FEB 05 2019 AM 10:53

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
MM 2/8/2019		SWD	pMAM1903729725

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: 3Bear Field Services, LLC **OGRID Number: 372603**
Well Name: Foundation Minerals Fee SWD No. 1 **API: 30-015-45047**
Pool: SWD; Silurian-Devonian **Pool Code: 97869**

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 ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
   [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
   ☐ WFX ☐ PMX ■ SWD ☐ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
   A. ■ Offset operators or lease holders
   B. ☐ Royalty, overriding royalty owners, revenue owners
   C. ■ Application requires published notice
   D. ☐ Notification and/or concurrent approval by SLO
   E. ☐ Notification and/or concurrent approval by BLM
   F. ■ Surface owner
   G. ■ For all of the above, proof of notification or publication is attached, and/or,
   H. ☐ No notice required

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

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

Ramona Hovey – Agent of 3Bear Field Service
Print or Type Name

Ramona K Hovey
Signature

January 30, 2019
Date

(512) 600-1777
Phone Number

ramona@lonquist.com
e-mail Address

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

FEB 05 2019 AM10:53

January 30, 2019

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

RE: FOUNDATION MINERALS FEE 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 3Bear Field Services, LLC's (3Bear") Foundation Minerals Fee SWD No. 1. In addition, Forms C-101 and C-102 have also been included with this package. Notices have been sent to offset, operators, leaseholders and the surface owner. Proof of notice will be sent to the OCD upon receipt.

Any questions should be directed towards 3Bear Field Services, LLC's agent Lonquist & Co., LLC.

Regards,

Ramona K Hovey

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

(512) 600-1777
ramona@lonquist.com

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: 3Bear Field Services, LLC

ADDRESS: 415 W. Wall St., Suite 1212

CONTACT PARTY: Kevin Burns PHONE: 432-686-2973

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: Ramona Hovey TITLE: Consulting Engineer – Agent for 3Bear Field Service

SIGNATURE: Ramona K Hovey DATE: 01/30/2019

E-MAIL ADDRESS: ramona@lonquist.com

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

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

Side 2

III. WELL DATA

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

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

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

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

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

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

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

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

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

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

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

Side 1

INJECTION WELL DATA SHEET

OPERATOR: 3Bear Field Services, LLC

WELL NAME & NUMBER: Foundation Minerals Fee SWD No. 1

WELL LOCATION: 2,368 FSL & 166' FWL (FOOTAGE LOCATION) | L (UNIT LETTER) | 04 (SECTION) | 24S (TOWNSHIP) | 27E (RANGE)

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26.000"
Cemented with: 328 sacks
Top of Cement: surface

Casing Size: 20.00"
or __ ft³
Method Determined: circulation

Intermediate Casing

Hole Size: 17.500"
Cemented with: 442 sacks.
Top of Cement: surface

Casing Size: 13.375"
or __ ft³
Method Determined: circulation

Production Casing

Hole Size: 12.250"
Cemented with: 1,457 sacks
Top of Cement: surface

Casing Size: 9.625"
or __ ft³
Method Determined: circulation

Production Liner

Hole Size: 8.500"
Cemented with: 701 sacks.
Top of Cement: 5,195'
Total Depth: 14,095'

Casing Size: 7.625"
or __ ft³
Method Determined: calculation

Injection Interval

13,195 feet to 14,095 feet

(Open Hole)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 17 lb/ft, HCL-80, BTC from 0' – 13,095'

Lining Material: Duoline

Type of Packer: 7-5/8" X 5-1/2" Permanent Packer with High Temperature Elastomer and Full Inconel 925 Trim

Packer Setting Depth: 13,095'

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

Additional Data

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

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

   _____

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

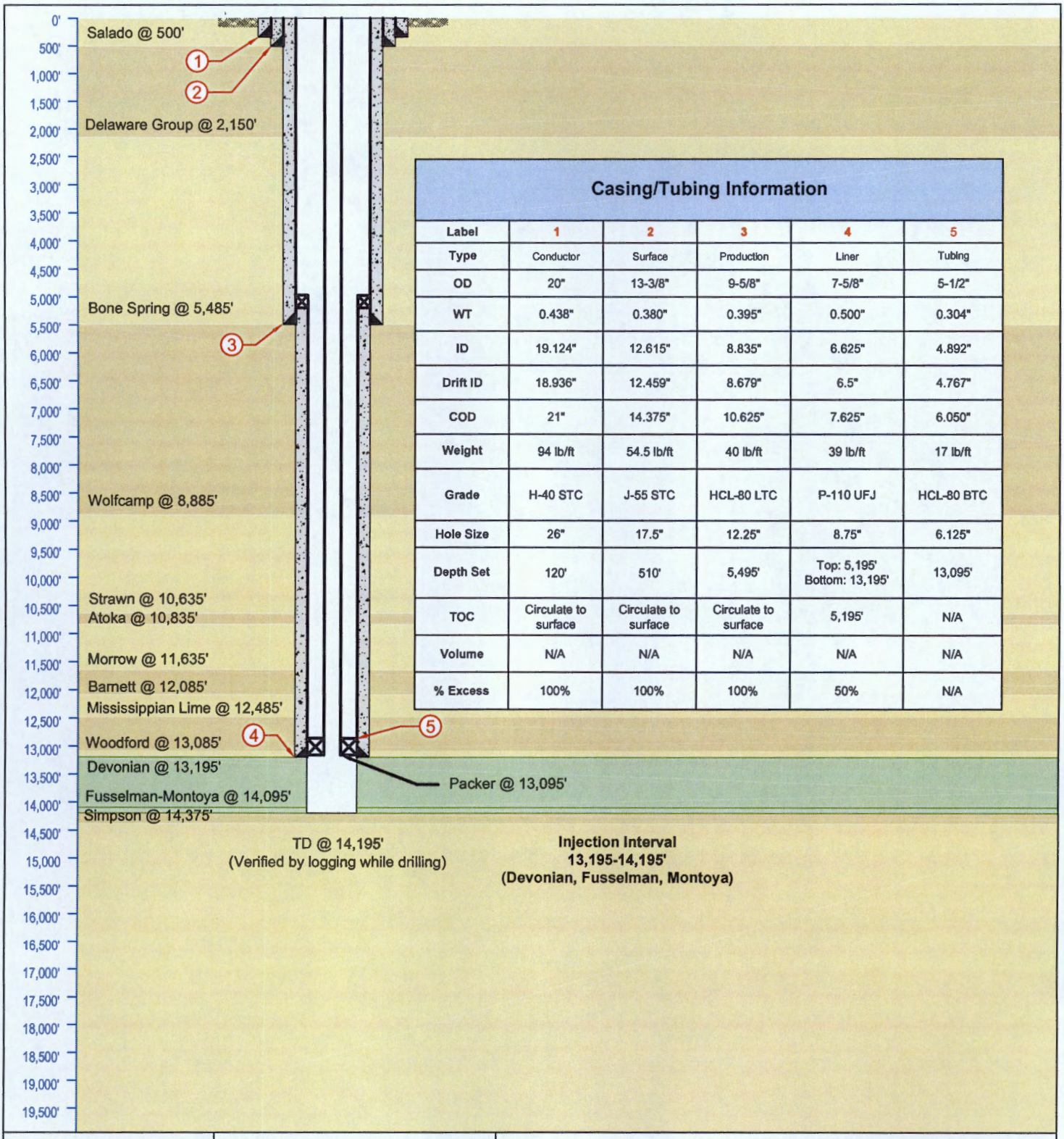
3. Name of Field or Pool (if applicable): SWD: Silurian-Devonian Disposals (Pool Code: 97869)

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

   No, new drill.

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

   Delaware: 2,150'
   Bone Spring: 5,485'
   Wolfcamp: 8,885'
   Strawn: 10,635'
   Atoka: 10,835'



Casing/Tubing Information

Label	1	2	3	4	5
Type	Conductor	Surface	Production	Liner	Tubing
OD	20"	13-3/8"	9-5/8"	7-5/8"	5-1/2"
WT	0.438"	0.380"	0.395"	0.500"	0.304"
ID	19.124"	12.615"	8.835"	6.625"	4.892"
Drift ID	18.936"	12.459"	8.679"	6.5"	4.767"
COD	21"	14.375"	10.625"	7.625"	6.050"
Weight	94 lb/ft	54.5 lb/ft	40 lb/ft	39 lb/ft	17 lb/ft
Grade	H-40 STC	J-55 STC	HCL-80 LTC	P-110 UFJ	HCL-80 BTC
Hole Size	26"	17.5"	12.25"	8.75"	6.125"
Depth Set	120'	510'	5,495'	Top: 5,195' Bottom: 13,195'	13,095'
TOC	Circulate to surface	Circulate to surface	Circulate to surface	5,195'	N/A
Volume	N/A	N/A	N/A	N/A	N/A
% Excess	100%	100%	100%	50%	N/A

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

Texas License F-9147

12912 Hill Country Blvd. Ste F-200
Austin, Texas 78738
Tel: 512.732.9812
Fax: 512.732.9816

3Bear Field Services, LLC	Foundation Minerals Fee SWD No. 1	
Country: USA	**State/Province:** New Mexico	**County/Parish:** Eddy
Location:	**Site:** 2,368 FSL, 166 FWL	**Survey:** S4-T24S-R27E
API No: N/A	**Field:**	**Well Type/Status:** SWD
NMOCD District No: 1	**Project No:**	**Date:** 01/28/2019
Drawn: TFM	**Reviewed:**	**Approved:**
Rev No: 1	**Notes:**	

3Bear Field Services, LLC

Foundation Minerals Fee SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Foundation Minerals Fee SWD
Well No.	1
Location	S-4 T-24S R-27E
Footage Location	2,368' FSL & 166' FWL

2.

a. Wellbore Description

Casing Information				
Type	Conductor	Surface	Production	Liner
OD	20"	13-3/8"	9-5/8"	7-5/8"
WT	0.438"	0.380"	0.395"	0.500"
ID	19.124"	12.615"	8.835"	6.625"
Drift ID	18.936"	12.459"	8.679"	6.500"
COD	21"	14.375"	10.625"	7.625"
Weight	94 lb/ft	54.5 lb/ft	40 lb/ft	39 lb/ft
Grade	H-40 STC	J-55 STC	HCL-80 LTC	P-110 UFJ
Hole Size	26"	17.5"	12.25"	8.5"
Depth Set	120'	510'	5,495'	5,195'-13,195'

b. Cementing Program

Cement Information				
Casing String	Conductor	Surface	Production	Liner
Lead Cement	Class H	HalCem	Stage 1: NeoCem Stage 2: NeoCem Stage 3: ExtendaCem	VERSACEM w/ gas migration control additives
Lead Cement Volume	328 sks	310 sks	Stage 1: 262 sks Stage 2: 549 sks Stage 3: 263 sks	701 sks
Tail Cement	-	HalCem	Stage 1: HalCem Stage 2: HalCem	Halcem
Tail Cement Volume	-	132 sks	Stage 1: 350 sks Stage 2: 33 sks	
Cement Excess	100%	100%	100%	50%
TOC	Surface	Surface	Surface	5,195'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

OD	5.5"
WT	0.304"
ID	4.892"
Drift ID	4.767"
COD	6.050"
Weight	17 lb/ft
Grade	HCL-80 BTC
Depth Set	0'-13,095'

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, Fusselman, Montoya (Top 100')

2. Gross Injection Interval: 13,195'-14,195'

   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	2,150'
Bone Spring	5,485'
Wolfcamp	8,885'
Strawn	10,635'
Atoka	10,835'

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: 20,000 BPD
   Maximum Volume: 25,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

   Average Injection Pressure: 1,980 PSI (surface pressure)
   Maximum Injection Pressure: 2,639 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 Artesia, Bone Spring, Delaware, San Andreas, Morrow, and Pennsylvanian, and Wolfcamp.

