Initial Application Part I

Received 8/7/18

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

AUG 07 2018 PM03:19

AUG 07 2018 PM03:19

DATE IN 8/07/2018	SUSPENSE	ENGINEER	LOGGED IN 8/07/2018	TYPE SWD	APP NO. pMAM1821959324

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify ______________________

-SWD
-Solaris Water Midstream 371643
Well
-Steelbase SWD #1
30-015-Pending
Pool
-SWD; Devonian Silurian
97869

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

J. Daniel Arthur, P.E., SPEC	[signature]	Consulting Engineer - ALL Consulting	07/24/2018
Print or Type Name	Signature	Title	Date

darthur@all-llc.co,
e-mail Address

ALL CONSULTING
GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY
ENGINEERING · ENVIRONMENTAL

August 2, 2018

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

Subject: Solaris – Steel Dust SWD #1 – Application for Authorization to Inject

To Whom It May Concern,

On behalf of Solaris Water Midstream, LLC (Solaris), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Steel Dust SWD #1, a proposed salt water disposal well, in Eddy County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or nalleman@all-llc.com.

Sincerely,
ALL Consulting

Nate Alleman
Project Manager

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance __X__ Disposal _____ Storage
Application qualifies for administrative approval? __X__ Yes _____ No

II. OPERATOR: Solaris Water Midstream, LLC

ADDRESS: 9811 Katy Freeway, Suite 900, Houston, TX 77024

CONTACT PARTY: Bonnie Atwater 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 __X__ No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

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

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

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

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

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

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

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Bonnie Atwater TITLE: Reg. Tech.

SIGNATURE: Bonnie Atwater DATE: 7.26.18

E-MAIL ADDRESS: bonnie.atwater@solarismidstream.com

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

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

III. WELL DATA

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

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

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

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

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

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

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

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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

Application for Authorization to Inject

Well Name: Steel Dust SWD #1

III – Well Data (*The Wellbore Diagram is included as **Attachment 1***)

A.

(1) General Well Information:

Operator: Solaris Water Midstream, LLC

Lease Name & Well Number: Steel Dust SWD #1

Well Footage: 202' FNL & 346' FWL

Location: S32 T23S R27E

(2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	24"	20"	94.0 lb/ft	455'	400	Surface	Circulation
Intermediate 1	17-1/2"	13-3/8"	54.5 lb/ft	2,035'	1,225	Surface	Circulation
Intermediate 2	12-1/4"	9-5/8"	53.50 lb/ft	10,300'	2,800	Surface	Circulation
Liner	8-1/2 "	7-5/8"	39 lb/ft	13,050'	225	10,100' (TOL)	CBL

(3) Tubing Information:

5-1/2" (23#) Internal Plastic Coated Tubing swedged down to 5" (18#) with setting depth of 13,030'

(4) Packer Information: Lok-set or equivalent packer set at 13,030'

B.

(1) Injection Formation Name: Devonian and Silurian-Fusselman formations
(2) Injection Interval: Open-hole injection between 13,050' – 14,070'
(3) Drilling Purpose: New Drill for Salt Water Disposal
(4) Other Perforated Intervals: No other perforated intervals exist.
(5) Overlying Oil and Gas Zones:

- Delaware (2,035')
- Bone Springs (5,435')
- Wolfcamp (8,860')
- Atoka (10,910')
- Morrow (11,410')

Underlying Oil and Gas Zones: No underlying oil and gas zones exist.

V – Well and Lease Maps

A well map and lease map are included in ***Attachment 2***.

VI – AOR Well List

A list of the wells within the 1-mile AOR is included in ***Attachment 2***.

VII – Proposed Operation

(1) **Proposed Maximum Injection Rate:** 30,000 bpd
Proposed Average Injection Rate: 15,000 bpd
(2) A **closed system** will be used.
(3) **Proposed Maximum Injection Pressure**: 2,610 psi (surface)
Proposed Average Injection Pressure: approximately 1,500 – 2,000 psi (surface)
(4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Wolfcamp and Bone Springs formations. Analysis of water from these formations is included in ***Attachment 3***.
(5) **Injection Formation Water Analysis:** The proposed well will be injecting water into the Devonian and Silurian-Fusselman formations which is known to be compatible with formation water from the Wolfcamp and Bone Springs formations. Water analyses from the Silurian-Fusselman could not be located; however, water analysis from the Devonian formation in the area are included in ***Attachment 4***.

VIII – Geologic Description

The proposed injection interval includes the Devonian and Silurian-Fusselman formations from 13,050 – 14,070 feet. These formations consist of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thick sections of porous dolomite capable of taking water are present within the subject formations in the area.

The freshwater formation is the Rustler at a depth of approximately 430 feet. Water well depths in the area range from approximately 119 - 180 feet below ground surface.

IX – Proposed Stimulation Program

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

X – Logging and Test Data

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

XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, 2 groundwater wells are located within 1-mile of the proposed SWD location. Attempts to contact the water well owners were unsuccessful and a field visit did not reveal any evidence of water wells in the depicted locations. Therefore, no water well samples were collected.

A water well map of the area and an associated list of water well data is included in ***Attachment 5***.

XII – No Hydrologic Connection Statement

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs. A letter from a knowledgeable and qualified expert stating that there is a low risk of seismic activity from the proposed injection activities is included in ***Attachment 6***.

XIII – Proof of Notice

A Public Notice was filed with the Carlsbad Current-Argus newspaper and an affidavit is included in ***Attachment 7***.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operator within 1-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in ***Attachment 7***.

