Initial Application Part I

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
mm 6/14/2019 mm 05/24/2019		SWD	pMAM19156 58350

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Geological & 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

Applicant: Solaris Water Midstream, LLC **OGRID Number:** 371643
Well Name: Jupiter Fed SWD #1 **API:**
Pool: Proposed: SWD, Devonian-Silurian **Pool Code:** 97869

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☒ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☒ Application requires published notice
D. ☒ Notification and/or concurrent approval by SLO
E. ☒ Notification and/or concurrent approval by BLM
F. ☒ Surface owner
G. ☒ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

3) **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.

Randall Hicks (agent)
Print or Type Name

Randall Hicks
Signature

Digitally signed by Randall Hicks
DN: cn=Randall Hicks, o=RT Hicks Consultants, ou, email=r@rthicksconsult.com, c=US
Date: 2019.04.24 08:08:19 -06'00'

May 27, 2019
Date

505 238 9515
Phone Number

r@rthicksconsult.com
e-mail Address

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name

Property Code	Property Name	Well Number
	JUPITER FED SWD	#1

OGRID No.	Operator Name	Elevation
371643	SOLARIS WATER MIDSTREAM	3451'

Surface Location

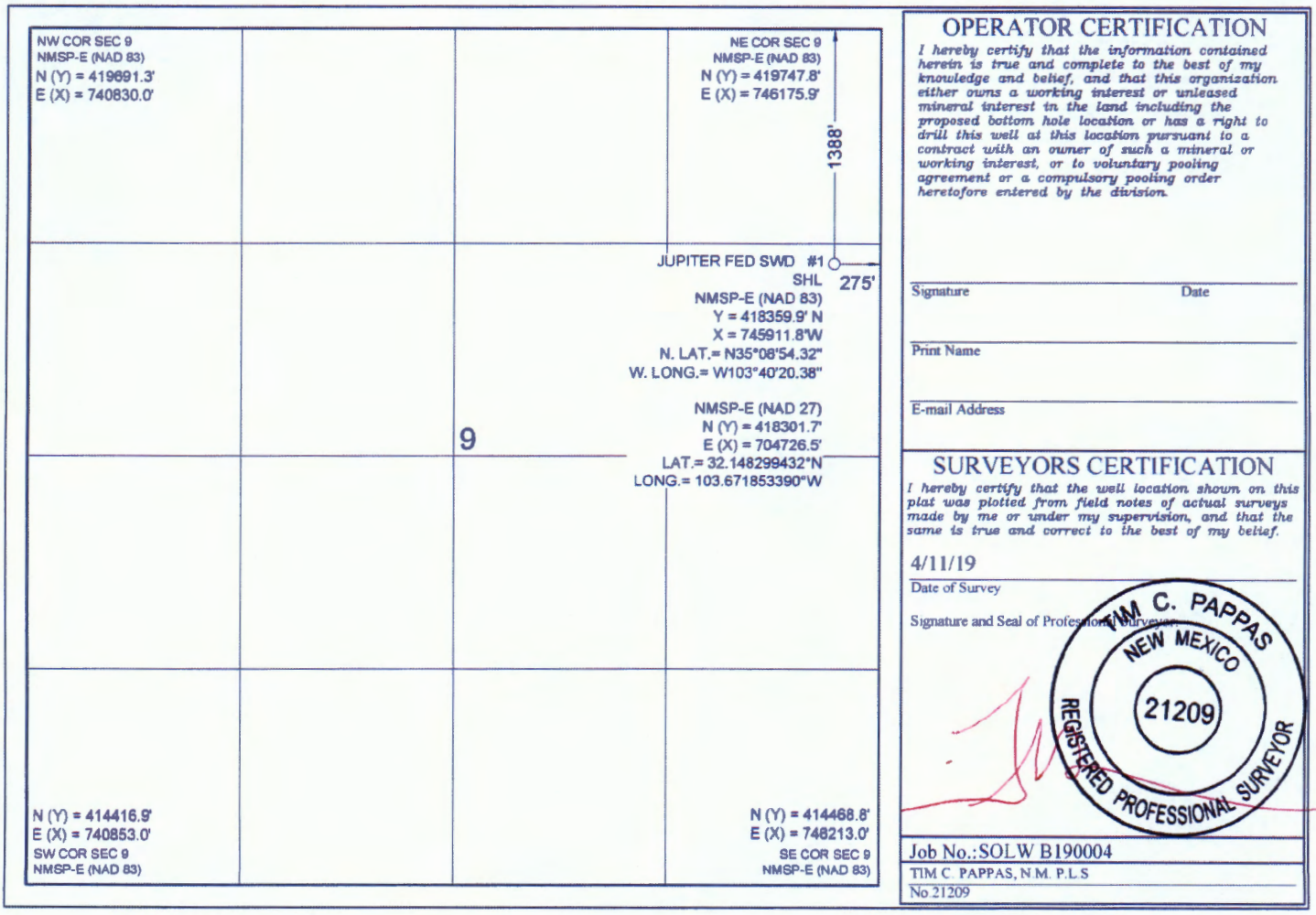
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	9	25 S	32 E		1388	NORTH	275	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidated Code	Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Print Name

E-mail Address

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

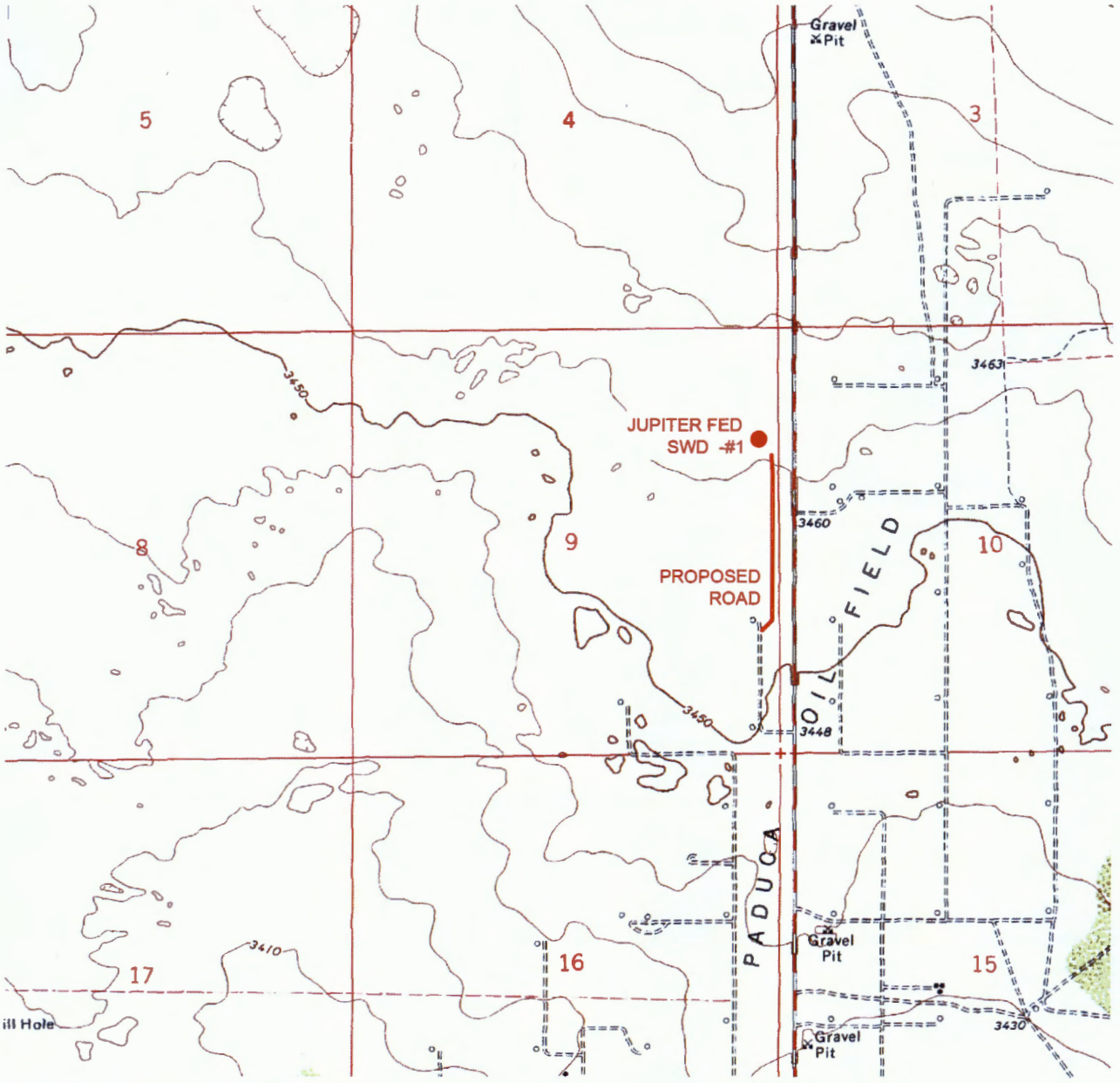
4/11/19
Date of Survey

Signature and Seal of Professional Surveyor:

TIM C. PAPPAS
NEW MEXICO
21209
REGISTERED PROFESSIONAL SURVEYOR

Job No.: SOLW B190004
TIM C. PAPPAS, N.M. P.L.S
No. 21209

LOCATION VERIFICATION MAP



GRAPHIC SCALE 1" = 2000'

SECTION 9, T 25 S, R 32 E, N.M.P.M.

COUNTY: LEA STATE: NM

DESCRIPTION: 1388' FNL & 275' FEL

OPERATOR: SOLARIS WATER MIDSTREAM

WELL NAME: JUPITER FED SWD -#1

DRIVING DIRECTIONS:
FROM THE JCT. OF STATE HWY. 128 AND LEA COUNTY ROAD "J-1" (ORLA ROAD), GO SOUTH ON J-1 FOR 5.3 MILES TO A LEASE ROAD RIGHT. THEN GO WEST ON SAID LEASE ROAD 0.1 MILES TO A "T". THEN GO NORTH ±150 TO A LEASE ROAD RIGHT. THEN GO NORTH ON SAID ROAD 0.3 MILE TO THE PROPOSED LEASE ROAD, FROM WHICH THE LOCATION BEARS N.44°E.,177.4 FEET.

ASCENT GEOMATICS SOLUTIONS

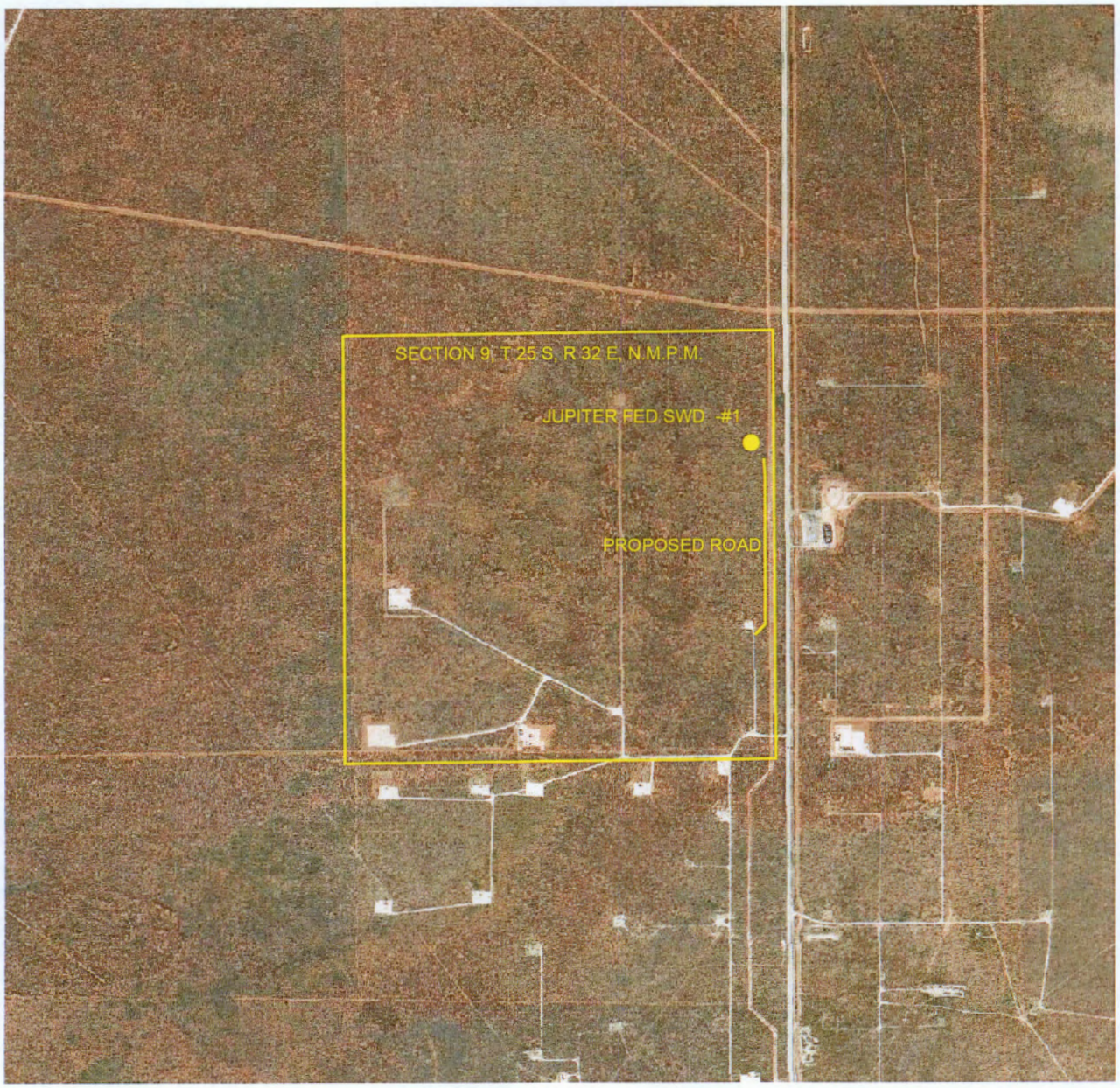
ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
4500 W. ILLINOIS STE:202
MIDLAND, TEXAS 79705
(432) 756-5680
TEXAS FIRM REGISTRATION # 10194123

SOLARIS WATER MIDSTREAM

JOB No.: SOLW B190004

P:\SOLW_B190004\VHOD\Well Location Plat\SOLW B190004 Jupiter FED SWD-1.dwg

AERIAL MAP



0 1000 2000 4000

GRAPHIC SCALE 1" = 2000'

SECTION 9, T 25 S, R 32 E, N.M.P.M.

COUNTY: LEA STATE: NM

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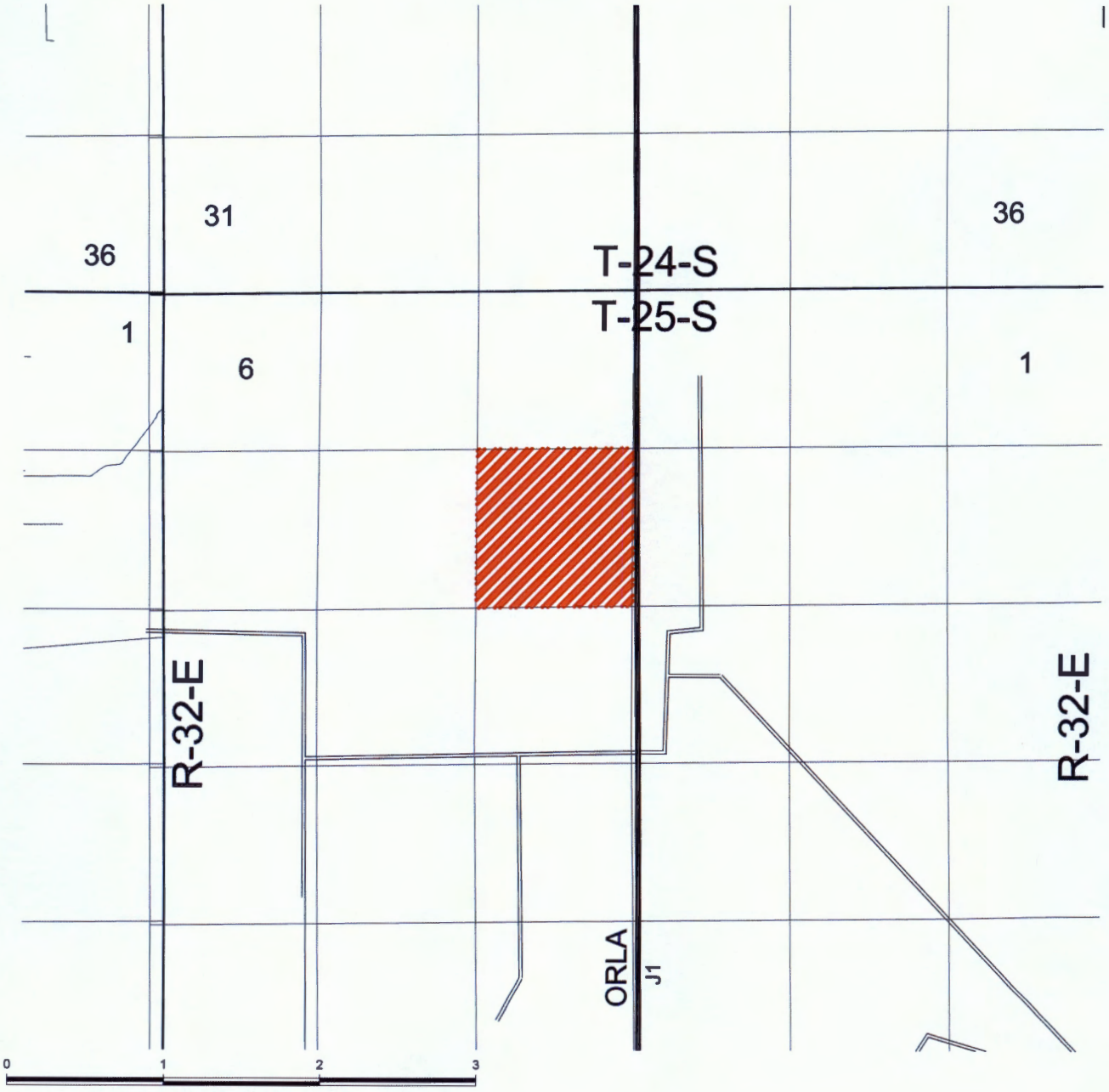
SOLARIS WATER MIDSTREAM

JOB No.: SOLW B190004

P:\SOLW_B190004\PROD\Well Location Plat\SOLW B190004 Jupiter FED SWD-1.dwg

VICINITY MAP



GRAPHIC SCALE 1" = 2 MILE

SECTION 9, T 25 S, R 32 E, N.M.P.M.