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

VIII. Geological Data

Devonian Formation Lithology:

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

Fusselman Formation Lithology:

The Silurian/Ordovician Fusselman Formation is stratigraphically below the Wristen Group and is above and separated from the Montoya Formation by the Sylvan Shale. The Sylvan Shale is the lower confining layer for the proposed Foundation Minerals SWD No. 1 well. Fusselman facies include a laminated skeletal wackestone in the upper part and a buildup complex in the lower part composed of ooid and bryozoan grainstones. These grainstones can also be potentially prolific zones for disposal.

Montoya Formation Lithology:

The Montoya Group of Late Ordovician age unconformably overlies the Simpson Group. The Montoya is composed of light gray to medium-dark gray, fine- to medium-crystalline, calcareous dolomite, some units of which are interbedded with shale or dark-gray limestone and some units of which contain white to very light-gray chert. The Montoya carbonate limestone dolomite sequence is dense, impermeable, and non-porous.

A. Injection Zone: Siluro-Devonian Formation

Formation	Depth
Salado	500'
Delaware	2,150'
Bone Spring	5,485'
Wolfcamp	8,885'
Strawn	10,635'
Atoka	10,835'
Morrow	11,635'
Barnett	12,085'
Mississippian Lime	12,485'
Woodford	13,085'
Devonian	13,195'
Fusselman	14,095'
Simpson	14,375'

B. Underground Sources of Drinking Water

One water well exists within one mile of the proposed well. Across the area, fresh water wells are usually drilled between 50' and 300' in depth. The Rustler is known to exist in this general area and may also be another USDW and will be protected through the top of the Salado Formation at 500' by setting surface casing at 510'.

IX. Proposed Stimulation Program

No stimulation program planned.

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

Attached is a map of the one (1) water well that exist within one mile of the well location. Samples from the well have been obtained and analysis results will be provided as soon as possible. A Water Right Summary from the New Mexico Office of the State Engineer is attached for water well C-00364.

ZEIGLER GEOLOGIC CONSULTING, LLC
13170 Central Ave. SE, Suite B #137
Albuquerque, NM 87123
zeiglergeo@gmail.com; zeiglergeo.com
(505) 263.5448 (575) 207.7826

For: 3Bear Energy, LLC
415 W. Wall St., Suite 1212
Midland, TX 79701

June 28, 2018

Re: Foundation Minerals Fee SWD #1, Eddy County, New Mexico

With regards to the Foundation Minerals Fee SWD #1 well, located in unit letter L, section 04, T24S, R27E (NM Prime Meridian) in Eddy County, the nearest documented basement-penetrating fault is located approximately 23 miles southwest of the well's location. Available geologic and engineering data has been examined and suggest no evidence of faults in proximity to the well, nor hydrological connection between the proposed injection zone and any freshwater aquifers utilized for domestic, municipal or livestock water resources.

Sincerely,

Kate Zeigler, Ph.D., CPG (AIPG #11803)
Geologist

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

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

RECEIVED
NOV 02 2018
DISTRICT II-ARTESIA O.C.D.

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

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

1. Operator Name and Address	2. OGRID Number
3Bear Field Services 415 W. Wall St., Suite 1212 Midland, TX 79701	372603
	3. API Number 30-~~025~~- 015-45047

4. Property Code	5. Property Name	6. Well No.
321564	Foundation Minerals Fee SWD	1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
SW ¼ V	4	24S	27E		2,309	South	366	West	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	Pool Code
SWD; Silurian-Devonian	97869

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
N	SWD	R	Private	3,174'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	14,095	Devonian	TBD	ASAP

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water
N/A	3,210'	2,500'

☐ 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
Conductor	26"	20"	94.00 lb/ft	120'	328 sks	Surface
Intermediate 1	17.5"	13.375"	54.50 lb/ft	510'	442 sks	Surface
Intermediate 2	12.25	9.625"	40.00 lb/ft	5,495'	1,457 sks	Surface
Production	8.5"	7-5/8"	38.00 lb/ft	5,195'-13,195'	701 sks	5,195'
Tubing	N/A	5.5"	17 lb/ft	0'-13,095'	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 ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.
Signature: Tyler Moehlman

Printed name: Tyler Moehlman

Title: Consulting Engineer- Agent for 3Bear Field Services, LLC

E-mail Address: tyler.moehlman@lonquist.com

Date: 11/1/2018 Phone: 713-987-4144

OIL CONSERVATION DIVISION

Approved By: Raymond W Podany

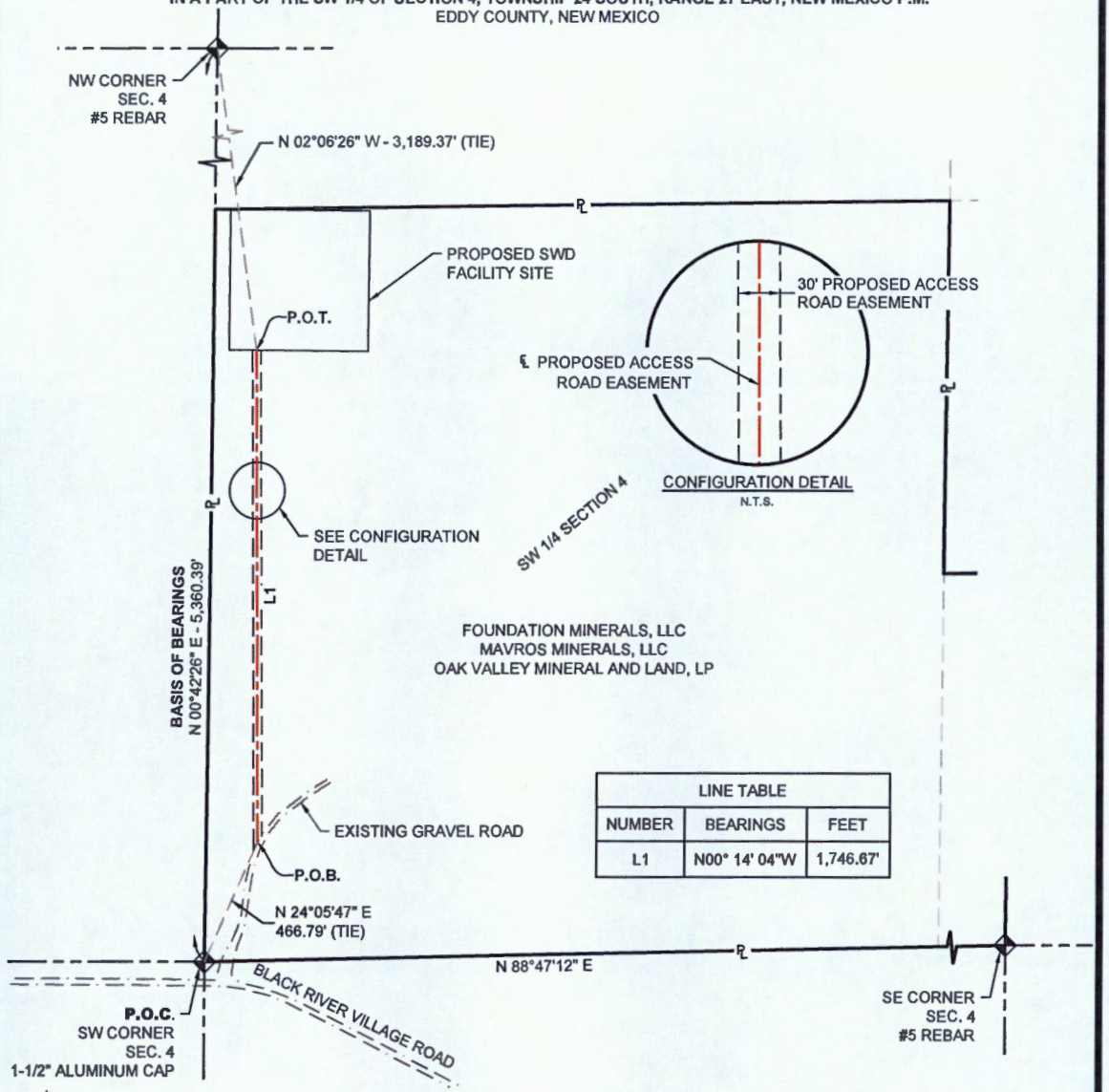
Title: Geologist

Approved Date: 11/13/18 Expiration Date: 11/13/2020

Conditions of Approval Attached Approved C-108.

EXHIBIT "A"

IN A PART OF THE SW 1/4 OF SECTION 4, TOWNSHIP 24 SOUTH, RANGE 27 EAST, NEW MEXICO P.M.
EDDY COUNTY, NEW MEXICO



LINE TABLE		
NUMBER	BEARINGS	FEET
L1	N00° 14' 04"W	1,746.67'

Graphic Scale in Feet
500' 250' 0 500'

LEGEND

P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS
P.O.C.	POINT OF COMMENCEMENT
	POINT OF INTERSECTION
	SECTION CORNER
	SECTION LINE
	INTERIOR SECTION LINE
	CENTERLINE GRAVEL ACCESS ROAD
	ACCESS ROAD EASEMENT LIMITS
	SWD FACILITY
	EXISTING GRAVEL ROAD
℄	PROPERTY LINE

THE CENTERLINE LENGTH OF THE EASEMENT SHOWN HEREON FOUNDATION MINERALS, LLC, MAVROS MINERALS, LLC & OAK VALLEY MINERAL AND LAND, LP PROPERTY IS 1,747 FEET (105.9 RODS).

THE TOTAL AREA OF THE PROPOSED EASEMENT SHOWN HEREON IS 52,420 SQUARE FEET ±1.20 ACRES.

NOTES:

1. THIS EXHIBIT AND LEGAL DESCRIPTION WERE PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND THEREFORE ENCOMPASS ENERGY SERVICES HAS NOT RESEARCHED OR SHOWN ANY OTHER EASEMENTS, RIGHTS-OF-WAY, VARIANCES AND OR AGREEMENTS OF RECORD. ALL OWNERSHIP INFORMATION WAS PROVIDED BY THE CLIENT.

2. THIS EXHIBIT AND LEGAL DESCRIPTION ARE NOT A LAND DIVISION PLAT, OR AN IMPROVEMENT SURVEY PLAT.

3. SEE ATTACHED LEGAL DESCRIPTION WHICH BY THIS REFERENCE IS MADE PART HEREOF.

4. BEARING AND DISTANCES SHOWN ARE GRID VALUES DERIVED FROM GPS OBSERVATIONS IN U.S. SURVEY FEET.

3 BEAR DELAWARE OPERATING - NM, LLC

ACCESS ROAD

LANDOWNER: FOUNDATION MINERALS, LLC
MAVROS MINERALS, LLC
OAK VALLEY MINERALS AND LAND, LP
IN A PART OF THE SW 1/4 OF SECTION 4, TOWNSHIP 24 SOUTH,
RANGE 27 EAST, NEW MEXICO P.M., EDDY COUNTY, NEW MEXICO

SCALE: 1"=500'	DRAWN BY: JG 01/24/2019	CHECKED BY: TC 01/24/2019	REV: 1

encompass
ENCOMPASS ENERGY SERVICES
350 INTERLOCKEN BLVD.
SUITE 350
BROOMFIELD, CO. 80021

DWG NO. 61551_FOUNDATION MINERALS ACCESS RD_REV1

CENTER LINE OF AN ACCESS ROAD DESCRIPTION:

A STRIP OF LAND FOR AN ACCESS ROAD ON A PARCEL OF LAND OWNED BY FOUNDATION MINERALS, LLC, MAVROS MINERLAS, LLC AND OAK VALLEY MINERAL AND LAND, LP AND IS LOCATED IN A PART OF THE SW 1/4 OF SECTION 4, TOWNSHIP 24 SOUTH, RANGE 27 EAST, OF THE NEW MEXICO PRINCIPAL MERIDIAN, COUNTY OF EDDY, STATE OF NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A 30 FEET WIDE STRIP OF LAND BEING 15 FEET ON EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE SW CORNER OF SAID SECTION 4, (AS MONUMENTED BY A FOUND 1.5" ALUMINUM CAP WITH NO PS#), FROM WHICH THE NW CORNER OF SAID SECTION 4, (AS MONUMENTED BY A FOUND #5 REBAR), BEARS N 00°42'26" E, A DISTANCE OF 5,360.39 FEET, FORMING THE **BASIS OF BEARINGS** USED IN THIS DESCRIPTION;

THENCE, N 24°05'47" E, A DISTANCE OF 466.79 FEET TO A POINT ON THE NORTHERLY EDGE OF A EXISTING GRAVEL ROAD, SAID POINT BEING THE **POINT OF BEGINNING**;

THENCE ALONG SAID CENTERLINE, N 00°14'04" W A DISTANCE OF 1,746.67 FEET TO A POINT ON THE SOUTHERLY LINE OF A PROPOSED FACILITY SITE, SAID POINT BEING THE **POINT OF TERMINUS**, FROM WHICH THE SAID NW CORNER OF SECTION 4 BEARS N 02°06'26" W A DISTANCE OF 3,189.37 FEET.

