pLEL 9127524 63

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996
Artesia ▲ Carlsbad ▲ Durango ▲ Midland

May 10, 2019

Mr. Phillip Goetze, P.G.
New Mecico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Solaris Water Midstream Caltrops State SWD #1
UL M Section 16 T25S R32E, Lea County

Dear Mr. Goetze:

On behalf of Solaris Water Midstream LLC, please find the attached in response to a May 10, 201e-mail from Mr. Lowe of your staff. Attached are the data requested by OCD that should create an administratively complete application.

1. Identification of the Surface Owner of the SWD location

The corrected C-108 and the text attachment, identifies the surface owner in Items A.1 and V. The surface owner of the SWD location is the State of New Mexico.

2. Proof of publication

Attached is the proof of publication in the Hobbs News-Sun on May 5, 2019. Proof of mailing to offset operators, lease holders and surface owners within the radius of review is also attached.

List of affected parties

The list of affected parties was included in the original submission as Table 1 and 2, which we find relatively difficult to read and interpret. Attached is an improved version of these two tables that more clearly identifies the parties.

Sincerely,
R.T. Hicks Consultants

Randall T. Hicks
Principal

Copy: Solaris Water Midstream LLC

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996
Artesia ▲ Carlsbad ▲ Durango ▲ Midland

April 26, 2019

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 Caltrops SWD 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 16, Township 25 South, Range 32 East in Lea County, New Mexico.

The published notice states that the interval will be from 17,057 feet to 18,482 feet into the Devonian and Fusselman Formations.

Following is the notice published in the Hobbs News Sun, Hobbs, New Mexico on or about April 30, 2019.

LEGAL NOTICE
Solaris Water Midstream, LLC, 907 Tradewinds Blvd., Suite B, Midland, TX 79706 filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Caltrops SWD No. 1 will be located 550 feet from the South line and 120 feet from the West line, Section 16, Township 25 South, Range 32 East, Lea County, New Mexico. Produced water from area production will be commercially disposed into the Devonian, Silurian and Fusselman formations at a depth of 17,057 feet to 18,482 feet at a maximum surface pressure of 4,081 psi and an average injection rate of 30,000 barrels per day. The proposed SWD well is located approximately 24 miles southeast of Loving, New Mexico.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, NM 87505 (505) 476-3460 within 15 days of the date of this notice.

You have been identified as a party who may be interested as an offset lessee or operator.

Thank you for your attention in this matter.

Sincerely,
R.T. Hicks Consultants

Randall Hicks
Principal

List of Interested Parties

Operator of Wells

OGRID	OGRID Name
4323	CHEVRON U S A INC
6137	DEVON ENERGY PRODUCTION COMPANY, LP
17891	POGO PRODUCING CO
20077	SAHARA OPERATING CO
22351	TEXACO EXPLORATION & PRODUCTION INC
151323	PRIDE ENERGY COMPANY
215099	CIMAREX ENERGY CO.
217955	COG PRODUCTION, LLC
240974	LEGACY RESERVES OPERATING, LP
256999	POGO PRODUCING COMPANY LLC

BLM Leaseholders

Serial Number	Name 1
NMLC 0062300	3-M ENERGY CO
NMLC 0061873B	CHEVRON USA INC
NMLC 0061863A	CHEVRON USA INC
NMLC 0061873	CHEVRON USA INC
NMLC 0061873A	CHEVRON USA INC
NMLC 0061936A	CHEVRON USA INC
NMLC 0061936	CHEVRON USA INC
NMNM 0054031	CHEVRON USA INC
NMNM 0359295A	DEVON ENERGY OPER CO LP
NMLC 0061869	DEVON ENERGY PROD CO LP
NMNM 123518	EOG Y RESOURCES INC
NMNM 015912	MOBIL PROD TX & NM
NMNM 115422	OGX RESOURCES INC
NMNM 115421	OXY USA INC
NMNM 110836	OXY Y-1 COMPANY
NMNM 108971	OXY Y-1 COMPANY
NMNM 112935	OXY Y-1 COMPANY

