

ABOVE THIS LINE FOR DIVISION USE ONLY

*Suspended
7-25-2017
- no return
receipt*

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

*- SWD - 16th Water
- Solaris Midstream, LLC
371643*

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

*W-11
- Predictions w/4
30-015 - Pending
Pool
- SWD, Devonian -
Silurian
47869*

[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 Solaris Water Midstream, LLC	7/21/17
Print or Type Name	Signature	Title	Date
		ben@sosconsulting.us	
		e-mail Address	



July 21, 2017

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

Attn: Mr. David Catanach, Director

Re: Application of Solaris Water Midstream, LLC to permit for salt water disposal in the proposed Predator SWD Well No.1, to be located in Section 1, Township 24 South, Range 31 East, NMMPM, Eddy County, New Mexico.

Dear Mr. Catanach,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal, the Predator SWD No.1.

Solaris Water Midstream seeks to optimize efficiency, both economically and operationally, of its operations and to offer additional disposal options for operators 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 will run on or about July 21, 2017 in the edition of the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit will be forwarded when received. This application also includes a wellbore schematic, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on federal land and minerals; a copy of this application has been submitted to the Bureau of Land Management, Carlsbad Field Office, Oil and Gas Division.

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 Solaris Water Midstream, 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: **Solaris Water Midstream, LLC**
ADDRESS: **701 Tradewinds Blvd., Suite C, Midland, TX 79706**

CONTACT PARTY: **Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850**
- III. WELL DATA: **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 (0) Wells in the subject AOR which 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. **NO P&A Wells penetrate.**
- VII. **The following data is ATTACHED** on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. **Appropriate geologic data on the Injection zone is ATTACHED** including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. **Stimulation program – a conventional acid job may be performed to clean and open the formation.**
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **Well Logs will be filed with OCD.**
- *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 3 offset lessees and/or operators within ½ mile and BLM minerals - all have been noticed. Well location is Federal.**
- 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 Solaris Water Midstream, LLC**

SIGNATURE:  DATE: 7/20/2017

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

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

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

FORM C-108 – APPLICATION FOR AUTHORIZATION TO INJECT (cont.)

III. WELL DATA – *The following information and data is included (See ATTACHED Wellbore Schematic):*

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No., Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or 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.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

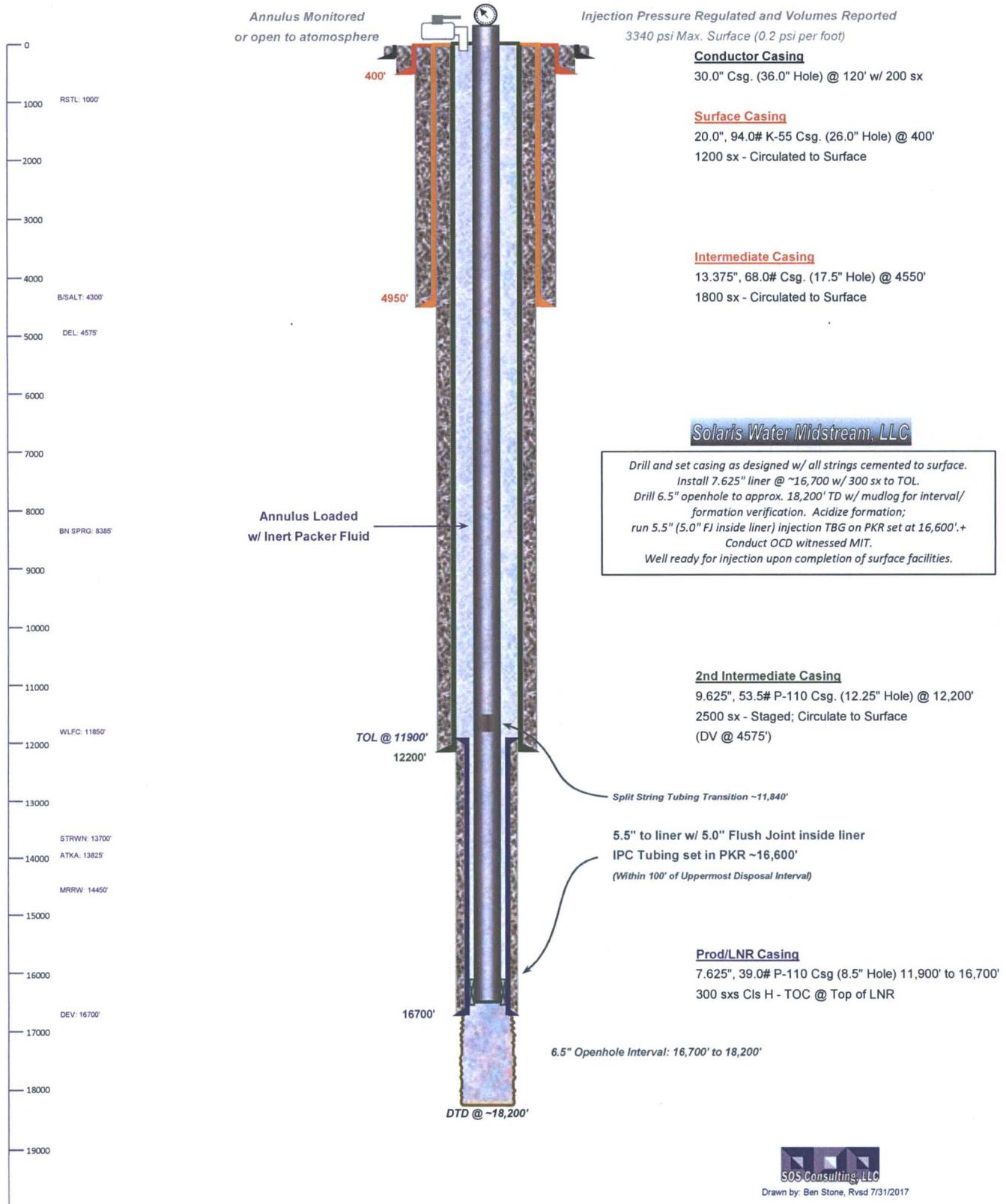


WELL SCHEMATIC - PROPOSED
Predator SWD Well No.1

API 30-015-xxxxx
 1440' FSL & 2456' FEL, SEC. 1-T24S-R31E
 EDDY COUNTY, NEW MEXICO

SWD; Devonian (96101)