Attachments

Attachment 1: Wellbore Diagram

Attachment 2: Area of Review Well Map, Lease Map, and Well Details

Attachment 3: Source Water Analyses

Attachment 4: Injection Formation Water Analyses

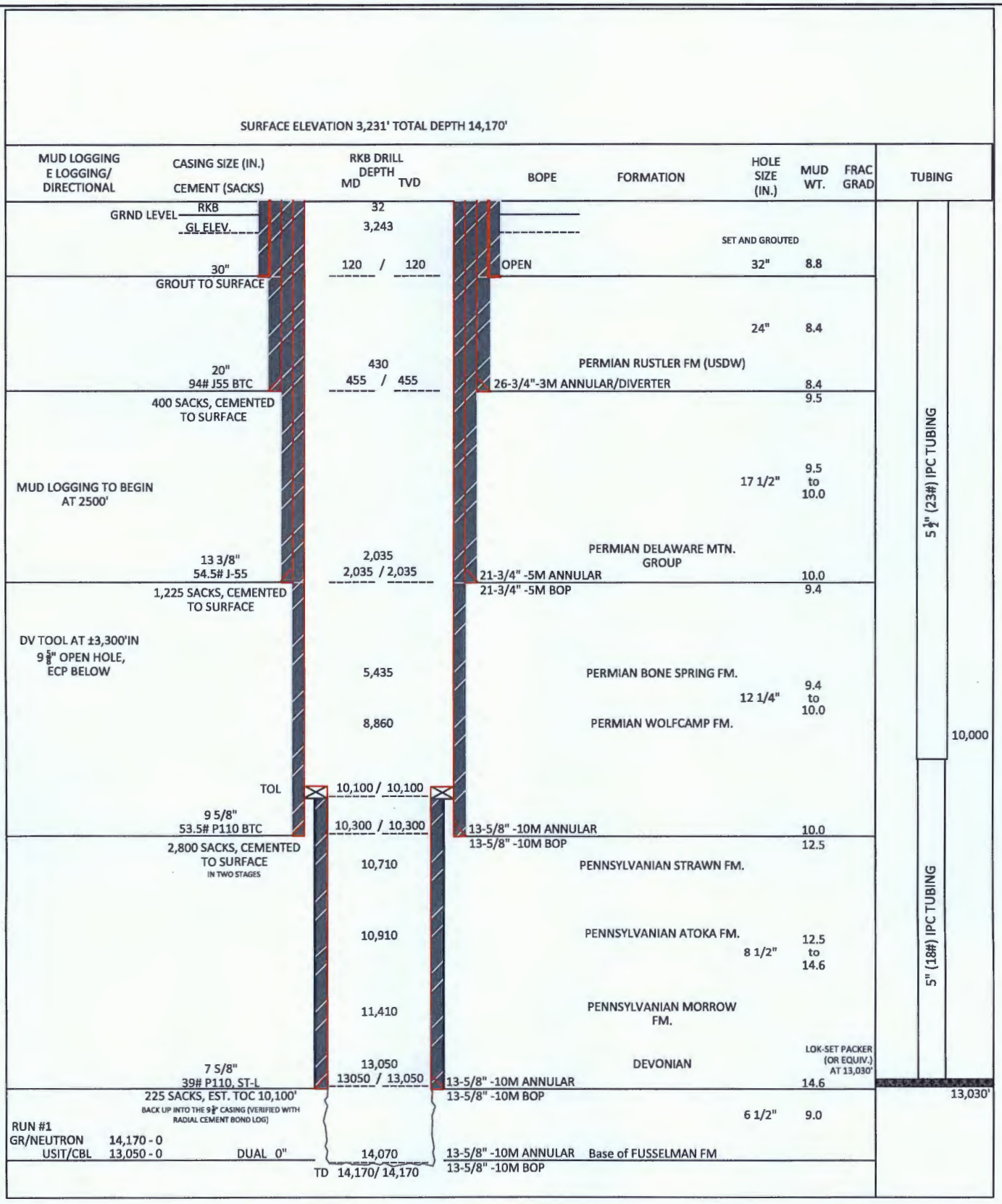
Attachment 5: Water Well Map

Attachment 6: Induced Seismicity Assessment Letter

Attachment 7: Public Notice Affidavit and Notice of Application Confirmations

Attachment 1

Wellbore Diagram



STEEL DUST SWD #1

SECTION 32 T-23-S, R-27-E
202' FNL & 346' FWL
EDDY COUNTY, NEW MEXICO

PN # 1680.NM.00 | JULY 2018

SOLARIS WATER MIDSTREAM

ALL CONSULTING
GOVERNMENT RELATIONS - ENERGY - PLANNING - TECHNOLOGY
ENGINEERING - ENVIRONMENTAL

SIZE	SCALE	
A	NTS	WELL BORE DATA SHEET

A-3 and AL-2 LOK-SET Retrievable Casing Packers

Product Family No. H64630 and H64628

APPLICATION

The A-3™ LOK-SET™ packer combines advantages of a retrievable packer with the features of a permanent packer. An ability to lock down tubing forces makes the A-3 suitable for a broad range of applications, including production, injection, zone isolation, and remedial operations. The AL-2™ LOK-SET packer is similar to the A-3, and has a larger bore.

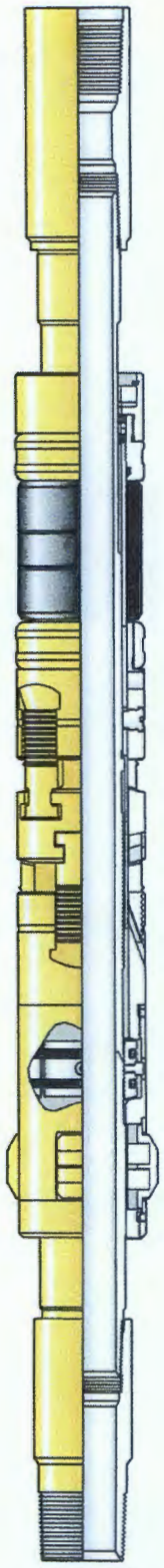
Advantages

- Holds pressure from above and below, without relying on set-down weight, tubing tension, or hydraulic hold down
- Provides tubing anchoring with tension applied, suitable for pumping wells or injection, controlling tubing forces related to change fluid temperatures
- Opposed, non-transferring, dovetail slips prevent packer movement associated with changing differential pressures, while allowing the landing of the tubing in tension, neutral or compression
- Right-hand tubing rotation controls setting and releasing
- Packing element compression locks in by ratcheting action of lock segments, which restricts rotation to one direction

Accessories

To provide a simple and reliable injection system for retrieving an injection string without having to unseat the packer:

L-10 or L-316 on-off sealing connectors, Product Family Nos. H68420 and H68422. Baker Hughes blanking plug can be used in the seating nipple profile of the on-off sealing connector to provide a means of plugging the lower zone while the tubing is being pulled.



A-3 LOK-SET
Retrievable Casing Packer
Product Family No. H64630

SPECIFICATION GUIDES

A-3™ LOK-SET Retrievable Casing Packer, Product Family No. H64630

Casing			Packer				
OD		Weight •	Size	Nom ID		Max Gage Ring OD	
in.	mm	lb/ft		in.	mm	in.	mm
4	101.6	9.5–12.9	41A2	1.500	38.1	3.244	82.4
4-1/2	144.3	21.6–23.6	41A2	1.500	38.1	3.244	82.4
4	101.6	9.5	41A4	1.500	38.1	3.423	112.4
4-1/2	114.3	18.8	41A4	1.500	38.1	3.423	112.4
		13.5–17.7	41B			3.578	90.9
		11.6–13.5	43A2	1.978	50.2	3.786	96.2
		9.5–10.5	43A4			3.786	96.2
5	127.0	15–18	43B	1.978	50.2	4.140	105.2
		11.5–15	43C			4.265	108.3
5-1/2	139.7	26	43C	1.978	50.2	4.265	108.3
		20–23	45A2			4.515	114.7
		15.5 –20	45A4			4.656	118.3
		13–15.5	45B			4.796	121.8
6	152.4	26	45B	1.978	50.2	4.796	121.8
		20–23	45C			5.078	129.0
		15–18	45D			5.171	131.3
6-5/8	168.3	34	45E	1.978	50.2	5.421	137.7
		24–32	45F			5.499	139.7
		24	47A2	2.441	62.0	5.671	144.0
		17–24	45G	1.978	50.2	5.796	147.2
		17–20	47A4	2.441	62.0	5.827	148.0
7	177.8	38	47A2	2.441	62.0	5.671	144.0
		32–35	47A4			5.827	148.0
		26–29	47B2			5.983	152.0
		23–26	47B4			6.093	154.8
		17–20	47C2			6.281	159.5
7-5/8	193.7	33.7–39	47C4	2.441	62.0	6.468	164.3
		24–29.7	47D2			6.687	169.9
		20–24	47D4			6.827	173.4
8-5/8	219.1	44–49	49A2	3.500	88.9	7.327	186.1
		32–40	49A4			7.546	191.7
		20–28	49B			7.796	198.0
9-5/8	244.5	47–53.5	51A2	3.500	88.9	8.234	209.1
		40–47	51A4			8.452	214.7
		29.3–36	51B			8.608	218.6

