

10/27/2017 DATE IN	SUSPENSE	ENGINEER	10/21/2017 LOGGED IN	TYPE SWD	PMAM1730045958 APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

TS day clock
Stone
11-02-2017

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
- Solaris water
Midstream, LLC
371643
well FLY
- Current Data
SWD #1,
30-015-Pending
44557

[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

Pool
- SWD, Devonian
Silurian

[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	10/26/17
Print or Type Name	Signature	Title	Date
		ben@sosconsulting.us	
		e-mail Address	



October 26, 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 Corral Fly SWD Well No.1, to be located in Section 1, Township 25 South, Range 29 East, NMPM, 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 Corral Fly 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 October 17, 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 state land and minerals; a copy of this application has been submitted to the State Land 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,

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 is 1 (one) water well within one mile of the proposed salt water disposal well however; that well is P&A'd.**
- 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 9 offset lessees and/or operators within ½ mile and State minerals - all have been noticed. Well location is State.**
- 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: **10/26/2017**

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.

Solaris Water Midstream

WELLBORE DATA SHEET

LEASE: Pecos Star
WELL: Corral Fly SWD
LOCATION: Sec 1 T25S R29E
 Eddy County, NM
OBJECTIVE: Vertical Devonian Injection Well. Injection Interval 15,500' to +/-16,700. Silurian/Devonian & Fusselman

TOTAL DEPTH: 16,700' MD /TVD
SURF. LOC'N: 814' FSL, 1212' FWL
BTM. HOLE LOC'N: Same As Above
SURFACE ELEV.: 3125'

E LOGGING/ CEMENT	CASING SIZE (IN.)	RKB DRILL DEPTH		BOPE	FORMA.	HOLE SIZE (IN.)	MUD WT.	FRAC GRAD
		MD	TVD					
Grnd Level	RKB	33						
700 sxs Class C Lead 200 sxs Class C Tail 100% Excess	ELEV. 20"	575	575	Open		Driven	8.8	
94# K-55 LTC/BTC		1,732	1,732					
1100 sxs Class C Lead 200 sxs Class C Tail 50% Excess GR, CBL	13-3/8"	3,065	3,065		Salt Base	17-1/5"	9.0	
68.0 HCL-80 BT&C		3,255	3,255	13-5/8"-5M Annular	Delaware Lime		9.0	14.0
		3,260	3,260	13-5/8"-10M BOP's				
		4,160	4,160	DV Tool with ECP @ +/- 3,100'				
		5,700	5,700	Cherry Canyon/Del Sand		12-1/4"		
		7,075	7,075	Brushy Canyon				
Stage 1		8,800	8,800	1st Bone Springs				
1000 sxs 50/50 Poz 400 sxs Class H 25% Excess	Top of 7 5/8" Liner = 9,211,700	9,800	9,800	2nd Bone Springs				
Stage 2		10,265	10,265	3rd Bone Springs				
700 sxs Class C 200 sxs Class C Tail 30% Excess		11,950	11,950	Top of Wolfcamp				
GR, CBL	9-5/8"	12,000	12,000	Base of Wolfcamp/WC Shale			12.3	18.2
62.8# Q-125 LT&C		12,635	12,635	13-5/8"-5M Annular				
		12,835	12,835	13-5/8"-10M BOP's				
		13,310	13,310	Strawn				
		13,800	13,800	Atoka				
		14,430	14,430	Morrow				
				Mid Morrow		8-1/2"		
		15,100	15,100	Chester				
		15,475	15,475	Mississippian			12.5	14.7
250 sxs 50/50 Poz 200 sxs 50/50 Poz H 35% Excess		15,325	15,325	Woodford Shale				
GR, CBL	7 5/8"	15,475	15,475	Devonian				
39.0# P-110 FJ				13-5/8"-10M Annular				
				13-5/8"-10M BOP's				
				Silurian-Devonian				8.3
		16,700	16,700					