State of NM Leaseholders

OGRID	OGRID Name
217817	CONOCOPHILLIPS COMPANY
317612	PADUCA PARTNERS LLC
151323	PRIDE ENERGY COMPANY

List of Interested Parties

Name 2	Name 3
CHEVRON USA INC	DEVON ENERGY
DEVON ENERGY PROD CO LP	LEGACY RESERVES OPERATINC
DEVON ENERGY PROD CO LP	
DEVON ENERGY PROD CO LP	
DEVON ENERGY PROD CO LP	
DEVON ENERGY PROD CO LP	
DEVON ENERGY	
DEVON ENERGY PROD CO LP	
EOG A RESOURCES INC	EOG M RESOURCES INC
EOG A RESOURCES INC	EOG M RESOURCES INC
EOG A RESOURCES INC	EOG M RESOURCES INC
EOG A RESOURCES INC	EOG M RESOURCES INC

Unique Key
E050090001
E097890012
V065450000

List of Interested Parties

[redacted]
Name 4
PROVIDENCE MINERALS LLC

OXY Y-1 COMPANY

[redacted]

CALTROPS SWD #1

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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MIDLAND, TX 79702

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☐ Return Receipt (electronic)	$0.00
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☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 05010 02 — Postmark Here APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: SAHARA OPERATING
Street and Apt. No., or PO Box No.: P.O. Box 4130
City, State, ZIP+4®: MIDLAND, TX 79704

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

7018 1130 0000 6256 9786

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☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: COG PRODUCTION, LLC
Street and Apt. No., or PO Box No.: P.O. Box 2064
City, State, ZIP+4®: MIDLAND, TX 79702

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

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☐ Certified Mail Restricted Delivery	$0.00
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☐ Adult Signature Restricted Delivery	$
Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: CIMAREX ENERGY Co. OF COLORADO
Street and Apt. No., or PO Box No.: 600 N. MARIENFELD, SUITE 600
City, State, ZIP+4®: MIDLAND, TX 79701

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

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☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: MESQUITE SWD, INC.
Street and Apt. No., or PO Box No.: P.O. Box 1479
City, State, ZIP+4®: CARLSBAD, NM 88221

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SAN ANGELO, TX 76903

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☐ Certified Mail Restricted Delivery	$0.00
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Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: 3-M ENERGY Co.
Street and Apt. No., or PO Box No.: 502 S. KOENIGHEIM ST. #2B
City, State, ZIP+4®: SAN ANGELO, TX 76903

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

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☐ Certified Mail Restricted Delivery	$0.00
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Postage	$0.55
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City, State, ZIP+4®: MIDLAND, TX 79702

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CALTROPS SWD #1

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Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here — APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

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Street and Apt. No., or PO Box No.: 6301 DEAUVILLE BLVD.
City, State, ZIP+4®: MIDLAND, TX 79706

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

7018 1130 0001 8741 5302

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SANTA FE NM 87501

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here — APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: NM STATE LAND OFFICE
Street and Apt. No., or PO Box No.: OGMD, 310 OLD SANTA FE TRAIL
City, State, ZIP+4®: SANTA FE, NM 87504

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

7018 1130 0001 8741 5319

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CARLSBAD, NM 88220

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Postage	$0.55
Total Postage and Fees	$6.85

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Sent To: BUREAU OF LAND MGMT. O&G DIV.
Street and Apt. No., or PO Box No.: 620 E. GREENE ST.
City, State, ZIP+4®: CARLSBAD, NM 88220

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Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here — APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: POGO PRODUCING CO., LLC
Street and Apt. No., or PO Box No.: 1515 CALLE SUR, SUITE 174
City, State, ZIP+4®: HOBBS, NM 88240

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

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Sent To: LEGACY RESERVES OPERATING, L.P.
Street and Apt. No., or PO Box No.: 303 W. WALL ST. SUITE 1600
City, State, ZIP+4®: MIDLAND, TX 79701