Spud Date: 9/01/2017
 SWD Config Dt: 9/25/2017



Solaris Water Midstream, LLC

Drill and set casing as designed w/ all strings cemented to surface.
 Install 7.625" liner @ ~16,700 w/ 300 sx to TOL.
 Drill 6.5" openhole to approx. 18,200' TD w/ mudlog for interval/
 formation verification. Acidize formation;
 run 5.5" (5.0" FI inside liner) injection TBG on PKR set at 16,600'.+
 Conduct OCD witnessed MIT.
 Well ready for injection upon completion of surface facilities.

2nd Intermediate Casing
 9.625", 53.5# P-110 Csg. (12.25" Hole) @ 12,200'
 2500 sx - Staged; Circulate to Surface
 (DV @ 4575')

Split String Tubing Transition ~11,840'

5.5" to liner w/ 5.0" Flush Joint inside liner
 IPC Tubing set in PKR ~16,600'
 (Within 100' of Uppermost Disposal Interval)

Prod/LNR Casing
 7.625", 39.0# P-110 Csg (8.5" Hole) 11,900' to 16,700'
 300 sxs Cls H - TOC @ Top of LNR

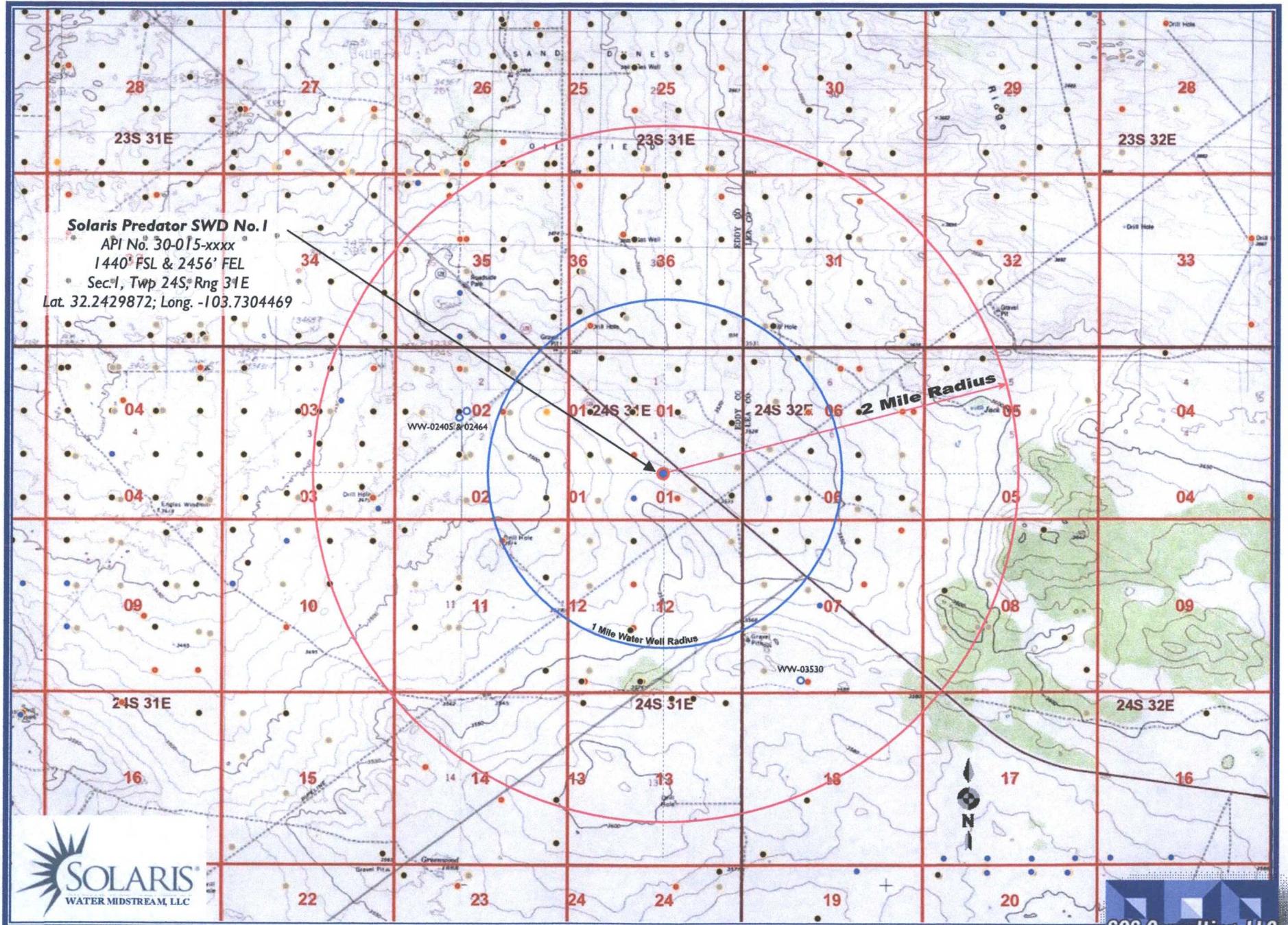
6.5" Openhole Interval: 16,700' to 18,200'



