DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
10/27/17		MAM	10/27/2017	SWD	DMAM1730046509

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]

SWD-1705
- NGL Water Solutions Permian, LLC
372338
well 6
- Strike Ass WD #2
30-025-pending
POOL

[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 _____

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

- SWD; Devonian-Silurian 97869

[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.

Chris Weyand		Consulting Engineer	10/25/2017
Print or Type Name	Signature	Title	Date

chris@lonquist.com
e-mail Address

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

October 25, 2017

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: STRIKER 6 SWD NO. 2 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 NGL Water Solutions Permian, LLC's Striker 6 SWD No. 2. In addition, Forms C-101 and C-102 have also been included with this package. Notices have been sent to offset leaseholders and the surface owner. Proof of notice will be sent to the OCD upon receipt.

Any questions should be directed towards NGL Water Solutions Permian, LLC's agent Lonquist & Co., LLC.

Regards,

Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

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: NGL WATER SOLUTIONS PERMIAN, LLC

ADDRESS: 1509 W WALL ST // STE 306 // MIDLAND, TEXAS 79701

CONTACT PARTY: SARAH JORDAN PHONE: (432) 685-0005 x1989

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).

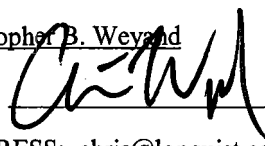
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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: Christopher B. Weyand TITLE: Consulting Engineer

SIGNATURE:  DATE: 10/25/2017

E-MAIL ADDRESS: chris@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: _____

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

Side 2

III. WELL DATA

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

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

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

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

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

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

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

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

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

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

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

Side 1

INJECTION WELL DATA SHEET

OPERATOR: NGL WATER SOLUTIONS PERMIAN, LLC

WELL NAME & NUMBER: STRIKER 6 SWD #2

WELL LOCATION: 827' FNL & 942' FWL (FOOTAGE LOCATION) | D (UNIT LETTER) | 20 (SECTION) | 24S (TOWNSHIP) | 34E (RANGE)

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26.000" Casing Size: 20.000"

Cemented with: 2,700 sx. *or* _____ ft³

Top of Cement: surface Method Determined: circulation

1st Intermediate Casing

Hole Size: 17.500" Casing Size: 13.375"

Cemented with: 2,850 sx. *or* _____ ft³

Top of Cement: surface Method Determined: circulation

2nd Intermediate Casing

Hole Size: 11.500" Casing Size: 9.625"

Cemented with: 1,700 sx. *or* _____ ft³

Top of Cement: surface Method Determined: circulation

Production Liner

Hole Size: 8.375"

Casing Size: 7.000"

Cemented with: 505 sx.

or _____ ft^3

Top of Cement: 12,000'

Method Determined: calculation

Total Depth: 18,100'

Injection Interval

16,250 feet to 18,100 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.500", 17 lb/ft, L-80, BT&C from 0'- 12,000' and 4.500", 11.6 lb/ft, HCP-110 UFJ from 12,000'- 16,200'
Lining Material: Duoline

Type of Packer: D&L Oil Tools 7.000" Permapack Packer – Single Bore

Packer Setting Depth: 16,200'

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

Additional Data

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

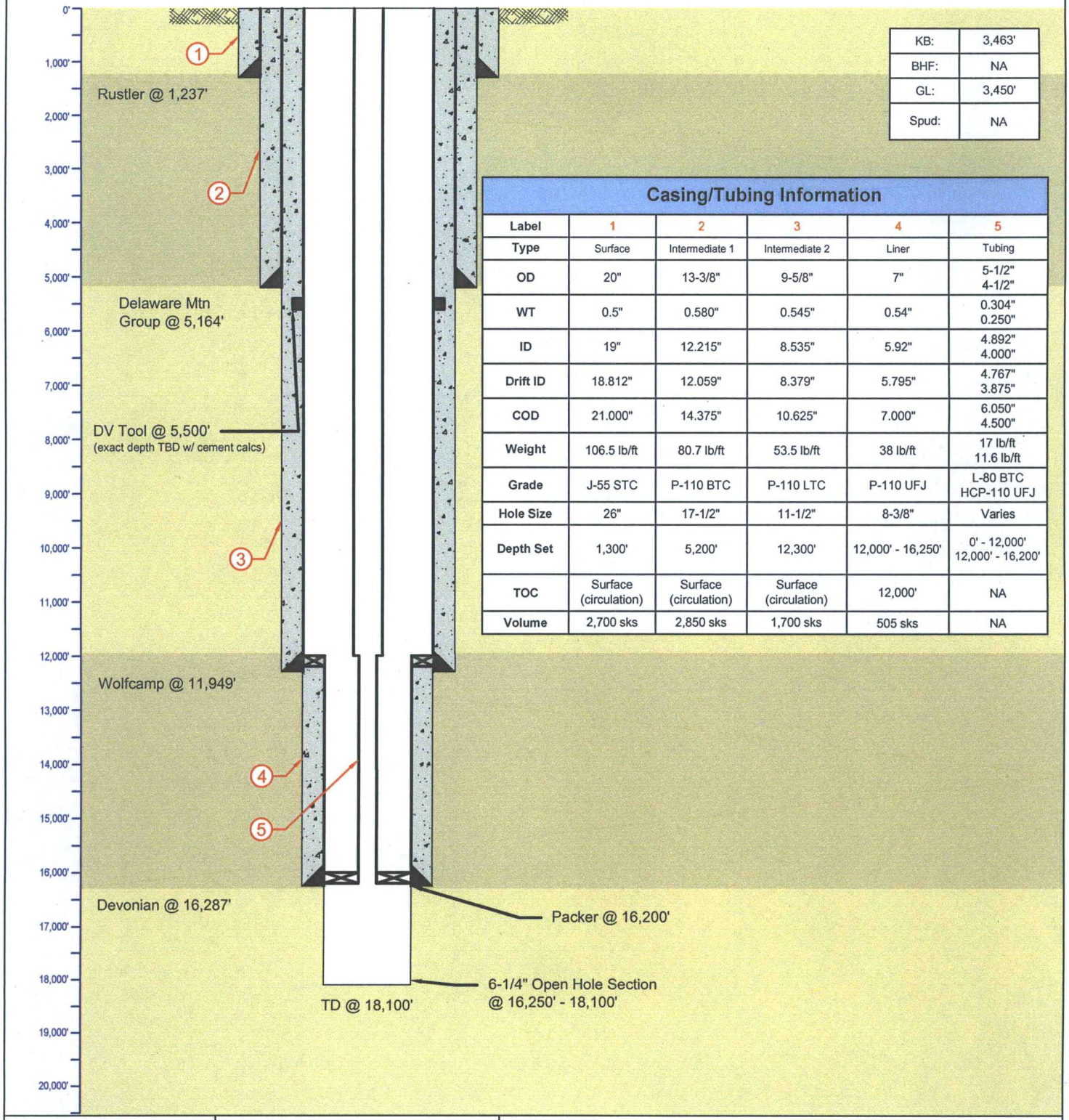
   If no, for what purpose was the well originally drilled? N/A