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TULSA, OK 74170

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Postage	$0.55
Total Postage and Fees	$6.85

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Sent To: PRIDE ENERGY CO.
Street and Apt. No., or PO Box No.: P.O. BOX 701950
City, State, ZIP+4®: TULSA, OK 74170-1950

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SOLARIS

: CALTROPS SWD #1

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☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
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Postage	$0.55
Total Postage and Fees	$6.85

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Sent To: HL BROWN OPERATING, LLC
Street and Apt. No., or PO Box No.: P.O. BOX 2237
City, State, ZIP+4®: MIDLAND, TX 79702

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HOUSTON TX 77210

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☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.55
Total Postage and Fees	$6.85

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Sent To: OXY USA, INC.
Street and Apt. No., or PO Box No.: P.O. Box 4294
City, State, ZIP+4®: HOUSTON, TX 77210-4294

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

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HOUSTON TX 77210

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: MOBIL PRODUCTION CO. LLC
Street and Apt. No., or PO Box No.: P.O. Box 4358
City, State, ZIP+4®: HOUSTON, TX 77210-4358

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

7018 1130 0001 8741 5395

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HOUSTON TX 77252

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: CONOCOPHILLIPS COMPANY
Street and Apt. No., or PO Box No.: P.O. Box 2197, OFFICE EC3-10-W285
City, State, ZIP+4®: HOUSTON, TX 77252

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

7018 1130 0001 8741 5401

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ENGLEWOOD, CO 80111

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: PADUCA PARTNERS, LLC
Street and Apt. No., or PO Box No.: 6400 S. FIDDLERS GREEN CIRCLE #2100
City, State, ZIP+4®: GREENWOOD VILLAGE, CO 80111-4938

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

7018 1130 0000 6256 9793

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OKLAHOMA CITY OK 73102

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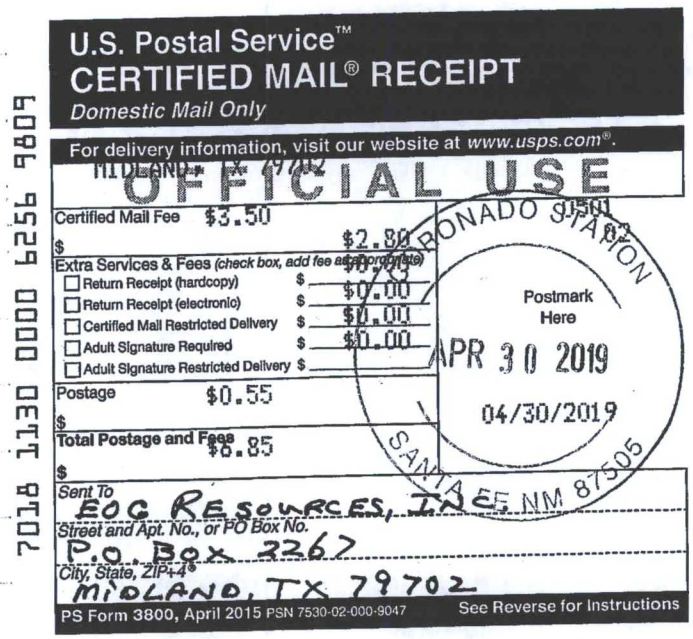
☐ Return Receipt (hardcopy)	$2.80 / $0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.55
Total Postage and Fees	$6.85

CORONADO STATION 0501 02 — Postmark Here APR 30 2019 — 04/30/2019 — SANTA FE NM 87505

Sent To: DEVON ENERGY PROD. CO. L.P.
Street and Apt. No., or PO Box No.: 333 W. SHERIDAN
City, State, ZIP+4®: OKLAHOMA CITY, OK 73102

PS Form 3800, April 2015 PSN 7530-02-000-9047 — See Reverse for Instructions

SOLARIS
CALTROPS SWD #1



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MIDLAND TX 79702

OFFICIAL USE

Certified Mail Fee $3.50

$

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 $0.55

$

Total Postage and Fees $8.85

$

Sent To
EOG RESOURCES, INC.

