

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

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

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

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

Check One Only for [B] or [C]

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

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

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

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

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

- [B]  Offset Operators, Leaseholders or Surface Owner

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

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

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

- [F]  Waivers are Attached

- SWD 1592

RECEIVED OGD  
2015 JUN 29 A 11:23

Owl SWD Operating  
 Brininstool Ranch SWD #3  
 42760  
 30-025 - Pending  
 M-19-233-3SE  
 Devonian / Upper Ord.  
 Commercial

[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

*Ben Stone*  
 \_\_\_\_\_  
 Signature

Agent for Owl SWD Operating, LLC 6/17/15  
 \_\_\_\_\_  
 Title Date

ben@sosconsulting.us  
 \_\_\_\_\_  
 e-mail Address



June 24, 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 Brininstool Ranch SWD No.3 well, to be located in Section 19, Township 23 South, Range 33 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 Brininstool Ranch SWD Well No.3.

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 June 2, 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 federal minerals. The BLM APD is in process.

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.

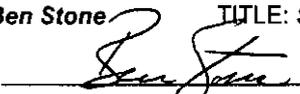
Ben Stone, Partner  
SOS Consulting, LLC  
Agent for Owl SWD Operating, LLC

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. **ALL wells in the ½ mile AOR have been P&A'd and NO WELLS penetrate the subject interval of Devonian formation.** 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 2 domestic water wells within one mile of the proposed salt water disposal well. Samples are being analyzed and 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 and ATTACHED. There are 3 offset lessees and/or operators within ½ mile and BLM minerals - 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: 6/17/2015

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.*

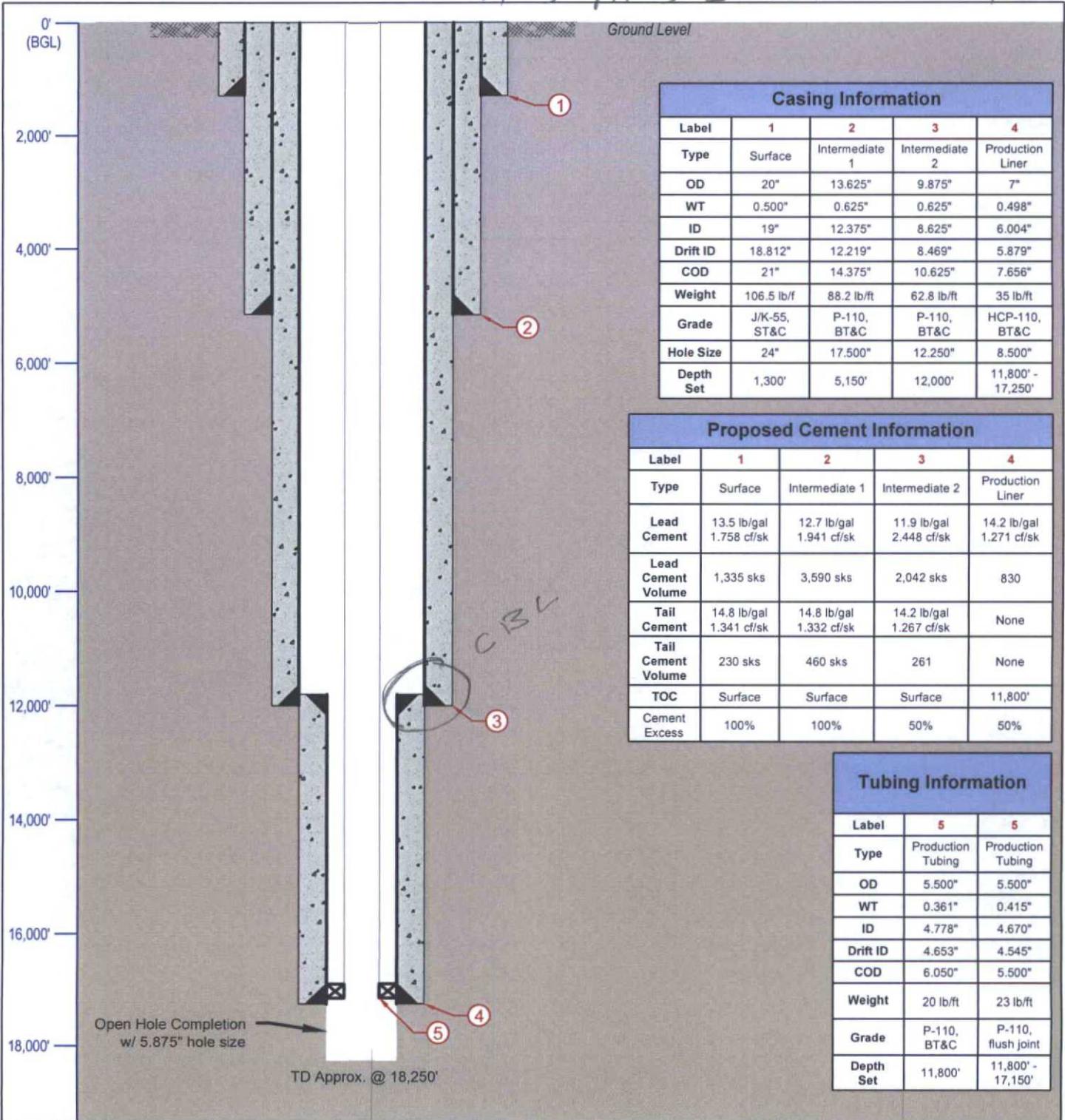
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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.**

Wed, Sept. 23rd BLM E-mail



**LONQUIST & CO. LLC**

PETROLEUM ENGINEERS ENERGY ADVISORS

AUSTIN HOUSTON WICHITA CALGARY

Texas License F-8952

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:

**Brinstool SWD No. 3**

State/Province: New Mexico

Site:

Field:

Project No:

Reviewed: RSC

Notes: Devonian completion.

