

RECEIVED  
DEPARTMENT OF ENERGY,  
MINERALS AND NATURAL RESOURCES  
OIL CONSERVATION DIVISION

**STATE OF NEW MEXICO**  
**DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES**  
**OIL CONSERVATION DIVISION**

**APPLICATION OF NGL WATER  
SOLUTIONS PERMIAN, LLC  
TO APPROVE SALT WATER  
DISPOSAL WELL IN LEA  
COUNTY, NEW MEXICO.**

**CASE NO. 20063**

**APPLICATION**

NGL Water Solutions Permian, LLC ("NGL"), OGRID No. 372338, through its undersigned attorneys, hereby makes this application to the Oil Conservation Division pursuant to the provisions of N.M. Stat. Ann. § 70-2-12, for an order approving drilling of a salt water disposal well in Lea County, New Mexico. In support of this application, NGL states as follows:

(1) NGL proposes to drill the Falcon SWD #1 well at a surface location 1722 feet from the South line and 221 feet from the West line of Section 20, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well.

(2) NGL seeks authority to inject salt water into the Silurian-Devonian formation at a depth of 17,152' - 19,032'.

(3) NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day.

(4) NGL anticipates using an average pressure of 2,572 psi for this well, and it requests that a maximum pressure of 3,430 psi be approved for the well.

(5) A proposed C-108 for the subject well is attached hereto in Attachment A.

(6) The granting of this application will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

WHEREFORE, NGL requests that this application be set for hearing before an Examiner of the Oil Conservation Division on November 15, 2018; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS  
& SISK, P.A.

By: Deana M Bennett

Jennifer Bradfute  
Deana Bennett  
Post Office Box 2168  
500 Fourth Street NW, Suite 1000  
Albuquerque, New Mexico 87103-2168  
Telephone: 505.848.1800  
*Attorneys for Applicant*

**CASE NO. 20063 Application of NGL Water Solutions Permian, LLC for approval of salt water disposal well in Lea County, New Mexico.** Applicant seeks an order approving disposal into the Silurian-Devonian formation through the Falcon SWD #1 well at a surface location 1722 feet from the South line and 221 feet from the West line of Section 20, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. The target formation is the Silurian-Devonian formation at a depth of 17,152' - 19,032'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said area is located approximately 18 miles west of Jal, New Mexico.

RECEIVED:	REVIEWER:	TYPE:	APP NO.:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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

**ADMINISTRATIVE APPLICATION CHECKLIST**

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

**Applicant:** NGL WATER SOLUTIONS PERMIAN LLC**OGRID Number:** 372338**Well Name:** FALCON SWD #1**API:** TBD**Pool:** SWD: SILURIAN-DEVONIAN**Pool Code:** 96101**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**1) **TYPE OF APPLICATION:** Check those which apply for [A]

A. Location – Spacing Unit – Simultaneous Dedication

NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD

B. Check one only for [ I ] or [ II ]

[ I ] Commingling – Storage – Measurement

DHC     CTC     PLC     PC     OLS     OLM

[ II ] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery

WFX     PMX     SWD     IPI     EOR     PPR

2) **NOTIFICATION REQUIRED TO:** Check those which apply.

- A.  Offset operators or lease holders
- B.  Royalty, overriding royalty owners, revenue owners
- C.  Application requires published notice
- D.  Notification and/or concurrent approval by SLO
- E.  Notification and/or concurrent approval by BLM
- F.  Surface owner
- G.  For all of the above, proof of notification or publication is attached, and/or,
- H.  No notice required

**FOR OCD ONLY**

- |   |
|---|
| <input type="checkbox"/> Notice Complete              |
| <input type="checkbox"/> Application Content Complete |

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

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

CHRIS WEYAND

10/09/2018

Date

Print or Type Name

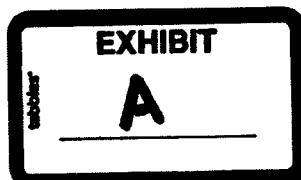
Signature

512-600-1764

Phone Number

CHRIS@LONQUIST.COM

e-mail Address



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT

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

FORM C-108  
Revised June 10, 2003

**APPLICATION FOR AUTHORIZATION TO INJECT**

I. PURPOSE: Secondary Recovery      Pressure Maintenance       Disposal       Storage  
Application qualifies for administrative approval?       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       No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_

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

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

VII. Attach data on the proposed operation, including:

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

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

IX. Describe the proposed stimulation program, if any.

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

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

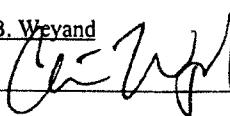
XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

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

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

NAME: Christopher B. Weyand

TITLE: Consulting Engineer

SIGNATURE: 

DATE: 10/12/2018

E-MAIL ADDRESS: chris@lonquist.com

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

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

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.

