Dallas, TX 75255 is
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(Application for Authority to
Inject) with the New Mexico
Oil Conservation Division for
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[drill and] permit for salt
water disposal its Limestone
SWD Well No.2. The well
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34 East in Lea County, New
Mexico. Produced water
from area production will be
commercially disposed into
the [Siluro] Devonian
formation through an
openhole interval between a
maximum applied for 100' of
15,000' feet to maximum
depth of 16,500' feet.
(Expected interval is 15,215'
to 16,348' but may alter
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The maximum injection
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St. Francis Dr., Santa Fe,
NM 87505, (505)476-3460
within 15 days of the date of
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information may be obtained
from the applicant's agent,
SOS Consulting, LLC,
(903)488-9850 or, email
info@sosconsulting.us.
#30400

67104420

00164706

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

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

RECEIVED OOD

2015 OCT 22 P. 3: 09

*Email version
received 10-19-2015
MM*

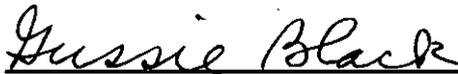
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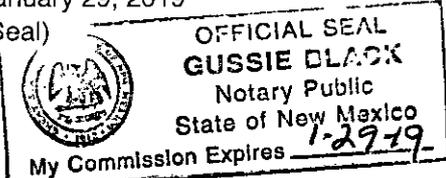
Publisher

Sworn and subscribed to before me this
14th day of October 2015.



Business Manager

My commission expires
January 29, 2019

(Seal) 

LEGALS

LEGAL NOTICE
October 14, 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 [drill and] permit for salt water disposal into its Limestone SWD Well No. 2. The well will be located 244' FNL & 626' FEL in Section 12, Township 23 South, Range 34 East in Lea County, New Mexico. Produced water from area production will be commercially disposed into the [Siluro-] Devonian formation through an openhole interval between a maximum applied for top of 15,000 feet to maximum depth of 16,500 feet. (Expected interval is 15,215' to 16,348' but may alter slightly based on logging.) The maximum injection pressure will be 3043 psi surface (0.2 psi/ft gradient) and a maximum rate limited only by such pressure.

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. #30400

67104420

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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

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



C-108 Review Checklist: Received 10/19 Add. Request: 10/19 Reply Date: 10/19 Suspended: _____ [Ver 15]

ORDER TYPE: WFX / PMX (SWD) Number: 1605 Order Date: _____ Legacy Permits/Orders: _____

Well No. 2 Well Name(s): Limestone SWD

API: 30-0 25-Pending Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 24 FNL 626 FEL Lot _____ or Unit A Sec 12 Tsp 23S Rge 34E County Lea

General Location: 1.5 miles S of E 4112E Pool: SWD, Devonian Pool No.: 9619

BLM 100K Map: JAI Operator: OW SWD Operating OGRID: 30839 Contact: BEN STONE

COMPLIANCE RULE 5.9: Total Wells: 18 Inactive: 2 Fincl Assur: Y Compl. Order? Y IS 5.9 OK? Y Date: 12/10/24

WELL FILE REVIEWED Current Status: Proposed

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

Planned Rehab Work to Well: CBL 7" Liner/Surface

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sp or Cf	Cement Top and Determination Method
* Planned ___ or Existing ___ Surface	<u>24"/20"</u>	<u>1800</u>	<u>2255</u>	<u>Surface/Visual</u>
Planned ___ or Existing ___ Interm/Prod	<u>17 1/2"/18 5/8"</u>	<u>*5350</u>	<u>4304</u>	<u>Surface/Visual</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4"/9 5/8"</u>	<u>11415</u>	<u>2188</u>	<u>Surface/Visual</u>
Planned ___ or Existing ___ Prod Liner	<u>5 1/2"/7"</u>	<u>15215</u>	<u>11215</u>	
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ OH/ PERF	<u>1500/16500</u>			

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops	Inj Length	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		<u>DV</u>	<u>15200</u>	<u>1500</u>	Drilled TD <u>16500</u> PBTD _____
Confining Unit: Litho. Struc. Por.					NEW TD _____ NEW PBTD _____
Proposed Inj Interval TOP:	<u>15263215</u>				NEW Open Hole <input checked="" type="radio"/> or NEW Perfs <input type="radio"/>
Proposed Inj Interval BOTTOM:	<u>16500</u>				Tubing Size <u>5 1/2</u> in. Inter Coated? <u>Y</u>
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth <u>15115</u> ft
Adjacent Unit: Litho. Struc. Por.					Min. Packer Depth <u>15115</u> (100-ft limit)
					Proposed Max. Surface Press. <u>3043</u> psi
					Admin. Inj. Press. <u>3043</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-NA Noticed? _____ BLM Sec Ord WIPP Noticed? _____ Salt/Salado T: _____ B: _____ NW: Cliff House fm _____