County/Parish: Lea

Status: To Be Drilled

Ground Elevation: 3,710'

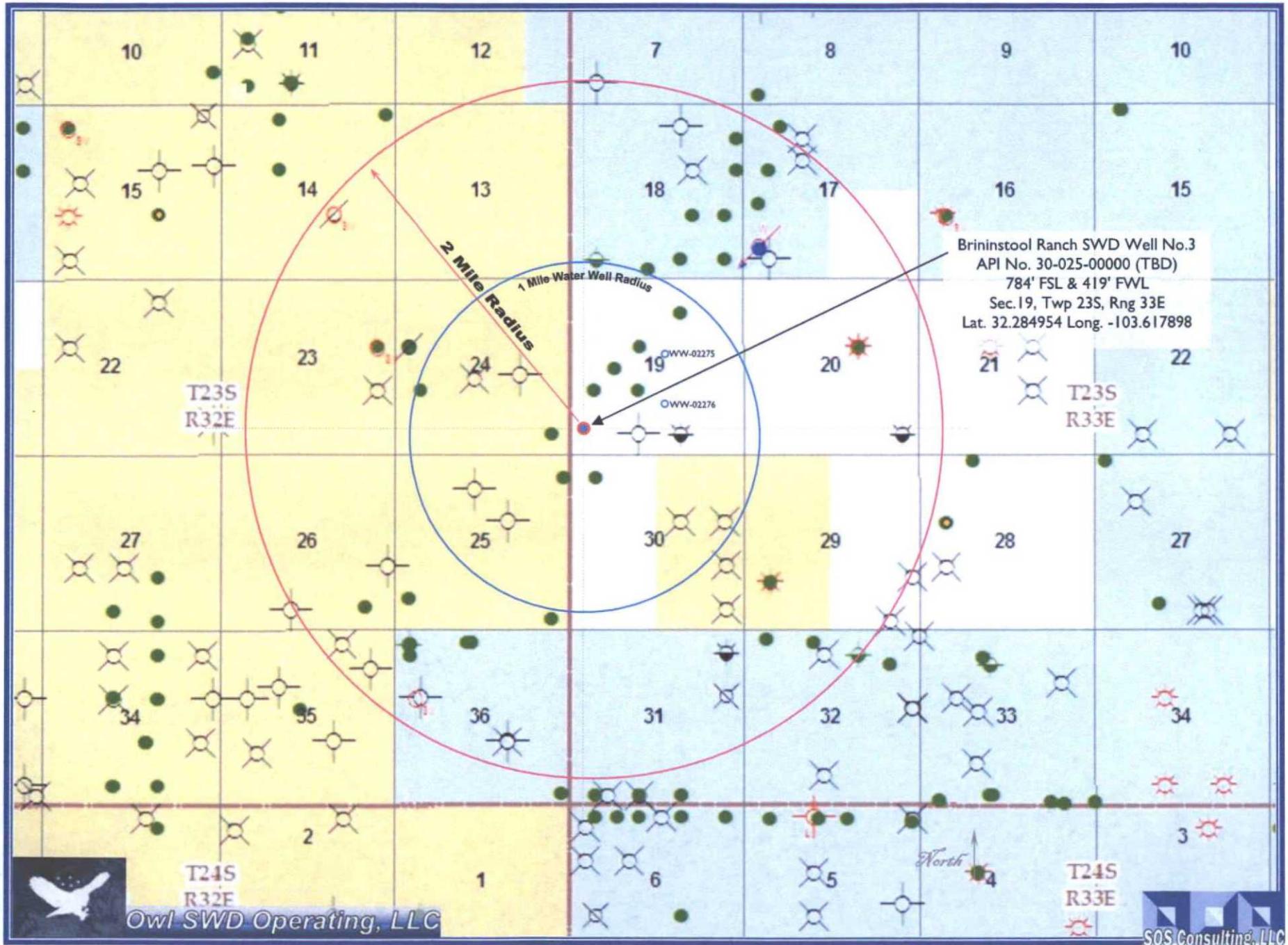
Date: 9/21/2015

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"	106.50	K 55	ST&C	6.93	1.14	0.83	1,300	138,450		
	"B"							0	0		
	w/8.4#/g mud, 30min 5fc Csg Test psig: 1,120							Tail Cmt	does not	circ to sfc.	Totals: 1,300 138,450
	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	1565	2655	1327	100	10.00	1756	2M	1.50	
	Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.										
	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	4.76	1.58	1.22	5,150	454,230		
"B"								0	0		
w/8.4#/g mud, 30min 5fc Csg Test psig:							Totals:	5,150	454,230		
The cement volume(s) are intended to achieve a top of					0	ft from surface or a		1300	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	4050	7581	3813	99	10.80	4591	5M	8.75	
MASP is within 10% of 5000psig, need											