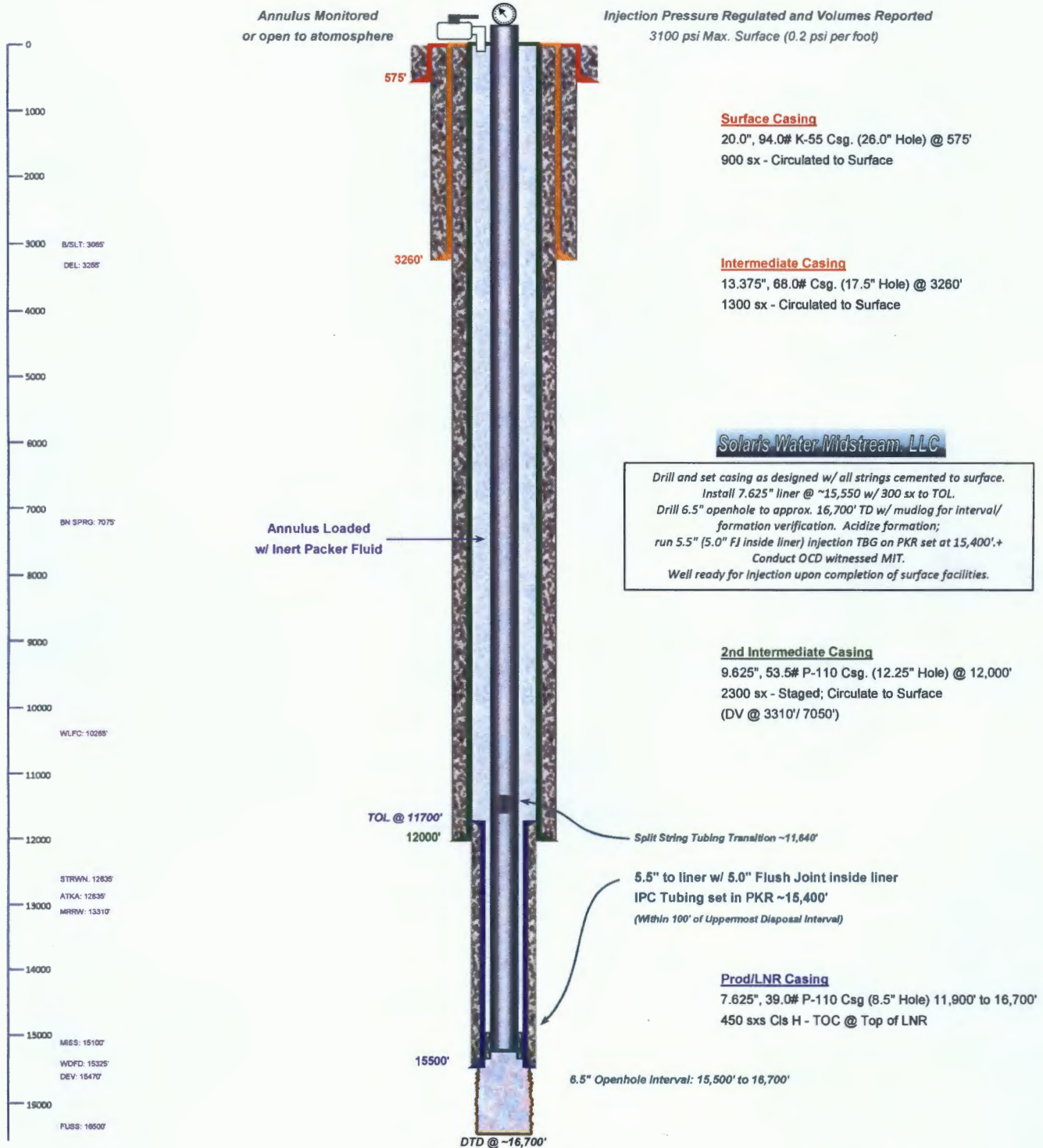


WELL SCHEMATIC - PROPOSED Corral Fly SWD Well No.1

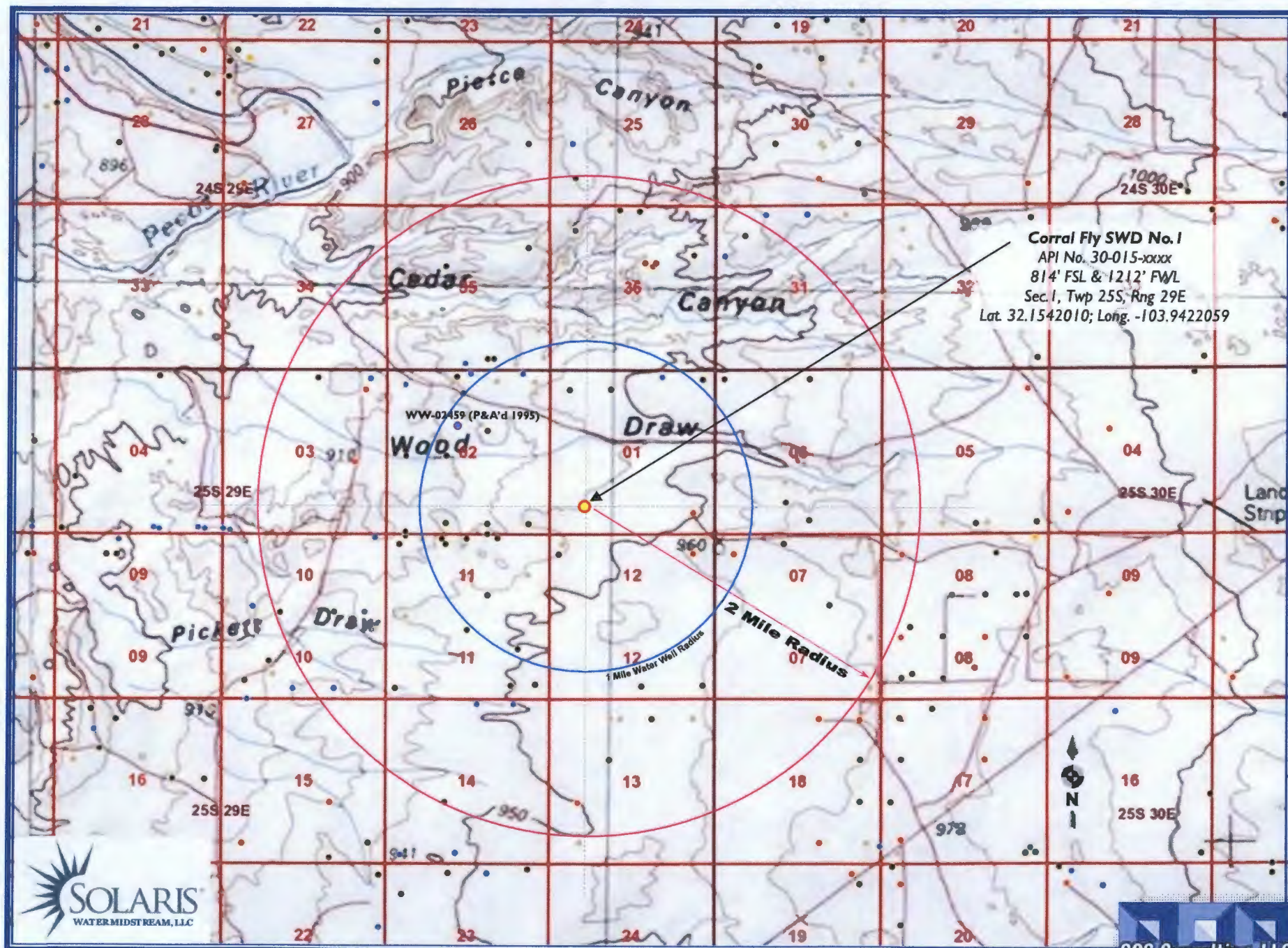
API 30-015-xxxxx
814' FSL & 1212' FWL, SEC. 1-T25S-R29E
EDDY COUNTY, NEW MEXICO