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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, LLC

WELL NAME &amp; NUMBER: FALCON SWD #1

WELL LOCATION:	L FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
1,722 FSL & 221' FWL		20	25S	34E	

WELLBORE SCHEMATIC

Hole Size: 24.000"Cemented with: 1,005 sx.Top of Cement: SurfaceCasing Size: 20.000"or \_\_\_\_\_ ft<sup>3</sup>Method Determined: Circulation1<sup>st</sup> Intermediate CasingHole Size: 17.500"Cemented with: 3,844 sx.Top of Cement: SurfaceCasing Size: 13.375"or \_\_\_\_\_ ft<sup>3</sup>Method Determined: Circulation2<sup>nd</sup> Intermediate CasingHole Size: 12.250"Cemented with: 3,295 sx.Top of Cement: SurfaceCasing Size: 9.625"or \_\_\_\_\_ ft<sup>3</sup>Method Determined: Circulation

WELL CONSTRUCTION DATA

Surface Casing

Production Liner

Hole Size: 8.500"

Cemented with: 268 sx.

Top of Cement: 11.900'

Total Depth: 19.032'

Casing Size: 7.625"

or \_\_\_\_\_ ft<sup>3</sup>

Method Determined: Calculation

Injection Interval

17.152 feet to 19.032 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 7", 26 lb/ft, P-110, TCPC from 0' - 11,800' and 5,500", 17 lb/ft, P-110 TCPC from 11,800' - 17,127'  
Lining Material: Duoline

Type of Packer: 7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

Packer Setting Depth: 17,127'

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, Fusseleman and Montoya (Top 100')

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No, new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:  
Bone Spring: 9,207'  
Wolfcamp: 12,253'  
Morrow: 14,939'



**Falcon SWD**  
Lea County NM  
Location - 1722 FEI 2221 FWL; Sec 20, T25S R34E  
Drilling and Complete Cost: **\$115,000**  
**TD** **19,032**  
Directions to Site - 3.5 mi WSW of 035-24683, 3 mi SW of Sidewinder,  
17 mi w of La Jolla  
**AEF #**

**NGL Water Solutions Permian, LLC**

**Falcon SWD No. 1**

**FORM C-108 Supplemental Information**

**III. Well Data**

**A. Wellbore Information**

1.

Well information	
Lease Name	Falcon SWD
Well No.	1
Location	S-20 T-25S R-34E
Footage Location	1,722' FSL & 221' FWL

2.

a. Wellbore Description

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	20"	13.375"	9.625"	7.625"
WT	0.635"	0.480"	0.545"	0.500"
ID	18.730"	12.415"	8.535"	6.625"
Drift ID	18.542"	12.259"	8.535"	6.500"
COD	21.00"	14.375"	10.625"	7.625"
Weight	133 lb/ft	68 lb/ft	53.5 lb/ft	39 lb/ft
Grade	K-55	HCL-80	P-110	Q-125
Hole Size	24"	17.5"	12.25"	8.5"
Depth Set	1,200'	5,200'	12,400'	11,900' - 17,152'

b. Cementing Program

Cement Information				
Casing String	Surface	Intermediate	Production	Liner
Lead Cement	Extenda Cem	Neocem	Neocem	Neocem
Lead Cement Volume	499	1,997	Stage 1: 553 sx Stage 2: 508 sx Stage 3: 663 sx	154
Tail Cement	Halcem	Halcem	Versacem C, Halcem, Halcem	Halcem
Tail Cement Volume	506	1,847	Stage 1: 471 sx Stage 2: 590 sx Stage 3: 510 sx	214
Cement Excess	25%	60%	25%, 25%, 0%	35%
TOC	Surface	Surface	Surface	11,900'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

Tubing Information		
<b>OD</b>	7"	5.5"
<b>WT</b>	0.362"	0.304"
<b>ID</b>	6.276"	4.892"
<b>Drift ID</b>	7.875"	6.050"
<b>COD</b>	6.151"	4.653"
<b>Weight</b>	26 lb/ft	17 lb/ft
<b>Grade</b>	P-110 TCPC	P-110 TCPC
<b>Depth Set</b>	0'-11,800'	11,800' -17,127'

Tubing will be lined with Duoline.