AL-2™ Large Bore LOK-SET Retrievable Casing Packer Product Family No. H64628

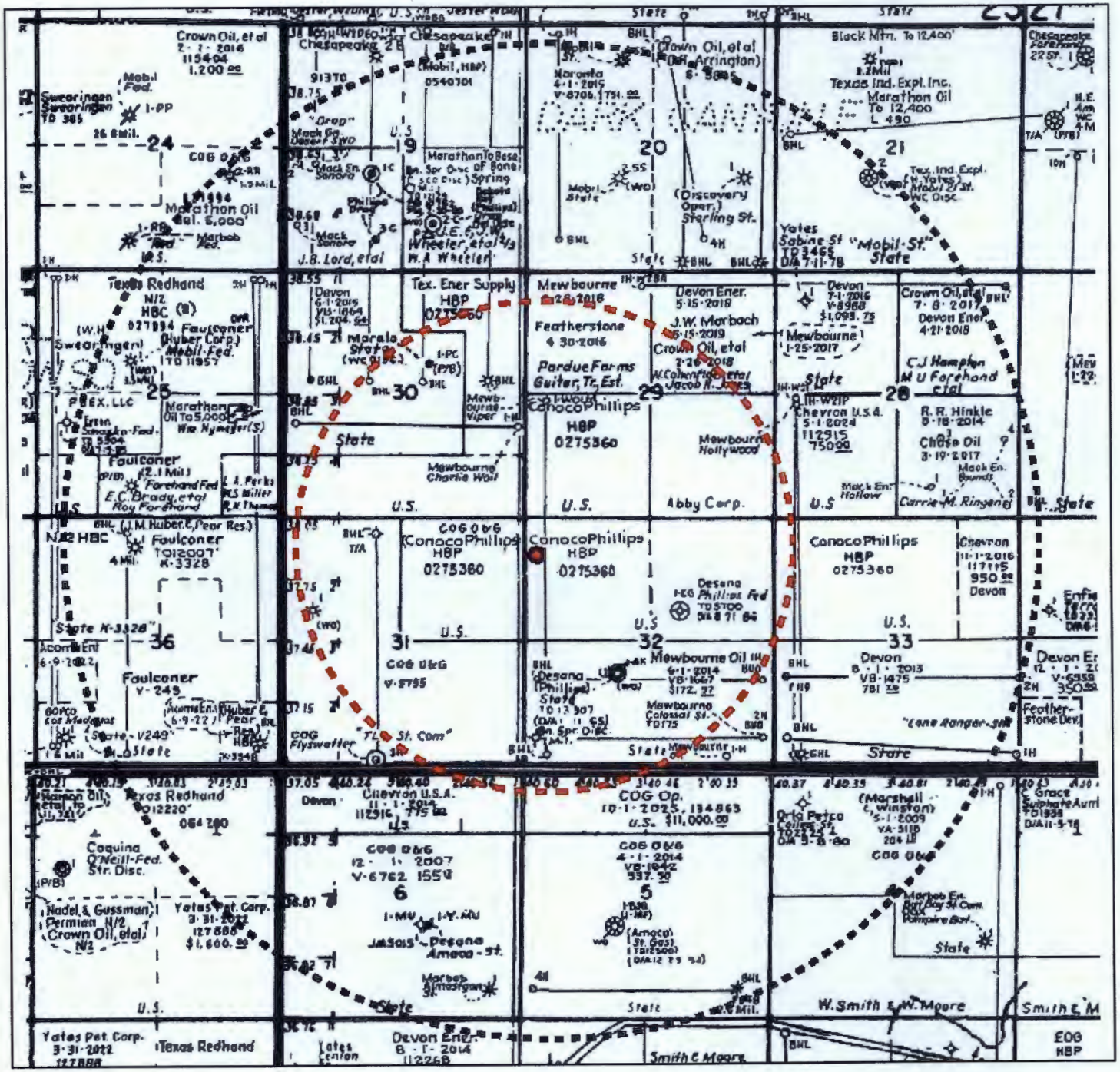
Casing		Packer							
OD		Weight •	Size	Nom ID		Max Gage Ring OD		Max Diameter of Compressed Drag Block	
in.	mm	lb/ft		in.	mm	in.	mm	in.	mm
5-1/2	139.7	20	45A2 x 2-3/8	2.375	60.3	4.562	115.9	4.592	116.6
		15.5–17	45A4 x 2-3/8			4.656	118.3	4.750	120.7
		13	45B x 2-3/8			4.796	121.8	4.902	124.5
6	152.4	26	45B x 2-3/8	2.375	60.3	4.796	121.8	4.902	124.5

• *When selecting a packer for a casing weight common to two weight ranges (same OD), choose the packer size shown for the lighter of the two weight ranges. Example: for 7-in. (177.8 mm) OD 26 lb/ft casing use packer size 47B4. Under certain circumstances the other packer size may be run, such as when running in mixed casing strings.*

Repair kits, including such items as packing elements, seal rings, etc., are available for redressing Baker Retrievable Packers. Contact your Baker Hughes representative. Use only Baker Hughes repair parts.

