

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 _____

[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.

Chris Weyand

Print or Type Name

Signature

Consulting Engineer

Title

8/9/2017

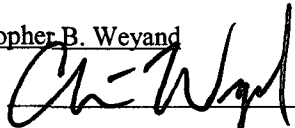
Date

chris@lonquist.com

e-mail Address

- SWD
 - NGL Water Solutions
 Permian, LLC
 372388
 Well
 - Striker (SWD #)
 30-015-44406
 Pool
 - SWD, Devonian-Silurian
 97869

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, TX 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: 8/9/2017
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: _____

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: NGL WATER SOLUTIONS PERMIAN, LLCWELL NAME & NUMBER: STRIKER 1 SWD #1

WELL LOCATION:	<u>459' FNL & 1,469' FEL</u>	<u>B</u>	<u>15</u>	<u>23S</u>	<u>28E</u>
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 26.000"Casing Size: 20.000"Cemented with: 1,195 sx.or _____ ft³Top of Cement: surfaceMethod Determined: circulation1st Intermediate CasingHole Size: 17.500"Casing Size: 13.375"Cemented with: 1,445 sx.or _____ ft³Top of Cement: surfaceMethod Determined: circulation2nd Intermediate CasingHole Size: 12.250"Casing Size: 9.625"Cemented with: 1,855 sx.or _____ ft³Top of Cement: surfaceMethod Determined: circulation

Production Liner

Hole Size: 8.500"

Casing Size: 7.625"

Cemented with: 570 sx.

or _____ ft³

Top of Cement: 9,400'

Method Determined: calculation

Total Depth: 15,100'

Injection Interval

13,750 feet to 15,100 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.500", 17 lb/ft, L-80, BT&C from 0'- 9,400' and 4.500", 11.6 lb/ft, P-110 LTC from 9,400'- 13,700'

Lining Material: Duoline

Type of Packer: D&L Oil Tools 7.625" Permapack Packer – Single Bore

Packer Setting Depth: 13,700'

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:

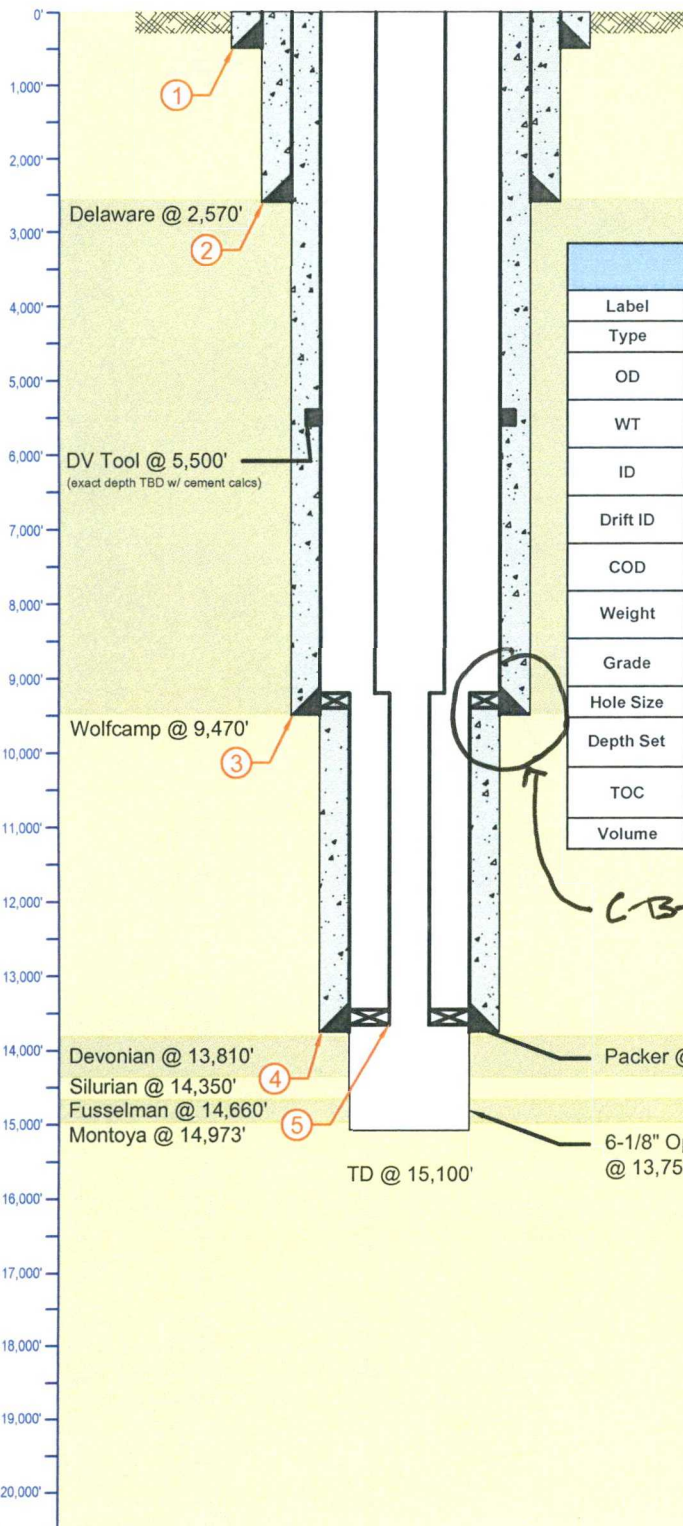
Delaware: 2,570'

Bone Spring: 6,178'

Wolfcamp: 9,470'

Atoka: 11,312'

Morrow: 12,040'



KB:	NA
BHF:	NA
GL:	NA
Spud:	NA

Casing/Tubing Information					
Label	1	2	3	4	5
Type	Surface	Intermediate	Production	Liner	Tubing
OD	20"	13-3/8"	9-5/8"	7-5/8"	5-1/2" 4-1/2"
WT	0.438"	0.480"	0.472"	0.562"	0.304" 0.250"
ID	19.124"	12.415"	8.681"	6.501"	4.892" 4.000"
Drift ID	18.936"	12.259"	8.525"	6.376"	4.767" 3.875"
COD	21.000"	14.375"	10.625"	7.625"	6.050" 5.000"
Weight	94 lb/ft	68 lb/ft	47 lb/ft	42.8 lb/ft	17 lb/ft 11.6 lb/ft
Grade	J-55 STC	L-80 STC	HCL-80 LTC	P-110 UFJ	L-80 BTC P-110 LTC
Hole Size	26"	17-1/2"	12-1/4"	8-1/2"	Varies
Depth Set	500'	2,600'	9,700'	9,400' - 13,750'	0' - 9,400' 9,400' - 13,700'
TOC	Surface (circulation)	Surface (circulation)	Surface (circulation)	9,400'	NA
Volume	1,195 sks	1,445 sks	1,855 sks	570 sks	NA

CBL

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

Country: USA

Location:

API No:

State ID No:

Drawn: WHG

Rev No: 1

Striker 1 SWD No. 1

State/Province: New Mexico

Site:

Field:

Project No:

Reviewed: CBW

Notes:

County/Parish: Eddy

Survey/STR: Sec. 15-23S-28E

Well Type/Status: SWD

Date: 8/7/17

Approved: SLP

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 NGL WATER SOLUTIONS PERMIAN, LLC 1509 W WALL ST, STE 306 MIDLAND, TX 79701		⁴ OGRID Number 372338
		⁵ API Number TBD
⁴ Property Code	³ Property Name STRIKER 1 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
B	15	23S	28E		459	NORTH	1,469	EAST	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; Silurian-Devonian	Pool Code 96101
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Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type Private	¹⁵ Ground Level Elevation
¹⁶ Multiple N	¹⁷ Proposed Depth 15,100'	¹⁸ Formation Siluro-Devonian	¹⁹ Contractor TBD	²⁰ Spud Date ASAP
Depth to Ground water 33'	Distance from nearest fresh water well 811'		Distance to nearest surface water 4,362'	

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

²¹ Proposed Casing and Cement Program

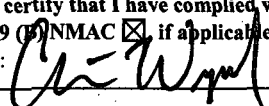
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	26"	20"	94 lb/ft	500'	1,195	Surface
Intermediate	17.5"	13.375"	68 lb/ft	2,600'	1,445	Surface
Production	12.25"	9.625"	47 lb/ft	9,700'	1,855	Surface
Prod. Liner	8.5"	7.625"	42.8 lb/ft	9,400' - 13,750'	570	9,400'
Tubing	N/A	5.5"	17 lb/ft	0' - 9,400'	N/A	N/A
Tubing	N/A	4.5"	11.6 lb/ft	9,400' - 13,700'	N/A	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	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 <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature:  Printed name: Christopher B. Weyand Title: Consulting Engineer E-mail Address: chris@longquist.com Date: 8/9/2017	OIL CONSERVATION DIVISION Approved By: _____ Title: _____ Approved Date: _____ Expiration Date: _____ Conditions of Approval Attached	
	Phone: (512) 600-1764	

NGL Water Solutions Permian, LLC

Striker 1 SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Striker 1 SWD
Well No.	1
Location	S-15 T-23S R-28E
Footage Location	459' FNL & 1,469' FEL

2.

a. Wellbore Description

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	20"	13.375"	9.625"	7.625"
WT	0.438"	0.480"	0.472"	0.562"
ID	19.124"	12.415"	8.681"	6.501"
Drift ID	18.936"	12.259"	8.525"	6.376"
COD	21.00"	14.375"	10.625"	7.625"
Weight	94 lb/ft	68 lb/ft	47 lb/ft	42.8 lb/ft
Grade	J-55	L-80	HCL-80	P-110
Hole Size	26"	17.5"	12.25"	8.5"
Depth Set	500'	2,600'	9,700'	9,400' – 13,750'

b. Cementing Program

Cement Information				
Casing String	Surface	Intermediate	Production	Liner
Lead Cement	C	C	NeoCem	H
Lead Cement Volume	1,195	1,075	Stage 1: 545 sks Stage 2: 770 sks	570
Tail Cement		C	NeoCem/HALCEM	
Tail Cement Volume		370	Stage 1: 390 sks Stage 2: 150 sks	
Cement Excess	100%	25%	25%	25%
TOC	Surface	Surface	Surface	9,400'
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"	5.000"
Weight	17 lb/ft	11.6 lb/ft
Grade	L-80 BTC	P-110 LTC
Depth Set	0'-9,400'	9,400'-13,700'

Tubing will be lined with Duoline.

4. Packer Description

D&L Oil Tools 7.625" Permapack Packer – Single Bore

B. Completion Information

1. Injection Formation: Devonian, Silurian, Fusselman, Montoya (Top 100')
2. Gross Injection Interval: 13,750' – 15,100'

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
Delaware	2,570'
Bone Spring	6,178'
Wolfcamp	9,470'
Atoka	11,312'
Morrow	12,040'

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: 30,500 BPD

2. Closed System

3. Anticipated Injection Pressure:

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

Maximum Injection Pressure: 2,750 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 Delaware, Bone Spring, Wolfcamp, 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

Formation	Depth
Rustler	Eroded, not present
Salado	240'
Delaware	2,570'
Bone Spring	6,178'
Wolfcamp	9,470'
Strawn	11,072'
Atoka	11,312'
Morrow	12,040'
Mississippian Lime	12,817'
Woodford	13,664'
Devonian	13,810'

at surface & to limited depth [RM-7]

B. Underground Sources of Drinking Water

Within 1-mile of the proposed Striker 1 SWD #1 location water wells range in depth from 40' to 240'. Reported depths to fresh water range from 12' to 54' (33' on average). (This is not a known fresh water aquifer, but rather represents a sporadic alluvial source.)

Still a Cenozoic USDW/alluvial + Rustler aquifer [84-4077]
Surface casing covers interval till

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

Quite a few fresh water wells exist within one mile of the well location. Fresh water samples were obtained from two of the wells (SP-01955 & C-00608) and analysis of these samples, a map, and the Water Right Summary from the New Mexico Office of the State Engineer are attached.

