

Initial Application Part I

Received: 07/22/2019

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

RECEIVED: 07/22/2019	REVIEWER:	TYPE: SWD	APP NO: pMAM1920731682
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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: Cordell Fed SWD No. 1 _____ **API:** _____
Pool: SWD; Devonian- Silurian _____ **Pool Code: 97869** _____

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

SWD-2210

- 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

<u>FOR OCD ONLY</u>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	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.

July 22, 2019

Ramona Hovey – Agent of Solaris Water Midstream

_____ Date

Print or Type Name

(512) 600-1777 _____

Phone Number

Ramona K Hovey _____

ramona@lonquist.com _____

Signature

e-mail Address

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

July 19, 2019

New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division District IV
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
(505) 476-3440

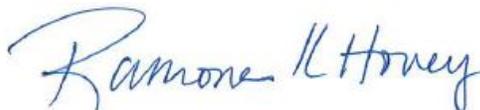
RE: CORDELL FED SWD NO. 1 AUTHORIZATION TO INJECT

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Solaris Water Midstream, LLC's ("Solaris") Cordell Fed SWD No. 1. In addition, Forms C-101 and C-102 have also been included with this package. Notices have been sent to offset operators, leaseholders and the surface owner. Proof of notice will be sent to the OCD upon receipt.

Any questions should be directed towards Solaris Water Midstream, LLC's agent Lonquist & Co., LLC.

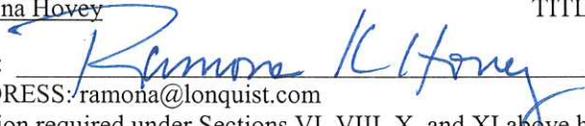
Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: Solaris Water Midstream, LLC
ADDRESS: 701 Tradewinds Blvd., Suite C, Midland, TX 79706
CONTACT PARTY: Whitney McKee PHONE: 432-203-9020
- 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 _____ 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: Ramona Hovey TITLE: Consulting Engineer – Agent for Solaris Water Midstream
SIGNATURE:  DATE: 7/22/2019
E-MAIL ADDRESS: ramona@lonquist.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: _____

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.

INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLC

WELL NAME & NUMBER: Cordell Fed SWD No. 1

WELL LOCATION: 300' FNL 275' FWL
FOOTAGE LOCATION

D
UNIT LETTER

35
SECTION

26S
TOWNSHIP

30E
RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 18.125"

Casing Size: 16.00"

Cemented with: 678 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Intermediate Casing

Hole Size: 14.750"

Casing Size: 13.375"

Cemented with: 716 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Production Casing

Hole Size: 12.250"

Casing Size: 9.625"

Cemented with: 4606 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Liner

Hole Size: 8.500"

Casing Size: 7.625"

Cemented with: 375 sx.

or _____ ft³

Top of Cement: 11.850'

Method Determined: calculation

Total Depth: 18.134'

Injection Interval

16,334 feet to 18,134 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' - 11,650' and 5", 18 lb/ft, HCL-80, LTC from 11,650' - 16,284'

Lining Material: Duoline

Type of Packer: Nickel Plated Double Grip Retrievable Packer or Equivalent

Packer Setting Depth: 16,284'

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: Devonian, Fusselman

3. Name of Field or Pool (if applicable): SWD; Devonian-Silurian 97869

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, new drill.

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

Bell Canyon: 3,481'

Cherry Canyon: 4,401'

Bone Spring: 7,365'

Wolfcamp: 11,950'

Strawn: 13,415'

Atoka: 13,526'

Morrow: 14,194'

Mississippian Lime 16,012'



Solaris Water Midstream, LLC

Cordell Fed SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Cordell Fed SWD
Well No.	1
Location	S-35 T-26S R-30E
Footage Location	300' FNL & 275' FWL

2.

a. Wellbore Description

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	16"	13.375"	9.625"	7.625"
WT	0.495"	0.480"	0.545"	0.500"
ID	15.010"	12.415"	8.535"	6.625"
Drift ID	14.822"	12.259"	8.379"	6.500"
COD	17.000"	13.375"	10.625"	7.625"
Weight	84 lb/ft	68 lb/ft	53.5 lb/ft	39 lb/ft
Grade	J-55 BTC	L-80, EZ-GO FJ3	HCP-110 BTC	Q-125 EZ-GO FJ3
Hole Size	18.125"	14.75"	12.25"	8.5"
Depth Set	675'	3,460'	12,050'	11,850' – 16,334'

b. Cementing Program

Casing String	Surface	Intermediate	Production	Liner
Lead Cement	HALCEM™	HALCEM™	NEOCEM™ IL2	NEOCEM™
Lead Cement Volume (sacks)	367	501	Stage 1: 2614 Stage 2: 637	-
Lead Cement Density (ft3/sack)	1.664	1.664	Stage 1: 2.731 Stage 2: 2.732	-
Tail Cement	HALCEM™	HALCEM™	NEOCEM™/HALCEM™	VERSACEM™
Tail Cement Volume (sacks)	311	215	Stage 1: 920 Stage 2: 434	375
Tail Cement Density (ft3/sack)	1.332	1.332	Stage 1: 1.056 Stage 2: 1.336	1.223
Cement Excess	100%	50%	200%, 100%	10%
Total Sacks	678	716	4606	375
TOC	Surface	Surface	Surface	11,850'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

Tubing Information	
OD	5.5" 5.0"
WT	0.361" 0.362"
ID	4.778" 4.276"
Drift ID	4.653" 4.151"
COD	6.050" 5.563"
Weight	20 lb/ft 18 lb/ft
Grade	HCL-80 BTC HCL-80 LTC
Depth Set	0' – 11,650' 11,650' – 16,284'

Tubing will be lined with Duoline.

4. Packer Description

Nickel Plated Double Grip Retrievable Packer or Equivalent

B. Completion Information

1. Injection Formation: Devonian, Fusselman
2. Gross Injection Interval: 16,334' – 18,134'

Completion Type: Open Hole

3. Drilled for injection.
4. See the attached wellbore schematic.
5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Bell Canyon	3,481'
Cherry Canyon	4,401'
Bone Spring	7,365'
Wolfcamp	11,950'
Strawn	13,415'
Atoka	13,526'
Morrow	14,194'
Mississippian Lime	16,012'

VI. Area of Review

No wells within the area of review penetrate the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injected:

Average Volume: 30,000 BPD
Maximum Volume: 40,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

Average Injection Pressure: 2,450 PSI (surface pressure)
Maximum Injection Pressure: 3,267 PSI (surface pressure)

4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Avalon, Bone Spring, and Delaware formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Avalon, Bone Spring, Delaware, Morrow, and Wolfcamp.
5. The disposal interval is non-productive. No water samples are available from the surrounding area.

VIII. Geological Data

Devonian Formation Lithology:

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a tremendous Salt Water Disposal horizon.

Fusselman Formation Lithology:

The Silurian/Ordovician Fusselman Formation is stratigraphically below the Wristen Group and is above and separated from the Montoya Formation by the Sylvan Shale. The Sylvan Shale is the lower confining layer for the proposed well. Fusselman facies include a laminated skeletal wackestone in the upper part and a buildup complex in the lower part composed of ooid and bryozoan grainstones. These grainstones can also be potentially prolific zones for disposal.

A. Injection Zone: Devonian-Silurian Formation

Formation	Depth
Rustler	701'
Salado (Top of Salt)	1,074'
Salado (Bottom of Salt)	3,453'
Bell Canyon	3,481'
Cherry Canyon	4,401'
Bone Spring	7,365'
Wolfcamp	11,950'
Strawn	13,415'
Atoka	13,526'
Morrow	14,194'
Mississippian_Lime	16,012'
Woodford	16,220'
Devonian	16,334'

B. Underground Sources of Drinking Water

No water wells exist within a one-mile radius of the proposed well. Water wells outside a one-mile radius in the surrounding area have an average depth of 440 feet and an average water depth of 180 feet generally producing from the Carlsbad Basin. The upper Rustler may also be another USDW and will be protected.

IX. Proposed Stimulation Program

50,000 gallon acid job

X. Logging and Test Data on the Well

There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

Because there are no water wells that exist within a one-mile radius of the proposed well, chemical analysis of fresh water wells was not retrieved for the proposed well.

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 Road, 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

Form C-101
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address SOLARIS WATER MIDSTREAM, LLC 701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706		² OGRID Number 371643
		³ API Number TBD
⁴ Property Code	⁵ Property Name CORDELL FED SWD	⁶ Well No. 1

⁷ Surface Location

UL - Lot D	Section 35	Township 26 S	Range 30 E	Lot Idn	Feet from 300	N/S Line N	Feet From 275	E/W Line W	County EDDY
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⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
-	-	-	-	-	-	-	-	-	-

⁹ Pool Information

Pool Name SWD; Devonian-Silurian	Pool Code 97869
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Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type BLM	¹⁵ Ground Level Elevation 2993'
¹⁶ Multiple N	¹⁷ Proposed Depth 18,134'	¹⁸ Formation Devonian-Silurian	¹⁹ Contractor TBD	²⁰ Spud Date ASAP
Depth to Ground water 180'		Distance from nearest fresh water well 2.14 miles		Distance to nearest surface water >1 mile

We will be using a closed-loop system in lieu of lined pits

²¹ Proposed Casing and Cement Program

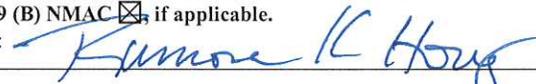
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	18.125"	16"	84 lb/ft	675'	678	Surface
Intermediate	14.75"	13.375"	68 lb/ft	3,460'	716	Surface
Production	12.25"	9.625"	53.5 lb/ft	12,050'	4606	Surface
Liner	8.5"	7.625"	39 lb/ft	11,850'-16,334'	375	11,850
Tubing		5.5" & 5"	20 lb/ft & 18 lb/ft	0' - 11,650' & 11,650' - 16,284'	N/A	

Casing/Cement Program: Additional Comments

See attached schematic.

²² Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Hydraulic/Blinds, Pipe	8,000 psi	10,000 psi	TBD - Schaffer/Cameron

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature:  Printed name: Ramona Hovey Title: Consulting Engineer E-mail Address: ramona@lonquist.com Date: July 19, 2018	OIL CONSERVATION DIVISION	
	Approved By:	
	Title:	
	Approved Date:	Expiration Date:
	Conditions of Approval Attached	
	Phone: 512-600-1777	



LONQUIST & CO. LLC

**PETROLEUM
ENGINEERS**

**ENERGY
ADVISORS**

AUSTIN · HOUSTON | CALGARY · WICHITA
BATON ROUGE · DENVER · COLLEGE STATION

SOLARIS WATER MIDSTREAM, LLC

Cordell Fed SWD #1

Section 35-T26S-R30E

300' FNL & 275' FWL

Eddy County, New Mexico

GEOLOGICAL PROGNOSIS

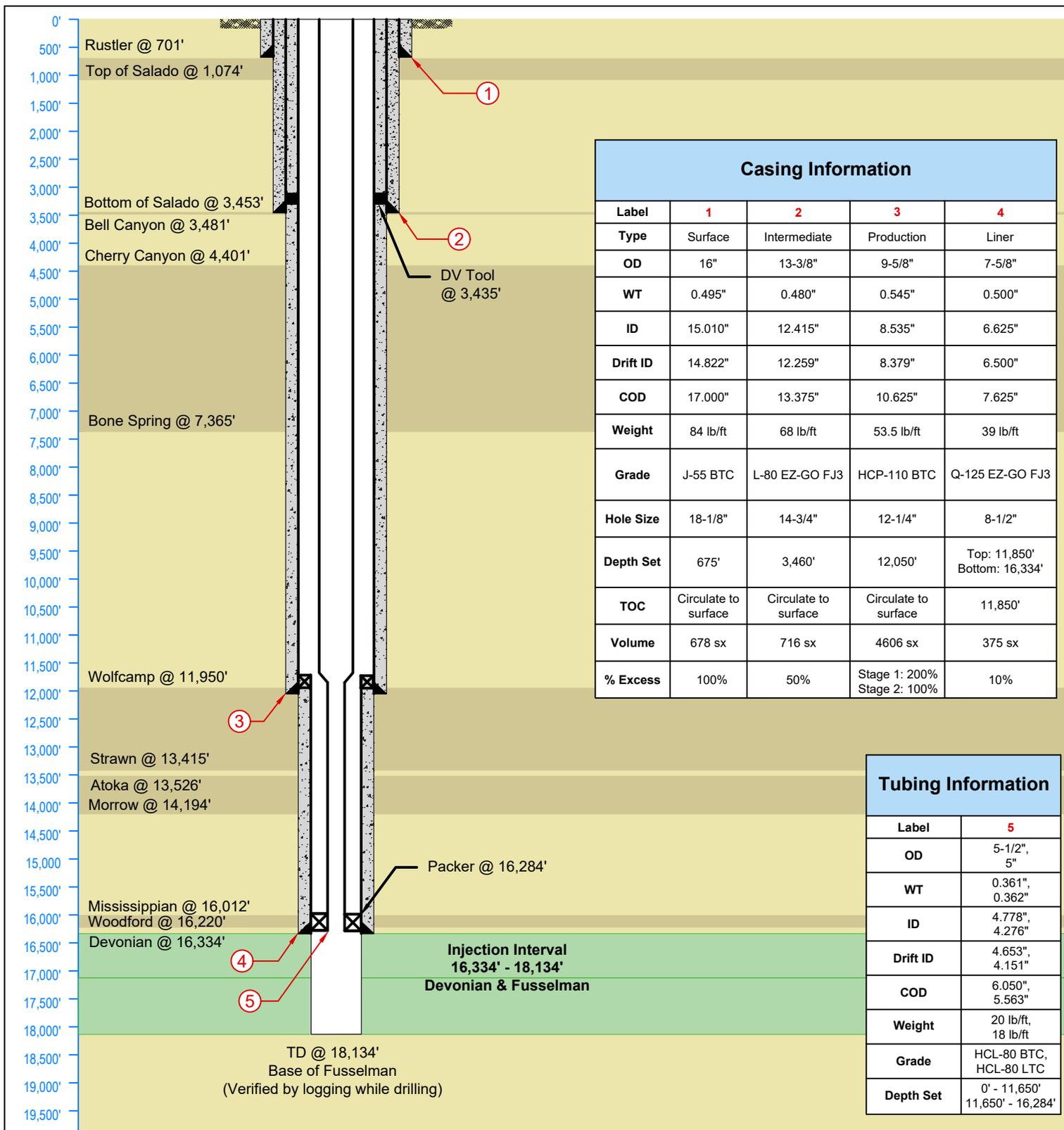
6/20/2019

GL: 2,993' (est.)

KB: 3,015' (+22' est.)

Proposed Injection Interval: 16,334' – 18,134'

<u>Tops</u>	<u>Depths (est.)</u>	<u>Subsea (est.)</u>
Rustler	701'	+2,292
Salado	1,074'	+1,919
Lamar	3,453'	-460
Bell Canyon	3,481'	-488
Cherry Canyon	4,401'	-1,408
Bone Spring	7,365'	-4,372
Wolfcamp	11,950'	-8,957
Strawn	13,415'	-10,422
Atoka	13,526'	-10,533
Morrow	14,194'	-11,201
Mississippian Lime	16,012'	-13,019
Woodford	16,220'	-13,227
Devonian	16,334'	-13,341
TD	18,134'	-15,141



LONQUIST & CO. LLC PETROLEUM ENGINEERS ENERGY ADVISORS HOUSTON CALGARY AUSTIN WICHITA DENVER	Solaris Water Midstream, LLC		Cordell Fed SWD No. 1	
	Country: USA	State/Province: New Mexico	County/Parish: Eddy	
Location:	Site: 300' FNL & 275' FWL	Survey: S35-T26S-R30E		
API No: NA	Field: Devonian-Silurian (Code: 97869)	Well Type/Status: SWD		
Texas License F-9147	NMOCD District No: 2	Project No: 2008	Date: 7/16/2019	
12912 Hill Country Blvd. Ste F-200 Austin, Texas 78738 Tel: 512.732.9812 Fax: 512.732.9816	Drawn: TFM	Reviewed:	Approved:	
	Rev No: 1	Notes:		

Cordell Fed SWD No. 1

2 Mile Area of Review

Solaris Water Midstream, LLC

Eddy Co., NM & Loving Co., Tx

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

Drawn by: ASG

Date: 5/13/2019

Approved by: ELR

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- Cordell SWD No. 1 SHL
- 1/2-Mile
- 1-Mile
- 2-Mile
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Lateral

API (30-015-...) SHL Status-Type (Count)

- Horizontal Surface Location (26)
- ✱ Active - Gas (4)
- Active - Oil (39)
- ⊘ Cancelled/Abandoned Location (23)
- Permitted - Oil (10)
- Permitted - SWD (1)
- ✱ Plugged/Site Released - Gas (6)
- Plugged/Site Released - Oil (22)
- ✱ Plugged/ Site Released - SWD (1)

- ✱ Active - Gas (1)
- Active - Oil (7)
- ⊘ Cancelled/Abandoned Locatin (10)
- Permitted - Gas (3)
- Permitted - Oil (9)