Attachment 2

Area of Review Well Map, Lease Map, and Well Details



Prepared for:
SOLARIS WATER MIDSTREAM

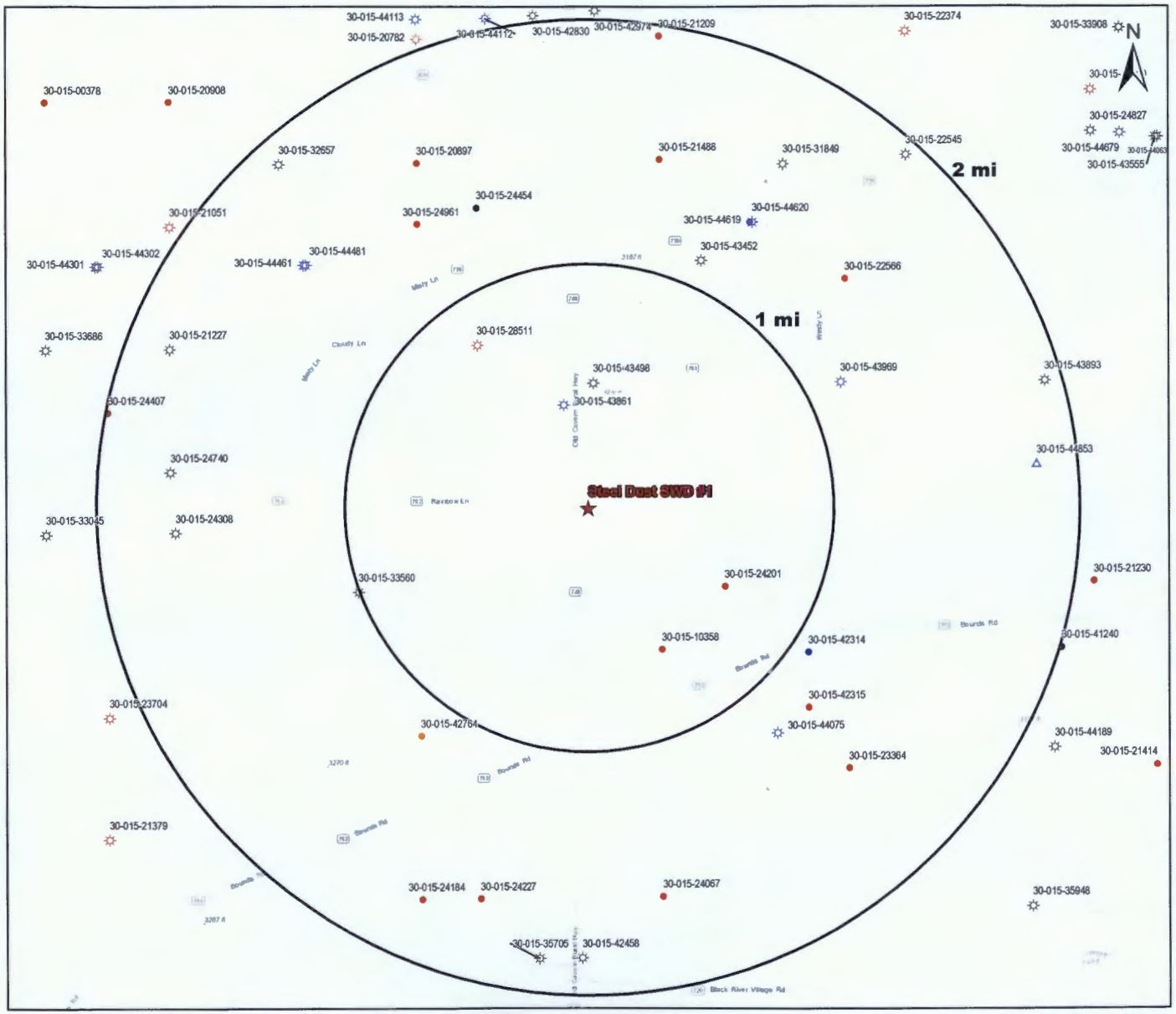
N

Legend

- Proposed SWD
- 1- mile Radius
- 2 - mile Radius

Steel Dust SWD #1 Offset Leases Eddy County, NM		
Proj Mgr: JDA	July 17, 2018	Mapped by: BJB

Prepared by:
ALL CONSULTING



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Prepared for: SOLARIS WATER MIDSTREAM

Legend

- Proposed SWD
- Gas, Active (24)
- Gas, New (11)
- Gas, Plugged (7)
- Oil, Active (2)
- Oil, New (2)
- Oil, Plugged (17)
- Oil, Temporarily Abondoned (1)
- Salt Water Injection, New (1)

O&G Wells Area of Review

Steel Dust SWD #1

Eddy, New Mexico

Proj Mgr: Dan Arthur	July 16, 2018	Mapped by: Ben Bockelmann

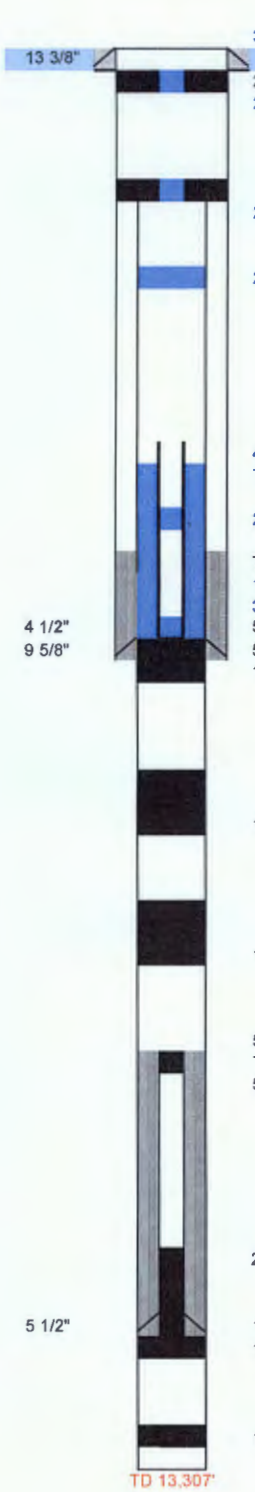
Prepared by: ALL CONSULTING

AOR Tabulation for Steel Dust SWD #1 (Top of Injection Interval: 13,050')								
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Footage Location	Total Depth	Penetrate Inj. Zone?
DC 30 STATE #001	30-015-28511	P&A	COG OPERATING LLC	5/22/1995	G-30-23S-27E	1980 FNL 1980 FEL	12218	No
TLC STATE COM #001	30-015-33560	G	COG OPERATING LLC	2/11/2005	2-31-23S-27E	1980 FNL 660 FWL	12170	No
CHARLIE 30 W0IL FEDERAL COM #001H	30-015-43861	G	MEWBOURNE OIL CO	12/31/9999	I-30-23S-27E	1980 FSL 185 FEL	9086	No
VIPER 29 32 W0LM FEDERAL COM #001H	30-015-43498	G	MEWBOURNE OIL CO	1/1/2016	L-29-23S-27E	2455 FSL 450 FWL	9075	No
PHILLIPS FEDERAL WELL #001	30-015-24201	P&A	THE DESANA CORP.	7/16/1982	G-32-23S-27E	1980 FNL 1980 FEL	5700	No
STATE LEASE NO. K-2538 WELL #001	30-015-10358	P&A	THE DESANA CORP.	9/17/1964	K-32-23S-27E	1976 FSL 1980 FWL	13307	Yes
Notes:								
(1) Casing, cement, and plugging details for 30-015-10358 included in the following wellbore diagram.								

The Desana Corp. STATE LEASE NO. K-2538 WELL #001

API# 30-015-10358

Operator:	The Desana Corporation	**DATE:**	7/25/2018
FIELD:	Wildcat	**BY:**	F De Leon
LEASE:	State Lease No. K-2538	**WELL:**	1
COUNTY:	Eddy	**STATE:**	New Mexico
Location:	32.2593269, -104.2146378 NAD 83	**Survey:**	K-32-23S-27E



	Scaled Depth G.S.
30' cmt plug 33'-3'	
335'	409
25 sx plug, 341-311'	614
25 sx plug, 385'	819
	1024
	1228
9 5/8 CSG CUT AT 1497'	1433
25 sx plug, 1,510'	1638
	1843
	2047
25 sx plug, 2,235'	2252
	2457
	2661
	2866
	3071
	3276
	3480
	3685
4 1/2" csg cut and pulled	3890
TOC 3,977'	4094
	4299
25 sx plug, 4,550'	4504
	4709
TOC 4850'	4913
100' cmt plug 5506-5406' in 4 1	5118
300 sx Cl C, 50/50 Poz	5323
5610' (Re-entry Prod. Csg. 2)	5528
5850' (Production Csg. 1)	5732
150 sx plug, 5,952-5,527'	5937
	6142
	6346
	6551
	6756
	6961
	7165
150 sx plug, 7,285-6,860'	7370
	7575
	7779
	7984
	8189
	8394
150 sx plug, 8,525-8,100'	8598
	8803
	9008
	9213
50 sx plug, 9,808-9,600'	9417
TOC 9750'	9622
5 1/2" cut at 9,770' and pulled	9827
	10031
	10236
	10441
	10646
	10850
	11055
	11260
2,100-	11464
	11669
	11874
12086'	12079
100 sx plug, 12,300-12,100'	12283
	12488
	12693
	12898
100 sx plug, 13,000-13,250'	13102
	13307

Casing	O.D.	top	bottom	weight	Drld hole	Factor
Conductor						
Surface	13 3/8	0	335	48	17 1/4	0.6473
Intermediate	9 5/8	0	5850	40, 36	12 1/2	0.3469
Production 1	5 1/2	0	12086	30, 17	8 3/4	0.2526
Production 2	4 1/2	0	5610	10.5	7 7/8	0.2278