Street and Apt. No., or PO Box No.
P.O. Box 2267

City, State, ZIP+4®
MIDLAND, TX 79702

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

$2.80
$0.00
$0.00
$0.00

CORONADO STATION
Postmark Here
APR 30 2019
04/30/2019
SANTA FE, NM 87505

7018 1130 0000 6256 9809

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance ___X____Disposal _____Storage
Application qualifies for administrative approval? _____Yes _____No

II. OPERATOR: _Solaris Water Midstream, LLC_____

ADDRESS: __907 Tradewinds Blvd, Suite B, Midland, TX 79706_____

CONTACT PARTY: __Randall Hicks (Agent)_____PHONE: __505 238 9515_____

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____Yes ____X____No
If yes, give the Division order number authorizing the project: _____

V. Attach a map 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. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data 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. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

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: _ _Randall Hicks TITLE: _Agent_____

SIGNATURE: ___  _____DATE: __4/23/2019_____

E-MAIL ADDRESS: ____R@rthicksconsult.com_____

* 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

III. WELL DATA

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

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.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLC

WELL NAME & NUMBER: Caltrops State SWD #1

WELL LOCATION: 550 FSL 120 FWL | M | 16 | 25S | 32E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: See Attachments Casing Size: _____

Cemented with: _____ sx. ***or*** _____ ft^3

Top of Cement: _____ Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. ***or*** _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. ***or*** _____ ft^3

Top of Cement: _____ Method Determined: _____

Total Depth: _____

Injection Interval

_____ feet to _____

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: ___See Attachments_____Lining Material: _____

Type of Packer: _____

Packer Setting Depth: _____

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ___X___Yes _____No

   If no, for what purpose was the well originally drilled? _____

   _____

2. Name of the Injection Formation: __Proposed: SWD, Devonian-Silurian_____

3. Name of Field or Pool (if applicable): _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____No_____

   _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _See Attachments_____

   _____

   _____

   _____

III. WELL DATA

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

Lease Name:	Caltrops State SWD #1
Well Name:	Caltrops SWD No. 1
Location:	550' from the South line and 120' from the West line, Section 16, Township 25 South, Range 32 East, Lea County, New Mexico
Surface Owner	State of New Mexico

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

The attached Wellbore Data Sheet provides all of the design specifics required and a tabulation of these data are shown on the diagram.

The formation tops were established by Jim Brannigan, R.G. CPG. Deeper tops picked using the Texaco Cotton Draw #64 e-log in Section 18-T25S-R32E (TD-16,218') and the Superior Oil Co. Paduca Fed. #1 e-log in Section 22-T25S-R32E (TD- 15,850'). The intervals from the Barnett to the Montoya were estimated using the intervals reported on the C-105 on the Mesquite SWD, Inc. #1Y Paduca 6 SWD in Section 6-T26S-R32E (TD- 18,881'. The result of the evaluation of Mr. Brannigan is presented to the right.

Formation	GL	3399
Tops	KB	3429
	SS	TVD
Rustler	2722	707
T/Salt	2347	1082
B/Salt	-878	4307
T/Lamar	-1103	4532
Bell Canyon	-1131	4560
Cherry Canyon	-2128	5557
Brushy Canyon	-3753	7182
Bone Spring	-5103	8532
1st BS Sand	-6078	9507
2nd BS Sand	-6703	10132
3rd BS Sand	-7853	11282
Wolfcamp	-8253	11682
Penn		
Cisco		
Canyon	-10028	13457
Strawn	-10228	13657
Atoka	-10503	13932
Morrow	-11053	14482
Morrow Clastics	-11353	14782
Morrow Lower	-11978	15407
Barnett	-12478	15907
Miss LS	-12678	16107
Woodford		
Devonian	-13628	17057
Fusselman		
T/Montoya	-15253	18682
Simpson		
Ellenburger		
Injection Interval	17057	18482
TD	18482	

3. A description of the tubing to be used including its size, lining material, and setting depth

5-1/2" (20#) internal plastic coated tubing swaged down to 5" (18#) with setting depth of 17,007'

4. The name, model, and setting depth of the packer used or a description of any other seal system or assembly used

Halliburton BWS or equivalent packer set at 17,007'.