Drawn by: Ben Stone, Rvsd 7/31/2017

Solaris Predator SWD No.1 - Area of Review / 2 Miles

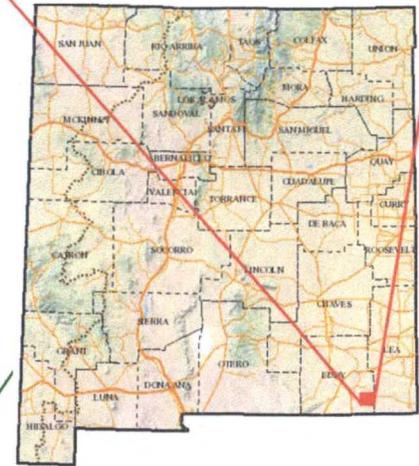
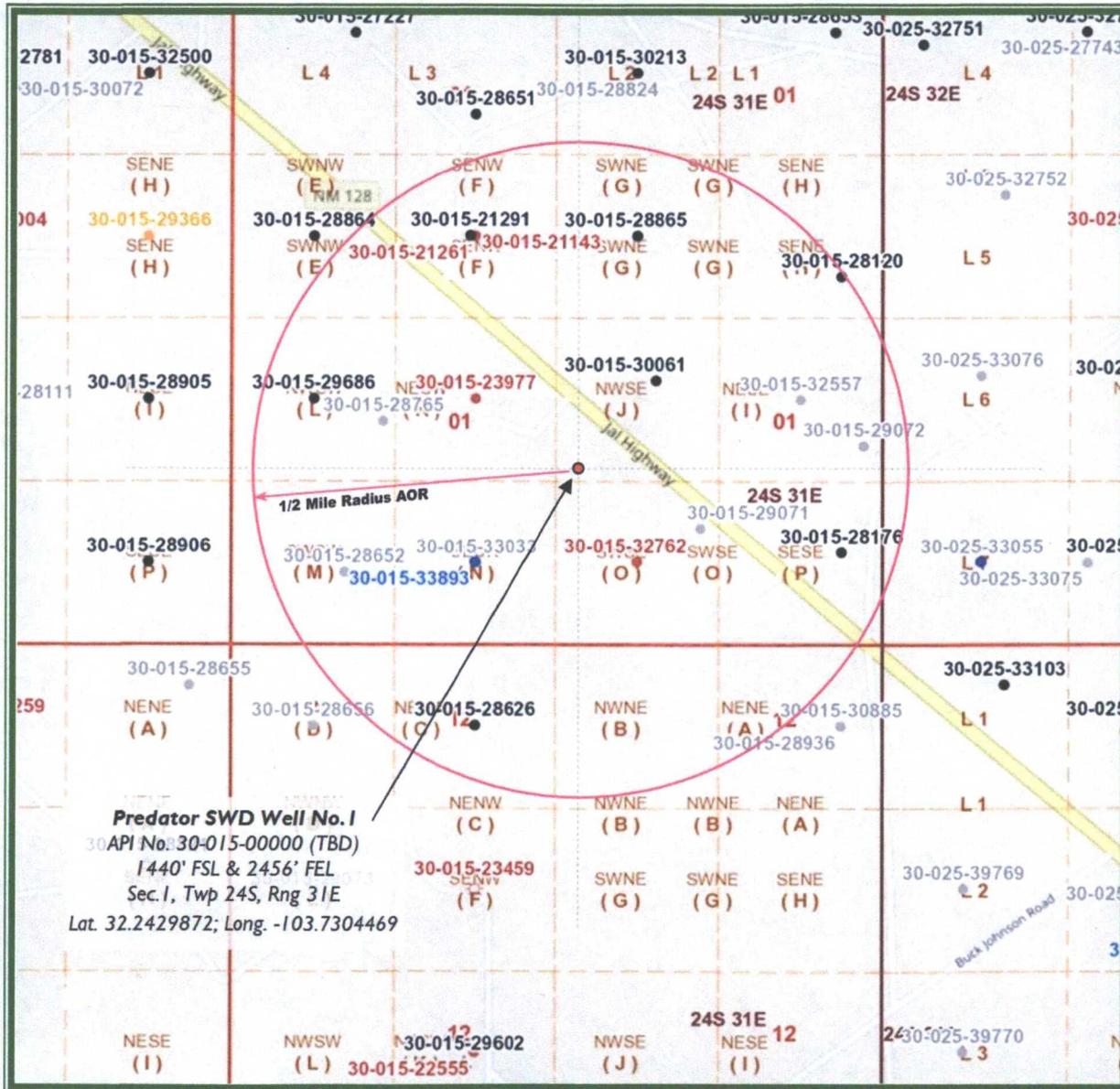
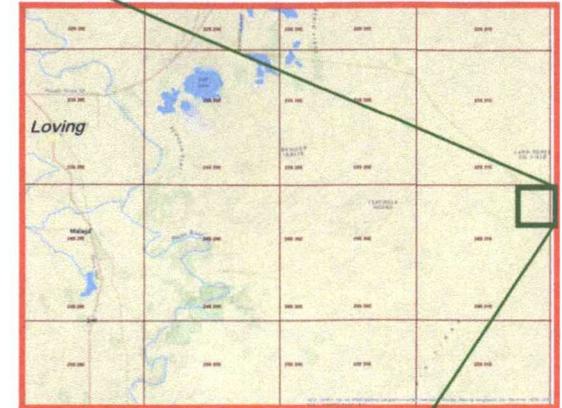
(Attachment to NMOCD Form C-108 - Item V)



Predator SWD Well No.1 - Area of Review / Overview Map

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

~21.5 miles E/SE of Loving, NM



Eddy County, New Mexico



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**

C-108 ITEM X

LOGS and AVAILABLE TEST DATA

**A Standard Suite of Logs will be run after
drilling the well and submitted to the Division.**

C-108 ITEM VII – PROPOSED OPERATION

Predator SWD No.1

Commercial SWD Facility

Upon approval of all permits for SWD, operations would begin within 30 days. Completion of the well operations will take approximately 6-8 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.