SWD; Devonian-Silurian (97869)

Spud Date: 12/15/2017
SWD Config Dt: 1/15/2018



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



Corral Fly SWD No. 1
API No. 30-015-xxxx
814' FSL & 1212' FWL
Sec. 1, Twp 25S, Rng 29E
Lat. 32.1542010; Long. -103.9422059

WW-02459 (P&A'd 1995)

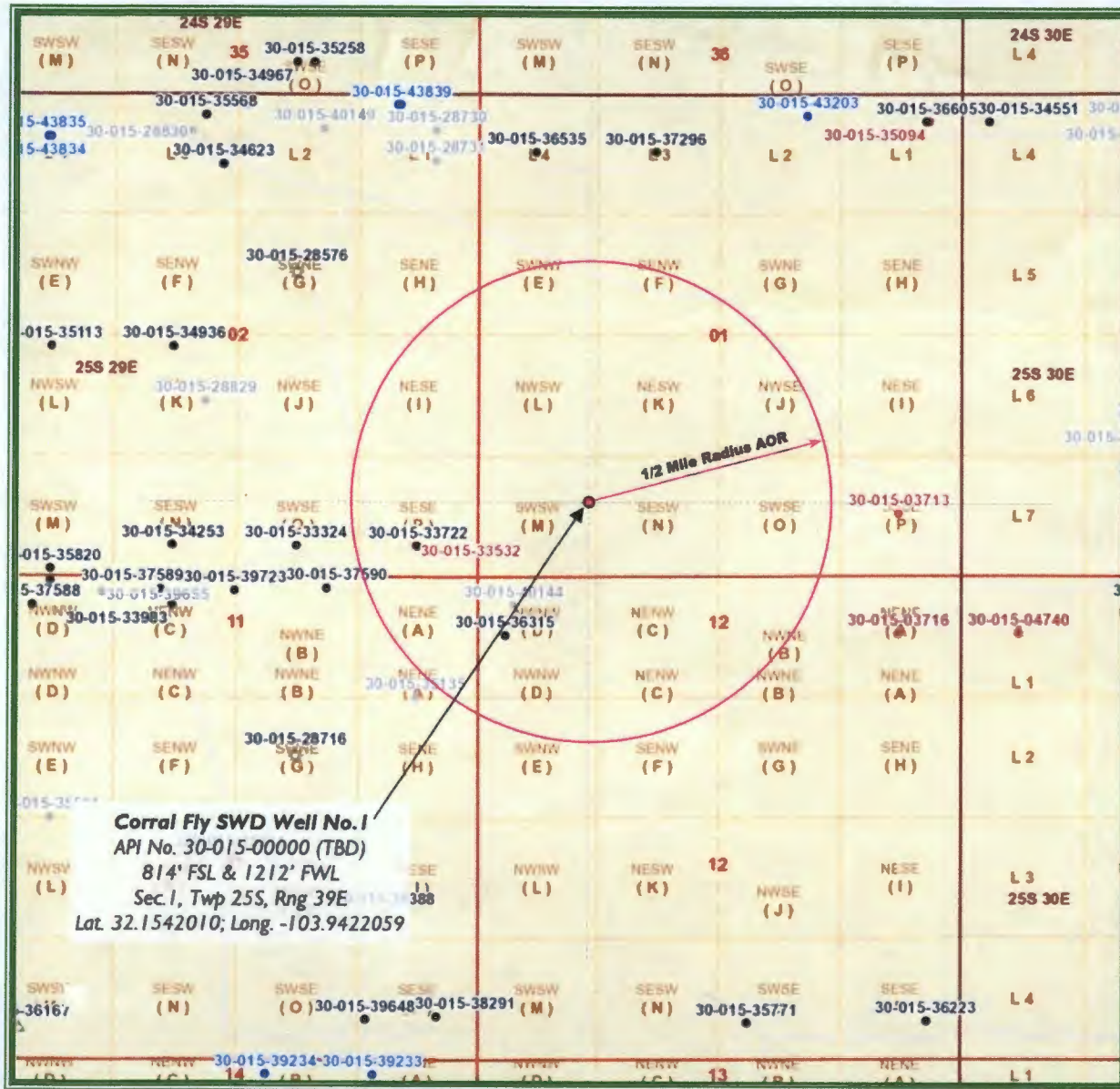
2 Mile Radius
07

12
1 Mile Water Well Radius

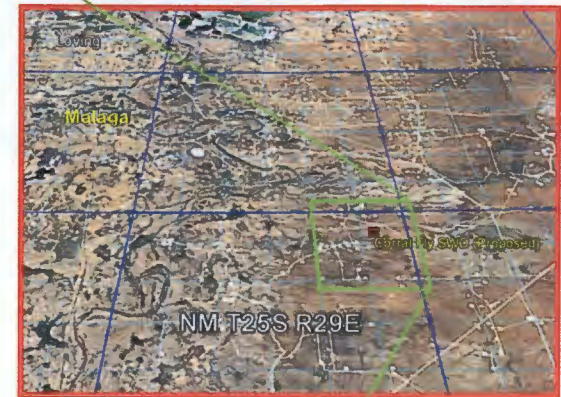
SOS Consulting, LLC

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

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



~9.0 miles Southeast of Malaga, 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

Corral Fly 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. The operator has negotiated a Surface Owner Agreement for the facility and well site.

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 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 30,000 bpd and an average of 20,000 bpd at a maximum surface injection pressure of 3095 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 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 – 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 - Corral Fly SWD Well No.1

SOURCE ZONE

DELAWARE

		Lab ID	
API No	3002508367	Sample ID	4347
Well Name	BELL LAKE UNIT	Sample No	
	007		
Location	ULSTR 01 24 S 33 E	Lat / Long	32.25143 -103.51924
	660 N 660 E	County	Lea
Operator (when sampled)			
	Field SWD	Unit	1
Sample Date		Analysis Date	
	Sample Source UNKNOWN	Depth (if known)	
	Water Type		
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 - Corral Fly SWD Well No.1

SOURCE ZONE

BONE SPRING

API No	3002502429	Lab ID	
Well Name	LEA UNIT	Sample ID	4916
	005	Sample No	
Location	ULSTR 12 20 S 34 E	Lat / Long	32.58504 -103.51106
	1980 S 1980 E	County	Lea
Operator (when sampled)			
	Field LEA	Unit	J