Cement	Slurry	Class	Sacks	Volume	Yield	Fillup	bottom	top
Surface		(A)	375	442.5	1.18	0.6473	335	-212
Intermediate		(H)	400	472	1.18	0.3469	5850	4762
Production 1		unk.	450		unk.		12086	9750
Production 2		C	300	465	1.55	0.2278	5610	3977

TD =	13307
PLUG DATE =	Mar-88
SPUD DATE:	9/17/1964
COMP. DATE:	
CURRENT STATUS:	Plugged
KB =	
Elevation =	KB

Top of Devonian

13122

Top of Salt ≈ 700

Attachment 3

Source Water Analyses

Wolfcamp

BAKER HUGHES

Water Analysis

Date: 23-Aug-11

2708 West County Road, Hobbs NM 88240
Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For Brushy Draw 1 #1

Company	Well Name	County	State
	BD	~~Lea~~ Eddy	New Mexico 1-26S-29E

Sample Source Swab Sample **Sample #** 1

Formation **Depth**

Specific Gravity	1.170	SG @ 60 °F	1.172
pH	6.30	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	77,962	in PPM	66,520
Calcium	in Mg/L	4,000	in PPM	3,413
Magnesium	in Mg/L	1,200	in PPM	1,024
Soluable Iron (FE2)	in Mg/L	10.0	in PPM	9

Anions

Chlorides	in Mg/L	130,000	in PPM	110,922
Sulfates	in Mg/L	250	in PPM	213
Bicarbonates	in Mg/L	127	in PPM	108

Total Hardness (as CaCO3)	in Mg/L	15,000	in PPM	12,799
Total Dissolved Solids (Calc)	in Mg/L	213,549	in PPM	182,209
Equivalent NaCl Concentration	in Mg/L	182,868	in PPM	156,031

Scaling Tendencies

*Calcium Carbonate Index 507,520

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 1,000,000

Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable

**This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.*

Remarks RW=.048@70F

Report # 3188

Sec 22, T25S, R28E

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Bone Spring

Water Analysis Report by Baker Petrolite

Company:		Sales RDT:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	534665
Lease/Platform:	PINOCHLE 'BPN' STATE COM	Analysis ID #:	106795
Entity (or well #):	2 H	Analysis Cost:	$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary	
Sampling Date:	03/10/11
Analysis Date:	03/18/11
Analyst:	SANDRA GOMEZ
TDS (mg/l or g/m3):	184911.1
Density (g/cm3, tonne/m3):	1.113
Anion/Cation Ratio:	1
Carbon Dioxide:	0 50 PPM
Oxygen:	
Comments:	

Analysis of Sample 534665 @ 75 °F					
Anions	mg/l	meq/l	Cations	mg/l	meq/l
Chloride:	109618.0	3091.92	Sodium:	70275.7	3056.82
Bicarbonate:	2135.0	34.99	Magnesium:	195.0	16.04
Carbonate:	0.0	0.	Calcium:	844.0	42.12
Sulfate:	747.0	15.55	Strontium:	220.0	5.02
Phosphate:			Barium:	0.8	0.01
Borate:			Iron:	6.5	0.23
Silicate:			Potassium:	869.0	22.22
			Aluminum:		
Hydrogen Sulfide:		0 PPM	Chromium:		
pH at time of sampling:		7	Copper:		
pH at time of analysis:			Lead:		
pH used in Calculation:		7	Manganese:	0.100	0.
			Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Anhydrite $CaSO_4$		Celestite $SrSO_4$		Barite $BaSO_4$		CO_2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.08	188.52	-1.20	0.00	-1.18	0.00	-0.11	0.00	0.58	0.29	1.72
100	0	1.10	206.05	-1.29	0.00	-1.20	0.00	-0.15	0.00	0.35	0.29	2.35
120	0	1.12	224.17	-1.38	0.00	-1.19	0.00	-0.17	0.00	0.16	0.00	3.17
140	0	1.13	243.17	-1.42	0.00	-1.18	0.00	-0.18	0.00	0.00	0.00	4.21

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

Attachment 4

Injection Formation Water Analyses

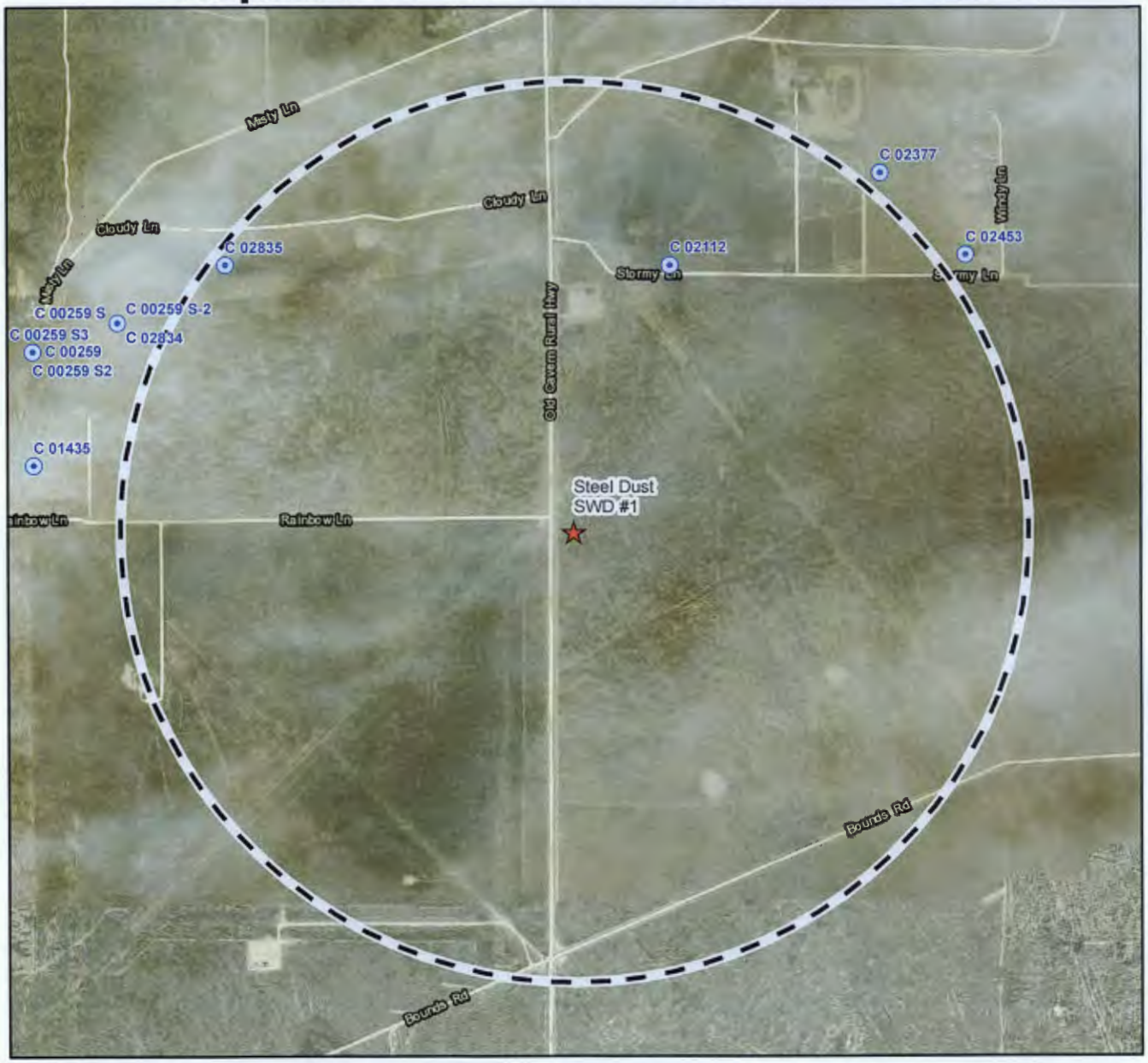
wellname	api	section	township	range	county	state	formation	sampledate	ph	specificgravity	specificgravity_temp_F	tds_mgL	resistivity_ohm_cm	resistivity_ohm_cm_temp_F	conductivity	conductivity_temp_F	sodium_mgL	calcium_mgL	magnesium_mgL	chloride_mgL	bicarbonate_mgL	sulfate_mgL
JURNEGAN POINT #001	3001510280	5	24S	25E	EDDY	NM	DEVONIAN	12/14/1964 0:00	7			203100								121100	175	2220
WHITE CITY PENN GAS COM UNIT 1 #001	3001500408	29	24S	26E	EDDY	NM	DEVONIAN	3/1/1960 0:00	7	1.012	60		0.36	75	25596	64	6072	1002	132	10120	653	1336