2. Name of the Injection Formation: Devonian, Silurian, Fusselman and Montoya (Top 100')

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

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:
   Bone Spring: 9,014'
   Wolfcamp: 11,949'
   Strawn: 13,188'
   Atoka: 13,442'
   Morrow: 14,148'



KB:	3,463'
BHF:	NA
GL:	3,450'
Spud:	NA

Casing/Tubing Information

Label	1	2	3	4	5
Type	Surface	Intermediate 1	Intermediate 2	Liner	Tubing
OD	20"	13-3/8"	9-5/8"	7"	5-1/2" 4-1/2"
WT	0.5"	0.580"	0.545"	0.54"	0.304" 0.250"
ID	19"	12.215"	8.535"	5.92"	4.892" 4.000"
Drift ID	18.812"	12.059"	8.379"	5.795"	4.767" 3.875"
COD	21.000"	14.375"	10.625"	7.000"	6.050" 4.500"
Weight	106.5 lb/ft	80.7 lb/ft	53.5 lb/ft	38 lb/ft	17 lb/ft 11.6 lb/ft
Grade	J-55 STC	P-110 BTC	P-110 LTC	P-110 UFJ	L-80 BTC HCP-110 UFJ
Hole Size	26"	17-1/2"	11-1/2"	8-3/8"	Varies
Depth Set	1,300'	5,200'	12,300'	12,000' - 16,250'	0' - 12,000' 12,000' - 16,200'
TOC	Surface (circulation)	Surface (circulation)	Surface (circulation)	12,000'	NA
Volume	2,700 sks	2,850 sks	1,700 sks	505 sks	NA

LONQUIST FIELD SERVICE
AUSTIN WICHITA
HOUSTON CALGARY

Texas License F-9147

3345 Bee Cave Road, Suite 201
Austin, Texas 78746
Tel: 512.732.9812
Fax: 512.732.9816

NGL Water Solutions Permian LLC

Striker 6 SWD No. 2

Country: USA	**State/Province:** New Mexico	**County/Parish:** Eddy
Location:	**Site:**	**Survey/STR:** 20-24S-34E
API No:	**Field:**	**Well Type/Status:** SWD
State ID No:	**Project No:** 1526	**Date:** 10/20/2017
Drawn: CJG	**Reviewed:** CW	**Approved:** CW
Rev No: 1	**Notes:**	

NGL Water Solutions Permian, LLC

Striker 6 SWD No. 2

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Striker 6 SWD
Well No.	2
County	Lea
Location	S-20 T-24S R-34E
Footage Location	827' FNL & 942' FWL

2.

a. Wellbore Description

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	20.000"	13.375"	9.625"	7.000"
WT	0.500"	0.580"	0.545"	0.540"
ID	19.000"	12.215"	8.535"	5.920"
Drift ID	18.812"	12.059"	8.379"	5.795"
COD	21.000"	14.375"	10.625"	7.000"
Weight	106.5 lb/ft	80.7 lb/ft	53.5 lb/ft	38 lb/ft
Grade	J-55	P-110	P-110	P-110
Hole Size	26"	17.5"	11.5"	8.375"
Depth Set	1,300'	5,200'	12,300'	12,000' – 16,250'

b. Cementing Program

Cement Information				
Casing String	**Surface**	**Intermediate**	**Production**	**Liner**
Lead Cement	C	C	NeoCem	H
Lead Cement Volume	1,310 sks	2,195 sks	Stage 1: 680 sks Stage 2: 640 sks	505 sks
Tail Cement	C	C	NeoCem/HALCEM	
Tail Cement Volume	1,390 sks	655 sks	Stage 1: 270 sks Stage 2: 110 sks	
Cement Excess	100%	25%	25%	25%
TOC	Surface	Surface	Surface	12,000'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

Tubing Information		
OD	5.5"	4.5"
WT	0.304"	0.250"
ID	4.892"	4.000"
Drift ID	4.767"	3.875"
COD	6.050"	4.500"
Weight	17 lb/ft	11.6 lb/ft
Grade	L-80 BTC	HCP-110 UFJ
Depth Set	0'-12,000'	12,000'-16,200'

Tubing will be lined with Duoline.

4. Packer Description

D&L Oil Tools 7.000" Permapack Packer – Single Bore

B. Completion Information

1. Injection Formation: Devonian, Silurian, Fusselman, Montoya (Top 100')

2. Gross Injection Interval: 16,250' – 18,100'

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
Bone Spring	9,014'
Wolfcamp	11,949'
Strawn	13,188'
Atoka	13,442'
Morrow	14,148'

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 Injection:

   Average Volume: 25,000 BPD
   Maximum Volume: 32,500 BPD

2. Closed System

3. Anticipated Injection Pressure:

   Average Injection Pressure: 1,900 PSI (surface pressure)
   Maximum Injection Pressure: 3,250 PSI (surface pressure)

4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Bone Spring, Wolfcamp, Strawn, Atoka, and Morrow formations.

5. The disposal interval is non-productive. No water samples are available from the surrounding area.

VIII. Geological Data

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.

A. Injection Zone: Siluro-Devonian

Formation	Depth
Rustler Anhydrite	1,237'
Salado	1,577'
Delaware	5,164'
Brushy Canyon	7,794'
Bone Spring	9,014'
Wolfcamp	11,949'
Pennsylvanian	13,024'
Strawn	13,188'
Atoka	13,442'
Morrow	14,148'
Mississippian Lime	15,064'
Woodford	16,085'
Devonian	16,287'

B. Underground Sources of Drinking Water

There is limited data on USDWs in the area. The most closely offsetting water wells were drilled to 610' or shallower. Fresh water depth appears to vary from 40' to 475' (300' on average) in the area in the form of sporadic alluvial sources rather than a fresh water aquifer. In general, any USDWs would be expected to fall above the salt. The top of the Rustler Anhydrite is estimated at approximately 1,237'.

