

# LONQUIST & CO. LLC

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February 11, 2020

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: BEAR TRACKER SWD NO. 1 AUTHORIZATION TO INJECT  
UPDATED WELL LOCATION and NOTICE PARTY DETERMINATION  
3BEAR FIELD SERVICES, LLC**

To Whom It May Concern:

To accommodate the operations of an offset oil and gas operator, 3Bear Field Services, LLC (3Bear) is requesting to modify the proposed location to the following coordinates:

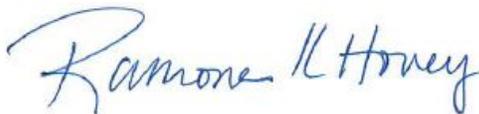
1,213' FNL, 2,096' FWL  
NW 1/4, SEC 16, T26S, R27E  
LAT 32.04629, LONG -104.19694 (NAD83)

The proposed surface hole location of the Bear Tracker SWD No. 1 well has been relocated approximately one thousand and four hundred feet from the previous location submitted to the New Mexico Oil Conservation Division on October 25, 2019. The new location is shown in the attached C-102.

The 1-Mile AOR was evaluated for offset wellbores penetrating the injection formation and to determine notice parties, the revised maps and list are attached. Relocation of the proposed wellbore resulted in no additional notice parties. The 1-Mile AOR remains void of wellbores penetrating the injection formation.

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

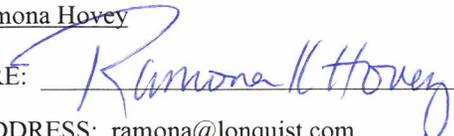
Regards,



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

(512) 600-1777  
[ramona@lonquist.com](mailto:ramona@lonquist.com)

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance \_\_\_\_\_  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? \_\_\_\_\_  Yes \_\_\_\_\_ No
- II. OPERATOR: 3Bear Field Services, LLC  
ADDRESS: 415 W. Wall St., Suite 1212  
CONTACT PARTY: Mike Solomon PHONE: 303-862-3962
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes \_\_\_\_\_  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Ramona Hovey TITLE: Consulting Engineer – Agent for 3Bear Field Service  
SIGNATURE:  DATE: 2/11/2019  
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

### III. WELL DATA

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

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

## INJECTION WELL DATA SHEET

OPERATOR: 3Bear Field Services, LLCWELL NAME & NUMBER: Bear Tracker SWD No. 1WELL LOCATION: 1,213' FNL & 2,096' FWL  
FOOTAGE LOCATIONC  
UNIT LETTER16  
SECTION26S  
TOWNSHIP27E  
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 26.000"Casing Size: 20.00"Cemented with: 5,146 sacks.*or* ft<sup>3</sup>Top of Cement: surfaceMethod Determined: circulation1<sup>st</sup> Intermediate CasingHole Size: 17.500"Casing Size: 13.375"Cemented with: 2,597 sacks.*or* ft<sup>3</sup>Top of Cement: surfaceMethod Determined: circulation2<sup>nd</sup> Intermediate CasingHole Size: 12.250"Casing Size: 9.625"Cemented with: 1,582 sacks.*or* ft<sup>3</sup>Top of Cement: surfaceMethod Determined: circulationProduction LinerHole Size: 8.500"Casing Size: 7.625"Cemented with: 465 sacks.*or* ft<sup>3</sup>Top of Cement: 8,700'Method Determined: loggedTotal Depth: 15,150'Injection Interval13,650 feet to 15,150 feet

(Open Hole)

**INJECTION WELL DATA SHEET**

Tubing Size: 5.5", 17 lb/ft, HCL-80, BTC from 0' – 13,600'

Lining Material: Duoline

Type of Packer: 7-5/8" X 5-1/2" Permanent Packer

Packer Setting Depth: 13,600'

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

3. Name of Field or Pool (if applicable): SWD; Devonian-Silurian (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: 2,158'

Bone Spring: 5,752'

Wolfcamp: 8,881'

Strawn: 11,271'

Atoka: 11,557'



**3Bear Field Services, LLC**

**Bear Tracker SWD No. 1**

**FORM C-108 Supplemental Information**

III. Well Data

**A. Wellbore Information**

1.

<b>Well information</b>	
<b>Lease Name</b>	Bear Tracker SWD
<b>Well No.</b>	1
<b>Location</b>	S-16 T-26S R-27E
<b>Footage Location</b>	1,213' FNL & 2,096' FWL

2.

**a. Wellbore Description**

<b>Casing Information</b>				
<b>Type</b>	Surface	Intermediate	Production	Liner
<b>OD</b>	20"	13.375"	9.625"	7.625"
<b>WT</b>	0.635"	0.514"	0.435"	0.500"
<b>ID</b>	18.730"	12.347"	8.755"	6.625"
<b>Drift ID</b>	18.542"	12.259"	8.599"	6.500"
<b>COD</b>	21"	14.375"	10.625"	7.625"
<b>Weight</b>	133 lb/ft	72 lb/ft	43.5 lb/ft	39 lb/ft
<b>Grade</b>	J-55 STC	HCP-110	HCL-80 LTC	P-110 UFJ
<b>Hole Size</b>	26"	17-1/2"	12-1/4"	8-1/2"
<b>Depth Set</b>	2,170'	5,580'	8,900'	8,700''-13,650'