Sample Date		Analysis Date	
	Sample Source DST	Depth (if known)	
	Water Type		
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 - Corral Fly SWD Well No.1

SOURCE ZONE

WOLFCAMP

API No	3001520138	Lab ID	
Well Name	MAHUN STATE 001	Sample ID	5688
		Sample No	
Location	ULSTR 16 22 S 22 E 1800 N 1980 W	Lat / Long	32.39340 -104.70979
		County	Eddy
Operator (when sampled)			
	Field ROCKY ARROYO	Unit	F
Sample Date	5/17/1968	Analysis Date	
	Sample Source DST	Depth (if known)	
	Water Type		
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 - Corral Fly SWD Well No.1

SOURCE ZONE

MORROW

API No	3002520756	Lab ID	
Well Name	CUSTER MOUNTAIN UNIT 001	Sample ID	2434
		Sample No	
Location	ULSTR 09 24 S 35 E	Lat / Long	32.22999 -103.37431
	1980 S 1980 W	County	Lea
Operator (when sampled)			
	Field CINTA ROJA	Unit	K
Sample Date		Analysis Date	
	Sample Source DST	Depth (if known)	
	Water Type		
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 - Corral Fly SWD Well No.1

DISPOSAL ZONE

DEVONIAN

API No.	3002508483	Lab ID	
Well Name	BELL LAKE UNIT	Sample ID	5733
	006	Sample No	
Location	ULSTR 06 23 S 34 E	Lat / Long	32.32821 -103.50663
	660 S 1980 E	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 - Corral Fly SWD No.1

DISPOSAL ZONE

DEVONIAN

API No.	3002521082	Lab ID	
Well Name	ANTELOPE RIDGE UNIT 003	Sample ID	5720
		Sample No	
Location	ULSTR 34 23 S 34 E	Lat / Long	32.25922 -103.46068
	1980 S 1650 W	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 (including Fusselman) 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 present within the subject formations in the area. Depth control data was inferred from deep wells in the vicinity. If the base of Devonian and top of Silurian and/or Ordovician rocks come in as expected the well will only be drilled deep enough for adequate logging rathole.