Water Rights Consolidation / No specific well - surface water rights along Pecos
surface permit / Intrepid

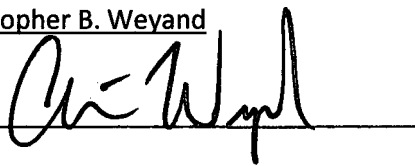
XII. Affirmative Statement of Examination of Geologic and Engineering Data

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

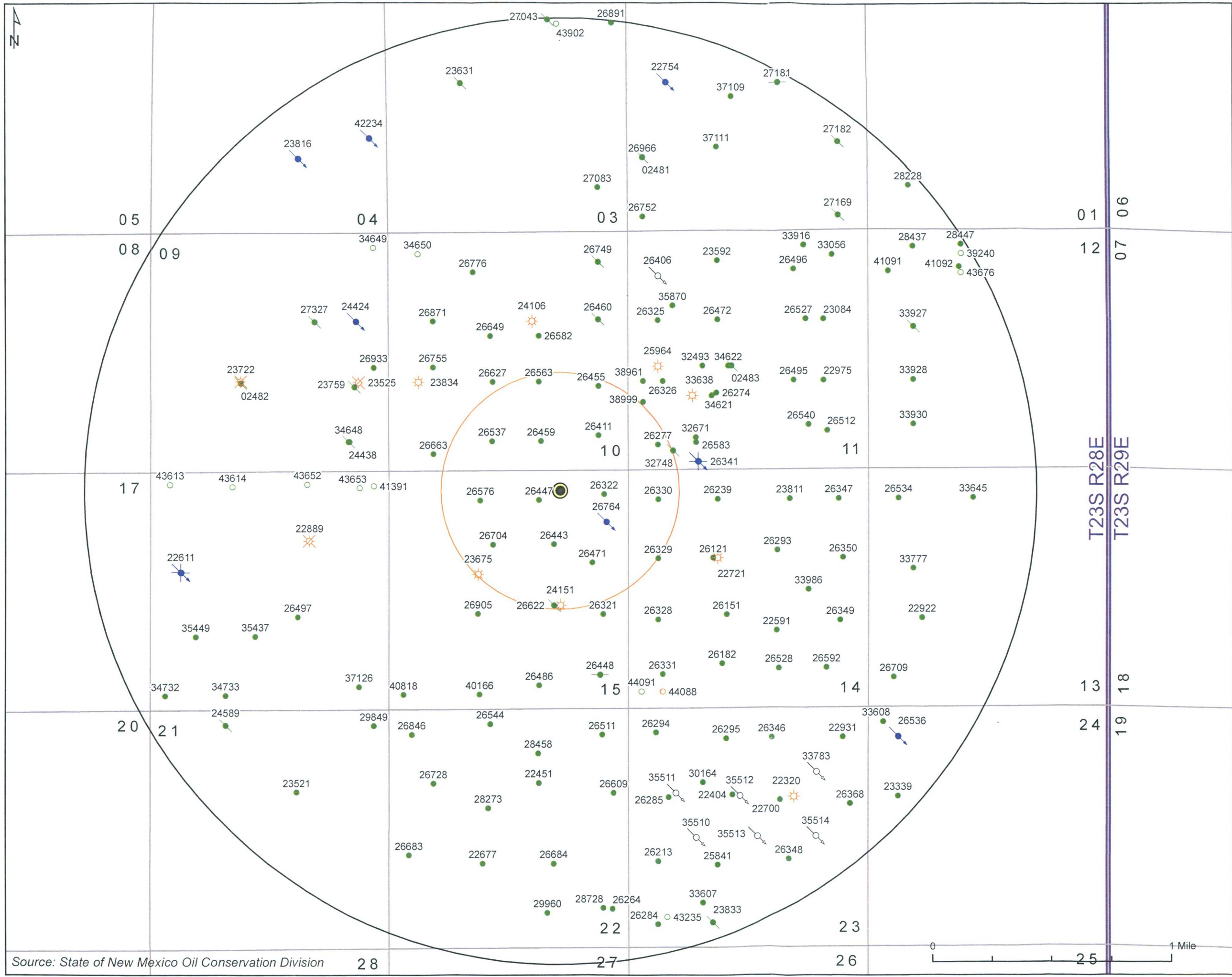
TITLE: Consulting Engineer

SIGNATURE: _____



DATE: _____

8/9/2017



Striker 1 SWD #1
2 mile Area of Review
Eddy County, NM
NGL Water Solutions Permian, LLC

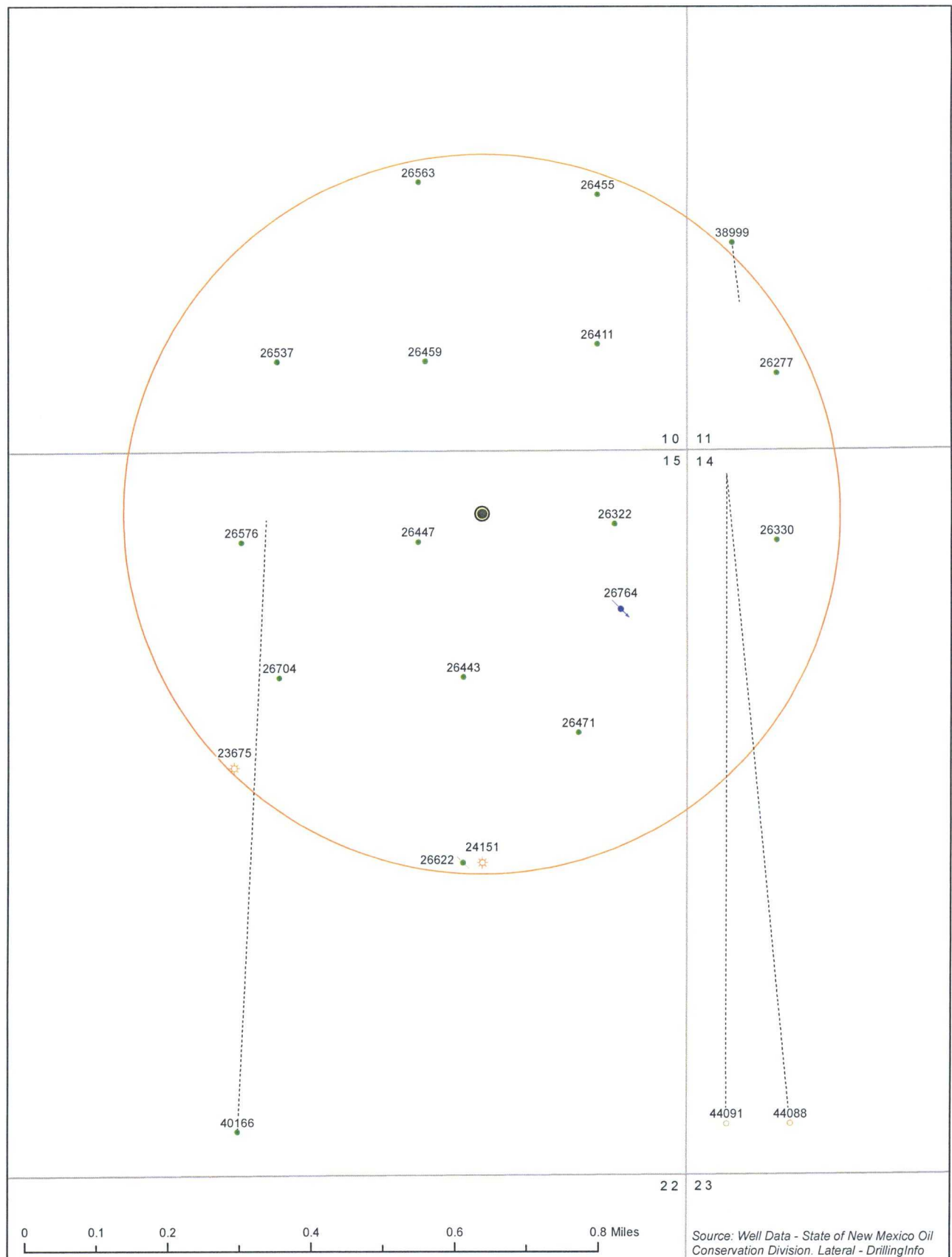
Projection: NAD 1983 State Plane NM East FIPS 3001

Drawn by: SAH Date: 4/13/2017 Approved by: NLB

LONQUIST & CO. LLC
AUSTIN HOUSTON PETROLEUM ENGINEERS ENERGY ADVISORS WICHITA CALGARY
www.lonquist.com

- Striker 1 SWD #1
- ☀ Gas Well
- Permitted Gas Well
- ⊗ Plugged Gas Well
- Oil Well
- TA Oil Well
- Plugged Oil Well
- Permitted Oil Well
- ⊗ Injection Well
- SWD Well
- Plugged SWD Well
- 1/2 mile Radius
- 2 mile Radius
- Section Boundary
- Township Boundary





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

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

Eddy County, NM

NGL Water Solutions Permian, LLC

Projection: NAD 1983 State Plane NM East FIPS 3001

Drawn by: SAH Date: 4/13/2017 Approved by: NLB

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

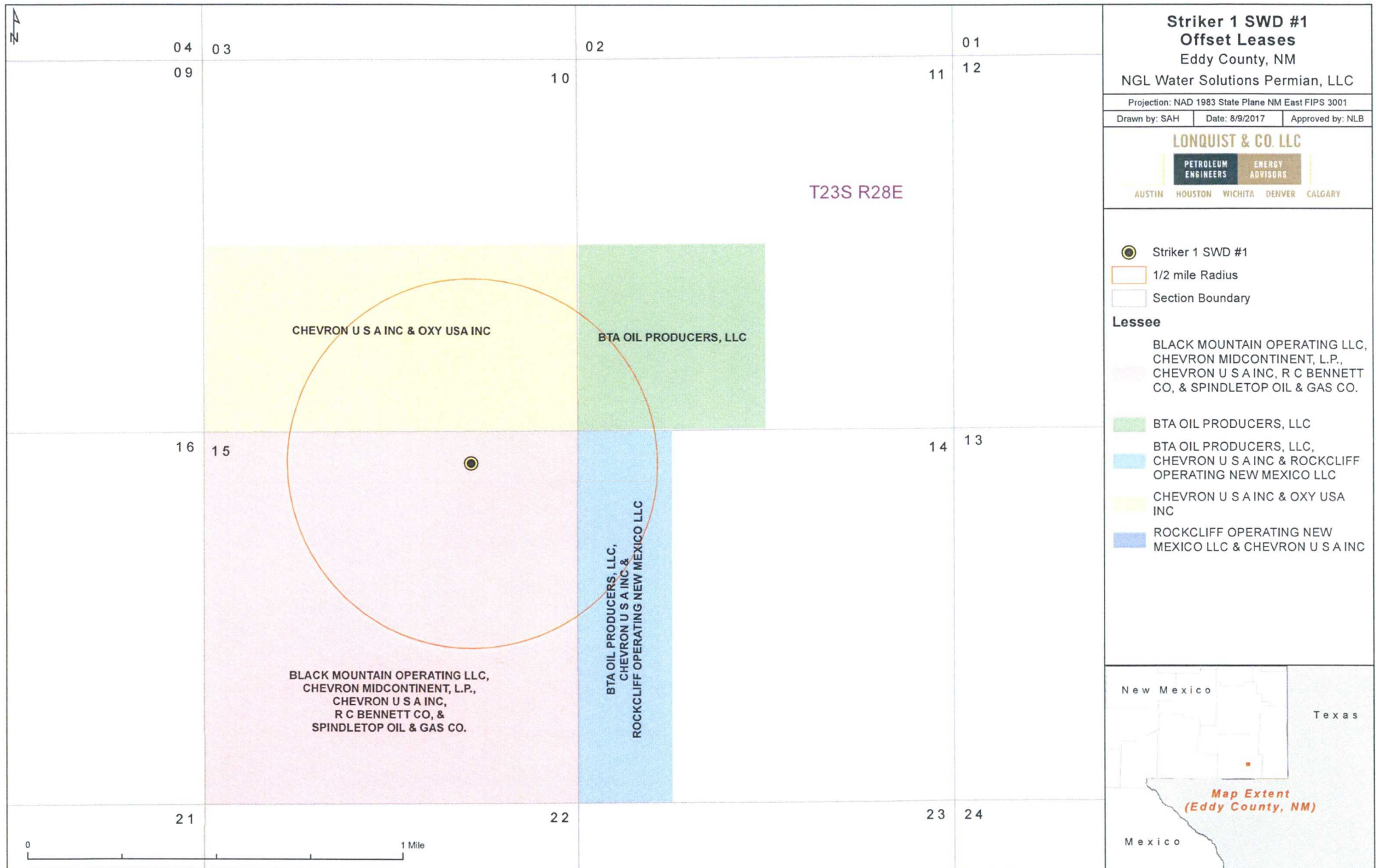
www.lcapi.com

- Striker 1 SWD #1
- ⊙ Gas Well
- Permitted Gas Well
- Oil Well
- Plugged Oil Well
- Permitted Oil Well
- ⊙ SWD Well
- Lateral
- 1/2 mile Radius
- Section Boundary



Half-Mile AOR
Striker 1 SWD #1

API (30-015-)	Well Name	Well Type	Status	Operator	TD (TVD)	Location	Date Drilled
23675	NYMEYER #001	Gas	Active	CHEVRON MIDCONTINENT, L.P.	12820	F-15-23S-28E	4/5/1981
24151	YARBRO A COM #001	Gas	Active	SPINDLETOP OIL & GAS CO.	12875	J-15-23S-28E	6/9/1982
26277	PARDUE C 8808 JVP #002	Oil	Active	BTA OIL PRODUCERS, LLC	6250	M-11-23S-28E	2/22/1990
26322	SIEBERT #001	Oil	Active	CHEVRON U S A INC	6219	A-15-23S-28E	5/20/1990
26330	TELEDYNE #002	Oil	Active	BTA OIL PRODUCERS, LLC	6187	D-14-23S-28E	5/6/1990
26411	PARDUE FARMS #001	Oil	Active	CHEVRON U S A INC	6200	P-10-23S-28E	7/25/1990
26443	KIDD #001	Oil	Active	R C BENNETT CO	6400	G-15-23S-28E	1/10/1991
26447	CHAVES #001	Oil	Active	CHEVRON U S A INC	6211	B-15-23S-28E	9/27/1990
26455	LEWIS ESTATE #001	Oil	Active	CHEVRON U S A INC	6240	I-10-23S-28E	9/11/1990
26459	PARDUE FARMS #003	Oil	Active	CHEVRON U S A INC	6200	O-10-23S-28E	10/7/1990
26471	WITT #001	Oil	Active	BLACK MOUNTAIN OPERATING LLC	6250	H-15-23S-28E	10/17/1990
26537	URQUIDEZ #002	Oil	Active	OXY USA INC	6400	N-10-23S-28E	12/30/1990
26563	PARDUE FARMS #005	Oil	Active	CHEVRON U S A INC	6215	J-10-23S-28E	1/10/1990
26576	NYMEYER A #001	Oil	Active	CHEVRON MIDCONTINENT, L.P.	6390	C-15-23S-28E	2/1/1991
26622	USA CAVINESS PAINE #004	Oil	Plugged	CHEVRON U S A INC	6352	J-15-23S-28E	2/4/1991
26704	NYMEYER A #002	Oil	Active	CHEVRON MIDCONTINENT, L.P.	6400	F-15-23S-28E	7/11/1991
26764	EAST LOVING SWD #001	SWD	Active	CHEVRON U S A INC	4600	A-15-23S-28E	6/24/1991
38999	PARDUE C 8808 JVP #005	Oil	Active	BTA OIL PRODUCERS, LLC	8503	L-11-23S-28E	4/13/2012
40166	HERITAGE 2 15 #001H	Oil	Active	CHEVRON MIDCONTINENT, L.P.	12332	N-15-23S-28E	6/4/2012
44088	EL TORO INVICTA 14 #301H	Gas	Permitted	ROCKCLIFF OPERATING NEW MEXICO LLC	0	M-14-23S-28E	NA
44091	EL TORO INVICTA 14 #221H	Oil	Permitted	ROCKCLIFF OPERATING NEW MEXICO LLC	0	M-14-23S-28E	NA