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 and BLM test procedures. (Notify NMOCD and BLM 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 not be fenced 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 25,000 bpd and an average of 15,000 bpd at a maximum surface injection pressure of 3340 psi (.2 psi/ft gradient – maximum pressure will be adjusted if the top of interval is modified after well logs are run).

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 and BLM 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; 40 CFR Part 300, 302 and 355; as necessary and appropriate. For spills greater than 5 bbls, OCD form C-141 will be submitted and for greater than 10 bbls., BLM from NTL-3A will also be submitted.

C-108 ITEM VII – PRODUCED WATER ANALYSES

Item VII.4 – Water Analysis of Source Zone Water

Delaware
Bone Spring
Wolfcamp
Morrow

Item VII.5 – Water Analysis of Disposal Zone Water

Devonian

Water Analyses follow this page.

**C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream, LLC - Predator SWD Well No.1**

SOURCE ZONE

DELAWARE

API No	3002508367	Lab ID	
Well Name	BELL LAKE UNIT 007	Sample ID	4347
Location	ULSTR 01 24 S 33 E 660 N 660 E	Sample No	
		Lat / Long	32.25143 -103.51924
		County	Lea
Operator (when sampled)			
	Field SWD		Unit 1
Sample Date		Analysis Date	
	Sample Sourc UNKNOWN		Depth (if known)
	Water Typ		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	87686	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	53920	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	391
iron_mgL		sulfate_mgL	749
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

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



**C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream, LLC - Predator SWD Well No.1**

SOURCE ZONE

BONE SPRING

API No	3002502429	Lab ID	
Well Name	LEA UNIT 005	Sample ID	4916
Location	ULSTR 12 20 S 34 E 1980 S 1980 E	Sample No	
		Lat / Long	32.58504 -103.51106
		County	Lea
Operator (when sampled)			
	Field LEA	Unit J	
Sample Date		Analysis Date	
	Sample Sourc DST	Depth (if known)	
	Water Typ		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	202606	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	118100	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	5196
iron_mgL		sulfate_mgL	992
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

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



C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream, LLC - Solaris Predator SWD Well No.1

SOURCE ZONE

WOLFCAMP

API No	3001520138	Lab ID	
Well Name	MAHUN STATE 001	Sample ID	5688
Location	ULSTR 16 22 S 22 E 1800 N 1980 W	Sample No	
		Lat / Long	32.39340 -104.70979
		County	Eddy
Operator (when sampled)			
	Field	ROCKY ARROYO	Unit F
Sample Date	5/17/1968	Analysis Date	
	Sample Sourc	DST	Depth (if known)
	Water Typ		
ph	8.6	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	35495	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	19000	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	830
iron_mgL		sulfate_mgL	2500
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

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



C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream, LLC - Predator SWD Well No.1

SOURCE ZONE

MORROW

API No	3002520756	Lab ID	
Well Name	CUSTER MOUNTAIN UNIT 001	Sample ID	2434
Location	ULSTR 09 24 S 35 E 1980 S 1980 W	Sample No	
		Lat / Long	32.22999 -103.37431
		County	Lea

Operator (when sampled)

Field CINTA ROJA Unit K

Sample Date Analysis Date

Sample Source DST Depth (if known)
 Water Typ

ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	282741	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	176800	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	161
iron_mgL		sulfate_mgL	650
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

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



C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream, LLC - Predator SWD Well No.1

DISPOSAL ZONE

DEVONIAN

API No.	3002508483	Lab ID	
Well Name	BELL LAKE UNIT 006	Sample ID	5733
Location	ULSTR 06 23 S 34 E 660 S 1980 E	Sample No	
		Lat / Long	32.32821 -103.50663
		County	Lea
Operator (when sampled)			
	Field BELL LAKE NORTH	Unit	O
Sample Date		Analysis Date	
	Sample Source HEATER/TREATER	Depth (if known)	
	Water Type		
ph	7	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	71078	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	42200	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	500
iron_mgL		sulfate_mgL	1000
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

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



C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream, LLC - Solaris Brininstool SWD No.1

DISPOSAL ZONE

DEVONIAN

API No.	3002521082	Lab ID	
Well Name	ANTELOPE RIDGE UNIT 003	Sample ID	5720
Location	ULSTR 34 23 S 34 E 1980 S 1650 W	Sample No	
		Lat / Long	32.25922 -103.46068
		County	Lea
Operator (when sampled)			
	Field ANTELOPE RIDGE	Unit	K
Sample Date	11/14/1967	Analysis Date	
	Sample Source UNKNOWN	Depth (if known)	
	Water Type		
ph	6.9	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	80187	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	47900	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	476
iron_mgL		sulfate_mgL	900
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

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



C-108 – Item VIII

Geologic Information

The Devonian and Silurian consist of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thick sections of porous dolomite capable of taking water are believed present within the subject formations in the area. Depth control data was inferred from deep wells to the south and east. If the base of Devonian and top of Silurian rocks come in as expected the well will only be drilled deep enough for adequate logging rathole.

At a proposed depth of 18,200' BGL (Below Ground Level) the well will TD approximately 1,500' below the estimated top of the Devonian. Mud logging through the interval will ensure the target interval remains in Devonian and Silurian. Once Devonian is determined, the casing shoe depth will be set at an approximate maximum upper depth of 16,700' BGL. Injection will occur through the resulting openhole interval. Should mud or other logs indicate depth adjustment is required to exploit the desired formation as described; sundries with appropriate data will be filed with the OCD and BLM.

The Devonian is overlain by the Woodford Shale and Mississippian Lime and by the Middle and Lower Ordovician; Simpson, McKee and Ellenburger.

Fresh water in the area is generally available from the Santa Rosa formation and some alluvial deposits. State Engineer's records show water wells in the area with a depth to groundwater of 160 to 205 feet with an average depth to groundwater of 182 feet.

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

C-108 ITEM XI – WATER WELLS IN AOR

The NM Office of the State Engineer database indicates there are NO domestic water wells located within one mile of the proposed well.