THE SIDE LINES OF SAID STRIP OF LAND ARE LENGTHENED OR SHORTENED TO TERMINATE AT THE EXISTING GRAVEL ROAD AND ON THE PROPOSED FACILITIES SITE BOUNDARY.

THE TOTAL CENTERLINE LENGTH OF THE ABOVE DESCRIBED ACCESS ROAD IS 1,747 FEET(105.9 RODS) CONTAINING AN AREA OF 52,420 SQUARE FEET, OR APPROXIMATELY 1.20 ACRES, MORE OR LESS.

SURVEYOR'S STATEMENT:

I, THOMAS G. CARLSON, A NEW MEXICO PROFESSIONAL SURVEYOR, HEREBY STATE THAT THIS LEGAL DESCRIPTION AND ACCOMPANYING EXHIBIT WERE PREPARED FROM AN ACTUAL GROUND SURVEY PERFORMED UNDER MY SUPERVISION, THAT THIS LEGAL DESCRIPTION AND EXHIBIT ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF AND THAT THE FIELD SURVEY ON WHICH IT IS BASED MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO AND THAT THIS LEGAL DESCRIPTION AND EXHIBIT ARE NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT.



THOMAS G. CARLSON, NM PS #22896
FOR AND ON BEHALF OF ENCOMPASS ENERGY SERVICES, LLC

NOTES:
1. THIS LEGAL DESCRIPTION AND EXHIBIT WERE PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND THEREFORE ENCOMPASS ENERGY SERVICES HAS NOT RESEARCHED OR SHOWN ANY OTHER EASEMENTS, RIGHTS-OF-WAY, VARIANCES AND OR AGREEMENTS OF RECORD. ALL OWNERSHIP INFORMATION WAS PROVIDED BY THE CLIENT.

2. THIS LEGAL DESCRIPTION AND EXHIBIT ARE NOT A LAND DIVISION PLAT, OR AN IMPROVEMENT SURVEY PLAT.

3. SEE ATTACHED EXHIBIT WHICH BY THIS REFERENCE IS MADE PART HEREOF.

4. BEARING AND DISTANCES SHOWN ARE GRID VALUES DERIVED FROM GPS OBSERVATIONS IN U.S. SURVEY FEET.

3 BEAR DELAWARE OPERATING - NM, LLC

ACCESS ROAD

LANDOWNER: FOUNDATION MINERALS, LLC
MAVROS MINERALS, LLC
OAK VALLEY MINERALS AND LAND, LP
IN A PART OF THE SW 1/4 OF SECTION 4, TOWNSHIP 24 SOUTH,
RANGE 27 EAST, NEW MEXICO P.M., EDDY COUNTY, NEW MEXICO

SCALE: NONE	DRAWN BY: JG 01/24/2019	CHECKED BY: TC 01/24/2019	REV: 1

encompass
ENCOMPASS ENERGY SERVICES
350 INTERLOCKEN BLVD.
SUITE 350
BROOMFIELD, CO. 80021

DWG NO. 61551_FOUNDATION MINERALS ACCESS RD_REV1

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

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-015-45047

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name: FOUNDATION MINERALS FEE SWD (321564)

1. Type of Well: Oil Well [ ] Gas Well [X] Other SWD

8. Well Number 1

2. Name of Operator: 3BEAR FIELD SERVICES, LLC

9. OGRID Number: 372603

3. Address of Operator

10. Pool name or Wildcat: SWD; DEVONIAN-SILURIAN

4. Well Location
Unit Letter L : 2368 feet from the SOUTH line and 166 feet from the WEST line
Section 4 Township 24 Range 27 NMPM EDDY County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3176

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[X]	COMMENCE DRILLING OPNS.	[ ]	P AND A	[ ]
PULL OR ALTER CASING	[ ]	MULTIPLE COMPL	[ ]	CASING/CEMENT JOB	[ ]		
DOWNHOLE COMMINGLE	[ ]						
CLOSED-LOOP SYSTEM	[ ]						
OTHER:	[ ]			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.

LOCATION CHANGE

FROM: 2309 FSL/366 FWL
TO: 2368 FSL/166 FWL
C-102 Attached

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 Jennifer Elrod TITLE SR. REGULATORY TECH DATE 01/18/2019

Type or print name JENNIFER ELROD E-mail address: jelrod@chisholmenergy.com PHONE: 817-953-3728

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	[2] Pool Code	[3] Pool Name
30-015-45047	97869	SWD; SILURIAN-DEVONIAN

[4] Property Code	[5] Property Name	[6] Well Number
321564	FOUNDATION MINERALS FEE SWD 1	1

[7] OGRID No.	[8] Operator Name	[9] Elevation
372603	3BEAR FIELD SERVICES, LLC	3176'

[10] Surface Location

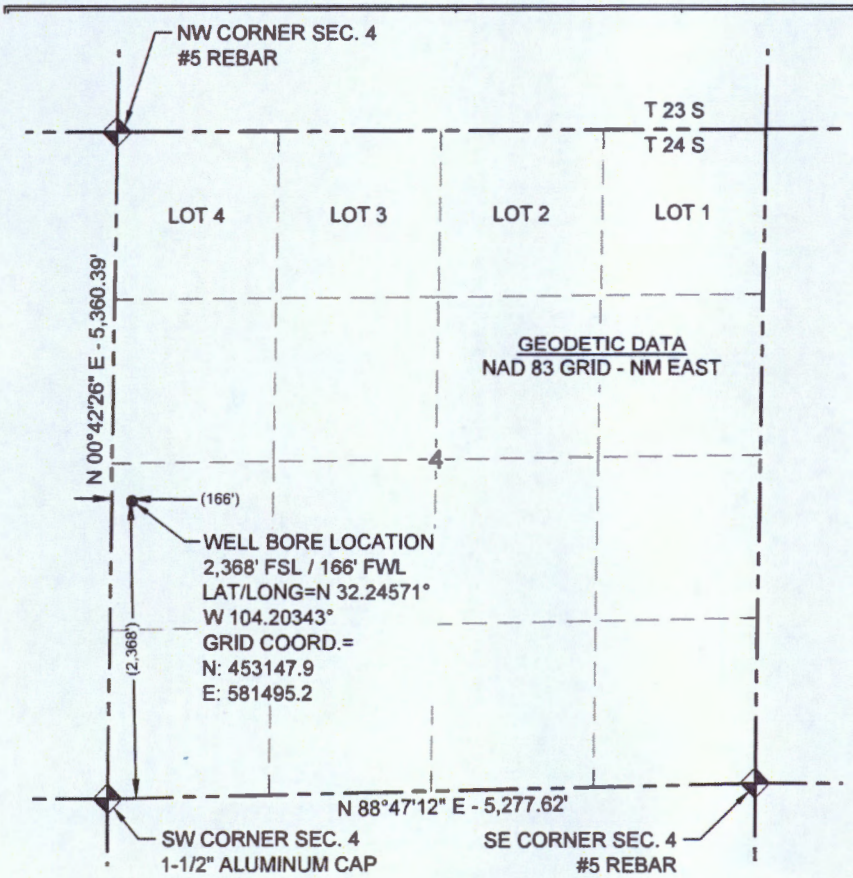
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
SW 1/4 L	4	24S	27E		2,368	SOUTH	166	WEST	EDDY

[11] 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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] 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.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jennifer Elrod — 01/18/2019
Signature — Date

JENNIFER ELROD
Printed Name

JELROD@CHISHOLMENERGY.COM
E-mail Address

[18] 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.

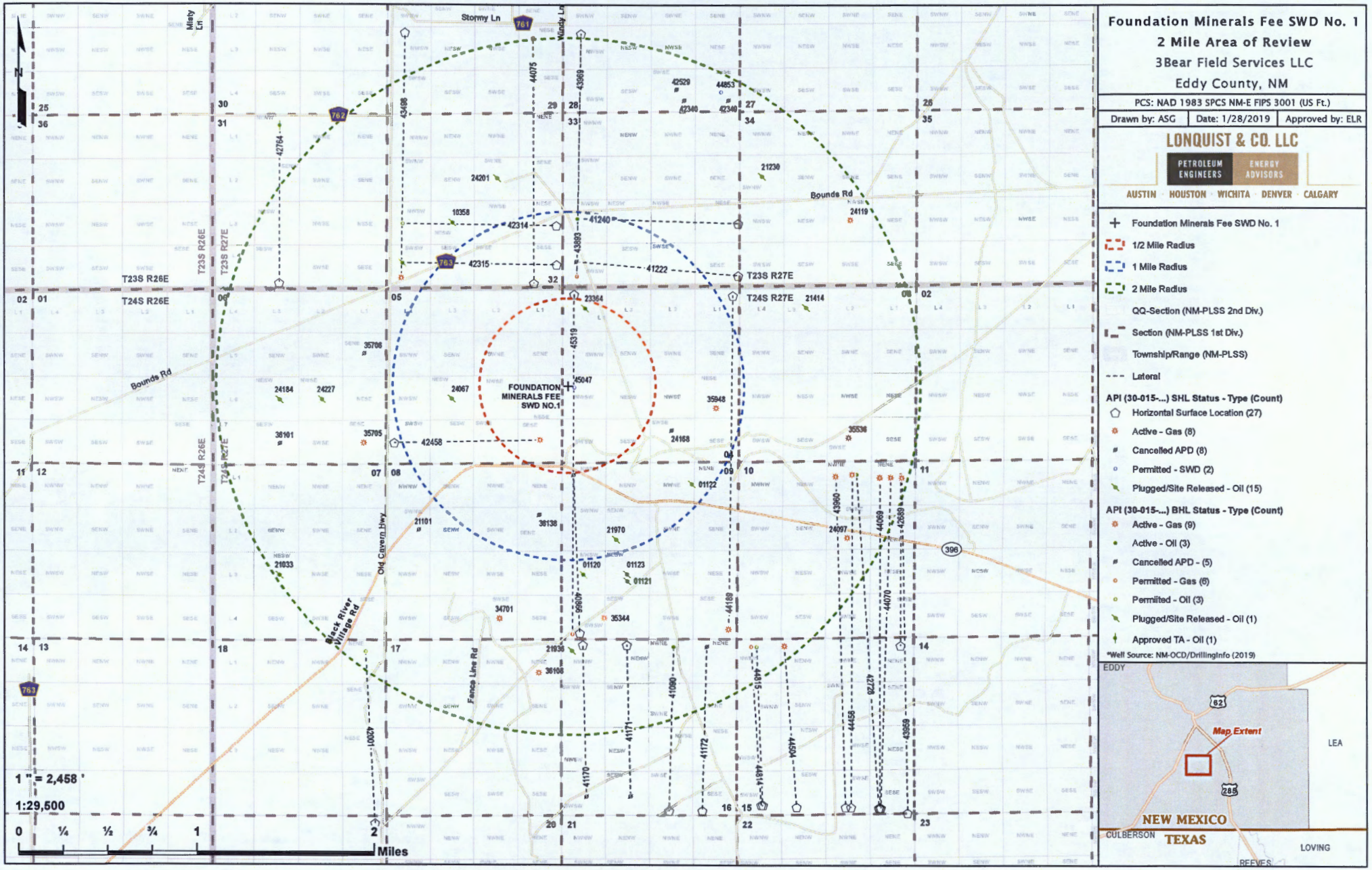
SURFACE LOCATION ONLY

1/7/19
Date of Survey

Signature and Seal of Professional Surveyor:

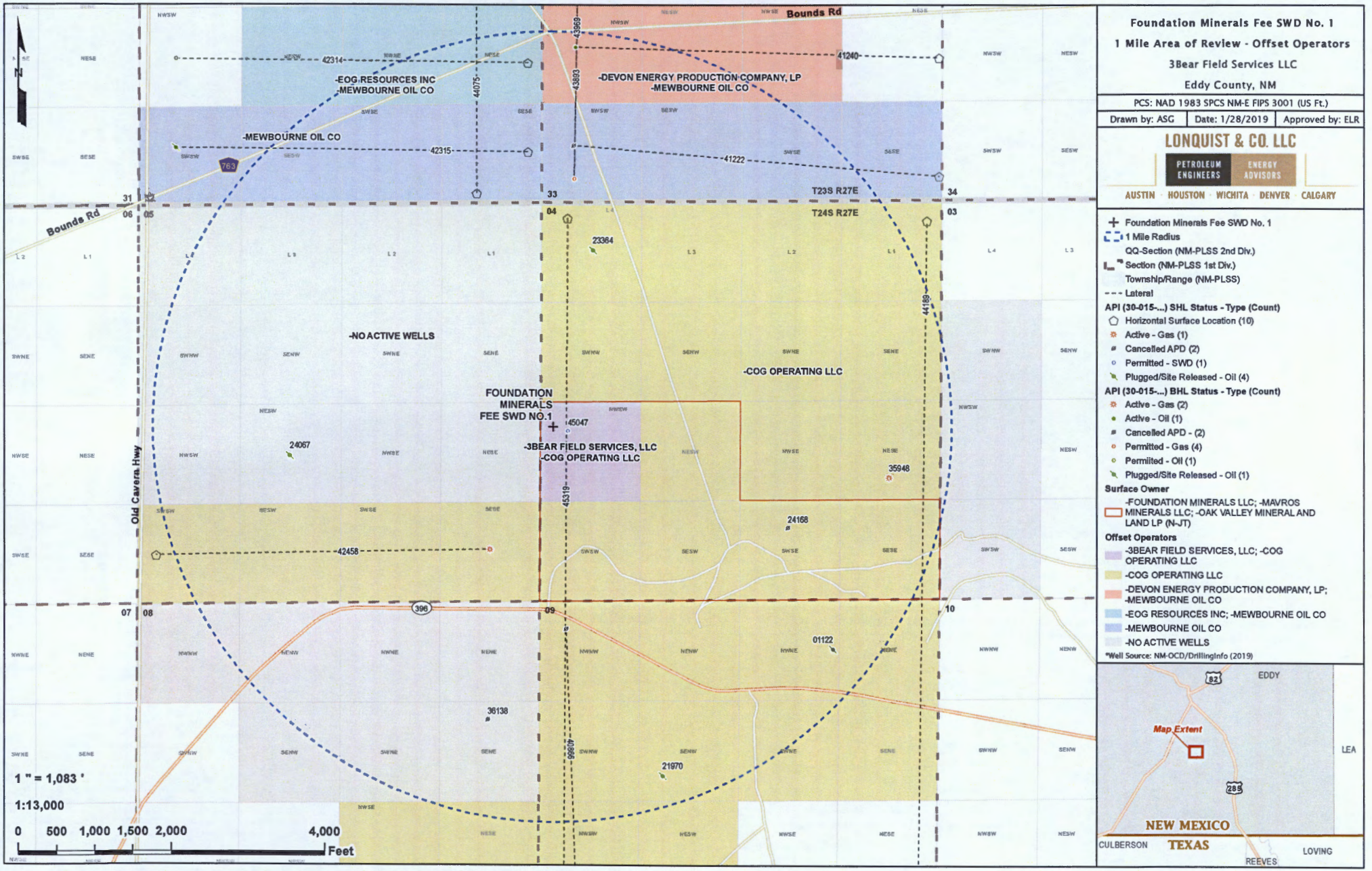
THOMAS G. CARLSON
NEW MEXICO
22896
PROFESSIONAL SURVEYOR
1-9-19

22896
Certificate Number


Foundation Minerals Fee SWD No. 1
2 Mile Area of Review
3Bear Field Services LLC
Eddy County, NM
PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)
Drawn by: ASG
Date: 1/28/2019
Approved by: ELR
LONQUIST & CO. LLC
PETROLEUM ENGINEERS
ENERGY ADVISORS
AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY
Foundation Minerals Fee SWD No. 1
1/2 Mile Radius
1 Mile Radius
2 Mile Radius
QQ-Section (NM-PLSS 2nd Div.)
Section (NM-PLSS 1st Div.)
Township/Range (NM-PLSS)
Lateral
API (30-015-...) SHL Status - Type (Count)
Horizontal Surface Location (27)
Active - Gas (8)
Cancelled APD (8)
Permitted - SWD (2)
Plugged/Site Released - Oil (15)
API (30-015-...) BHL Status - Type (Count)
Active - Gas (9)
Active - Oil (3)
Cancelled APD - (5)
Permitted - Gas (6)
Permitted - Oil (3)
Plugged/Site Released - Oil (1)
Approved TA - Oil (1)
*Well Source: NM-OCD/DrillingInfo (2019)
FOUNDATION MINERALS FEE SWD NO.1
Stormy Ln
Windy Ln
Misty Ln
Bounds Rd
Old Cavern Hwy
Black River Village Rd
Fence Line Rd
T23S R26E
T24S R26E
T23S R27E
T24S R27E
T24S R28E
1 " = 2,458 '
1:29,500
0 ¼ ½ ¾ 1 2 Miles
EDDY
LEA
CULBERSON
LOVING
REEVES
NEW MEXICO
TEXAS
Map Extent

Foundation Minerals FEE SWD No. 1
1 Mile Area of Review List

API (30-015-...)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	DATE DRILLED
01122	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.23754120000	-104.19144440000	1/1/1900
21970	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.23291400000	-104.19875340000	1/1/1900
23364	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.25217060000	-104.20172120000	1/1/1900
24067	BLACK RIVER SWD #001	O	P	COG OPERATING LLC	12500	32.24462890000	-104.21473690000	12/31/9999
24168	PRE-ONGARD WELL #001	O	C	PRE-ONGARD WELL OPERATOR	0	32.24200600680	-104.19337463200	12/31/9999
35948	BAT BOY STATE COM #001	G	A	COG OPERATING LLC	12550	32.24384690000	-104.18904110000	5/5/2008
36138	JALAPENO 8 FEDERAL COM #001	O	C	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.23496189690	-104.20622562800	12/31/9999
40866	LONG NOSE #002H	O	C	COG OPERATING LLC	0	32.22517010000	-104.20229340000	12/31/9999
41222	LONE RANGER 33 STATE #001H	O	C	DEVON ENERGY PRODUCTION COMPANY, LP	9	32.25489430000	-104.18688960000	12/31/9999
41240	LONE RANGER 33 STATE #002H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	7345	32.25923920000	-104.18688960000	1/2/2014
42314	COLOSSAL BUO STATE #001H	O	N	EOG Y RESOURCES, INC.	0	32.25905990000	-104.20448300000	12/31/9999
42315	COLOSSAL BUO STATE #002	O	P	MEWBOURNE OIL CO	175	32.25579070000	-104.20448300000	5/29/2014
42458	BLACK RIVER STATE #004H	G	A	COG OPERATING LLC	9648	32.24097060000	-104.22036740000	8/31/2014
43969	HOLLYWOOD 28 33 W2LM FEDERAL COM #001H	G	N	MEWBOURNE OIL CO	0	32.27510904000	-104.20206456000	12/31/9999
44075	VIPER 32 29 W2PI FEDERAL COM #001H	G	N	MEWBOURNE OIL CO	0	32.25426055000	-104.20668092000	12/31/9999
44189	ROADSTER STATE COM #001H	G	A	COG OPERATING LLC	9195	32.25326210000	-104.18741700000	12/23/2017
45047	FOUNDATION MINERALS FEE SWD #001	S	N	3BEAR FIELD SERVICES, LLC	0	32.24556000000	-104.20279000000	12/31/9999
45319	ROADSTER STATE COM #808H	G	N	COG OPERATING LLC	0	32.25335000000	-104.20278800000	12/31/9999



Foundation Minerals Fee SWD No. 1

1 Mile Area of Review - Offset Operators

3Bear Field Services LLC

Eddy County, NM

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

Drawn by: ASG	Date: 1/28/2019	Approved by: ELR

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- Foundation Minerals Fee SWD No. 1
- 1 Mile Radius
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Lateral

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

- Horizontal Surface Location (10)
- Active - Gas (1)
- Cancelled APD (2)
- Permitted - SWD (1)
- Plugged/Site Released - Oil (4)

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

- Active - Gas (2)
- Active - Oil (1)
- Cancelled APD - (2)
- Permitted - Gas (4)
- Permitted - Oil (1)
- Plugged/Site Released - Oil (1)

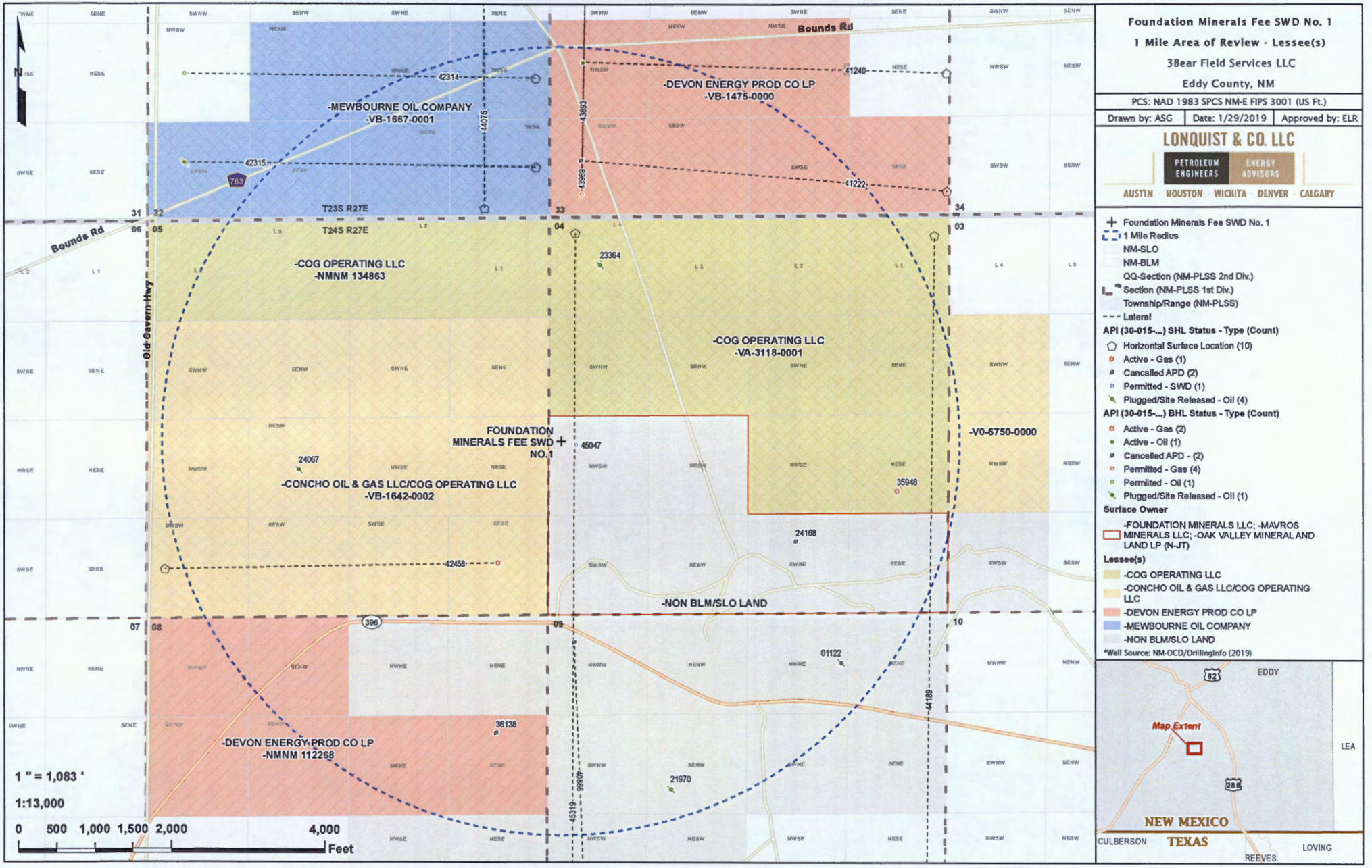
Surface Owner

- -FOUNDATION MINERALS LLC; -MAVROS MINERALS LLC; -OAK VALLEY MINERAL AND LAND LP (N-JT)