Striker 1 SWD No. 1 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	8/9/2017
Oil Conservation Division District II	811 S. First St., Artesia, NM 88210	(575) 748-1283	8/9/2017
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			
CHEVRON MIDCONTINENT, L.P.	15 Smith Rd, Midland, TX 79705	(866) 212-1212	8/9/2017
SPINDLETOP OIL & GAS CO.	P.O. Box 741988, Dallas, TX 75374	(972) 644-2581	8/9/2017
BTA OIL PRODUCERS, LLC	104 S Pecos, Midland, TX 79701	(432) 682-3753	8/9/2017
CHEVRON U S A INC	P.O. Box 2100, Houston, TX 77252	(866) 212-1212	8/9/2017
R C BENNETT CO	P.O. Box 264, Midland, TX 79702		8/9/2017
BLACK MOUNTAIN OPERATING LLC	500 Main Street Suite 1200, Fort Worth, TX 76102	(817) 698-9901	8/9/2017
ROCKCLIFF OPERATING NEW MEXICO LLC	1301 McKinney Steet, Suite 1300, Houston, TX 77010	(713) 351-0500	8/9/2017
OXY USA INC	P.O. Box 4294, Houston, TX 77210	(713) 215-7000	8/9/2017

This legal notice will appear in the Carlsbad Current-Argus on Wednesday, August 9, 2017, and run in the paper for one day. The affidavit of publication will be forwarded to the New Mexico Oil Conservation Division upon receipt.

Legal Notice

NGL Water Solutions Permian, LLC, 1509 W. Wall Street, Suite 306, Midland, Texas 79701 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 Striker 1 SWD No. 1. The proposed well will be located 459' FNL & 1,469' FEL in Section 15, Township 23S, Range 28E in Eddy 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 13,750 feet to a maximum depth of 15,100 feet. The maximum surface injection pressure will not exceed 2,750 psi with a maximum rate of 30,500 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) 600-1774.

Striker 1 SWD #1 - Produced Water Analysis																
wellname	api	formation	ph	tds_mgl	sodium_mgl	calcium_mgl	iron_mgl	barium_mgl	magnesium_mgl	potassium_mgl	strontium_mgl	chloride_mgl	bicarbonate_mgl	sulfate_mgl	h2s_mgl	co2_mgl
WILLIAMS GAS COM #001	3001522686	ATOKA	8.2	236539								138000	2370	3950		
WILLIAMS GAS COM #001	3001522686	ATOKA	7.9	217050								128000	1030	3300		
SPUD 16 STATE #009H	3001538059	AVALON UPPER	7	154164.4	54960.3	797.8	35.2		202.5			92020.7	3660	0		1100
SPUD 16 STATE #009H	3001538059	AVALON UPPER	7	154965.1	58687.2	719	54			131		91118	1671.4	1502		70
REMUDA BASIN UNIT #001	3001503691	BONE SPRING		271010								168800	130	100		
SPUD 16 STATE #010H	3001541148	BONE SPRING 1ST SAND	7	152943.4	54183.5	1409.3	16.2		274.9			92807.2	2305.8	0		400
SPUD 16 STATE #011H	3001541149	BONE SPRING 1ST SAND	7	153041.8	53895.7	1294.2	0		272.6			92918.4	2708.4	0		460
SPUD 16 STATE #012H	3001541150	BONE SPRING 1ST SAND	7	146424.7	55118.3	1444.9	11.4		312.8			84786.2	2659.6	0		420
SPUD 16 STATE #008H	3001540038	BONE SPRING 1ST SAND	6.7	153750.7	57590.8	1198	10		244			91697	951.6	755		60
GOMEZ #001	3001522595	DELAWARE	6.4	133440								80500	303	2100		
KIM #001	3001524589	DELAWARE	4.9	202807	60819.2	20577.5	2.84	6.816	4029.39	994	570.272	143136	38.624	213.568	11.36	
CARRASCO 14 #002	3001526293	DELAWARE-BRUSHY CANYON	4.3	203960	69637.6	23562	77.35					148750	536.69	148.75	0	
AMOCO FEDERAL 11 #002	3001526540	DELAWARE-BRUSHY CANYON	4.5	244866	91560.9	21510	101.575					179250	72.895	119.5	0	
AMOCO FEDERAL 11 #005	3001526527	DELAWARE-BRUSHY CANYON	6.2	283902	77440	39539.6	36.983	2.386	6396.87	2346.63	1455.46	211161	72.773	243.372	0	
AMOCO FEDERAL 11 #006	3001526496	DELAWARE-BRUSHY CANYON	5.38	307701	96916.8	34317.6	46.8	1.8	5392.8	2449.2	992.4	228593	26.4	505.2	0	
AMOCO FEDERAL 11 #005	3001526527	DELAWARE-BRUSHY CANYON	6.03	297557	90601.8	35088.6	63.017	1.7835	4688.23	2993.9	1055.83	218632	49.938	619.469		
WILLIAMS ESTATE #001	3001527173	DELAWARE-BRUSHY CANYON	5.96	101919	34645.1	5772.75	33.325	0.215	1197.55	211.775	142.975	67289.6	40.85	228.975		
BRANTLEY #001	3001522677	MORROW	6.5	278468								166000	78	3400		
VILLA A COM #001	3001522886	MORROW	5.08	27040.2	8664.21	1173.13	553.382	5.6155	128.646	120.478	152.129	16623.9	39.819	147.024	0	
VILLA A COM #001	3001522886	MORROW	6.32	6803.65	2064.35	329.289	154.071	3.021	39.273	22.154	34.238	3939.38	56.392	209.456		
VILLA A COM #001	3001522886	MORROW	6.7	7360.18	1292.43	422.1	1059.27	13.065	56.28	37.185	47.235	4157.68	303.51	8.04		
BRANTLEY #001	3001522677	MORROW	6.5	278468								166000	78	3400		
HABANERO 17 FEDERAL COM #001H	3001536108	WOLFCAMP	6.5	108205	35110.8	4480.2	28.5		627.9			65927.2	146	0		300
SERRANO 29 FEDERAL #001H	3001537763	WOLFCAMP	6.9	102136.2	30415.1	5311.5	40.2		643.7			62812.7	183	0		350
SERRANO 29 FEDERAL #001H	3001537763	WOLFCAMP	6.5	100994.9	28702.1	5341.9	46.2		619.5			63450.1	268	0		350

Striker 1 SWD #1 Offset Water Wells Eddy County, NM NGL Water Solutions Permian, LLC

Projection: NAD 1983 State Plane NM East FIPS 3001
 Drawn by: SAH Date: 5/8/2017 Approved by: NLB

LONQUIST & CO. LLC

AUSTIN HOUSTON PETROLEUM ENGINEERS ENERGY ADVISORS WICHITA CALGARY

- Striker 1 SWD #1
- Water Well (NAD 1983)
- 1 mile Radius
- Section Boundary
- Township Boundary



June 29, 2017

Will George

Lonquist Field Services, LLC

3345 Bee Cave Road, Suite 201

Austin, TX 78746

RE: WATER SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 06/15/17 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)


Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Lonquist Field Services, LLC
3345 Bee Cave Road, Suite 201
Austin TX, 78746

Project: WATER SAMPLES
Project Number: STRIKER 1 SWD #1
Project Manager: Will George
Fax To: (512) 732-9816

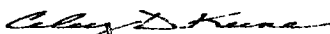
Reported:
29-Jun-17 16:54

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-01955	H701561-01	Water	14-Jun-17 14:00	15-Jun-17 08:25
C-00608	H701561-02	Water	14-Jun-17 14:00	15-Jun-17 08:25

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Lonquist Field Services, LLC
 3345 Bee Cave Road, Suite 201
 Austin TX, 78746

 Project: WATER SAMPLES
 Project Number: STRIKER 1 SWD #1
 Project Manager: Will George
 Fax To: (512) 732-9816

 Reported:
 29-Jun-17 16:54

SP-01955
H701561-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	342		5.00	mg/L	1	7060101	AC	16-Jun-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7060101	AC	16-Jun-17	310.1	
Chloride*	1620		4.00	mg/L	1	7061501	AC	16-Jun-17	4500-Cl-B	
Conductivity*	8090		1.00	uS/cm	1	7061606	AC	16-Jun-17	120.1	
pH*	6.98		0.100	pH Units	1	7061606	AC	16-Jun-17	150.1	
Resistivity	1.24			Ohms/m	1	7061606	AC	16-Jun-17	120.1	
Specific Gravity @ 60° F	1.008		0.000	[blank]	1	7061605	AC	16-Jun-17	SM 2710F	
Sulfate*	2140		500	mg/L	50	7061507	AC	15-Jun-17	375.4	
TDS*	6610		5.00	mg/L	1	7061508	AC	19-Jun-17	160.1	
Alkalinity, Total*	280		4.00	mg/L	1	7060101	AC	16-Jun-17	310.1	
Sulfide, total	0.0570		0.0100	mg/L	1	7061607	AC	16-Jun-17	376.2	

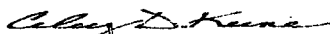
Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Barium*	<0.500		0.500	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	
Calcium*	671		1.00	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	
Iron*	<0.500		0.500	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	
Magnesium*	260		1.00	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	
Sodium*	1110		10.0	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Lonquist Field Services, LLC
 3345 Bee Cave Road, Suite 201
 Austin TX, 78746

 Project: WATER SAMPLES
 Project Number: STRIKER 1 SWD #1
 Project Manager: Will George
 Fax To: (512) 732-9816

 Reported:
 29-Jun-17 16:54

C-00608
H701561-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	288		5.00	mg/L	1	7060101	AC	16-Jun-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7060101	AC	16-Jun-17	310.1	
Chloride*	1300		4.00	mg/L	1	7061501	AC	16-Jun-17	4500-Cl-B	
Conductivity*	7380		1.00	uS/cm	1	7061606	AC	16-Jun-17	120.1	
pH*	7.18		0.100	pH Units	1	7061606	AC	16-Jun-17	150.1	
Resistivity	1.36			Ohms/m	1	7061606	AC	16-Jun-17	120.1	
Specific Gravity @ 60° F	1.007		0.000	[blank]	1	7061605	AC	16-Jun-17	SM 2710F	
Sulfate*	1970		500	mg/L	50	7061507	AC	15-Jun-17	375.4	
TDS*	5970		5.00	mg/L	1	7061508	AC	19-Jun-17	160.1	
Alkalinity, Total*	236		4.00	mg/L	1	7060101	AC	16-Jun-17	310.1	
Sulfide, total	0.0133		0.0100	mg/L	1	7061607	AC	16-Jun-17	376.2	

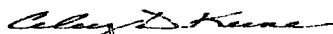
Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Barium*	<0.500		0.500	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	
Calcium*	646		1.00	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	
Iron*	9.15		0.500	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	
Magnesium*	270		1.00	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	
Sodium*	959		10.0	mg/L	10	B706136	JDA	20-Jun-17	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager

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 3345 Bee Cave Road, Suite 201
 Austin TX, 78746

 Project: WATER SAMPLES
 Project Number: STRIKER 1 SWD #1
 Project Manager: Will George
 Fax To: (512) 732-9816

 Reported:
 29-Jun-17 16:54

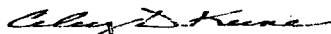
Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7060101 - General Prep - Wet Chem										
Blank (7060101-BLK1)										
Prepared & Analyzed: 01-Jun-17										
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (7060101-BS1)										
Prepared & Analyzed: 01-Jun-17										
Alkalinity, Carbonate	ND	1.00	mg/L				80-120			
Alkalinity, Bicarbonate	137	5.00	mg/L				80-120			
Alkalinity, Total	112	4.00	mg/L	100		112	80-120			
LCS Dup (7060101-BSD1)										
Prepared & Analyzed: 01-Jun-17										
Alkalinity, Carbonate	ND	1.00	mg/L				80-120		20	
Alkalinity, Bicarbonate	146	5.00	mg/L				80-120	6.36	20	
Alkalinity, Total	120	4.00	mg/L	100		120	80-120	6.90	20	
Batch 7061501 - General Prep - Wet Chem										
Blank (7061501-BLK1)										
Prepared & Analyzed: 15-Jun-17										
Chloride	ND	4.00	mg/L							
LCS (7061501-BS1)										
Prepared & Analyzed: 15-Jun-17										
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (7061501-BSD1)										
Prepared & Analyzed: 15-Jun-17										
Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	
Batch 7061507 - General Prep - Wet Chem										
Blank (7061507-BLK1)										
Prepared & Analyzed: 15-Jun-17										
Sulfate	ND	10.0	mg/L							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Lonquist Field Services, LLC
 3345 Bee Cave Road, Suite 201
 Austin TX, 78746

 Project: WATER SAMPLES
 Project Number: STRIKER 1 SWD #1
 Project Manager: Will George
 Fax To: (512) 732-9816