Note: The results shown below are for entire sections encountered by a one-mile radius from the proposed well. When displayed by GIS coordinates, none of the wells fall within the radius.



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	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)				X	Y		
									q	q	q	q				
C 00225 A	CUB	IRR	8.4	GREGORY ROCKHOUSE RANCH	ED	C 02405		Shallow	4	1	02	24S	31E	617690	3568631*	
C 01246 AO		IRR	47.82	CATHLEEN MC INTIRE	ED	C 02405		Shallow	4	1	02	24S	31E	617690	3568631*	
C 02405	C	PRO	0	TEXACO EXPLORATION & PROD. IND	ED	C 02405		Shallow	4	1	02	24S	31E	617690	3568631*	
C 02452	C	PRO	0	TEXACO EXPLORATION & PROD INC.	ED	C 02405		Shallow	4	1	02	24S	31E	617690	3568631*	
					ED	C 02452			4	1	02	24S	31E	617690	3568631*	
C 02460	C	PRO	0	SONAT EXPLORATION	ED	C 02460		Shallow	3	02	24S	31E	617496	3568022*		
					ED	C 02460 POD2		Shallow	3	02	24S	31E	617496	3568022*		
C 02464	C	PRO	0	COMMISSIONER OF PUBLIC LANDS	ED	C 02464		Shallow	3	4	1	02	24S	31E	617589	3568530*
C 02576	C	PRO	0	SONAT EXPLORATION COMPANY	ED	C 02405		Shallow	4	1	02	24S	31E	617690	3568631*	
C 02901		PUB	0	B & H MAINTENANCE & CONST.	ED	C 02901			3	4	1	02	24S	31E	617589	3568530*

Record Count: 10

PLSS Search:

Section(s): 1, 2, 12 Township: 24S Range: 31E

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)				X	Y	
									q	q	q	q			
C 03530	C	STK	0	U.S. DEPT. OF INTERIOR-BLM	LE	C 03530 POD1		3	4	3	07	24S	32E	620886	3566156*

Record Count: 1

PLSS Search:

Section(s): 6, 7 Township: 24S Range: 32E

No PODs found.

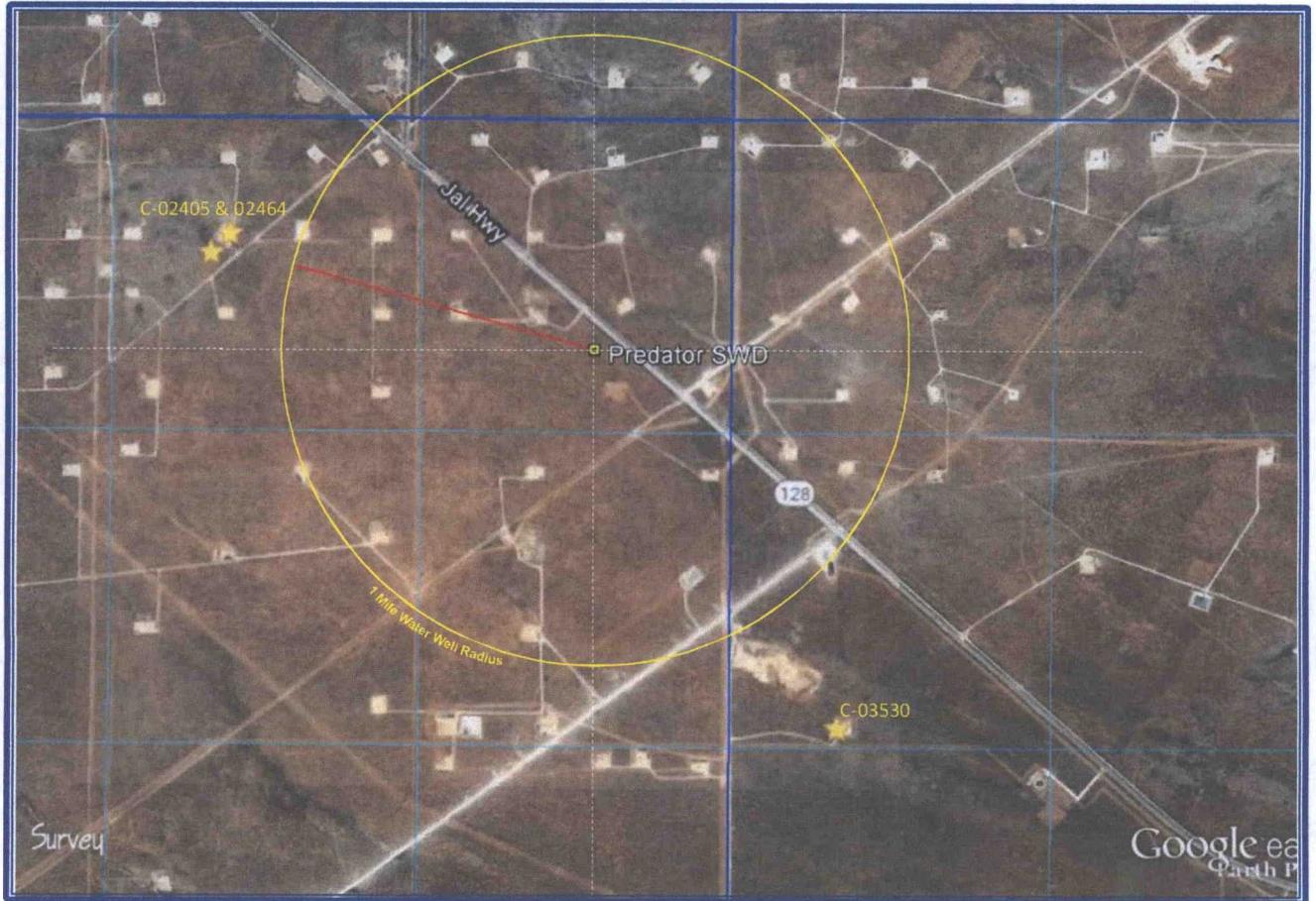
PLSS Search:

Section(s): 36 Township: 23S Range: 31E

C-108 Item XI

Water Wells Within One Mile

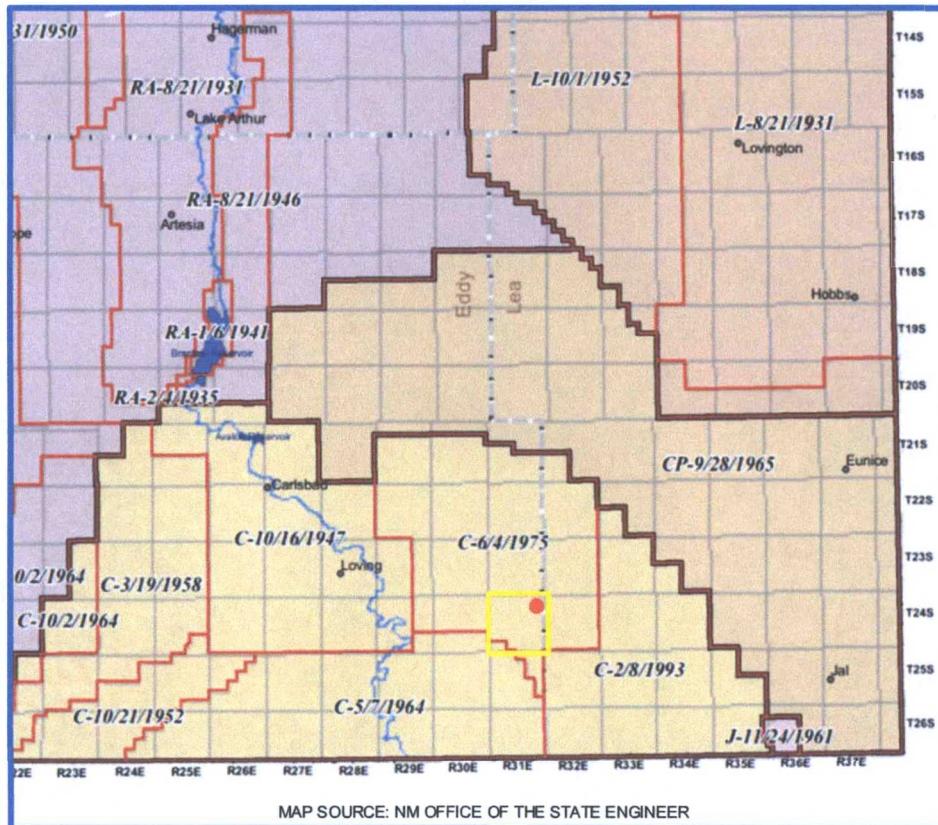
No water wells are shown to be within one mile of the proposed SWD



Note: Water well spots were generated from NM OSE active link coordinates.

C-108 - Item XI

Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Carlsbad Basin.

Fresh water in the area is generally available from the Santa Rosa or Cenozoic alluvial deposits of the Carlsbad Basin. State Engineer's records show water wells in 24S-31E with an average depth to water at 182 feet.

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

C-108 ITEM XI – WATER WELLS IN AOR

Depth to Ground Water



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	64	16	4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water Column	Water Column
C 02405	C	ED		4	1	02	24S	31E		617690	3568631*	275	160	115
C 02440	C	ED		2	3	10	24S	31E		616103	3566599*	350		
C 02460	C	ED		3	02		24S	31E		617496	3568022*	320		
C 02460 POD2	C	ED		3	02		24S	31E		617496	3568022*	320		
C 02464	C	ED		3	4	1	02	24S	31E	617589	3568530*	320	205	115
C 02661		ED		3	3	1	04	24S	31E	613969	3568485*	708		
C 02783	CUB	ED		3	3	1	04	24S	31E	613911	3568461	708		
C 02783 POD2	C	ED		3	3	1	04	24S	31E	613911	3568461	672		
C 02784	C	ED		4	2	4	04	24S	31E	613911	3568461	584		
C 02785		ED		3	3	1	04	24S	31E	613969	3568485*	692		

Average Depth to Water: 182 feet

Minimum Depth: 160 feet

Maximum Depth: 205 feet

Record Count: 10

PLSS Search:

Township: 24S

Range: 31E

*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: Solaris Water Midstream, LLC
Predator SWD No.1
Reviewed 7/18/2017