IX. Proposed Stimulation Program

No proposed stimulation program.

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

The only fresh water well (C-03932) within one mile of the well location as shown on the attached map could not be located. As a result, fresh water samples were not obtained for analysis purposes.

XII. Affirmative Statement of Examination of Geologic and Engineering Data

Based on the available engineering and geologic data we find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

NAME: Christopher B. Weyand TITLE: Consulting Engineer

SIGNATURE: _____ DATE: 10/25/2017

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
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

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

1. Operator Name and Address	2. OGRID Number
NGL WATER SOLUTIONS PERMIAN, LLC 1509 W WALL ST, STE 306 MIDLAND, TEXAS 79701	372338
	3. API Number 30-025-TBD

4. Property Code	5. Property Name	6. Well No.
	STRIKER 6 SWD	2

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	20	24S	34E		827	NORTH	942	WEST	LEA

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	Pool Code
SWD; Silurian-Devonian	96101

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
N	SWD	R	Private	3,542'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	18,100'	Siluro-Devonian	TBD	ASAP

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water
<1,237'	3,730'	> 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	26"	20"	106.5 lb/ft	1,300'	2,700	Surface
Intermediate	17.5"	13.375"	80.7 lb/ft	5,200'	2,850	Surface
Production	11.5"	9.625"	53.5 lb/ft	12,300'	1,700	Surface
Prod. Liner	8.375"	7"	38 lb/ft	12,000' – 16,250'	505	12,000'
Tubing	N/A	5.5"	17 lb/ft	12,000'	N/A	N/A
Tubing	N/A	4.5"	11.6 lb/ft	12,000' – 16,200'	N/A	N/A

Casing/Cement Program: Additional Comments

See attached schematic.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Hydrualic/Blinds, Pipe	5,000 psi	8,000 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 ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:	OIL CONSERVATION DIVISION Approved By:
Printed name: Chris Weyand	Title:
Title: Consulting Engineer	Approved Date: / Expiration Date:
E-mail Address: chris@lonquist.com	
Date: 10/25/2017 / Phone: 512-600-1764	Conditions of Approval Attached

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	96101	SWD; Silurian-Devonian

Property Code	Property Name	Well Number
	STRIKER 6 SWD	2

OGRID No.	Operator Name	Elevation
372338	NGL WATER SOLUTIONS PERMIAN LLC	3542'

Surface Location

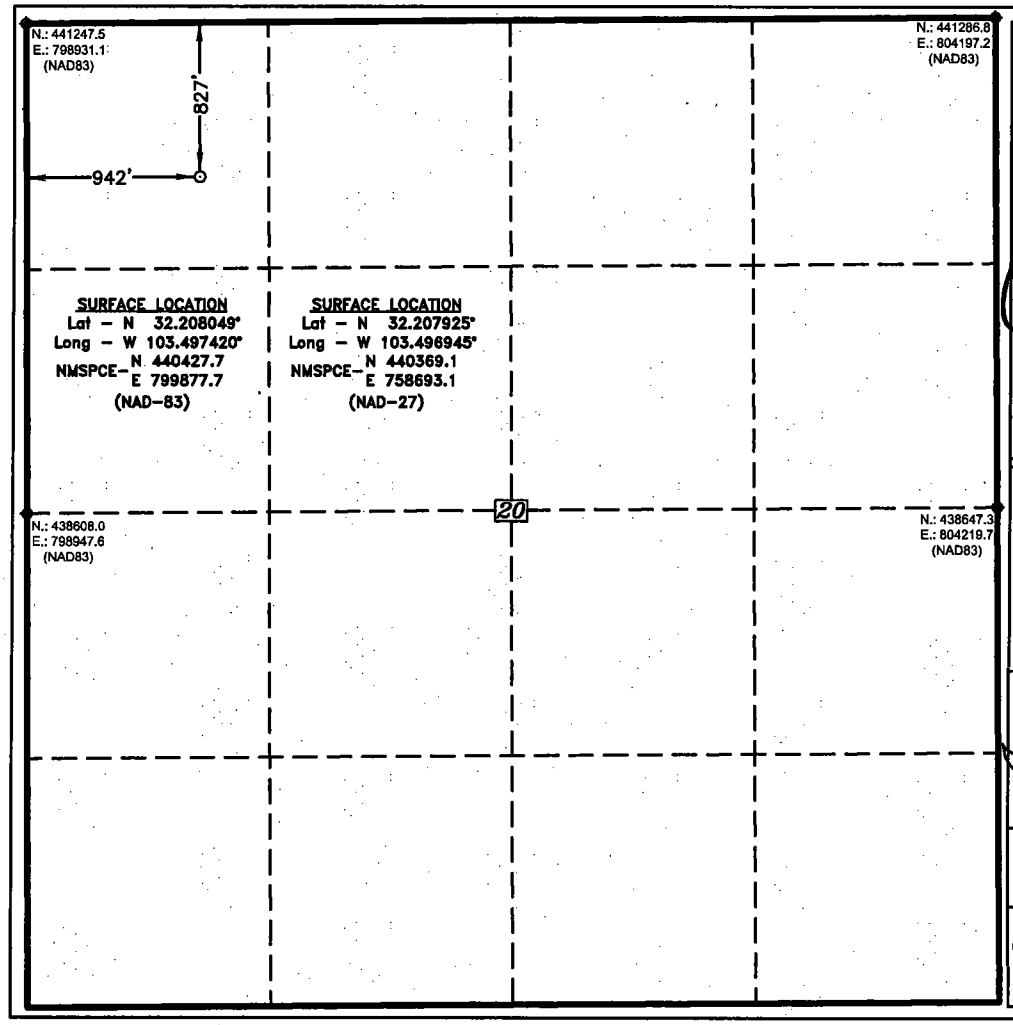
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	20	24 S	34 E		827	NORTH	942	WEST	LEA

Bottom Hole Location If Different From Surface

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

Dedicated Acres	Joint or Infill	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



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.

Signature 10/25/2017 Date

Christopher Weyand
Printed Name

chris@lonquist.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 supervison, and that the same is true and correct to the best of my belief.