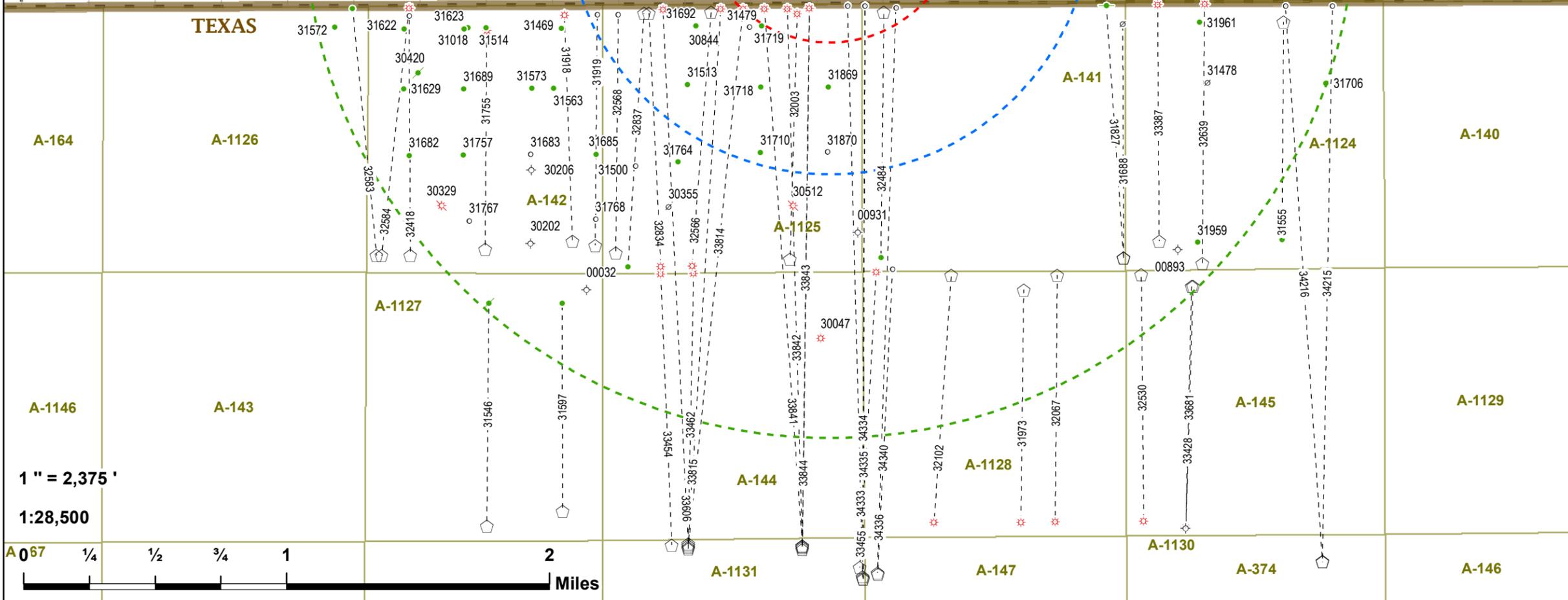
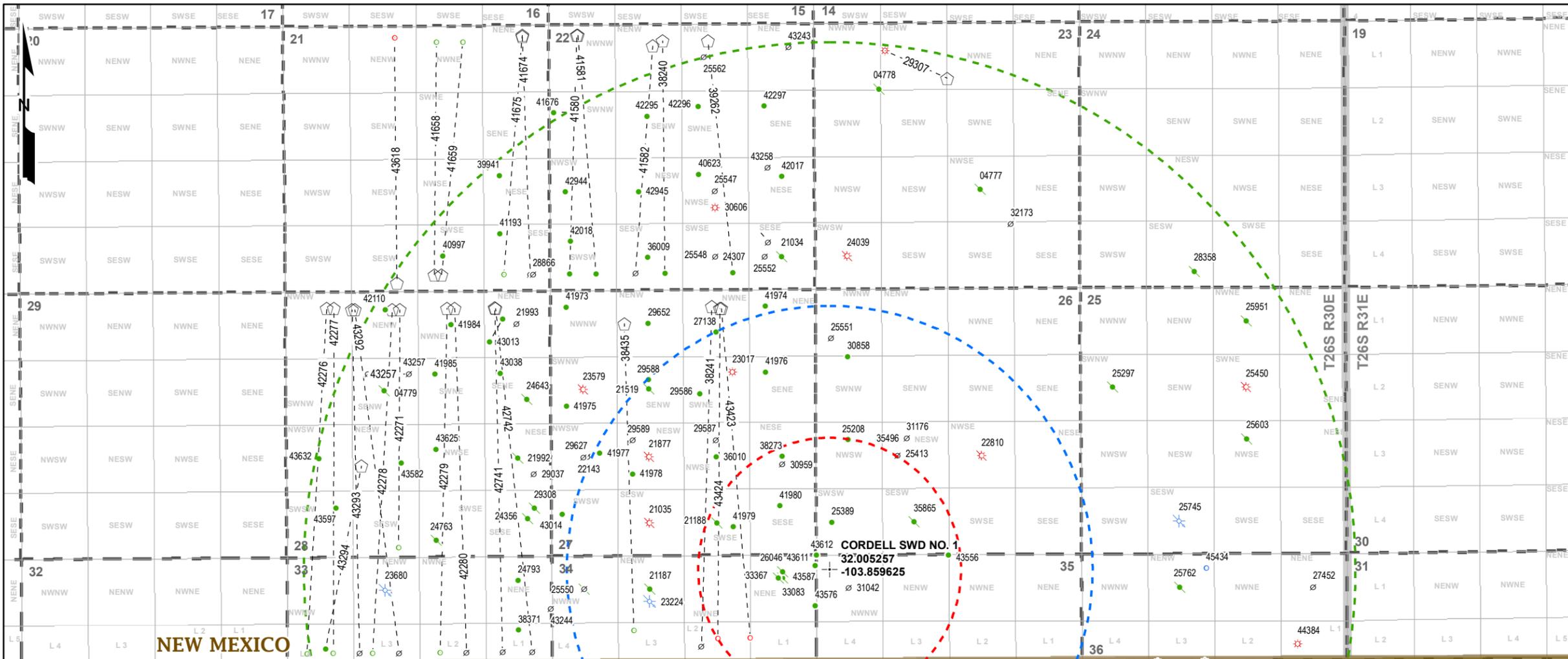
API (42-301-...) SHL Status-Type (Count)

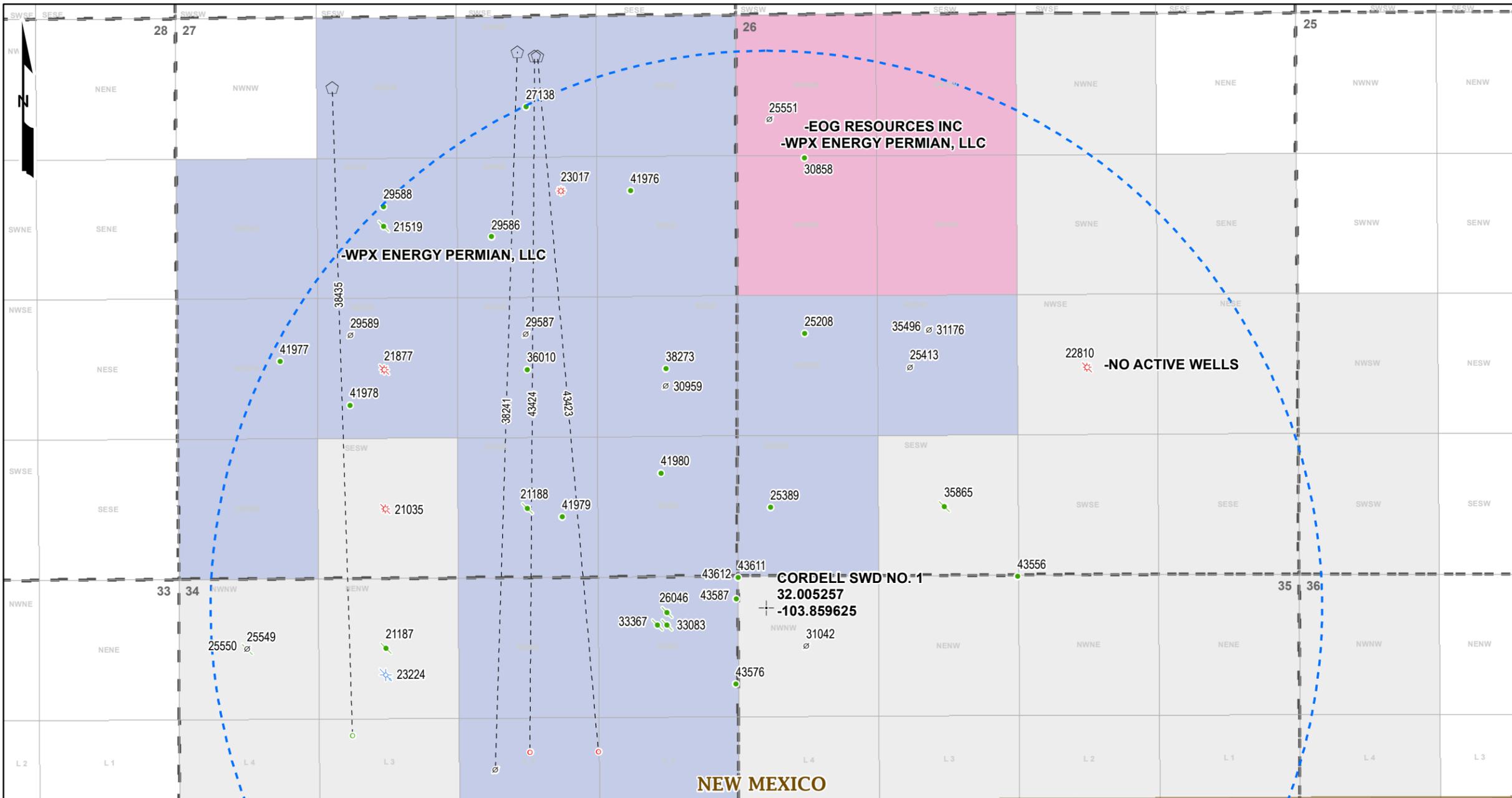
- Horizontal Surface Location (42)
- ✱ Active - Gas (1)
- Active - Oil (24)
- ⊘ Cancelled/Abandoned Location (2)
- ⊘ Dry - Hole (5)
- Permitted - Location (6)
- Plugged Oil (1)
- ✱ Plugged - Gas (2)

API (42-301-...) BHL Status-Type (Count)

- ✱ Active - Gas (24)
- Active - Oil (5)
- ⊘ Cancelled/Abandoned Location (1)
- ⊘ Dry-Hole (1)
- Permitted - Location (10)
- Plugged - Oil (1)
- Shut - In Oil (1)

Source: Well SHL Data - NM-OCD (2019)





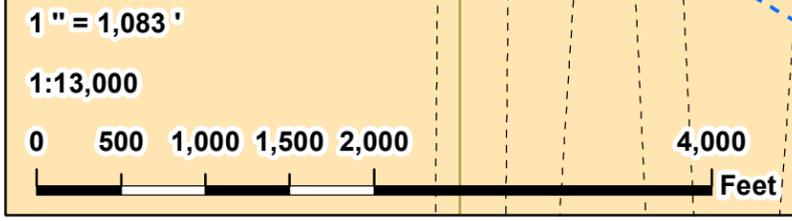
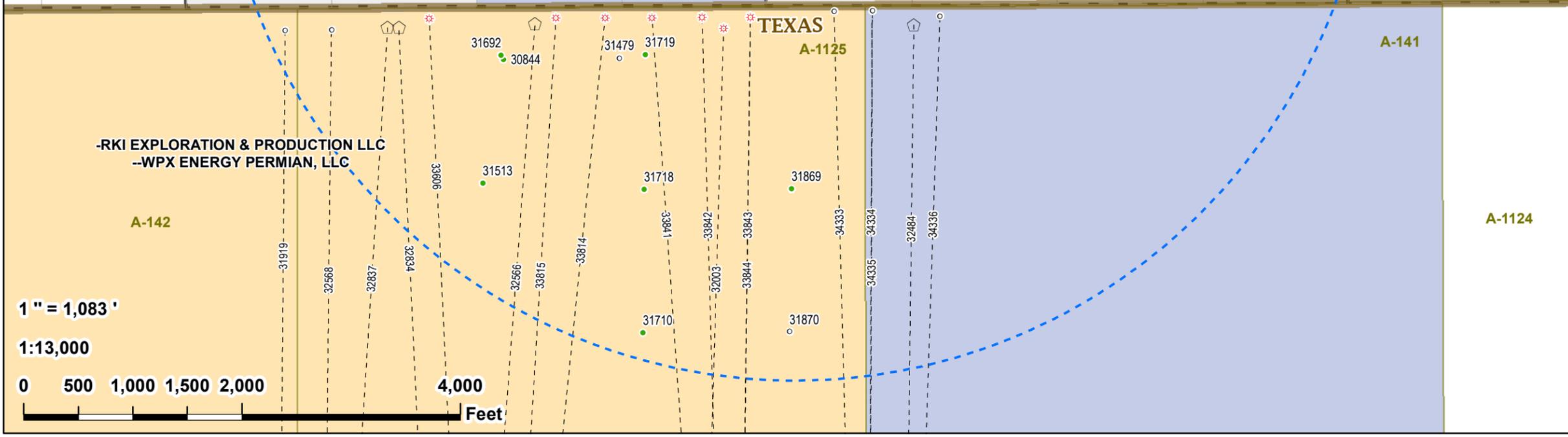
Cordell Fed SWD No. 1
1 Mile Offset Operators - OCD & RRC
 Solaris Water Midstream, LLC
 Eddy Co., NM & Loving Co., Tx

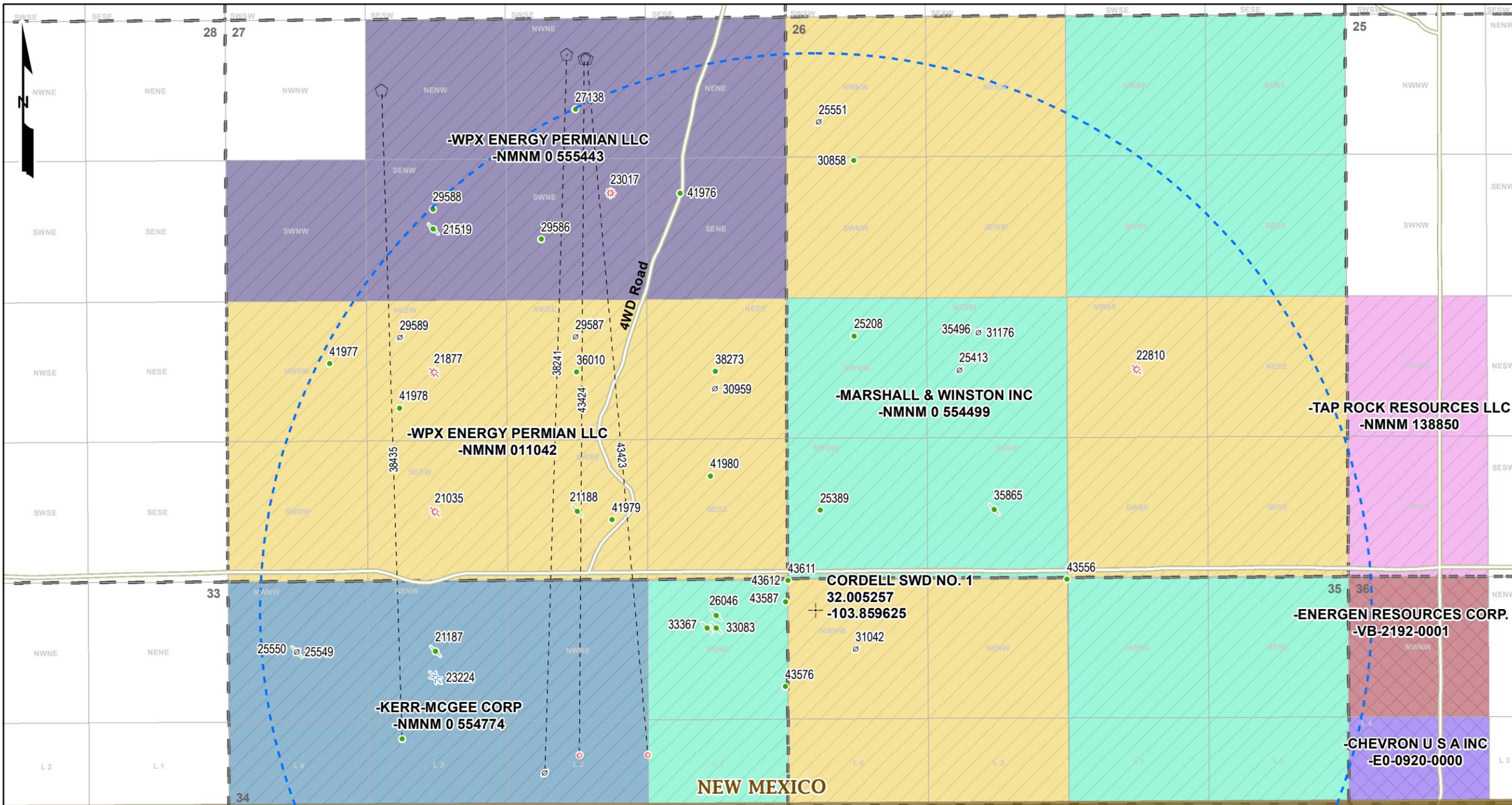
PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

Drawn by: ASG Date: 6/14/2019 Approved by: ELR

LONQUIST & CO. LLC
 PETROLEUM ENGINEERS ENERGY ADVISORS
 AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- ⊕ Cordell SWD No. 1 SHL
 - ⊕ 1-Mile
 - QQ-Section (NM-PLSS 2nd Div.)
 - ▬ Section (NM-PLSS 1st Div.)
 - ▭ Township/Range (NM-PLSS)
 - - Lateral
- API (30-015-...) SHL Status-Type (Count)**
- ⊕ Horizontal Surface Location (4)
 - ⊕ Active - Gas (1)
 - Active - Oil (13)
 - ⊕ Cancelled/Abandoned Location (8)
 - Permitted - Oil (6)
 - ⊕ Plugged/Site Released - Gas (3)
 - ⊕ Plugged/Site Released - Oil (8)
 - ⊕ Plugged/ Site Released - SWD (1)
 - ⊕ Cancelled/Abandoned Location (1)
 - Permitted - Gas (2)
 - Permitted - Oil (2)
- API (42-301-...) SHL Status-Type (Count)**
- ⊕ Horizontal Surface Location (18)
 - Permitted - Location (2)
 - Active - Oil (7)
- API (42-301-...) BHL Status-Type (Count)**
- ⊕ Active - Gas (11)
 - Active - Oil (2)
 - Permitted - Location (6)
- Offset Operators**
- ⊕ -EOG RESOURCES INC; -WPX ENERGY PERMIAN, LLC
 - ⊕ -RKI EXPLORATION & PRODUCTION LLC; -WPX ENERGY PERMIAN, LLC
 - ⊕ -WPX ENERGY PERMIAN, LLC
 - ⊕ -NO ACTIVE WELLS
- Source: Well SHL Data - NM-OCD (2019) & TX RRC (2019)