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	2.10	1.42	1.01	12,000	753,600		
	"B"							0	0		
	w/8.4#/g mud, 30min 5fc Csg Test psig: 2,640							Totals:	12,000	753,600	
	The cement volume(s) are intended to achieve a top of					0	ft from surface or a		5150	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	2303	5330	3543	50	11.60	8302	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 @		11800			Design Factors		LINER	
Segment		#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight		
"A"		35.00	HCP 110	BUTT	1.82	1.15	0.96	5,450	190,750		
"B"								0	0		
w/8.4#/g mud, 30min 5fc Csg Test psig: 621							Totals:	5,450	190,750		
The cement volume(s) are intended to achieve a top of					11800	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	830	1055	702	50	13.50			0.422	
Capitan Reef est top XXXX. MASP is within 10% of 5000psig, need exrta equip?											

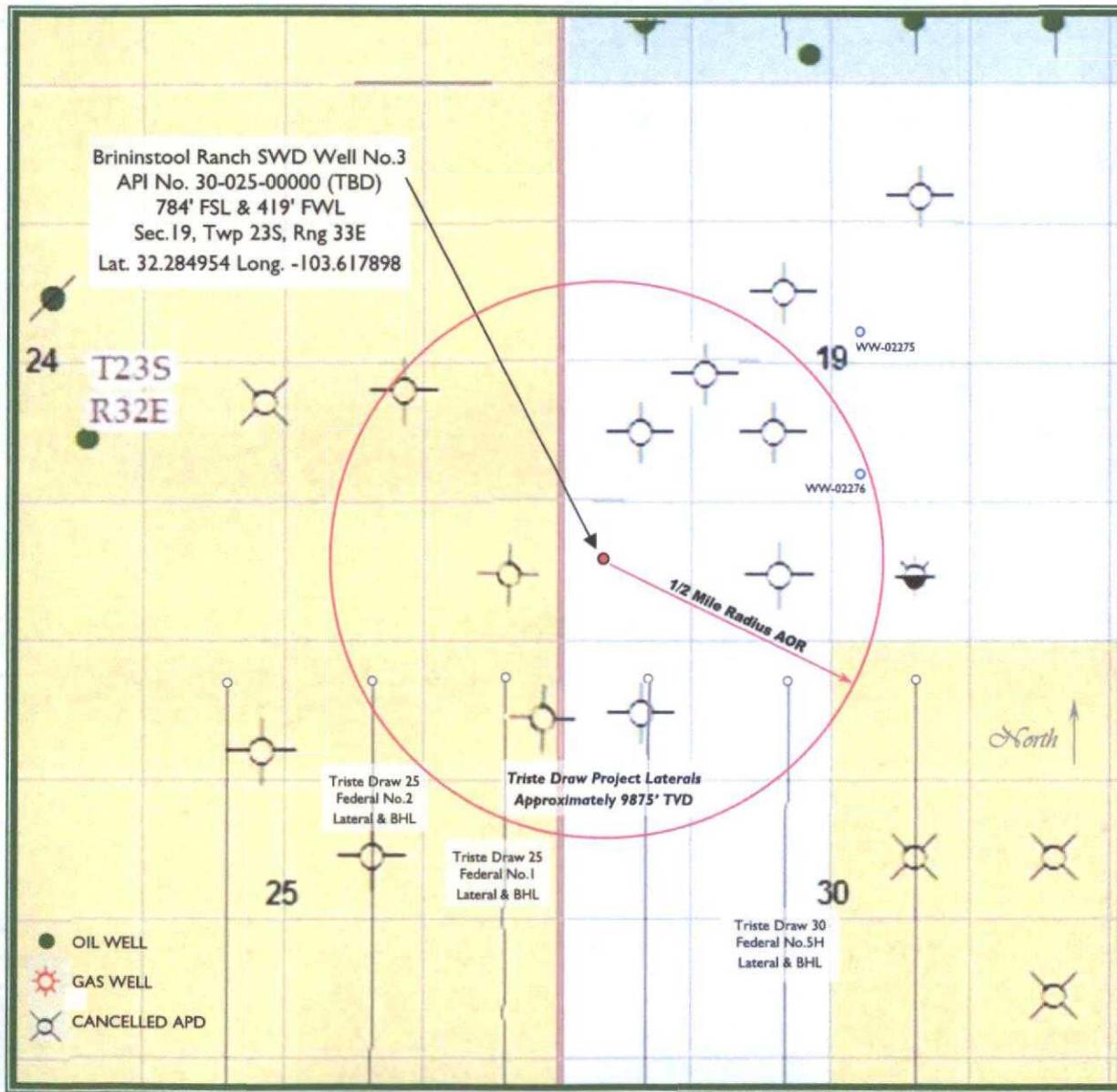
# Brininstool Ranch SWD Well No.3 - Area of Review - 2 Miles