4. Packer Description

7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

B. Completion Information

1. Injection Formation: Devonian, Silurian, Fusselman, Montoya (Top 100')
2. Gross Injection Interval: 17,152' – 19,032'

Completion Type: Open Hole

3. Drilled for injection.
4. See the attached wellbore schematic.

5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Bone Spring	9,207'
Wolfcamp	12,253'
Morrow	14,939'

## **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: 40,000 BPD

Maximum Volume: 50,000 BPD

### **2. Closed System**

### **3. Anticipated Injection Pressure:**

Average Injection Pressure: 2,572 PSI (surface pressure)

Maximum Injection Pressure: 3,430 PSI (surface pressure)

- 4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Bone Spring and Wolfcamp formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Bone Spring, Wolfcamp, 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 Anhydrite	813
Delaware	5,260
Bone Spring	9,207
Wolfcamp	12,253
Penn	13,257
Atoka	13,982
Morrow	14,939
Mississippian	15,802
Woodford	16,945
Devonian	17,122
Fusselman	18,182
Montoya	18,932

### B. Underground Sources of Drinking Water

There are no water wells within 1-mile of the proposed Falcon SWD #1 location. Water wells in the surrounding area have an average depth of 307 ft and an average water depth of 205 ft generally producing from the Santa Rosa. The upper Rustler may also be another USDW and will be protected.

#### **IX. Proposed Stimulation Program**

Stimulate with up to 50,000 gallons of acid.

#### **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**

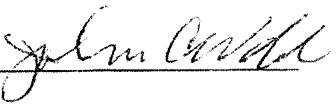
There are no water wells that exist within one mile of the well location.

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 (in the proposed Falcon SWD #1) and any underground sources of drinking water.

NAME: John C. Webb

TITLE: Sr. Geologist

SIGNATURE: 

DATE: Dec 10, 2018

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**District II**  
811 S. First St., Aztec, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

**State of New Mexico**  
**Energy Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
Revised July 13, 2013

AMENDED REPORT

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

<sup>1</sup> Operator Name and Address NGL WATER SOLUTIONS PERMIAN, LLC 1509 W WALL ST, STE 306 MIDLAND, TX 79701		<sup>2</sup> OGRID Number 372338
		<sup>3</sup> API Number TBD
<sup>4</sup> Property Code	<sup>5</sup> Property Name FALCON SWD	<sup>6</sup> Well No. 1

<sup>7</sup> Surface Location

UL - Lot L	Section 20	Township 25S	Range 34E	Lot Idn N/A	Feet from 1,722'	N/S Line SOUTH	Feet From 221'	E/W Line WEST	County LEA
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<sup>8</sup> Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
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<sup>9</sup> Pool Information

Pool Name SWD; Silurian-Devonian	Pool Code 96101
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**Additional Well Information**

<sup>11</sup> Work Type N	<sup>12</sup> Well Type SWD	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Private	<sup>15</sup> Ground Level Elevation 3,322'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 19,032'	<sup>18</sup> Formation Siluro-Devonian	<sup>19</sup> Contractor TBD	<sup>20</sup> Spud Date ASAP
Depth to Ground water 205'	Distance from nearest fresh water well > 1 mile		Distance to nearest surface water > 1 mile	

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

<sup>21</sup> Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	24"	20"	133 lb/ft	1,200'	1,005	Surface
Intermediate	17.5"	13.375"	68 lb/ft	5,200'	3,844	Surface
Production	12.25"	9.625"	53.5 lb/ft	12,400'	3,295	Surface
Prod. Liner	8.5"	7.625"	39 lb/ft	17,152'	368	11,900'
Tubing	N/A	7"	26 lb/ft	0' – 11,800'	N/A	N/A
Tubing	N/A	5.5"	17 lb/ft	11,800' – 17,127'	N/A	N/A

**Casing/Cement Program: Additional Comments**

See attached schematic.