COUNTY: LEA STATE: NM

DESCRIPTION: 1388' FNL & 275' FEL

OPERATOR: SOLARIS WATER MIDSTREAM

WELL NAME: JUPITER FED SWD -#1

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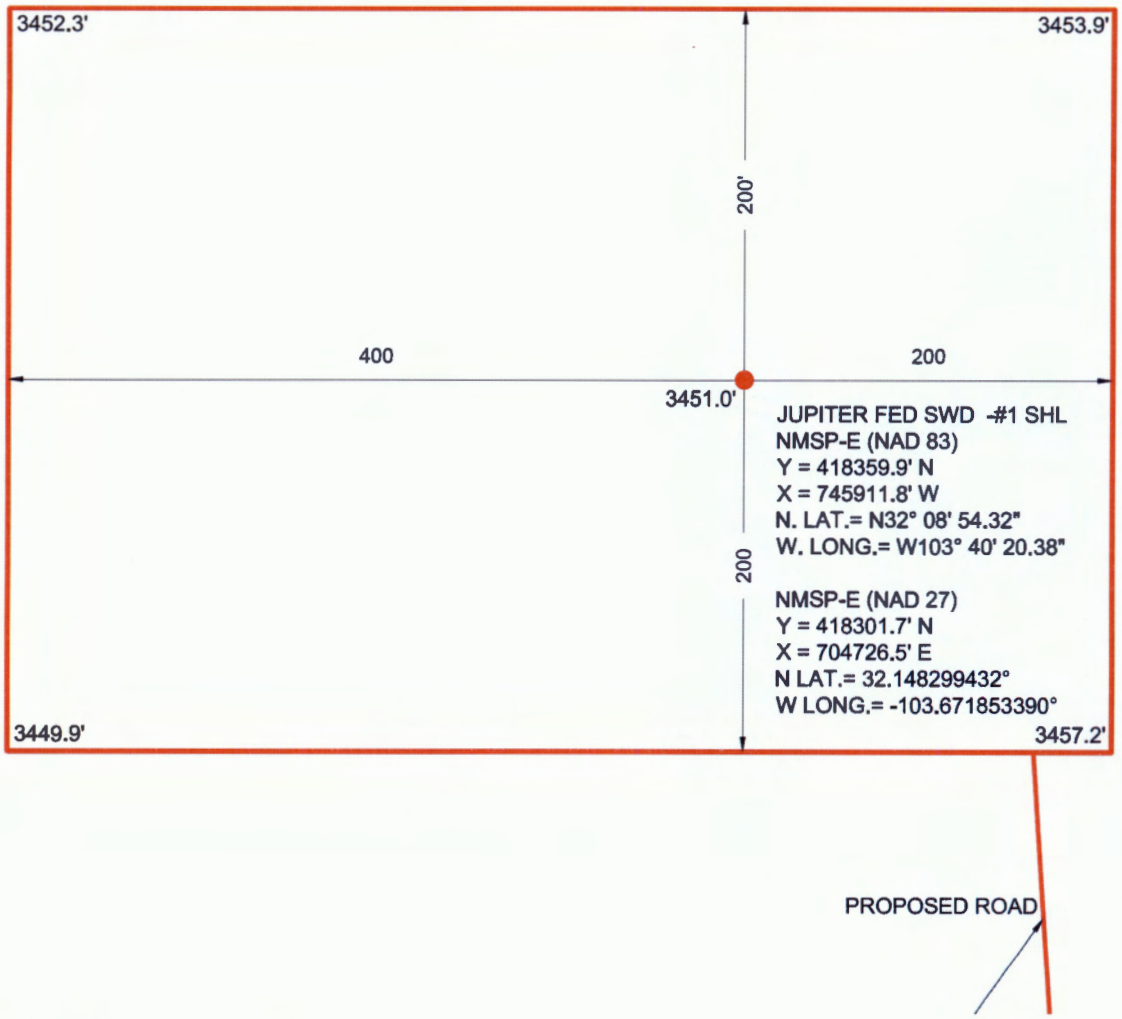
GEOSPATIAL DATA
4500 W. ILLINOIS STE:202
MIDLAND, TEXAS 79705
(432) 756-5680
TEXAS FIRM REGISTRATION # 10194123

SOLARIS WATER MIDSTREAM

JOB No.: SOLW B190004

P:\SOLW_B190004\PROD\Well Location Plat\SOLW B190004 Jupiter FED SWD-1.dwg

SITE LOCATION



0 50 100 200

GRAPHIC SCALE 1" = 100'

SECTION 9, T 25 S, R 32 E, N.M.P.M.

COUNTY: LEA STATE: NM

DESCRIPTION: 1388' FNL & 275' FEL

OPERATOR: SOLARIS WATER MIDSTREAM

WELL NAME: JUPITER FED SWD -#1

DRIVING DIRECTIONS:
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GEOSPATIAL DATA
4500 W. ILLINOIS STE:202
MIDLAND, TEXAS 79705
(432) 756-5680
TEXAS FIRM REGISTRATION # 10194123

SOLARIS WATER MIDSTREAM

JOB No.: SOLW B190004

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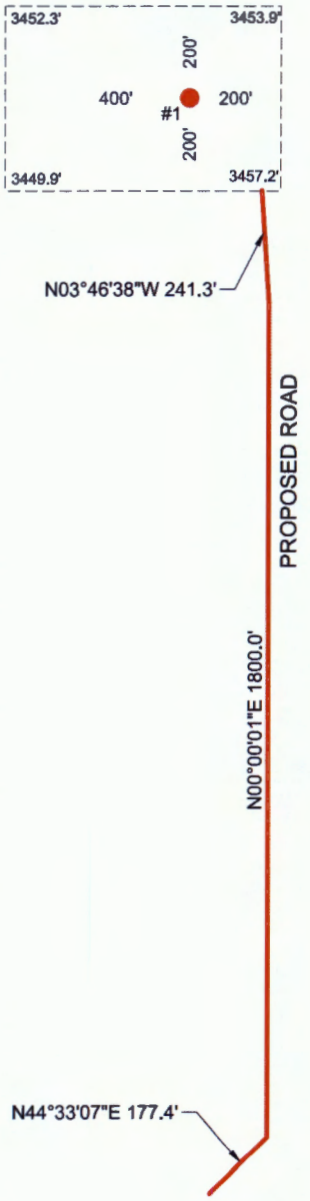
PROPOSED ROAD LOCATION



JUPITER FED SWD #1 SHL
NMSP-E (NAD 83)
Y = 418359.9' N
X = 745911.8' W
N. LAT.= N32° 08' 54.32"
W. LONG.= W103° 40' 20.38"

NMSP-E (NAD 27)
Y = 418301.7' N
X = 704726.4' E
N LAT.= 32.148299480°
W LONG.= -103.671853564°

0 50 100 400

GRAPHIC SCALE 1" = 400'

SECTION 9, T 25 S, R 32 E, N.M.P.M.

COUNTY: LEA STATE: NM

DESCRIPTION: 1388' FNL & 275' FEL

OPERATOR: SOLARIS WATER MIDSTREAM

WELL NAME: JUPITER FED SWD -#1

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SOLARIS WATER MIDSTREAM

JOB No.: SOLW B190004

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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

MAY 29 2019 AM10:42

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: ___ Randall Hicks _____DATE: __5/20/2019_____

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: Jupiter Fe SWD #1

WELL LOCATION:	1388 FNL 275 FEL	H	9	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)

Side 2

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_____

   _____

   _____

   _____

Attachments to C-108

Copy of well bore diagram
Section III-XII Written descriptions to supplement C-108
Plates referenced in written descriptions
Tables referenced in written descriptions
OSE well logs referenced in written descriptions

Section XIII Proof of Notice

SOLARIS WATER MIDSTREAM - WELLBORE DATA SHEET

Jupiter Fed SWD #1

AREA/SYSTEM:	Pecos Star System
WELL NAME:	Jupiter Fed SWD #1
OBJECTIVE:	Devonion
SHL:	1388' FNL & 275' FEL; Sec 9, T25S-R32E
BHL:	Same as SHL
SURFACE ELEV.:	3451'
TOTAL DEPTH:	18,541

SOLARIS WATER MIDSTREAM

MUD LOGGING / E LOGGING / DIRECTIONAL	CASING SIZE (IN.)	RKB DRILL DEPTH MD	RKB DRILL DEPTH TVD	BOPE	FORMATION	HOLE SIZE (IN.)	MUD WT.	FRAC GRAD
Grnd Level	RKB	30						
	GL ELEV.							
	30"	120'	120'	Open		Set and grouted	8.8	
						18.125"	8.4	
		741			Rustler			
	16" 84 lb/ft J55, BTC	991	991	21-1/4"-5M Annular/Diverter			8.4	
		1,041			T/Salt		9.5	
Mud Logging to begin @ 2,500'								
		4,241			B/Salt			
						14.75"	9.5 to 10	
	13.375" 68 lb/ft L-80, EZ-GO FJ3	4,441	4,441	13-5/8"-5M Annular 13-5/8"-5M BOP's			10.0 9.4	FIT
		5,291			Cherry Canyon			
		6,841			Brushy Canyon			
		8,591			Bone Spring			
		9,641			1st BS Sand			
		10,241			2nd BS Sand			
		11,441			3rd BS Sand		9.4	
						12.25"	to 10.0	
		11,866			Wolfcamp			
	TOL	11,766	11,766					
	9.625" 53.5lb/ft HCP-110, BTC	11,966	11,966	13-5/8"-5M Annular 13-5/8"-10M BOP's			10.0 12.5	15.6
		13,566			Canyon			
		13,791			Strawn			
		14,066			Atoka			
		14,616			Morrow			
		14,916			Morrow Clastics		12.5	
						8.5"	to 13.5	
		16,041			Barnett			
		17,066			Devonian			
	Liner Wedge 513 7.625" 39 lb/ft P-110	991	991	13-5/8"-5M Annular 13-5/8"-10M BOP's			13.5	
Run #1 GR/NEUTRON 18,541 - 0 USIT/CBL 991 - 0						6.5"	9.0	
	Dual 0"	18,541		13-5/8"-5M Annular 13-5/8"-10M BOP's	Base of Fusselman is 18,741			
		TD 18,541	18,541					

Casing Set Depths/ Cement

Conductor	120'					Setting Depth			
		Hole Size	Casing Size	Casing Grade	Casing Weight	TOP	Bottom	Sacks of Cement	TOC
Surface		18.125"	16"	J55, BTC	84 lb/ft	0 -	991	2,304	Surface
1st Intermediate		14.75"	13.375"	L-80, EZ-GO FJ3	68 lb/ft	0 -	4441	2,729	Surface
2nd Intermediate		12.25"	9.625"	HCP-110, BTC	53.5lb/ft	0 -	11966	2,846	Surface
Liner Wedge 513		8.5"	7.625"	P-110	39 lb/ft	11766	991	-350	Liner Top
Openhole		6.5"				991	18541		

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: Jupiter Fed SWD #1
Unit Letter H, Section 9, T25S R32E, 1388 FNL, 275 FES

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. Tops were picked from GeoMaps, and offset deep wells. The result of the evaluation of Mr. Brannigan is presented to the right (Figure 1).

Formation	GL	3451
Tops	KB	3481
	SS	TVD
Rustler	2740	741
T/Salt	2440	1041
B/Salt	-760	4241
T/Lamar		
Bell Canyon	-1010	4491
Cherry Canyon	-1810	5291
Brushy Canyon	-3360	6841
Bone Spring	-5110	8591
1st BS Sand	-6160	9641
2nd BS Sand	-6760	10241
3rd BS Sand	-7960	11441
Wolfcamp	-8385	11866
Penn		
Cisco		
Canyon	-10085	13566
Strawn	-10310	13791
Atoka	-10585	14066
Morrow	-11135	14616
Morrow Clastics	-11435	14916
Morrow Lower		
Barnett	-12560	16041
Miss LS	-12810	16291
Woodford		
Devonian	-13585	17066
Fusselman	-14860	18341
T/Montoya	-15260	18741
Simpson	*-15710*	*19191*
Ellenburger	*-16685*	*20166*
Gtanite	*-17310*	*20791*
Injection Interval	17066	18541
TD	18541	

Figure 1

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 16,966'

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 16,966'.

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 17,066-18,541 (1,475 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 & Gas Zones:

Bell Canyon (4,491')
Cherry Canyon (5,291')
Brushy Canyon (6,841')
1st BS Sand (9,641')
2nd BS Sand (10,241')
3rd BS Sand (11,441')
Wolfcamp (11,866')
Canyon (13,566')
Strawn (13,791')
Atoka (14,066')
Morrow Clastics (14,916')

Underlying Oil & Gas Zones:

None Exist

The proposed injection intervals include the formations below the top of the Devonian. The highly cemented carbonates of the Devonian and deeper will provide favorable open hole integrity which to inject salt water without concern of the open hole section collapsing.

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 1a identifies all OCD listed wells and API numbers and shows circles with radii of 0.5, 1.0, and 2.0 miles. Note that where numerous wells are closely-spaced, the API number may not be labeled for clarity. New wells, active wells, plugged wells, and canceled wells have color-coded symbols. Plate 1b shows only new and active wells and circles with radii of 0.5 and 1.0 miles.

Table 1 lists all of the wells shown on Plate 1a within the circle having a 2.0 mile radius.

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

The Federal Government owns surface upon which the SWD is located.

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

According to the data presented in Table 1, there is one well within the area of review that penetrates the proposed injection zone. It is located about 1.8 miles northwest of the proposed Jupiter Fed SWD #1 location. The data on this well are:

API Number	Well Name	Well Type	ULSTR	OGRID	OGRID Name	Status
30-025-41524	COTTON DRAW 32 STATE SWD #002	Salt Water Disposal	P-32-24S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	Active

Elevation	Measured Depth	Total Depth	Spud Date	Pool ID
3477	18550	18449	11/18/2015	[96101] SWD, DEVONIAN

This is an active well.

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, Avalon, and Delaware Formations are the subjects of the analyses. These formations, in addition to the Wolfcamp Formation, 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, Delaware, and Wolfcamp Formations 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 Delaware, Avalon, Bone Springs, and Wolfcamp Formations 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 depths to the top of the Devonian and the base of the Fusselman are 17,066 and 18,741 respectively. The depth interval of the injection interval is 17,066-18,541 (1,475 feet), within the Devonian and Fusselman Formations.

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 Jupiter SWD, the closest water well (well USGS-14343) is associated with two ranch building complexes, about 1.85 miles to the north of the Jupiter SWD site. In January of 2013, a depth to water of 289.69 feet was reported by the USGS.

In this area of Lea County, the Chinle yields water to wells from 100-200 feet below the ground surface (bgs) 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 Jupiter SWD, the depth interval of this potential source of fresh water is about 700-1000 feet. This data suggests that USGS-14343 accesses water within the Chinle Formation.

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 1.5 miles of the proposed location. The location of nearby mapped surface water bodies are shown in Plate 4. No mapped surface water exists within the Area of Review.

In the area of the Jupiter SWD, the depth interval of the Rustler is about 700-1000 feet bgs, 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 991 feet at the proposed Jupiter 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. In this area, groundwater in the underlying Rustler formation may be relatively brackish.