Source: Go-Tech (http://gotech.nmt.edu/gotech/Water/producedwater.aspx)

Attachment 5

Water Well Map

Proposed SWD & Water Wells within 1 mile



Steel Dust SWD #1		
County: Eddy, NM	Date: 7/16/2018	
Lat: 32.267768	PM: J Daniel Arthur	
Long: -104.219689	Map: Ben Bockelmann	1:22,000

0 1,250 2,500 5,000 Feet

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Prepared for:
SOLARIS WATER MIDSTREAM

Legend

- Proposed SWD
- Water Well (iWATERS)
- Proposed SWD 1-mi Buffer

Prepared by:
ALL CONSULTING

Water Wells	Owner	Available Contact Information	Year	Use
C-02112	George Michaelis/Thomas Chapman	PO Box 24 , Carlsbad	1985	Livestock
C-02835	Arthur Flores	None Available	1985	Exploration

Attachment 6

Induced Seismicity Assessment Letter

ALL CONSULTING
GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY
ENGINEERING · ENVIRONMENTAL

July 25, 2018

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

Subject: Induced Seismicity Potential Statement for the Steel Dust SWD #1

Dear Mr. Goetze,

This letter provides information regarding the seismic potential associated with injection operations associated with Solaris Water Midstream, LLC's (Solaris), proposed Steel Dust SWD #1, hereinafter referred to as the "Subject Well".

As outlined herein, based on my experience as an expert on the issue of induced seismicity, it is my opinion that the potential for the proposed injection well to cause injection-induced seismicity is expected to be minimal, at best. This conclusion is based on (1) the lack of historic seismic activity and faulting in the area, (2) the low fault slip potential (FSP) of Precambrian faults in the area, (3) the presence of confining layers, and (4) the overall vertical distance between the proposed injection zone and basement rock.

The Subject Well, is located 202' FNL & 346' FWL of Section 32, in T23-S and R27-E of Eddy County, New Mexico. Historically, the Eddy County area has experienced very limited recorded seismic activity (per the U.S. Geological Survey [USGS] earthquake catalog database). The closest recorded recorded seismic event was a M3.9 that occurred on April 11, 1974, and was located approximately 5.38 miles northeast of the subject well (See Exhibit 1). The closest Class IID well injecting into the same formations (Devonian-Silurian) of the Subject Well is approximately 1.83 miles to the east (See Exhibit 1).

Solaris does not own either 2D or 3D seismic reflection data in the area of the Subject Well. Fault data from USGS indicates that the closest known fault is approximately 1.62 miles northwest of the Subject Well (See Exhibit 1).

In a recent paper written by Snee and Zoback (2018) entitled "State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity,", the authors found that large groups of mostly north-south striking Precambrian basement faults, predominantly located along the Central Basin Platform, the western Delaware Basin, and large parts of the Northwest Shelf (which includes Eddy and Lea counties, New Mexico) have low FSP at the modeled fluid-pressure perturbation. The map in Exhibit 2 depicts the low probability risk of FSP for the Delaware Basin and Northwest Shelf areas (Snee and Zoback 2018).

Geologic analysis indicates that the proposed Devonian-Silurian injection zone is overlain by approximately 200 to 400 feet of Woodford Shale, which is the upper confining zone and will serve as a barrier for upward injection fluid migration. Additionally, the Simpson Group that lies directly below the Montoya Formation will act as a lower confining zone to prohibit fluids from migrating downward into the underlying Ellenberger Formation and Precambrian basement rock. See the stratigraphic column for the Delaware Basin included in Exhibit 3.

In the Eddy and Lea Counties area of New Mexico, the Simpson Group is comprised of a series of Middle to Upper Ordovician carbonates, several sandstones, and sandy shales that range from approximately 350 to 650 feet thick (Jones 2008). This group of rocks is capped by the limestones of the Bromide Formation, which is approximately 200 feet thick in this area (Jones 2008). The closest deep well drilled into the Precambrian basement was completed by the Skelly Oil Company in 1975. This well is located in Section 17, Range 36E, Township 25S of Lea County (API No.30-025-25046) and encountered 602 feet of Ellenburger Formation before reaching the top of the Precambrian granite at a depth of 18,920 feet. Based on the estimated thickness of the Simpson Group and Ellenburger Formation in this area, the Precambrian basement should be approximately 1,000 to 1,200 feet below the bottom of the proposed injection zones in the Subject Well.

Conclusion

As an expert on the issue of induced seismicity, it is my opinion that the potential for the proposed injection well to cause injection-induced seismicity is expected to be minimal, at best. This conclusion is based on (1) the lack of historic seismic activity and faulting in the area, (2) the low FSP of Precambrian faults in the area, (3) the presence of confining layers, and (4) the overall vertical distance between the proposed injection zone and basement rock.

Sincerely,
ALL Consulting

J. Daniel Arthur, P.E., SPEC
President and Chief Engineer

Enclosures
References
Exhibits

References

Ball, Mahlon M. 1995. "Permian Basin Province (044)." In *National Assessment of United States Oil and Gas Resources—Results, Methodology, and Supporting Data.* U.S. Geological Survey. https://certmapper.cr.usgs.gov/data/noga95/prov44/text/prov44.pdf (accessed June 18, 2018).

Green, G.N., and G.E. Jones. 1997. "The Digital Geologic Map of New Mexico in ARC/INFO Format." U.S. Geological Survey Open-File Report 97-0052. https://mrdata.usgs.gov/geology/state/state.php?state=NM (accessed June 14, 2018).

Jones, Rebecca H. 2008. "The Middle-Upper Ordovician Simpson Group of the Permian Basin: Deposition, Diagenesis, and Reservoir Development." http://www.beg.utexas.edu/resprog/permianbasin/PBGSP_members/writ_synth/Simpson.pdf (accessed June 19, 2018).

Snee, Jens-Erik Lund, and Mark D. Zoback. 2018. "State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity." *The Leading Edge* 37, no. 2 (February 2018): 127-34.