<sup>22</sup> Proposed Blowout Prevention Program

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

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC  and/or 19.15.14.9 (B) NMAC , if applicable.

Signature:

Printed name: Christopher B. Weyand

Title: Consulting Engineer

E-mail Address: chris@lonquist.com

Date: 10/12/2018

**OIL CONSERVATION DIVISION**

Approved By:

Title:

Approved Date: Expiration Date:

Conditions of Approval Attached

District I  
 1625 N French Dr., Hobbs, NM 88240  
 Phone: (575) 393-6161 Fax: (575) 393-0720  
 District II  
 811 S First St., Artesia, NM 88210  
 Phone: (575) 748-1283 Fax: (575) 748-9720  
 District III  
 1000 Rio Brazos Road, Artesia, 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-10  
 Revised August 1  
 201

Submit one copy to appropriate  
 District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number		<sup>2</sup> Pool Code 96101	<sup>3</sup> Pool Name SWD; Silurian-Devonian	
<sup>4</sup> Property Code		<sup>5</sup> Property Name FALCON SWD		<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 372338	<sup>8</sup> Operator Name NGL WATER SOLUTIONS PERMIAN, LLC		<sup>9</sup> Elevation 3322.00±	

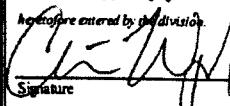
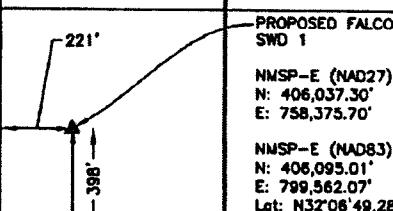
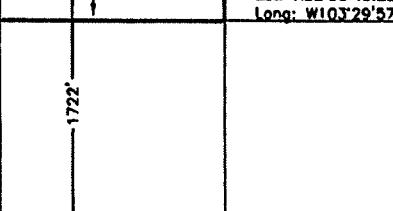
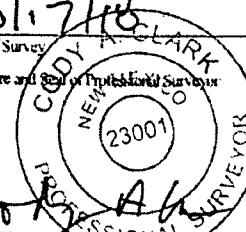
**" Surface Location**