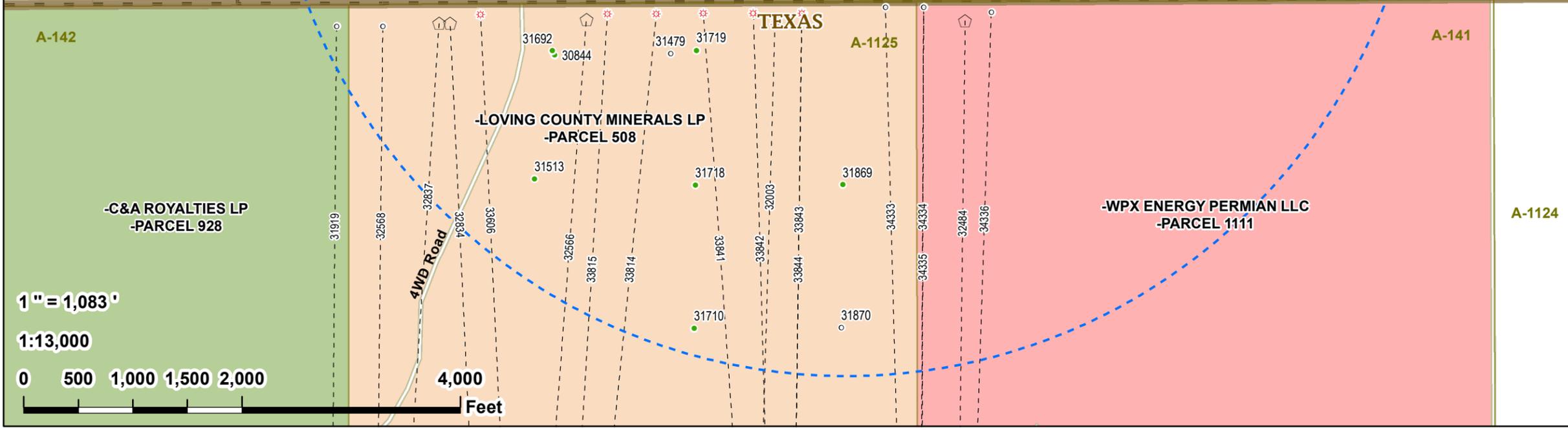


Cordell Fed SWD No. 1
1 Mile Lessee(s) - BLM & SLO
 Solaris Water Midstream, LLC
 Eddy Co., NM & Loving Co., Tx
 PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

Drawn by: ASG Date: 5/14/2019 Approved by: ELR

LONQUIST & CO. LLC
 PETROLEUM ENGINEERS ENERGY ADVISORS
 AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- ✦ Cordell SWD No. 1 SHL
- ▭ 1-Mile
- ▭ NM-BLM
- ▭ NM-SLO
- ▭ QQ-Section (NM-PLSS 2nd Div.)
- ▭ Section (NM-PLSS 1st Div.)
- ▭ Township/Range (NM-PLSS)
- - Lateral
- API (30-015-...) SHL Status-Type (Count)**
- ⬢ Horizontal Surface Location (4)
- ✦ Active - Gas (1)
- Active - Oil (13)
- ⊘ Cancelled/Abandoned Location (8)
- Permitted - Oil (6)
- ✦ Plugged/Site Released - Gas (3)
- Plugged/Site Released - Oil (8)
- ✦ Plugged/ Site Released - SWD (1)
- API (30-015-...) BHL Status-Type (Count)**
- ⊘ Cancelled/Abandoned Location (1)
- Permitted Gas (2)
- Permitted Gas (1)
- API (42-301-...) SHL Status-Type (Count)**
- ⬢ Horizontal Surface Location (18)
- Permitted - Location (2)
- Active - Oil (7)
- API (42-301-...) BHL Status-Type (Count)**
- ✦ Active - Gas (11)
- Active - Oil (2)
- Permitted - Location (6)
- Lessee(s)**
- ▭ -C&A ROYALTIES LP; -PARCEL 928
- ▭ -CHEVRON U S A INC; -E0-0920-0000
- ▭ -ENERGEN RESOURCES CORP.; -VB-2192-0001
- ▭ -KERR-MCGEE CORP; -NMNM 0 554774
- ▭ -LOVING COUNTY MINERALS LP; -PARCEL 508
- ▭ -MARSHALL & WINSTON INC; -NMNM 0 554499
- ▭ -TAP ROCK RESOURCES LLC; -NMNM 138850
- ▭ -WPX ENERGY PERMIAN LLC; -NMNM 0 555443
- ▭ -WPX ENERGY PERMIAN LLC; -NMNM 011042
- ▭ -WPX ENERGY PERMIAN LLC; -PARCEL 1111



1" = 1,083'
 1:13,000
 0 500 1,000 1,500 2,000 4,000 Feet

**Cordell Fed SWD No. 1
1 Mile Area of Review List**

API (30-015-...)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	SPUD DATE	FIELD
21035	ROSS DRAW UNIT #001	G	P	J C WILLIAMSON	3493	32.00786590000	-103.87129210000	12/31/9999	[84320] ROSS DRAW, DELAWARE (GAS)
21187	ROSS DRAW UNIT #002	O	P	J C WILLIAMSON	99999	32.00423810000	-103.87129210000	12/31/9999	[52790] ROSS DRAW, DELAWARE
21188	PRE-ONGARD WELL #003	O	P	PRE-ONGARD WELL OPERATOR	0	32.0078697000	-103.866935700	1/1/1900	-
21519	PRE-ONGARD WELL #004	O	P	PRE-ONGARD WELL OPERATOR	0	32.0152321000	-103.871307400	1/1/1900	-
21877	ROSS DRAW UNIT #005	G	P	J C WILLIAMSON	99999	32.0114975000	-103.871299700	12/31/9999	[52790] ROSS DRAW, DELAWARE; [84300] ROSS DRAW, BONE SPRINGS (GAS)
22810	ROSS DRAW UNIT #007	G	P	WPX Energy Permian, LLC	14441	32.0114937000	-103.849762000	2/25/1979	[52790] ROSS DRAW, DELAWARE; [84330] ROSS DRAW, WOLFCAMP (G) (ABOLISH)
23017	ROSS DRAW UNIT #008	G	A	WPX Energy Permian, LLC	12220	32.0161476000	-103.865860000	10/10/1979	[84330] ROSS DRAW, WOLFCAMP (G) (ABOLISH); [98220] PURPLE SAGE, WOLFCAMP (GAS)
23224	ROSS DRAW UNIT #009	S	P	WPX Energy Permian, LLC	14353	32.0035515000	-103.871292100	1/30/1984	[96100] SWD, DELAWARE
25208	ROSS DRAW UNIT #014	O	A	WPX Energy Permian, LLC	6825	32.0124092000	-103.858413700	3/31/1985	[52795] ROSS DRAW, DELAWARE, EAST
25389	ROSS DRAW UNIT #015	O	A	WPX Energy Permian, LLC	6850	32.0078735000	-103.859481800	10/2/1985	[52795] ROSS DRAW, DELAWARE, EAST
25413	PRE-ONGARD WELL #016	O	C	PRE-ONGARD WELL OPERATOR	0	32.0115036559	-103.855193276	12/31/9999	-
25549	PRE-ONGARD WELL #019	O	C	PRE-ONGARD WELL OPERATOR	0	32.0042384245	-103.875541880	12/31/9999	-
25550	PRE-ONGARD WELL #019	O	P	PRE-ONGARD WELL OPERATOR	0	32.0042343000	-103.875549300	1/1/1900	-
25551	PRE-ONGARD WELL #023	O	C	PRE-ONGARD WELL OPERATOR	0	32.0179755973	-103.859467420	12/31/9999	-
26046	ROSS DRAW UNIT #016	O	P	J C WILLIAMSON	99999	32.0051498000	-103.862678500	12/31/9999	[52790] ROSS DRAW, DELAWARE
27138	ROSS DRAW UNIT #017	O	A	WPX Energy Permian, LLC	99999	32.0183449000	-103.866928100	11/27/1992	[52795] ROSS DRAW, DELAWARE, EAST
29586	ROSS DRAW UNIT #018	O	A	WPX Energy Permian, LLC	6070	32.0149612000	-103.867996200	8/19/1997	[52795] ROSS DRAW, DELAWARE, EAST
29587	ROSS DRAW UNIT #023	O	C	J C WILLIAMSON	0	32.0124105588	-103.866961036	12/31/9999	-
29588	ROSS DRAW UNIT #020	O	A	WPX Energy Permian, LLC	6020	32.0157623000	-103.871307400	9/30/1997	[52795] ROSS DRAW, DELAWARE, EAST
29589	ROSS DRAW UNIT #021	O	C	J C WILLIAMSON	0	32.01240580890	-103.87234136100	12/31/9999	-
30858	ROSS DRAW UNIT #022	O	A	EOG RESOURCES INC	12850	32.0169830000	-103.858406100	1/6/2000	[84330] ROSS DRAW, WOLFCAMP (G) (ABOLISH); [98220] PURPLE SAGE, WOLFCAMP (GAS)
30959	ROSS DRAW UNIT #023	O	C	EOG RESOURCES INC	0	32.01103991610	-103.86268268800	12/31/9999	-
31042	ROSS DRAW UNIT #024	G	C	EOG RESOURCES INC	0	32.0042496401	-103.858406851	12/31/9999	-
31176	ROSS DRAW UNIT #025C	O	C	J C WILLIAMSON	0	32.0124816905	-103.854605685	12/31/9999	-
33083	ROSS DRAW UNIT #026	O	P	WPX Energy Permian, LLC	5710	32.0048218000	-103.862678500	11/23/2003	[52790] ROSS DRAW, DELAWARE
33367	ROSS DRAW UNIT #027	O	P	J C WILLIAMSON	9999	32.00482180000	-103.86296840000	12/31/9999	[52790] ROSS DRAW, DELAWARE
35496	ROSS DRAW UNIT #025	O	A	WPX Energy Permian, LLC	6902	32.0124779000	-103.854629500	3/15/2007	[52790] ROSS DRAW, DELAWARE
35865	ROSS DRAW UNIT #028	O	P	WPX Energy Permian, LLC	6900	32.0078697000	-103.854156500	11/3/2007	[52790] ROSS DRAW, DELAWARE; [52795] ROSS DRAW, DELAWARE, EAST
36010	ROSS DRAW UNIT #030	O	A	WPX Energy Permian, LLC	6943	32.0114975000	-103.866928100	2/8/2008	[52790] ROSS DRAW, DELAWARE
38241	RDU 27 FEDERAL #001H	O	C	WPX Energy Permian, LLC	0	32.0197754000	-103.867187500	12/31/9999	[84300] ROSS DRAW, BONE SPRINGS (GAS)
38273	ROSS DRAW UNIT #032	O	A	WPX Energy Permian, LLC	6332	32.0115013000	-103.862670900	1/18/2011	[52795] ROSS DRAW, DELAWARE, EAST
38435	RDU 27 FEDERAL #002H	O	N	WPX Energy Permian, LLC	0	32.0188599000	-103.872863800	12/31/9999	[84300] ROSS DRAW, BONE SPRINGS (GAS); [84330] ROSS DRAW, WOLFCAMP (G) (ABOLISH)
41976	ROSS DRAW UNIT #055	O	A	WPX Energy Permian, LLC	7544	32.0161514000	-103.863731400	9/9/2014	[52795] ROSS DRAW, DELAWARE, EAST
41977	ROSS DRAW UNIT #056	O	N	WPX Energy Permian, LLC	0	32.0117416000	-103.874496500	12/31/9999	[52795] ROSS DRAW, DELAWARE, EAST
41978	ROSS DRAW UNIT #057	O	A	WPX Energy Permian, LLC	7460	32.0105858000	-103.872360200	2/8/2015	[52795] ROSS DRAW, DELAWARE, EAST
41979	ROSS DRAW UNIT #060	O	A	WPX Energy Permian, LLC	0	32.0076523000	-103.865867600	12/11/2014	[52795] ROSS DRAW, DELAWARE, EAST
41980	ROSS DRAW UNIT #061	O	A	WPX Energy Permian, LLC	7523	32.0087814000	-103.862838700	7/30/2014	[52795] ROSS DRAW, DELAWARE, EAST
43423	ROSS DRAW UNIT #068H	G	N	WPX Energy Permian, LLC	0	32.0196653000	-103.866570600	12/31/9999	[84330] ROSS DRAW, WOLFCAMP (G) (ABOLISH); [98220] PURPLE SAGE, WOLFCAMP (GAS)
43424	ROSS DRAW UNIT #067H	G	N	WPX Energy Permian, LLC	0	32.0196650000	-103.866656200	12/31/9999	[84330] ROSS DRAW, WOLFCAMP (G) (ABOLISH); [98220] PURPLE SAGE, WOLFCAMP (GAS)
43556	ROSS DRAW UNIT #089	O	N	WPX Energy Permian, LLC	0	32.0060480000	-103.851921500	12/31/9999	[52795] ROSS DRAW, DELAWARE, EAST
43576	RDX FEDERAL 28 #043	O	N	WPX Energy Permian, LLC	0	32.0032843900	-103.860570724	12/31/9999	[52800] ROSS DRAW, DELAWARE, WEST
43587	ROSS DRAW UNIT #064	O	N	WPX Energy Permian, LLC	0	32.0054990000	-103.860546960	12/31/9999	[52795] ROSS DRAW, DELAWARE, EAST
43611	ROSS DRAW UNIT #063	O	N	WPX Energy Permian, LLC	0	32.0060484600	-103.860481500	12/31/9999	[52795] ROSS DRAW, DELAWARE, EAST
43612	ROSS DRAW UNIT #088	O	N	WPX Energy Permian, LLC	0	32.0060480000	-103.860481500	12/31/9999	[52795] ROSS DRAW, DELAWARE, EAST
API (42-301-...)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	SPUD DATE	FIELD
30844	JOHNSON RANCH	V	Active - Oil	TAMARACK PETROLEUM COMPANY, INC.	6800	31.9987000000	-103.868000000	32642	-
31479	CBR 4	V	Permitted - Location	RKI EXPLORATION & PRODUCTION LLC	7400	31.9987000000	-103.864000000	-	-
31513	CBR 4	V	Active - Oil	RKI EXPLORATION & PRODUCTION LLC	7588	31.9956000000	-103.868000000	40116	-
31692	CBR 4	V	Active - Oil	RKI EXPLORATION & PRODUCTION LLC	7590	31.9988000000	-103.868000000	40938	-
31710	CBR 4	V	Active - Oil	WPX ENERGY PERMIAN, LLC	7595	31.9918000000	-103.864000000	41127	-
31718	CBR 4	V	Active - Oil	WPX ENERGY PERMIAN, LLC	7575	31.9954000000	-103.864000000	41074	-
31719	CBR 4	V	Active - Oil	RKI EXPLORATION & PRODUCTION LLC	7616	31.9988000000	-103.864000000	40637	-
31869	CBR 4	V	Active - Oil	WPX ENERGY PERMIAN, LLC	7587	31.9954000000	-103.859000000	41250	-
31870	CBR 4	V	Permitted - Location	RKI EXPLORATION & PRODUCTION LLC	7500	31.9918000000	-103.859000000	-	-
31919	ROBINSON 5	H	Permitted - Location	RKI EXPLORATION & PRODUCTION LLC	16000	31.9868000000	-103.874000000	-	-
32003	CBR 4	H	Active - Gas	WPX ENERGY PERMIAN, LLC	12024	31.9860000000	-103.862000000	41487	-
32484	CBR 4	H	Active - Oil	WPX ENERGY PERMIAN, LLC	15425	31.9995000000	-103.856000000	42062	-
32566	CBR 4	H	Active - Gas	WPX ENERGY PERMIAN, LLC	15890	31.9996000000	-103.867000000	42461	-
32568	ROBINSON 5	H	Permitted - Location	RKI EXPLORATION & PRODUCTION LLC	16000	31.9863000000	-103.87300000000	-	-
32834	CBR 4	H	Active - Gas	WPX ENERGY PERMIAN, LLC	15775	31.9995000000	-103.871000000	42428	-
32837	ROBINSON 5	H	Active - Oil	WPX ENERGY PERMIAN, LLC	15792	31.9995000000	-103.871000000	42389	-
33606	CBR 9-4M	H	Active - Gas	WPX ENERGY PERMIAN, LLC	20362	31.9702000000	-103.86800000000	43116	-
33814	CBR 9-4B	H	Active - Gas	WPX ENERGY PERMIAN, LLC	21612	31.9701000000	-103.868000000	43110	-
33815	CBR 9-4A	H	Active - Gas	WPX ENERGY PERMIAN, LLC	21309	31.9701000000	-103.86800000000	43109	-
33841	CBR 9-4C	H	Active - Gas	WPX ENERGY PERMIAN, LLC	21365	31.9702000000	-103.861000000	43140	-

**Cordell Fed SWD No. 1
1 Mile Area of Review List**

33842	CBR 9-4D	H	Active - Gas	WPX ENERGY PERMIAN, LLC	21550	31.9701000000	-103.8610000000	43143	-
33843	CBR 9-4E	H	Active - Gas	WPX ENERGY PERMIAN, LLC	21333	31.9701000000	-103.8610000000	43145	-
33844	CBR 9-4F	H	Active - Gas	WPX ENERGY PERMIAN, LLC	21535	31.9700000000	-103.8610000000	43147	-
34333	CBR 9-4G-56-1	H	Permitted - Location	WPX ENERGY PERMIAN, LLC	16000	31.9684000000	-103.8570000000	-	-
34334	CBR 9-4J-56-1	H	Permitted - Location	WPX ENERGY PERMIAN, LLC	16000	31.9685000000	-103.8570000000	-	-
34335	CBR 9-4I-56-1	H	Permitted - Location	WPX ENERGY PERMIAN, LLC	16000	31.9683000000	-103.8570000000	-	-
34336	CBR 9-4H-56-1	H	Permitted - Location	WPX ENERGY PERMIAN, LLC	16000	31.9687000000	-103.8560000000	-	-