 Reported:
 29-Jun-17 16:54

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7061507 - General Prep - Wet Chem

LCS (7061507-BS1)				Prepared & Analyzed: 15-Jun-17						
Sulfate	23.6	10.0	mg/L	20.0		118	80-120			

LCS Dup (7061507-BSD1)				Prepared & Analyzed: 15-Jun-17						
Sulfate	22.7	10.0	mg/L	20.0		113	80-120	4.14	20	

Batch 7061508 - Filtration

Blank (7061508-BLK1)				Prepared: 15-Jun-17 Analyzed: 19-Jun-17						
TDS	ND	5.00	mg/L							

LCS (7061508-BS1)				Prepared: 15-Jun-17 Analyzed: 19-Jun-17						
TDS	220	5.00	mg/L	213		103	80-120			

Duplicate (7061508-DUP1)				Source: H701559-01		Prepared: 15-Jun-17 Analyzed: 19-Jun-17				
TDS	1500	5.00	mg/L		1550			3.55	20	

Batch 7061605 - General Prep - Wet Chem

Duplicate (7061605-DUP1)				Source: H701561-01		Prepared & Analyzed: 16-Jun-17				
Specific Gravity @ 60° F	1.010	0.000	[blank]		1.008			0.153	20	

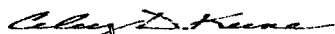
Batch 7061606 - General Prep - Wet Chem

LCS (7061606-BS1)				Prepared & Analyzed: 16-Jun-17						
Conductivity	476		uS/cm	500		95.2	80-120			
pH	7.08		pH Units	7.00		101	90-110			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Lonquist Field Services, LLC 3345 Bee Cave Road, Suite 201 Austin TX, 78746	Project: WATER SAMPLES Project Number: STRIKER 1 SWD #1 Project Manager: Will George Fax To: (512) 732-9816	Reported: 29-Jun-17 16:54
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Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 7061606 - General Prep - Wet Chem

Duplicate (7061606-DUP1)		Source: H701561-01		Prepared & Analyzed: 16-Jun-17						
Conductivity	8130	1.00	uS/cm		8090		0.493		20	
pH	7.00	0.100	pH Units		6.98		0.286		20	
Resistivity	1.23		Ohms/m		1.24		0.493		200	

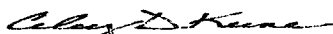
Batch 7061607 - General Prep - Wet Chem

Blank (7061607-BLK1)		Prepared & Analyzed: 16-Jun-17								
Sulfide, total	ND	0.0100	mg/L							
Duplicate (7061607-DUP1)		Source: H701561-01		Prepared & Analyzed: 16-Jun-17						
Sulfide, total	0.0460	0.0100	mg/L		0.0570		21.4		20	QR-05

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Lonquist Field Services, LLC
 3345 Bee Cave Road, Suite 201
 Austin TX, 78746

 Project: WATER SAMPLES
 Project Number: STRIKER 1 SWD #1
 Project Manager: Will George
 Fax To: (512) 732-9816

 Reported:
 29-Jun-17 16:54

Total Recoverable Metals by ICP (E200.7) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B706136 - Total Rec. 200.7/200.8/200.2
Blank (B706136-BLK1)

Prepared: 19-Jun-17 Analyzed: 20-Jun-17

Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							

LCS (B706136-BS1)

Prepared: 19-Jun-17 Analyzed: 20-Jun-17

Magnesium	20.8	0.100	mg/L	20.0		104	85-115			
Calcium	4.09	0.100	mg/L	4.00		102	85-115			
Sodium	6.97	1.00	mg/L	6.48		108	85-115			
Potassium	8.14	1.00	mg/L	8.00		102	85-115			
Barium	2.03	0.050	mg/L	2.00		101	85-115			
Iron	4.04	0.050	mg/L	4.00		101	85-115			

LCS Dup (B706136-BS1)

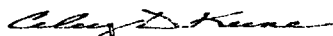
Prepared: 19-Jun-17 Analyzed: 20-Jun-17

Iron	4.03	0.050	mg/L	4.00		101	85-115	0.280	20	
Magnesium	20.5	0.100	mg/L	20.0		102	85-115	1.61	20	
Calcium	4.01	0.100	mg/L	4.00		100	85-115	2.00	20	
Sodium	6.79	1.00	mg/L	6.48		105	85-115	2.50	20	
Barium	2.02	0.050	mg/L	2.00		101	85-115	0.140	20	
Potassium	8.10	1.00	mg/L	8.00		101	85-115	0.481	20	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-05 The RPD exceeded historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

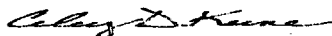
*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

 Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Page 10 of 12

Company Name: <u>Longest</u>		BILL TO		ANALYSIS REQUEST																																			
Project Manager: <u>Dusty Armstrong</u>		P.O. #:		<u>Scale Index</u> <u>Total Sulfide</u>																																			
Address:		Company:																																					
City: State: Zip:		Attn:																																					
Phone #: Fax #:		Address:																																					
Project #: Project Owner:		City:																																					
Project Name: <u>Striker / SWD #1</u>		State: Zip:																																					
Project Location:		Phone #:																																					
Sampler Name:		Fax #:																																					
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING																															
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE		ICE / COOL		OTHER :		DATE		TIME													
1 SP-01955		2 C-00608		2		✓		✓																6-14-17		2:00													
						</																																	

CARDINAL LABORATORIES
SCALE INDEX WATER ANALYSIS REPORT

Company : LONQUIST FIELD SERVICES
 Lease Name : STRIKER / SWD #1
 Well Number : SP-01955 (H701561-01)
 Location : NOT GIVEN

Date Sampled : 06/14/17
 Company Rep. : WILL GEORGE

ANALYSIS

1. pH	6.98	
2. Specific Gravity @ 60/60 F.	1.0080	
3. CaCO ₃ Saturation Index @ 80 F.	+0.913	'Calcium Carbonate Scale Possible'
@ 140 F.	+1.613	'Calcium Carbonate Scale Possible'

Dissolved Gasses

4. Hydrogen Sulfide	0.057	PPM
5. Carbon Dioxide	ND	PPM
6. Dissolved Oxygen	ND	PPM

Cations

		/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	671.00	/	20.1	=	33.38
8. Magnesium (Mg++)	260.00	/	12.2	=	21.31
9. Sodium (Na+)	1,110	/	23.0	=	45.92
10. Barium (Ba++)	0.000	/	68.7	=	0.00

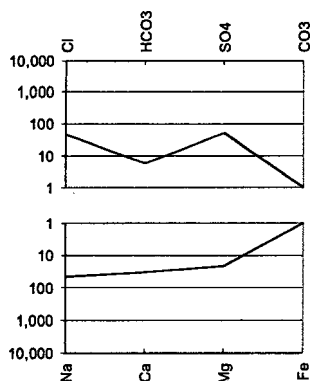
Anions

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO ₃ =)	0	/	30.0	=	0.00
13. Bicarbonate (HCO ₃ -)	342	/	61.1	=	5.60
14. Sulfate (SO ₄ =)	2,410	/	48.8	=	49.39
15. Chloride (Cl-)	1,620	/	35.5	=	45.63

Other

16. Total Iron (Fe)	0.000	/	18.2	=	0.00
17. Total Dissolved Solids	6,610				
18. Total Hardness As CaCO ₃	2,746.0				
19. Calcium Sulfate Solubility @ 90 F.	2,292				
20. Resistivity (Measured)	1.240	Ohm/Meters	@ 77	Degrees (F)	

Logarithmic Water Pattern



PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO ₃) ₂	81.04	X	5.60	=	454
CaSO ₄	68.07	X	27.79	=	1,891
CaCl ₂	55.50	X	0.00	=	0
Mg(HCO ₃) ₂	73.17	X	0.00	=	0
MgSO ₄	60.19	X	21.31	=	1,283
MgCl ₂	47.62	X	0.00	=	0
NaHCO ₃	84.00	X	0.00	=	0
NaSO ₄	71.03	X	0.29	=	20
NaCl	58.46	X	45.63	=	2,668

CARDINAL LABORATORIES **SCALE INDEX WATER ANALYSIS REPORT**

Company : LONQUIST FIELD SERVICES
 Lease Name : STRIKER / SWD #1
 Well Number : C-00608 (H701561-02)
 Location : NOT GIVEN

Date Sampled : 06/14/17
 Company Rep. : WILL GEORGE

ANALYSIS

1. pH	7.18	
2. Specific Gravity @ 60/60 F.	1.0070	
3. CaCO ₃ Saturation Index @ 80 F.	+0.822	'Calcium Carbonate Scale Possible'
@ 140 F.	+1.522	'Calcium Carbonate Scale Possible'

Dissolved Gasses

4. Hydrogen Sulfide	0.013	PPM
5. Carbon Dioxide	ND	PPM
6. Dissolved Oxygen	ND	PPM

Cations

		/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	646.00	/	20.1	=	32.14
8. Magnesium (Mg++)	270.00	/	12.2	=	22.13
9. Sodium (Na+)	959	/	23.0	=	27.43
10. Barium (Ba++)	0.000	/	68.7	=	0.00

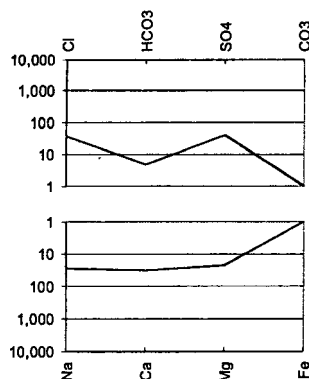
Anions

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO ₃ =)	0	/	30.0	=	0.00
13. Bicarbonate (HCO ₃ -)	288	/	61.1	=	4.71
14. Sulfate (SO ₄ =)	1,970	/	48.8	=	40.37
15. Chloride (Cl-)	1,300	/	35.5	=	36.62

Other

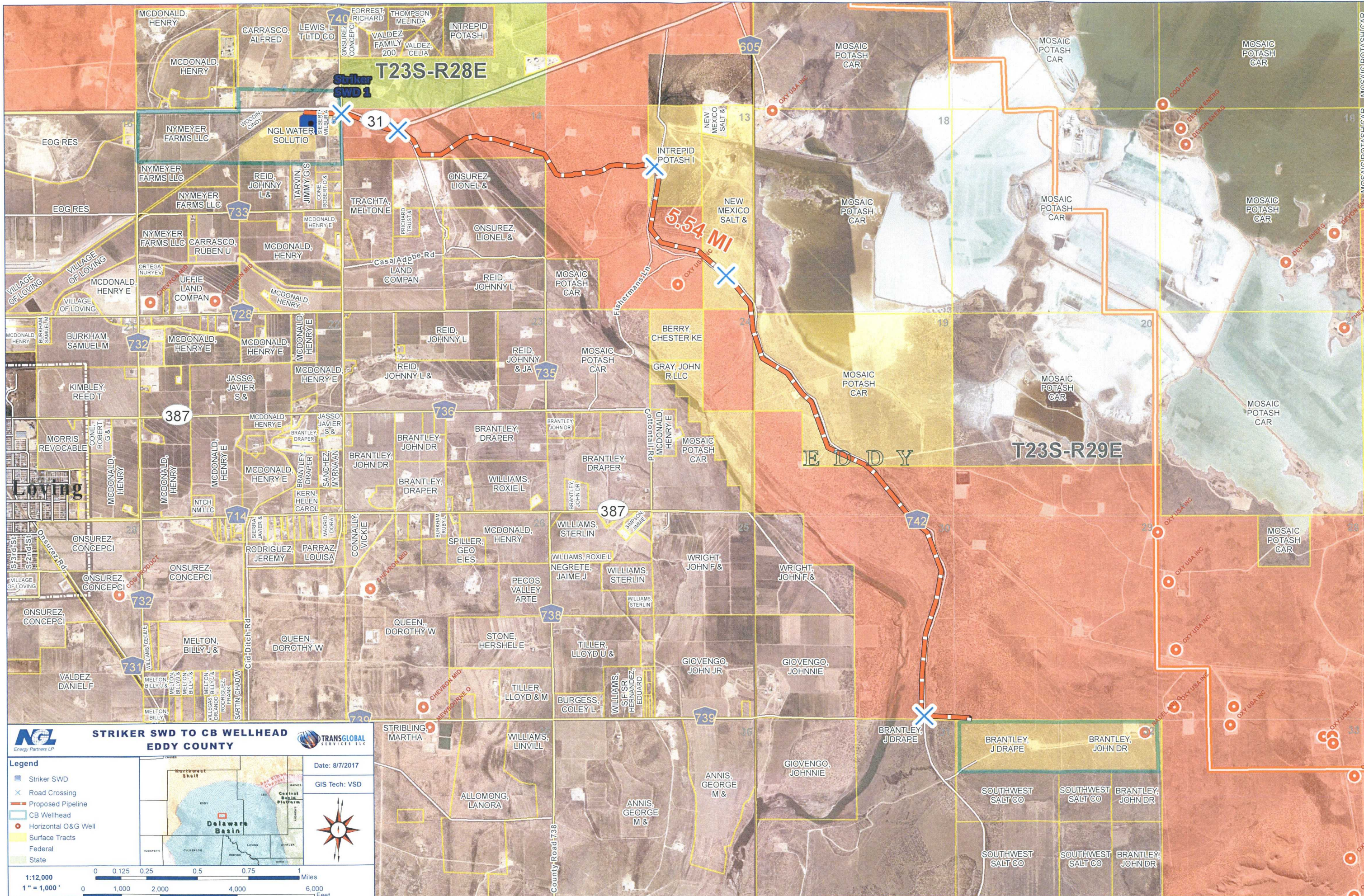
16. Total Iron (Fe)	9.150	/	18.2	=	0.50
17. Total Dissolved Solids	5,970				
18. Total Hardness As CaCO ₃	2,725.0				
19. Calcium Sulfate Solubility @ 90 F.	2,180				
20. Resistivity (Measured)	1.360	Ohm/Meters	@ 77	Degrees (F)	

Logarithmic Water Pattern



PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO ₃) ₂	81.04	X	4.71	=	382
CaSO ₄	68.07	X	27.43	=	1,867
CaCl ₂	55.50	X	0.00	=	0
Mg(HCO ₃) ₂	73.17	X	0.00	=	0
MgSO ₄	60.19	X	12.94	=	779
MgCl ₂	47.62	X	9.19	=	438
NaHCO ₃	84.00	X	0.00	=	0
NaSO ₄	71.03	X	0.00	=	0
NaCl	58.46	X	27.43	=	1,604



STRIKER SWD TO CB WELLHEAD EDDY COUNTY

Legend

- Striker SWD
- Road Crossing
- Proposed Pipeline
- CB Wellhead
- Horizontal O&G Well
- Surface Tracts
- Federal State

Date: 8/7/2017
GIS Tech: VSD

Scale: 1:12,000
1" = 1,000'

0 0.125 0.25 0.5 0.75 1 Miles
0 1,000 2,000 4,000 6,000 Feet

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Danny Fletcher, being first duly
sworn, on oath says:

That he is the Publisher 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:

August 9 2017

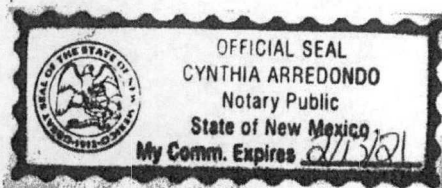
That the cost of publication is **\$70.15**
and that payment thereof has been
made and will be assessed as court
costs.