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Leasehold Plat

List of Interested Parties

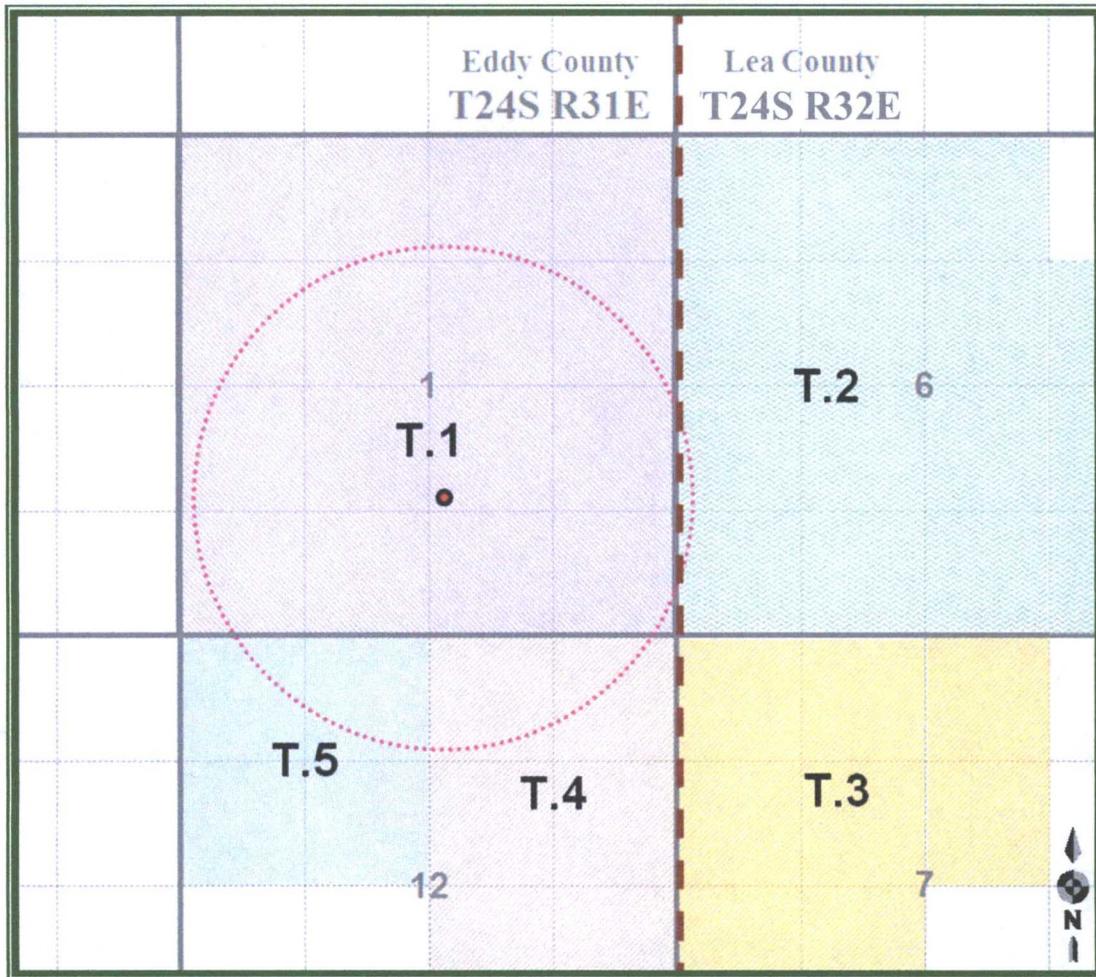
Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

Predator SWD Well No.1 - Leasehold Plat

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



LEGEND

- T.1 – NMNM-069369 – Chevron USA, Inc.
- T.2 – NMNM-077064 – Devon Energy Production Co.
- T.3 – NMNM-068084 – Devon Energy Production Co.,
Javelina Partners
- T.4 – NMNM-120901 – Chevron USA, Inc.
- T.5 – NMNM-067106 – Chevron USA, Inc.

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

SURFACE & MINERALS OWNER

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

MINERALS LESSEES (All Notified via USPS Certified Mail)

BLM Leases NMNM-069369, NMNM-120901, NMNM-067106; (T.1, T.4 and T.5 on plat.)

Lessee and Operator

- 2 CHEVRON USA, INC.
6310 Deauville
Midland, TX 79706

BLM Lease NMNM-077064 (T.2 on plat.)

Lessee and Operator

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

BLM Lease NMNM-068084 (T.3 on plat.)

Lessees and Operator

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

- 4 JAVELINA PARTNERS
616 Texas Street
Ft. Worth, TX 76102-4612

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

BUREAU OF LAND MANAGEMENT (FedEx'ed copy)
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220



July 20, 2017

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

To Whom It May Concern:

Solaris Water Midstream, LLC, Midland, Texas, has made application to the New Mexico Oil Conservation Division to drill and complete for salt water disposal the Predator SWD Well No.1. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well is located in Section 1, Township 24 South, Range 31 East in Eddy County, New Mexico.

The published notice states that the interval will be from 16,700 feet to 18,200 feet.

Following is the notice published in the Artesia Daily Press, New Mexico on or about July 21, 2017.

LEGAL NOTICE

Solaris Water Midstream, LLC, 701 Tradewinds Blvd., Suite C, Midland, TX 79706, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Predator SWD No.1, is located 1440' FSL and 2456' FEL, Section 1, Township 24 South, Range 31 East, Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Devonian, Silurian and Ordovician formations at a depth of 16,700' to 18,200' at a maximum surface pressure of 3340 psi and a rate limited only by such pressure. The proposed SWD well is located approximately 21.5 miles east/ southeast of Loving, NM.

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.

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 Solaris Water Midstream, LLC

Cc: Application File

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

7015 3010 0001 3789 9453

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee \$ _____

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

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ 6.59

Sent To **US**

Street and City, State **CHEVRON USA, INC.
 6310 Deauville
 Midland, TX 79706**

PS Form _____

Postmark Here **JUL 20 COME TX**

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ 6.59

Sent To **OK**

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

PS Form _____

Postmark Here **JUL 20 COME TX**

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ 6.59

Sent To **USPS**

Street and City, State **JAVELINA PARTNERS
 616 Texas Street
 Ft. Worth, TX 76102-4612**

PS Form _____

Postmark Here **JUL 20 COME TX 7543**

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

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ 6.59

Sent To **US**

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

PS Form _____

Postmark Here **JUL 20 COME TX**

C-108 - Item XIV

**Proof of Notice – Legal Notice
Newspaper of General Circulation**

Legal Notice

LEGAL NOTICE

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Published in the Artesia Daily Press, Artesia, N.M., July 21
2017 Legal No. 24364

The above is the "Proof Copy" sent from the Artesia Daily Press.
The affidavit of publication will be forwarded as soon as it is received.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JAVELINA PARTNERS
616 Texas Street
Ft. Worth, TX 76102-4612

9590 9403 0195 5120 3853 38

2. Article Number (Transfer from service label)
7015 3010 0001 3789 9439

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature]

B. Received by (Printed Name)
Staci Gilbert

C. Date of Delivery
7/24/17

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Mail Restricted Delivery

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

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

9590 9403 0195 5120 3853 07

2. Article Number (Transfer from service label)
7015 3010 0001 3789 9460

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature]