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 Jupiter Fed 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]
- 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

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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

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

Plates

Plate 1	OCD wells within the area of review
Plate 2	Mineral leases within the area of review
Plate 3	Water supply wells within the area of review
Plate 4	Surface water within the area of review

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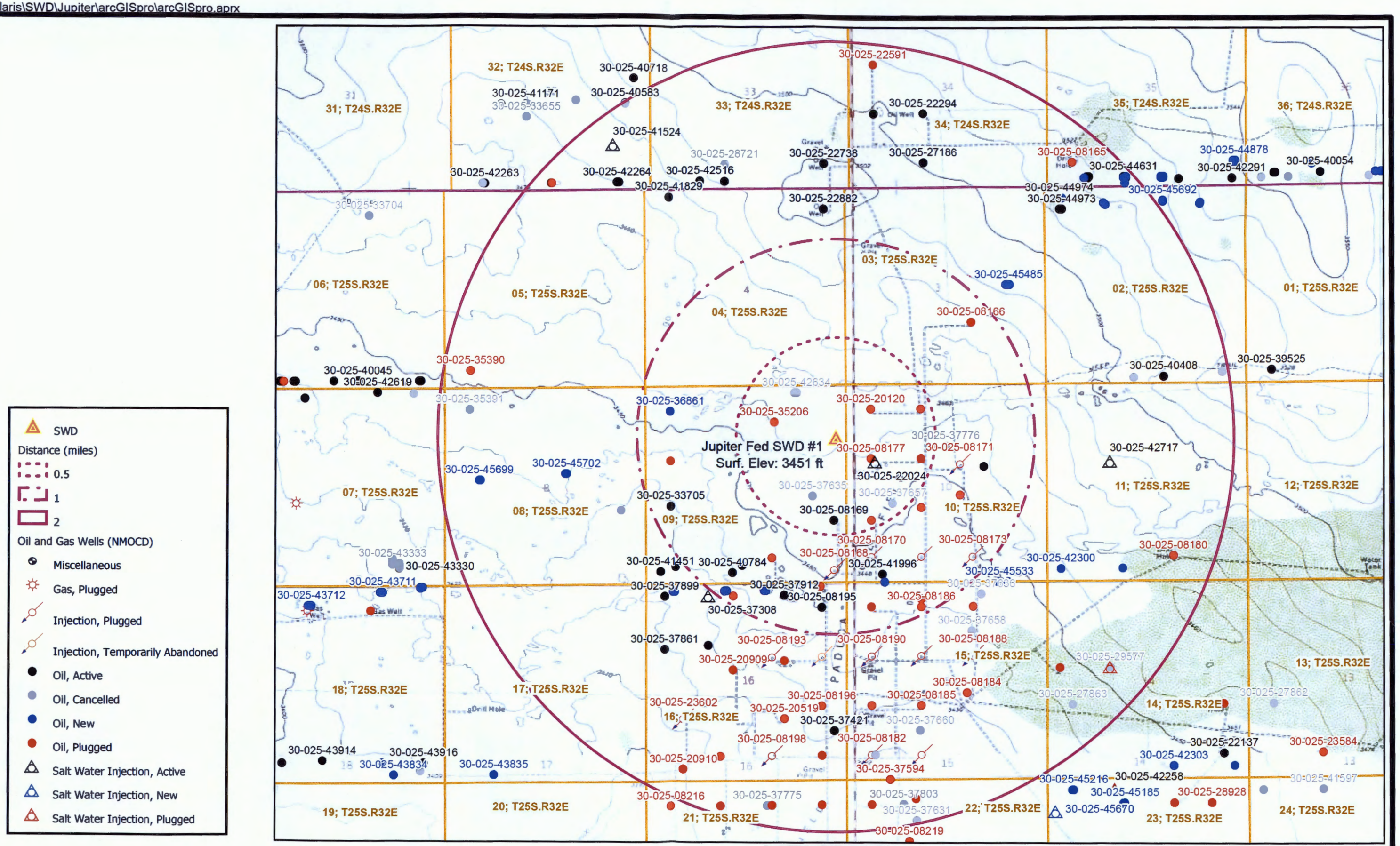

R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Oil and Gas Wells (All NMOCD Wells) Solaris Water Midstream Jupiter Fed SWD #1	Plate 1a May 2019

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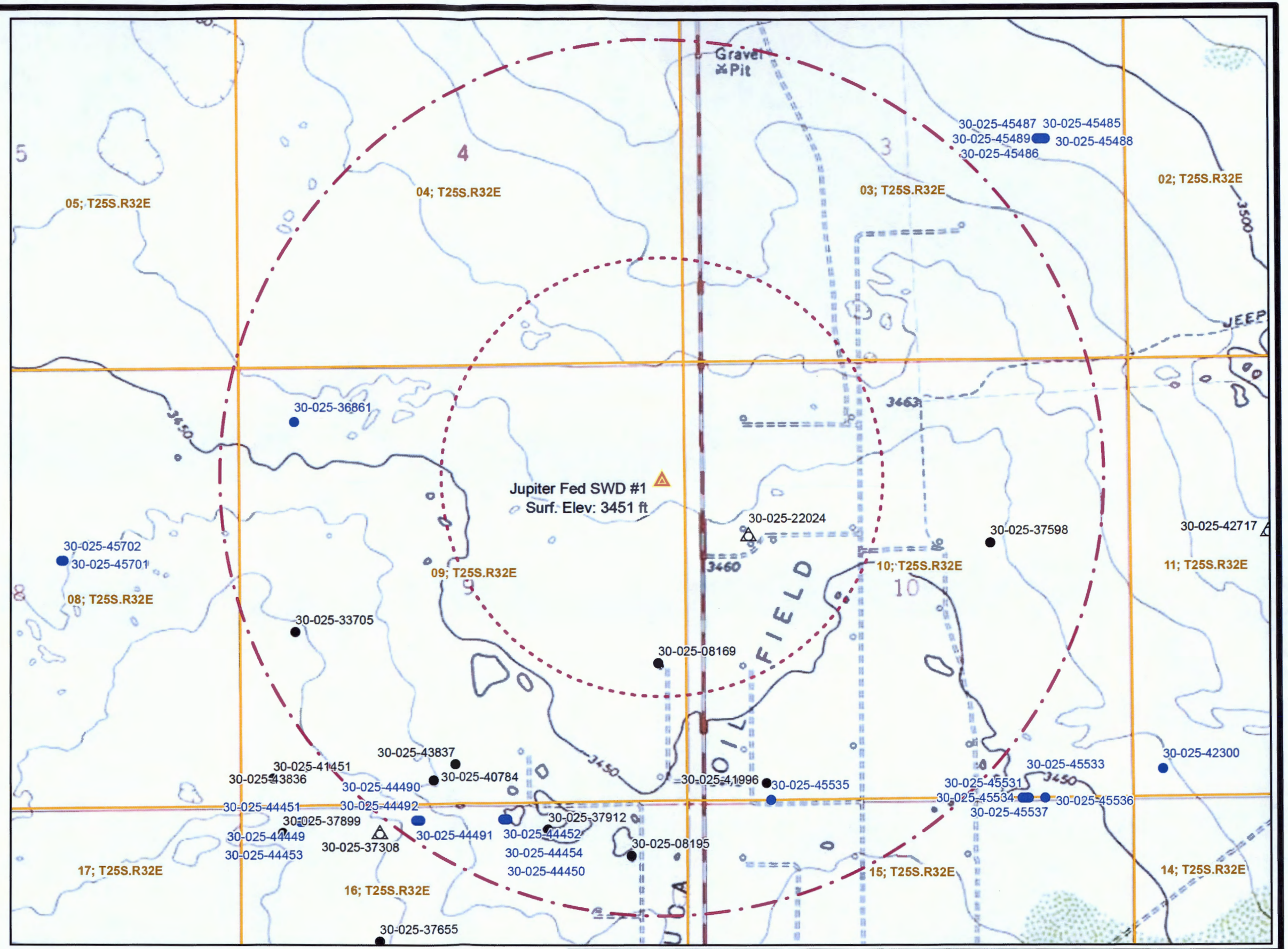

R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Oil and Gas Wells within 1-Mile (Active/New) Solaris Water Midstream Jupiter Fed SWD #1	Plate 1b May 2019

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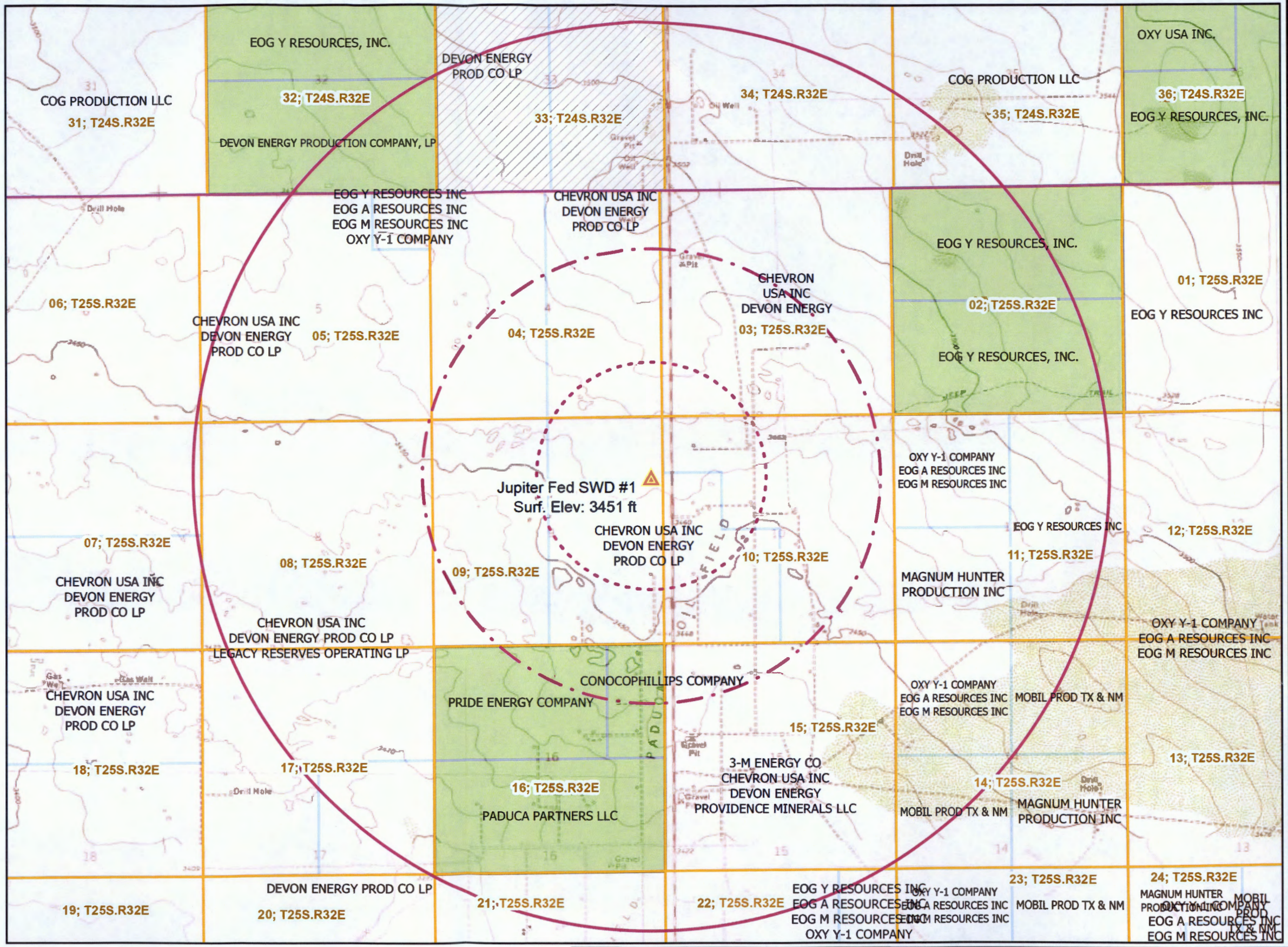

R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Federal and State Oil and Gas Leases within 2-Miles Solaris Water Midstream Jupiter Fed SWD #1	Plate 2a May 2019

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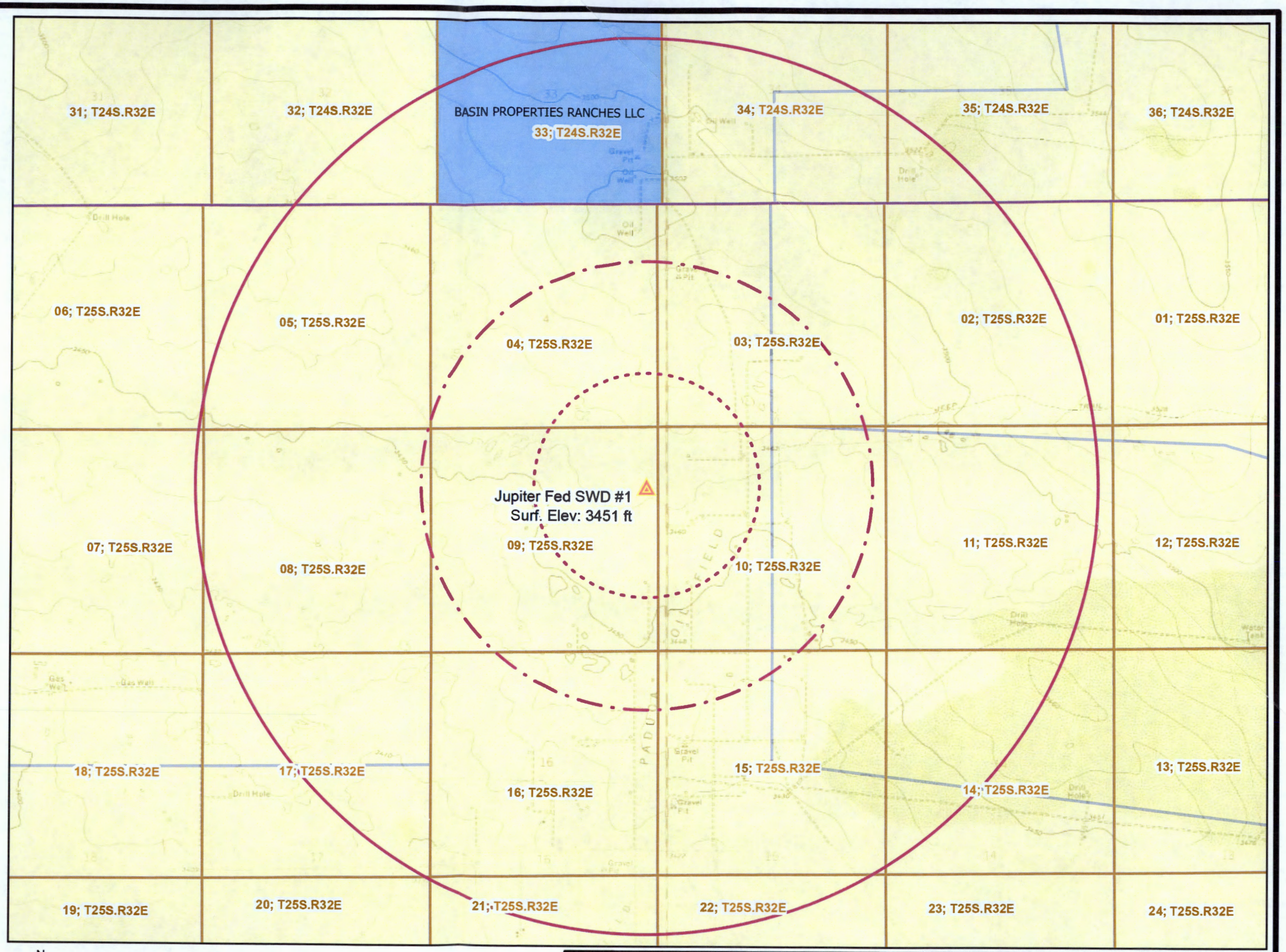

SWD
Distance (miles)
0.5
1
2
Surface Ownership
City, State, Federal
Private

N
W E
S

0 0.25 0.5
Miles

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Surface Owners within 2-Miles

Solaris Water Midstream
Jupiter Fed SWD #1

Plate 2b

May 2019

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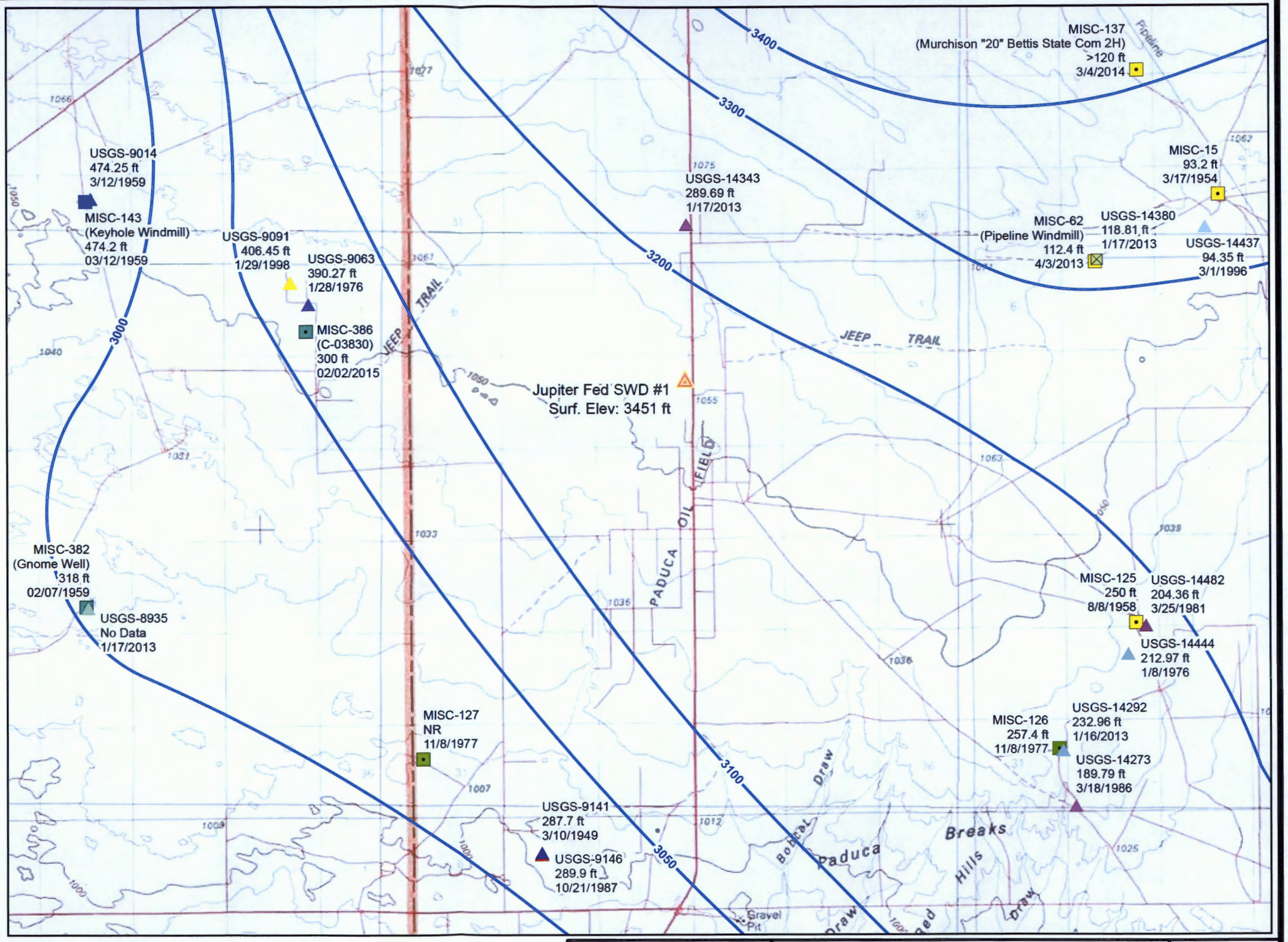