OCTOBER 19, 2017
Date Surveyed

Signature & Seal of Professional Surveyor

Certificate No. Gary L. Jones 7977

0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'
WO Num.: 33362

Striker 6 SWD #2
2 mile Area of Review
Lea County, NM

NGL Water Solutions Permian, LLC

Projection: NAD 1983 State Plane NM East FIPS 3001

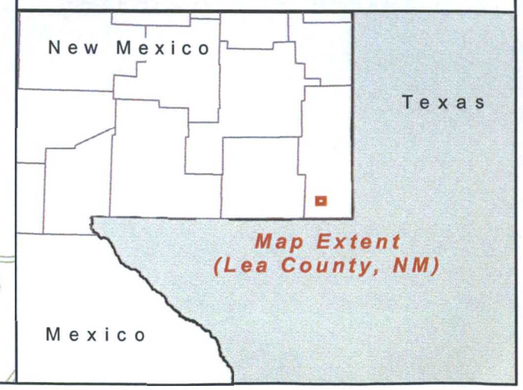
Drawn by: SAH	Date: 10/23/2017	Approved by: NLB

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- Striker 6 SWD #2
- Gas Well
- Permitted Gas Well
- Plugged Gas Well
- Permitted Injection
- Oil Well
- Permitted Oil Well
- Plugged Oil Well
- SWD Well
- Major Road
- Local Street
- 1/2 mile Radius
- 2 mile Radius
- Section Boundary
- Township Boundary



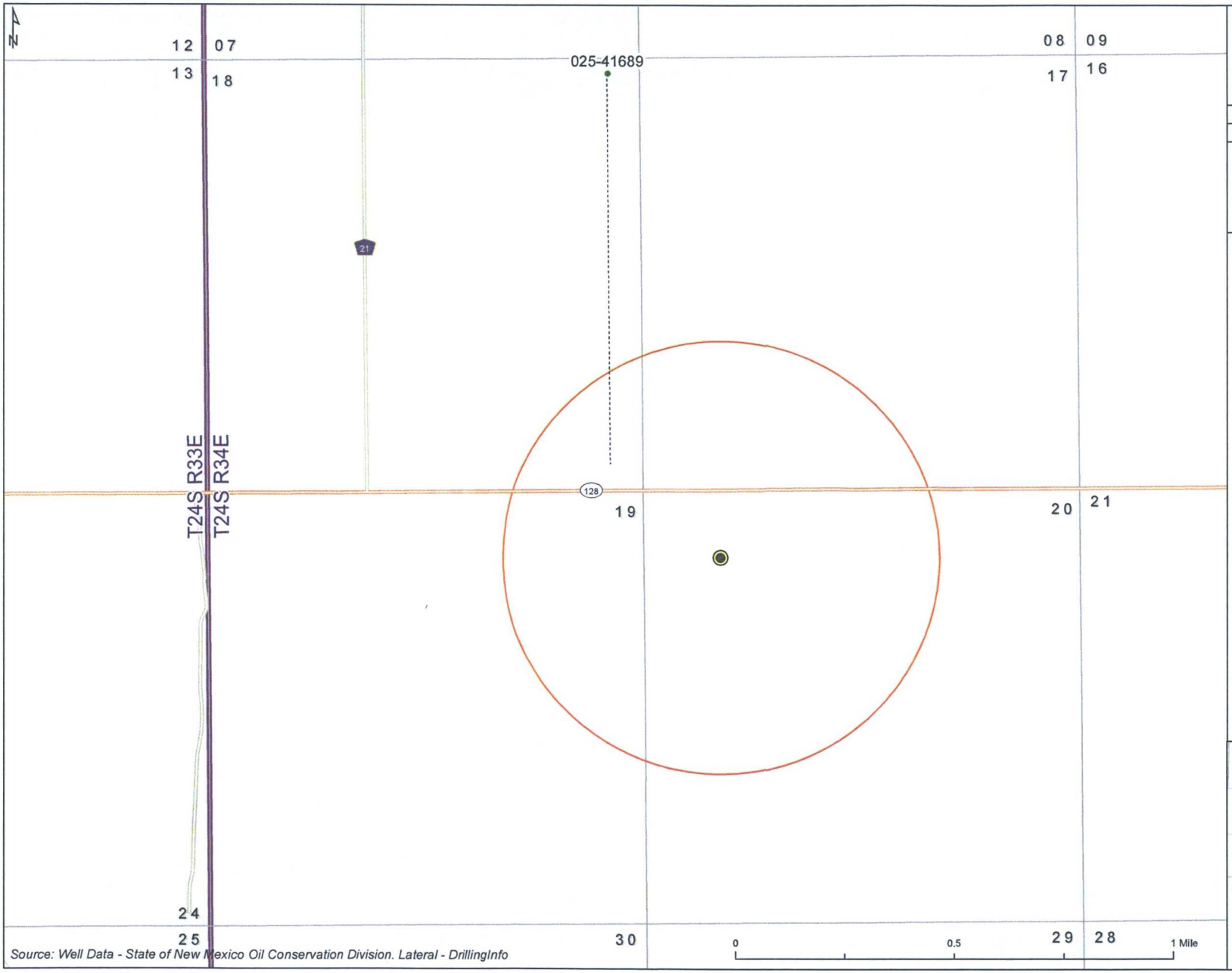
T24S R33E

T24S R34E

33815 43152 41383 41384 41687 41666 41688 41689 41957 41199 42160 42158 41665 41734 41733 41905 42159 27026 43925 26958 08371 25604 27267 26369 40448 27052 40566 43917 43401 08494 43408 42999 27491 29008 28534 28641 39560 39716 28196 28488 28873 29210 27997 27677

0 0.5 1 2 Mile

Source: State of New Mexico Oil Conservation Division



Source: Well Data - State of New Mexico Oil Conservation Division. Lateral - DrillingInfo