At a proposed depth of 16,700' BGL (Below Ground Level) the well will TD approximately 1,250 feet 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 15,475' BGL. Injection will occur through the resulting openhole interval. If the base of Silurian and top of Ordovician rocks come in as expected the well will only be drilled deep enough for adequate logging rathole; estimated total depth approximately 16,700'.

The Devonian is overlain by the Woodford Shale and Mississippian Lime. The lower Silurian (Fusselman) rock is underlain by the Ordovician; Simpson, McKee and Ellenburger.

Fresh water in the area is generally available from valley and basin fill of the Carlsbad-Pecos segment of the lower Pecos Valley complex of Quaternary alluvial sand and gravel deposits. State Engineer's records show water wells in the area with a depth to groundwater of 30 to 60 feet with an average depth to groundwater of 42 feet.

There is 1 (one) water well located within one mile of the proposed SWD. That well has been plugged and abandoned.

C-108 ITEM XI – WATER WELLS IN AOR



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

										(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)									
(acre ft per annum)																			
Sub										q q q									
WR File Nbr	basin	Use	Diversion	Owner	County	POD Number			Code Grant	Source	4	4	1	02	25S	29E	X	Y	
C 02459	C	PRO	0	SANTA FE ENERGY RESOURCES INC.	ED	C 02459					4	4	1	02	25S	29E	598422	3558663*	

(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 Township: 25S Range: 29E

Sorted by: File Number

Note: a foot search on 10/17/17 and subsequent file search found that this well was drilled and plugged in 1995. There are no active water wells in the one-mile radius.

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

closed) (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
C 01337	C	ED		2	1	30	25S	29E		591926	3552642*	180	30	150
C 01880	C	ED		3	3	2	06	25S	29E	592161	3558605*	85	40	45
C 02371	C	ED		2	3	15	25S	29E		596741	3555106*	200	60	140
C 02459	C	ED		4	4	1	02	25S	29E	598422	3558663*	150		
C 02518	C	ED		3	4	08	25S	29E		593895	3556300*	462		
C 02680	C	ED		2	3	15	25S	29E		596741	3555106*	200		
RA 07162 EXP2		ED		1	3	1	10	25S	29E	596214	3557222*	55	40	15

Average Depth to Water: **42 feet**

Minimum Depth: **30 feet**

Maximum Depth: **60 feet**

Record Count: 7

PLSS Search:

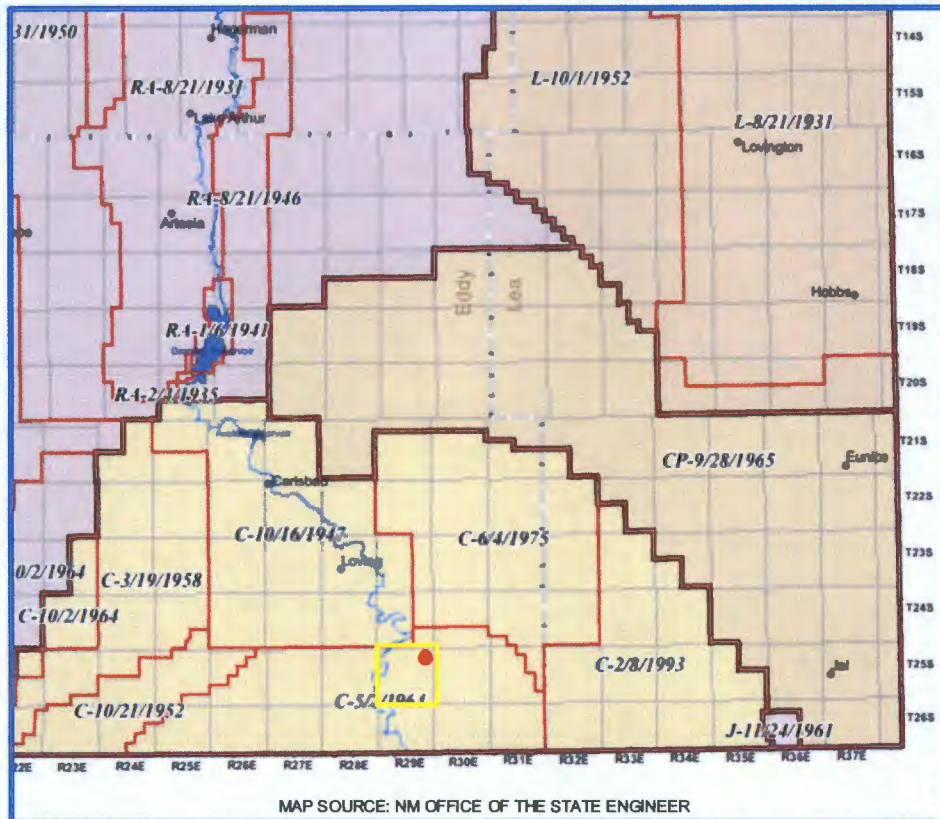
Township: 25S Range: 29E

*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 XI

Groundwater Basins - Water Column / Depth to Groundwater



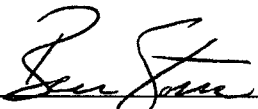
The subject well is located within the Carlsbad Basin.