Cordell Fed SWD No. 1
1 Mile Offset Operators and Lessees List

S/T/R	QQ UNIT LETTER(S)	OPERATOR	MINERAL LESSEE	MINERAL OWNER	SURFACE OWNER	ADDRESS 1	ADDRESS 2
25/726S/R30E	LM	-	TAP ROCK RESOURCES LLC	-	-	602 PARK POINT DR STE 200	GOLDEN CO 804019359
26/726S/R30E	C, D, E, F, L, K, M	WPX ENERGY PERMIAN LLC	-	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 741720135
	C, D, E, F	EOG RESOURCES INC	-	-	-	PO BOX 2267	MIDLAND TX 79702
	A, B, G, H, L, K, M, N	-	MARSHALL & WINSTON INC	-	-	PO BOX 50880	MIDLAND TX 797100880
	C, D, E, F, I, J, O, P	-	WPX ENERGY PERMIAN LLC	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 741720135
NMNM-554499		-	SW COMM INCOME-DRILL (OPERATING RIGHTS)	-	-	BOX 11390	MIDLAND TX 79702
		-	THE JC WILLIAMSON FAMILY TRUST (OPERATING RIGHTS)	-	-	PO BOX 10303	MIDLAND TX 79702
		-	SIANA OPERATING LLC (OPERATING RIGHTS)	-	-	PO BOX 10303	MIDLAND TX 79702
		-	ANDERSON TRACY (OPERATING RIGHTS)	-	-	PO BOX 2027	GRANBRY TX 76048
		-	ATTWELL INTEREST INC (OPERATING RIGHTS)	-	-	PO BOX 27225	HOUSTON TX 77227
		-	BARR DAVID (OPERATING RIGHTS)	-	-	1885 ANTOCH RD	FRANKLIN GA 30217
		-	BARR LISA (OPERATING RIGHTS)	-	-	1885 ANTOCH RD	FRANKLIN GA 30217
		-	BLANCO HOLDINGS I LTD (OPERATING RIGHTS)	-	-	PO BOX 36530	HOUSTON TX 77236
		-	COKINOS ENERGY CORP (OPERATING RIGHTS)	-	-	5718 WESTHEIMER RD STE 900	HOUSTON TX 77057
		-	RAGSDALE GEORGE M TRUSTEE (OPERATING RIGHTS)	-	-	7887 SAN FELIPE #122	HOUSTON TX 77063
		-	RAGSDALE TOM M (OPERATING RIGHTS)	-	-	PO BOX 10303	MIDLAND TX 79702
		-	SEELIGSON OIL CO (OPERATING RIGHTS)	-	-	808 TRAVIS ST #2200	HOUSTON TX 77002
		-	SHIELD DEVELOPMENT CORP (OPERATING RIGHTS)	-	-	PO BOX 1700	COLDSPRING TX 77331
		-	SUBSURFACE INVESTMENTS LP (OPERATING RIGHTS)	-	-	7887 SAN FELIPE #122	HOUSTON TX 77063
		-	VANTAGE TUBULARS (OPERATING RIGHTS)	-	-	701 N POST OAK RD #220	HOUSTON TX 77024
		-	WENK JOHN A (OPERATING RIGHTS)	-	-	6222 SUGAR HILL DR	HOUSTON TX 77057
		-	WEST REBEKAH S (OPERATING RIGHTS)	-	-	4302 LANHAM ST	MIDLAND TX 79705
		-	YUNG KEVIN H (OPERATING RIGHTS)	-	-	2516 BRANCH OAKS LN	FLOWER MOUND TX 75028
		-	ROYAL OAK OIL & GAS INC (OPERATING RIGHTS)	-	-	11510 MONTMARTRE BLVD	HOUSTON TX 770822764
		-	WILLIAMSON J C (OPERATING RIGHTS)	-	-	PO BOX 16	MIDLAND TX 797020016
		-	WILLIAMSON LOIS G (OPERATING RIGHTS)	-	-	PO BOX 16	MIDLAND TX 797020016
		-	WILLIAMSON RALPH E (OPERATING RIGHTS)	-	-	BOX 994	MIDLAND TX 79702
		-	EOG RESOURCES INC (OPERATING RIGHTS)	-	-	PO BOX 4362	HOUSTON TX 772104362
		-	WPX ENERGY PERMIAN LLC (OPERATING RIGHTS)	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 741720135
		-	B&W SOUTHERN PETROLEUM (OPERATING RIGHTS)	-	-	4131 N CENTRAL EXPY	DALLAS TX 75204
		-	DOMINION OK TX EXPL & PROD INC (OPERATING RIGHTS)	-	-	14000 QUAIL SPRINGS PKWY #600	OKLAHOMA CITY OK 73134
		-	COSTILLA ENERGY (OPERATING RIGHTS)	-	-	PO BOX 10369	MIDLAND TX 79702
		-	HAWKINS OIL & GAS INC (OPERATING RIGHTS)	-	-	400 S BOSTON #800	TULSA OK 74103
		-	K P ACQUISITION CORP (OPERATING RIGHTS)	-	-	2040 MURRAY HOLLADAY	SALT LAKE CITY UT 84117
		-	K P ACQUISITION CORP (OPERATING RIGHTS)	-	-	500 W TEXAS #1450	MIDLAND TX 79701
		-	CARLSLE RICK (OPERATING RIGHTS)	-	-	2626 NOEL AVE	MIDLAND TX 79705
		-	CARLSLE DEE ANN (OPERATING RIGHTS)	-	-	2626 NOEL AVE	MIDLAND TX 79705
27/726S/R30E	A, B, C, E, F, G, H, I, J, K, L, M, O, P	WPX ENERGY PERMIAN, LLC	-	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 741720135
	A, B, C, E, F, G, H	-	WPX ENERGY PERMIAN, LLC	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 741720135
	I, J, K, L, M, N, O, P	-	WPX ENERGY PERMIAN, LLC	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 741720135
NMNM-555443		-	WPX ENERGY PERMIAN, LLC (OPERATING RIGHTS)	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 741720135
		-	STONESTREET HARDEMAN (OPERATING RIGHTS)	-	-	2091 E MURRAY	SALT LAKE CITY UT 84117
		-	WAGNER DUER JR (OPERATING RIGHTS)	-	-	301 COMMERCE ST 3400	FORT WORTH TX 76102
		-	KERRY PETROLEUM CO (OPERATING RIGHTS)	-	-	2040 MURRAY HOLLADAY	SALT LAKE CITY UT 84117
		-	MID-CONTINENT ENERGY (OPERATING RIGHTS)	-	-	100 W 5TH ST #450	TULSA OK 741034287
		-	NY LIFE OG OPER PROD (OPERATING RIGHTS)	-	-	700 LOUISIANA #2100	HOUSTON TX 77002
		-	WILLIAMSON J C (OPERATING RIGHTS)	-	-	214 W TEXAS AVE STE 1250	MIDLAND TX 797014636
		-	WILLIAMSON J C (OPERATING RIGHTS)	-	-	PO BOX 16	MIDLAND TX 797020016
		-	EURAMPEX INDUSTRIES (OPERATING RIGHTS)	-	-	12001 N CENTRAL EXPY	DALLAS TX 75243
		-	SAMSON RESOURCES CO (OPERATING RIGHTS)	-	-	2 W SECOND ST	TULSA OK 74103
		-	COG OPERATING LLC (OPERATING RIGHTS)	-	-	600 W ILLINOIS AVE	MIDLAND TX 797014882
		-	B&W SOUTHERN PETROLEUM (OPERATING RIGHTS)	-	-	4131 N CENTRAL EXPY	DALLAS TX 75204
		-	DOMINION OK TX EXPL & PROD INC (OPERATING RIGHTS)	-	-	14000 QUAIL SPRINGS PKWY #600	OKLAHOMA CITY OK 73134
		-	COSTILLA ENERGY (OPERATING RIGHTS)	-	-	PO BOX 10369	MIDLAND TX 79702
		-	DUER WAGNER & CO (OPERATING RIGHTS)	-	-	301 COMMERCE ST 3400	FORT WORTH TX 76102
NMNM-011042		-	STONESTREET HARDEMAN (OPERATING RIGHTS)	-	-	2091 E MURRAY	SALT LAKE CITY UT 84117
		-	WAGNER DUER III (OPERATING RIGHTS)	-	-	301 COMMERCE ST 3400	FORT WORTH TX 76102
		-	ICA ENERGY INC (OPERATING RIGHTS)	-	-	PO BOX 223	ODESSA TX 797002033
		-	BLOOMQUIST CHARLES (OPERATING RIGHTS)	-	-	W 730 SEVENTEENTH ST	DENVER CO 80202
		-	MID-CONTINENT ENERGY (OPERATING RIGHTS)	-	-	100 W 5TH ST #450	TULSA OK 741034287
		-	NY LIFE OG OPER PROD (OPERATING RIGHTS)	-	-	700 LOUISIANA #2100	HOUSTON TX 77002
		-	WILLIAMSON J C (OPERATING RIGHTS)	-	-	PO BOX 16	MIDLAND TX 797020016
		-	WILLIAMSON LOIS G (OPERATING RIGHTS)	-	-	BOX 16	MIDLAND TX 79702
		-	WILLIAMSON RALPH E (OPERATING RIGHTS)	-	-	BOX 994	MIDLAND TX 79702
		-	WILLIAMSON CHARLOTTE (OPERATING RIGHTS)	-	-	BOX 50410	AUSTIN TX 78763
		-	EURAMPEX INDUSTRIES (OPERATING RIGHTS)	-	-	12001 N CENTRAL EXPY	DALLAS TX 75243
		-	SAMSON RESOURCES CO (OPERATING RIGHTS)	-	-	2 W SECOND ST	TULSA OK 74103
		-	TRAINER C W (OPERATING RIGHTS)	-	-	PO BOX 3788	MIDLAND TX 797023788
		-	BRAZOS LP (OPERATING RIGHTS)	-	-	PO BOX 911	BRECKENRIDGE TX 76424
		-	COG OPERATING LLC (OPERATING RIGHTS)	-	-	600 W ILLINOIS AVE	MIDLAND TX 797014882
		-	HUIE MARSHA COPE (OPERATING RIGHTS)	-	-	3502 MARYMONT DR	SAN ANTONIO TX 782173412
		-	WPX ENERGY PERMIAN (OPERATING RIGHTS)	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 741720135
		-	MCRAE & HENRY LTD (OPERATING RIGHTS)	-	-	730 17TH ST #920	DENVER CO 802023520

**Cordell Fed SWD No. 1
1 Mile Offset Operators and Lessees List**

		-	TRAINER JACKIE (OPERATING RIGHTS)	-	-	PO BOX 754	MIDLAND TX 79702
		-	B&W SOUTHERN PETROLEUM (OPERATING RIGHTS)	-	-	4131 N CENTRAL EXPY	DALLAS TX 75204
		-	GEODYNE NOMINEE CORP (OPERATING RIGHTS)	-	-	2 W 2ND ST SAMSON PLZ	TULSA OK 74103
		-	DOMINION OK TX EXPL & PROD INC (OPERATING RIGHTS)	-	-	14000 QUAIL SPRINGS PKWY #600	OKLAHOMA CITY OK 73134
		-	COSTILLA ENERGY (OPERATING RIGHTS)	-	-	PO BOX 10369	MIDLAND TX 79702
		-	DUER WAGNER & CO (OPERATING RIGHTS)	-	-	301 COMMERCE ST	FORT WORTH TX 76102
		-	KERRY PETROLEUM CO (OPERATING RIGHTS)	-	-	500 W TEXAS #1450	MIDLAND TX 79701
34/T26S/R30E	A, B, G, H	WPX ENERGY PERMIAN, LLC	-	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 74120135
	A, H	-	MARSHALL & WINSTON INC	-	-	PO BOX 50880	MIDLAND TX 797100880
	B, C, D, E, F, G	-	KERR MCGEE CORP	-	-	PO BOX 25861	OKLAHOMA CITY OK 73125
NMNM 554774		-	WPX ENERGY PERMIAN LLC (OPERATING RIGHTS)	-	-	3500 ONE WILLIAMS CTR	TULSA OK 74120135
		-	DOMINION OK TX EXL & PROD INC (OPERATING RIGHTS)	-	-	14000 QUAIL SPRINGS PKWY #600	OKLAHOMA CITY OK 73124
		-	COSTILLA ENERGY (OPERATING RIGHTS)	-	-	PO BOX 10369	MIDLAND TX 79702
35/T26S/R30E	A, B, G, H	-	MARSHALL & WINSTON INC	-	-	PO BOX 50880	MIDLAND TX 797100880
	C, D, E, F,	-	WPX ENERGY PERMIAN, LLC	-	-	3500 ONE WILLIAMS CTR	TULSA OK 74120135
36/T26S/R30E	D	-	ENERGEN RESOURCES CORP.	-	-	605 RICHARD ARRINGTON, JR. BLVD. NORTH	BIRMINGHAM, AL 352022707
	E	-	CHEVRON U S A INC	-	-	6301 DEAUVILLE BLVD	MIDLAND, TX 79706
A-141 (Texas)	PARCEL 1111	WPX ENERGY PERMIAN, LLC	-	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 74120135
		-	WPX ENERGY PERMIAN, LLC	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 74120135
A-142 (Texas)	PARCEL 928	RKI EXPLORATION & PRODUCTION LLC	-	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 74172
		-	WPX ENERGY PERMIAN, LLC	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 74120135
		-	C&A ROYALTIES LP	-	-	4849 GREENVILLE AVE STE 1515	DALLAS TX, 75206
A-1125 (Texas)	PARCEL 508	RKI EXPLORATION & PRODUCTION LLC	-	-	-	3500 ONE WILLIAMS CTR MD 35	TULSA OK 74172
		-	WPX ENERGY PERMIAN, LLC	-	-	3500 ONE WILLIAMS CTR	TULSA OK 74120135
		-	LOVING COUNTY MINERAL LP	-	-	111 WEST 75TH STREET	KANSAS CITY MO, 64114
Surface Location	35/T26S/R30E (ENTIRE SECTION)	-	-	BLM	BLM	310 OLD SANTA FE TRAIL	SANTA FE NM 87504