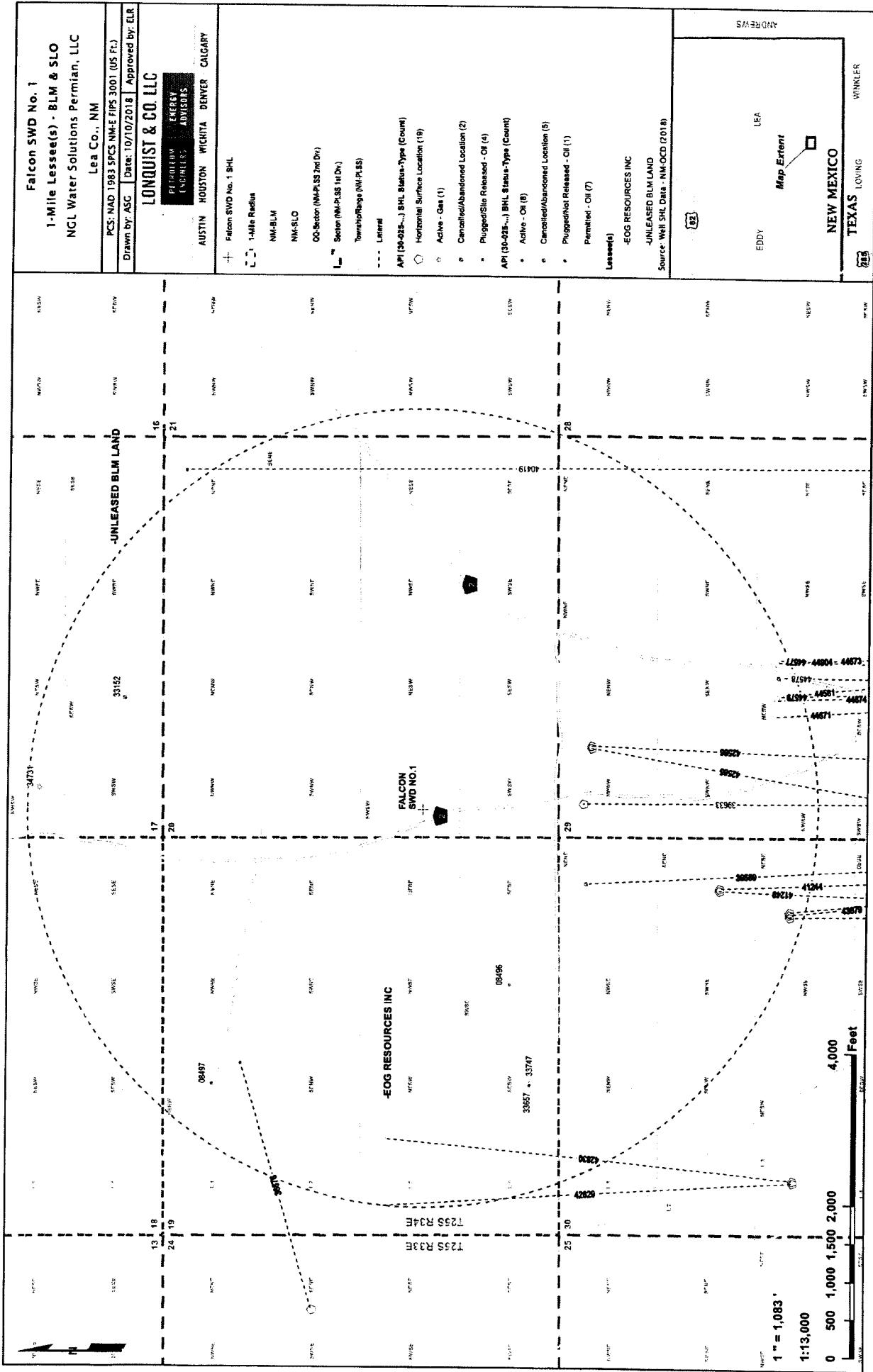
UL or lot no. <u>L</u>	Section 20	Township 25 S	Range 34 E	Lot Idn N/A	Feet from the 1722'	North/South line SOUTH	Feet from the 221'	East/West line WEST	County LEA