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

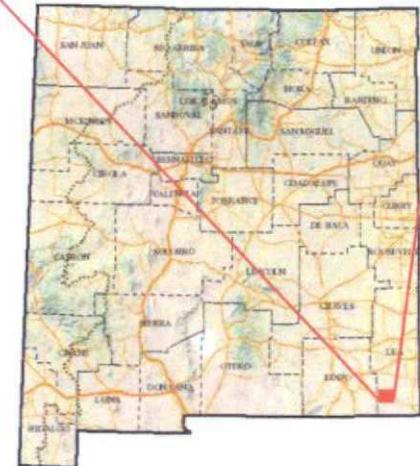


# Brininstool Ranch SWD Well No.3 - Area of Review / Overview Map

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



~32 miles Northwest of Jal, NM



Lea County, New Mexico



Owl SWD Operating, LLC



## **C-108 - Item VI**

Area of Review Well Data

**THERE ARE NO WELLS WHICH PENETRATE THE  
PROPOSED DEVONIAN FORMATION IN THE  
ONE-HALF MILE AREA of REVIEW.**

**All wells in the AOR have been P&A'd.**

**Several horizontal laterals enter the AOR from the south.  
These wells are in Cimerex Energy Company's Triste Draw Bone  
Spring Project with the lateral completions running  
approximately 9875' True Vertical Depth.**

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

### **Brininstool Ranch SWD Well No.3**

#### ***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 August 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 3200 psi (.2 psi/ft gradient) with an average pressure of approximately 580 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 (+)		Anions (-)	
				mg/L		mg/L	
Oxygen (mg/L)	1.00	Oil in Water (ppm)	NA	Barium (Ba)	0	Carbonate (CO <sub>3</sub> )	0
Carbon Dioxide (mg/L)	640.18	Specific Gravity	1.150	Calcium (Ca)	16.440	Bicarbonate (HCO <sub>3</sub> )	91.60
Hydrogen Sulfide (mg/L)	0.0	Total Dissolved Solids (TDS)	(mg/L) <u>180.000</u>	Magnesium (Mg)	300	Chloride (mg/L)	118.520
pH	5.7	Total Hardness (mg/L)	18.000	Sodium (Na) (cat)	54.270	Sulfate (SO <sub>4</sub> )	319
Temperature °F	73			Iron (Fe)	3.00		
				Manganese (Mn)	0.00		

## Water Analysis - Source Zone - DELAWARE

P. O. BOX 1100  
MCKINNEY, TEXAS 75070  
PH 972.332.0200 OR 972.332.1900

Martin Water Laboratories, Inc.

7810 MIDLAND  
W. GLASS, TEXAS 75041  
PH 972.332.0200

### RESULT OF WATER ANALYSES

TO Mr. Lou Small LABORATORY NO. 99293  
P. O. Box 31810 Midland, TX 79710 SAMPLE RECEIVED 9-16-92  
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			
pH (from Sample)				
pH (from Reagent)	6.26			
Calcium as Ca	145			
Calcium as CaO				
Magnesium as Mg	30.500			
Magnesium as MgO	18.000			
Sodium and Potassium	1.335			
Sulfate as SO <sub>4</sub>	68.581			
Chloride as Cl	947			
Iron as Fe	140.618			
Barium as Ba	90.0			
Total Solids				
Total Solids - Evaporated	229.531			
Temperature °F				
Carbon Dioxide Concentration				
Dissolved Oxygen				
Hydrogen Sulfide	0.0			
Resistivity (ohm-cm at 77°F)	0.053			
Suspended Solids				
Filterable Solids at 1µm				
Volatiles Filtered at 1µm				
Total Dissolved Solids @ 180°C	184.361			

## C-108 – Item VIII

### Geologic Information

The Devonian formation is comprised of carbonate and chert rocks and is found throughout the Permian Basin. In the area of this proposed well, the Devonian formation can be found at approximately 16,000' feet in total depth (~ -12,300' SS). The nearest Devonian production is in the Bell Lake Field about five miles east of this location. The Devonian in this area is estimated to be from 800'-1200' in total thickness and consists of a somewhat porous, tan dolomite capable of taking water from an injection well. Regional dip of the Devonian formation is to the southeast at a rate of about 100 feet per mile.

Immediately above the Devonian is the Woodford Shale. This shale formation is approximately 150-200 feet thick and is found immediately above the top of the Devonian in this region. Additional barrier geology above the Devonian and the Woodford would be the Wolfcamp shale and the massive Rustler formation, both of which are found between the proposed injection interval within the Devonian and the lowermost underground source of drinking water (USDW). In the region of this proposed well, these formations can be found at 14,800' (-11,100' SS) and 1200' (2500' SS) respectively.

At the proposed depth of 17,500', the well should TD approximately 1500 feet below the estimated top of the Devonian. Casing shoe depth and final TD will be determined by mud logging, drilling records, and openhole logging to ensure that the target interval remains Devonian and possibly upper Montoya. Once the Devonian has been determined, the casing shoe depth will be set at the top of the Devonian with the gross injection interval being the openhole section found within the formation. *In any event, the interval will likely be contracted between a maximum of 16,000' to 18,000'*

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 347 feet and a minimum of 225 feet.

There are 2 water wells located within one mile (both to NE) of the proposed SWD. Analyses will be forwarded to NMOCD upon receipt.