Cordell Fed SWD No. 1
Offsetting Produced Water Analysis

Well Name	API	Section	Township	Range	Unit	County	Field	Formation	ph	tds_mgL	sodium_mgL	calcium_mgL	iron_mgL	magnesium_mgL	manganese_mgL	chloride_mgL	bicarbonate_mgL	sulfate_mgL	co2_mgL
USA #001	3001504776	20	26S	30E	E	EDDY		DELAWARE		159967						97900	137	1100	
E D WHITE FEDERAL NCT 1 #003	3001505886	26	26S	31E	D	EDDY	MASON NORTH	DELAWARE		212112						132100	195	425	
NORTH EL MAR UNIT #022	3002508278	25	26S	32E	J	LEA	EL MAR	DELAWARE		244815						153500	88	220	
HOPI FEDERAL #001	3001529367	1	25S	28E	F	EDDY	WILLOW LAKE	DELAWARE	6.2	301207	109024	25348.9	34.713	2749.51	221998	74.4534	84.987		
HOPI FEDERAL #002	3001530754	1	25S	28E	C	EDDY		DELAWARE	5.9	289700	104602	23783.6	45.334	2914.5	212544	49.5095	508.218		
NORTH EL MAR UNIT #028	3002508296	26	26S	32E	L	LEA	EL MAR	DELAWARE		249479						156000	976	373	
NORTH EL MAR UNIT #045	3002508308	35	26S	32E	A	LEA	EL MAR	DELAWARE		255115						160000	85	310	
CONTINENTAL FED #002	3001510172	20	25S	30E	L	EDDY	CORRAL CANYON	DELAWARE		157068						97030	68	510	
R & B FED FED A #001	3001504752	17	25S	30E	D	EDDY	CORRAL CANYON	DELAWARE	7	146809						89710	24	346	
BENNETT FEDERAL #001	3001524071	30	25S	30E	D	EDDY	CORRAL CANYON SOUTH	DELAWARE	6	103300	53495	3120	10	3080	97000	100	200		
HOPP FED #001	3001504738	4	25S	30E	M	EDDY		DELAWARE		180137						110500	232	1199	
R AND B FEDERAL #001Y	3001504753	17	25S	30E	D	EDDY	CORRAL CANYON	DELAWARE		146130						89700	24	346	
CONTINENTAL FEDERAL #001	3001510048	20	25S	30E	D	EDDY	CORRAL CANYON	DELAWARE		193989						119700	82	1446	
SUPERIOR STATE #002	3001510181	8	25S	30E	J	EDDY	CORRAL CANYON	DELAWARE		150830									
COTTON DRAW UNIT #161H	3001538433	2	25S	31E	D	EDDY		DELAWARE-BRUSHY CANYON	6.5	257515.5	74122.9	16699.4	79.5	2736.1	160663.2		359.4	400	
COTTON DRAW 13 FEDERAL #001H	3001540385	13	25S	31E	M	EDDY		DELAWARE-BRUSHY CANYON	6.7	239818.3	72792.6	12750.4	110.8	2141.6	149091.1		595.6	400	
COTTON DRAW UNIT #172H	3001542426	1	25S	31E	D	EDDY		DELAWARE-BRUSHY CANYON	6.3	245565.5	71987.8	15105.6	76.4	2475.6	153168.3		545.1	400	
COTTON DRAW UNIT #173H	3001542515	1	25S	31E	P	EDDY		DELAWARE-BRUSHY CANYON	6.5	240893.6	69999.9	13540.5	54	2248.5	152475.6		600.8	300	
COTTON DRAW 10 FEDERAL COM #002H	3001539230	10	25S	31E	A	EDDY		DELAWARE-BRUSHY CANYON	7.4	254599.9	79764.6	13961.3	35	2265	156140	48.8	351	20	
COTTON DRAW UNIT #153H	3001538535	3	25S	31E	B	EDDY		DELAWARE-BRUSHY CANYON	6.7	271580.1	82640	18493	103	3404	163110	219.6	286	30	
COTTON DRAW 11 FEDERAL #002H	3001539375	11	25S	31E	C	EDDY		DELAWARE-BRUSHY CANYON	6.3	249141.5	73945	14492	45	2514	155100	122	0	250	
COTTON DRAW UNIT #162H	3001539730	11	25S	31E	M	EDDY		DELAWARE-BRUSHY CANYON	6.2	247108.5	74025	13425	76	2423	154200	122	0	300	
SNAPPING 2 STATE #013H	3001542113	2	26S	31E	N	EDDY		BONE SPRING 3RD SAND	6.8	91289.1	28721.3	3440.7	16.3	437.4	56957.4		327.9	150	
SNAPPING 10 FEDERAL #005H	3001540994	10	26S	31E	P	EDDY		BONE SPRING 2ND SAND	6.6	138376	44458.5	6280.8	29.7	781.3	84470	122	618	20	
SNAPPING 10 FEDERAL #003H	3001539866	10	26S	31E	N	EDDY		BONE SPRING 2ND SAND	6.5	152439.2	48495.7	6731.3	29.1	801.4	94055	244	0	100	
ODIE 4 STATE #001H	3001541311	4	25S	28E	M	EDDY		BONE SPRING 2ND SAND	6.2	190675.4	57102	10650	45	1414	119078	93.1	17	252	
NERMAL 4 STATE #001H	3001541239	4	25S	28E	C	EDDY		BONE SPRING 2ND SAND	7.2	208311.9	67903	12598	31	1592	123723	61	1.7	260	
POOKY 4 STATE #001H	3001541241	4	25S	28E	A	EDDY		BONE SPRING 2ND SAND	7	204576.5	63037.2	12091.9	28.2	1510.7	125493	48.8	0	0	
COTTON DRAW UNIT #219H	3001541363	2	25S	31E	P	EDDY		BONE SPRING 2ND SAND	6.4	154900.7	46690.1	7728.7	132	945.5	97130.8	183	0	200	
COTTON DRAW UNIT #220H	3001541364	2	25S	31E	P	EDDY		BONE SPRING 2ND SAND	6.2	151722	47168.6	7450	48.1	989.6	93392.1	122	1116.7	200	
COTTON DRAW 10 FEDERAL COM #003H	3001542126	10	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.2	166762.2	50511.3	8741.5	34.9	1113.3	104123.2	122	0	150	
COTTON DRAW 10 FEDERAL COM #003H	3001542126	10	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.2	166972	40511.3	8741.5	34.9	1113.3	104123.2	122	698.3	150	
COTTON DRAW 10 FEDERAL COM #004H	3001542127	10	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6	157444	58942.2	8080.1	33.4	1039.4	97266	122	767.5	150	
COTTON DRAW 15 FED COM #002H	3001540748	15	25S	31E	B	EDDY		BONE SPRING 2ND SAND	6.9	158206.7	48491.4	7898.9	47.9	982.5	98665.6	122	0	200	
COTTON DRAW UNIT #202H	3001541437	2	25S	31E	M	EDDY		BONE SPRING 2ND SAND	6.9	149970.4	47221.1	7739.3	48.6	945.9	91736.6	188	0	200	
COTTON DRAW 14 FED COM #001H	3001542091	14	25S	31E	D	EDDY		BONE SPRING 2ND SAND	6.4	155557.8	47632.8	7833.6	31.4	950.8	96870.5	122	0	200	
COTTON DRAW 14 FED COM #002H	3001542092	14	25S	31E	D	EDDY		BONE SPRING 2ND SAND	6.2	154868.7	48183	8015.7	36	979.9	95447.5	122	0	200	
COTTON DRAW 10 FEDERAL COM #003H	3001542126	10	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.8	156876.4	47995.3	8167.1	46.9	1037.2	97409	152	0	200	
COTTON DRAW 10 FEDERAL COM #004H	3001542127	10	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.5	158125.7	48703.1	8121.1	37.1	1022.8	98100	122	0	200	
COTTON DRAW UNIT #216H	3001542317	3	25S	31E	D	EDDY		BONE SPRING 2ND SAND	6.5	151149.4	46958.4	7753.9	38.7	968.6	93214.4	122	0	200	
COTTON DRAW UNIT #217H	3001542318	3	25S	31E	D	EDDY		BONE SPRING 2ND SAND	6.5	150344.4	46535.5	7533.5	36	943.7	93134.6	122	0	200	
COTTON DRAW 14 FEDERAL #003H	3001542504	14	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.8	149342.5	46864.9	7735.5	34.3	953.9	91392.5	244	0	200	
COTTON DRAW 14 FEDERAL #004H	3001542505	14	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.8	148867.1	46832	7781.8	31.8	940.8	91091.9	144	0	200	
COTTON DRAW UNIT #221H	3001542513	1	25S	31E	N	EDDY		BONE SPRING 2ND SAND	7.1	145420.8	45961.8	7771.4	35	973.4	88433.1	144	0	200	
COTTON DRAW UNIT #222H	3001542514	1	25S	31E	N	EDDY		BONE SPRING 2ND SAND	7.1	145160.9	44866.9	7892.4	36	972.6	89011.8	244	0	200	
SNAPPING 2 STATE #014H	3001542688	2	26S	31E	P	EDDY		WOLFCAMP	7.3	81366.4	26319.4	2687.4	26.1	326.7	50281.2		399.7	100	
SIGNAL ST #002	3001502520	28	25S	28E	N	EDDY		MORROW		102849									
GOVERNMENT 134 #001	3001500076	12	26S	24E	H	EDDY	WASHINGTON RANCH	MORROW		2009						40	73	1320	
SNAPPING 10 FEDERAL #001H	3001537899	10	26S	31E	B	EDDY		AVALON UPPER	6.5	199638.8	68948.2	7560.4	111.2	1522.8	2.19	118195	732	0	500
SNAPPING 11 FEDERAL #001H	3001538193	11	26S	31E	N	EDDY		AVALON UPPER	6.1	225189.8	77010.7	8743.8	636.1	1649.2	6.75	134075	366	0	300
SNAPPING 2 STATE #003H	3001539036	2	26S	31E	M	EDDY		AVALON UPPER	6.1	223019	76001.7	10437.8	209.9	1922.4	4.5	131072	366	632	1100
SNAPPING 2 STATE #006H	3001539162	2	26S	31E	D	EDDY		AVALON UPPER	6.5	179788.5	71575.7	617.4	21.8	109.6	0	101374	3660	0	500
COOTER 16 STATE #001H	3001537625	16	25S	29E	N	EDDY		AVALON UPPER	7	208453.6	79520.3	498	28	162	0.4	121800	3208.4	1994	990
COOTER 16 STATE #002H	3001537626	16	25S	29E	M	EDDY		AVALON UPPER	7	219573.8	84179.4	370	22	141	0.4	129012	3178.6	1497	980
COOTER 16 STATE #003H	3001537627	16	25S	29E	D	EDDY		AVALON UPPER	7	201311	77136.2	343	34	108	0.6	117265	3342.8	2127	990
COOTER 16 STATE #004H	3001537628	16	25S	29E	N	EDDY		AVALON UPPER	7	190430.5	71870.7	929	110	237	1.5	111478	3224.6	1389	1140
COOTER 16 STATE COM #005H	3001537875	16	25S	29E	D	EDDY		AVALON UPPER	7	187758.9	71165.6	758	20	178	0.3	109624	3212.4	1623	970
COOTER 16 STATE COM #007H	3001537877	16	25S	29E	P	EDDY		AVALON UPPER	7	200382.3	76518.3	605	91	154	1.5	118991	1464	1277	700
COOTER 16 STATE COM #008H	3001537878	16	25S	29E	F	EDDY		AVALON UPPER	6.8	207677.5	79391.5	595	99	147	1.5	123161	1708	1342	800
SLIDER 8 FEDERAL #001H	3001538242	8	25S	29E	J	EDDY		AVALON UPPER	6.9	190364	72196.4	814	60	289	1	113348	707.6	1578	500
SLIDER 8 FEDERAL #003H	3001538272	8	25S	29E	J	EDDY		AVALON UPPER	7.2	150471.8	55164.4	2053	37	445	0.5	89777	610	1249	500
COOTER 16 STATE COM #006H	3001537876	16	25S	29E	D	EDDY		AVALON UPPER	7	193732.3	74027.8	513	104	118	1	113441	1830	2665	700
COTTON DRAW UNIT #135H	3001538533	2	25S	31E	N	EDDY		AVALON MIDDLE	7.1	204607.1	68549.6	7663	25	1369	1.5	123033	976	1434	60
COTTON DRAW UNIT #136H	3001538534	2	25S	31E	N	EDDY		AVALON LOWER	7.1	176370.9	63443.9	3351	36	615	0.8	104946	1537.2	1188	40
COTTON DRAW UNIT #137H	3001538556	2	25S	31E	N	EDDY		AVALON MIDDLE	7.3	230564.8	73317.3	11591	44	1987	2.5	140233	610	781	40
COTTON DRAW UNIT #135H	3001538533	2	25S	31E	N	EDDY		AVALON MIDDLE	6.5	221504.1	71676	11845	49	2039	2.5	131876	707.6	1106	50
SOFTSHELL 22 FEDERAL #001	3001539277	22	25S	31E	B	EDDY		AVALON UPPER	6.8	160733	52106	1481	68	289	0.9	102300	2342.4	1012	60
COTTON DRAW UNIT #134H	3001538293	2	25S	31E	M	EDDY		AVALON LOWER	6.66	173840.4	59159	4411	73	912	1.5	105084	1403	0	350
COTTON DRAW UNIT #135H	3001538533	2	25S	31E	N	EDDY		AVALON MIDDLE	6.6	193809	59779	8398	95						

GEOLOGIC AFFIRMATION

I have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and underground sources of drinking water.



Parker Jessee
Geologist

Project: Solaris Water Midstream, LLC
 Cordell Fed #1

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001291544

LONQUIST & CO
1001 MCKINNEY, SUITE 1650

HOUSTON TX 77002

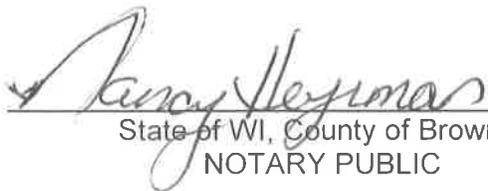
I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

07/17/19



Legal Clerk

Subscribed and sworn before me this
17th of July 2019.



State of WI, County of Brown
NOTARY PUBLIC

5-15-23

My Commission Expires

Legal Notice

Solaris Water Midstream, LLC, 907 Tradewinds Blvd., Suite B, Midland, TX 79706, is filling Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well Cordell Fed SWD No. 1. The proposed well will be located 300' FNL & 275' FWL in Section 35, Township 26S, Range 30E in Eddy County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Devonian-Silurian formation (determined by offset log analysis) through an open hole completion between a maximum applied for top of 16,344 feet to a maximum depth of 18,134 feet. The maximum surface injection pressure will not exceed 3,269 psi with a maximum rate of 40,000 BWPD. Interested parties opposing the action must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days. Additional information can be obtained from the applicant's agent, Lonquist & Co., LLC, at (512) 600-1774.

July 17, 2019

NANCY HEYRMAN
Notary Public
State of Wisconsin

DETERMINATION AND NOTICE OF AFFECTED PARTIES – NEW MEXICO

If an operator or mineral lessee has legal acreage or leases within one mile of the proposed salt water disposal well, their contact information is collected for notification purposes. Legal acreage of offset operators is gathered from the New Mexico Oil Conservation District's Permitting website. Minerals leased from the federal government are determined by referencing the Bureau of Land Management's Land and Mineral System Reports database. Minerals leased from the state government are determined by referencing the New Mexico State Land Office's Data Access database. Contact information for the affected parties is then extracted from the reports that were filed with the appropriate regulatory agency. Should any private minerals that are not public information fall within the one-mile radius, a title search was performed to discover the current lessee of those minerals or identifying the mineral owner of the acreage.

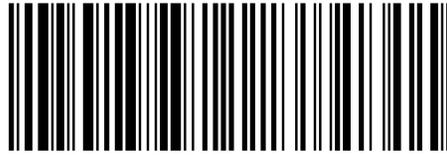
Notices were sent for the Cordell Fed SWD No. 1 application by mailing them a copy of Form C-108 on 7/19/2019. The individual tracking numbers are attached in the following pages of this application. Receipt of each application will be monitored and presented to the Oil Conservation Division upon request.



Tyler Moehlman
Petroleum Engineer

Project: Solaris Water Midstream, LLC
Cordell Fed SWD No. 1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4042 61

RETURN RECEIPT (ELECTRONIC)

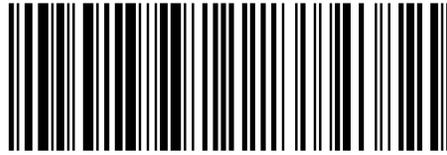


Total Postage: \$6.55

OIL CONSERVATION DIVISION DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
ARTESIA, NM 88210

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4042 78

RETURN RECEIPT (ELECTRONIC)

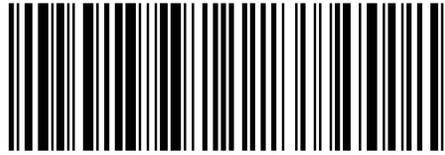


Total Postage: \$6.55

ANDERSON TRACY
PO BOX 2027
GRANBRY , TX 76048

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4042 85

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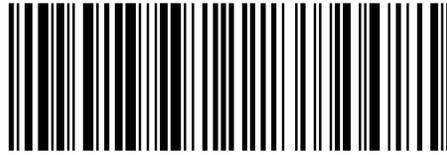


Total Postage: \$6.55

ATTWELL INTEREST INC
PO BOX 27225
HOUSTON, TX 77227

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4042 92

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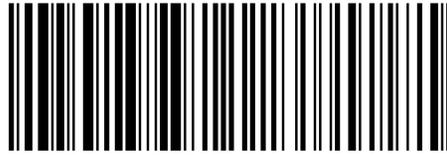


Total Postage: \$6.55

B&W SOUTHERN PETROLEUM
4131 N CENTRAL EXPY
DALLAS , TX 75204

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4043 08

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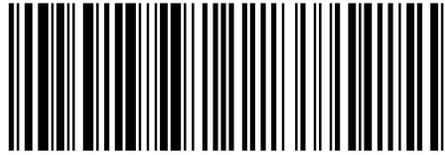


Total Postage: \$6.55

BARR DAVID
BARR LISA
1885 ANTIOCH RD
FRANKLIN , GA 30217

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4043 15

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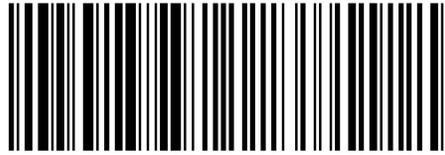


Total Postage: \$6.55

BLANCO HOLDINGS I LTD
PO BOX 36530
HOUSTON , TX 77236

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4043 22

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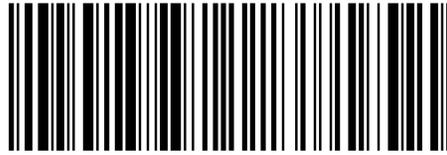


Total Postage: \$6.55

BLOOMQUIST CHARLES
W 730 SEVENTEENTH ST
DENVER , CO 80202

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4043 39

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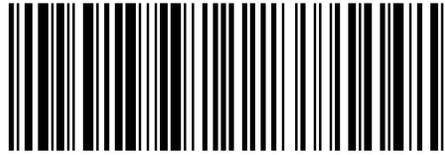


Total Postage: \$6.55

BRAZOS LP
PO BOX 911
BRECKENRIDGE , TX 76424

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4043 46

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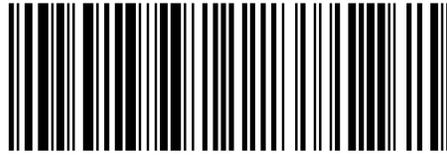


Total Postage: \$6.55

BUREAU OF LAND MANAGEMENT
310 OLD SANTA FE TRAIL
SANTA FE , NM 87504

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4043 53

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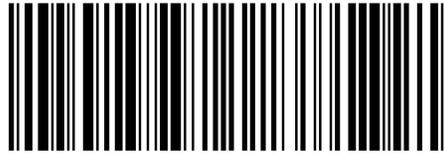


Total Postage: \$6.55

C&A ROYALTIES LP
4849 GREENVILLE AVE STE 1515
DALLAS , TX 75206

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4043 60

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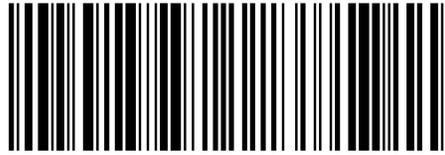


Total Postage: \$6.55

CARLISLE DEE ANN
CARLISLE RICK
2626 NOEL AVE
MIDLAND, TX 79705

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4043 77

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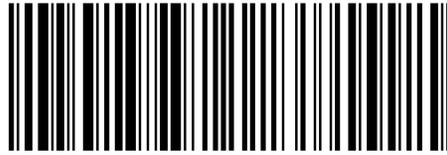


Total Postage: \$6.55

CHEVRON U S A INC
6301 DEAUVILLE BLVD
MIDLAND, TX 79706

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4043 84

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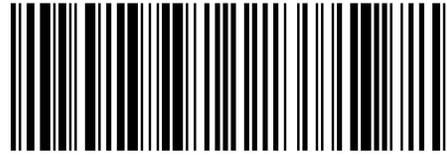


Total Postage: \$6.55

COG OPERATING LLC
600 W ILLINOIS AVE
MIDLAND , TX 79701-4882

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4043 91

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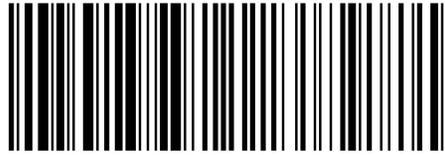


Total Postage: \$6.55

COKINOS ENERGY CORP
5718 WESTHEIMER RD STE 900
HOUSTON, TX 77057

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4044 07

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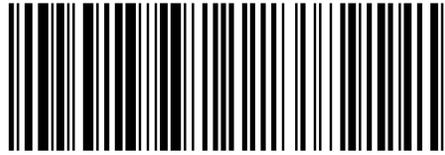


Total Postage: \$6.55

COSTILLA ENERGY
PO BOX 10369
MIDLAND, TX 79702

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4044 14

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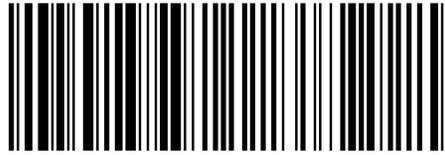


Total Postage: \$6.55

DOMINION OK TX EXL & PROD INC
14000 QUAIL SPRINGS PKWY #600
OKLAHOMA CITY, OK 73124

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4044 21

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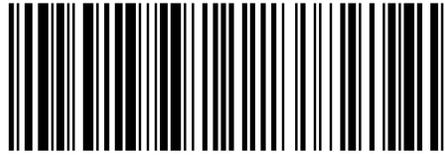


Total Postage: \$6.55

DUER WAGNER & CO
301 COMMERCE ST 3400
FORT WORTH , TX 76102

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4044 38

RETURN RECEIPT (ELECTRONIC)