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**" Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.					

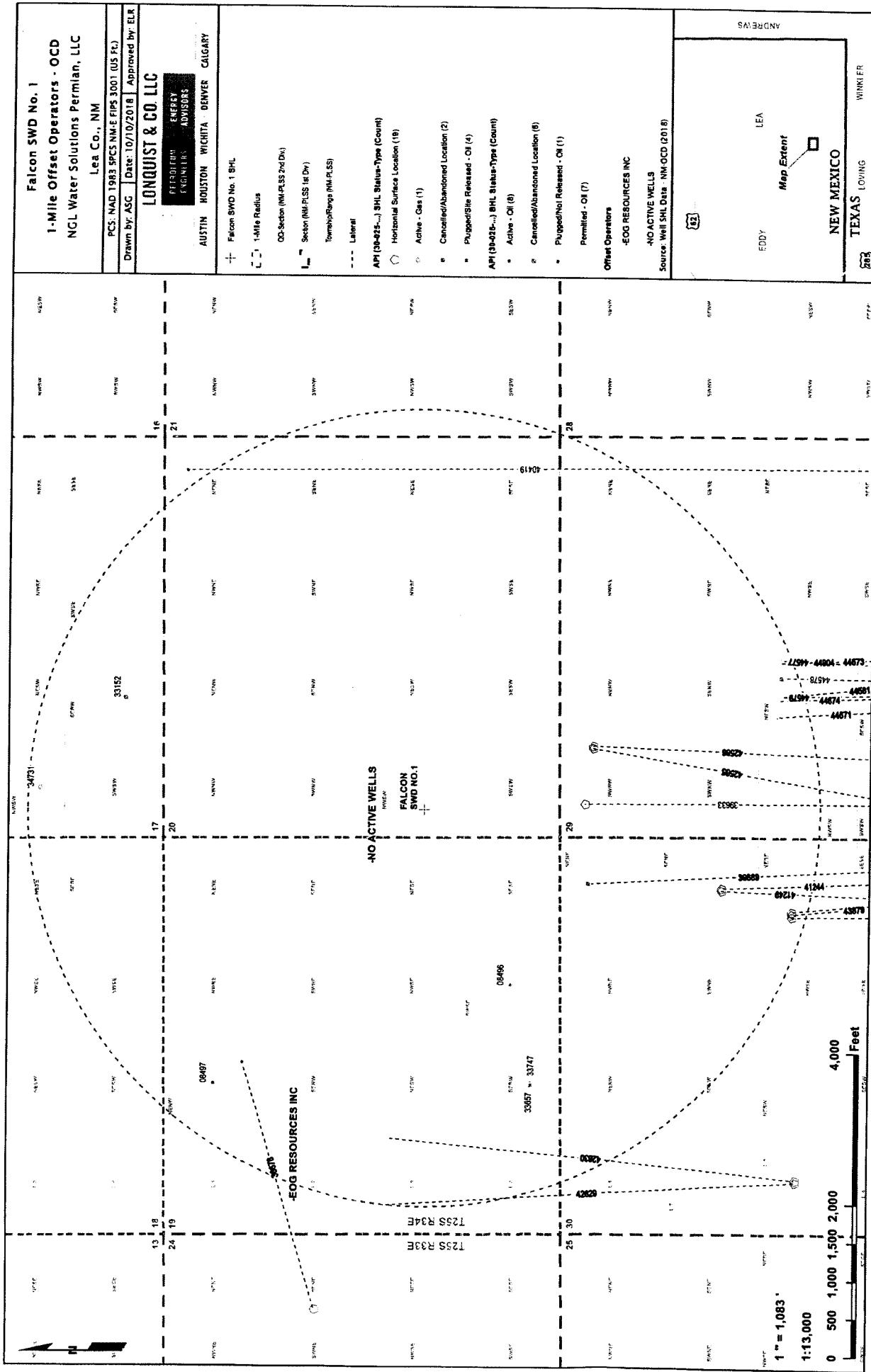
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