## C-108 – Item VIII

### Geologic Information – Depth to Groundwater (2 water wells within 1 mile of proposed SWD.)



## 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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<u>C 02275</u>	LE			3	3	2	19	23S	33E	630843	3573557*	650	400	250
<u>C 02276</u>	LE			3	1	4	19	23S	33E	630848	3573154*	650	400	250
<u>C 02277</u>	LE			2	3	4	20	23S	33E	632663	3572970*	550	400	150
<u>C 02278</u>	LE			3	4	2	28	23S	33E	634484	3571989*	650	400	250
<u>C 02279</u>	LE			3	4	3	28	23S	33E	633691	3571173*	650	400	250
<u>C 02280</u>	LE			3	2	4	28	23S	33E	634489	3571586*	650	400	250
<u>C 02281</u>	LE			3	4	4	28	23S	33E	634495	3571183*	545	400	145
<u>C 02282</u>	LE			3	1	1	25	23S	33E	638098	3572436*	325	225	100
<u>C 02283</u>	LE			4	2	2	26	23S	33E	637896	3572431*	325	225	100
<u>C 02284</u>	LE			4	2	4	26	23S	33E	637907	3571626*	325	225	100
<u>C 03582 POD1</u>	C LE			4	1	1	14	23S	33E	636583	3575666*	590		

Average Depth to Water: 347 feet

Minimum Depth: 225 feet

Maximum Depth: 400 feet

**Record Count:** 11

**PLSS Search:**

Township: 23S      Range: 33E

\*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.

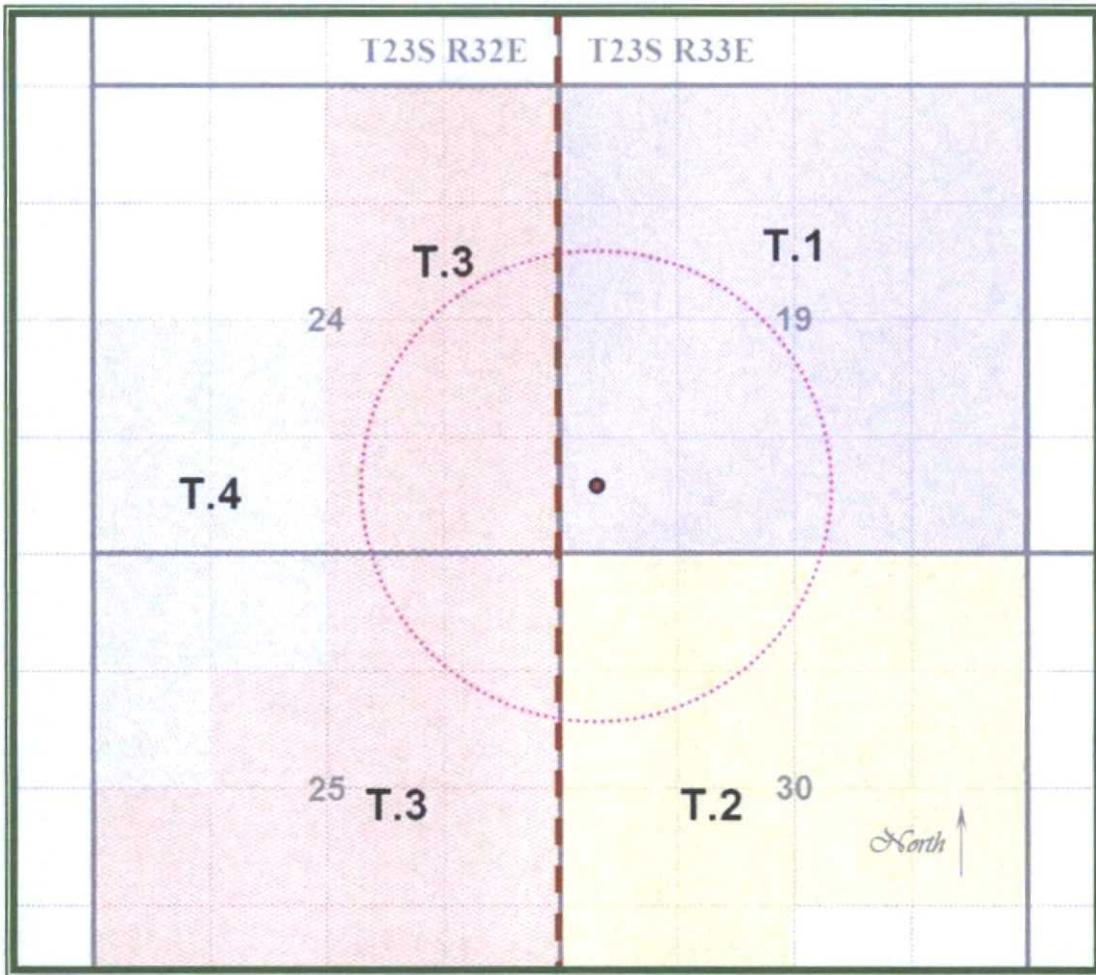
**C-108 ITEM XII – GEOLOGIC AFFIRMATION**

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  
Brininstool SWD No.3  
Reviewed 5/28/2015

**Brininstool SWD Well No.3 - Leasehold Plat**  
(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



Owl SWD Operating, LLC

— LEGEND —

- T.1 – NMLC-0068848 – ConocoPhillips Company  
(Private Surface – Brininstool Ranch)
- T.2 – NMNM-031224 – ConocoPhillips Company
- T.3 – NMLC-063228 – ConocoPhillips Company
- T.4 – NMNM-086154 – Devon Energy Production Co.