SWD

Potentiometric Surface (ft msl)

Isocontours

- Isocontour

USGS Gauging Station (DTW, Date)

Aquifer Code, Well Status

- Alluvium/Bolsom, Site was dry (no water level was recorded).
- Ogallala
- Chinle
- Santa Rosa
- Santa Rosa, Site had been pumped recently.
- Rustler
- Azotea Tongue of Seven Rivers Formation

Misc. Water Wells (Well ID, DTW)

Well Depth (ft)

- No Data
- 151 - 500
- 351 - 500
- > 500

N W E S

0 0.5 1 Miles

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Potentiometric Surface with Depth to Water

Solaris Water Midstream
Jupiter Fed SWD #1

Plate 3a

May 2019

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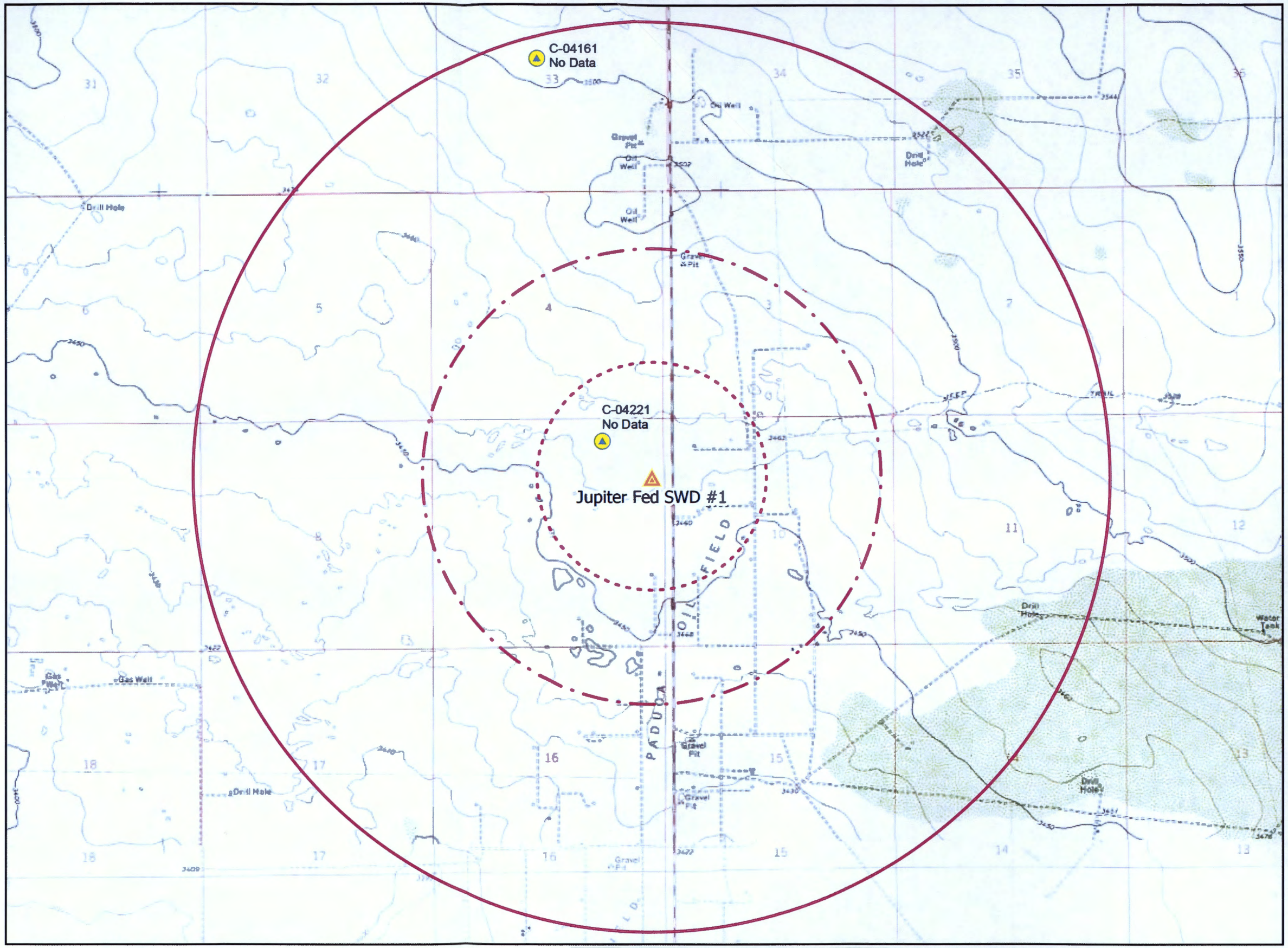

SWD
Distance (miles)
0.5
1
2
OSE Wells (DTW, Date)
Well Depth (ft)
Not Recorded

N
W E
S

0 0.25 0.5 Miles

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Nearby Water Wells in OSE Database within 2-Miles

Solaris Water Midstream
Jupiter Fed SWD #1

Plate 3b

May 2019

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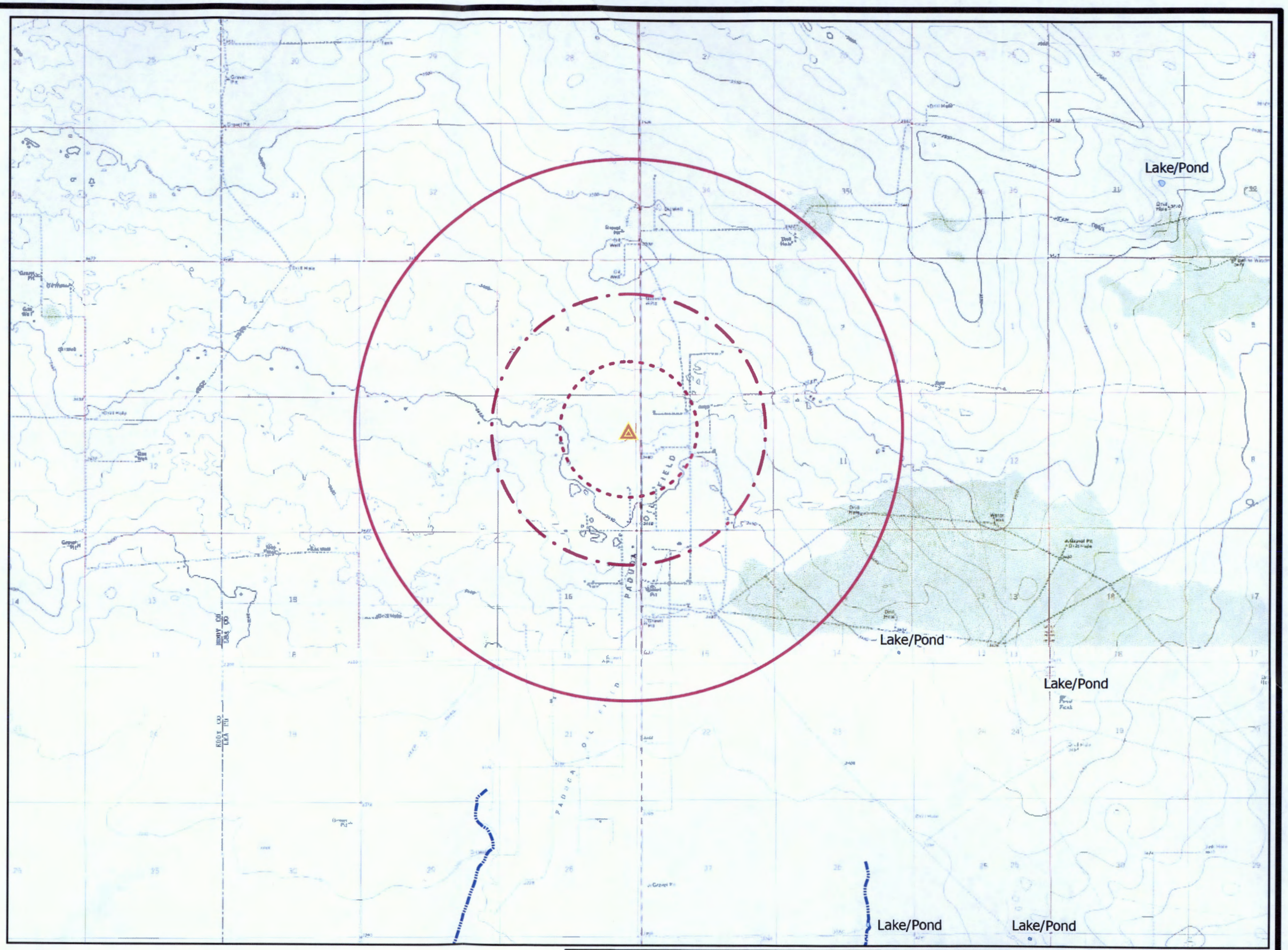

SWD

Distance (miles)

0.5

1

2

Water Bodies (1307)

Lake/Pond

River and Drainages (1307)

Stream/River Artificial Path

Intermittent Stream

Note: Some features not present in map extent.

N W E S

0 0.5 1 Miles

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Surface Water

Solaris Water Midstream
Jupiter Fed SWD #1

Plate 4

May 2019

Tables

Table 1	OCD wells within the area of review
Table 2a	BLM leases within the area of review
Table 2b	State leases within the area of review
Table 3	Produced Water Chemistry of Nearby Wells
Table 4	Available Devonian formational water quality data

API	Well Name	Well Type	ULSTR	OGRID	OGRID Name	Status	Total Depth	Pool ID
30-025-08165	PRE-ONGARD WELL #001	O	M-35-24S-32E	214263	PRE-ONGARD WELL OPERATOR	P	4979	
30-025-08166	COTTON DRAW UNIT #049	O	J-03-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4890	
30-025-08167	COTTON DRAW UNIT #014	O	O-09-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4800	[49460] PADUCA, DELAWARE
30-025-08168	COTTON DRAW UNIT #034	I	P-09-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4850	[49460] PADUCA, DELAWARE
30-025-08169	COTTON DRAW UNIT #052	O	I-09-25S-32E	20077	SAHARA OPERATING CO	A	4829	[49460] PADUCA, DELAWARE
30-025-08170	COTTON DRAW UNIT #006	I	M-10-25S-32E	16696	OXY USA INC	P	4795	[49460] PADUCA, DELAWARE
30-025-08171	COTTON DRAW UNIT #060	I	G-10-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4896	[49460] PADUCA, DELAWARE
30-025-08172	E F RAY B NCT-1 #006	O	J-10-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	P	4775	[49460] PADUCA, DELAWARE
30-025-08173	E F RAY B NCT-1 #001	I	O-10-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	P	4800	[49460] PADUCA, DELAWARE
30-025-08174	COTTON DRAW UNIT #033	O	F-10-25S-32E	17891	POGO PRODUCING CO	P	4791	[49460] PADUCA, DELAWARE
30-025-08175	COTTON DRAW UNIT #019	I	N-10-25S-32E	16696	OXY USA INC	P	4771	[49460] PADUCA, DELAWARE
30-025-08176	COTTON DRAW UNIT #024	O	K-10-25S-32E	17891	POGO PRODUCING CO	P	4787	[49460] PADUCA, DELAWARE
30-025-08177	PRE-ONGARD WELL #002	O	E-10-25S-32E	214263	PRE-ONGARD WELL OPERATOR	P	4850	[49460] PADUCA, DELAWARE
30-025-08178	E F RAY B NCT-1 #003	O	C-10-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	P	4815	[49460] PADUCA, DELAWARE
30-025-08179	COTTON DRAW UNIT #041	O	L-10-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4825	[49460] PADUCA, DELAWARE
30-025-08180	PRE-ONGARD WELL #001	O	O-11-25S-32E	214263	PRE-ONGARD WELL OPERATOR	P	4842	
30-025-08181	PRE-ONGARD WELL #001	O	E-14-25S-32E	214263	PRE-ONGARD WELL OPERATOR	P	4843	
30-025-08182	COTTON DRAW UNIT #001	I	M-15-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4805	[49460] PADUCA, DELAWARE
30-025-08183	COTTON DRAW UNIT #002	I	F-15-25S-32E	16696	OXY USA INC	P	4811	[49460] PADUCA, DELAWARE
30-025-08184	G E JORDAN NCT-1 #010	O	J-15-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	P	4780	[49460] PADUCA, DELAWARE
30-025-08185	COTTON DRAW UNIT #008	O	K-15-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4730	[49460] PADUCA, DELAWARE
30-025-08186	COTTON DRAW UNIT #005	O	C-15-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4851	[49460] PADUCA, DELAWARE
30-025-08187	COTTON DRAW UNIT #011	I	N-15-25S-32E	16696	OXY USA INC	P	4727	[49460] PADUCA, DELAWARE
30-025-08188	COTTON DRAW UNIT #017	I	G-15-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4774	[49460] PADUCA, DELAWARE
30-025-08189	COTTON DRAW UNIT #021	O	B-15-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4798	[49460] PADUCA, DELAWARE
30-025-08190	COTTON DRAW UNIT #012	I	E-15-25S-32E	16696	OXY USA INC	P	4743	[49460] PADUCA, DELAWARE
30-025-08191	COTTON DRAW UNIT #020	O	D-15-25S-32E	16696	OXY USA INC	P	4745	[49460] PADUCA, DELAWARE
30-025-08192	COTTON DRAW UNIT #022	O	L-15-25S-32E	16696	OXY USA INC	P	4774	[49460] PADUCA, DELAWARE
30-025-08193	COTTON DRAW UNIT #013	I	G-16-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4796	[49460] PADUCA, DELAWARE
30-025-08194	COTTON DRAW UNIT #003	I	H-16-25S-32E	20077	SAHARA OPERATING CO	E	4778	[49460] PADUCA, DELAWARE
30-025-08195	COTTON DRAW UNIT #010	O	A-16-25S-32E	20077	SAHARA OPERATING CO	A	4836	[49460] PADUCA, DELAWARE
30-025-08196	MONSANTO STATE #001	O	I-16-25S-32E	16696	OXY USA INC	P	4771	[49460] PADUCA, DELAWARE
30-025-08197	MONSANTO STATE #002	O	P-16-25S-32E	16696	OXY USA INC	P	4768	[49460] PADUCA, DELAWARE
30-025-08198	MONSANTO STATE #003	I	O-16-25S-32E	16696	OXY USA INC	H	4736	[49460] PADUCA, DELAWARE
30-025-08199	MONSANTO STATE #004	O	N-16-25S-32E	16696	OXY USA INC	P	4715	[49460] PADUCA, DELAWARE
30-025-08203	COTTON DRAW UNIT #025	O	A-21-25S-32E	16696	OXY USA INC	P	4790	[49460] PADUCA, DELAWARE
30-025-08209	COTTON DRAW UNIT #031	O	C-21-25S-32E	16696	OXY USA INC	P	4755	[49460] PADUCA, DELAWARE
30-025-08215	COTTON DRAW UNIT #007	O	B-21-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4734	[49460] PADUCA, DELAWARE
30-025-08221	COTTON DRAW UNIT #004	O	D-22-25S-32E	16696	OXY USA INC	P	4760	[49460] PADUCA, DELAWARE
30-025-08223	COTTON DRAW UNIT #016	O	C-22-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4763	[49460] PADUCA, DELAWARE
30-025-20120	COTTON DRAW UNIT #063	O	D-10-25S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4910	[49460] PADUCA, DELAWARE
30-025-20519	MONSANTO STATE #005	O	J-16-25S-32E	16696	OXY USA INC	P	4792	[49460] PADUCA, DELAWARE
30-025-20907	MONSANTO STATE #006	O	K-16-25S-32E	16696	OXY USA INC	P	4739	[49460] PADUCA, DELAWARE
30-025-20909	PRE-ONGARD WELL #003	O	F-16-25S-32E	214263	PRE-ONGARD WELL OPERATOR	P	4700	
30-025-20910	MONSANTO STATE #007	O	M-16-25S-32E	16696	OXY USA INC	P	4700	[49460] PADUCA, DELAWARE
30-025-21474	PRE-ONGARD WELL #001	O	G-16-25S-32E	214263	PRE-ONGARD WELL OPERATOR	P	4714	
30-025-22024	COTTON DRAW SWD #066	S	E-10-25S-32E	161968	MESQUITE SWD, INC	A	15769	[96802] SWD, BELL CANYON-CHERRY CANYON
30-025-22294	COTTON DRAW UNIT #069	O	K-34-24S-32E	20077	SAHARA OPERATING CO	A	4937	[49490] PADUCA, DELAWARE, NORTH
30-025-22439	COTTON DRAW UNIT #070	O	L-34-24S-32E	20077	SAHARA OPERATING CO	A	4850	[49490] PADUCA, DELAWARE, NORTH
30-025-22591	COTTON DRAW UNIT #071	O	E-34-24S-32E	22351	TEXACO EXPLORATION & PRODUCTION INC	P	4850	
30-025-22738	COTTON DRAW UNIT #072	O	P-33-24S-32E	20077	SAHARA OPERATING CO	A	4850	[49490] PADUCA, DELAWARE, NORTH
30-025-22882	COTTON DRAW UNIT #073	O	1-04-25S-32E	20077	SAHARA OPERATING CO	A	4870	[49490] PADUCA, DELAWARE, NORTH
30-025-23602	MONSANTO STATE #008	I	L-16-25S-32E	16696	OXY USA INC	P	4750	[49460] PADUCA, DELAWARE
30-025-27186	COTTON DRAW UNIT #074	O	N-34-24S-32E	20077	SAHARA OPERATING CO	A	4967	[49490] PADUCA, DELAWARE, NORTH
30-025-27863	PRE-ONGARD WELL #001	O	L-14-25S-32E	214263	PRE-ONGARD WELL OPERATOR	C	0	