Subscribed and sworn to before me
this 10 day of August, 2017

Cynthia Arredondo

My commission Expires 2/13/21

Notary Public



August 9, 2017

Legal Notice

NGL Water Solutions Permian, LLC, 1509 W. Wall Street, Suite 306, Midland, Texas 79701 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 Striker 1 SWD No. 1. The proposed well will be located 459' FNL & 1,469' FEL in Section 15, Township 23S, Range 28E in Eddy 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 13,750 feet to a maximum depth of 15,100 feet. The maximum surface injection pressure will not exceed 2,750 psi with a maximum rate of 30,500 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) 600-1774.

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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: Black Mountain Operating, LLC 500 Main Street Suite 1200 Fort Worth, Texas 76102 9590 9402 2913 7094 7235 53 2. Article Number (Transfer from service label) 7014 1620 0000 3203 8878 PS Form 3811, July 2015 PSN 7530-02-000-9053	COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> B. Received by (Printed Name) C. Date of Delivery 8/14/17 D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No 3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery Domestic Return Receipt	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: OXY USA, Inc. P.O. Box 4294 Houston, Texas 77210 9590 9402 2818 7069 5924 01 2. Article Number (Transfer from service label) 7014 1620 0000 3203 8892 PS Form 3811, July 2015 PSN 7530-02-000-9053	COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> B. Received by (Printed Name) C. Date of Delivery 8.15.17 D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No 3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery Domestic Return Receipt
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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: BTA Oil Producers, LLC 104 South Pecos Midland, Texas 79701 9590 9403 0494 5173 8869 72 2. Article Number (Transfer from service label) 7014 1620 0000 3203 8847 PS Form 3811, April 2015 PSN 7530-02-000-9053	COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> B. Received by (Printed Name) C. Date of Delivery 8/14/17 D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No 3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery Domestic Return Receipt	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: Oil Conservation Division District II 811 South First Street Artesia, New Mexico 88210 9590 9403 0494 5173 8870 30 2. Article Number (Transfer from service label) 7014 1620 0000 3203 8793 PS Form 3811, April 2015 PSN 7530-02-000-9053	COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> B. Received by (Printed Name) C. Date of Delivery 8/14/17 D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No 3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery Domestic Return Receipt
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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: Oil Conservation Division District IV 1220 South St., Francis Drive Santa Fe, New Mexico 87505 9590 9403 0494 5173 8870 23 2. Article Number (Transfer from service label) 7014 1620 0000 3203 8809 PS Form 3811, April 2015 PSN 7530-02-000-9053	COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> B. Received by (Printed Name) C. Date of Delivery 8/14/17 D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No 3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery Domestic Return Receipt	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: Rockcliff Operating New Mexico, LLC 1301 McKinney Street Suite 1300 Houston, Texas 77010 9590 9402 2818 7069 5923 95 2. Article Number (Transfer from service label) 7014 1620 0000 3203 8865 PS Form 3811, July 2015 PSN 7530-02-000-9053	COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> B. Received by (Printed Name) C. Date of Delivery 8/14/17 D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No 3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery Domestic Return Receipt
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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: Colgate Operating, LLC 306 West Wall Street Suite 500 Midland, Texas 79701 9590 9402 2818 7069 5921 28 2. Article Number (Transfer from service label) 7014 1620 0000 3203 9103 PS Form 3811, July 2015 PSN 7530-02-000-9053	COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> B. Received by (Printed Name) C. Date of Delivery 8/16/17 D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No 3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery Domestic Return Receipt	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: Chevron USA Inc. P. O. Box 2100 Houston, Texas 77252 9590 9403 0494 5173 8869 65 2. Article Number (Transfer from service label) 7014 1620 0000 3203 8854 PS Form 3811, April 2015 PSN 7530-02-000-9053	COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> B. Received by (Printed Name) C. Date of Delivery 8-16-17 D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No 3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery Domestic Return Receipt
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Striker I SWD#1

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:

Spindletop Oil & Gas Company
P. O. Box 7410
Dallas, Texas 75203



959

2. Article Number

7014

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?
If YES, enter delivery address below:

- ☐ Yes
☐ No

08/22/17

753745089-1N
NIXIE
RETURN TO SENDER
UNABLE TO FORWARD
UNABLE TO FORWARD
RETURN TO SENDER

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

- ☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Mail Restricted Delivery

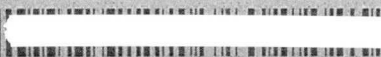
Domestic Return Receipt

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:

Marathon Oil Permian, LLC
5555 San Felipe Street
Houston, Texas 77056



9590 9402 2818 7069 5921 42

2. Article Number (Transfer from service label)

7014 1820 0000 3203 9974

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?
If YES, enter delivery address below:

- ☐ Yes
☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Mail Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

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:

R.C. Bennett Company
P. O. Box 264
Midland, Texas 79702



9590 9402 2818 7069 5923 88

2. Article Number (Transfer from service label)

7014 1820 0000 3203 8861

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?
If YES, enter delivery address below:

- ☐ Yes
☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Mail Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Tuesday, August 15, 2017 2:26 PM
To: 'Chris Weyand'
Subject: NGL Water Solutions Permian, LLC Striker 1 SWD Well No. 1 administrative application

Chris:

The OCD received the NGL Water Solutions Permian, LLC Striker 1 SWD Well No. 1 on Tuesday August 15, 2017.

The OCD needs the following information

- Proof of mailing for the affected parties.
- Affidavit of publication

As a result, your application will be suspended. If the required information is not received within 10-days, your application will be cancelled.

Thanks
Mike

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Thursday, August 24, 2017 2:55 PM
To: 'Chris Weyand'
Cc: Goetze, Phillip, EMNRD; Lowe, Leonard, EMNRD; Jones, William V, EMNRD
Subject: Protested Application: NGL Water Solutions Permian, LLC Striker 11 SWD No. 1 Well Eddy Co.

Mr. Weyand:

Chevron USA Inc. is protesting this application for approval of a salt water disposal well into Silurian and Devonian formations. Chevron USA Inc. has been identified as an affected person for the proposed salt-water disposal well. Therefore, you are being notified that if NGL Water Solutions Permian, LLC wishes for this application to be considered, it must either go to hearing or may be reviewed administratively if the protest is withdrawn as a result of a negotiated resolution with this party. The application will be retained by OCD, but suspended from further administrative review. Please contact OCD once you have made a decision regarding the application within the next 30 days. If the protest remains after 30 days, OCD will initiate the process for the application to be reviewed at hearing. Please contact me with any questions regarding this matter. Mike

Contact for Chevron USA Inc
Michael Feldewert
Attorney
Holland and Hart LLP
110 North Guadalupe Suite 1
Santa Fe, NM 87501
Phone: 505.988.4421
E-mail: mfeldewert@hollandhart.com

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

RECEIVED OCD

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY 2017 AUG 15 A 9:29

August 9, 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

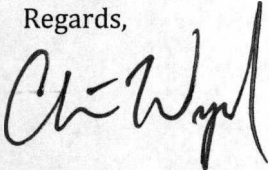
RE: STRIKER 1 SWD NO. 1 AUTHORIZATION TO INJECT

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for NGL Water Solutions Permian, LLC's Striker 1 SWD No. 1. 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



FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V16.2]

DATE RECORD: First Rec: 08/15/18 Admin Complete: 09/26/18 * Amended 08/24/17 or Suspended: Protest Add. Request/Reply: _____
 ORDER TYPE: WFX / PMX / SWD Number: 1724 Order Date: 8/23/18 Legacy Permits/Orders: Protest

Well No. 1 Well Name(s): Striker 1 SWD withdrawn

API: 30-0 15-44406 Spud Date: TBD New or Old (EPA): New (UIC Class II Primacy 03/07/1982)

Footages: * New SL: 1015' FNL / 1395' FEL Lot - or Unit B Sec 15 Tsp 23S Rge 28E County Eddy

General Location: ~2 mi northeast of Loving Pool: SWD; Devonian-Silurian Pool No.: 97869

BLM 100K Map: Carlsbad Operator: NGL Water Solutions Permian LLC OGRID: 872338 Contact: Steve Patte

COMPLIANCE RULE 5.9: Total Wells: 5 Inactive: 0 Fincl Assur: OK Compl. Order? No IS 5.9 OK? Yes Date: 8/23/18

WELL FILE REVIEWED ☒ Current Status: New C-102 for relocation of well; remaining portion unchanged

WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: _____

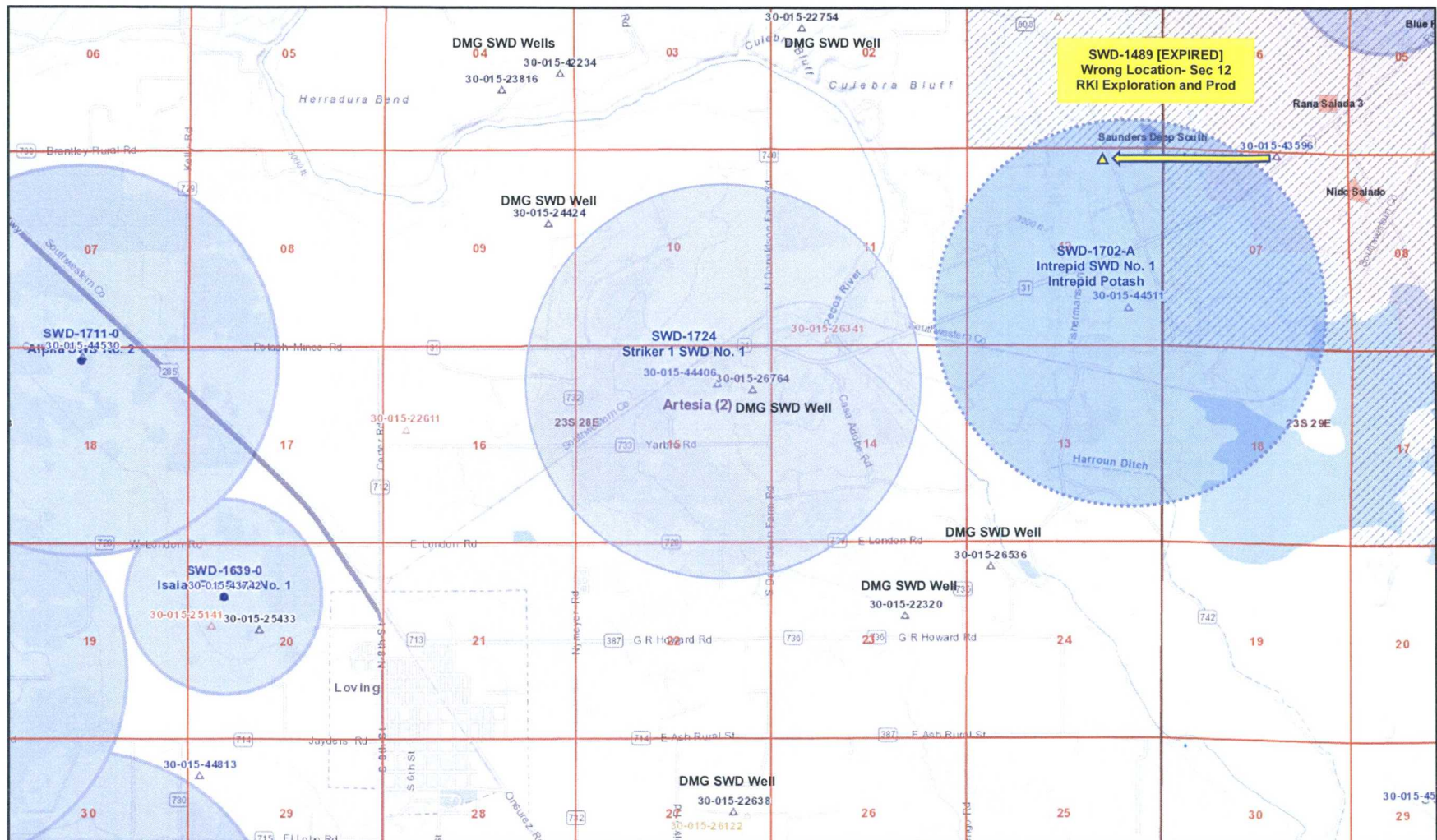
Planned Rehab Work to Well: * New SL still within Unit B; re-noticed was required for new SL