Offset Operators

- -3BEAR FIELD SERVICES, LLC; -COG OPERATING LLC
- -COG OPERATING LLC
- -DEVON ENERGY PRODUCTION COMPANY, LP; -MEWBOURNE OIL CO
- -EOG RESOURCES INC; -MEWBOURNE OIL CO
- -MEWBOURNE OIL CO
- -NO ACTIVE WELLS

*Well Source: NM-OCD/DrillingInfo (2019)


Foundation Minerals Fee SWD No. 1
1 Mile Area of Review - Lessee(s)
3Bear Field Services LLC
Eddy County, NM
PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)
Drawn by: ASG
Date: 1/29/2019
Approved by: ELR
LONQUIST & CO. LLC
PETROLEUM ENGINEERS
ENERGY ADVISORS
AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY
Bounds Rd
Old Cavern Hwy
T23S R27E
T24S R27E
-MEWBOURNE OIL COMPANY
-VB-1667-0001
-DEVON ENERGY PROD CO LP
-VB-1475-0000
-COG OPERATING LLC
-NMNM 134863
-COG OPERATING LLC
-VA-3118-0001
FOUNDATION MINERALS FEE SWD NO.1
-CONCHO OIL & GAS LLC/COG OPERATING LLC
-VB-1642-0002
-V0-6750-0000
-NON BLM/SLO LAND
-DEVON ENERGY PROD CO LP
-NMNM 112268
42314
41240
42315
41222
42458
45047
24067
23364
35948
24168
01122
36138
21970
1 " = 1,083 '
1:13,000
0 500 1,000 1,500 2,000 4,000
Feet
Foundation Minerals Fee SWD No. 1
1 Mile Radius
NM-SLO
NM-BLM
QQ-Section (NM-PLSS 2nd Div.)
Section (NM-PLSS 1st Div.)
Township/Range (NM-PLSS)
Lateral
API (30-015-...) SHL Status - Type (Count)
Horizontal Surface Location (10)
Active - Gas (1)
Cancelled APD (2)
Permitted - SWD (1)
Plugged/Site Released - Oil (4)
API (30-015-...) BHL Status - Type (Count)
Active - Gas (2)
Active - Oil (1)
Cancelled APD - (2)
Permitted - Gas (4)
Permitted - Oil (1)
Plugged/Site Released - Oil (1)
Surface Owner
-FOUNDATION MINERALS LLC; -MAVROS MINERALS LLC; -OAK VALLEY MINERAL AND LAND LP (N-JT)
Lessee(s)
-COG OPERATING LLC
-CONCHO OIL & GAS LLC/COG OPERATING LLC
-DEVON ENERGY PROD CO LP
-MEWBOURNE OIL COMPANY
-NON BLM/SLO LAND
*Well Source: NM-OCD/DrillingInfo (2019)
EDDY
LEA
Map Extent
NEW MEXICO
TEXAS
CULBERSON
REEVES
LOVING

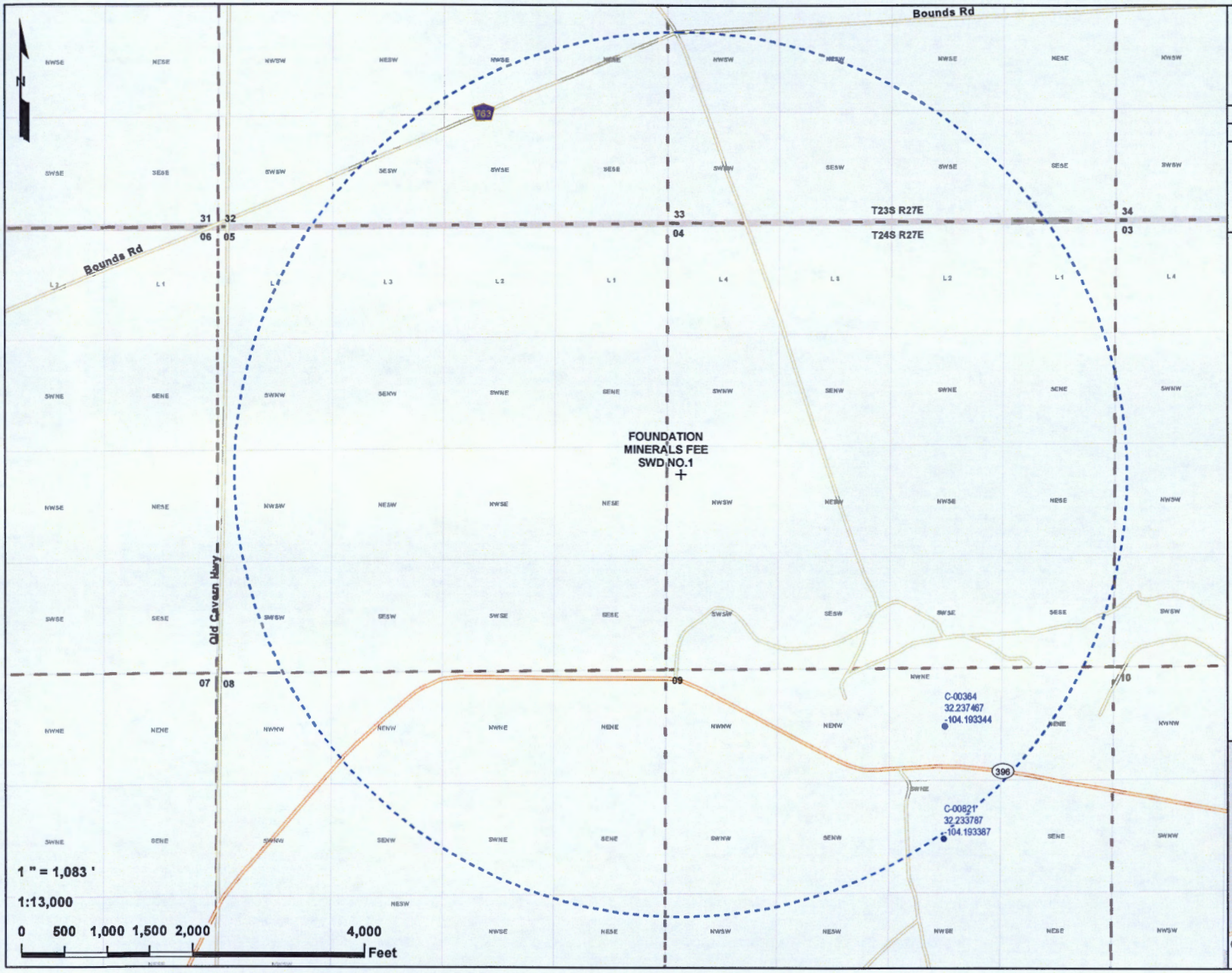
Foundation Minerals FEE SWD No. 1
1 Mile Offset Operators and Lessees List

S/T/R	QQ UNIT LETTER(S)	OPERATOR	MINERAL LESSEE	MINERAL OWNER	SURFACE OWNER	ADDRESS 1	ADDRESS 2
32/23S/27E	J,K,L	EOG RESOURCES INC	-	PRIVATE	-	P.O. BOX 2267	MIDLAND, TX 79702
	I,J,K,M,N,O,P	MEWBOURNE OIL CO	-	PRIVATE	-	P.O. BOX 5270	HOBBS, NM 88241
	I,J,K,M,N,O,P	-	MEWBOURNE OIL CO	SLO	-	P. O. BOX 7698	TYLER, TX 75711
33/23S/27E	J,K,L	DEVON ENERGY PRODUCTION COMPANY, LP	-	PRIVATE	-	20 N BROADWAY	OKLAHOMA CITY , OK 73102
	M,N,O,P	MEWBOURNE OIL CO	-	PRIVATE	-	P.O. BOX 5270	HOBBS, NM 88241
	J,K,L,M,N,O,P	-	DEVON ENERGY PRODUCTION COMPANY, LP	SLO	-	333 W. SHERIDAN AVENUE	OKLAHOMA CITY, OK 73102
03/24S/27E	E,L	-	CONCHO OIL & GAS LLC/COG OPERATING LLC	SLO	-	ONE CONCHO CENTER, 600 W. ILLINOIS AVENUE	MIDLAND, TX 79701
04/24S/27E	L	3BEAR FIELD SERVICES, LLC	-	PRIVATE	-	500 DON GASPAR AVE.	SANTA FE, NM 87505
	ENTIRE SECTION	COG OPERATING LLC	-	PRIVATE	-	550 W TEXAS	MIDLAND , TX 79701
	A,B,C,D,E,F,G,H,I,J	-	COG OPERATING LLC	SLO	-	600 W ILLNOIS AVE	MIDLAND, TX 79701
05/24S/27E	M,N,O,P	COG OPERATING LLC	-	PRIVATE	-	550 W TEXAS	MIDLAND , TX 79701
	E,F,G,H,I,J,K,L,M,N,O,P	-	CONCHO OIL & GAS LLC/COG OPERATING LLC	SLO	-	ONE CONCHO CENTER, 600 W. ILLINOIS AVENUE	MIDLAND, TX 79701
	A,B,C,D	-	COG OPERATING LLC	BLM	-	600 W ILLINOIS AVE	MIDLAND TX 797014882
08/24S/27E	I,J	COG OPERATING LLC	-	PRIVATE	-	550 W TEXAS	MIDLAND , TX 79701
	C,D,F,G,H	-	DEVON ENERGY PROD CO LP	BLM	-	333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
09/24S/27E	A,B,C,D,E,F,G,H,L,K	COG OPERATING LLC	-	PRIVATE	-	550 W TEXAS	MIDLAND , TX 79701
Surface Location	K,L,M,N,O,P	-	-	-	FOUNDATION MINERALS LLC/ MAVROS MINERALS LLC/ OAK VALLEY MINERAL AND LAND LP (N-JT)	PO BOX 50820	MIDLAND, TX 79710