B. Received by (Printed Name)
[Blank]

C. Date of Delivery
7/24/17

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Mail Restricted Delivery

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-8053

Domestic Return Receipt

PS Form 3811, April 2015 PSN 7530-02-000-8053

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

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

9590 9403 0195 5120 3853 21

2. Article Number (Transfer from service label)
7015 3010 0001 3789 9446

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature]

B. Received by (Printed Name)
[Blank]

C. Date of Delivery
[Blank]

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Mail Restricted Delivery

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CHEVRON USA, INC.
6310 Deauville
Midland, TX 79706

9590 9403 0195 5120 3853 14

2. Article Number (Transfer from service label)
7015 3010 0001 3789 9453

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature]

B. Received by (Printed Name)
Elvia Brzoza

C. Date of Delivery
7/24/17

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Mail Restricted Delivery

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-8053

Domestic Return Receipt

PS Form 3811, April 2015 PSN 7530-02-000-8053

Domestic Return Receipt

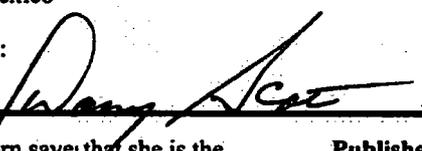
Affidavit of Publication

No. 24364

State of New Mexico

County of Eddy:

Danny Scott



being duly sworn say: that she is the Publisher

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/day on the same

day as follows:

First Publication July 21, 2017

Second Publication _____

Third Publication _____

Fourth Publication _____

Fifth Publication _____

Sixth Publication _____

Seventh Publication _____

Subscribed and sworn before me this

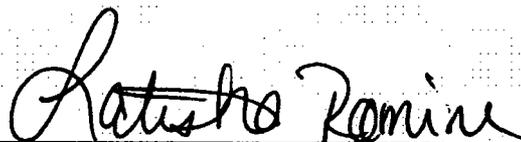
24 day of July 2017



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires

5/12/2019



Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

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Published in the Artesia Daily Press, Artesia, N.M., July 21 2017. Legal No. 24364

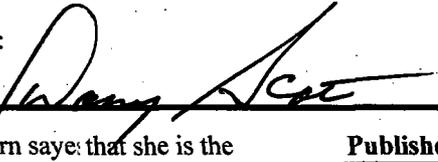
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County of Eddy:

Danny Scott



being duly sworn says that she is the Publisher

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

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First Publication	July 21, 2017
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

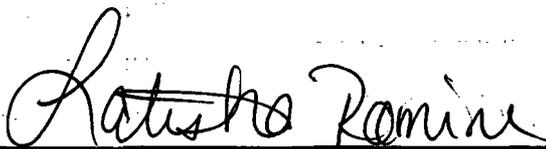
Subscribed and sworn before me this

24 day of July 2017



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019



Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

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Published in the Artesia Daily Press, Artesia, N.M., July 21 2017 Legal No. 24364

RECEIVED OOD
2017 AUG-4 P 2:15



C-108 Review Checklist: Received 7/25/2017 Add. Request: 7/3/2017 Reply Date: _____ Suspended: _____ [Ver 15]

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

Well No. _____ Well Name(s): Predator SWD

API: 30-0 1440FSL Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 2456 FEL Lot _____ or Unit 5 Sec 1 Tsp 245 Rge 31E County Eddy

General Location: 22 miles W of ALAGA Pool: SWD, Devonian-Silurian Pool No.: _____

BLM 100K Map: JAL Operator: Solaris Water Midstream, LLC OGRID: 371643 Contact: Ben Stone's Agent

COMPLIANCE RULE 5.9: Total Wells: 3 Inactive: 0 Fincl Assur: OK Compl. Order? MA IS 5.9 OK? Y 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: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement (Sx or Cf)	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>26" / 20"</u>	<u>400</u>	<u>1200</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod	<u>17 1/2" / 13 3/8"</u>	<u>4950</u>	<u>1800</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4" / 9 5/8"</u>	<u>12200</u>	<u>4575</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Prod/Liner	<u>8 3/4" / 7 5/8"</u>	<u>1670</u>	<u>300</u>	<u>11900 / C-B-L</u>
Planned ___ or Existing ___ (Liner)				
Planned ___ or Existing ___ (OH) PERF	<u>1670 / 1824</u>			

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		<u>DU</u>	<u>16700</u>	Drilled TD <u>1820</u> PBSD _____
Confining Unit: Litho. Struc. Por.		<u>MR</u>	<u>14400</u>	NEW TD _____ NEW PBSD _____
Proposed Inj Interval TOP:				NEW Open Hole <input checked="" type="radio"/> or NEW Perfs <input type="radio"/>
Proposed Inj Interval BOTTOM:				Tubing Size <u>4</u> in. Inter Coated? <u>Int</u>
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth <u>1660</u> ft
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth <u>1660</u> (100-ft limit)
				Proposed Max. Surface Press. <u>3340</u> psi
				Admin. Inj. Press. <u>2340</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P MA Noticed? _____ BLM Sec Ord WIPP Noticed? _____ Salt/Salado T: 100 B: 430 NW: Cliff House fm _____

FRESH WATER: Aquifer Quaternary Max Depth 1500 HYDRO AFFIRM STATEMENT By Qualified Person

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

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

Disposal Int: Inject Rate (Avg/Max BWPD): 154/232 Protectable Waters? Y Source: _____ System: Closed or Open

HC Potential: Producing Interval? N/A Formerly Producing? _____ Method: Logs/DST/P&A/Other regional 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map? Y 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 July 21 Mineral Owner BLM Surface Owner BLM N. Date July 24, 2017

RULE 26.7(A): Identified Tracts? Y Affected Persons: Chevron, DEVON N. Date July 24, 2017

Order Conditions: Issues: 0C-13-L-7500' top liner/btc

Add Order Cond: 2) + opened string -> 5 1/2" -> Surface & 5" / tubing