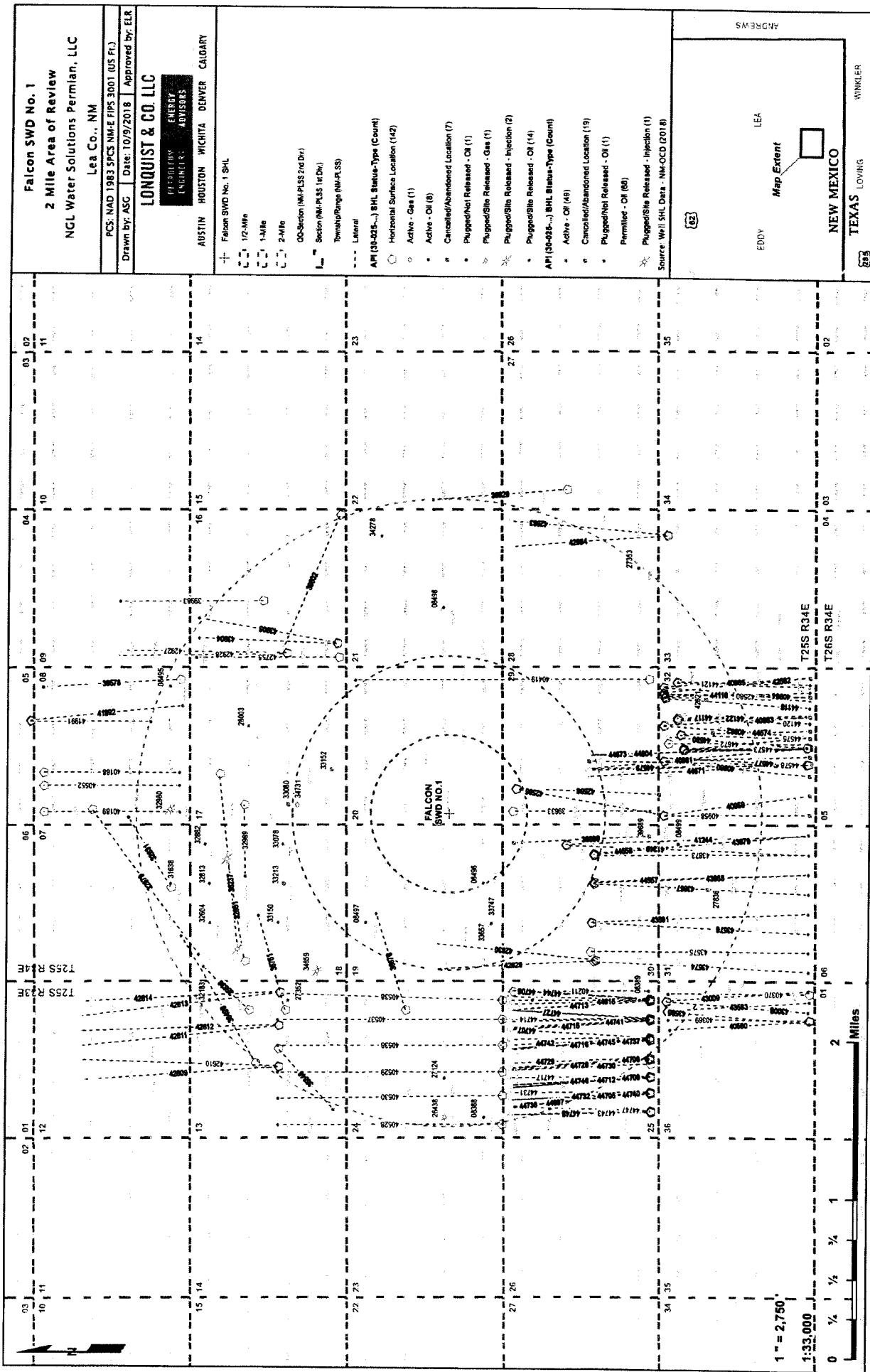
<sup>16</sup>	<sup>17</sup>	<sup>18</sup>	<sup>19</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete the best of my knowledge and belief, and that this organization either owns working interest or leased mineral interest in the land including 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 hereof entered by the division.
<b>SECTION 20</b>			<sup>20</sup>  Chris Weyand Printed Name chris@lonquist.com E-mail Address
 <b>PROPOSED FALCON SWD 1</b> <b>NMSP-E (NAD27)</b> N: 406,037.30' E: 758,375.70'  <b>NMSP-E (NAD83)</b> N: 406,095.01' E: 799,562.07' Lat: N32°06'49.28" Long: W103°29'57.48"			<sup>21</sup> <b>SURVEYOR CERTIFICATION</b> 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.
 <b>1722'</b>			<b>81-718</b> Date of Survey Signature and Seal of Professional Surveyor  Certificate Number