FRESH WATER: Aquifer 4200 water Max Depth 430 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: CAPITAN CAPITAN REEF (thru) adj. NA No. Wells within 1-Mile Radius? 0 FW Analysis _____

Disposal Fluid: Formation Source(s) Delaware, Bone Spring Analysis? Y 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? NA Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mile Radius Pool Map

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

Penetrating Wells: No. Active Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

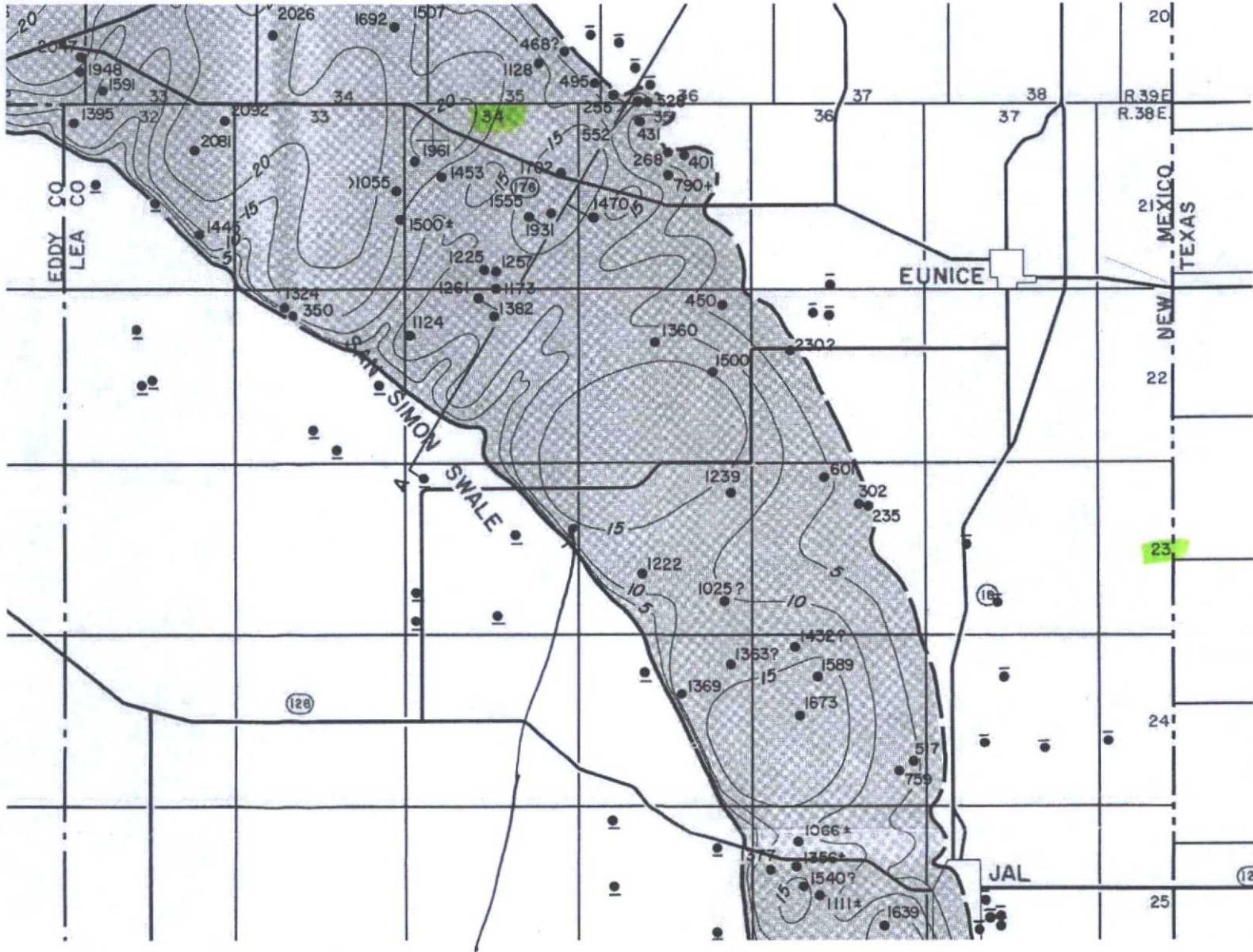
NOTICE: Newspaper Date 10/14/2015 Mineral Owner Limestone Surface Owner Limestone Limestone N. Date 10/13

RULE 26.7(A): Identified Tracts? Affected Persons: GM T, Chesapeake O&G N. Date 10/13

Order Conditions: Issues: Make the 1st Intermediate bet in Bell and

Add Order Cond: * must run the 1st Intermediate through casing & TV in Bell Canyon

Capitan reef



Approximate well location