Foundation Minerals Fee SWD No. 1

Produced Water Samples

Well Name	API	Section	Township	Range	Unit	County	Formation	ph	tds_mgL	sodium_mgL	calcium_mgL	iron_mgL	magnesium_mgL	manganese_mgL	chloride_mgL	bicarbonate_mgL	sulfate_mgL	co2_mgL
CRAWFORD #001	3001501121	9	24S	27E	K	EDDY	DELAWARE		95055						58570	95	187	
ST HAMILTON #001	3001501126	15	24S	27E	M	EDDY	DELAWARE		301812						189600	192	2040	
DOC HOLLIDAY 32 STATE COM #001	3001541145	32	24S	27E	D	EDDY	BONE SPRING 2ND SAND	6.7	193316.3	59944.7	8287.7	63.6	1065.9	1.03	120600	170.8	17	350
PREACHER 19 FEDERAL #003H	3001541887	19	24S	27E	O	EDDY	BONE SPRING 2ND SAND	6.5	193786.1	67996.2	3049.5	50	455.6	0	119000	130	34	300
PREACHER 19 FEDERAL #003H	3001541887	19	24S	27E	O	EDDY	BONE SPRING 2ND SAND	7	177819.6	60298.5	5557.4	49.5	721.3	0	108940.6	366	0	470
JOSEY WALES 16 STATE COM #003H	3001541090	16	24S	27E	O	EDDY	BONE SPRING 2ND SAND	6.47	179419.7	56191	7263	34	907	0.8	112857	146.4	573	350
DOC HOLLIDAY 32 STATE COM #001	3001541145	32	24S	27E	D	EDDY	BONE SPRING 2ND SAND	6.3	205799.3	64141.4	9202.6	68.4	1164.7	1.1	128748.7	122	17	430
PREACHER 19 FEDERAL #003H	3001541887	19	24S	27E	O	EDDY	BONE SPRING 2ND SAND	5.8	203717.6	70834.8	3255.7	51	483.4	0	125604.7	144	34	360
JOSEY WALES 16 STATE COM #003H	3001541090	16	24S	27E	O	EDDY	BONE SPRING 2ND SAND	7.6	176588.8	56605.8	7257.2	41.9	919.6	0	109722	146	0	430
DOC HOLLIDAY 32 STATE COM #001	3001541145	32	24S	27E	D	EDDY	BONE SPRING 2ND SAND	7.3	197760.1	61580.1	8480.7	68.7	1113.9	1.11	123849.8	146	0	430
DOC HOLLIDAY 32 STATE COM #001	3001541145	32	24S	27E	D	EDDY	BONE SPRING 2ND SAND	7.3	127681.6	43933.7	2003.8	31.4	394.2	0	77098	195.2	0	50
PREACHER 19 FEDERAL #003H	3001541887	19	24S	27E	O	EDDY	BONE SPRING 2ND SAND	7.4	312558	120501	1427.3	43.3	362.7	0	186000	201.4	3947	180
PREACHER 19 FEDERAL #003H	3001541887	19	24S	27E	O	EDDY	BONE SPRING 2ND SAND	7.4	312550	120501	1427.3	43.3	362.7	0	186000	201.4	0	180
JOSEY WALES 16 STATE COM #003H	3001541090	16	24S	27E	O	EDDY	BONE SPRING 2ND SAND	6.5	179141.4	59469	7527.1	41	943.9	0	109122.7	73.2	0	250
DOC HOLLIDAY 32 STATE COM #001	3001541145	32	24S	27E	D	EDDY	BONE SPRING 2ND SAND	7	203230.2	65823.6	9280.1	59.4	1154	1.17	124268.5	48.8	0	300
HABANERO 17 FEDERAL COM #001H	3001536108	17	24S	27E	A	EDDY	WOLFCAMP	6.5	108205	35110.8	4480.2	28.5	627.9	0.61	65927.2	146	0	300
WHITE CITY PENN GAS COM UNIT 1 #001	3001500408	29	24S	26E	A	EDDY	WOLFCAMP	7		6000	990	0	130		10000	645	1320	
SERRANO 29 FEDERAL #001H	3001537763	29	24S	27E	H	EDDY	WOLFCAMP	6.9	102136.2	30415.1	5311.5	40.2	643.7	1.47	62812.7	183	0	350
SERRANO 29 FEDERAL #001H	3001537763	29	24S	27E	H	EDDY	WOLFCAMP	6.5	100994.9	28702.1	5341.9	46.2	619.5	1.46	63450.1	268	0	350
LEE J FED #001	3001505973	18	24S	26E	J	EDDY	WOLFCAMP	8.1							9100		7300	
BRADLEY FEDERAL #006	3001500386	11	24S	26E	I	EDDY	SAN ANDRES	8.5	10492						5070	618	413	
BRADLEY #007	3001500385	11	24S	26E	O	EDDY	SAN ANDRES	8.8	6811						2948	429	887	
FED D #002	3001500389	12	24S	26E	P	EDDY	ATOKA		60623									
R.S. STATE #001	3001501132	27	24S	27E	N	EDDY	PENNSYLVANIAN		48387						26570	1505	2263	
O'NEILL FEDERAL #001	3001520301	11	24S	26E	L	EDDY	MORROW	5.7	123887	49189.7	2808	351			81000	368.28	81	



Foundation Minerals Fee SWD No. 1

1 Mile - Water Wells

3Bear Field Services LLC

Eddy County, NM

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

Drawn by: ASG	Date: 1/29/2019	Approved by: ELR

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- Foundation Minerals Fee SWD No. 1
- 1 Mile Radius
- Water Well (2) [NM-OSE 2019]
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)

Note 1: All coordinates shown are in NAD 83 (DD)

Sources: Water Well Data - NM-OSE (2019)



New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: C 00364 **Subbasin:** CUB **Cross Reference:** -

Primary Purpose: CLS CLOSED FILE

Primary Status: CLS CLOSED FILE

Total Acres: **Subfile:** -

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

Owner: A.J. CRAWFORD

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	465076	CLOSE	1956-09-14	CLS	CLS	RENUM O-2-E-32	T	0	0	0

Place of Use

Q 256	Q 64	Q 16	Q 4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0	0	0	CLS		CLS	OIL WELL - NO PLACE OF USE

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.

Foundation Minerals SWD No. 1	
3Bear Field Services, LLC	
COUNTY CLERK	**MAILING ADDRESS**
OIL CONSERVATION DIVISION DISTRICT IV	1220 S. St. Francis Dr., Santa Fe, NM 87505
OIL CONSERVATION DIVISION DISTRICT II	811 S. First St., Artesia, NM 88210
SURFACE LANDOWNER	**MAILING ADDRESS**
FOUNDATION MINERALS LLC	P.O. Box 50820, Midland, TX 79701
MARVOS MINERALS LLC	P.O. Box 50820, Midland, TX 79701
OAK VALLEY MINERAL AND LAND LP (N-JT)	P.O. Box 50820, Midland, TX 79701
OFFSET OPERATORS	**MAILING ADDRESS**
EOG RESOURCES INC.	P.O. BOX 2267, MIDLAND, TX 79702
MEWBOURNE OIL CO.	P.O. BOX 5270, HOBBS, NM 88241
DEVON ENERGY PRODUCTION COMPANY, LP	20 N BROADWAY, OKLAHOMA CITY, OK 73102
COG OPERATING LLC	550 W TEXAS, MIDLAND, TX 79701
MINERAL LESSEE	**MAILING ADDRESS**
MEWBOURNE OIL CO.	P.O. BOX 7698, TYLER, TX 75711
DEVON ENERGY PRODUCTION COMPANY, LP	333 W. SHERIDAN AVE., SANTA FE, NM 87505
CONCHO OIL & GAS LLC/COG OPERATING LLC	ONE CONCHO CENTER, 600 W. ILLINOIS AVENUE, MIDLAND, TX 79701
COG OPERATING LLC	600 W ILLINOIS AVE, MIDLAND, TX 79701

Notices were sent on 1/31/2019 for the Foundation Minerals SWD #1 application by mailing them a copy of the Form C-108.

Sincerely,

Ramona K Hovey 2/6/19

Ramona K. Hovey
Sr. Petroleum Engineer / Lonquist & Co., LLC
For 3Bear Field Services, LLC

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 S FRANCIS DR
SANTA FE NM 87505
1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9948 39

2. Article Number (Transfer from service label)

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

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A. Signature

X ☐ Agent ☐ Addressee

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3. Service Type

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- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
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Postage
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Street a

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OIL CONSERVATION DIVISION
DISTRICT IV
1220 S FRANCIS DR
SANTA FE NM 87505
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1. Article Addressed to:

OIL CONSERVATION DIVISION
DISTRICT II
811 S FIRST STREET
ARTESIA, NM 88210
1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9948 22

2. Article Number *(Transfer from service label)*

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A. Signature

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

D. Is delivery address different from item 1? ☐ Yes
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3. Service Type

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- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
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City,

OIL CONSERVATION DIVISION
DISTRICT II
811 S FIRST STREET
ARTESIA, NM 88210
1892-FOUNDATION MINERALS #1

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1. Article Addressed to:

FOUNDATION MINERALS LLC
PO BOX 50820
MIDLAND TX 79701

1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9948 15

2. Article Number *(Transfer from service label)*
7018 1830 0000 8887 8469

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A. Signature
X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* | C. Date of Delivery

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

3. Service Type
- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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FOUNDATION MINERALS LLC
PO BOX 50820
MIDLAND TX 79701

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1. Article Addressed to:

MARVOS MINERALS LLC
PO BOX 50820
MIDLAND TX 79701

1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9948 08

2. Article Number *(Transfer from service label)*
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A. Signature
X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* | C. Date of Delivery

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

3. Service Type
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- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
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- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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MARVOS MINERALS LLC
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MIDLAND TX 79701

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1. Article Addressed to:

OAK VALLEY MINERALS LLC
PO BOX 50820
MIDLAND TX 79701

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9590 9402 4693 8323 9947 92

2. Article Number *(Transfer from service label)*
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A. Signature
X ☐ Agent ☐ Addressee

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D. Is delivery address different from Item 1? ☐ Yes
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3. Service Type
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- ☐ Adult Signature Restricted Delivery
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- ☐ Collect on Delivery Restricted Delivery
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MIDLAND TX 79701

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1. Article Addressed to:

EOG RESOURCES INC
PO BOX 2267
MIDLAND TX 79702

1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9947 85

2. Article Number *(Transfer from service label)*

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A. Signature

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B. Received by *(Printed Name)* | C. Date of Delivery

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EOG RESOURCES INC
PO BOX 2267
MIDLAND TX 79702

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1. Article Addressed to:

MEWBOURNE OIL CO
PO BOX 5270
HOBBS NM 88241

1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9947 78

2. Article Number *(Transfer from service label)*
7018 1830 0000 8887 8506

COMPLETE THIS SECTION ON DELIVERY

A. Signature
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☐ Agent
☐ Addressee

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

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

3. Service Type
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☐ Adult Signature Restricted Delivery
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☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
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MEWBOURNE OIL CO
PO BOX 5270
HOBBS NM 88241

1892-FOUNDATION MINERALS #1

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1. Article Addressed to:

DEVON ENERGY PROD. CO. LP
20 N BROADWAY
OKLAHOMA CITY OK 73102

1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9947 61

2. Article Number *(Transfer from service label)*
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COMPLETE THIS SECTION ON DELIVERY

A. Signature
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B. Received by *(Printed Name)* C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
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3. Service Type
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☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
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DEVON ENERGY PROD. CO. LP
20 N BROADWAY
OKLAHOMA CITY OK 73102

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1. Article Addressed to:

COG OPERATING LLC
550 W TEXAS
MIDLAND, TX 79701

1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9947 54

2. Article Number (Transfer from service label)
7018 1830 0000 8887 8520

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A. Signature
X ☐ Agent ☐ Addressee

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

D. Is delivery address different from item 1? ☐ Yes
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3. Service Type
- ☑ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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- ☐ Registered Mail™
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- ☐ Signature Confirmation™
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total P
$

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Street

City, S

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COG OPERATING LLC
550 W TEXAS
MIDLAND, TX 79701

1892-FOUNDATION MINERALS #1

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

SENDER: *COMPLETE THIS SECTION*

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

1. Article Addressed to:

MEWBOURNE OIL CO.
PO BOX 7698
TYLER TX 75711

1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9947 47

2. Article Number *(Transfer from service label)*
7018 1830 0000 8887 8537

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? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
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- ☐ Registered Mail Restricted Delivery
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

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OFFICIAL USE

Certified Mail Fee
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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total
$

Postmark Here

Sent
Street
City,

MEWBOURNE OIL CO.
PO BOX 7698
TYLER TX 75711

1892-FOUNDATION MINERALS #1

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

SENDER: *COMPLETE THIS SECTION*

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DEVON ENERGY PROD CO LP
333 W SHERIDAN AVE
SANTA FE NM 87505

1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9947 16

2. Article Number *(Transfer from service label)*

7018 1830 0000 8887 8568

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? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
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- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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7018 1830 0000 8887 8568