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

**SURFACE OWNER**

- 1 BRININSTOOL XL RANCH, LLC  
P.O. Box 940  
Jal, New Mexico 88252

**MINERALS LESSEES and OPERATORS (Including Offsetting)**

(All Notified via USPS Certified Mail)

**BLM Leases NMLC-0068848; NMNM-031224; NMLC-063228**

***Lessee***

- 2 CONOCOPHILLIPS  
P.O. Box 7500  
Bartlesville , OK 74005

***Operator***

- 3 CIMEREX ENERGY COMPANY  
600 N. Marienfeld Street, Ste.600  
Midland, TX 79701

**BLM Leases NMLC-0068848**

***Lessee / Operator***

- 4 DEVON ENERGY PRODUCTION COMPANY, LP  
333 W. Sheridan  
OKC, OK 73102

**MINERALS OWNER (Including Offsetting)**

(All Notified via USPS Certified Mail)

- 5 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



June 24, 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 Brininstool Ranch SWD Well No.3. The proposed SWD will be for commercial use. As indicated in the notice below, the well will be located in Section 19, Township 23 South, Range 33 East in Lea County, New Mexico.

The disposal interval will be through openhole from 16,000 feet to 18,000 feet in the Devonian formation.

Following is the legal notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about June 2, 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 [drill and] permit for salt water disposal its Brininstool Ranch SWD Well No.3. The well will be located 784' FSL & 419' FWL in Section 19, Township 23 South, Range 33 East in Lea County, New Mexico. Produced water from area production will be commercially disposed into the Devonian and Silurian (Upper Montoya) formations, as encountered and identified by log analysis, through an openhole completion between a maximum applied for top of 16,000 feet to maximum depth of 18,000 feet. (Actual interval will vary only by depth setting of casing and DTD when desired porosity interval is exposed meaning, total depth of the well could be slightly shallower and casing shoe deeper.) The maximum injection pressure will be 3200 psi surface (or 0.2 psi/ft gradient to uppermost injection interval) 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](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 5073  
7015 0640 0007 9482 5072  
7015 0640 0007 9482 5071

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**CERTIFIED MAIL® RECEIPT**  
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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee \$ 345

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

Return Receipt (hardcopy) \$ 280

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

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

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

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

Postage \$ 49

Total Postage and Fees \$ 674

Postmark Here JUN 26 2015

Sent To

Street and Apt. BRININSTOOL XL RANCH, LLC

City, State, Zip P.O. Box 940  
Jal, New Mexico 88252

PS Form 380

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

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Postmark Here JUN 26 2015

Sent To

Street and Apt. CIMEREX ENERGY COMPANY

City, State, Zip 600 N. Marienfeld Street, Ste.600  
Midland, TX 79701

PS Form 380

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Total Postage and Fees \$ 674

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Sent To

Street and Apt. CONOCO PHILLIPS

City, State, Zip P.O. Box 7500  
Bartlesville, OK 74005-7500

PS Form 380

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Total Postage and Fees \$ 674

Postmark Here JUN 26 2015

Sent To

Street and Apt. DEVON ENERGY PROD. CO., LP

City, State, Zip 333 W. Sheridan  
OKC, OK 73102

PS Form 380

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Sent To

Street and Apt. Bureau of Land Management

City, State, Zip Carlsbad Field Office - O&G Division  
620 E. Greene St.  
Carlsbad, NM 88220

PS Form 380

# Affidavit of Publication

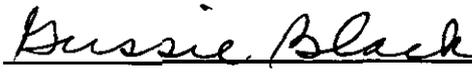
STATE OF NEW MEXICO  
COUNTY OF LEA

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).

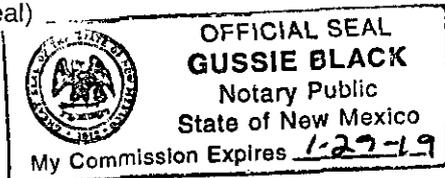
Beginning with the issue dated  
June 02, 2015  
and ending with the issue dated  
June 02, 2015.

  
\_\_\_\_\_  
Publisher

Sworn and subscribed to before me this  
2nd day of June 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

## LEGALS

### LEGAL NOTICE June 2, 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 Brininstool Ranch SWD Well No.3. The well will be located 784' FSL & 419' FWL in Section 19, Township 23 South, Range 33 East in Lea County, New Mexico. Produced water from area production will be commercially disposed into the Devonian and Silurian (Upper Montoya) formations, as encountered, and identified by log analysis; through an openhole completion between a maximum applied for top of 16,000 feet to maximum depth of 18,000 feet. (Actual interval will vary only by depth setting of casing and DTD when desired porosity interval is exposed meaning, total depth of the well could be slightly shallower and casing shoe deeper.) The maximum injection pressure will be 3200 psi surface (or 0.2 psi/ft gradient to uppermost injection interval) and a maximum rate limited only by such pressure.