Striker 6 SWD #2
1/2 mile Area of Review

Lea County, NM

NGL Water Solutions Permian, LLC

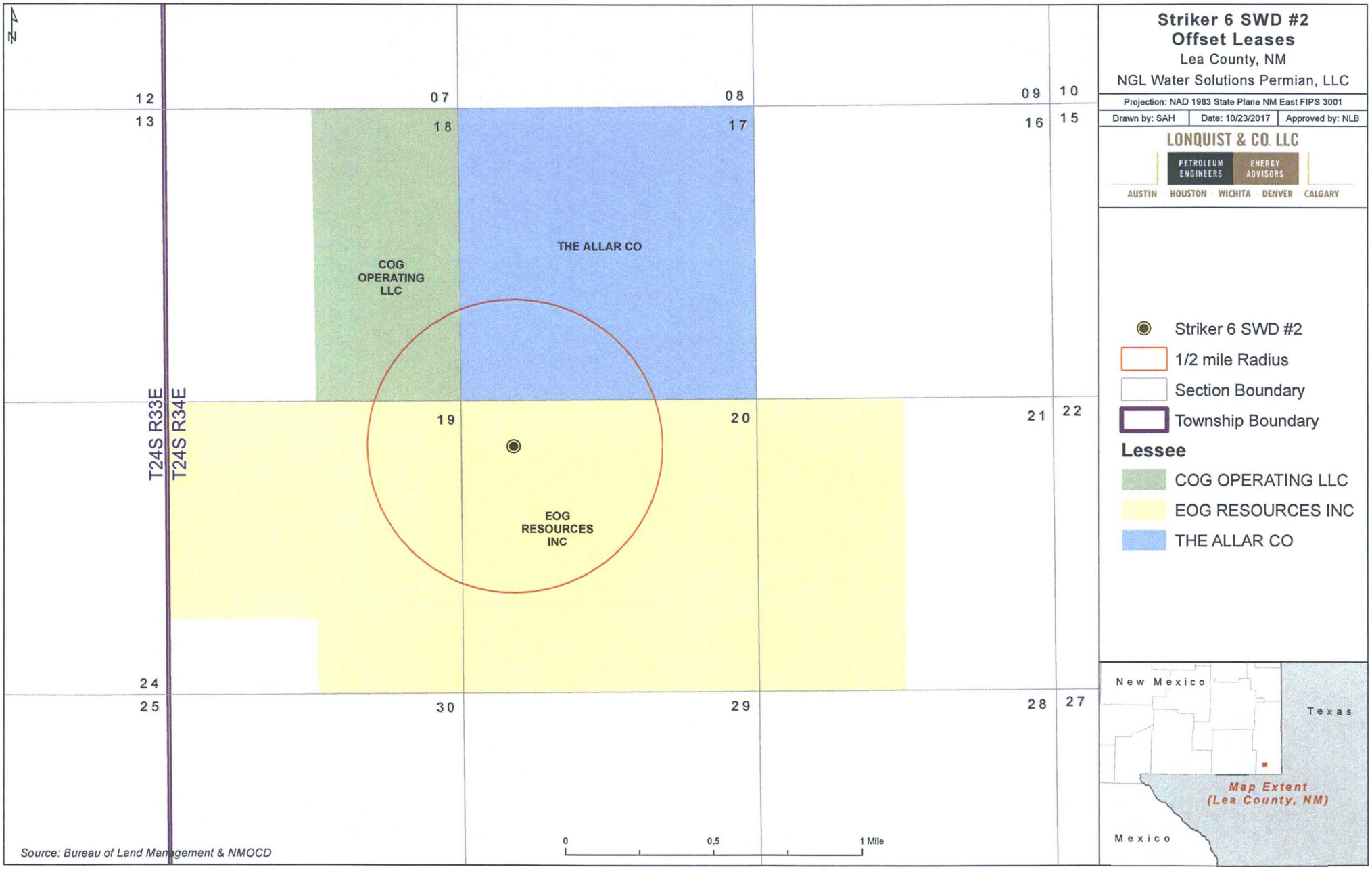
Projection: NAD 1983 State Plane NM East FIPS 3001		
Drawn by: SAH	Date: 10/23/2017	Approved by: NLB

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

- Striker 6 SWD #2
- Oil Well
- Lateral
- Major Road
- Local Street
- 1/2 mile Radius
- Section Boundary
- Township Boundary