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

The proposed injection intervals include both the Devonian and Fusselman in an open-hole interval.

(2) The injection interval and whether it is perforated or open-hole.

The depth interval of the open-hole injection interval is 17,057-18,482 (1,425 feet).

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

The well will be drilled for disposal.

(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

There are no perforated intervals, only the open-hole completion described above.

(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.

Overlying Oil and Gas Zones:

Delaware (4,553')
Bone Spring (9,500')
Wolfcamp (11,675')
Canyon (13,450')
Strawn (13,650')
Atoka (13,925')
Morrow (14,775')

Underlying Oil and Gas Zone:

No underlying oil and gas zones exist.

The proposed injection intervals include both the Devonian and Fusselman in an open hole interval. The highly cemented carbonate nature of the Devonian and Fusselman indicate that a favorable open hole integrity will exist, allowing for the saltwater to be injected without concern of collapse in the open hole injection interval.

IV. Is this an expansion of an existing project

No.

V. Attach a map 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

Plate 1 identifies all OCD listed wells and API numbers. Note that where numerous wells are closely-spaced, the API number may not be labeled for clarity. Table 1 lists all of these wells within the 2-mile area of review.

Plate 2 shows all of the leases and the leaseholder name within the 2-mile area of review. Tabular listing of all mapped leases are presented in

Table 2a BLM leases
Table 2b State of NM leases

Please note that the surface owners within the AOR are the State of New Mexico and US Federal Government.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail

No wells exist within the area of review that penetrates the proposed injection zone.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected

Proposed Maximum Injection Rate: 40,000 bbl/day
Proposed Average Injection Rate: 30,000 bbl/day

2. Whether the system is open or closed

This is will be an open system. All Solaris SWDs may receive produced water from recycling storage facilities, such as in-ground containments or above-ground steel-walled containments, which are registered or permitted under Rule 34.

3. Proposed average and maximum injection pressure

Proposed Maximum Injection Pressure: 4,081 psi
Proposed Average Injection Rate: 2,800 psi

4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water

The attached Table 3 "Produced Water Chemistry of Nearby Wells" provides the requisite analyses. The Bone Springs and Avalon Formations are the subjects of most of

the analyses. These formations, in addition to the Wolfcamp, will provide most of the produced water to the proposed SWD. At the time of writing, we are unaware of any problems associated with disposal of produced water derived from the Bone Springs, Avalon and Wolfcamp into the Devonian injection zone.

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.).

Table 4 presents formational water quality data from the Go-Tech site for Devonian-producing wells. The closest wells represented in Table 4 are more than 30 miles to the east. The value of these data for the purpose of evaluating potential problems relating to the injections of produced water into the proposed injection interval is probably poor. As stated above, we are unaware of any problems associated with disposal of produced water derived from the Bone Springs, Avalon and Wolfcamp into the Devonian injection zone.

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth.

The proposed injection intervals include both the Devonian and Fusselman in an open-hole interval. The highly cemented carbonate nature of the Devonian and Fusselman indicate that favorable open-hole integrity will exist, allowing for the saltwater to be injected without concern of collapse in the open-hole injection interval.

As indicated in Section III.A.2, the approximate depth to the top of the Devonian and Montoya are 17,057 and 18,682 respectively. The depth interval of the injection interval is 17,057-18,482 (1,425 feet).

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.