U.S. Geological Survey (USGS). No date. Earthquakes Hazard Program: Earthquake Catalog. https://earthquake.usgs.gov/earthquakes/search/ (accessed June 14, 2018).

Exhibits

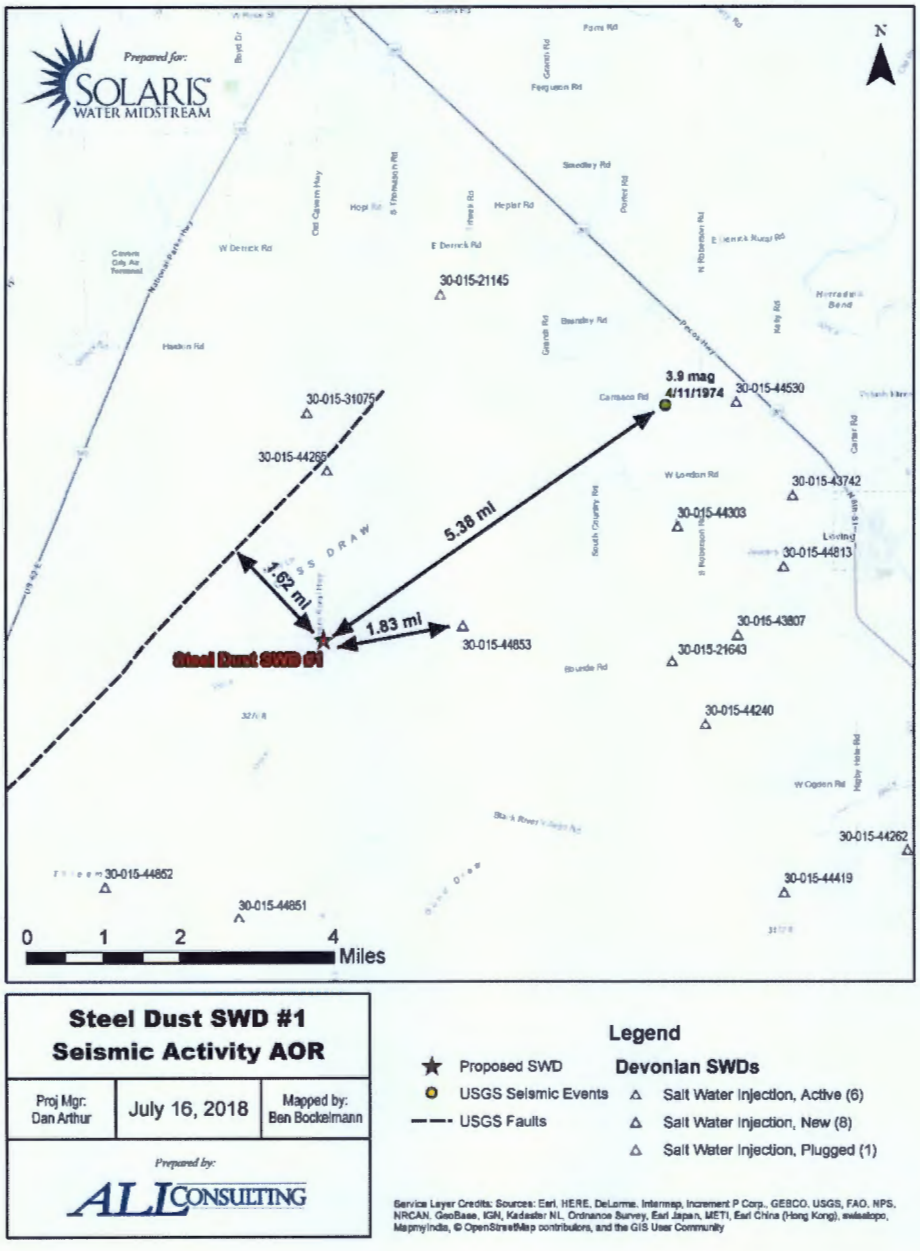


Exhibit 1. Map Showing the Distances from Known and Inferred Faults, Seismic Event, and Closest Deep Injection Well

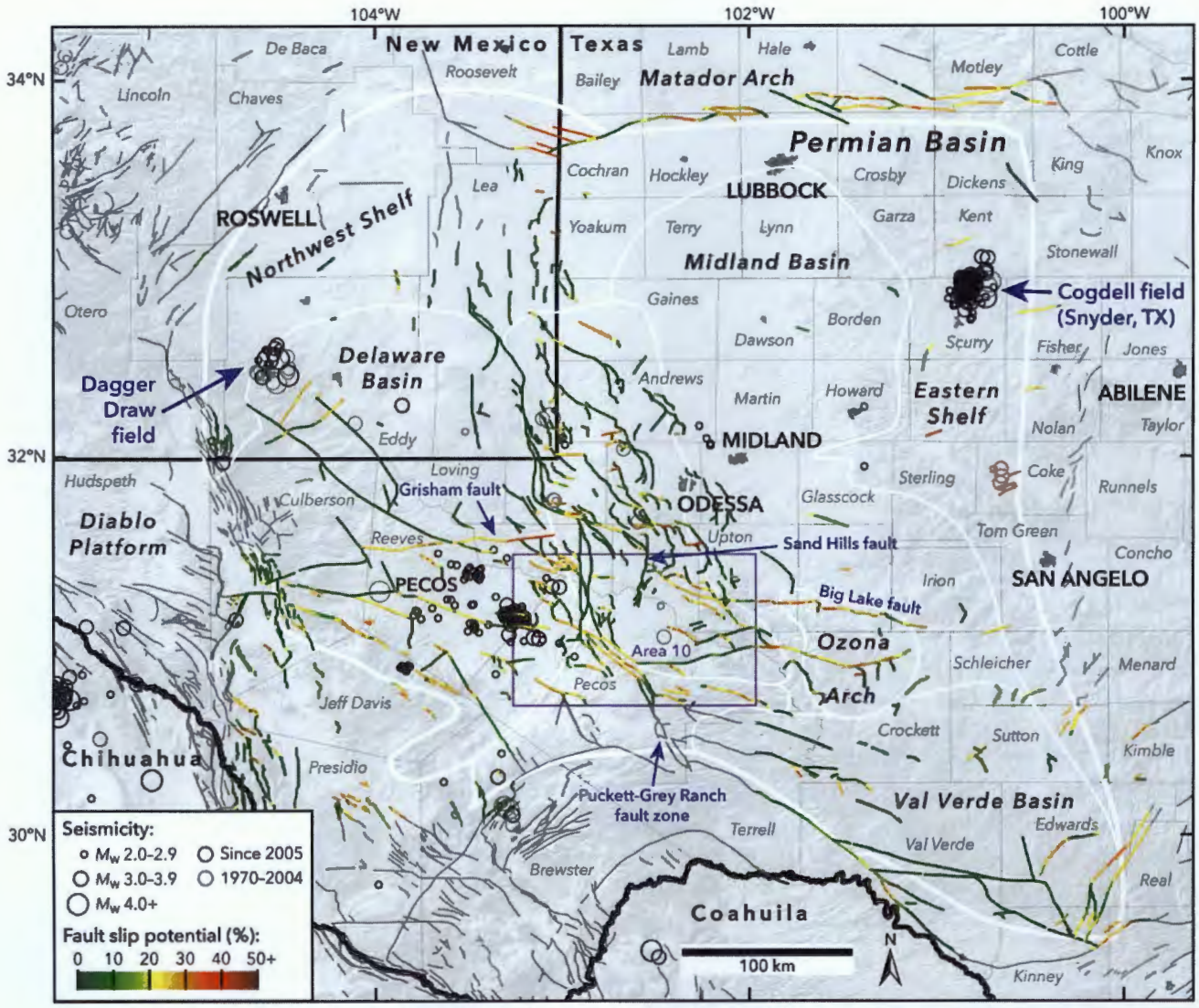


Exhibit 2. Results of the Snee and Zoback (2018) Probabilistic FSP Analysis Across the Permian Basin