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 is 1 (one) water well located within one mile of the proposed SWD. That well was been plugged and abandoned in 1995.

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
 Corral Fly SWD No.1
 Reviewed 10/13/2017

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Leasehold Plat

List of Interested Parties

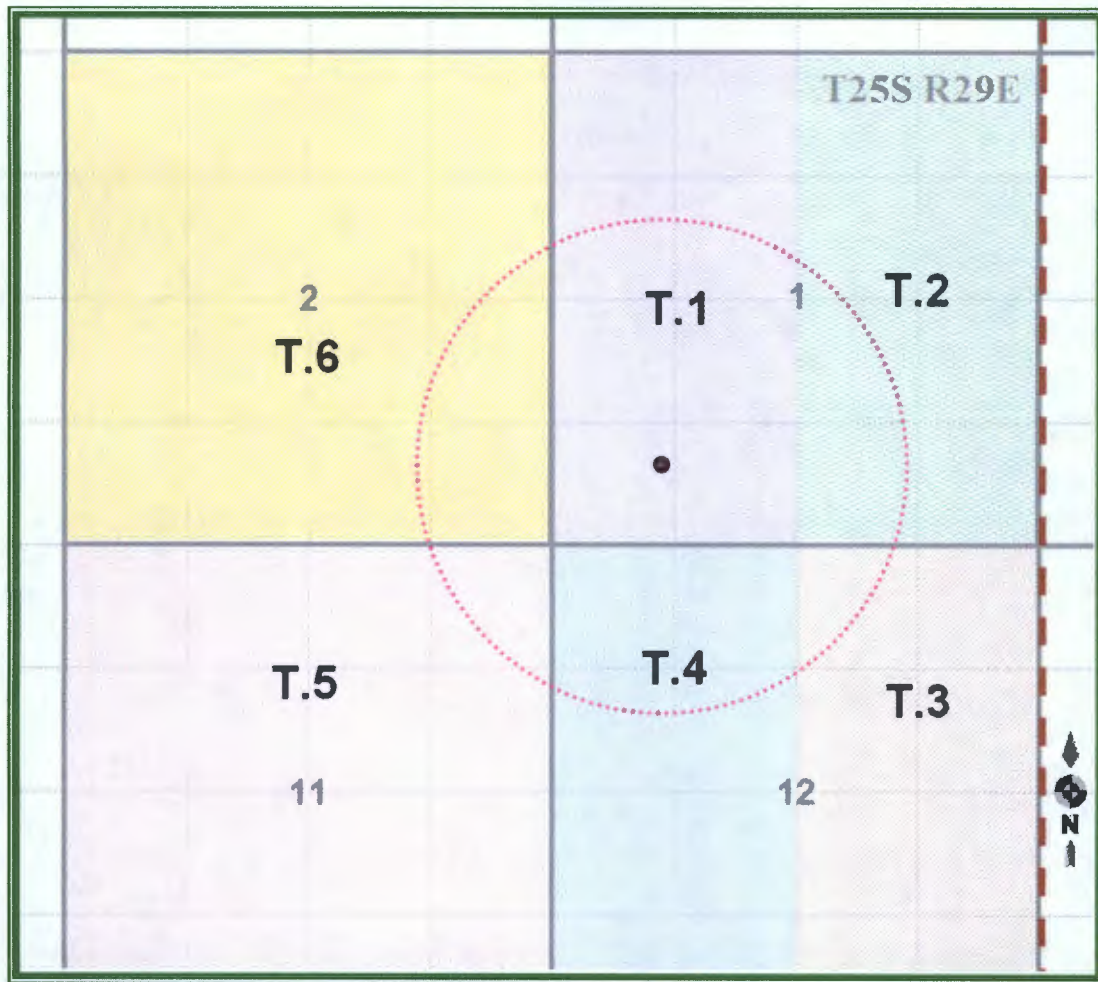
Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

Corral Fly SWD Well No.1 - Leasehold Plat

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



LEGEND

- T.1 – VA-2947 – EOG 'Y' Resources, Inc.
- T.2 – VA-2975 – Mewbourne Oil Co.
- T.3 – VB-1105 – Chevron USA, Inc.
- T.4 – VA-3957 – EOG 'Y' Resources,
- T.5 – VO-3633 – EOG Resources, Inc.
- T.6 – VO-3361 - Oxy USA WTP Limited Partnership

(All State of NM Leases.)