The Rustler Formation and the Chinle Formation yield water to supply wells in southeastern Eddy County and southwestern Lea County. In the immediate area of the Caltrops SWD, there are no active water supply wells (well C-4221 is a shallow monitoring well near a frac pond). In this area of Lea County, the Chinle yields water to wells from 100-200 feet below the ground surface to a depth of about 600 feet. The upper portion of the Rustler Formation yields fresh water to wells in Eddy County and in the area of the Caltrops SWD, the depth interval of this potential source of fresh water is about 700-1000 feet.

The locations of all water supply wells listed in public databases are shown in Plate 3. As stated above, there are no active water supply wells within the area of review.

In the area of the Caltrops SWD, the depth interval of the Rustler is about 700-1000 feet, according to the BLM and OCD and, we agree with this assessment. The bottom of the Rustler Formation is characterized by evaporates (anhydrite) and is not considered an underground source of drinking water. Thus, in this area, surface casing required by OCD to prevent impairment of fresh water runs from ground surface to a depth of 1032 feet at the proposed Caltrops SWD.

IX. Describe the proposed stimulation program, if any

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)

Logs will be submitted to OCD upon completion of the well.

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken

No active water supply wells were identified within one mile of the proposed SWD. Data from various sources permit a conclusion that groundwater within the Chinle Formation is potable.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water

Randall T. Hicks, a Professional Geologist with decades of experience in hydrogeology, affirms, on behalf of Solaris Water Midstream, that

- The USGS has mapped quaternary faults in New Mexico and no such faults are mapped in the area of the proposed Caltrops State SWD 1[1]
- The Texas Bureau of Economic Geology has mapped older faults (e.g. basement and Woodford) in New Mexico and the closest mapped fault is more than 11 miles to the east[2]

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[1] https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fcf

[2] Bureau of Economic Geology (Accessed April 2019). University of Texas at Austin. Basement Faults (Ewing 1990, Tectonic Map of Texas); Precambrian Faults (Frenzel et al. 1988, Figure 6); Woodord Faults (Comer 1991, plate 1). Http://www.beg.utexas.edu/resprog/permianbasin/gis.htm

- With respect to migration of produced water from the injection zone to underground sources of drinking water via faults or other natural conduits, the following conditions were considered
    - The lowest underground source of drinking water is the middle and upper Rustler Formation.
    - More than 15,000 feet of sedimentary rock separates the bottom of the Rustler Formation and the top of the injection zone. Many of the formations that lie between the injection zone and the lowermost aquifer are permeable and contain oil, gas or water at various pressures. Any excursion of injected fluids from the Devonian disposal zone would undoubtedly enter these permeable formations prior to moving through the 2800-foot low-permeability salt zone that underlies the Rustler Formation.
    - There is no evidence that the pressure regime in the oil and gas reservoirs is sufficient to cause the upward migration of formation water through the bedded salt and into the Rustler or Chinle aquifers.
- There is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

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
May 05, 2019
and ending with the issue dated
May 05, 2019.

Publisher

Sworn and subscribed to before me this
5th day of May 2019.

Business Manager

My commission expires
January 29, 2023
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-23

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

LEGAL LEGAL

LEGAL NOTICE
MAY 5, 2019

Solaris Water Midstream, LLC, 907 Tradewinds Blvd., Suite B, Midland, TX 79706 is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Caltrops SWD No. 1 will be located 550' from the South line and 120' from the West line, Section 16, Township 25 South, Range 32 East, Lea County, New Mexico. Produced water from area production will be commercially disposed into the Devonian, Silurian and Fusselman formations at a depth of 17,057 feet to 18,482' at a maximum surface pressure of 4,081 psi and an average injection rate of 30,000 barrels per day. The proposed SWD well is located approximately 24 miles southeast of Loving, New Mexico.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, NM 87505 (505) 476-3460 within 15 days of the date of this notice.

Additional information can be obtained by contacting Mr. Randall Hicks, agent for Solaris Water Midstream, at 505-238-9515.

Sincerely,
R.T. Hicks Consultants
/S/Randall Hicks
Randall Hicks
Principal
#34111

67115764 00227949

RANDALL HICKS
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