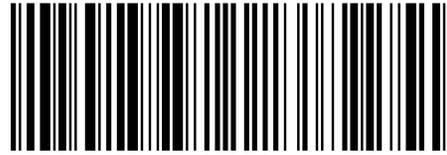


Total Postage: \$6.55

ENERGEN RESOURCES CORP.
605 RICHARD ARRINGTON, JR. BLVD. N
BIRMINGHAM, AL 35202-2707

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4044 45

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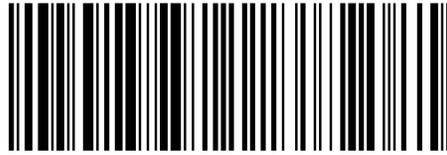


Total Postage: \$6.55

EOG RESOURCES INC
PO BOX 2267
MIDLAND , TX 79702

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4044 52

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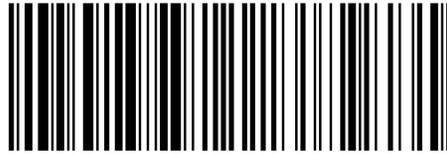


Total Postage: \$6.55

EOG RESOURCES INC
PO BOX 4362
HOUSTON , TX 77210-4362

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4044 69

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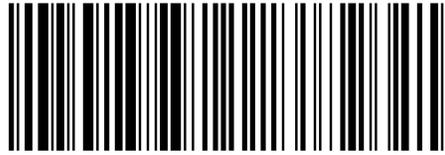


Total Postage: \$6.55

EURAMPEX INDUSTRIES
12001 N CENTRAL EXPY
DALLAS , TX 75243

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4044 76

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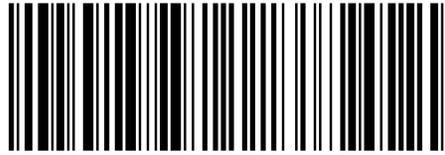


Total Postage: \$6.55

GEODYNE NOMINEE CORP
2 W 2ND ST SAMSON PLZ
TULSA , OK 74103

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4044 83

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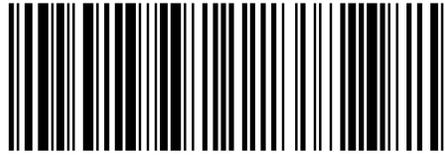


Total Postage: \$6.55

HAWKINS OIL & GAS INC
400 S BOSTON #800
TULSA , OK 74103

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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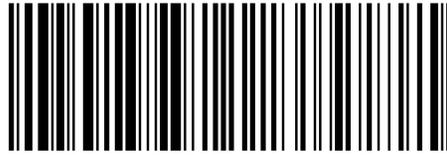


Total Postage: \$6.55

HUIE MARSHA COPE
3502 MARYMONT DR
SAN ANTONIO, TX 78217-3412

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4045 06

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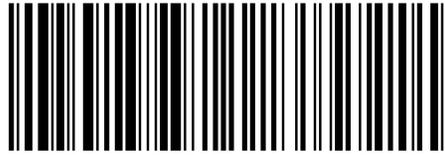


Total Postage: \$6.55

ICA ENERGY INC
PO BOX 223
ODESSA, TX 79760-0233

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4045 13

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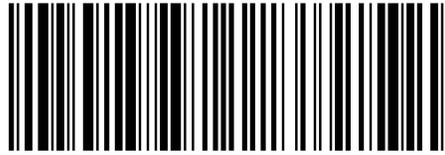


Total Postage: \$6.55

K P ACQUISITION CORP
2040 MURRAY HOLLADAY
SALT LAKE CITY , UT 84117

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4045 20

RETURN RECEIPT (ELECTRONIC)

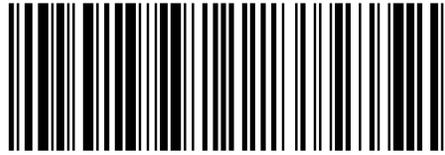


Total Postage: \$6.55

K P ACQUISITION CORP
500 W TEXAS #1450
MIDLAND , TX 79701

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4045 37

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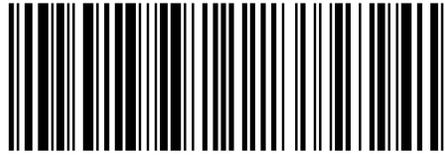


Total Postage: \$6.55

KERR MCGEE CORP
PO BOX 25861
OKLAHOMA CITY , OK 73125

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4045 44

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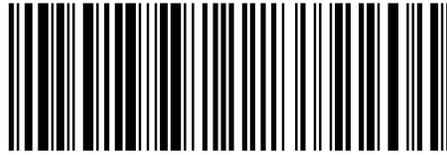


Total Postage: \$6.55

KERRY PETROLEUM CO
2040 MURRAY HOLLADAY
SALT LAKE CITY , UT 84117

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4045 51

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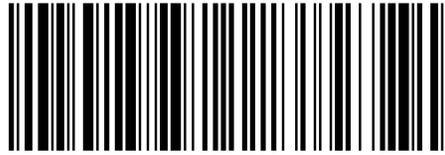


Total Postage: \$6.55

KERRY PETROLEUM CO
500 W TEXAS #1450
MIDLAND , TX 79701

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4045 68

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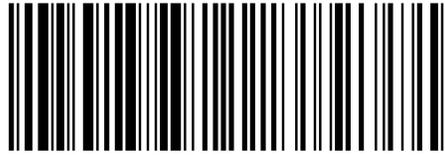


Total Postage: \$6.55

LOVING COUNTY MINERAL LP
111 WEST 75TH STREET
KANSAS CITY , MO 64001

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4045 75

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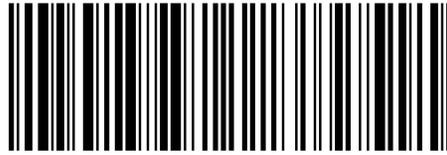


Total Postage: \$6.55

MARSHALL & WINSTON INC
PO BOX 50880
MIDLAND , TX 79710-0880

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4045 82

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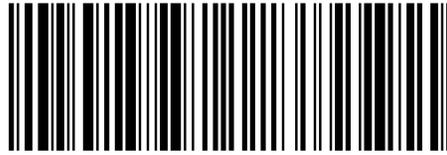


Total Postage: \$6.55

MCRAE & HENRY LTD
730 17TH ST #920
DENVER, CO 80202-3520

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4045 99

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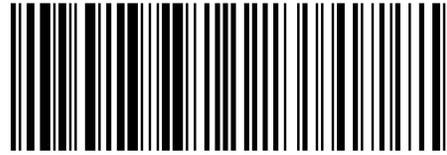


Total Postage: \$6.55

MID-CONTINENT ENERGY
100 W 5TH ST #450
TULSA , OK 74103-4287

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4046 05

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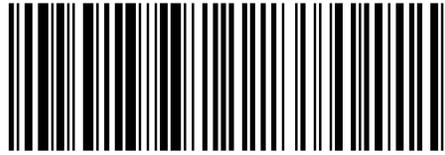


Total Postage: \$6.55

NEW MEXICO STATE LAND OFFICE
310 OLD SANTA FE TRAIL
SANTA FE, NM 87508

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4046 12

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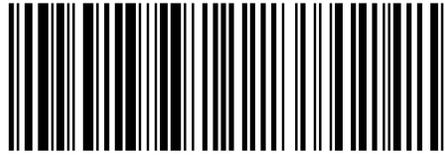


Total Postage: \$6.55

NY LIFE OG OPER PROD
700 LOUISIANA #2100
HOUSTON , TX 77002

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4046 29

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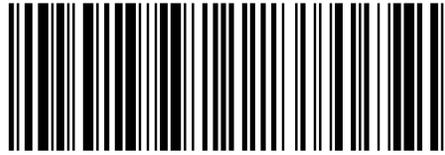


Total Postage: \$6.55

RAGSDALE GEORGE M TRUSTEE
7887 SAN FELIPE #122
HOUSTON , TX 77063

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4046 36

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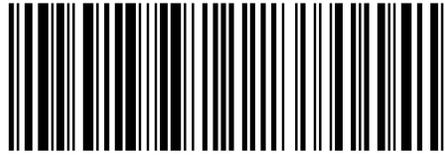


Total Postage: \$6.55

RAGSDALE TOM M
PO BOX 10303
MIDLAND, TX 79702

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4046 43

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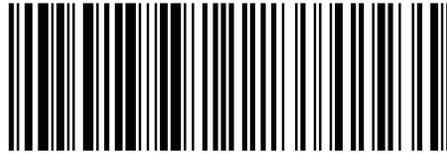


Total Postage: \$6.55

RKI EXPLORATION & PROD LLC
3500 ONE WILLIAMS CTR MD 35
TULSA , OK 74172

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4046 50

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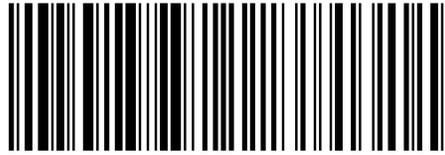


Total Postage: \$6.55

ROYAL OAK OIL & GAS INC
11510 MONTMARTE BLVD
HOUSTON , TX 77082-2764

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4046 67

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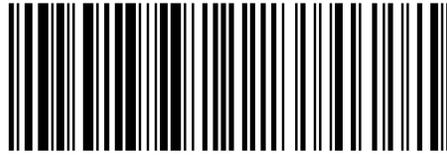


Total Postage: \$6.55

SAMSON RESOURCES CO
2 W SECOND ST
TULSA, OK 74103

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4046 74

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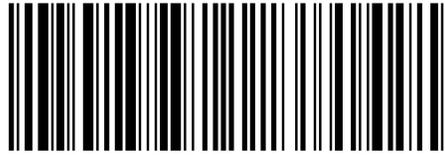


Total Postage: \$6.55

SEELIGSON OIL CO
808 TRAVIS ST #2200
HOUSTON , TX 77002

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4046 81

RETURN RECEIPT (ELECTRONIC)

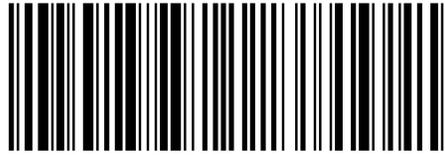


Total Postage: \$6.55

SHIELD DEVELOPMENT CORP
PO BOX 1700
COLDSRING , TX 77331

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4046 98

RETURN RECEIPT (ELECTRONIC)

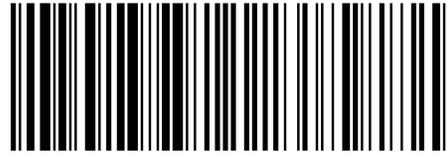


Total Postage: \$6.55

SIANA OPERATING LLC
PO BOX 10303
MIDLAND TX 79702, TX 79702

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4047 04

RETURN RECEIPT (ELECTRONIC)

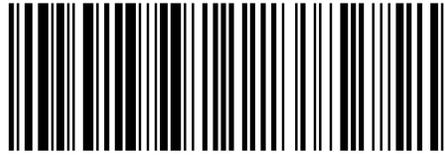


Total Postage: \$6.55

STONESTREET HARDEMAN
2091 E MURRAY
SALT LAKE CITY , UT 84117

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4047 11

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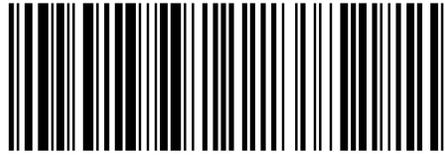


Total Postage: \$6.55

SUBSURFACE INVESTMENTS LP
7887 SAN FELIPE #122
HOUSTON , TX 77063

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4047 28

RETURN RECEIPT (ELECTRONIC)

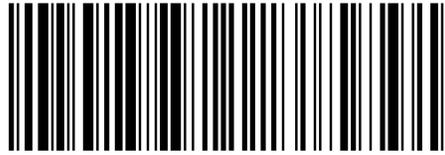


Total Postage: \$6.55

SW COMM INCOME-DRILL
BOX 11390
MIDLAND , TX 79702

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4047 35

RETURN RECEIPT (ELECTRONIC)

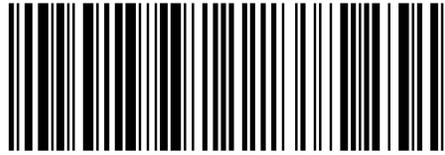


Total Postage: \$6.55

TAP ROCK RESOURCES LLC
602 PARK POINT DR STE 200
GOLDEN , CO 80401-9359

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4047 42

RETURN RECEIPT (ELECTRONIC)

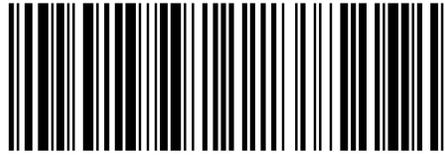


Total Postage: \$6.55

JC WILLIAMSON FAMILY TRUST
PO BOX 10303
MIDLAND , TX 79702

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4047 59

RETURN RECEIPT (ELECTRONIC)

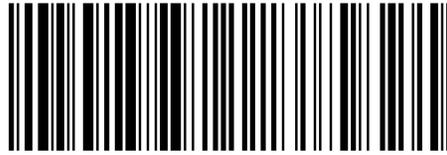


Total Postage: \$6.55

TRAINER C W
PO BOX 3788
MIDLAND, TX 79702-3788

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4047 66

RETURN RECEIPT (ELECTRONIC)

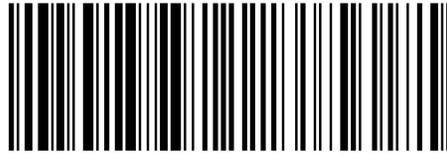


Total Postage: \$6.55

TRAINER JACKIE
PO BOX 754
MIDLAND, TX 79702

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4047 73

RETURN RECEIPT (ELECTRONIC)

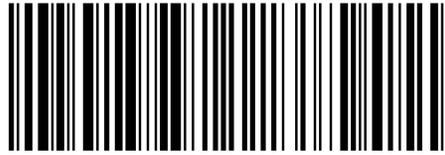


Total Postage: \$6.55

VANTAGE TUBULARS
701 N POST OAK RD #220
HOUSTON , TX 77024

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4047 80

RETURN RECEIPT (ELECTRONIC)

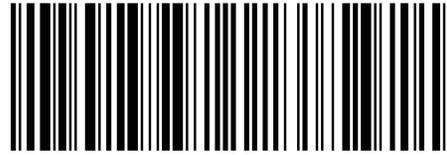


Total Postage: \$6.55

WAGNER DUER III
WAGNER DUER JR
301 COMMERCE ST 3400
FORT WORTH , TX 76102

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4047 97

RETURN RECEIPT (ELECTRONIC)

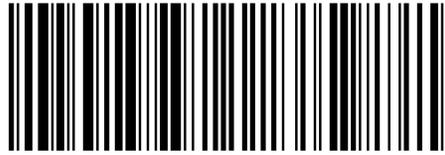


Total Postage: \$6.55

WENK JOHN A
6222 SUGAR HILL DR
HOUSTON , TX 77057

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4048 03

RETURN RECEIPT (ELECTRONIC)

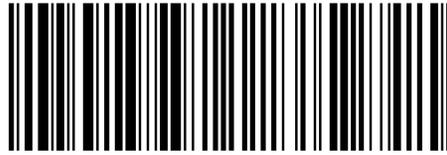


Total Postage: \$6.55

WEST REBEKAH S
4302 LANHAM ST
MIDLAND, TX 79705

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4048 10

RETURN RECEIPT (ELECTRONIC)

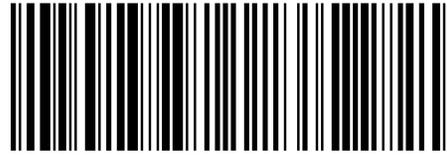


Total Postage: \$6.55

WILLIAMSON CHARLOTTE
BOX 50410
AUSTIN, TX 78763

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4048 27

RETURN RECEIPT (ELECTRONIC)

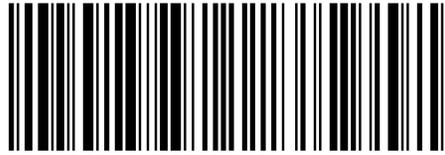


Total Postage: \$6.55

WILLIAMSON J C
214 W TEXAS AVE STE 1250
MIDLAND , TX 79701-4636

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4048 34

RETURN RECEIPT (ELECTRONIC)

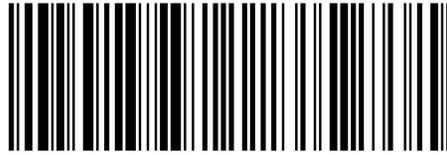


Total Postage: \$6.55

WILLIAMSON J C
LOIS G WILLIAMSON
PO BOX 16
MIDLAND , TX 79702-0016

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4048 41

RETURN RECEIPT (ELECTRONIC)

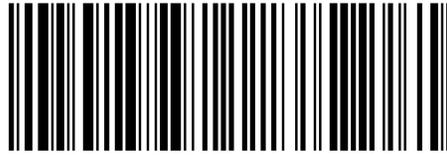


Total Postage: \$6.55

WILLIAMSON RALPH E
PO BOX 994
MIDLAND, TX 79702

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4048 58

RETURN RECEIPT (ELECTRONIC)

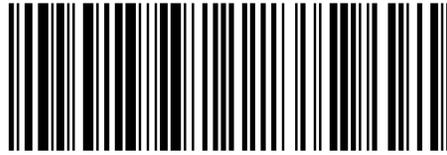


Total Postage: \$6.55

WPX ENERGY PERMIAN LLC
3500 ONE WILLIAMS CTR MD 35
TULSA , OK 74172-0135

Reference Number: 2008-CORDELL FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0061 4048 65

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Total Postage: \$6.55

YUNG KEVIN H
2516 BRANCH OAKS LN
FLOWER MOUND , TX 75028

Reference Number: 2008-CORDELL FED SWD #1

LONQUIST & CO. LLC

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ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

July 19, 2019

ATTWELL INTEREST INC.
P.O. BOX 27225
HOUSTON, TX 77227

Subject: Cordell Fed SWD No. 1 Authorization to Inject

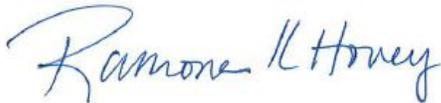
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Any questions should be directed towards Solaris Water Midstream LLC's agent, Lonquist & Co., LLC.

Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

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July 19, 2019

B & W SOUTHERN PETROLEUM
4131 N CENTRAL EXPY
DALLAS, TX 75204

Subject: Cordell Fed SWD No. 1 Authorization to Inject

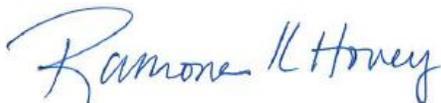
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Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

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HOUSTON

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ADVISORS

WICHITA
CALGARY

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July 19, 2019

BLANCO HOLDINGS I LTD
P.O. BOX 36530
HOUSTON, TX 77236

Subject: Cordell Fed SWD No. 1 Authorization to Inject

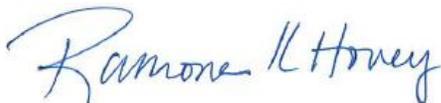
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Regards,



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Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

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HOUSTON

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ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

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July 19, 2019

BRAZOS LP
P.O. BOX 911
BRECKENRIDGE, TX 76424

Subject: Cordell Fed SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Solaris Water Midstream LLC's Cordell Fed SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Regards,



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Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

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HOUSTON

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ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

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July 19, 2019

BUREAU OF LAND MANAGEMENT
620 E GREENE STREET
CARLSBAD, NM 88220

Subject: Cordell Fed SWD No. 1 Authorization to Inject

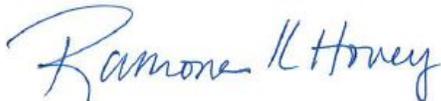
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Lonquist & Co., LLC

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ramona@lonquist.com

LONQUIST & CO. LLC

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HOUSTON

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ADVISORS

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CALGARY

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July 19, 2019

C & A ROYALTIES LP
4849 GREENVILLE AVE STE 1515
DALLAS, TX 75206

Subject: Cordell Fed SWD No. 1 Authorization to Inject

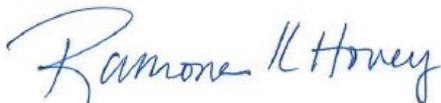
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Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

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WICHITA
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July 19, 2019

C W TRAINER
P.O. BOX 3788
MIDLAND, TX 7970223788

Subject: Cordell Fed SWD No. 1 Authorization to Inject

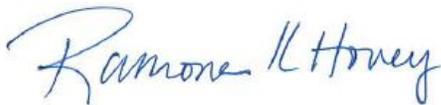
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Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 19, 2019

CHARLES BLOOMQUIST
W 730 SEVENTEENTH STREET
DENVER, CO 80202

Subject: Cordell Fed SWD No. 1 Authorization to Inject

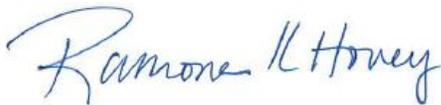
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Regards,



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Sr. Petroleum Engineer
Lonquist & Co., LLC

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ramona@lonquist.com

LONQUIST & CO. LLC

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WICHITA
CALGARY

www.lonquist.com

July 19, 2019

CHARLOTTE WILLIAMSON
BOX 50410
AUSTIN, TX 78763

Subject: Cordell Fed SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Sr. Petroleum Engineer
Lonquist & Co., LLC

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ramona@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

July 19, 2019

CHEVRON USA INC.
6301 DEAUVILLE BLVD
MIDLAND, TX 79706

Subject: Cordell Fed SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Solaris Water Midstream LLC's Cordell Fed SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

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HOUSTON

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ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

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July 19, 2019

COG OPERATING LLC
600 W ILLINOIS AVE
MIDLAND, TX 797014882

Subject: Cordell Fed SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 19, 2019

COKINOS ENERGY CORP
5718 WESTHEIMER RD STE 900
HOUSTON, TX 770575757

Subject: Cordell Fed SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Lonquist & Co., LLC

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ramona@lonquist.com

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ENERGY
ADVISORS

WICHITA
CALGARY

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July 19, 2019

COSTILLA ENERGY
P.O. BOX 10369
MIDLAND, TX 79702

Subject: Cordell Fed SWD No. 1 Authorization to Inject

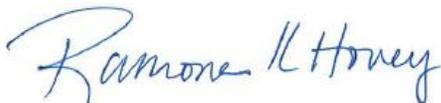
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Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 19, 2019

DAVID BARR
1885 ANTIOCH RD
FRANKLIN, GA 30217

Subject: Cordell Fed SWD No. 1 Authorization to Inject

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July 19, 2019

DEE ANN CARLISLE
2626 NOEL AVE
MIDLAND, TX 79705

Subject: Cordell Fed SWD No. 1 Authorization to Inject

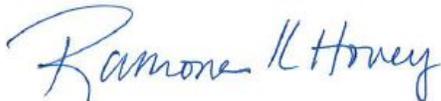
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July 19, 2019

DOMINION OK TX EXPL & PROD INC
14000 QUAIL SPRINGS PKWY #600
OKLAHOMA CITY, OK 73124

Subject: Cordell Fed SWD No. 1 Authorization to Inject

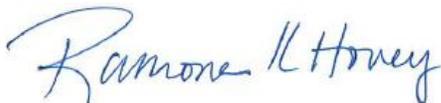
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July 19, 2019

DUER WAGNER & CO
301 COMMERCE ST 3400
FORT WORTH, TX 76102

Subject: Cordell Fed SWD No. 1 Authorization to Inject

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July 19, 2019

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301 COMMERCE ST 3400
FORT WORTH, TX 76102

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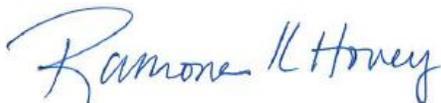
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(512) 600-1777
ramona@lonquist.com

July 19, 2019

DUER WAGNER JR
301 COMMERCE ST 3400
FORT WORTH, TX 76102

Subject: Cordell Fed SWD No. 1 Authorization to Inject

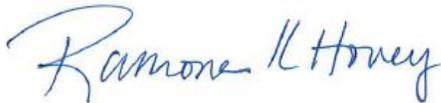
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ramona@lonquist.com

July 19, 2019

ENERGEN RESOURCES CORP.
605 RICHARD ARRINGTON, JR. BLVD. NORTH
BIRMINGHAM, AL 352022707

Subject: Cordell Fed SWD No. 1 Authorization to Inject

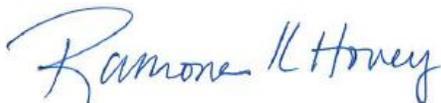
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July 19, 2019

EOG RESOURCES INC
PO BOX 2267
MIDLAND, TX 79702

Subject: Cordell Fed SWD No. 1 Authorization to Inject

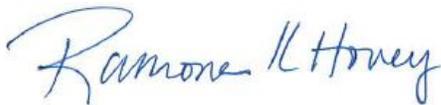
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July 19, 2019

EURAMPEX INDUSTRIES
12001 N CENTRAL EXPY
DALLAS, TX 75243

Subject: Cordell Fed SWD No. 1 Authorization to Inject

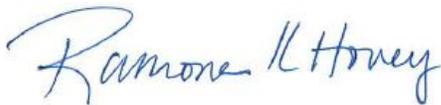
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July 19, 2019

GEODYNE NOMINEE CORP
2 W 2ND ST SAMSON PLZ
TULSA, OK 74103

Subject: Cordell Fed SWD No. 1 Authorization to Inject

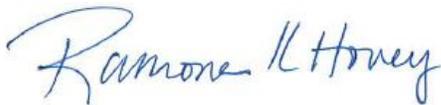
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July 19, 2019

HAWKINS OIL & GAS INC
400 S BOSTON #800
TULSA, OK 74103

Subject: Cordell Fed SWD No. 1 Authorization to Inject

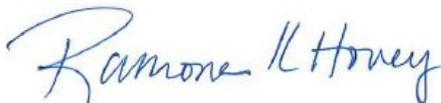
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July 19, 2019

ICA ENERGY INC
PO BOX 223
ODESSA, TX 797600233

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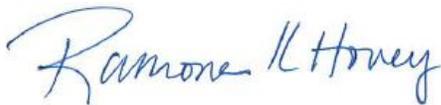
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July 19, 2019

J C WILLIAMSON
PO BOX 223
ODESSA, TX 797020016

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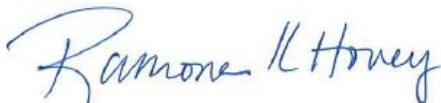
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214 W TEXAS AVE STE 1250
MIDLAND, TX 79702

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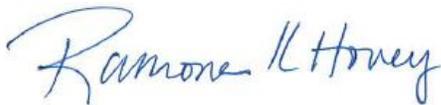
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July 19, 2019

JACKIE TRAINER
PO BOX 754
MIDLAND, TX 79702

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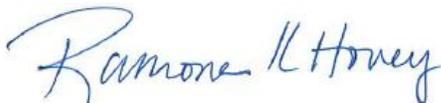
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July 19, 2019

JOHN A WENK
6222 SUGAR HILL DR
HOUSTON, TX 79705

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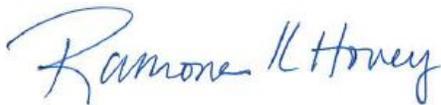
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July 19, 2019

K P ACQUISITION CORP
500 W TEXAS #1450
MIDLAND, TX 79701

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K P ACQUISITION CORP
2040 MURRAY HOLLADAY
SALT LAKE CITY, UT 84117

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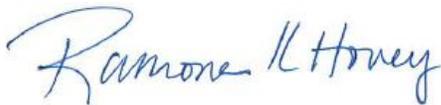
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KERR MCGEE CORP
PO BOX 25861
OKLAHOMA CITY, OK 73125

Subject: Cordell Fed SWD No. 1 Authorization to Inject

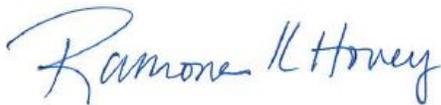
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July 19, 2019

KEVIN H YUNG
2516 BRANCH OAKS LN
FLOWER MOUND, TX 75028

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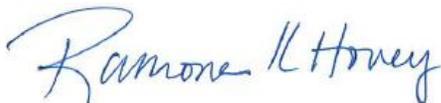
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Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
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ADVISORS

WICHITA
CALGARY

www.lonquist.com

July 19, 2019

LISA BARR
1885 ANTIOCH RD
FRANKLIN, GA 30217

Subject: Cordell Fed SWD No. 1 Authorization to Inject

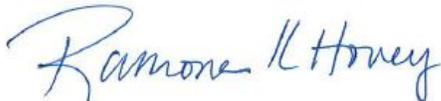
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July 19, 2019

LOIS G WILLIAMSON
PO BOX 16
MIDLAND, TX 797020016

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July 19, 2019

LOVING COUNTY MINERAL LP
111 WEST 75TH STREET
KANSAS CITY, MO 64114

Subject: Cordell Fed SWD No. 1 Authorization to Inject

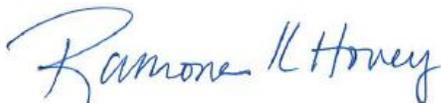
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July 19, 2019

MARSHALL & WINSTON INC
PO BOX 50880
MIDLAND, TX 797100880

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July 19, 2019

MARSHA COPE HUIE
3502 MARYMONT DR
SAN ANTONIO, TX 782173412

Subject: Cordell Fed SWD No. 1 Authorization to Inject

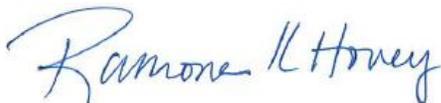
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July 19, 2019

MCRAE & HENRY LTD
730 17TH ST #920
DENVER, CO 802023520

Subject: Cordell Fed SWD No. 1 Authorization to Inject

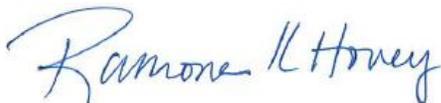
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July 19, 2019

MID CONTINENT ENERGY
100 W 5TH ST #450
TULSA, OK 741034287

Subject: Cordell Fed SWD No. 1 Authorization to Inject

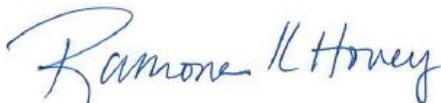
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NY LIFE OG OPER PROD
700 LOUISIANA #2100
HOUSTON, TX 77002

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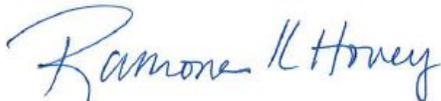
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July 19, 2019

OIL CONSERVATION DIVISION DISTRICT II
811 S. First St.
Artesia NM, 88210

Subject: Cordell Fed SWD No. 1 Authorization to Inject

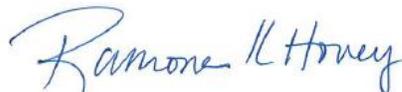
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July 19, 2019

OIL CONSERVATION DIVISION DISTRICT IV
1220 S St Frances Dr
Santa Fe NM, 87505

Subject: Cordell Fed SWD No. 1 Authorization to Inject

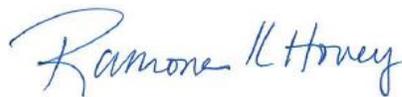
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July 19, 2019

RAGSDALE GEORGE M TRUSTEE
7887 SAN FELIPE #122
HOUSTON, TX 77063

Subject: Cordell Fed SWD No. 1 Authorization to Inject

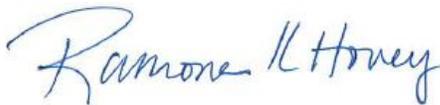
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July 19, 2019

RALPH WILLIAMSON
BOX 994
MIDLAND TX 79702

Subject: Cordell Fed SWD No. 1 Authorization to Inject

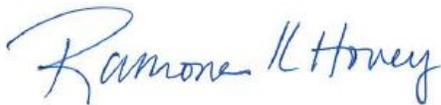
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July 19, 2019

REBEKAH S WEST
4302 LANHAM ST
MIDLAND, TX 79705

Subject: Cordell Fed SWD No. 1 Authorization to Inject

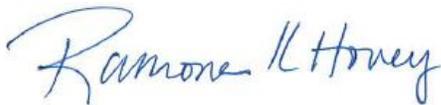
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July 19, 2019

RICK CARLISLE
2626 NOEL AVE
MIDLAND, TX 79705

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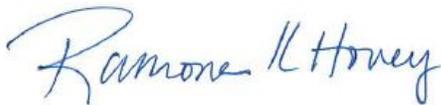
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July 19, 2019

RKI EXPLORATION & PRODUCTION LLC
3500 ONE WILLIAMS CTR
TULSA, OK 74172

Subject: Cordell Fed SWD No. 1 Authorization to Inject

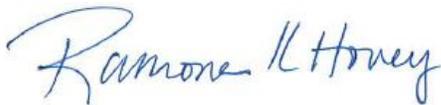
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July 19, 2019

ROYAL OAK OIL & GAS INC
11510 MONTMARTE BLVD
HOUSTON, TX 770822764

Subject: Cordell Fed SWD No. 1 Authorization to Inject

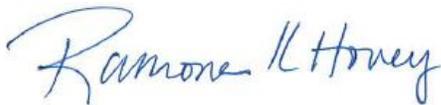
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July 19, 2019

SAMSON RESOURCES CO
2 W SECOND ST
TULSA, OK 74103

Subject: Cordell Fed SWD No. 1 Authorization to Inject

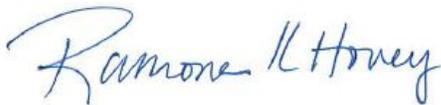
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July 19, 2019

SEELIGSON OIL CO
808 TRAVIS ST #2200
HOUSTON, TX 77002

Subject: Cordell Fed SWD No. 1 Authorization to Inject

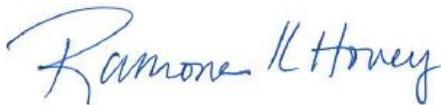
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SHIELD DEVELOPMENT CORP
PO BOX 1700
COLDSRING, TX 77331

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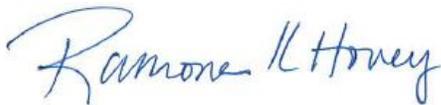
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July 19, 2019

SIANA OPERATING LLC
PO BOX 10303
MIDLAND , TX 79702

Subject: Cordell Fed SWD No. 1 Authorization to Inject

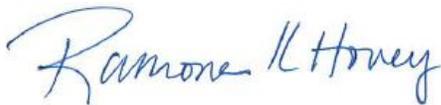
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STONESTREET HARDEMAN
2091 E MURRAY
SALT LAKE CITY, UT 84117

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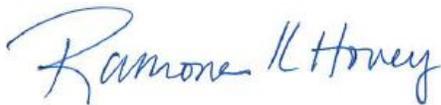
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Any questions should be directed towards Solaris Water Midstream LLC's agent, Lonquist & Co., LLC.

Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

July 19, 2019

SUBSURFACE INVESTMENTS LP
7887 SAN FELIPE #122
HOUSTON, TX 77063

Subject: Cordell Fed SWD No. 1 Authorization to Inject

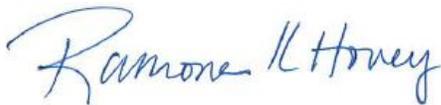
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July 19, 2019

SW COMM INCOME-DRILL
BOX 11390
MIDLAN, TX 79702

Subject: Cordell Fed SWD No. 1 Authorization to Inject

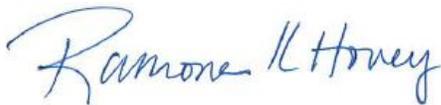
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CALGARY

www.lonquist.com

July 19, 2019

TAP ROCK RESOURCES LLC
602 PARK POINT DRIVE SUITE 200
GOLDEN, CO 80401

Subject: Cordell Fed SWD No. 1 Authorization to Inject

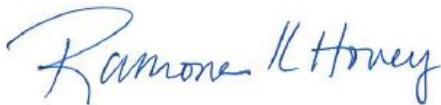
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CALGARY

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July 19, 2019

THE JC WILLIAMS FAMILY TRUST
PO BOX 10303
MIDLAND, TX 79702

Subject: Cordell Fed SWD No. 1 Authorization to Inject

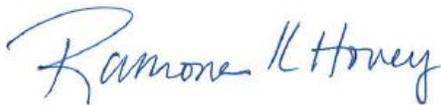
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Regards,



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ENGINEERS

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ADVISORS

WICHITA
CALGARY

www.lonquist.com

July 19, 2019

TRACY ANDERSON
PO BOX 2027
GRANBURY, TX 76048

Subject: Cordell Fed SWD No. 1 Authorization to Inject

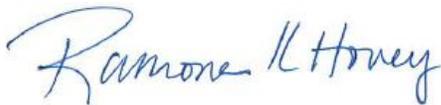
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Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

July 19, 2019

TOM M RAGSDALE
PO BOX 10303
MIDLAND, TX 79702

Subject: Cordell Fed SWD No. 1 Authorization to Inject

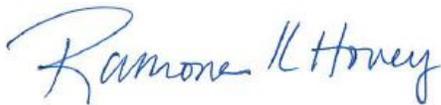
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Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 19, 2019

VANTAGE TUBULARS
701 N POST OAK RD #220
HOUSTON, TX 77024

Subject: Cordell Fed SWD No. 1 Authorization to Inject

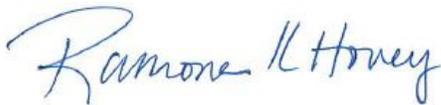
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Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 19, 2019

WPX ENERGY PERMIAN LLC
3500 ONE WILLIAMS CTR
TULSA, OK 741720135

Subject: Cordell Fed SWD No. 1 Authorization to Inject

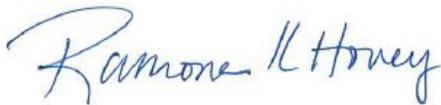
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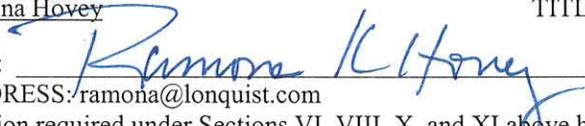
Regards,



Ramona K. Hovey
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: Solaris Water Midstream, LLC
ADDRESS: 701 Tradewinds Blvd., Suite C, Midland, TX 79706
CONTACT PARTY: Whitney McKee PHONE: 432-203-9020
- 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 _____ 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: Ramona Hovey TITLE: Consulting Engineer – Agent for Solaris Water Midstream
SIGNATURE:  DATE: 7/22/2019
E-MAIL ADDRESS: ramona@lonquist.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: _____

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.

INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLCWELL NAME & NUMBER: Cordell Fed SWD No. 1WELL LOCATION: 300' FNL 275' FWL
FOOTAGE LOCATIOND
UNIT LETTER35
SECTION26S
TOWNSHIP30E
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 18.125"Casing Size: 16.00"Cemented with: 678 sx.*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationIntermediate CasingHole Size: 14.750"Casing Size: 13.375"Cemented with: 716 sx.*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationProduction CasingHole Size: 12.250"Casing Size: 9.625"Cemented with: 4606 sx.*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationLinerHole Size: 8.500"Casing Size: 7.625"Cemented with: 375 sx.*or* _____ ft³Top of Cement: 11.850'Method Determined: calculationTotal Depth: 18.134'Injection Interval16,334 feet to 18,134 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' - 11,650' and 5", 18 lb/ft, HCL-80, LTC from 11,650' - 16,284'

Lining Material: Duoline

Type of Packer: Nickel Plated Double Grip Retrievable Packer or Equivalent

Packer Setting Depth: 16,284'

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: Devonian, Fusselman

3. Name of Field or Pool (if applicable): SWD; Devonian-Silurian 97869

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, new drill.

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

Bell Canyon: 3,481'

Cherry Canyon: 4,401'

Bone Spring: 7,365'

Wolfcamp: 11,950'

Strawn: 13,415'

Atoka: 13,526'

Morrow: 14,194'

Mississippian Lime 16,012'

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-8161 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

FED of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number	Pool Code 97869	Pool Name Devonian-Silurian
Property Code	Property Name CORDELL FED SWD	Well Number 1
OGRID No. 371643	Operator Name SOLARIS WATER MIDSTREAM	Elevation 2993'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	26 S	30 E		300	NORTH	275	WEST	EDDY

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	Consolidation Code	Order No.
-----------------	-----------------	--------------------	-----------

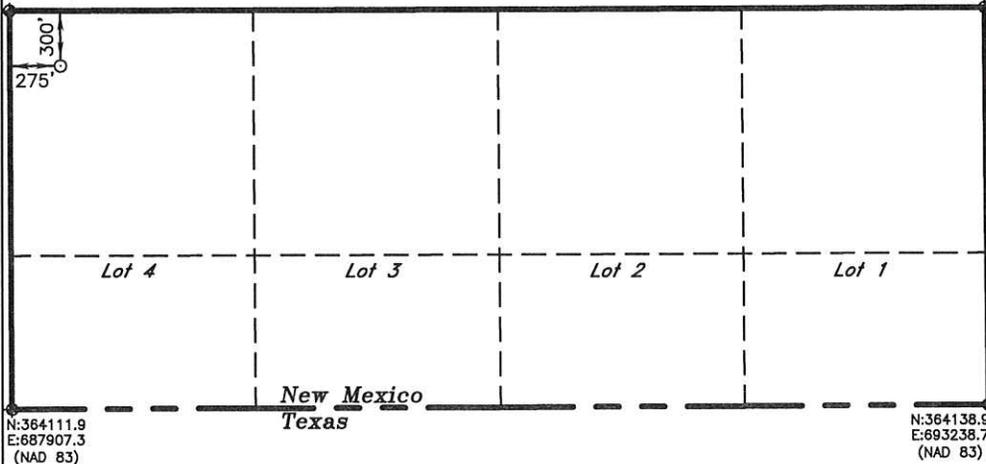
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SURFACE LOCATION

Lat - N 32.005257°
Long - W 103.859625°
NMSPC- N 365974.1
E 688178.1
(NAD-83)

N:366272.4
E:687897.6
(NAD 83)

N:366293.4
E:693228.3
(NAD 83)



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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Ramona Hobey
Signature Date
Ramona Hobey
Printed Name
ramona@longquist.com
Email Address

SURVEYOR 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.

APR 12, 2019
Date Surveyed
Signature of Surveyor
Professional Surveyor
7977
Certificate No. Gary L. Jones 7977
District Surveyor

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 34497

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

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 1000 Rio Brazos Road, Aztec, NM 87410
 Phone: (505) 334-6178 Fax: (505) 334-6170

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 1220 S. St. Francis Dr., Santa Fe, NM 87505
 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
 Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address SOLARIS WATER MIDSTREAM, LLC 701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706		² OGRID Number 371643
		³ API Number TBD
⁴ Property Code	⁵ Property Name CORDELL FED SWD	⁶ Well No. 1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	35	26 S	30 E		300	N	275	W	EDDY

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
-	-	-	-		-	-	-	-	-

9. Pool Information

Pool Name SWD; Devonian-Silurian	Pool Code 97869
-------------------------------------	--------------------

Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type BLM	¹⁵ Ground Level Elevation 2993'
¹⁶ Multiple N	¹⁷ Proposed Depth 18,134'	¹⁸ Formation Devonian-Silurian	¹⁹ Contractor TBD	²⁰ Spud Date ASAP
Depth to Ground water 180'		Distance from nearest fresh water well 2.14 miles		Distance to nearest surface water >1 mile

We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

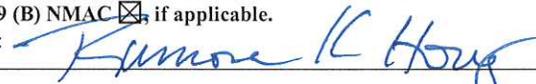
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	18.125"	16"	84 lb/ft	675'	678	Surface
Intermediate	14.75"	13.375"	68 lb/ft	3,460'	716	Surface
Production	12.25"	9.625"	53.5 lb/ft	12,050'	4606	Surface
Liner	8.5"	7.625"	39 lb/ft	11,850'-16,334'	375	11,850
Tubing		5.5" & 5"	20 lb/ft & 18 lb/ft	0' - 11,650' & 11,650' - 16,284'	N/A	

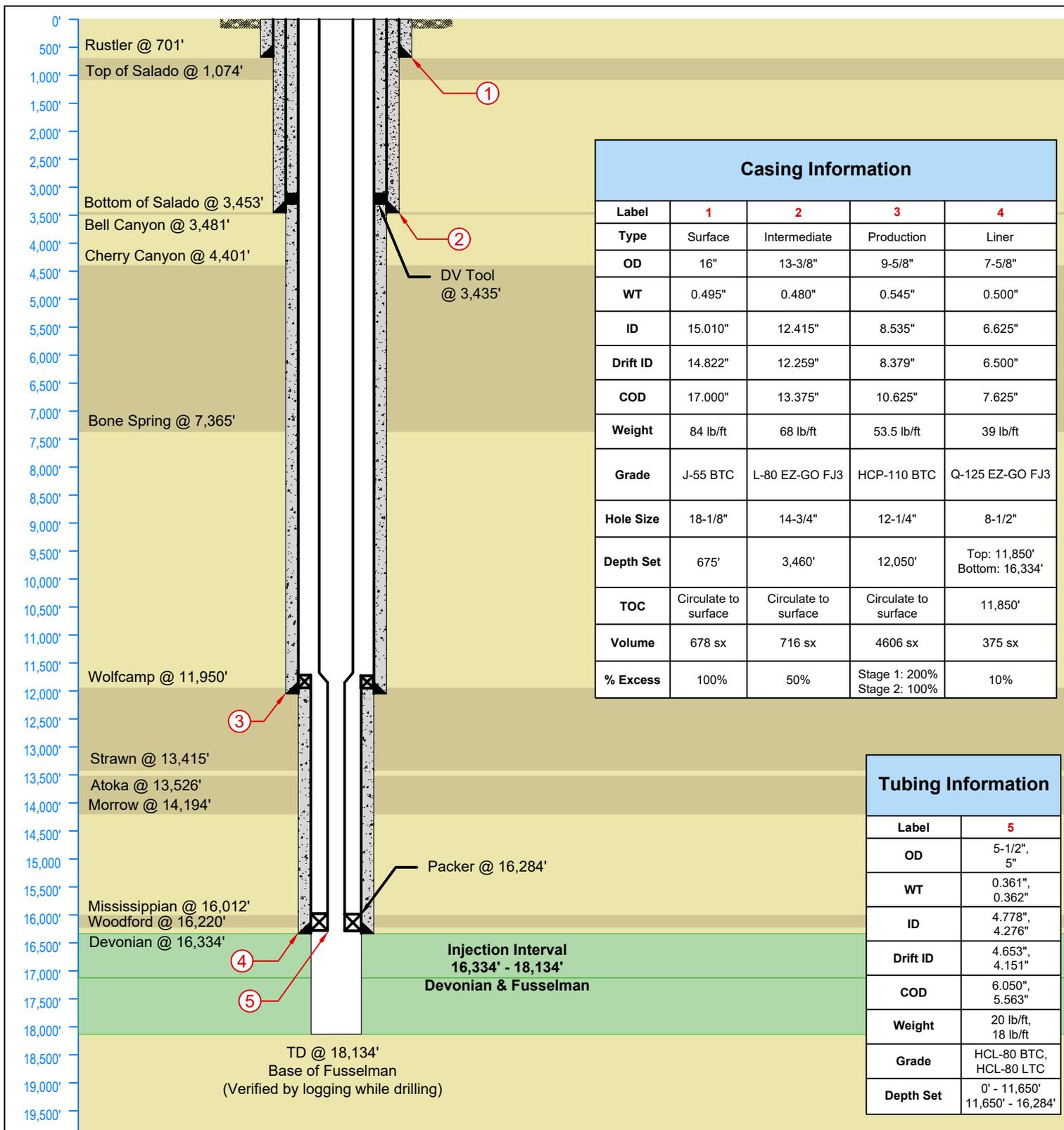
Casing/Cement Program: Additional Comments

See attached schematic.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Hydraulic/Blinds, Pipe	8,000 psi	10,000 psi	TBD - Schaffer/Cameron

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature:  Printed name: Ramona Hovey Title: Consulting Engineer E-mail Address: ramona@lonquist.com Date: July 19, 2018	OIL CONSERVATION DIVISION	
	Approved By:	
	Title:	
	Approved Date:	Expiration Date:
	Conditions of Approval Attached	
	Phone: 512-600-1777	



LONQUIST & CO. LLC PETROLEUM ENGINEERS ENERGY ADVISORS HOUSTON CALGARY AUSTIN WICHITA DENVER Texas License F-9147 12912 Hill Country Blvd. Ste F-200 Austin, Texas 78738 Tel: 512.732.9812 Fax: 512.732.9816	Solaris Water Midstream, LLC		Cordell Fed SWD No. 1	
	Country: USA	State/Province: New Mexico	County/Parish: Eddy	
	Location:	Site: 300' FNL & 275' FWL	Survey: S35-T26S-R30E	
	API No: NA	Field: Devonian-Silurian (Code: 97869)	Well Type/Status: SWD	
	NMOCD District No: 2	Project No: 2008	Date: 7/16/2019	
Drawn: TFM	Reviewed:	Approved:		
Rev No: 1	Notes:			

GEOLOGIC AFFIRMATION

I have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and underground sources of drinking water.



Parker Jessee
Geologist

Project: Solaris Water Midstream, LLC
Cordell Fed #1



Solaris Water Midstream, LLC

Cordell Fed SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Cordell Fed SWD
Well No.	1
Location	S-35 T-26S R-30E
Footage Location	300' FNL & 275' FWL

2.

a. Wellbore Description

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	16"	13.375"	9.625"	7.625"
WT	0.495"	0.480"	0.545"	0.500"
ID	15.010"	12.415"	8.535"	6.625"
Drift ID	14.822"	12.259"	8.379"	6.500"
COD	17.000"	13.375"	10.625"	7.625"
Weight	84 lb/ft	68 lb/ft	53.5 lb/ft	39 lb/ft
Grade	J-55 BTC	L-80, EZ-GO FJ3	HCP-110 BTC	Q-125 EZ-GO FJ3
Hole Size	18.125"	14.75"	12.25"	8.5"
Depth Set	675'	3,460'	12,050'	11,850' – 16,334'

b. Cementing Program

Casing String	Surface	Intermediate	Production	Liner
Lead Cement	HALCEM™	HALCEM™	NEOCEM™ IL2	NEOCEM™
Lead Cement Volume (sacks)	367	501	Stage 1: 2614 Stage 2: 637	-
Lead Cement Density (ft3/sack)	1.664	1.664	Stage 1: 2.731 Stage 2: 2.732	-
Tail Cement	HALCEM™	HALCEM™	NEOCEM™/HALCEM™	VERSACEM™
Tail Cement Volume (sacks)	311	215	Stage 1: 920 Stage 2: 434	375
Tail Cement Density (ft3/sack)	1.332	1.332	Stage 1: 1.056 Stage 2: 1.336	1.223
Cement Excess	100%	50%	200%, 100%	10%
Total Sacks	678	716	4606	375
TOC	Surface	Surface	Surface	11,850'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

Tubing Information	
OD	5.5" 5.0"
WT	0.361" 0.362"
ID	4.778" 4.276"
Drift ID	4.653" 4.151"
COD	6.050" 5.563"
Weight	20 lb/ft 18 lb/ft
Grade	HCL-80 BTC HCL-80 LTC
Depth Set	0' – 11,650' 11,650' – 16,284'

Tubing will be lined with Duoline.

4. Packer Description

Nickel Plated Double Grip Retrievable Packer or Equivalent

B. Completion Information

1. Injection Formation: Devonian, Fusselman
2. Gross Injection Interval: 16,334' – 18,134'

Completion Type: Open Hole

3. Drilled for injection.
4. See the attached wellbore schematic.
5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Bell Canyon	3,481'
Cherry Canyon	4,401'
Bone Spring	7,365'
Wolfcamp	11,950'
Strawn	13,415'
Atoka	13,526'
Morrow	14,194'
Mississippian Lime	16,012'

VI. Area of Review

No wells within the area of review penetrate the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injected:

Average Volume: 30,000 BPD
Maximum Volume: 40,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

Average Injection Pressure: 2,450 PSI (surface pressure)
Maximum Injection Pressure: 3,267 PSI (surface pressure)

4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Avalon, Bone Spring, and Delaware formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Avalon, Bone Spring, Delaware, Morrow, and Wolfcamp.
5. The disposal interval is non-productive. No water samples are available from the surrounding area.

VIII. Geological Data

Devonian Formation Lithology:

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a tremendous Salt Water Disposal horizon.

Fusselman Formation Lithology:

The Silurian/Ordovician Fusselman Formation is stratigraphically below the Wristen Group and is above and separated from the Montoya Formation by the Sylvan Shale. The Sylvan Shale is the lower confining layer for the proposed well. Fusselman facies include a laminated skeletal wackestone in the upper part and a buildup complex in the lower part composed of ooid and bryozoan grainstones. These grainstones can also be potentially prolific zones for disposal.

A. Injection Zone: Devonian-Silurian Formation

Formation	Depth
Rustler	701'
Salado (Top of Salt)	1,074'
Salado (Bottom of Salt)	3,453'
Bell Canyon	3,481'
Cherry Canyon	4,401'
Bone Spring	7,365'
Wolfcamp	11,950'
Strawn	13,415'
Atoka	13,526'
Morrow	14,194'
Mississippian_Lime	16,012'
Woodford	16,220'
Devonian	16,334'

B. Underground Sources of Drinking Water

No water wells exist within a one-mile radius of the proposed well. Water wells outside a one-mile radius in the surrounding area have an average depth of 440 feet and an average water depth of 180 feet generally producing from the Carlsbad Basin. The upper Rustler may also be another USDW and will be protected.

IX. Proposed Stimulation Program

50,000 gallon acid job

X. Logging and Test Data on the Well

There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

Because there are no water wells that exist within a one-mile radius of the proposed well, chemical analysis of fresh water wells was not retrieved for the proposed well.

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Friday, July 26, 2019 8:45 AM
To: 'Chris Weyand'
Cc: Ramona Hovey; Jones, William V, EMNRD; Goetze, Phillip, EMNRD
Subject: Solaris Water Midstream Cordell SWD Well No. 1

Ramona and Chris:

The OCD is concerned about notice to the BLM for the Solaris Water Midstream Cordell SWD Well No. 1. Pages 22 and 35 of your application shows the BLM address as 310 Old Santa Fe Trail Santa Fe NM-this is the address for the NMSLO. Page 92 shows a letter addressed to the Carlsbad Field Office.

Until you can provide proper notice to the BLM, your application is suspended

Mike

Michael McMillan
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Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us