API	Well Name	Well Type	ULSTR	OGRID	OGRID Name	Status	Total Depth	Pool ID
30-025-27873	COTTON DRAW UNIT #075	O	C-15-25S-32E	16696	OXY USA INC	P	4750	[49460] PADUCA, DELAWARE
30-025-28721	PRE-ONGARD WELL #001	O	N-33-24S-32E	214263	PRE-ONGARD WELL OPERATOR	C	0	
30-025-29577	PADUCA UNIT #003	O	F-14-25S-32E	25575	EOG Y RESOURCES, INC.	C	0	
30-025-31177	PADUCA AIU FEDERAL SWD #001	S	F-14-25S-32E	215099	CIMAREX ENERGY CO.	P	8870	[49460] PADUCA, DELAWARE; [96802] SWD, BELL CANYON-CHERRY CANYON
30-025-33705	COTTON DRAW 9L FEDERAL #001	O	L-09-25S-32E	240974	LEGACY RESERVES OPERATING, LP	A	13578	[49460] PADUCA, DELAWARE; [96715] WC-025 G-06 S253206M, BONE SPRING
30-025-35206	RAY 9 FEDERAL #001	O	B-09-25S-32E	20077	SAHARA OPERATING CO	P	4468	[96838] DRY AND ABANDONED
30-025-35390	SPENCER 5 FEDERAL #001	O	M-05-25S-32E	20077	SAHARA OPERATING CO	P	4628	[96838] DRY AND ABANDONED
30-025-35391	BOYLE 8 FEDERAL #001	O	D-08-25S-32E	20077	SAHARA OPERATING CO	C	0	
30-025-36727	PADUCA 9 FEDERAL #001	O	E-09-25S-32E	213179	H L BROWN OPERATING, LLC	P	4762	[96838] DRY AND ABANDONED
30-025-36728	PADUCA 8 FEDERAL #001	O	I-08-25S-32E	213179	H L BROWN OPERATING, LLC	C	0	
30-025-36861	PADUCA 9 FEDERAL #002	O	D-09-25S-32E	213179	H L BROWN OPERATING, LLC	N	0	
30-025-37308	PADUCA DELAWARE 16 STATE #001	S	C-16-25S-32E	151323	PRIDE ENERGY COMPANY	A	4850	[49460] PADUCA, DELAWARE
30-025-37421	MONSANTO STATE #010	O	P-16-25S-32E	20077	SAHARA OPERATING CO	A	5000	[49460] PADUCA, DELAWARE
30-025-37521	COTTON DRAW UNIT #092	O	A-16-25S-32E	16696	OXY USA INC	H	4940	[49460] PADUCA, DELAWARE; [96802] SWD, BELL CANYON-CHERRY CANYON
30-025-37594	COTTON DRAW UNIT #096	O	M-15-25S-32E	16696	OXY USA INC	P	4950	[49460] PADUCA, DELAWARE
30-025-37598	COTTON DRAW UNIT #102	O	G-10-25S-32E	20077	SAHARA OPERATING CO	A	5000	[49460] PADUCA, DELAWARE
30-025-37631	COTTON DRAW UNIT #097	O	C-22-25S-32E	256999	POGO PRODUCING COMPANY LLC	C	0	
30-025-37635	COTTON DRAW UNIT #103	O	I-09-25S-32E	256999	POGO PRODUCING COMPANY LLC	C	0	
30-025-37636	COTTON DRAW UNIT #104	O	B-15-25S-32E	256999	POGO PRODUCING COMPANY LLC	C	0	
30-025-37655	PADUCA DELAWARE 16 STATE #002	O	F-16-25S-32E	151323	PRIDE ENERGY COMPANY	A	4890	[49460] PADUCA, DELAWARE
30-025-37657	COTTON DRAW UNIT #091	O	L-10-25S-32E	256999	POGO PRODUCING COMPANY LLC	C	0	
30-025-37658	COTTON DRAW UNIT #093	O	B-15-25S-32E	256999	POGO PRODUCING COMPANY LLC	C	0	
30-025-37660	COTTON DRAW UNIT #095	O	N-15-25S-32E	256999	POGO PRODUCING COMPANY LLC	C	0	
30-025-37775	COTTON DRAW UNIT #106	O	B-21-25S-32E	256999	POGO PRODUCING COMPANY LLC	C	0	
30-025-37776	COTTON DRAW UNIT #109	O	F-10-25S-32E	256999	POGO PRODUCING COMPANY LLC	C	0	
30-025-37802	COTTON DRAW UNIT #107	O	M-15-25S-32E	256999	POGO PRODUCING COMPANY LLC	C	0	
30-025-37803	COTTON DRAW UNIT #108	O	C-22-25S-32E	256999	POGO PRODUCING COMPANY LLC	C	0	
30-025-37861	PADUCA DELAWARE 16 STATE #004	O	E-16-25S-32E	151323	PRIDE ENERGY COMPANY	A	4850	[49460] PADUCA, DELAWARE
30-025-37899	PADUCA DELAWARE 16 STATE #003	O	D-16-25S-32E	151323	PRIDE ENERGY COMPANY	A	4850	[49460] PADUCA, DELAWARE
30-025-37912	PADUCA DELAWARE 16 STATE #005	O	B-16-25S-32E	151323	PRIDE ENERGY COMPANY	A	4850	[49460] PADUCA, DELAWARE
30-025-37937	PADUCA DELAWARE 16 STATE #008	O	C-16-25S-32E	151323	PRIDE ENERGY COMPANY	P	67	[96838] DRY AND ABANDONED
30-025-40408	UNDAUNTED BSD STATE COM #001H	O	O-02-25S-32E	7377	EOG RESOURCES INC	A	10882	[97784] WC-025 G-06 S253201M, UPPER BONE SPR; [97964] WC-025 G-07 S243225C, LWR BONE SPRIN
30-025-40495	COTTON DRAW 32 STATE #001C	O	I-32-24S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	0	[49490] PADUCA, DELAWARE, NORTH
30-025-40583	COTTON DRAW 32 STATE FEDERAL COM #001H	O	I-32-24S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	8468	[49490] PADUCA, DELAWARE, NORTH
30-025-40784	COTTON DRAW 9L FEDERAL #002H	O	N-09-25S-32E	215099	CIMAREX ENERGY CO.	A	11846	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-41451	COTTON DRAW 9L FEDERAL #003H	O	M-09-25S-32E	215099	CIMAREX ENERGY CO.	A	11768	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-41524	COTTON DRAW 32 STATE SWD #002	O	P-32-24S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	18449	[96101] SWD, DEVONIAN
30-025-41829	LIPPIZZAN 4 FEDERAL #001H	O	4-04-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	10708	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-41996	COTTON DRAW UNIT #237H	O	M-10-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	10643	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-42216	CHINCOTEAGUE 32 STATE COM #003H	O	N-32-24S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	10491	[97899] WC-025 G-06 S253206M, BONE SPRING
30-025-42217	CHINCOTEAGUE 32 STATE COM #004	O	O-32-24S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	P	100	[97899] WC-025 G-06 S253206M, BONE SPRING
30-025-42219	CHINCOTEAGUE 32 STATE COM #006H	O	P-32-24S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	10692	[97899] WC-025 G-06 S253206M, BONE SPRING
30-025-42264	CHINCOTEAGUE 32 STATE COM #005H	O	P-32-24S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	10692	[97899] WC-025 G-06 S253206M, BONE SPRING
30-025-42300	FUGGLES 11 FEDERAL COM #001H	O	M-11-25S-32E	215099	CIMAREX ENERGY CO.	N	0	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-42301	FUGGLES 11 FEDERAL COM #002H	O	N-11-25S-32E	215099	CIMAREX ENERGY CO.	N	0	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-42516	PAINT 33 FEDERAL #001H	O	M-33-24S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	10751	[97899] WC-025 G-06 S253206M, BONE SPRING
30-025-42591	PAINT 33 FEDERAL #002H	O	N-33-24S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	10772	[97899] WC-025 G-06 S253206M, BONE SPRING
30-025-42633	PADUCA BREAKS 9 FEDERAL #001H	O	B-09-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	0	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-42634	PADUCA BREAKS 9 FEDERAL #002H	O	A-09-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	0	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-42717	BLUE QUAIL SWD FEDERAL #001	S	F-11-25S-32E	161968	MESQUITE SWD, INC	A	6274	[96769] SWD, BELL CANYON
30-025-43118	UNDAUNTED BSD STATE COM #003C	O	P-02-25S-32E	25575	EOG Y RESOURCES, INC.	C	0	[97964] WC-025 G-07 S243225C, LWR BONE SPRIN
30-025-43453	UNDAUNTED BSD STATE COM #002C	O	N-02-25S-32E	25575	EOG Y RESOURCES, INC.	C	0	[97964] WC-025 G-07 S243225C, LWR BONE SPRIN
30-025-43836	COTTON DRAW 9L FEDERAL #004H	O	M-09-25S-32E	215099	CIMAREX ENERGY CO.	A	10595	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-43837	COTTON DRAW 9L FEDERAL #005H	O	N-09-25S-32E	215099	CIMAREX ENERGY CO.	A	10529	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-44449	PADUCA 16 STATE #201H	O	D-16-25S-32E	151323	PRIDE ENERGY COMPANY	N	0	[49460] PADUCA, DELAWARE

API	Well Name	Well Type	ULSTR	OGRID	OGRID Name	Status	Total Depth	Pool ID
30-025-44450	PADUCA 16 STATE #202H	O	B-16-25S-32E	151323	PRIDE ENERGY COMPANY	N	0	[49460] PADUCA, DELAWARE
30-025-44451	PADUCA 16 STATE #501H	O	D-16-25S-32E	151323	PRIDE ENERGY COMPANY	N	0	[96229] MESA VERDE, BONE SPRING
30-025-44452	PADUCA 16 STATE #502H	O	B-16-25S-32E	151323	PRIDE ENERGY COMPANY	N	0	[96229] MESA VERDE, BONE SPRING
30-025-44453	PADUCA 16 STATE #701H	O	D-16-25S-32E	151323	PRIDE ENERGY COMPANY	N	0	[98270] WC-025 G-07 S253216D, UPPER WOLFCAMP
30-025-44454	PADUCA 16 STATE #702H	O	B-16-25S-32E	151323	PRIDE ENERGY COMPANY	N	0	[98270] WC-025 G-07 S253216D, UPPER WOLFCAMP
30-025-44490	PADUCA 16 STATE #203H	O	C-16-25S-32E	151323	PRIDE ENERGY COMPANY	N	0	[49460] PADUCA, DELAWARE
30-025-44491	PADUCA 16 STATE #503H	O	C-16-25S-32E	151323	PRIDE ENERGY COMPANY	N	0	[96229] MESA VERDE, BONE SPRING
30-025-44492	PADUCA 16 STATE #703H	O	C-16-25S-32E	151323	PRIDE ENERGY COMPANY	N	0	[98270] WC-025 G-07 S253216D, UPPER WOLFCAMP
30-025-44628	EIDER FEDERAL #301H	O	M-35-24S-32E	217955	COG PRODUCTION, LLC	N	0	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-44629	EIDER FEDERAL #101H	O	N-35-24S-32E	217955	COG PRODUCTION, LLC	A	9217	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-44630	EIDER FEDERAL #102H	O	M-35-24S-32E	217955	COG PRODUCTION, LLC	A	9239	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-44631	EIDER FEDERAL #103H	O	N-35-24S-32E	217955	COG PRODUCTION, LLC	A	9220	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-44632	EIDER FEDERAL #104H	O	N-35-24S-32E	217955	COG PRODUCTION, LLC	N	0	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-44635	EIDER FEDERAL #203H	O	N-35-24S-32E	217955	COG PRODUCTION, LLC	A	9372	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-44636	EIDER FEDERAL #204H	O	N-35-24S-32E	217955	COG PRODUCTION, LLC	A	9385	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-44637	EIDER FEDERAL #302H	O	M-35-24S-32E	217955	COG PRODUCTION, LLC	A	9511	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-44638	EIDER FEDERAL #303H	O	N-35-24S-32E	217955	COG PRODUCTION, LLC	N	0	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-44639	EIDER FEDERAL #304H	O	N-35-24S-32E	217955	COG PRODUCTION, LLC	N	0	[97784] WC-025 G-06 S253201M, UPPER BONE SPR
30-025-44971	SAVAGE 2 STATE COM #101H	O	4-02-25S-32E	7377	EOG RESOURCES INC	A	9113	[97964] WC-025 G-07 S243225C, LWR BONE SPRIN
30-025-44972	SAVAGE 2 STATE COM #201H	O	4-02-25S-32E	7377	EOG RESOURCES INC	A	9325	[97964] WC-025 G-07 S243225C, LWR BONE SPRIN
30-025-44973	SAVAGE 2 STATE COM #301H	O	4-02-25S-32E	7377	EOG RESOURCES INC	A	9841	[97964] WC-025 G-07 S243225C, LWR BONE SPRIN
30-025-44974	SAVAGE 2 STATE COM #501H	O	4-02-25S-32E	7377	EOG RESOURCES INC	A	10545	[97964] WC-025 G-07 S243225C, LWR BONE SPRIN
30-025-44975	SAVAGE 2 STATE COM #701H	O	4-02-25S-32E	7377	EOG RESOURCES INC	A	12254	[98180] WC-025 G-09 S253309P, UPR WOLFCAMP
30-025-44976	SAVAGE 2 STATE COM #741H	O	4-02-25S-32E	7377	EOG RESOURCES INC	N	0	[98180] WC-025 G-09 S253309P, UPR WOLFCAMP
30-025-45485	CO GRIZZLY 3 27 FEDERAL #051H	O	H-03-25S-32E	4323	CHEVRON U S A INC	N	0	[98310] WC-025 G-09 S253203H, UPR WOLFCAMP
30-025-45486	CO GRIZZLY 3 10 FEDERAL #052H	O	H-03-25S-32E	4323	CHEVRON U S A INC	N	0	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-45487	CO GRIZZLY 3 10 FEDERAL #055H	O	H-03-25S-32E	4323	CHEVRON U S A INC	N	0	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-45488	CO GRIZZLY 3 34 FEDERAL #057H	O	H-03-25S-32E	4323	CHEVRON U S A INC	N	0	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-45489	CO GRIZZLY 3 34 FEDERAL #510H	O	H-03-25S-32E	4323	CHEVRON U S A INC	N	0	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-45531	CO YETI 15 22 FEDERAL COM #051H	O	B-15-25S-32E	4323	CHEVRON U S A INC	N	0	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-45533	CO YETI 15 22 FEDERAL COM #053H	O	A-15-25S-32E	4323	CHEVRON U S A INC	N	0	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-45534	CO YETI 15 22 FEDERAL COM #052H	O	A-15-25S-32E	4323	CHEVRON U S A INC	N	0	[98270] WC-025 G-07 S253216D, UPPER WOLFCAMP
30-025-45535	CO YETI 15 22 FEDERAL COM #055H	O	A-15-25S-32E	4323	CHEVRON U S A INC	N	0	[96715] WC-025 G-06 S253206M, BONE SPRING
30-025-45536	CO YETI 15 22 FEDERAL COM #056H	O	A-15-25S-32E	4323	CHEVRON U S A INC	N	0	[98270] WC-025 G-07 S253216D, UPPER WOLFCAMP
30-025-45537	CO YETI 15 22 FEDERAL COM #054H	O	A-15-25S-32E	4323	CHEVRON U S A INC	N	0	[98270] WC-025 G-07 S253216D, UPPER WOLFCAMP
30-025-45671	SAVAGE 2 STATE COM #502H	O	3-02-25S-32E	7377	EOG RESOURCES INC	N	0	[97964] WC-025 G-07 S243225C, LWR BONE SPRIN
30-025-45672	SAVAGE 2 STATE COM #503H	O	3-02-25S-32E	7377	EOG RESOURCES INC	N	0	[97964] WC-025 G-07 S243225C, LWR BONE SPRIN
30-025-45673	SAVAGE 2 STATE COM #504H	O	3-02-25S-32E	7377	EOG RESOURCES INC	N	0	[97964] WC-025 G-07 S243225C, LWR BONE SPRIN
30-025-45699	CHINCOTEAGUE 8 5 FEDERAL COM #231H	O	E-08-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	0	[97899] WC-025 G-06 S253206M, BONE SPRING
30-025-45700	CHINCOTEAGUE 8 5 FEDERAL COM #232H	O	E-08-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	0	[97899] WC-025 G-06 S253206M, BONE SPRING
30-025-45701	CHINCOTEAGUE 8 5 FEDERAL COM #233H	O	G-08-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	0	[97899] WC-025 G-06 S253206M, BONE SPRING
30-025-45702	CHINCOTEAGUE 8 5 FEDERAL COM #234H	O	G-08-25S-32E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	0	[97899] WC-025 G-06 S253206M, BONE SPRING

Serial Number	Name	Percent Int.	Name 2	Percent Int	Name 3	Percent Int.	Name 4	Percent Int.
NMLC 0061873B	CHEVRON USA INC	0	DEVON ENERGY PROD CO LP	0	LEGACY RESERVES OPERATING LP	0		0
NMLC 0061863A	CHEVRON USA INC	50	DEVON ENERGY PROD CO LP	50		0		0
NMLC 0061873	CHEVRON USA INC	50	DEVON ENERGY PROD CO LP	50		0		0
NMLC 0062300	3-M ENERGY CO	0	CHEVRON USA INC	0	DEVON ENERGY	0	PROVIDENCE MINERALS LLC	0
NMLC 0071986	MAGNUM HUNTER PRODUCTION INC	100		0		0		0
NMLC 0061936A	CHEVRON USA INC	50	DEVON ENERGY PROD CO LP	50		0		0
NMLC 0061936	CHEVRON USA INC	0	DEVON ENERGY	0		0		0
NMLC 0061869	DEVON ENERGY PROD CO LP	100		0		0		0
NMNM 015317	EOG Y RESOURCES INC	100		0		0		0
NMNM 015912	MOBIL PROD TX & NM	100		0		0		0
NMNM 108969	EOG Y RESOURCES INC	40	EOG A RESOURCES INC	20	EOG M RESOURCES INC	20	OXY Y-1 COMPANY	20
NMNM 110835	OXY Y-1 COMPANY	33.34	EOG A RESOURCES INC	33.33	EOG M RESOURCES INC	33.33		0
NMNM 123518	EOG Y RESOURCES INC	40	EOG A RESOURCES INC	20	EOG M RESOURCES INC	20	OXY Y-1 COMPANY	20
NMNM 120907	COG PRODUCTION LLC	100		0		0		0
NMNM 113964	DEVON ENERGY PROD CO LP	100		0		0		0
NMNM 0054031	CHEVRON USA INC	0	DEVON ENERGY PROD CO LP	0		0		0

Unique Key	Lease Prefix	Lease Number	Lease Suffix	OGRID	OGRID Name
E050090001	E0	5009	1	217817	CONOCOPHILLIPS COMPANY
E097890012	E0	9789	12	317612	PADUCA PARTNERS LLC
V065450000	V0	6545	0	151323	PRIDE ENERGY COMPANY
VB11720001	VB	1172	1	6137	DEVON ENERGY PRODUCTION COMPANY, LP
VB11780001	VB	1178	1	25575	EOG Y RESOURCES, INC.
VB11860001	VB	1186	1	25575	EOG Y RESOURCES, INC.
VB11940001	VB	1194	1	25575	EOG Y RESOURCES, INC.