Falcon SWD No. 1  
1 Mile Area of Review List

API (30-025...)	WELL NAME	WELL TYPE	STATUS	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	DATE DRILLED
08496	PRE-ONGARD WELL #001	0	P	5380	32.1105309000	-103.506843600	1/1/1900
08497	PRE-ONGARD WELL #002	0	P	5380	32.1105309000	-103.511085500	1/1/1900
33152	JAVELEINA 17 FEDERAL #004	0	C	5352	32.1214256000	-103.494514254	12/31/9999
33657	ETHEL 19 MUR FEDERAL #001	0	P	0	32.1246221009	-103.511192300	11/18/1996
33747	ETHEL 19 MUR FEDERAL #001Y	0	P	854	32.1098175000	-103.511093100	11/22/1996
34731	JAVELEINA 17 FEDERAL #003	G	A	12609	32.1098175000	-103.4983321500	10/27/1999
36176	VACA 24 FEDERAL #001H	0	A	14080	32.1277733000	-103.4983321500	10/27/1999
39633	HORSE 29 STATE #001H	0	A	12248	32.1178017000	-103.5206833000	10/7/2004
39689	HORSE 30 STATE #001H	0	C	9634	32.1078033000	-103.499061600	2/12/2010
40419	PITCHBLEND 29 FEDERAL COM #001H	0	A	0	32.0950865775	-103.5017306572	12/31/9999
41244	FOX 30 STATE COM #004H	0	A	9502	32.0950813000	-103.484764100	4/5/2012
41249	FOX 30 STATE COM #003H	0	A	9649	32.1028328000	-103.502662700	8/15/2013
42565	HORSE 29 STATE #01C	0	C	9632	32.1028328000	-103.502761800	7/25/2013
42566	HORSE 29 STATE #702C	0	C	0	32.1074910571	-103.496686842	12/31/9999
42829	JALELINA 3G FEDERAL #501H	0	N	0	32.1074909259	-103.496589490	12/31/9999
42830	JALELINA 3G FEDERAL #602H	0	N	0	32.1001397000	-103.515312800	12/31/9999
43873	FOX 30 FEDERAL COM #703H	0	A	0	32.1001397000	-103.5152116000	12/31/9999
43879	FOX 30 FEDERAL COM #604H	0	A	12654	32.1002601000	-103.503868500	3/5/2018
44558	FOX 30 FEDERAL COM #705H	0	A	12438	32.1002600000	-103.5037755600	3/16/2018
44577	CONDOR 32 STATE COM #121H	O	N	12667	32.1002599000	-103.5036426500	4/1/2018
44578	CONDOR 32 STATE COM #714C	O	C	0	32.0804487000	-103.493926700	4/24/2018
44579	CONDOR 32 STATE COM #715H	O	N	0	32.0805394000	-103.493926700	4/24/2018
44581	CONDOR 32 STATE COM #121C	O	C	0	32.0806301000	-103.493326600	12/31/9999
44671	CONDOR 32 STATE COM #615H	O	N	0	32.0805401000	-103.492087600	12/31/9999
44674	CONDOR 32 STATE COM #614H	O	N	0	32.0805394000	-103.493226700	4/2/2018
44904	CONDOR 32 STATE COM #121Y	O	N	0	32.0806302000	-103.493326400	4/18/2018
	EOG RESOURCES INC			0	32.0806308000	-103.492087700	6/21/2018





Falcon SWD #1: Offsetting Produced Water Analysis																	
wellname	api	section	township	range	unit	county	formation	ph	tds_mgL	sodium_mgL	calcium_mgL	iron_mgL	magnesium_mgL	chloride_mgL	bicarbonate_mgL	manganese_mgL	co2_mgL
BELL LAKE UNIT #009	3002520261	18 23S	K	34E	LEA	BONIE SPRING	BONIE SPRING	5.2	204652	24176	0	3815	130000	51.2	260		
CORIANDER AOC STATE #002	3002533574	1 23S	H	32E	LEA	BONIE SPRING	BONIE SPRING	5.6	171476.3	55363.2	9140	40.4	1023	1.1	165		
THISTLE UNIT #071H	3002542425	27 23S	A	Lea	BONIE SPRING 1ST SAND	BONIE SPRING 1ST SAND	BONIE SPRING 2ND SAND	6.2	47148	6419	15	854	0	104576.4	244	560	
BELL LAKE 19 STATE MOD#H	3002541515	19 24S	O	33E	Lea	BONIE SPRING 2ND SAND	BONIE SPRING 2ND SAND	6.3	47537	6950	11	886	9572	232	670		
BELL LAKE 19 STATE #004H	3002541517	19 24S	O	33E	Lea	BONIE SPRING 2ND SAND	BONIE SPRING 2ND SAND	6.5	99612.7	34586.5	3244	10.3	0	88389	171	650	
SALADO DRAW/FEDERAL #001H	3002541293	6 26S	34E	M	Lea	BONIE SPRING 3RD SAND	BONIE SPRING 3RD SAND	6.5	48879	6182	11	417.7	0.39	59986.5	138.6	210	
GAUCHO UNIT #011H	3002541184	17 22S	34E	O	Lea	EDDY WOLFCAMP	EDDY WOLFCAMP	7.3	81366.4	26319.4	2687.4	26.1	802	0.12	88336	122	50
SNAPPING 2 STATE #014H	3001542688	2 26S	31E	P	EDDY WOLFCAMP	EDDY WOLFCAMP	EDDY WOLFCAMP	6.8	119471.8	37358.2	5659.1	22.4	746.1	50281.2	399.7	100	
BELLOQ 2 STATE #002H	3001542895	2 23S	31E	C	EDDY WOLFCAMP	EDDY WOLFCAMP	EDDY WOLFCAMP	9 24S	35E	K	LEA MORROW	282741		73172.5	1035.5	250	
CLUSTER MOUNTAIN UNIT #001	3002530756												176800	161	650		