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface					
Planned ___ or Existing ___ Interm/Prod			[unchanged from original application]		
Planned ___ or Existing ___ Interm/Prod					
Planned ___ or Existing ___ Prod/Liner					
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH / PERF			(Unchanged) 13750 to 15100	Inj Length	

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:	
Adjacent Unit: Litho. Struc. Por.		Mississippian	12817	Drilled TD <u>15100</u>	PBTD <u>-</u>
Confining Unit: <u>Litho</u> Struc. Por.	<u>±0</u> <u>Carlsbad</u>	Woodford Shale	13664	NEW TD <u>-</u>	NEW PBTD <u>-</u>
Proposed Inj Interval TOP:	<u>13750</u>	Devonian-Silurian	<u>13810</u>	NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>	
Proposed Inj Interval BOTTOM:	<u>15100</u>	Montoya	<u>14973</u>	Tubing Size <u>5x5.5</u> in. Inter Coated? <u>Yes</u>	
Confining Unit: Litho. Struc. Por.	<u>+100 into top</u>	Montoya	<u>14973</u>	Proposed Packer Depth <u>13700</u> ft	
Adjacent Unit: Litho. Struc. Por.		Simpson (?)		Min. Packer Depth _____ (100-ft limit)	
AOR: Hydrologic and Geologic Information				Proposed Max. Surface Press. <u>2750</u> psi	
POTASH: R-111-P <u>NA</u> Noticed? <u>NA</u> BLM Sec Ord <u>16</u> WIPP <input checked="" type="checkbox"/> Noticed? <u>NA</u> Salt/Salado T: <u>1300</u> B: <u>2370</u> NW: <u>Cliff House fm</u>				Admin. Inj. Press. <u>2750</u> (0.2 psi per ft)	
FRESH WATER: Aquifer <u>Alluvial / Rustler fm</u> Max Depth <u>< 300'</u> HYDRO AFFIRM STATEMENT By Qualified Person <input checked="" type="checkbox"/>					
NMOSE Basin: <u>Carlsbad</u> CAPITAN REEF: thru _____ adj _____ NA <input checked="" type="checkbox"/> No. GW Wells in 1-Mile Radius? <u>32</u> FW Analysis? <u>Yes</u>					
Disposal Fluid: Formation Source(s) <u>BS/WC/Penn/Devonian</u> Analysis? <u>Yes</u> On Lease <input type="checkbox"/> Operator Only <input type="checkbox"/> or Commercial <input checked="" type="checkbox"/>					
Disposal Interval: Inject Rate (Avg/Max BWPD): <u>25000/30000</u> Protectable Waters? <u>No</u> Source: <u>Historical</u> System: <u>Closed</u> or <u>Open</u>					
HC Potential: Producing Interval? <u>No</u> Formerly Producing? <u>No</u> Method: Logs/DST/P&A/Other <u>Mudlog</u> 2-Mi Radius Pool Map <input type="checkbox"/>					
AOR Wells: 1/2-M Radius Map and Well List? <u>Yes</u> No. Penetrating Wells: <u>0</u> [AOR Horizontals: <u>0</u> AOR SWDs: <u>0</u>]					
Penetrating Wells: No. Active Wells <u>0</u> Num Repairs? _____ on which well(s)? _____ Diagrams? _____					
Penetrating Wells: No. P&A Wells <u>0</u> Num Repairs? _____ on which well(s)? _____ Diagrams? _____					
NOTICE: Newspaper Date <u>Aug 8, 2017</u> Mineral Owner <u>NGL / fee</u> Surface Owner <u>NGL / fee</u> N. Date <u>NA</u>					
RULE 26.7(A): Identified Tracts? <u>Yes</u> Affected Persons: <u>Renoticed Llano / Cherron / Rubicon</u> N. Date <u>07/26/18</u>					

Order Conditions: Issues: Cement requirements; Strat. control;
 Additional COAs: CBL for liner; Cement clause; mudlog with picks

Pending Application for High-Volume Devonian Disposal Well
C-108 Application for Striker 1 SWD No. 1 – NGL Water Solution Permian – 08/22/2018



Striker 1 SWD No. 1; NGL Water Solutions Permian; SWD-1724

API 30-015-44406; Application No. pMAM172275233

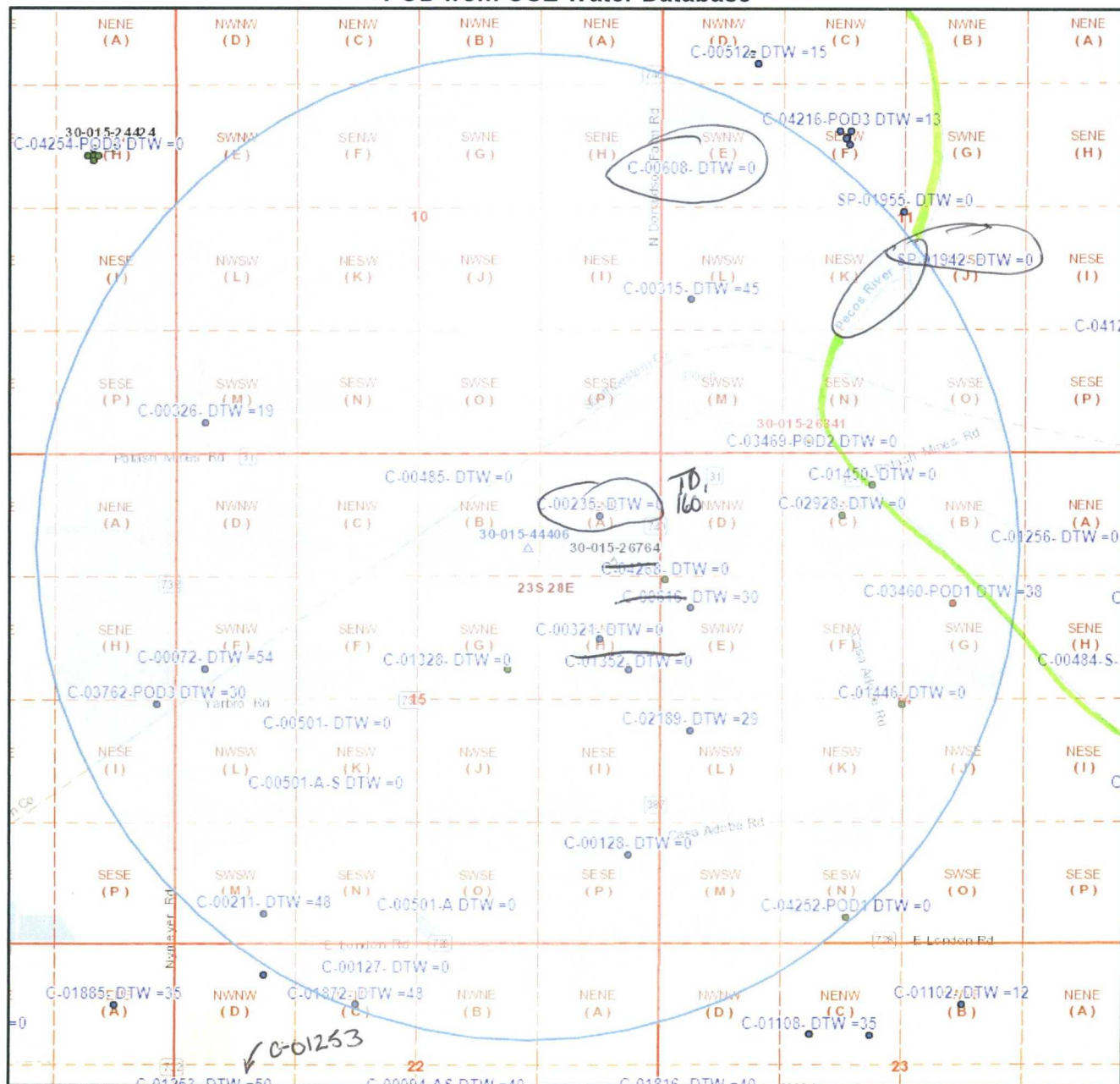
Approved interval: 13,750' to 15,100'

Protested by Chevron; protest retracted 07/18/2018.

RBDM Suspns: 4.20.2018; processing application with current design; Case filed for application to increase tubing size.

Closest Devonian Well with Large-Volume Potential: Intrepid SWD No. 1 (30-015-44511) not yet drilled; approved current tubing: 5-in tapering to 5-in in liner.

POD from OSE Water Database



Striker 1 SWD No. 1; NGL Water Solutions Permian; SWD-1724
API 30-015-44406; Application No. pMAM172275233



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and
no longer serves this file,
C=the file is closed)

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

(NAD83 UTM in meters)

(acre ft per annum)					C=the file is closed)		(quarters are smallest to largest)						(NAD83 UTM in meters)						
WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	64	16	4	Sec	Tws	Rng	X	Y	Distance
C 00501 A	CUB	IRR		443.64	HENRY E MCDONALD	ED	C 00501 A			Shallow	3	3	4	15	23S	28E	587179	3573958*	282
C 00501 B	CUB	IRR		194.49	UFFIE LAND CO	ED	C 00501 A			Shallow	3	3	4	15	23S	28E	587179	3573958*	282
C 00501	CUB	IRR		93.51	EQUITABLE LIFE ASSURANCE SOCIETY	ED	C 00501 A-S			Shallow	3	2	3	15	23S	28E	586772	3574359*	288
						ED	C 00501 AS			Shallow	3	2	3	15	23S	28E	586766	3574353	288
C 00501 A	CUB	IRR		443.64	HENRY E MCDONALD	ED	C 00501 AS			Shallow	3	2	3	15	23S	28E	586766	3574353	288
C 00501 D	CUB	IRR		296.46	LIONEL ONSUREZ	ED	C 00501 AS			Shallow	3	2	3	15	23S	28E	586766	3574353	288
C 00127	CUB	IRR		0	C.E. HICKS	ED	C 00127				2	2	1	22	23S	28E	586977	3573748*	405
C 00211	C	DOM		3	DAVID A. CARPENTER	ED	C 00211			Shallow	4	3	3	15	23S	28E	586570	3573949*	452
C 00501	CUB	IRR		93.51	EQUITABLE LIFE ASSURANCE SOCIETY	ED	C 00501				1	2	3	15	23S	28E	586772	3574559*	453
C 00501 C	CUB	IRR		2.67	CARRASCO CANDELARIO JR	ED	C 00501				1	2	3	15	23S	28E	586772	3574559*	453
C 00501 CA	CUB	IRR		111	RUBEN U CARRASCO	ED	C 00501				1	2	3	15	23S	28E	586772	3574559*	453
C 01872	C	DOL		3	WESTERN COMMERCE BANK	ED	C 01872			Shallow	2	1		22	23S	28E	586878	3573649*	513
C 01336	C	DOM		3	JAMES NYMEYER	ED	C 01336			Shallow	2	1	1	22	23S	28E	586572	3573744*	573
C 01328	CUB	IRR		0	URQUIDEZ VICENTE L	ED	C 01328				3	3	2	15	23S	28E	587173	3574769*	647
C 02810	C	DOM		3	JOHN REID	ED	C 02810				4	3	2	15	23S	28E	587373	3574769*	733
C 02926	C	STK		3	JOHNNY L REID	ED	C 02926				4	3	2	15	23S	28E	587373	3574769*	733
C 00128	C	DOL		3	YLARIO URQUIDEZ	ED	C 00128			Shallow	2	4	4	15	23S	28E	587783	3574162*	809
C 00094 A	CUB	CLS		0	DOROTHY W. QUEEN	ED	C 00094 AS		C	Shallow	1	3	2	22	23S	28E	587183	3573346*	833
C 00072	CUB	IRR		552	J L NYMEYER	ED	C 00072			Shallow	3	3	1	15	23S	28E	586364	3574760*	860
C 03762	CUB	MON		0	SOUTHWEST ENGINEERING INC	ED	C 03762 POD3			Shallow	4	2	2	16	23S	28E	586203	3574642	912
C 00321	C	DOM		0	W.J. BAILEY	ED	C 00321				4	2		15	23S	28E	587679	3574874*	1008
C 02503	C	DOM		3	JIMMY G TARVIN SR	ED	C 02503			Shallow	4	2		15	23S	28E	587679	3574874*	1008
C 01253	CUB	IRR		277.644	NEW MEXICO INTERSTATE STREAM	ED	C 01253			Shallow	1	3	1	22	23S	28E	586375	3573338*	1011
C 00269	C	IRR		3	JOHNNY GIOVENGO JR.	ED	C 00269			Shallow	4	4	2	15	23S	28E	587778	3574773*	1015
C 01352	C	DOM		3	D H MAGBY	ED	C 00269			Shallow	4	4	2	15	23S	28E	587778	3574773*	1015