Table 3 - Produced Water Chemistry of Nearby Wells

API #	Sec.	Twn.	Ra.	Unit	Cty	Formation	Sample Date	pH	TDS [mg/L]	Resistivity [ohm-cm]	Sodium [mg/L]	Calcium [mg/L]	Iron [mg/L]	Magn. [mg/L]	Mang. [mg/L]	Chloride [mg/L]	Bicarbonate [mg/L]	Sulfate [mg/L]	CO2 [mg/L]
3002539948	6	25S	32E	M	Lea	AVALON LOWER	1/15/2015 0:00	6.2	122		0	0	0	0	0	0	122	0	200
3002540044	6	25S	32E	N	Lea	DELAWARE-BRUSHY CANYON	1/15/2015 0:00	6.3	239,818		74,876	14,394	59	2,437	3	145,508	122	0	300
3002540105	6	25S	32E	M	Lea	AVALON LOWER	1/15/2015 0:00	6.5	144,739		53,758	718	45	136	0	86,690	1,098	0	400
3002541829	4	25S	32E	D	Lea	BONE SPRING 2ND SAND	1/27/2015 0:00	6.3	140,235		42,818	6,442	41	785	0	87,998	244	0	200
3002542312	6	25S	32E	M	Lea	DELAWARE-BRUSHY CANYON	10/7/2015 0:00	6.5	239,860	0	74,030	13,591	49	2,238		147,360		640	300
3002508242	33	25S	32E	I	Lea		10/8/2015 0:00	6.1	226,822	0	57,077	20,082	19	2,954		144,326		529	300
3002540048	6	25S	32E	P	Lea	BONE SPRING 2ND SAND	12/18/2012 0:00	7.65	179,698		56,826	9,232	23	1,459	2	108,593	49	1,692	230
3002539948	6	25S	32E	M	Lea	AVALON LOWER	2/1/2013 0:00	7.4	165,244		62,859	567	17	107	0	97,097	2,281	1,177	40
3002539949	6	25S	32E	M	Lea	AVALON MIDDLE	2/1/2013 0:00	7.2	191,604		65,434	6,298	128	1,120	2	114,866	793	1,710	50
3002540105	6	25S	32E	M	Lea	AVALON LOWER	2/1/2013 0:00	7.1	164,202		62,428	501	25	96	1	96,323	2,306	1,264	30
3002540048	6	25S	32E	P	Lea	BONE SPRING 2ND SAND	1/23/2014 0:00	6.8	132,327		40,473	6,252	23	836	1	82,438	244	0	200
3002539949	6	25S	32E	M	Lea	AVALON MIDDLE	1/27/2014 0:00	6.3	197,185		62,422	6,809	218	1,344	4	123,168	549	0	500
3002540045	6	25S	32E	O	Lea	BONE SPRING 2ND SAND	1/29/2014 0:00	6.7	139,872		40,364	6,643	41	750	2	89,675	183	0	200
3002540046	6	25S	32E	O	Lea	DELAWARE-BRUSHY CANYON	1/29/2014 0:00	6.2	225,115		60,110	12,606	50	1,970	3	147,814	122	0	250
3002541829	4	25S	32E	D	Lea	BONE SPRING 2ND SAND	11/11/2014 0:00	6.5	139,733		42,191	7,003	78	913	2	87,281	244	0	150
3002540047	6	25S	32E	P	Lea	DELAWARE-BRUSHY CANYON	3/20/2015 0:00	6.7	252,093	0	78,472	17,592	35	2,984	3	150,157	149	0	300
3002540047	6	25S	32E	P	Lea	DELAWARE-BRUSHY CANYON	4/7/2015 0:00	6.7	248,632	0	71,715	15,832	44	2,761	3	155,537	122	0	400
3002541829	4	25S	32E	D	Lea	BONE SPRING 2ND SAND	4/7/2015 0:00	7.2	141,810	0	43,933	6,382	63	790	1	88,463	244	0	100
3002541996	10	25S	32E	M	Lea	BONE SPRING 2ND SAND	4/7/2015 0:00	6.5	207,155	0	68,477	4,042	41	1,745	2	126,763	122	0	200
3002542475	6	25S	32E	M	Lea	BONE SPRING 2ND SAND	8/31/2015 0:00	6.2	162,065	0	49,784	7,952	36	987		100,901		950	100
3002542476	6	25S	32E	N	Lea	BONE SPRING 2ND SAND	8/31/2015 0:00	6.58	151,459	0	46,371	7,185	36	876		94,431		1,112	200
3002508166	3	25S	32E	J	LEA				247,372							153,000	102	760	
3002508176	10	25S	32E	K	LEA	DELAWARE			246,555							152,600	112	939	
3002508182	15	25S	32E	M	LEA	DELAWARE			308,600										
3002508182	15	25S	32E	M	LEA	DELAWARE			309,990										
3002508196	16	25S	32E	I	LEA	DELAWARE			224,016							138,600	139	462	
3002508221	22	25S	32E	D	LEA	DELAWARE			276,839							170,500	198	552	
3002508226	27	25S	32E	D	LEA	DELAWARE			239,464							147,800	64	908	
3002539948	6	25S	32E	M	Lea	AVALON LOWER	12/8/2011 0:00	7	144,951		54,645	665	22	113	0	84,541	2,708	1,047	60
3002539949	6	25S	32E	M	Lea	AVALON MIDDLE	12/8/2011 0:00	7	145,593		55,405	440	25	71	0	84,840	2,806	1,092	60
3002540105	6	25S	32E	M	Lea	AVALON LOWER	12/8/2011 0:00	7	145,531		55,236	493	27	80	1	84,856	2,721	1,090	60

Table 4 - Chemistry of Produced Water from Devonian Formations

wellname	api	section	township	range	county	state	field	formation	depth	samplesou	sampledate	ph	specificgr	specificgr	tds_mg/L	resistivity	resistivity	conductiv	conductiv	sodium_m	calcium_m	magnesiu	chloride_i	bicarbona	sulfate_mg/L
CROSSROADS DEVONIAN UNIT #001		3002520735	16	10S	36E	LEA	NM	CROSSROA	DEVONIAN		DST				11788								4872	631	2111
CROSSROADS DEVONIAN UNIT #001		3002520735	16	10S	36E	LEA	NM	CROSSROA	DEVONIAN		DST				150646								88710	2811	2394
DEVONIAN STATE #005		3002504728	20	21S	36E	LEA	NM	EUMONT	ARTESIA		UNKNOWN				82730								48060	1349	1455
WEST DOLLARHIDE DEVONIAN UNIT #104		3002512297	32	24S	38E	Lea	NM		ELLENBURGER		FLOW LINE	4/1/1965 0:00	5.8	1.039	77		0.155	65	64340	64	16300	3000	195	30200	183	980
WEST DOLLARHIDE DEVONIAN UNIT #104		3002512297	32	24S	38E	LEA	NM	DOLLARHID	DEVONIAN		WELLHEAD				50858								30200	183	980
WEST DOLLARHIDE DEVONIAN UNIT #110		3002512386	5	25S	38E	LEA	NM	DOLLARHID	DEVONIAN		UNKNOWN				56776										
CROSSROADS SILURO DEVONIAN UNIT #104		3002503632	34	09S	36E	LEA	NM	SWD	DEVONIAN		UNKNOWN				298844								184000	244	200
CROSSROADS SILURO DEVONIAN UNIT #304		3002503610	27	09S	36E	LEA	NM	CROSSROA	PENNSYLVANIAN		SEPARATOI	5/27/1971 0:00	7.5		57475								33700	375	1470
CROSSROADS SILURO DEVONIAN UNIT #202		3002503612	27	09S	36E	LEA	NM	CROSSROA	SILURO-DEVONIAN		HEATER TR	5/27/1971 0:00	7.3		83197								50100	287	1400

OSE Well Logs - NO WATER SUPPLY WELLS

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

MAY 29 2019 AM10:42

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 28, 2019

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

RE: Solaris Water Midstream Jupiter Fed SWD #1
UL M Section 9 T25S R32E, Lea County

Dear Mr. Goetze:

On behalf of Solaris Water Midstream LLC, R.T. Hicks Consultants is providing data and an opinion regarding the probability that injection of wastewater in the above referenced well at the proposed rates will cause seismic events of sufficient magnitude to create damage. It is our understanding that OCD is interested in such an opinion as part of the SWD approval process. We elected to provide this opinion as a separate submission as the C-108 does not specifically require such an opinion.

We relied upon the following data to develop our opinion

- State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity, Jens-Erik Lund Snee and Mark D. Zoback, The Leading Edge, February 2018[1]
- Plate 5, which is reproduced from the Snee and Zoback publication, which uses the following references
    - Crone, A. J., and R. L. Wheeler, 2000, Data for Quaternary faults, liquefaction features, and possible tectonic features in the Cen- tral and Eastern United States, east of the Rocky Mountain front; U.S. Geological Survey Open-File Report.
    - Ewing, T. E., R. T. Budnik, J. T. Ames, and D. M. Ridner, 1990, Tectonic map of Texas: Bureau of Economic Geology, Univer- sity of Texas at Austin.
    - Green, G. N., and G. E. Jones, 1997, e digital geologic map of New Mexico in ARC/INFO format: U.S. Geological Survey Open-File Report.
    - Ruppel, S. C., R. H. Jones, C. L. Breton, and J. A. Kane, 2005, Prep- aration of maps depicting geothermal gradient and Precambrian structure in the Permian Basin: USGS Order no. 04CRSA0834 and Requisition no. 04CRPR01474.
    - NMOCD database of oil and gas wells
- Plate 6, which shows the distribution of active and new SWD wells in the area of the proposed Solaris SWD well

Plate 5 reproduces Figure 3 of the 2018 publication of Snee and Zoback and shows

1. Fault traces based upon the references provided above for which Dr. Snee and Dr. Zoback provide a value of the fault slip potential (FSP)

[1] https://scits.stanford.edu/sites/default/files/3702_tss_lundsnee_v2.pdf

2. Areas of documented seismic activity, such as the Dagger Draw area and a magnitude 2.0-2.9 earthquake that occurred between 1970-2004 about 7-miles east of the proposed Jupiter Fed SWD #1. A slightly larger magnitude seismic event is reported about 12 miles northwest of the Jupiter #1 well location.
3. Although Plate 5 does not show faults that may be identified in confidential seismic data owned by oil and gas operators, the mapped fault that is closest to the Jupiter Fed SWD #1 (about 10 miles to the east) exhibits a low FSP (less than 5%) based upon the modeling and analysis of Snee and Zoback referenced above
4. Other mapped faults in southern Lea County shown on Plate 5 also show a low FSP, except for part of southwest-northeast trending fault about 34 miles north-northwest of the Jupiter Fed SWD #1 well that has a FSP of about 25 – 33% at the northeast end.

Plate 6 reproduces the major elements of Plate 5 in the inset map and also shows active and new Devonian SWDs. The OCD database shows no more than 12 active or new Devonian SWDs within a 6-mile radius, which translates into an average density of one SWD for every 9 square miles.

We contend that the data permit conclusion that unmapped faults (which may be located by confidential seismic data that Solaris does not possess) near the Jupiter Fed SWD #1 would be dominantly north-south normal faults, as is common in Lea County. The data also permit a conclusion that unmapped faults near the Jupiter Fed SWD #1 are also most likely to exhibit a low FSP, like the mapped faults shown on Plate 5.

Given the current density of Devonian SWDs (planned/new and active) near the proposed Jupiter Fed SWD #1 well and the high likelihood that any unmapped faults in the area would exhibit a low FSP, the probability that injection into the Jupiter Fed SWD #1 would cause an increase in pore pressure to trigger a seismic event of sufficient magnitude to cause damage is very low.

The users of this letter should recognize the uncertainties of using seismic maps of the Permian Basin to determine probability that injection of wastewater into a single SWD well could cause seismic events of sufficient magnitude to cause damage.

Sincerely,
R.T. Hicks Consultants

Randall T. Hicks
Principal

Copy: Solaris Water Midstream LLC

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May 28, 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 Jupiter Fed 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 9, Township 25 South, Range 32 East in Lea County, New Mexico.

The published notice states that the interval will be from 17,066 feet to 18,541 feet into the Devonian and Fusselman Formations.

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 Jupiter Fed SWD No. 1 will be located 1388 feet from the North line and 275 feet from the East line, Section 9, 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 17,066 feet to 18,541 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 26.5 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

3-M ENERGY CORP.
Re: Jupiter Fed SWD #1
BOX 3986
SAN ANGELO, TX 76902

BASIN PROPERTIES RANCHES LLC
Re: Jupiter Fed SWD #1
18 DESTA DRIVE
MIDLAND, TX 79705

Bureau of Land Management
Re: Jupiter Fed SWD #1
620 E. Greene Street
Carlsbad, NM 88220-6292

CHEVRON U S A INC
Re: Jupiter Fed SWD #1
6301 DEAUVILLE BLVD
MIDLAND, TX 79706

CIMAREX ENERGY CO.
Re: Jupiter Fed SWD #1
600 N. Marienfeld Street
Suite 600
Midland, TX 79701

COG PRODUCTION LLC
Re: Jupiter Fed SWD #1
ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TX 79701

CONOCOPHILLIPS COMPANY
Re: Jupiter Fed SWD #1
P. O. BOX 7500
BARTLESVILLE, OK 74005

DEVON ENERGY PROD. COMPANY
Re: Jupiter Fed SWD #1
333 West Sheridan Ave.
Oklahoma City, OK 73102

EOG A RESOURCES, INC.
Re: Jupiter Fed SWD #1
105 S 4th Street
Artesia, NM 88210

EOG M RESOURCES, INC.
Re: Jupiter Fed SWD #1
PO BOX 840
ARTESIA, NM 88211

EOG RESOURCES INC
Re: Jupiter Fed SWD #1
P.O. Box 2267
Midland, TX 79702

EOG Y RESOURCES, INC.
Re: Jupiter Fed SWD #1
104 S 4TH ST
ARTESIA, NM 88210

H L BROWN OPERATING, LLC
Re: Jupiter Fed SWD #1
PO BOX 2237
MIDLAND, TX 79702

LEGACY RESERVES OPERATING LP
Re: Jupiter Fed SWD #1
303 W. WALL ST
STE. 1400
MIDLAND, TX 79701-5134

LEGACY RESERVES OPERATING, LP
Re: Jupiter Fed SWD #1
P. O. BOX 10848
MIDLAND, TX 79702

Magnum Hunter Production Inc
Re: Jupiter Fed SWD #1
202 S. CHEYENNE AVE.
SUITE 1000
TULSA, OK 74103

MESQUITE SWD, INC
Re: Jupiter Fed SWD #1
PO BOX 1479
CARLSBAD, NM 88221

MOBILE PROD TEX & NM INC/MW PET COR
Re: Jupiter Fed SWD #1
2000 POST OAK BLVD STE 100
HOUSTON, TX 77056

New Mexico State Land Office
Re: Jupiter Fed SWD #1
310 Old Santa Fe Trail
Santa Fe, NM 87501

OXY USA INC
Re: Jupiter Fed SWD #1
PO BOX 4294
HOUSTON, TX 77210

OXY Y-1 COMPANY
Re: Jupiter Fed SWD #1
PO BOX 27570
HOUSTON, TX 77227

PADUCA PARTNERS LLC
Re: Jupiter Fed SWD #1
6400 S. FIDDLER'S GREEN CIRCLE
SUITE 2100
GREENWOOD VILLAGE, CO 80111

POGO PRODUCING CO
Re: Jupiter Fed SWD #1
PO BOX 10340
MIDLAND, TX 79702-7340

POGO PRODUCING COMPANY LLC
Re: Jupiter Fed SWD #1
300 MARIENFELD, SUITE 600
MIDLAND, TX 79701

PRIDE ENERGY COMPANY
Re: Jupiter Fed SWD #1
P.O. BOX 701602
TULSA, OK 74170-1602

PROVIDENCE MINERALS, LLC
Re: Jupiter Fed SWD #1
16400 NORTH DALLAS PARKWAY
SUITE 400
DALLAS, TX 75248

SAHARA OPERATING CO
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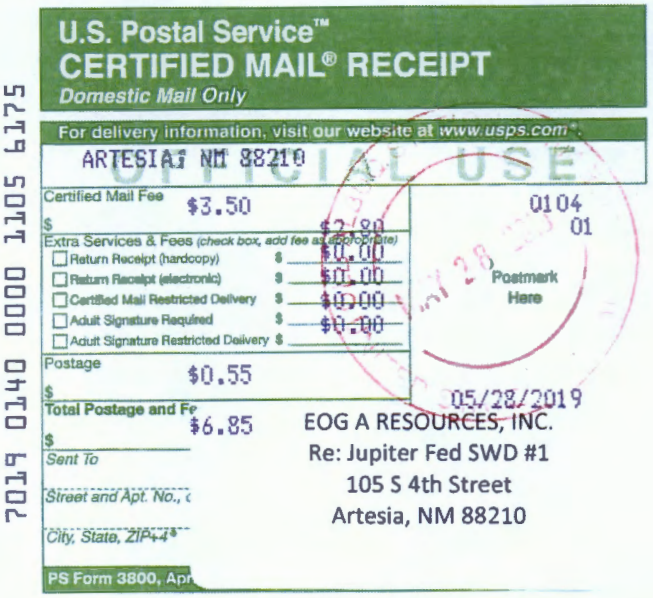