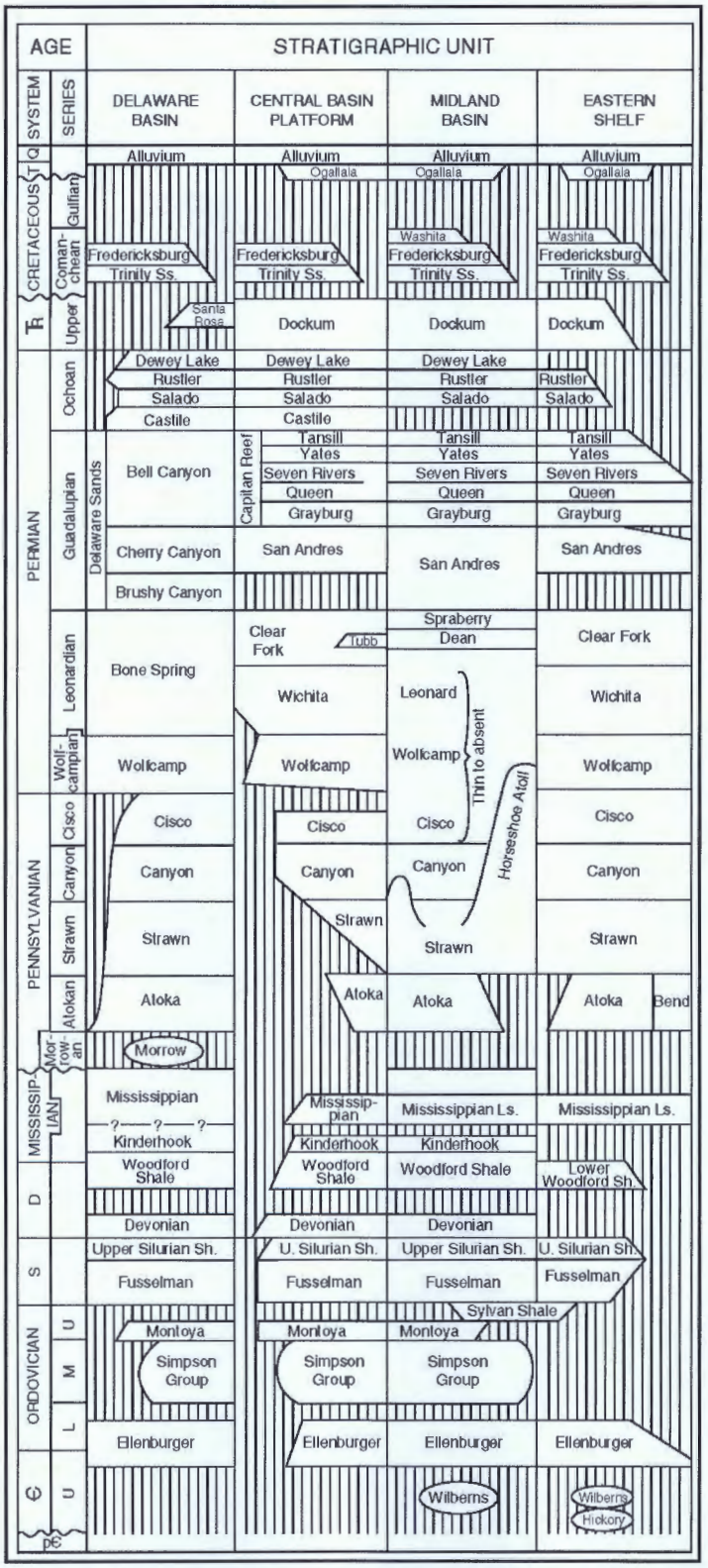


Exhibit 3. Delaware Basin Stratigraphic Chart (Ball 1995)

Attachment 7

Public Notice Affidavit and Notice of Application Confirmations

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001256220

ALL CONSULTING- CARLSBAD
1718 SOUTH CHEYENNE AVENUE

TULSA OK 74119

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:

07/27/18

Legal Clerk

Subscribed and sworn before me this
27th of July 2018.

State of WI, County of Brown
NOTARY PUBLIC

9-19-21
My Commission Expires

Ad#:0001256220
P O : Steel Dust SWD #1
# of Affidavits :0.00

APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That Solaris Water Midstream, LLC, 9811 Katy Freeway, Suite 900, Houston, TX 77024, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:
PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.
WELL NAME AND LOCATION:
Steel Dust SWD #1
NW ¼ NW ¼, Section 32,
Township 23S, Range 27E
202' FNL & 346' FWL
Eddy County, NM
NAME AND DEPTH OF DISPOSAL ZONE:
Devonian-Silurian (13,050' - 14,070')
EXPECTED MAXIMUM INJECTION RATE:
30,000 Bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE:
2,610 psi (surface)
Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.
Additional information may be obtained by contacting Bonnie Atwater (Solaris - Regulatory Technician) at 432-203-9020.
Pub: July 27, 2018 #1256220

VICKY FELTY NOTARY PUBLIC STATE OF WISCONSIN

Steel Dust SWD #1 Notice of Application Recipients				
Entity	**Address**	**City**	**State**	**Zip Code**
Landowner				
New Mexico BLM	620 E. Greene St.	Carlsbad	NM	88220
OCD District				
OCD District 2	811 S. First St.	Artesia	NM	88210
Leasehold Operators				
Abby Corporation (Abby M. Hofman)	8096 St. Highway 209	Tucumcari	NM	88401
Chevron Inc.	6301 Deauville Blvd.	Midland	TX	79706
COG Operating, LLC	One Concho Center	Midland	TX	79701
Conoco Phillips	P. O. Box 7500	Bartlesville	OK	74005
Crown Oil Partners, etal.	P. O. Box 50820	Midland	TX	79710
Desana Corportation	600 Building Of The Southwest	Midland	TX	79701
Devon Energy Production Company, LP	333 W. Sheridan Ave.	Oklahoma City	OK	73102
Featherstone Development Corporation	P.O. Box 429	Roswell	NM	88202
Maralo Inc.	P. O. Box 832	Midland	TX	79702
Mewbourne Oil Company	4801 Business Park Blvd.	Hobbs	NM	88240
Pardue Farms	1308 W. Thomas	Carlsbad	NM	88220
Texas Energy Supply, Inc.	P. O. Box 4848	Wichita Falls	TX	76308-0848

Steel Dust SWD #1 Notice of Application Recipients				
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Artesia NM 88210-2834

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Midland TX 79701

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Oklahoma City OK 73102-5010

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P.O. Box 429
Roswell NM 88202-0429

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Tucumcari NM 88401-9553

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Chevron Inc.
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Midland TX 79706-2964

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One Concho Center
Midland TX 79701

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Carlsbad NM 88220-4045

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