DTW 50' / TO 179' / 122'-179' 56/60mg

— DTW 50' / TD 179' / 122'-179'
56/600

				ED	<u>C 01352</u>		4 4 2 15 23S 28E	587778	3574773*	1015
<u>C 01364</u>	C	DOM	3 DANIEL H MAGBY	ED	<u>C 00269</u>		Shallow 4 4 2 15 23S 28E	587778	3574773*	1015
<u>C 01487</u>	CUB	IRR	226.8 JAVIER S.& BRETHA A. JASSO	ED	<u>C 01487</u>		Shallow 3 4 1 22 23S 28E	586779	3573142*	1029
<u>C 02913</u>	C	DOL	3 JAVIER S JASSO	ED	<u>C 02913</u>		3 4 1 22 23S 28E	586779	3573142*	1029
<u>C 01885</u>	C	DOM	3 FRANK LONDON	ED	<u>C 01885</u>		Shallow 2 2 21 23S 28E	586070	3573640*	1039
C 02189	C	PRO	0 RD OPERATING COMPANY	ED	<u>C 02189</u>		Shallow 1 1 3 14 23S 28E	587985	3574572*	1094
C 00048	CUB	CLS	0 JACKIE REID	ED	<u>C 00094</u>	C	Shallow 3 4 2 22 23S 28E	587588	3573151*	1175
C 00094 A	CUB	CLS	0 DOROTHY W. QUEEN	ED	<u>C 00094</u>	C	Shallow 3 4 2 22 23S 28E	587588	3573151*	1175
				ED	<u>C 00094 A</u>	C	Shallow 3 4 2 22 23S 28E	587588	3573151*	1175
C 00154	CUB	CLS	0 JOHNNY L. REID	ED	<u>C 00094</u>		Shallow 3 4 2 22 23S 28E	587588	3573151*	1175
C 00485	CUB	IRR	0 G.W. CRISP	ED	<u>C 00485</u>		1 1 2 15 23S 28E	587170	3575375*	1237
<u>C 02847</u>	CUB	COM	40 DRAPER BRANTLEY JR.	ED	<u>C 02847</u>		2 1 4 22 23S 28E	587386	3572941*	1280
<u>C 02849</u>	CUB	COM	40 HENRY MCDONALD	ED	<u>C 02849</u>		2 1 4 22 23S 28E	587386	3572941*	1280
<u>C 01816</u>	C	DOL	3 A R DONALDSON	ED	<u>C 01816</u>		Shallow 1 3 1 23 23S 28E	587992	3573355*	1293
C 04268	C	DOM	0 JOSE P VALENCIA	ED	<u>C 04268</u>		1 3 1 14 23S 28E	587894	3575069	1298
C 00616	CUB	IRR	0 LEE & WELMA VOIGT	ED	<u>C 00616</u>		Shallow 1 3 1 14 23S 28E	587982	3574978*	1302
C 02796	CUB	MON	0 IMC	ED	<u>C 02796</u>		2 3 22 23S 28E	586882	3572838*	1318
<u>C 00235</u>	C	STK	3 LEE S. WILLIAMS	ED	<u>C 00235</u>		Shallow 2 2 15 23S 28E	587676	3575280*	1327
C 01961	C	DOL	0 DRAPER BRANTLEY JR	ED	<u>C 01961</u>		1 4 22 23S 28E	587287	3572842*	1347
<u>C 00024</u>	CUB	IRR	246.959 HENRY E MCDONALD	ED	<u>C 00024 S</u>		1 3 22 23S 28E	586478	3572834*	1409
C 00048	CUB	CLS	0 JOHNNY L. REID	ED	<u>C 00048</u>	C	Shallow 3 3 1 23 23S 28E	587997	3573160	1425
<u>C 00048 1</u>	CUB	IRR	124.589 JACKIE REID	ED	<u>C 00048</u>		Shallow 3 3 1 23 23S 28E	587997	3573160	1425
<u>C 00048 2</u>	CUB	STO	0.739 JOHNNY L REID	ED	<u>C 00048</u>		Shallow 3 3 1 23 23S 28E	587997	3573160	1425
C 00048 A	CUB	CLS	0 WILLIAM & MARIA T STENNIS REVOCABLE TRUST	ED	<u>C 00048</u>	C	Shallow 3 3 1 23 23S 28E	587997	3573160	1425
C 00154	CUB	CLS	0 JOHNNY L. REID	ED	<u>C 00048</u>		Shallow 3 3 1 23 23S 28E	587997	3573160	1425
<u>C 00453</u>	C	DOM	3 MAXIMIANO JASSO	ED	<u>C 00453</u>		2 2 4 22 23S 28E	587790	3572945*	1457
C 00048 A	CUB	CLS	0 WILLIAM & MARIA T STENNIS REVOCABLE TRUST	ED	<u>C 00154 POD2</u>	C	3 2 1 23 23S 28E	588395	3573566*	1537
C 00154	CUB	CLS	0 JOHNNY L. REID	ED	<u>C 00154 POD2</u>		3 2 1 23 23S 28E	588395	3573566*	1537
<u>C 01108</u>	C	STK	3 CLARENCE REID	ED	<u>C 01108</u>		Shallow 3 2 1 23 23S 28E	588395	3573566*	1537
C 00585	CUB	IRR	0 FRANK L. LONDON	ED	<u>C 00585</u>		3 1 2 21 23S 28E	585566	3573535*	1537
<u>C 00326</u>	CUB	IRR	221.45 HENRY E MCDONALD	ED	<u>C 00326</u>		Shallow 3 3 3 10 23S 28E	586358	3575572*	1546
C 04252	CUB	MON	0 CHEVRON NORTH AM EXPL & PROD	ED	<u>C 04252 POD1</u>		4 4 3 14 23S 28E	588513	3573957	1551

8/23/2018

nmwrrs.ose.state.nm.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"podByLocOwner"%2C%0A"PodNbrDiv"%3A"true"%2C%0A"PodBasin"%3A"C"%2C%0A"PodNbr"%3A""%2C%...

Record Count: 57 - 21 (inactive) = 36 Active POD

POD Search:

POD Basin: Carlsbad

UTMNA83 Radius Search (in meters):

Easting (X): 586974

Northing (Y): 3574153

Radius: 1609

Sorted by: Distance

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/23/18 11:15 AM

ACTIVE & INACTIVE POINTS OF DIVERSION

Goetze, Phillip, EMNRD

From: Chris Weyand <chris@lonquist.com>
Sent: Thursday, July 26, 2018 11:06 AM
To: Goetze, Phillip, EMNRD
Cc: Doug White; Neel Duncan
Subject: RE: Striker 1 SWD #1 Location Change - API No. 30-015-44406
Attachments: Striker 1 SWD #1_Loc Change_C-103_2018-07-10.pdf; STRIKER 1 SWD 1 Revised C-102_signed.pdf; Striker_1_SWD_No_1_Half_Mile_AOR_Map_v2.pdf; Striker_1_SWD_No_1_Half_Mi_AO_Offset_Lease_Map.pdf; 1467 - Striker 1 SWD #1.FedEx sent Receipts.072618.pdf

Hi Phillip,

To follow up on the location change submittal for the Striker 1 SWD #1 (C-103 & C-102 attached), attached please find the following:

- ½-mile AOR map (there are no wells penetrating the Devonian)
- ½-mile Lease Map for notification
- Proof of notice to 2 new parties (Llano & Rubicon) and the protesting party (Chevron)

Though the proposed location has changed, remaining portions of the C-108 are unchanged.

A 1-mile AOR for future expansion of injection rates is in the works, but for now, NGL would like to proceed with permitting with the standard ½-mile AOR.

Thanks,

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

From: Chris Weyand
Sent: Tuesday, July 10, 2018 3:56 PM
To: Podany, Raymond, EMNRD (Raymond.Podany@state.nm.us)
Cc: 'Dickerson, Kevin'; Doug White; McEniry, Kerry; Joshua Patterson (External); Neel Duncan; Phillip.Goetze@state.nm.us
Subject: Striker 1 SWD #1 Location Change - API No. 30-015-44406

Hi Raymond,

Attached is the C-103 and updated C-102 for a proposed location change for the Striker 1 SWD #1 in Eddy County. Please let me know if you have any questions.

Updated AORs will be provided to the UIC as soon as they are complete.

Thanks,

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

HOUSTON | CALGARY
AUSTIN | WICHITA | DENVER

Chris Weyand • Staff Engineer • Lonquist & Co., LLC • 12912 Hill Country Blvd., Suite F-200 • Austin, Texas, USA 78738

Direct: 512-600-1764 • Cell: 210-846-2673 • Fax: 512-732-9816 • chris@lonquist.com • www.lonquist.com

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Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

WELL API NO.
30-015-44406

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
STRIKER 1 SWD

8. Well Number 1

9. OGRID Number
372338

10. Pool name or Wildcat
SWD; DEVONIAN-SILURIAN

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD

2. Name of Operator
NGL WATER SOLUTIONS PERMIAN, LLC

3. Address of Operator
3773 Cherry Creek North Drive // Denver, CO 80209

4. Well Location

Unit Letter B : 1015 feet from the NORTH line and 1395 feet from the EAST line
Section 15 Township 23S Range 28E NMPM County EDDY

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
2,994.32' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

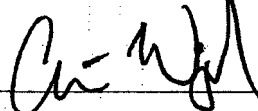
- The operator is proposing to move the location approximately 560' south of the current location to better accommodate O&G operations of offset operators. The revised location remains located in Unit B of Sec. 15-23S-28E.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE



TITLE Consulting Engineer

DATE 07/10/2018

Type or print name Chris Weyand

E-mail address: chris@lonquist.com

PHONE: (512) 600-1764

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-44406
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other SWD <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator NGL WATER SOLUTIONS PERMIAN, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 3773 Cherry Creek North Drive // Denver, CO 80209		7. Lease Name or Unit Agreement Name STRIKER 1 SWD
4. Well Location Unit Letter <u>B</u> : <u>1015</u> feet from the <u>NORTH</u> line and <u>1395</u> feet from the <u>EAST</u> line Section <u>15</u> Township <u>23S</u> Range <u>28E</u> NMPM County <u>EDDY</u>		8. Well Number <u>1</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2,994.32' GL		9. OGRID Number 372338
		10. Pool name or Wildcat SWD; DEVONIAN-SILURIAN

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

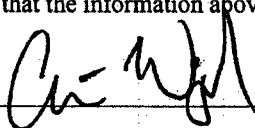
- The operator is proposing to move the location approximately 560' south of the current location to better accommodate O&G operations of offset operators. The revised location remains located in Unit B of Sec. 15-23S-28E.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE



TITLE

Consulting Engineer

DATE

07/10/2018

Type or print name Chris Weyand

E-mail address: chris@lonquist.com

PHONE: (512) 600-1764

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

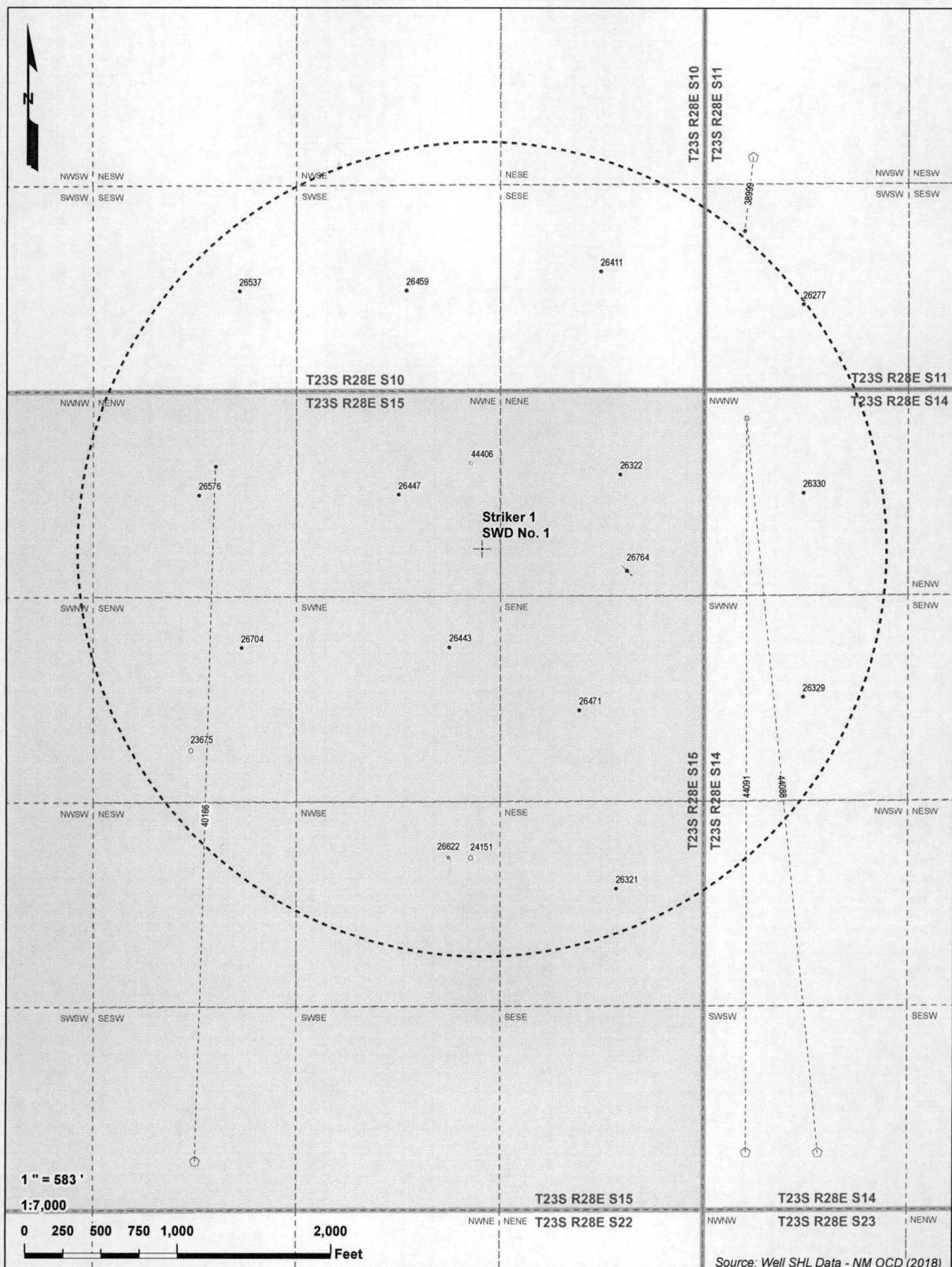
¹ API Number 30-015-44406		² Pool Code 96101	³ Pool Name SWD; Silurian-Devonian
⁴ Property Code	⁴ Property Name Striker 1 SWD		⁴ Well Number #1
⁷ OGRID No. 372338	⁸ Operator Name NGL WATER SOLUTIONS PERMIAN, LLC		⁹ Elevation 2994.32

" Surface Location									
UL or lot no. B	Section 15	Township 23 S	Range 28 E	Lot Ida	Feet from the 1015	North/South line NORTH	Feet from the 1395	East/West line EAST	County EDDY

" Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
¹³ Dedicated Acres		¹⁴ Joint or Infill		¹⁵ Consolidation Code		¹⁶ 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.