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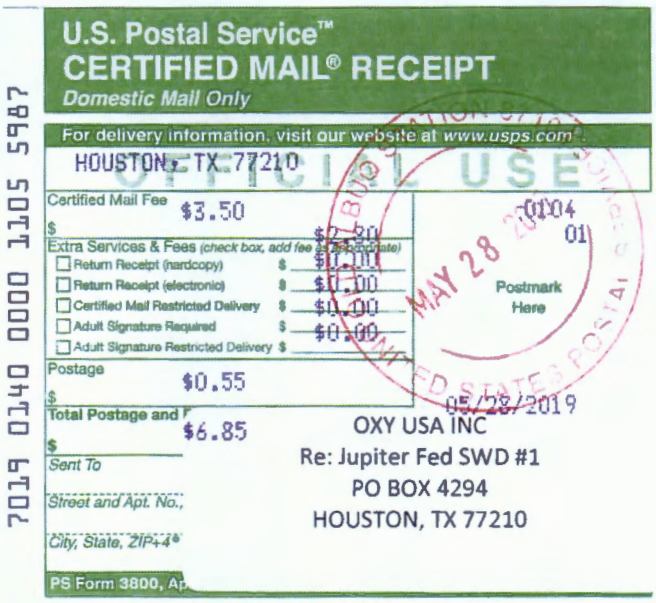

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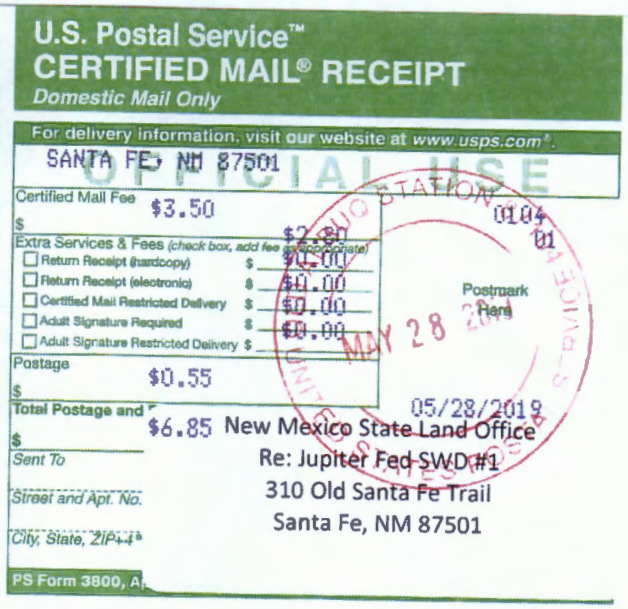

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Postage	$0.55
Total Postage and	$6.85

0104 01

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MAY 28 2019

05/28/2019

Sent To: PRIDE ENERGY COMPANY
Re: Jupiter Fed SWD #1
Street and Apt. No.: P.O. BOX 701602
City, State, ZIP+4®: TULSA, OK 74170-1602

PS Form 3800, Ap

7019 0140 0000 1105 5994

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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 F	$6.85

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Sent To: OXY Y-1 COMPANY
Re: Jupiter Fed SWD #1
Street and Apt. No.: PO BOX 27570
City, State, ZIP+4®: HOUSTON, TX 77227

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7019 0140 0000 1105 6045

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☐ Return Receipt (hardcopy)	$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 F	$6.85

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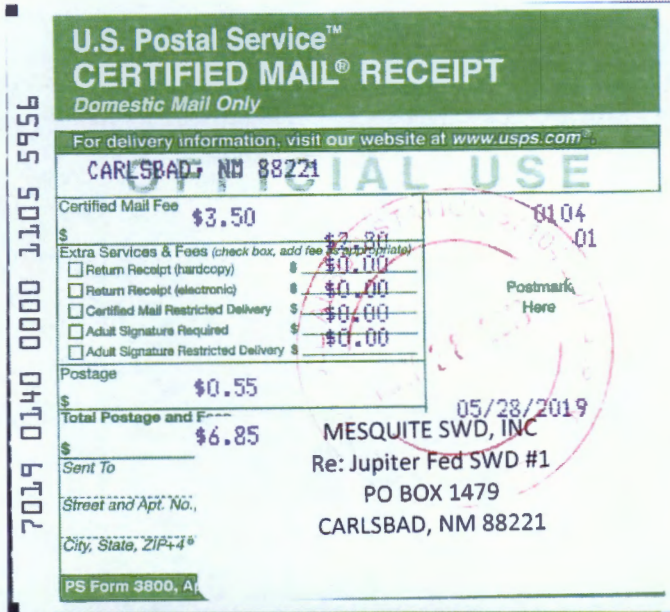
05/28/2019

Sent To: PROVIDENCE MINERALS, LLC
Re: Jupiter Fed SWD #1
Street and Apt. No.: 16400 NORTH DALLAS PARKWAY
SUITE 400
City, State, ZIP+4®: DALLAS, TX 75248

PS Form 3800, Ap



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Postage $0.55
Total Postage and Fees $6.85

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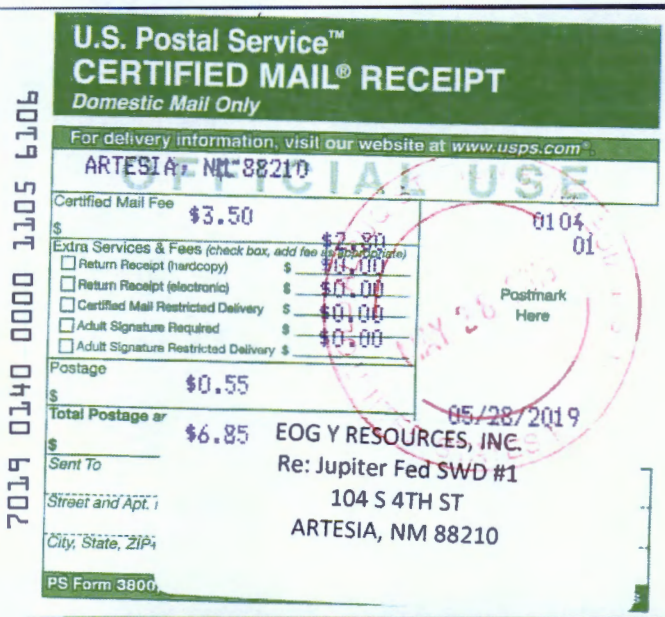
05/28/2019

Sent To
Street and Apt. No.,
City, State, ZIP+4®

MESQUITE SWD, INC
Re: Jupiter Fed SWD #1
PO BOX 1479
CARLSBAD, NM 88221

PS Form 3800, A

7019 0140 0000 1105 5956



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ARTESIA, NM 88210

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- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.55
Total Postage and Fees $6.85

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Sent To
Street and Apt. No.,
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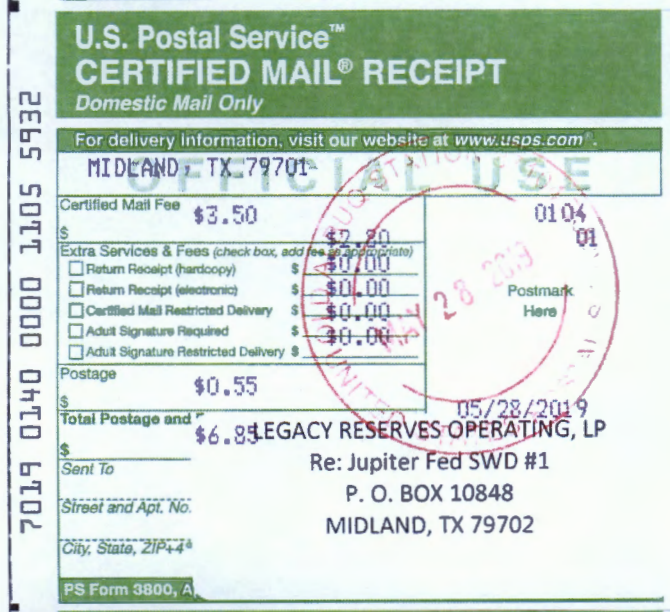
EOG Y RESOURCES, INC.
Re: Jupiter Fed SWD #1
104 S 4TH ST
ARTESIA, NM 88210

PS Form 3800,

7019 0140 0000 1105 6106



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MIDLAND, TX 79701

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Postage $0.55
Total Postage and Fees $6.85

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Sent To
Street and Apt. No.
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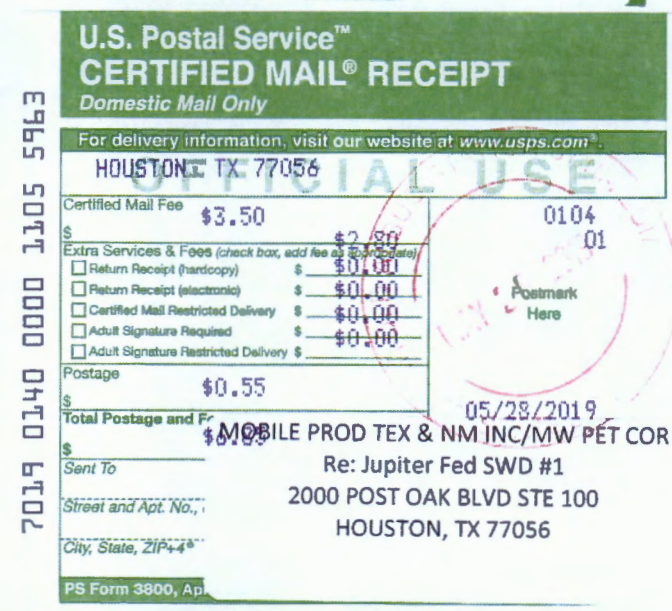
LEGACY RESERVES OPERATING, LP
Re: Jupiter Fed SWD #1
P. O. BOX 10848
MIDLAND, TX 79702

PS Form 3800, A

7019 0140 0000 1105 5932



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- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.55
Total Postage and Fees $6.85

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Street and Apt. No.,
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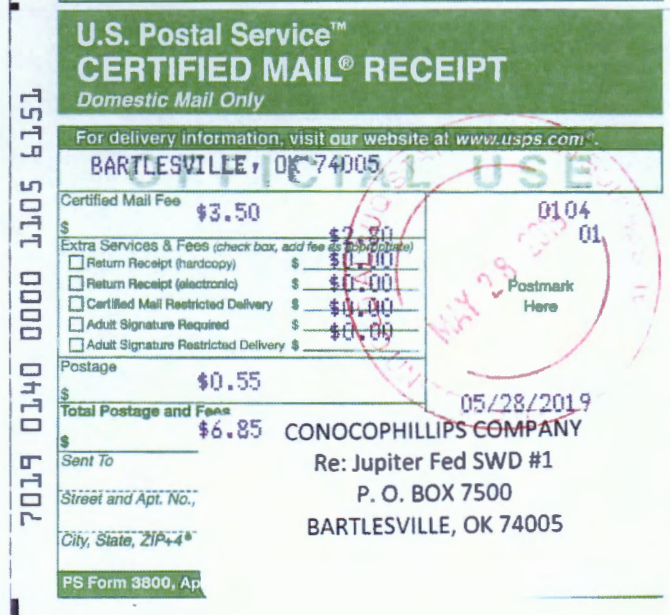
MOBILE PROD TEX & NM INC/MW PET COR
Re: Jupiter Fed SWD #1
2000 POST OAK BLVD STE 100
HOUSTON, TX 77056

PS Form 3800, Ap

7019 0140 0000 1105 5963



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BARTLESVILLE, OK 74005

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- Return Receipt (hardcopy) $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

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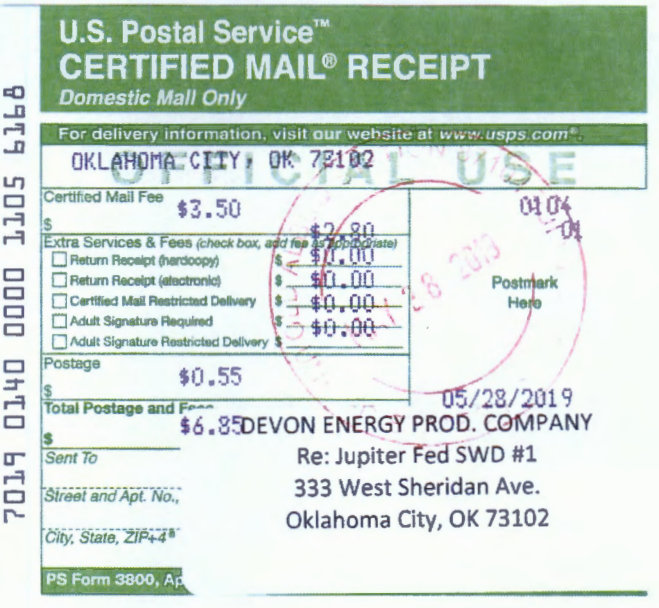
05/28/2019

Sent To
Street and Apt. No.,
City, State, ZIP+4®

CONOCOPHILLIPS COMPANY
Re: Jupiter Fed SWD #1
P. O. BOX 7500
BARTLESVILLE, OK 74005

PS Form 3800, Ap

7019 0140 0000 1105 6151



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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
Street and Apt. No.,
City, State, ZIP+4®

DEVON ENERGY PROD. COMPANY
Re: Jupiter Fed SWD #1
333 West Sheridan Ave.
Oklahoma City, OK 73102

PS Form 3800, Ap

7019 0140 0000 1105 6168

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Sent To
POGO PRODUCING COMPANY LLC
Re: Jupiter Fed SWD #1
Street and Apt. No., 300 MARIENFELD, SUITE 600
City, State, ZIP+4® MIDLAND, TX 79701

PS Form 3800, Ap

7019 0140 0000 1105 6021

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- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

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Total Postage and F $6.85

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Sent To
H L BROWN OPERATING, LLC
Re: Jupiter Fed SWD #1
Street and Apt. No., PO BOX 2237
City, State, ZIP+4® MIDLAND, TX 79702

PS Form 3800, Ap

7019 0140 0000 1105 6205

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SAN ANGELO, TX 76902

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- Return Receipt (hardcopy) $2.80 $0.00
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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
3-M ENERGY CORP.
Re: Jupiter Fed SWD #1
Street and Apt. Ni BOX 3986
City, State, ZIP+4 SAN ANGELO, TX 76902

PS Form 3800,

7019 0140 0000 1105 6113

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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 Fr $6.85

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Sent To
LEGACY RESERVES OPERATING LP
Re: Jupiter Fed SWD #1
Street and Apt. No., 303 W. WALL ST
City, State, ZIP+4® STE. 1400
MIDLAND, TX 79701-5134

PS Form 3800, Ap

7019 0140 0000 1105 6212

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MIDLAND, TX 79705

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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 F $6.85

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Sent To
BASIN PROPERTIES RANCHES LLC
Re: Jupiter Fed SWD #1
Street and Apt. No., 18 DESTA DRIVE
City, State, ZIP+4® MIDLAND, TX 79705

PS Form 3800, Ap

7019 0140 0000 1105 6120

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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
EOG M RESOURCES, INC.
Re: Jupiter Fed SWD #1
Street and Apt. No., PO BOX 840
City, State, ZIP+4® ARTESIA, NM 88211

PS Form 3800, Ap

7019 0140 0000 1105 6182

7019 0140 0000 1105 5949

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TULSA, OK 74103

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☐ Return Receipt (hardcopy)	$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 F	$6.85

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Sent To: Magnum Hunter Production Inc
Re: Jupiter Fed SWD #1
Street and Apt. No.: 202 S. CHEYENNE AVE.
SUITE 1000
City, State, ZIP+4®: TULSA, OK 74103

PS Form 3800, Ap

7019 0140 0000 1105 6144

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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 Fe	$6.85

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Sent To: CIMAREX ENERGY CO.
Re: Jupiter Fed SWD #1
Street and Apt. No.: 600 N. Marienfeld Street
Suite 600
City, State, ZIP+4®: Midland, TX 79701

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☐ Return Receipt (hardcopy)	$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 Fe	$6.85

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MAY 28 2019

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Sent To: CHEVRON U S A INC
Re: Jupiter Fed SWD #1
Street and Apt. No.: 6301 DEAUVILLE BLVD
City, State, ZIP+4®: MIDLAND, TX 79706

PS Form 3800, Apr

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 28, 2019

Hobbs News Sun
201 N. Thorp
P.O. Box 850
Hobbs, N.M. 88240

LEGAL NOTICE

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 Jupiter Fed SWD No. 1 will be located 1388' from the North line and 275' from the East line, Section 9, 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 17,066 feet to 18,541' 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 26.5 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

Randall Hicks
Principal

McMillan, Michael, EMNRD

From: David Hamilton <david@rthicksconsult.com>
Sent: Thursday, June 13, 2019 2:04 PM
To: McMillan, Michael, EMNRD
Subject: [EXT] Affidavit of Publication for c 108 Application Solaris Jupiter SWD
Attachments: AffOfPubSolarisJupiter.pdf

Michael,
We will have information regarding the points below shortly.

- Tract map of affected parties within 1-mile AOR of the proposed SWD Well
- Clarification of surface owner

Does the NMSLO a mineral interest owner?