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

SURFACE OWNER

- 1 STATE OF NEW MEXICO (FedEx'd copy)
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504

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

State Lease VA-2947 (T.1 on Leasehold Plat)

Lessee

- 2 EOG 'Y' RESOURCES, INC.
105 S. 4th Street
Artesia, NM 88210
Certified: 7015 0640 0007 9482 9620

Operator

- 3 COG PRODUCTION, LLC
2208 W. Main Street
Artesia, New Mexico 88210-3720
Certified: 7015 0640 0007 9482 9590

State Lease VA-2975 (T.2 on Leasehold Plat)

Lessee

- 4 MEWBOURNE OIL COMPANY
P.O. Box 2070
Hobbs, NM 88240
Certified: 7015 0640 0007 9482 9606

Operators

- EOG 'Y' RESOURCES, INC.
105 S. 4th Street
Artesia, NM 88210

- 5 OXY USA, INC.
6001 Deauville Blvd.
Midland, TX 79706
Certified: 7015 0640 0007 9482 9637

State Lease VB-1105 (T.3 on Leasehold Plat)

Lessee & Operator

- 6 CHEVRON USA, INC.
Attn: Linda McMurray, Permitting Team
6301 Deauville Blvd.
Midland, TX 79706
Certified: 7015 0640 0007 9482 9675

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

State Lease VA-3957 (T.4 on Leasehold Plat)

Lessee

EOG 'Y' RESOURCES, INC.
105 S. 4th Street
Artesia, NM 88210

Operator

- 7 XTO ENERGY, INC.
P.O. Box 6501
Englewood, CO 80155
Certified: 7015 0640 0007 9482 9613

State Lease VO-3633 (T.5 on Leasehold Plat)

Lessee

- 8 EOG RESOURCES, INC.
5509 Champions Drive
Midland, TX 79706
Certified: 7015 0640 0007 9482 9682

Operators

XTO ENERGY, INC.
P.O. Box 6501
Englewood, CO 80155

- 9 OXY USA WTP, LIMITED PARTNERSHIP
6001 Deauville Blvd.
Midland, TX 79706
Certified: 7015 0640 0007 9482 9644

State Lease VO-3361 (T.6 on Leasehold Plat)

Lessee & Operator

OXY USA WTP, LIMITED PARTNERSHIP
6001 Deauville Blvd.
Midland, TX 79706

Operators

- 10 VANGUARD OPERATING, LLC
105 S. 4th Street
Artesia, NM 88210
Certified: 7015 0640 0007 9482 9651

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)
811 S. First St.
Artesia, NM 88210

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

7015 0640 0007 9482 9668
7015 0640 0007 9482 9590
7015 0640 0007 9482 9637

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$ 6.59

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Street an
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PS Form

STATE OF NEW MEXICO
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$ 6.59

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COG PRODUCTION, LLC
2208 W. Main Street
Artesia, New Mexico 88210-3720

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$ 6.59

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6001 Deauville Blvd.
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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$ 6.59

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EOG 'Y' RESOURCES, INC.
105 S. 4th Street
Artesia, NM 88210

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<input type="checkbox"/> Return Receipt (electronic)	\$
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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$ 6.59

Sent To
Street an
City, Stat
PS Form

XTO ENERGY, INC.
P.O. Box 6501
Englewood, CO 80155

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts - cont.)

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage
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Total Postage and Fees **6.59**

Sent To
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CHEVRON USA, INC.
 Attn: Linda McMurray, Permitting Team
 6301 Deauville Blvd.
 Midland, TX 79706

PS Form 3842, October 2009

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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage
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Total Postage and Fees **6.59**

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EOG RESOURCES, INC.
 5509 Champions Drive
 Midland, TX 79706

PS Form 3842, October 2009

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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage
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Total Postage and Fees **6.59**

Sent To
 Street and City, State

VANGUARD OPERATING, LLC
 105 S. 4th Street
 Artesia, NM 88210

PS Form 3842, October 2009

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage
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Total Postage and Fees **6.59**

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MEWBOURNE OIL COMPANY
 P.O. Box 2070
 Hobbs, NM 88240

PS Form 3842, October 2009

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<input type="checkbox"/> Return Receipt (electronic)	\$
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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage
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Total Postage and Fees **6.59**

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OXY USA WTP, LP
 6001 Deauville Blvd.
 Midland, TX 79706

PS Form 3842, October 2009

C-108 - Item XIV

Proof of Notice – Legal Notice Newspaper of General Circulation

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 Corral Fly SWD No.1, is located 814' FSL and 1212' FWL, Section 1, Township 25 South, Range 29 East, Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Devonian, Silurian and Fusselman formations at a depth of 15,475' to 16,700' at a maximum surface pressure of 3095 psi and a rate limited only by such pressure. The proposed SWD well is located approximately 9.0 miles southeast of Malaga, 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.

Published in the Artesia Daily Press, Artesia, N.M., Oct. 27, 2017
Legal No.

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.

PROOF OF NOTICE - NEW MEXICO STATE LAND OFFICE - OIL AND GAS DIVISION

ORIGIN: D:TYRA (903) 488-9850		SHIP DATE: 26OCT17	
BENJAMIN STONE		ACT WT: 0.50 LB	
SOS CONSULTING, LLC		CAD: 10012080/NET3920	
1950 CR 2331			
COMO, TX 75431		BILL SENDER	
UNITED STATES US			
<hr/>			
TO TERRY WARNELL			
NM STATE LAND OFFICE - OIL & GAS			
310 OLD SANTA FE TRL			
<hr/>			
SANTA FE NM 87501			
(505) 827-5791		REF: SOLARIS CORRAL FLY SWD	
INV:		DEPT:	
PO:			
<hr/>			
			
		4172117091381un	
TRK# 7705 9782 2660		MON - 30 OCT 10:30A	
0201		MORNING 2DAY	
SX SAFA		87501	
		NM-US ABQ	
			

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McMillan, Michael, EMNRD

From: ben@sosconsulting.us
Sent: Thursday, November 2, 2017 12:34 PM
To: McMillan, Michael, EMNRD
Subject: Affidavit - Solaris Corral Fly C-108...
Attachments: Affidavit_CorralFly_20171102001.pdf

Mike,

Affidavit attached. Hard copy via U.S. mail.