<p>GEODETIC DATA NAD 83 GRID - NM EAST STRIKER 1 SWD 1 Y= 476590.31 N X= 622330.25 E LAT= 32.309947 N LONG= -104.071171 W</p> <p>CORNER DATA NAD 83 GRID - NM EAST A - Y= 477558.28, X= 618388.01 B - Y= 477623.24, X= 623724.43 C - Y= 472325.87, X= 623729.21 D - Y= 472241.13, X= 618414.91</p>	<p>" 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 this division.</p> <p><i>Christopher Weyand</i> 7/10/2013 Signature Date</p> <p>Christopher Weyand Printed Name</p> <p>chris@lonquist.com E-mail Address</p>
	<p>"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.</p> <p>18 June 2013 Date of Survey</p> <p><i>E. HUDSON</i> Signature and Seal of Professional Surveyor</p> <p>20559 Certificate Number</p>
	<p>NEW MEXICO OFFICE OF THE STATE ENGINEER PROFESSIONAL SURVEYOR 20559</p>
	<p>20559 Certificate Number</p>



Striker 1 SWD No. 1
1/2-Mile Area of Review
 NGL Water Solutions Permian, LLC
 Eddy Co., NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)
 Drawn by: ELR Date: 6/21/2018 Approved by: NLB

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

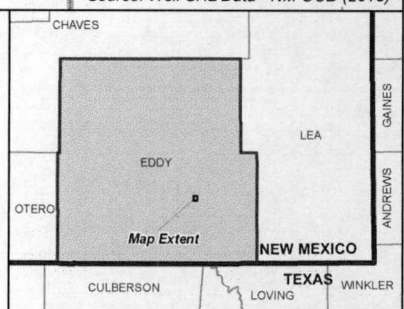
Striker 1 SWD No. 1 SHL

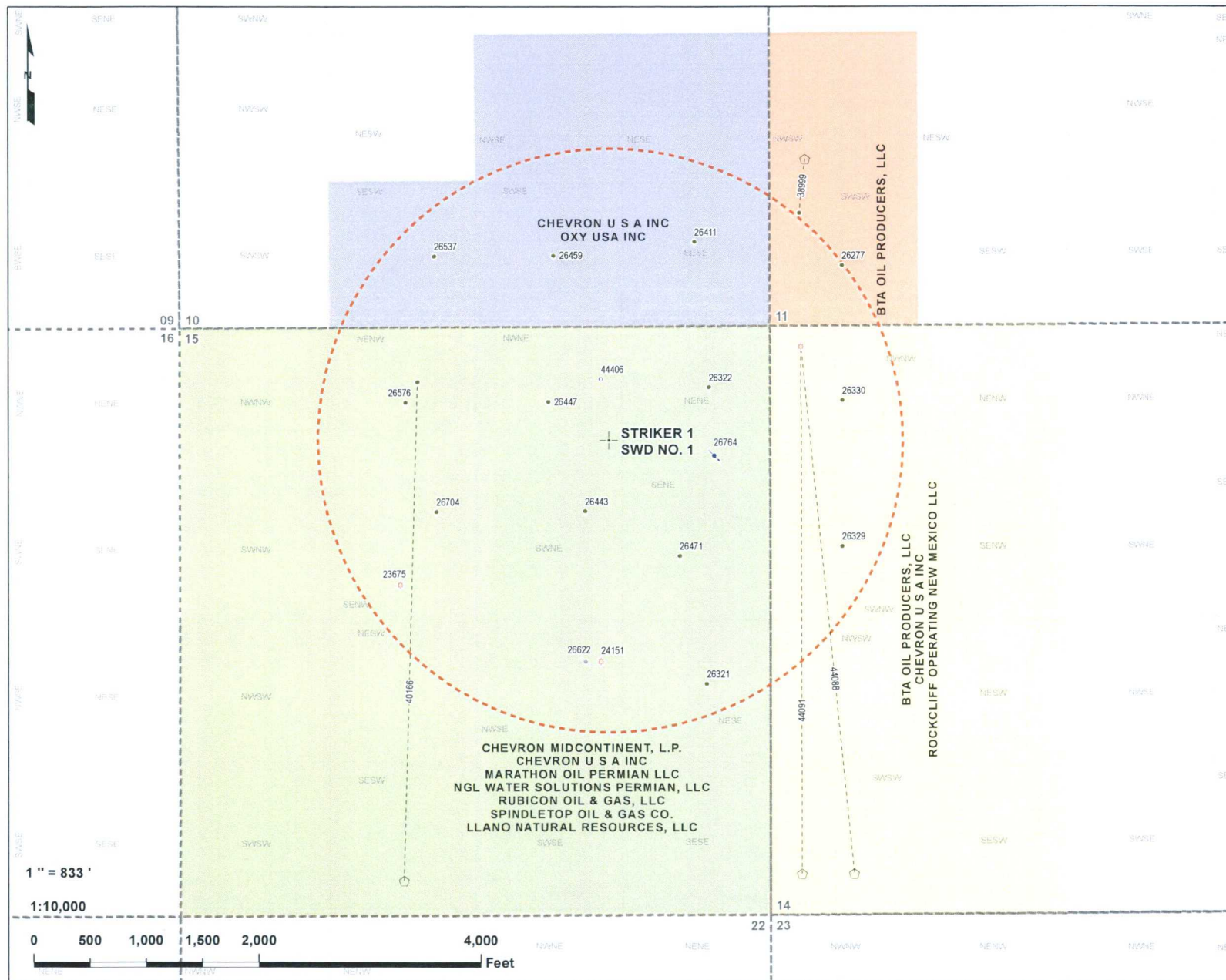
1/2-Mile Radius
 Property Boundary
 QQ-Section (NM-PLSS 2nd Div.)
 Section (NM-PLSS 1st Div.)
 Lateral

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

Horizontal Surface Location (4)
 Active - Gas (2)
 Active - Oil (13)
 Active - SWD (1)
 Permitted - SWD (1)
 Zones Temp./Plugged - Oil (1)

API (30-015-...) BHL Status-Type (Count)
 Active - Gas (1)
 Active - Oil (3)





Striker 1 SWD No. 1

Offset Leases

NGL Water Solutions Permian, LLC

Eddy Co., NM

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

Drawn by: ELR Date: 7/25/2018 Approved by: NLB

LONQUIST & CO. LLC

PETROLEUM ENGINEERS ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

Striker 1 SWD No. 1 SHL

1/2-Mile Radius

QQ-Section (NM-PLSS 2nd Div.)

Section (T23S R28E) (NM-PLSS 1st Div.)

--- Lateral

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

Horizontal Surface Location (4)

Active - Gas (2)

Active - Oil (13)

Active - SWD (1)

Permitted - SWD (1)

Zones Temp./Plugged - Oil (1)

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

Active - Gas (1)

Active - Oil (3)

Offset Lease Boundary

Lessee(s)

CHEVRON MIDCONTINENT, L.P.; CHEVRON U.S.A. INC.; MARATHON OIL PERMIAN LLC; NGL WATER SOLUTIONS PERMIAN, LLC; RUBICON OIL & GAS, LLC; SPINDLETOP OIL & GAS CO.; LLANO NATURAL RESOURCES, LLC

BTA OIL PRODUCERS, LLC

BTA OIL PRODUCERS, LLC; CHEVRON U.S.A. INC.; ROCKCLIFF OPERATING NEW MEXICO LLC

CHEVRON U.S.A. INC.; OXY USA INC.

Source: Lease Boundary/Well SHL Data NM OCD (2018)

1" = 833'

1:10,000

0 500 1,000 1,500 2,000 4,000 Feet



Shipment Receipt

Address Information

Ship to:
Llano Natural Resources, LLC

4920 S Loop 289
Suite 206
LUBBOCK, TX
79414
US
5126001774

Ship from:
Steve Pattee

1001 MCKINNEY ST
STE 1650
HOUSTON, TX
770026423
US
7135599956

Shipment Information:
Tracking no.: 772822785323
Ship date: 07/26/2018
Estimated shipping charges: 13.80 USD

Package Information
Pricing option: FedEx Standard Rate
Service type: FedEx Ground
Package type: Your Packaging
Number of packages: 1
Total weight: 1 LBS
Declared Value: 0.00 USD
Special Services: Adult signature required
Pickup/Drop-off: Use an already scheduled pickup at my location

Billing Information:
Bill transportation to: MyAccount-089
Your reference: 1467 - Legal Notice
P.O. no.:
Invoice no.:
Department no.:

Thank you for shipping online with FedEx ShipManager at fedex.com.

Please Note
FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1000, e.g., jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits; Consult the applicable FedEx Service Guide for details.
The estimated shipping charge may be different than the actual charges for your shipment. Differences may occur based on actual weight, dimensions, and other factors. Consult the applicable FedEx Service Guide or the FedEx Rate Sheets for details on how shipping charges are calculated.

**Shipment Receipt****Address Information****Ship to:**
Chevron Midcontinent, LP**Ship from:**
Steve Pattee

6301 Deauville Blvd

1001 MCKINNEY ST

MIDLAND, TX

STE 1650

79706

HOUSTON, TX

US

770026423

866-212-1212

US

7135599956

Shipment Information:

Tracking no.: 772822799775

Ship date: 07/26/2018

Estimated shipping charges: 13.80 USD

Package Information

Pricing option: FedEx Standard Rate

Service type: FedEx Ground

Package type: Your Packaging

Number of packages: 1

Total weight: 1 LBS

Declared Value: 0.00 USD

Special Services: Adult signature required

Pickup/Drop-off: Use an already scheduled pickup at my location

Billing Information:

Bill transportation to: MyAccount-089

Your reference: 1467-Legal Notice

P.O. no.:

Invoice no.:

Department no.:

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**Shipment Receipt****Address Information**

Ship to:
Select or enter
Rubicon Oil & Gas, LLC
508 W. Wall Street,
Suite 500
MIDLAND, TX
79701
US
432-687-5100

Ship from:
Steve Pattee

1001 MCKINNEY ST
STE 1650
HOUSTON, TX
770026423
US
7135599956

Shipment Information:

Tracking no.: 772822549010
Ship date: 07/26/2018
Estimated shipping charges: 13.80 USD

Package Information

Pricing option: FedEx Standard Rate
Service type: FedEx Ground
Package type: Your Packaging
Number of packages: 1
Total weight: 1 LBS
Declared Value: 100.00 USD
Special Services: Adult signature required
Pickup/Drop-off: Use an already scheduled pickup at my location

Billing Information:

Bill transportation to: MyAccount-089
Your reference: 1467-Legal Notice
P.O. no.:
Invoice no.:
Department no.:

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Goetze, Phillip, EMNRD

From: Michael Feldewert <MFeldewert@hollandhart.com>
Sent: Wednesday, July 18, 2018 2:04 PM
To: Goetze, Phillip, EMNRD
Cc: Podany, Raymond, EMNRD; McEniry, Kerry; Chris Weyand
Subject: Striker 1 SWD #1 Location Change - API No. 30-015-44406
Attachments: Striker 1 SWD #1_Loc Change_C-103_2018-07-10.pdf; STRIKER 1 SWD 1 Revised C-102_signed.pdf

Mr. Goetze: Pursuant to this location change filed by NGL Water Solutions, Chevron withdraws its objection to the administrative application for injection. Please let me know if you need any additional information.

Michael H. Feldewert
Santa Fe Office
505-988-4421
505-983-6043 (fax)
mfeldewert@hollandhart.com



CONFIDENTIALITY NOTICE: This message is confidential and may be privileged. If you believe that this email has been sent to you in error, please reply to the sender that you received the message in error; then please delete this e-mail. Thank you.

From: Chris Weyand [<mailto:chris@lonquist.com>]
Sent: Tuesday, July 10, 2018 3:56 PM
To: Podany, Raymond, EMNRD (Raymond.Podany@state.nm.us) <Raymond.Podany@state.nm.us>
Cc: Dickerson, Kevin <Kevin.Dickerson@chevron.com>; Doug White <Doug.White@nglep.com>; McEniry, Kerry <Kerry.McEniry@chevron.com>; Joshua Patterson (External) <Joshua.Patterson@nglep.com>; Neel Duncan <neel.duncan@iptenergyservices.com>; Phillip.Goetze@state.nm.us
Subject: [****EXTERNAL****] Striker 1 SWD #1 Location Change - API No. 30-015-44406

Hi Raymond,

Attached is the C-103 and updated C-102 for a proposed location change for the Striker 1 SWD #1 in Eddy County. Please let me know if you have any questions.

Updated AORs will be provided to the UIC as soon as they are complete.

Thanks,

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



HOUSTON | CALGARY
AUSTIN | WICHITA | DENVER

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