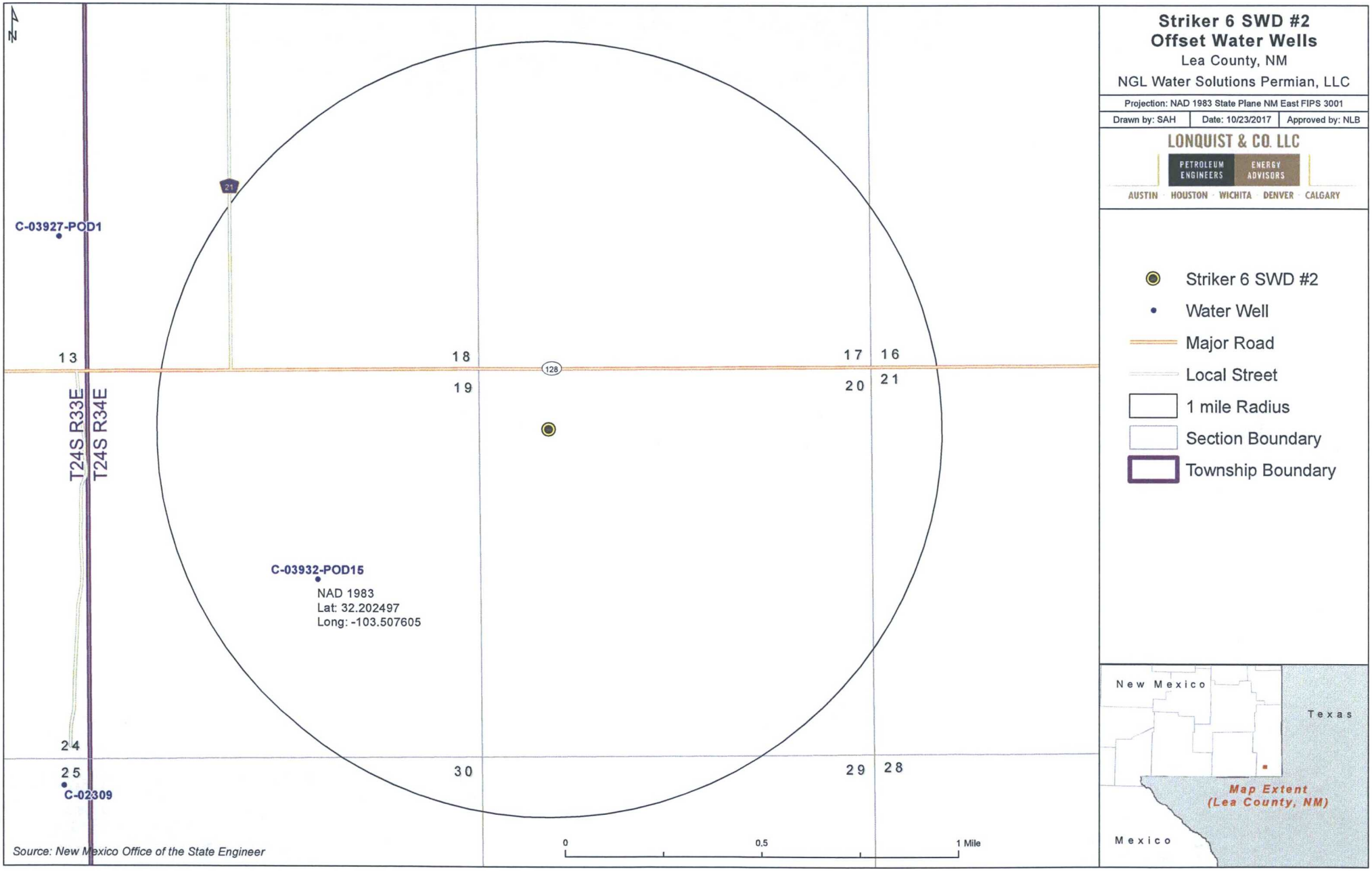
Half-Mile AOR
Striker 6 SWD #2

API (30-025-)	Well Name	Well Type	Status	Operator	TD (TVD)	Location	Date Drilled
41689	SEBASTIAN FEDERAL COM #004H	Oil	Active	COG OPERATING LLC	10877	A-18-24S-34E	7/2/2014


Striker 6 SWD #2
Offset Leases
Lea County, NM
NGL Water Solutions Permian, LLC
Projection: NAD 1983 State Plane NM East FIPS 3001
Drawn by: SAH
Date: 10/23/2017
Approved by: NLB
LONQUIST & CO. LLC
PETROLEUM ENGINEERS
ENERGY ADVISORS
AUSTIN HOUSTON WICHITA DENVER CALGARY
12
07
08
09
10
13
18
17
16
15
COG OPERATING LLC
THE ALLAR CO
T24S R33E
T24S R34E
19
20
21
22
EOG RESOURCES INC
24
25
30
29
28
27
0
0.5
1 Mile
Striker 6 SWD #2
1/2 mile Radius
Section Boundary
Township Boundary
Lessee
COG OPERATING LLC
EOG RESOURCES INC
THE ALLAR CO
New Mexico
Texas
Mexico
Map Extent
(Lea County, NM)
Source: Bureau of Land Management & NMOCD

Striker 6 SWD No. 2 Notice List			
Notice	**Address**	**Phone Number**	**Date Noticed**
Oil Conservation Division District IV	1220 South St. Francis Drive, Santa Fe, NM 87505	(505) 476-3440	10/25/2017
Oil Conservation Division District I	1625 N. French Drive, Hobbs, NM 88240	(575) 393-6161	10/25/2017
Surface Owner			
NGL WATER SOLUTIONS PERMIAN, LLC	1509 W Wall St., Ste. 306, Midland, TX 79701	(432) 685-0005	N/A
Leasehold Operators - 1/2 Mile			
THE ALLAR CO	PO BOX 1567, GRAHAM TX 76450		10/25/2017
EOG RESOURCES INC	PO BOX 4362, HOUSTON TX 772104362		10/25/2017
COG OPERATING LLC	600 W ILLINOIS AVE, MIDLAND TX 797014882	(432) 221-0500	10/25/2017

Striker 6 SWD #2: Offsetting Produced Water Analysis														
wellname	api	county	formation	ph	tds_mgL	sodium_mgL	calcium_mgL	iron_mgL	magnesium_mgL	manganese_mgL	chloride_mgL	bicarbonate_mgL	sulfate_mgL	co2_mgL
ANTELOPE RIDGE UNIT #002	3002520444	LEA	ATOKA	6.7	51475						31000	317	340	
BELL LAKE UNIT #009	3002520261	LEA	BONE SPRING		204652						130000	512	260	
THISTLE UNIT #071H	3002542425	Lea	BONE SPRING 1ST SAND	5.6	171476.3	55363.2	9140	40.4	1023	1.1	104576.4	244	560	770
BELL LAKE 19 STATE #002H	3002541515	Lea	BONE SPRING 2ND SAND	6.2		47148	6419	15	854	0	86572	232	670	240
BELL LAKE 19 STATE #004H	3002541517	Lea	BONE SPRING 2ND SAND	6.3		47537	6950	11	886	0	88389	171	650	210
BELL LAKE 19 STATE #001H	3002541024	Lea	BONE SPRING 2ND SAND	7		60725	8703	52	1020	0.88	113193	145	700	100
CUSTER MOUNTAIN UNIT #001	3002520756	LEA	MORROW		282741						176800	161	650	
PRONGHORN AHO FEDERAL #001	3002526496	LEA	STRAWN	5.5			20.1	0	12.2		35.5	61.1	48.8	
BELLOQ 2 STATE #002H	3001542895	EDDY	WOLFCAMP	6.8	119471.8	37359.2	5659.1	22.4	746.1		73172.5		1035.5	250


Striker 6 SWD #2
Offset Water Wells
Lea County, NM
NGL Water Solutions Permian, LLC
Projection: NAD 1983 State Plane NM East FIPS 3001
Drawn by: SAH
Date: 10/23/2017
Approved by: NLB
LONQUIST & CO. LLC
PETROLEUM ENGINEERS
ENERGY ADVISORS
AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY
C-03927-POD1
C-03932-POD15
NAD 1983
Lat: 32.202497
Long: -103.507605
C-02309
T24S R33E
T24S R34E
13
18
17
16
19
20
21
24
25
30
29
28
128
21
Striker 6 SWD #2
Water Well
Major Road
Local Street
1 mile Radius
Section Boundary
Township Boundary
0
0.5
1 Mile
Source: New Mexico Office of the State Engineer
New Mexico
Texas
Mexico
Map Extent
(Lea County, NM)

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: C 03932 **Subbasin:** CUB **Cross Reference:** -