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OFFICIAL USE

Certified Mail Fee
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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total P
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Street a

City, St

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DEVON ENERGY PROD CO LP
333 W SHERIDAN AVE
SANTA FE NM 87505

1892-FOUNDATION MINERALS #1

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

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CONCHO OIL & GAS LLC
COG OPERATING LLC
600 W ILLINOIS AVE
MIDLAND, TX 79701
1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9947 23

2. Article Number (Transfer from service label)
7018 1830 0000 8887 8551

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? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
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- ☐ Adult Signature Restricted Delivery
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- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

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City, Sta

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CONCHO OIL & GAS LLC
COG OPERATING LLC
600 W ILLINOIS AVE
MIDLAND, TX 79701
1892-FOUNDATION MINERALS #1

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

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1. Article Addressed to:

COG OPERATING LLC
600 W ILLINOIS AVE
MIDLAND, TX 79701

1892-FOUNDATION MINERALS #1

9590 9402 4693 8323 9947 30

2. Article Number (Transfer from service label)
7018 1830 0000 8887 8544

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? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
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- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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- ☐ Registered Mail™
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

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- ☐ Certified Mail Restricted Delivery $
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- ☐ Adult Signature Restricted Delivery $

Postage
$

Total
$

Postmark Here

Sent
Street
City,

COG OPERATING LLC
600 W ILLINOIS AVE
MIDLAND, TX 79701

1892-FOUNDATION MINERALS #1

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

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

January 30, 2019

COG Operating, LLC
600 W Illinois Ave.
Midland, TX 79701

RE: FOUNDATION MINERALS 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 3Bear Field Services, LLC's (3Bear") Foundation Minerals SWD No. 1. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. For the purpose of this application, the notice parties have been extended outwards to a one-mile radius of the proposed injection well.

According to the New Mexico Oil Conservation Division, surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date in which this application was mailed to them.

Any questions should be directed towards 3Bear Field Services, LLC's agent Lonquist & Co., LLC.

Regards,

Stephen L. Pattee, P.G.
Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

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

January 30, 2019

COG Operating LLC
550 W. Texas
Midland, TX 79701

RE: FOUNDATION MINERALS SWD NO. 1 AUTHORIZATION TO INJECT

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Regards,

Stephen L. Pattee, P.G.
Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

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

January 30, 2019

Concho Oil & Gas, LLC / COG Operating LLC
One Concho Center
600 W. Illinois Avenue
Midland, TX 79701

RE: FOUNDATION MINERALS SWD NO. 1 AUTHORIZATION TO INJECT

To Whom It May Concern:

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Regards,

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Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

January 30, 2019

Devon Energy Production Company, LP
333 W. Sheridan Ave.
Santa Fe, NM 87505

RE: FOUNDATION MINERALS 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 3Bear Field Services, LLC's (3Bear") Foundation Minerals SWD No. 1. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. For the purpose of this application, the notice parties have been extended outwards to a one-mile radius of the proposed injection well.

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Regards,

Stephen L. Pattee, P.G.
Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

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

January 30, 2019

Devon Energy Production Company, LP
20 N. Broadway
Oklahoma City, OK 73102

RE: FOUNDATION MINERALS SWD NO. 1 AUTHORIZATION TO INJECT

To Whom It May Concern:

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Regards,

Stephen L. Pattee, P.G.
Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

January 30, 2019

EOG Resources Inc.
P.O. Box 2267
Midland, TX 79702

RE: FOUNDATION MINERALS SWD NO. 1 AUTHORIZATION TO INJECT

To Whom It May Concern:

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Regards,

Stephen L. Pattee, P.G.
Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

January 30, 2019

Foundation Minerals LLC
P.O. Box 50820
Midland, TX 79701

RE: FOUNDATION MINERALS 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 3Bear Field Services, LLC's (3Bear") Foundation Minerals SWD No. 1. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. For the purpose of this application, the notice parties have been extended outwards to a one-mile radius of the proposed injection well.

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Any questions should be directed towards 3Bear Field Services, LLC's agent Lonquist & Co., LLC.

Regards,

Stephen L. Pattee, P.G.
Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

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

January 30, 2019

Marvos Minerals LLC
P.O. Box 50820
Midland, TX 79701

RE: FOUNDATION MINERALS 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 3Bear Field Services, LLC's (3Bear") Foundation Minerals SWD No. 1. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. For the purpose of this application, the notice parties have been extended outwards to a one-mile radius of the proposed injection well.

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Regards,

Stephen L. Pattee, P.G.
Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

January 30, 2019

Mewbourne Oil Co.
P.O. 5270
Hobbs, NM 88241

RE: FOUNDATION MINERALS SWD NO. 1 AUTHORIZATION TO INJECT

To Whom It May Concern:

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Regards,

Stephen L. Pattee, P.G.
Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

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

January 30, 2019

Mewbourne Oil Co.
P.O. Box 7698
Tyler, TX 75711

RE: FOUNDATION MINERALS SWD NO. 1 AUTHORIZATION TO INJECT

To Whom It May Concern:

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Regards,

Stephen L. Pattee, P.G.
Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

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

January 30, 2019

Oak Valley Mineral and Land LP
P.O. Box 50820
Midland, TX 79701

RE: FOUNDATION MINERALS SWD NO. 1 AUTHORIZATION TO INJECT

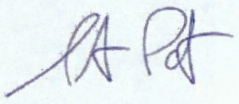
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Regards,



Stephen L. Pattee, P.G.
Vice President
Lonquist & Co., LLC

(512) 600-1774
steve@lonquist.com

FEB 12 2019 PM01:24

Foundation

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:

ANDREA ANTILLON
NEW MEXICO STATE LAND OFFICE
310 OLD SANTA FE TRAIL
PO BOX 1148
SANTA FE NM 87504-1148

9590 9402 4693 8323 9945 63

2. Article Number *(Transfer from service label)*
7017 2400 0001 0599 2629

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? ☐ Yes
If YES, enter delivery address below: ☐ No

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

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total
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City, S

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ANDREA ANTILLON
NEW MEXICO STATE LAND OFFICE
310 OLD SANTA FE TRAIL
PO BOX 1148
SANTA FE NM 87504-1148
1892 – FOUNDATION MINERALS

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

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Tracking Number: 70172400000105992629

Remove

Your item has been delivered and is available at a PO Box at 7:45 am on February 12, 2019 in SANTA FE, NM 87501.

Status

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Tracking History

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Feedback

February 11, 2019
In Transit to Next Facility

February 10, 2019, 2:15 am
Departed USPS Facility
ALBUQUERQUE, NM 87101

February 9, 2019, 1:43 pm
Arrived at USPS Facility
ALBUQUERQUE, NM 87101

February 7, 2019, 10:55 pm
Departed USPS Regional Facility
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February 7, 2019, 8:05 pm
Arrived at USPS Regional Facility
NORTH HOUSTON TX DISTRIBUTION CENTER

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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance ___X___Disposal _____Storage
Application qualifies for administrative approval? ___X___Yes _____No

II. OPERATOR: 3Bear Field Services, LLC

ADDRESS: 415 W. Wall St., Suite 1212

CONTACT PARTY: Kevin Burns PHONE: 432-686-2973

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: Ramona Hovey TITLE: Consulting Engineer – Agent for 3Bear Field Service

SIGNATURE: _____ DATE: 01/30/2019

E-MAIL ADDRESS: ramona@lonquist.com

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

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

Side 2

III. WELL DATA

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

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

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

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

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

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

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

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

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

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

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

Side 1

INJECTION WELL DATA SHEET

OPERATOR: 3Bear Field Services, LLC

WELL NAME & NUMBER: Foundation Minerals Fee SWD No. 1

WELL LOCATION:	2,368 FSL & 166' FWL	L	04	24S	27E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26.000"

Cemented with: 328 sacks

Top of Cement: surface

Casing Size: 20.00"

or __ ft³

Method Determined: circulation

Intermediate Casing

Hole Size: 17.500"

Cemented with: 442 sacks.

Top of Cement: surface

Casing Size: 13.375"

or __ ft³

Method Determined: circulation

Production Casing

Hole Size: 12.250"

Cemented with: 1,457 sacks

Top of Cement: surface

Casing Size: 9.625"

or __ ft³

Method Determined: circulation

Production Liner

Hole Size: 8.500"

Cemented with: 701 sacks.

Top of Cement 5,195'

Total Depth: 14,095'

Casing Size: 7.625"

or __ ft³

Method Determined: calculation

Injection Interval

13,195 feet to 14,095 feet

(Open Hole)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 17 lb/ft, HCL-80, BTC from 0' – 13,095'

Lining Material: Duoline

Type of Packer: 7-5/8" X 5-1/2" Permanent Packer with High Temperature Elastomer and Full Inconel 925 Trim

Packer Setting Depth: 13,095'

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

Additional Data

1. Is this a new well drilled for injection? ___X___ Yes _____ No

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

   _____

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

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

   No, new drill.

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

   Delaware: 2,150'
   Bone Spring: 5,485'
   Wolfcamp: 8,885'
   Strawn: 10,635'
   Atoka: 10,835'

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

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

RECEIVED
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DISTRICT II-ARTESIA O.C.D.

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

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

1. Operator Name and Address	2. OGRID Number
3Bear Field Services 415 W. Wall St., Suite 1212 Midland, TX 79701	372603
	3. API Number 30-~~025-~~ 015-45047

4. Property Code	5. Property Name	6. Well No.
321564	Foundation Minerals Fee SWD	1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
SW ¼	4	24S	27E		2,309	South	366	West	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	Pool Code
SWD; Silurian-Devonian	97869

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
N	SWD	R	Private	3,174'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	14,095	Devonian	TBD	ASAP

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water
N/A	3,210'	2,500'

☐ 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
Conductor	26"	20"	94.00 lb/ft	120'	328 sks	Surface
Intermediate 1	17.5"	13.375"	54.50 lb/ft	510'	442 sks	Surface
Intermediate 2	12.25	9.625"	40.00 lb/ft	5,495'	1,457 sks	Surface
Production	8.5"	7-5/8"	38.00 lb/ft	5,195'-13,195'	701 sks	5,195'
Tubing	N/A	5.5"	17 lb/ft	0'-13,095'	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 ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.
Signature: Tyler Moehlman

Printed name: Tyler Moehlman

Title: Consulting Engineer- Agent for 3Bear Field Services, LLC

E-mail Address: tyler.moehlman@lonquist.com

Date: 11/1/2018 Phone: 713-987-4144

OIL CONSERVATION DIVISION

Approved By: Raymond W. Podany

Title: Geologist

Approved Date: 11/13/18 Expiration Date: 11/13/2020

Conditions of Approval Attached Approved C-108.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
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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	[2] Pool Code	[3] Pool Name
30-015-45047	97869	SWD; SILURIAN-DEVONIAN

[4] Property Code	[5] Property Name	[6] Well Number
321564	FOUNDATION MINERALS FEE SWD 1	1

[7] OGRID No.	[8] Operator Name	[9] Elevation
372603	3BEAR FIELD SERVICES, LLC	3176'