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#30072

67104420

00157416

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



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

Well No. 3 Well Name(s): BRINWINSTON SWD

API: 30-0 25-427 60 Spud Date: PBN New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 784 FSL 419 EWL Lot (9) or Unit \_\_\_\_\_ Sec 14 Tsp 235 Rge 335 County Lea

General Location: 2250ftes NW JAI Pool: SWD, Devonian Pool No.: \_\_\_\_\_

BLM 100K Map: JAI Operator: SWD operating, LK OGRID: 30831 Contact: Stone

COMPLIANCE RULE 5.9: Total Wells: 16 Inactive: 0 Fincl Assur: Y Compl. Order? Y IS 5.9 OK? Y Date: 10-14-2015

WELL FILE REVIEWED  Current Status: Proposed

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

Planned Rehab Work to Well: CBL N/W Liner & 2nd intermediate

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>24 / 20</u>	<u>1300</u>	<u>1471</u>	<u>SURFACE / VIS44</u>
Planned ___ or Existing ___ Interm/Prod	<u>17 1/2 / 13 3/8</u>	<u>5150</u>	<u>4233</u>	<u>SURFACE / VIS44</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4 / 9 1/8</u>	<u>12000</u>	<u>2803</u>	<u>SURFACE / VIS44</u>
Planned ___ or Existing ___ Prod/Liner				
Planned ___ or Existing ___ Liner	<u>8 1/2" / 7 1/2"</u>	<u>1700 / 16400</u>	<u>691</u>	<u>11800 / CBL</u>
Planned ___ or Existing ___ OH / PERF	<u>17000 / 19000</u>		<u>150</u>	

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops	Inj Length	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.	<u>[REDACTED]</u>	<u>WD</u>	<u>16850</u>	<u>150</u>	Drilled TD <u>17250</u> PBSD _____
Confining Unit: Litho. Struc. Por.		<u>DV</u>	<u>17000</u>		NEW TD _____ NEW PBSD _____
Proposed Inj Interval TOP:					NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Proposed Inj Interval BOTTOM:					Tubing Size <u>5 1/2</u> in. Inter Coated? <u>Y</u>
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth <u>16300</u> ft
Adjacent Unit: Litho. Struc. Por.	<u>[REDACTED]</u>				Min. Packer Depth <u>15300</u> (100-ft limit)
					Proposed Max. Surface Press. <u>3700</u> psi
					Admin. Inj. Press. <u>3200</u> (0.2 psi per ft)

**AOR: Hydrologic and Geologic Information**

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

FRESH WATER: Aquifer DOCKUM Max Depth 400 HYDRO AFFIRM STATEMENT By Qualified Person

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

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

Disposal Int: Inject Rate (Avg/Max BWPD): 15000/3000 Protectable Waters? Y Source: \_\_\_\_\_ System: Closed  or Open

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

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

Penetrating Wells: No. Active Wells 1 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

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

NOTICE: Newspaper Date 9-21-2015 Mineral Owner BLM Surface Owner Brinwinston XL N. Date 6-26

RULE 26.7(A): Identified Tracts? Y Affected Persons: Cimarex, BLM N. Date 6-26-2015

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

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



# 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	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02275		LE		3	3	2	19	23S	33E	630843	3573557*	650	400	250
C 02276		LE		3	1	4	19	23S	33E	630848	3573154*	650	400	250
C 02277		LE		2	3	4	20	23S	33E	632663	3572970*	550	400	150

Average Depth to Water: 400 feet

Minimum Depth: 400 feet

Maximum Depth: 400 feet

Record Count: 3

PLSS Search:

Section(s): 17-20

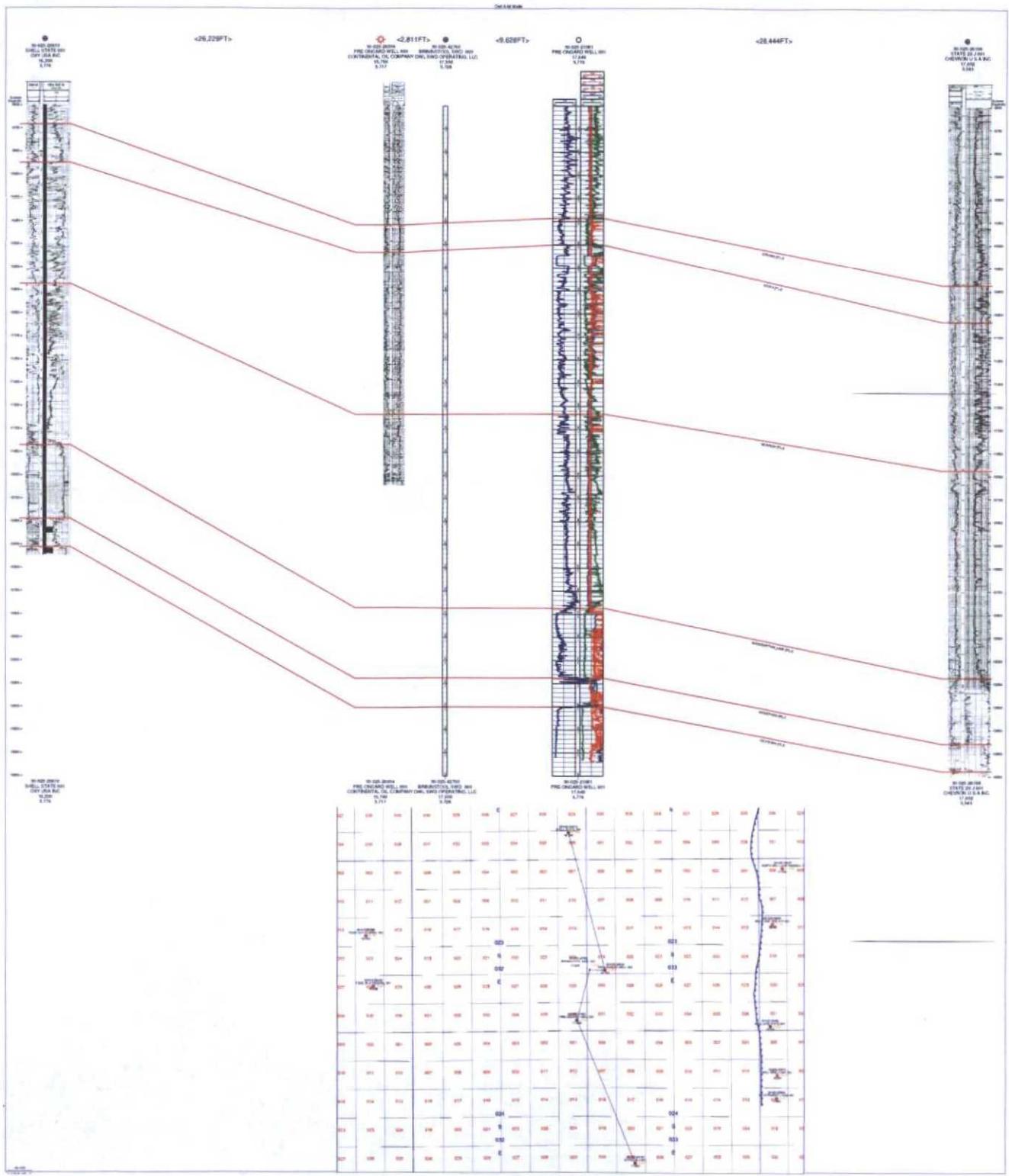
Township: 23S

Range: 33E

\*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.





●  
 01-02-2010  
 STATE OF ILL  
 17 000  
 5.776

<math>-26.229FT</math>

●  
 01-02-2010  
 STATE OF ILL  
 17 000  
 5.776

<math>-2.811FT</math>

○  
 01-02-2010  
 STATE OF ILL  
 17 000  
 5.776

<math>-0.628FT</math>

<math>-02.444FT</math>

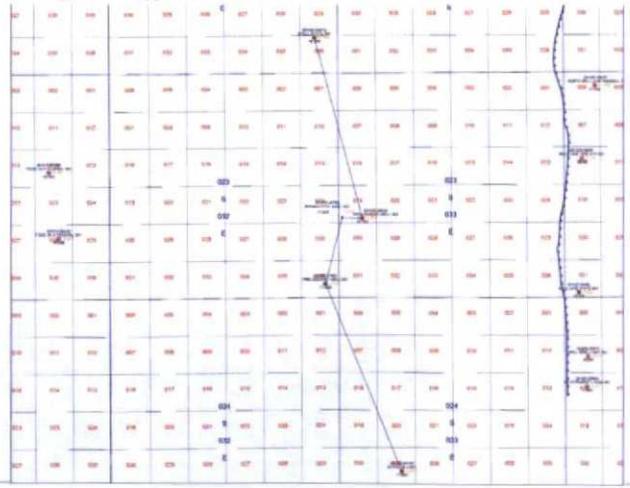
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 01-02-2010  
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 17 000  
 5.776

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 01-02-2010  
 STATE OF ILL  
 17 000  
 5.776



# Affidavit of Publication

Received  
10-05-2015

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).

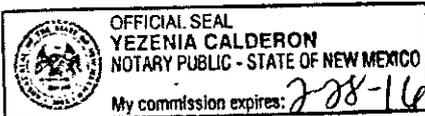
Beginning with the issue dated  
September 27, 2015  
and ending with the issue dated  
September 27, 2015.

Gussie Black  
Business Manager

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

Yezenia Calderon  
Circulation Coordinator

My commission expires  
February 28, 2016  
(Seal)



**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 [drill and] permit for salt water disposal its Brininstool Ranch SWD Well No.3. The well will be located 784' FSL & 419' FWL in Section 19, Township 23 South, Range 33 East in Lea County, New Mexico. Produced water from area production will be commercially disposed into the Devonian and Silurian (Upper Montoya) formations, as encountered and identified by log analysis, through an openhole completion between a maximum applied for top of 17,000 feet to maximum depth of 18,500 feet. (Actual interval will vary only by depth setting of casing and DTD when desired porosity interval is exposed meaning total depth of the well could be slightly shallower and casing shoe deeper.) The maximum injection pressure will be 3400 psi surface (or 0.2 psi/ft gradient to uppermost injection interval) and a maximum rate limited only by such pressure.  
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BEN STONE  
SOS CONSULTING, LLC.  
P.O. BOX 300  
COMO, TX 75431

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STATE OF NEW MEXICO  
COUNTY OF LEA

RECEIVED OGD

2015 OCT -6 A 2:55

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Gussie Black

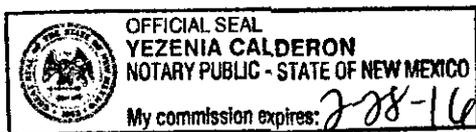
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**#30349**