Thanks,
Ben



Visit us on the web at www.sosconsulting.us!

This electronic message and all attachments are confidential, and are intended only for the use of the individual to whom it is addressed; information may also be legally privileged. This transmission is sent in trust for the sole purpose of delivery to the intended recipient. If you have received this transmission in error, you are hereby notified that any use, dissemination, distribution or reproduction of this transmission is strictly prohibited and may be unlawful. If you are not the intended recipient, you must delete this message and any copy of it (in any form) without disclosing it. If this message has been sent to you in error, please notify the sender by replying to this transmission, or by calling SOS Consulting, LLC. 903-488-9850. Unless expressly stated in this e-mail, nothing in this message should be construed as a digital or electronic signature. Thank you for your cooperation.

Affidavit of Publication

No. 24469

State of New Mexico

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

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 October 27, 2017

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

30th day of October 2017



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires:

5/12/2019

Latisha Romine

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., Oct. 27, 2017 Legal No. 24469.

Affidavit of Publication

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1 Consecutive weeks/day on the same

day as follows:

First Publication October 27, 2017

Second Publication _____

Third Publication _____

Fourth Publication _____

Fifth Publication _____

Sixth Publication _____

Seventh Publication _____

Subscribed and sworn before me this

30th day of October 2017



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019

Latisha Romine

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., Oct. 27, 2017 Legal No. 24469.



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

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

Well No. 1 Well Name(s): CORR-1 Dnew FLY State SWD

API: 30-0 15-44457 Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 814 FSL 1212 FSL Lot _____ or Unit M Sec 1 Tsp 255 Rge 248 County Eddy

General Location: 2 1/2 miles SSW of Alaga Pool: _____ Pool No.: _____

BLM 100K Map: JAI Operator: Solent's Water Midstream, LLC OGRID: 371613 Contact: Ben Stone, Agent

COMPLIANCE RULE 5.9: Total Wells: 5 Inactive: 0 Fincl Assur: OK Compl. Order? NA IS 5.9 OK? X Date: 11-21-2007

WELL FILE REVIEWED X Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed X or RE-ENTER: Before Conv. 0 After Conv. 0 Logs in Imaging: _____

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>24"/20"</u>	<u>575</u>	<u>900</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod	<u>17 1/2"/13 3/8"</u>	<u>3260</u>	<u>1300</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4"/9 5/8"</u>	<u>12000</u>	<u>2300</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Prod/Liner	<u>8 1/2"/7 1/8"</u>	<u>15500</u>	<u>450</u>	<u>ITB / C-B-L</u>
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ <u>OH</u> / PERF	<u>4 1/2"</u> <u>15500/16200</u>			

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops	Inj Length	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		<u>MS</u>	<u>15100</u>	<u>1200'</u>	Drilled TD <u>16700</u> PBTD _____
Confining Unit: Litho. Struc. Por.		<u>WD</u>	<u>15400</u>		NEW TD _____ NEW PBTD _____
Proposed Inj Interval TOP:		<u>OV</u>	<u>15470</u>		NEW Open Hole <u>X</u> or NEW Perfs <u>0</u>
Proposed Inj Interval BOTTOM:					Tubing Size <u>4"</u> Inter Coated? <u>5"</u>
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth <u>15400</u> ft
Adjacent Unit: Litho. Struc. Por.					Min. Packer Depth <u>15375</u> (100-ft limit)
					Proposed Max. Surface Press. <u>3095</u> psi
					Admin. Inj. Press. <u>3095</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NA Noticed? _____ BLM Sec Ord 0 WIPP 0 Noticed? _____ Salt/Salado T: _____ B: 3065 NW: Cliff House fm _____

FRESH WATER: Aquifer intermittent Max Depth 55' HYDRO AFFIRM STATEMENT By Qualified Person X

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

Disposal Fluid: Formation Source(s) Wolfcamp Analysis? Y On Lease 0 Operator Only 0 or Commercial X

Disposal Int: Inject Rate (Avg/Max BWPD): 20K/30K Protectable Waters? _____ Source: _____ System Closed or Open

HC Potential: Producing Interval? NA Formerly Producing? _____ Method: Logs/DST/P&A/Other NA 2-Mile Radius Pool Map 0

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

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

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

NOTICE: Newspaper Date October 23, 2007 Mineral Owner NMSU Surface Owner NMSU N. Date October 23, 2007

RULE 26.7(A): Identified Tracts? Y Affected Persons: EOG, EOG-Y, OXY N. Date October 23, 2007

Order Conditions: Issues: _____

Add Order Cond: _____