Primary Purpose: EXP EXPLORATION

Primary Status: PMT PERMIT

Total Acres: **Subfile:** -

Total Diversion: 0 **Cause/Case:** -

Owner: BRYCE KARGER

Contact: ROBERT H. HOLDER

Documents on File

Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images 581433	EXPL	2016-01-27	PMT	APR	C 03932	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Source	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Other Location Desc
C 03932 POD1		3	1	2	05	24S	34E	642187	3569284	S5-BH-01
C 03932 POD10		4	4	3	07	24S	34E	640623	3566514	S8-BH-05
C 03932 POD11		1	2	4	15	24S	34E	644835	3565448	S15-BH-01
C 03932 POD12		1	2	4	15	24S	34E	645834	3565459	S15-BH-02
C 03932 POD13		4	2	3	15	24S	34E	645314	3565203	S15-BH-03
C 03932 POD14		4	3	3	15	24S	34E	644841	3564948	S15-BH-04
C 03932 POD15		1	1	4	19	24S	34E	640661	3563857	S15-BH-05
C 03932 POD2		4	2	2	05	24S	34E	642686	3569290	S5-BH-02
C 03932 POD3		4	3	2	05	24S	34E	642442	3568787	S5-BH-03
C 03932 POD4		1	3	4	05	24S	34E	642197	3568285	S5-BH-04
C 03932 POD5		2	4	4	05	24S	34E	642697	3568290	S5-BH-05
C 03932 POD6		1	1	4	07	24S	34E	640617	3567013	S8-BH-01
C 03932 POD7		4	1	3	08	24S	34E	641616	3567025	S8-BH-02
C 03932 POD8		4	2	4	07	24S	34E	641120	3566769	S8-BH-03
C 03932 POD9		4	3	3	08	24S	34E	641623	3566525	S8-BH-04

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

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

Beginning with the Issue dated
October 24, 2017
and ending with the Issue dated
October 24, 2017.

Daniel Russell
Publisher

Sworn and subscribed to before me this
24th day of October 2017.

Jennifer Warden
Administrative Coordinator

My commission expires
February 09, 2021
(Seal)

OFFICIAL SEAL
Jennifer Warden
NOTARY PUBLIC - STATE OF NEW MEXICO
My Commission Expires: 2-9-2021

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

LEGALS

LEGAL NOTICE
October 24, 2017

NGL Water Solutions Permian, LLC, 1509 W. Wall Street, Suite 306, Midland, Texas 79701 is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well Striker 6 SWD No. 2. The proposed well will be located 827' FNL & 942' FWL in Section 20, Township 24S, Range 34E in Lea County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Siluro-Devonian Formation (determined by offset log analysis) through an open hole completion between a maximum applied for top of 16,250 feet to a maximum depth of 18,100 feet. The maximum surface injection pressure will not exceed 3,250 psi with a maximum rate of 32,500 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) 600-1764.
#32181

67112661 00201631

LONQUIST & CO., LLC
3345 BEE CAVE ROAD, STE 201
AUSTIN, TX 78746

McMillan, Michael, EMNRD

From: TrackingUpdates@fedex.com
Sent: Friday, October 27, 2017 10:03 AM
To: Chris Weyand
Subject: FedEx Shipment 770588527670 Delivered

Your package has been delivered

Tracking # 770588527670

Ship date:
Wed, 10/25/2017

Maria Rivas
Lonquist and Co., LLC
Austin, TX 78738
US

Delivered

Delivery date:
Fri, 10/27/2017 10:00 am

1220 South Street
Oil Conservation Div. - District IV
Francis Drive
SANTA FE, NM 87505
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770588527670
Status:	Delivered: 10/27/2017 10:00 AM Signed for By: N.BARELA
Reference:	#1526
Signed for by:	N.BARELA
Delivery location:	SANTA FE, NM
Delivered to:	Mailroom
Service type:	FedEx 2Day A.M
Packaging type:	Your Packaging
Number of pieces:	1
Weight:	1.00 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	10/27/2017 by 10:30 am

McMillan, Michael, EMNRD

From: TrackingUpdates@fedex.com
Sent: Friday, October 27, 2017 9:52 AM
To: Chris Weyand
Subject: FedEx Shipment 770588549789 Delivered

Your package has been delivered

Tracking # 770588549789

Ship date:
Wed, 10/25/2017

Maria Rivas
Lonquist and Co., LLC
Austin, TX 78738
US

Delivered

Delivery date:
Fri, 10/27/2017 9:49 am

Oil Conservation Div. District 1
NM Energy, Minerals & Nat Res Dept
1625 North French Drive
HOBBS, NM 88240
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770588549789
Status:	Delivered: 10/27/2017 09:49 AM Signed for By: BCASCELLS
Reference:	Project #1526
Signed for by:	BCASCELLS
Delivery location:	Hobbs, NM
Service type:	FedEx Ground
Packaging type:	Package
Number of pieces:	1
Weight:	1.00 lb.
Standard transit:	10/27/2017

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 10:51 AM CDT on 10/27/2017.

All weights are estimated.

McMillan, Michael, EMNRD

From: TrackingUpdates@fedex.com
Sent: Friday, October 27, 2017 2:16 PM
To: Chris Weyand
Subject: FedEx Shipment 770588676590 Delivered

Your package has been delivered

Tracking # 770588676590

Ship date:
Wed, 10/25/2017

Maria Rivas
Lonquist and Co., LLC
Austin, TX 78738
US

Delivered

Delivery date:
Fri, 10/27/2017 3:13 pm

COG Operating LLC
COG Operating LLC
600 West Illinois Avenue
MIDLAND, TX 79701
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770588676590
Status:	Delivered: 10/27/2017 3:13 PM Signed for By: UARANDA
Reference:	#1526
Signed for by:	UARANDA
Delivery location:	Midland, TX
Service type:	FedEx Ground
Packaging type:	Package
Number of pieces:	1
Weight:	1.00 lb.
Standard transit:	10/27/2017

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 3:15 PM CDT on 10/27/2017.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date the package should be delivered by, based on the selected service, destination, and ship date. Limitations and exceptions may apply.Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

McMillan, Michael, EMNRD

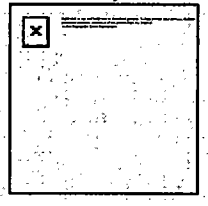
From: auto-reply@usps.com
Sent: Tuesday, October 31, 2017 11:14 AM
To: Chris Weyand
Subject: USPS® Item Delivered, PO Box 70171000000034025457

Hello **Chris Weyand**,

Your item has been delivered and is available at a PO Box at 5:08 am on October 30, 2017 in HOUSTON, TX 77201.

Tracking Number:
70171000000034025457

Delivered, PO Box



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Want regular updates on your package? **Set up text alerts**.

McMillan, Michael, EMNRD

From: Chris Weyand <chris@lonquist.com>
Sent: Friday, November 17, 2017 11:58 AM
To: McMillan, Michael, EMNRD
Subject: RE: Striker 6 SWD
Attachments: scanner@lonquist.com_20171109_162940.pdf

Mike,

Please see attached.