[10] Surface Location

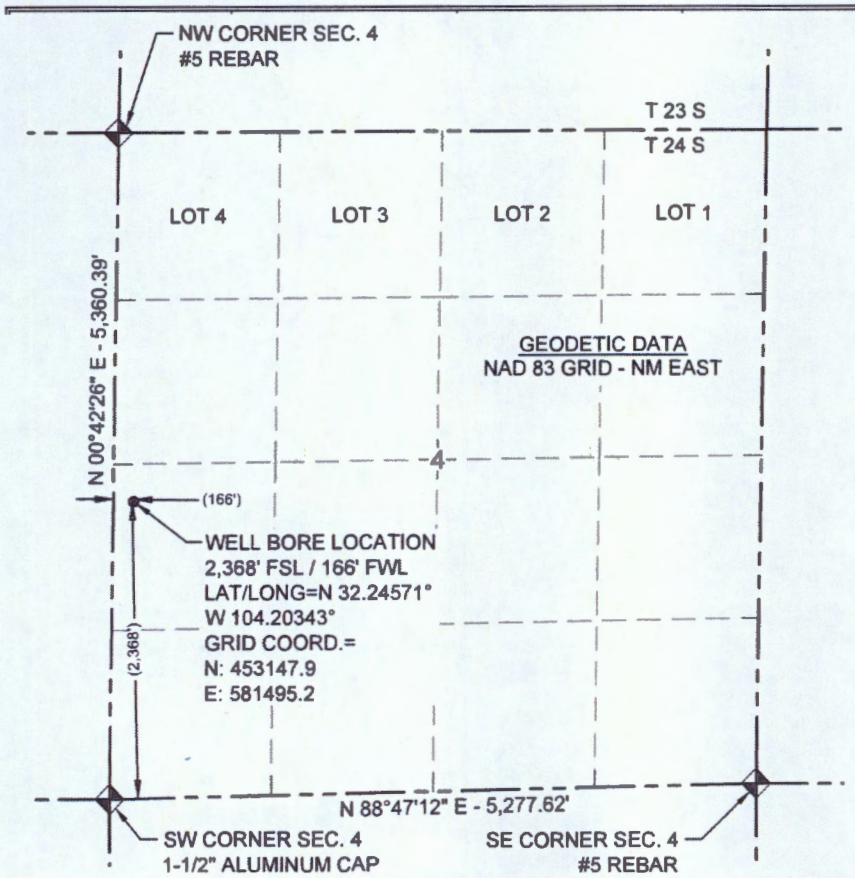
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
SW 1/4 L	4	24S	27E		2,368	SOUTH	166	WEST	EDDY

[11] 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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] 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.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jennifer Elrod — 01/18/2019
Signature — Date

JENNIFER ELROD
Printed Name

JELROD@CHISHOLMENERGY.COM
E-mail Address

[18] 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.

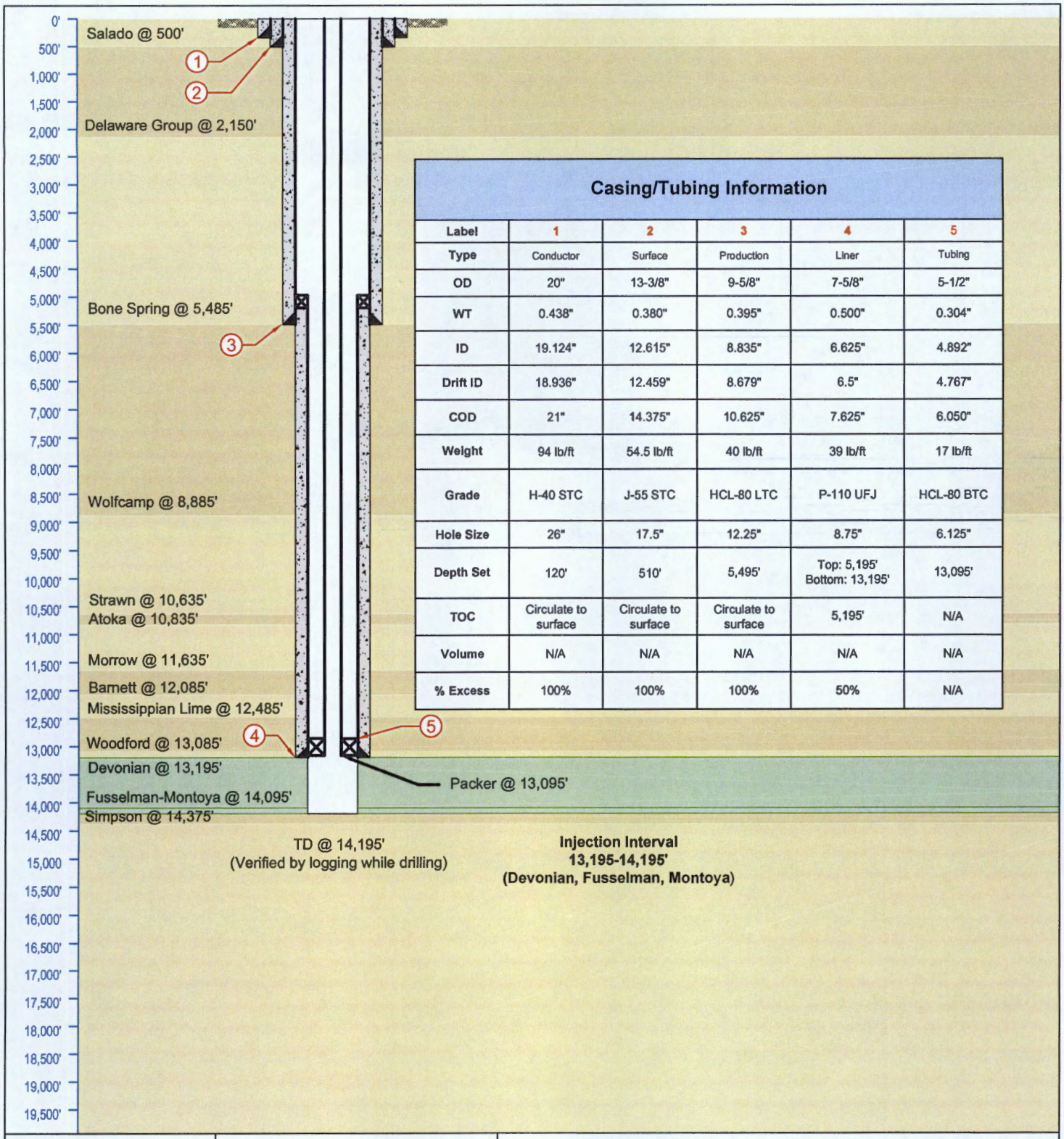
SURFACE LOCATION ONLY

1/7/19
Date of Survey

Signature and Seal of Professional Surveyor:

THOMAS G. CARLSON
NEW MEXICO
22896
1-9-19
PROFESSIONAL SURVEYOR

22896
Certificate Number



Casing/Tubing Information

Label	1	2	3	4	5
Type	Conductor	Surface	Production	Liner	Tubing
OD	20"	13-3/8"	9-5/8"	7-5/8"	5-1/2"
WT	0.438"	0.380"	0.395"	0.500"	0.304"
ID	19.124"	12.615"	8.835"	6.625"	4.892"
Drift ID	18.936"	12.459"	8.679"	6.5"	4.767"
COD	21"	14.375"	10.625"	7.625"	6.050"
Weight	94 lb/ft	54.5 lb/ft	40 lb/ft	39 lb/ft	17 lb/ft
Grade	H-40 STC	J-55 STC	HCL-80 LTC	P-110 UFJ	HCL-80 BTC
Hole Size	26"	17.5"	12.25"	8.75"	6.125"
Depth Set	120'	510'	5,495'	Top: 5,195' Bottom: 13,195'	13,095'
TOC	Circulate to surface	Circulate to surface	Circulate to surface	5,195'	N/A
Volume	N/A	N/A	N/A	N/A	N/A
% Excess	100%	100%	100%	50%	N/A

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

Texas License F-9147

12912 Hill Country Blvd. Ste F-200
Austin, Texas 78738
Tel: 512.732.9812
Fax: 512.732.9816

3Bear Field Services, LLC	Foundation Minerals Fee SWD No. 1	
Country: USA	**State/Province:** New Mexico	**County/Parish:** Eddy
Location:	**Site:** 2,368 FSL, 166 FWL	**Survey:** S4-T24S-R27E
API No: N/A	**Field:**	**Well Type/Status:** SWD
NMOCD District No: 1	**Project No:**	**Date:** 01/28/2019
Drawn: TFM	**Reviewed:**	**Approved:**
Rev No: 1	**Notes:**	

3Bear Energy

3Bear Field Services, LLC

Foundation Minerals Fee SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Foundation Minerals Fee SWD
Well No.	1
Location	S-4 T-24S R-27E
Footage Location	2,368' FSL & 166' FWL

2.

a. Wellbore Description

Casing Information				
Type	Conductor	Surface	Production	Liner
OD	20"	13-3/8"	9-5/8"	7-5/8"
WT	0.438"	0.380"	0.395"	0.500"
ID	19.124"	12.615"	8.835"	6.625"
Drift ID	18.936"	12.459"	8.679"	6.500"
COD	21"	14.375"	10.625"	7.625"
Weight	94 lb/ft	54.5 lb/ft	40 lb/ft	39 lb/ft
Grade	H-40 STC	J-55 STC	HCL-80 LTC	P-110 UFJ
Hole Size	26"	17.5"	12.25"	8.5"
Depth Set	120'	510'	5,495'	5,195'-13,195'

b. Cementing Program

Cement Information				
Casing String	Conductor	Surface	Production	Liner
Lead Cement	Class H	HalCem	Stage 1: NeoCem Stage 2: NeoCem Stage 3: ExtendaCem	VERSACEM w/ gas migration control additives
Lead Cement Volume	328 sks	310 sks	Stage 1: 262 sks Stage 2: 549 sks Stage 3: 263 sks	701 sks
Tail Cement	-	HalCem	Stage 1: HalCem Stage 2: HalCem	Halcem
Tail Cement Volume	-	132 sks	Stage 1: 350 sks Stage 2: 33 sks	
Cement Excess	100%	100%	100%	50%
TOC	Surface	Surface	Surface	5,195'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

OD	5.5"
WT	0.304"
ID	4.892"
Drift ID	4.767"
COD	6.050"
Weight	17 lb/ft
Grade	HCL-80 BTC
Depth Set	0'-13,095'

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, Fusselman, Montoya (Top 100')

2. Gross Injection Interval: 13,195'-14,195'

   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	2,150'
Bone Spring	5,485'
Wolfcamp	8,885'
Strawn	10,635'
Atoka	10,835'

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: 20,000 BPD
   Maximum Volume: 25,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

   Average Injection Pressure: 1,980 PSI (surface pressure)
   Maximum Injection Pressure: 2,639 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 Artesia, Bone Spring, Delaware, San Andreas, Morrow, and Pennsylvanian, and Wolfcamp.

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

VIII. Geological Data

Devonian Formation Lithology:

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

Fusselman Formation Lithology:

The Silurian/Ordovician Fusselman Formation is stratigraphically below the Wristen Group and is above and separated from the Montoya Formation by the Sylvan Shale. The Sylvan Shale is the lower confining layer for the proposed Foundation Minerals SWD No. 1 well. Fusselman facies include a laminated skeletal wackestone in the upper part and a buildup complex in the lower part composed of ooid and bryozoan grainstones. These grainstones can also be potentially prolific zones for disposal.

Montoya Formation Lithology:

The Montoya Group of Late Ordovician age unconformably overlies the Simpson Group. The Montoya is composed of light gray to medium-dark gray, fine- to medium-crystalline, calcareous dolomite, some units of which are interbedded with shale or dark-gray limestone and some units of which contain white to very light-gray chert. The Montoya carbonate limestone dolomite sequence is dense, impermeable, and non-porous.

A. Injection Zone: Siluro-Devonian Formation

Formation	Depth
Salado	500'
Delaware	2,150'
Bone Spring	5,485'
Wolfcamp	8,885'
Strawn	10,635'
Atoka	10,835'
Morrow	11,635'
Barnett	12,085'
Mississippian Lime	12,485'
Woodford	13,085'
Devonian	13,195'
Fusselman	14,095'
Simpson	14,375'

B. Underground Sources of Drinking Water

One water well exists within one mile of the proposed well. Across the area, fresh water wells are usually drilled between 50' and 300' in depth. The Rustler is known to exist in this general area and may also be another USDW and will be protected through the top of the Salado Formation at 500' by setting surface casing at 510'.

IX. Proposed Stimulation Program

No stimulation program planned.

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

Attached is a map of the one (1) water well that exist within one mile of the well location. Samples from the well have been obtained and analysis results will be provided as soon as possible. A Water Right Summary from the New Mexico Office of the State Engineer is attached for water well C-00364.