My apologies if you have gotten several of these. They keep bouncing back to me. It now appears that a capital M has been a problem.

David Hamilton
RT Hicks Consultants
Office: 505-266-5004

McMillan, Michael, EMNRD

From: David Hamilton <david@rthicksconsult.com>
Sent: Thursday, June 13, 2019 2:04 PM
To: McMillan, Michael, EMNRD
Subject: [EXT] Affidavit of Publication for c 108 Application Solaris Jupiter SWD
Attachments: AffOfPubSolarisJupiter.pdf

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- Clarification of surface owner

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My apologies if you have gotten several of these. They keep bouncing back to me. It now appears that a capital M has been a problem.

David Hamilton
RT Hicks Consultants
Office: 505-266-5004

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Todd Bailey, Editor of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
June 02, 2019
and ending with the issue dated
June 02, 2019.

Editor

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

LEGALS

LEGAL NOTICE
JUNE 2, 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 Jupiter Fed SWD No. 1 will be located 1388' from the North line and 275' from the East line, Section 9, 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 17,066 feet to 18,541' 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 26.5 miles southeast of Loving, New Mexico.

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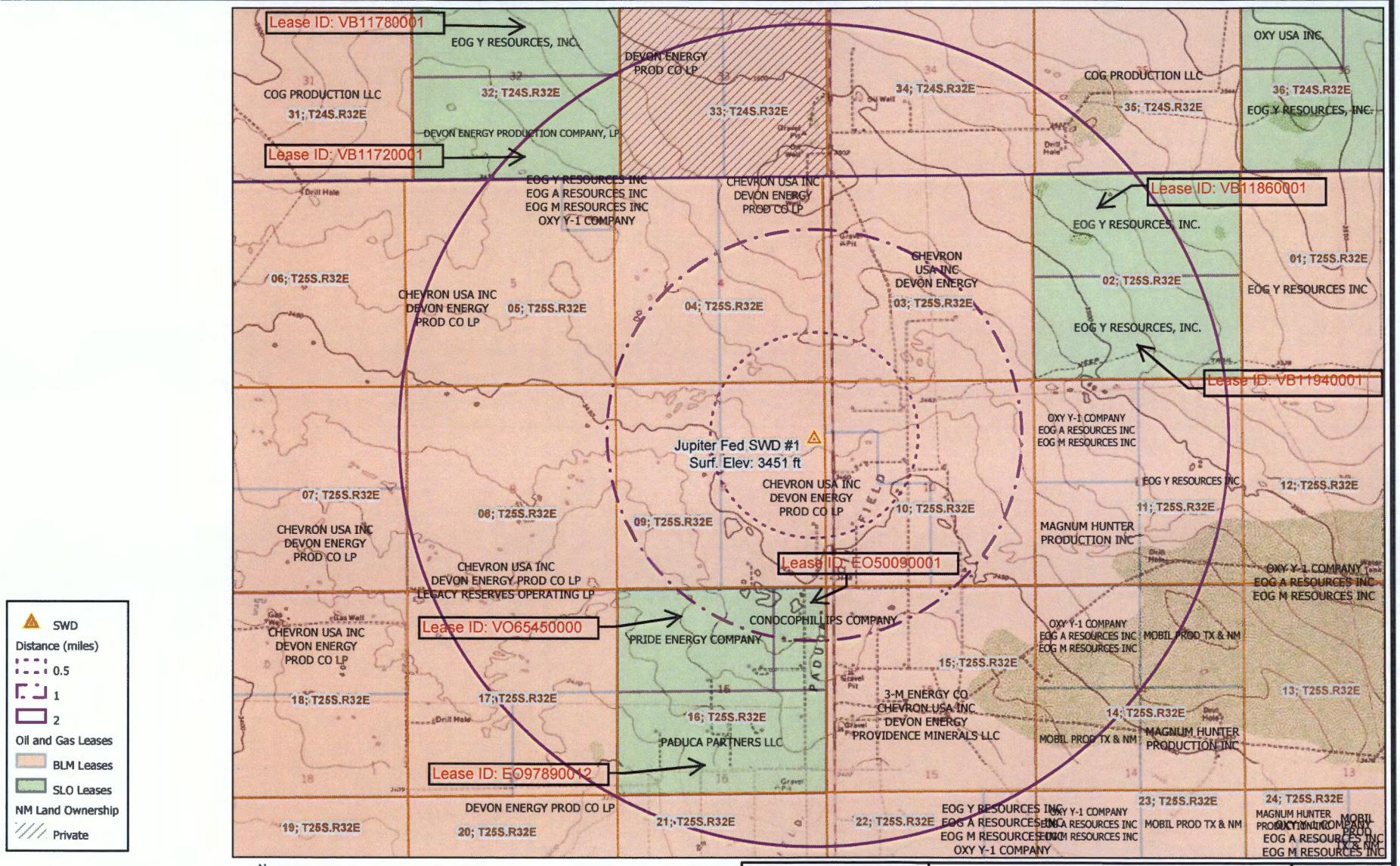
Additional information can be obtained by contacting Mr. Randall Hicks, agent for Solaris Water Midstream, at 505-238-9515.

Sincerely,
R.T. Hicks Consultants
Randall Hicks
Principal
#34232

67115764 00229143

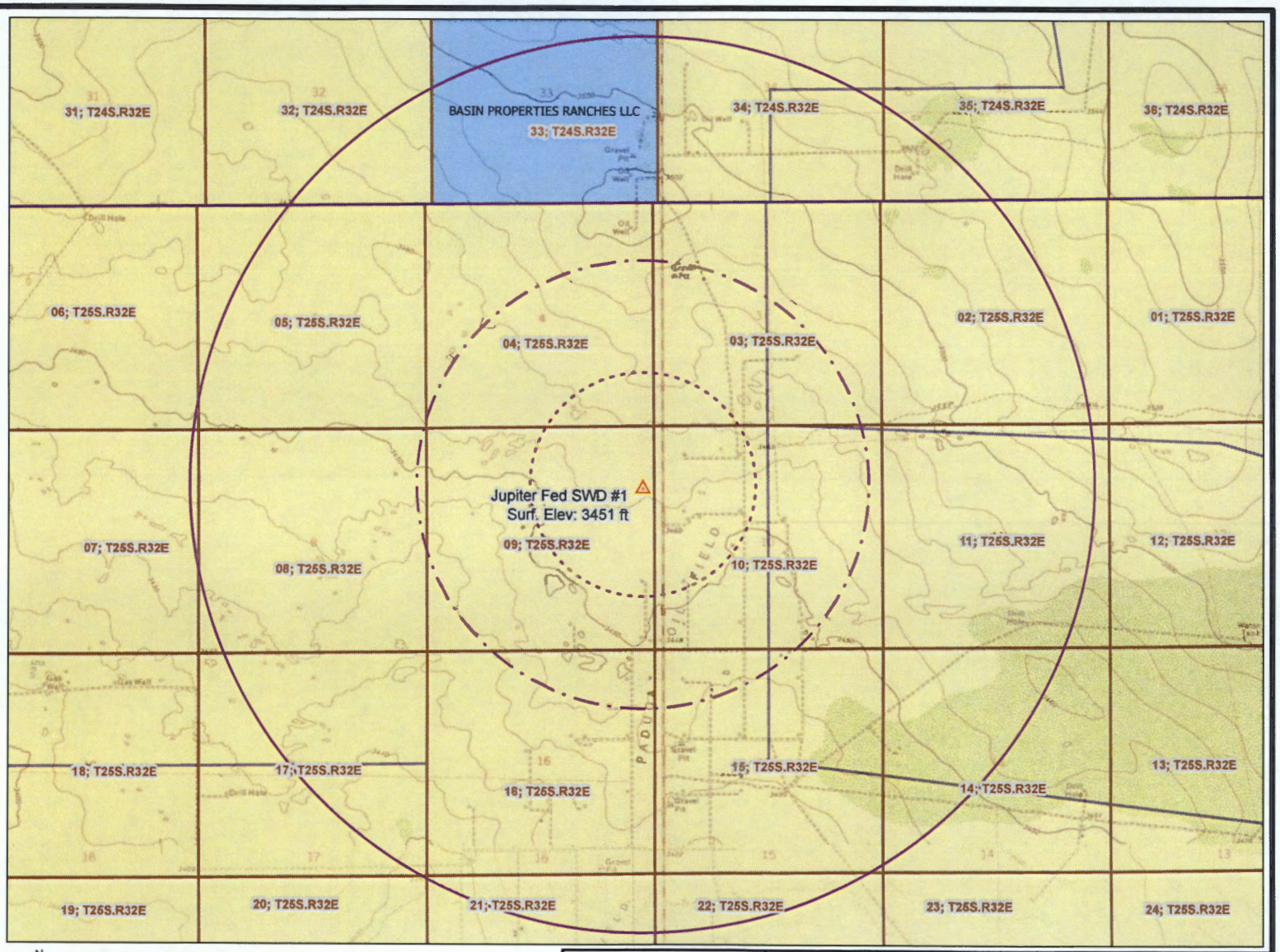
RANDALL HICKS
R.T. HICKS CONSULTANTS, LTD
901 RIO GRANDE BLVD NM
SUITE F-142
ALBUQUERQUE, NM 87104

M:\Solaris\SWD\Jupiter\arcGISpro\arcGISpro.aprx



R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Federal and State Oil and Gas Leases within 2-Miles Solaris Water Midstream Jupiter Fed SWD #1	Plate 2a May 2019

M:\Solaris\SWD\Jupiter\arcGISpro\arcGISpro.aprx



R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Surface Owners within 2-Miles Solaris Water Midstream Jupiter Fed SWD #1	Plate 2b May 2019

Serial Number	Name	Percent Int.	Name 2	Percent Int	Name 3	Percent Int.	Name 4	Percent Int.
NMLC 0061873B	CHEVRON USA INC	0	DEVON ENERGY PROD CO LP	0	LEGACY RESERVES OPERATING LP	0		0
NMLC 0061863A	CHEVRON USA INC	50	DEVON ENERGY PROD CO LP	50		0		0
NMLC 0061873	CHEVRON USA INC	50	DEVON ENERGY PROD CO LP	50		0		0
NMLC 0062300	3-M ENERGY CO	0	CHEVRON USA INC	0	DEVON ENERGY	0	PROVIDENCE MINERALS LLC	0
NMLC 0071986	MAGNUM HUNTER PRODUCTION INC	100		0		0		0
NMLC 0061936A	CHEVRON USA INC	50	DEVON ENERGY PROD CO LP	50		0		0
NMLC 0061936	CHEVRON USA INC	0	DEVON ENERGY	0		0		0
NMLC 0061869	DEVON ENERGY PROD CO LP	100		0		0		0
NMNM 015317	EOG Y RESOURCES INC	100		0		0		0
NMNM 015912	MOBIL PROD TX & NM	100		0		0		0
NMNM 108969	EOG Y RESOURCES INC	40	EOG A RESOURCES INC	20	EOG M RESOURCES INC	20	OXY Y-1 COMPANY	20
NMNM 110835	OXY Y-1 COMPANY	33.34	EOG A RESOURCES INC	33.33	EOG M RESOURCES INC	33.33		0
NMNM 123518	EOG Y RESOURCES INC	40	EOG A RESOURCES INC	20	EOG M RESOURCES INC	20	OXY Y-1 COMPANY	20
NMNM 120907	COG PRODUCTION LLC	100		0		0		0
NMNM 113964	DEVON ENERGY PROD CO LP	100		0		0		0
NMNM 0054031	CHEVRON USA INC	0	DEVON ENERGY PROD CO LP	0		0		0

Unique Key	Lease Prefix	Lease Number	Lease Suffix	OGRID	OGRID Name
E050090001	E0	5009	1	217817	CONOCOPHILLIPS COMPANY
E097890012	E0	9789	12	317612	PADUCA PARTNERS LLC
V065450000	V0	6545	0	151323	PRIDE ENERGY COMPANY
VB11720001	VB	1172	1	6137	DEVON ENERGY PRODUCTION COMPANY, LP
VB11780001	VB	1178	1	25575	EOG Y RESOURCES, INC.
VB11860001	VB	1186	1	25575	EOG Y RESOURCES, INC.
VB11940001	VB	1194	1	25575	EOG Y RESOURCES, INC.

PARCELCODE	Name	TRIADIC	Acres	Twn.	Ra.	Sect.	Address	City	State	Zip
		STATE - Mark T McCloy	644.364	25	32	02				
		STATE - Jeff Robbins	644.1447188	25	32	16				
4000518310007	BASIN PROPERTIES RANCHES LLC	51831	640	24	32	33	18 DESTA DRIVE	MIDLAND	TX	79705
		USA - Brininstool XL Ranch	614.832	25	32	11				
		USA - Mark T McCloy	28.596	25	32	11				
		USA - Mark T McCloy	321.744	25	32	03				
		USA - Diamond and Half Inc	2.791	25	32	11				
		USA - Brininstool XL Ranch	319.556	25	32	10				
		USA - Jeff Robbins	643.325	25	32	09				
		USA - Jeff Robbins	322.515	25	32	10				
		USA - Jeff Robbins	643.241	25	32	04				
		USA - Jeff Robbins	321.283	25	32	03				
		USA - H and K Farms Inc	644.123	25	32	07				
		USA - H and K Farms Inc	643.789	25	32	08				
		USA - H and K Farms Inc	644.54	25	32	06				
		USA - H and K Farms Inc	645.047	25	32	05				
		USA - H and K Farms Inc	322.568	25	32	17				
		USA - Jesse Baker	644.616	25	32	20				
		USA - Jesse Baker	322.39	25	32	17				
		USA - Jesse Baker	644.725	25	32	21				
		USA - Jeff Robbins	472.664	25	32	15				
		USA - Jeff Robbins	645.293	25	32	22				
		USA - Brininstool XL Ranch	171.923	25	32	15				
		USA - Brininstool XL Ranch	407.515	25	32	14				
		USA - Jeff Robbins	237.318	25	32	14				
		USA - Limestone Livestock LLC	640	24	32	32				
		USA - Mark T McCloy	397.592	24	32	35				
		USA - Jeff Robbins	480.212	24	32	34				
		USA - Mark T McCloy	160	25	32	34				

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 1a identifies all OCD listed wells and API numbers and shows circles with radii of 0.5, 1.0, and 2.0 miles. Note that where numerous wells are closely-spaced, the API number may not be labeled for clarity. New wells, active wells, plugged wells, and canceled wells have color-coded symbols. Plate 1b shows only new and active wells and circles with radii of 0.5 and 1.0 miles.

Table 1 lists all of the wells shown on Plate 1a within the circle having a 2.0 mile radius.

Plate 2a shows BLM and SLO oil and gas leases and leaseholder names within the 2-mile area of review. Grey lines show lease boundaries within sections that contain multiple leases. Private land ownership is shown by diagonal line shading. For the SLO oil and gas leases, the Lease ID number is shown in a callout box.

Plate 2b shows surface land ownership as either public land (City, State, and Federal are all shown in yellow) or private land (shown in blue).

The Federal Government through the BLM is the surface owner of the proposed SWD location.

Tabular listing of all mapped leases and ownership is presented as:

Table 2a	BLM leases
Table 2b	State of NM leases
Table 2c	Surface Land Ownership

7019 0140 0000 1105 5994

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9590 9402 4745 8344 2526 75

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05/28/2019
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MAY 28 2019
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Re: Jupiter Fed SWD #1
333 West Sheridan Ave.
Oklahoma City, OK 73102

9590 9402 4745 8344 2525 69

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X David Carrillo ☐ Agent ☐ Addressee

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Postage	$0.55
Total Postage and Fees	$6.85

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Re: Jupiter Fed SWD #1
303 W. WALL ST
STE. 1400
MIDLAND, TX 79701-5134

9590 9402 4745 8344 2526 44

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5/31

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Postage	$0.55
Total Postage and Fees	$6.85

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Street and Apt. No.: Re: Jupiter Fed SWD #1
City, State, ZIP+4®: 303 W. WALL ST STE. 1400 MIDLAND, TX 79701-5134

05/28/2019
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1. Article Addressed to:

EOG A RESOURCES, INC.
Re: Jupiter Fed SWD #1
105 S 4th Street
Artesia, NM 88210

9590 9402 4745 8344 2525 38

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Nancy H Franco ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* NANCY H. FRANCO
C. Date of Delivery MAY 3 1 2019

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

104 S. 4th

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Postage	$0.55
Total Postage and Fees	$6.85
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Street and Apt. No., or PO Box No.	Re: Jupiter Fed SWD #1 105 S 4th Street
City, State, ZIP+4®	Artesia, NM 88210

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1. Article Addressed to:

EOG Y RESOURCES, INC.
Re: Jupiter Fed SWD #1
104 S 4TH ST
ARTESIA, NM 88210

9590 9402 4745 8344 2525 52

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Nancy H Franco ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* NANCY H. FRANCO
C. Date of Delivery MAY 3 1 2019

D. Is delivery address different from item 1? ☐ Yes
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City, State, ZIP+4®	ARTESIA, NM 88210

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CHEVRON U S A INC
Re: Jupiter Fed SWD #1
6301 DEAUVILLE BLVD
MIDLAND, TX 79706

9590 9402 4745 8344 2526 13

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A. Signature
X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Deana Tadlock
C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
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Postage	$0.55
Total Postage and Fees	$6.85
Sent To	CHEVRON U S A INC
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City, State, ZIP+4®	MIDLAND, TX 79706

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LEGACY RESERVES OPERATING, LP
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P. O. BOX 10848
MIDLAND, TX 79702

9590 9402 4745 8344 2526 37

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A. Signature
X [signature] ☐ Agent ☐ Addressee

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MAY 28 2019
05/28/2019

EOG M RESOURCES, INC.
Re: Jupiter Fed SWD #1
PO BOX 840
ARTESIA, NM 88211

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901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104

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87104
MAY 28, 19
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$6.85
R2305M148509-01

EOG M RESOURCES, INC.
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