Thanks,

Chris Weyand
Staff Engineer
Lonquist & Co., LLC
(512) 600-1764 Direct
(210) 846-2673 Mobile

From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]
Sent: Friday, November 17, 2017 12:23 PM
To: Chris Weyand
Subject: RE: Striker 6 SWD

Looking at the Striker 6 SWD Well No. 2, I do not see that Allar Company was notified.
Mike

From: Chris Weyand [mailto:chris@lonquist.com]
Sent: Friday, November 17, 2017 8:35 AM
To: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Subject: Striker 6 SWD

Hi Mike,

Are you able to provide any status updates on the Striker 6 SWD #1 and #2 applications?

Thanks,

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

Chris Weyand · Staff Engineer · Lonquist & Co., LLC · 12912 Hill Country Blvd., Suite F-200 · Bee Cave, Texas, USA 78738
Direct: 512-600-1764 · Cell: 210-846-2673 · Fax: 512-732-9816 · chris@lonquist.com · www.lonquist.com

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

EOG Resources Inc.
P. O. Box 4362
Houston, Texas 77210-4362

9590 9402 3107 7

2. Article Number (Transfer from service label)

7017 1000 0000 3402 5457

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) M Crites C. Date of Delivery

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

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

7017 1000 0000 3402 5457

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☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $ Stricker 6 8WD #2
Postage
$
Total Postage
$
Sent To
Street and A
City, State,

Postmark Here

EOG Resources Inc.
P. O. Box 4362
Houston, Texas 77210-4362

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

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

The Allar Company
P. O. Box 1567
Graham, Texas 76450

9590 9402 3161 [illegible]

2. Article Number (Transfer from service label)

7017 1000 0000 3402 5464

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Melanie Barnett ☑ Agent ☐ Addressee

B. Received by (Printed Name) Melanie Barnett C. Date of Delivery 10-31-17

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

GRAHAM TX 760 OCT 31 2017

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☑ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

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☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
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☐ Adult Signature Restricted Delivery $
Postage
$
Total Postage
$
Sent To
Street and A
City, State,

Postmark Here

The Allar Company
P. O. Box 1567
Graham, Texas 76450

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

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 03943 POD1		CUB	LE	2	4	2	21	24S	34E	644523	3564266	610	431	179

Average Depth to Water: **431 feet**

Minimum Depth: **431 feet**

Maximum Depth: **431 feet**

Record Count: 1

PLSS Search:

Section(s): 18-21 **Township:** 24S **Range:** 34E

11/17/17 11:32 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

McMillan, Michael, EMNRD

From: auto-reply@usps.com
Sent: Tuesday, October 31, 2017 11:14 AM
To: Chris Weyand
Subject: USPS® Item Delivered, PO Box 70171000000034025457

UNITED STATES POSTAL SERVICE®

Hello **Chris Weyand**,

Your item has been delivered and is available at a PO Box at 5:08 am on October 30, 2017 in HOUSTON, TX 77201.

Tracking Number: **70171000000034025457**

Delivered, PO Box

Tracking & Delivery Options

My Account

Visit **USPS Tracking®** to check the most up-to-date status of your package. Sign up for **Informed Delivery®** to digitally preview the address side of your incoming letter-sized mail and manage your packages scheduled to arrive soon! To update how frequently you receive emails from USPS, log in to your **USPS.com** account.

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

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

Well No. 2 Well Name(s): Striker 6 SWD — Application complete 11-7-2017

API: 30-0 25-Pending Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 942 FWL Lot ___ or Unit D Sec 20 Tsp 24S Rge 34E County Lea

General Location: 2 ½ miles NW of AL Pool: SWD; Devonian-Silurian Pool No.: 97869

BLM 100K Map: 541 Operator: NGL Water Solutions Permian LLC OGRID: 372338 Contact: Chris Weyand Agent

COMPLIANCE RULE 5.9: Total Wells: 3 Inactive: 0 Fincl Assur: OK Compl. Order N/A **IS 5.9 OK?** Y Date: ~~11-20-2017~~ 11-05-2017

WELL FILE REVIEWED ○ Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed ○ or **RE-ENTER:** Before Conv. ○ After Conv. ○ Logs in Imaging: NA

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement (Sx or Cf)	Cement Top and Determination Method
Planned __or Existing __ Surface	26"/20"	1300		2700	Surface/Visual
Planned __or Existing __ Interm/Prod	17½/13⅜	5200		2850	Surface/Visual
Planned __or Existing __ Interm/Prod	11½/9⅝	12300	500	1700	Surface/Visual
Planned __or Existing __ Prod/Liner	8¾/7"	16250		505	12000/C-BL
Planned __or Existing __ Liner					
Planned __or Existing __ OH / PERF	16250/18100		Inj Length	1850	

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		DV	16215
Confining Unit: Litho. Struc. Por.		WD	16085
Proposed Inj Interval TOP:			
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 18100 PBTD ___ A→5½" Surface/Int 4½"/Lnr

NEW TD 18100 NEW PBTD ___

NEW Open Hole ● or NEW Perfs ○

Tubing Size 4 in. Inter Coated? ___

Proposed Packer Depth 16200 ft

Min. Packer Depth 16200 (100-ft limit)

Proposed Max. Surface Press. 1615 psi

Admin. Inj. Press. 5250 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NA Noticed? ___ BLM Sec Ord ○ WIPP ○ Noticed? ___ Salt/Salado T: ___ B: 4820 **NW:** Cliff House fm ___

FRESH WATER: Aquifer Rustler Max Depth 430 **HYDRO AFFIRM STATEMENT By Qualified Person** ✓

NMOSE Basin: Carlsbad **CAPITAN REEF:** thru ___ adj NA **No. Wells within 1-Mile Radius?** 0 FW Analysis

Disposal Fluid: Formation Source(s) Bone Spring, Atoka, Morrow Analysis? ___ On Lease ○ Operator Only ○ or Commercial ○

Disposal Int: Inject Rate (Avg/Max BWPD): 25K/32.5K Protectable Waters? ___ Source: ___ System: Closed or Open

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

AOR Wells: 1/2-M Radius Map? Y Well List? 1 Total No. Wells Penetrating Interval: 0 Horizontals? 1 (Not penetrating injection)

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

Penetrating Wells: No. P&A Wells 0 Num Repairs? ___ on which well(s)? ___ Diagrams? ___

NOTICE: Newspaper Date 10-24-2017 Mineral Owner BLM Surface Owner NGL N. Date NA 10-27-2017

RULE 26.7(A): Identified Tracts? ___ Affected Persons: EOG, COG, All AORs N. Date ~~11-7-2017~~ 11-17-2017 (All AORs)

Order Conditions: Issues: C-B-L → 500' to plug back / base of liner

Add Order Cond: _____