### b. Cementing Program

Cement Information				
Casing String	Conductor	Intermediate 1	Intermediate 2	Liner
Lead Cement	HalCem	NeoCem	Stage 1: NeoCem Stage 2: VersaCem	VERSACEM w/ gas migration control additives
Lead Cement Volume	640 sks	2,129 sks	Stage 1: 312 sks Stage 2: 640 sks	465
Lead Cement Density	1.682 ft3/sk	2.767 ft3/sk	Stage 1: 2.731 ft3/sk Stage 2: 2.731 ft3/sk	1.223 f3/sk
Tail Cement	HalCem	HalCem	Stage 1: VersaCem Stage 2: VersaCem	
Tail Cement Volume	54 sks	468 sks	Stage 1: 577 sks Stage 2: 54 sks	
Tail Cement Density	1.347 ft3/sk	1.441 ft3/sk	Stage 1: 1.22 ft3/sk Stage 2: 1.334 ft3/sk	
Cement Excess	150%	75%	50%, 50%	50%
Total Sacks	5,146 sks	2,597 sks	1,582 sks	465 sks
TOC	Surface	Surface	Surface	8,700'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

### 3. Tubing Description

Tubing Information	
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	0-13,600'

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
2. Gross Injection Interval: 13,650'-15,150'

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	2,158'
Bone Spring	5,752'
Wolfcamp	8,881'
Strawn	11,271'
Atoka	11,557'

**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: 2,048 PSI (surface pressure)  
Maximum Injection Pressure: 2,730 PSI (surface pressure)

4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Bone Spring and Wolfcamp formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Bone Spring, Delaware, Morrow, Pennsylvanian, and Wolfcamp formations.
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 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.

#### A. Injection Zone: Devonian-Siliurian Formation

Formation	Depth
Salado	429'
Delaware	2,158'
Cherry Canyon	3,050'
Bone Spring	5,752'
Wolfcamp	8,881'
Strawn	11,271'
Atoka	11,557'
Morrow	12,016'
Mississippian Lime	13,297'
Woodford	13,521'
Devonian	13,650'
Fusselman	14,054'

#### B. Underground Sources of Drinking Water

Within 1-mile of the proposed Bear Tracker SWD #1 location, there is one water well. The water well has an unknown depth. Water wells in the surrounding area have an average depth of 98 ft and an average water depth of 28 ft. The upper Rustler may also be another USDW and will be protected.

#### **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. Sampling from this well was attempted but the well was dry and no samples were able to be recovered. A Water Right Summary from the New Mexico Office of the State Engineer is attached for water well RA-03587.

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

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

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

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

State of New Mexico

Form C-101  
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

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

<sup>1</sup> Operator Name and Address 3 BEAR FIELD SERVICES, LLC 415 W. WALL ST., STE 1212 MIDLAND, TEXAS 79701		<sup>2</sup> OGRID Number 372603
		<sup>3</sup> API Number 30-015-TBD
<sup>4</sup> Property Code	<sup>5</sup> Property Name BEAR TRACKER SWD	<sup>6</sup> Well No. 1

<sup>7</sup> Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
C	16	26S	27E		1,213	N	2,096	W	EDDY

<sup>8</sup> Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
-	-	-	-	-	-	-	-	-	-

<sup>9</sup> Pool Information

Pool Name SWD; Silurian-Devonian	Pool Code 97869
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Additional Well Information

<sup>11</sup> Work Type N	<sup>12</sup> Well Type SWD	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Private	<sup>15</sup> Ground Level Elevation 3,296.55
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 15,150'	<sup>18</sup> Formation Devonian	<sup>19</sup> Contractor TBD	<sup>20</sup> Spud Date ASAP
Depth to Ground water 28'		Distance from nearest fresh water well 3,938'		Distance to nearest surface water > 1 mile

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

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

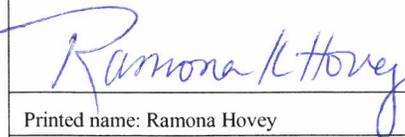
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Conductor	26"	20"	133 lb/ft	2,170'	5,146	Surface
Surface	17-1/2"	13-3/8"	72 lb/ft	5,580'	2,597	Surface
Production	12-1/4"	9-5/8"	43.5 lb/ft	8,900'	1,582	Surface
SurfLiner	8-1/2"	7-5/8"	39 lb/ft	8,700'-13,650'	465	8,700
Tubing	-	5.5"	17 lb/ft	13,600'		

Casing/Cement Program: Additional Comments

See attached schematic.

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

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

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. <b>I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/>, if applicable.</b> Signature:  Printed name: Ramona Hovey Title: Consulting Engineer E-mail Address: ramona@lonquist.com Date: February 11, 2019	OIL CONSERVATION DIVISION	
	Approved By:	
	Title:	
	Approved Date:	Expiration Date:
	Conditions of Approval Attached	

Phone: 512-600-1777

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1625 N. French Dr., Hobbs, NM 88240  
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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

<sup>1</sup> API Number		<sup>2</sup> Pool Code 97869		<sup>3</sup> Pool Name DEVONIAN-SILURIAN	
<sup>4</sup> Property Code		<sup>5</sup> Property Name BEAR TRACKER SWD			<sup>6</sup> Well Number
<sup>7</sup> OGRID No. 372603		<sup>8</sup> Operator Name 3BEAR FIELD SERVICES, LLC			<sup>9</sup> Elevation 3,294'

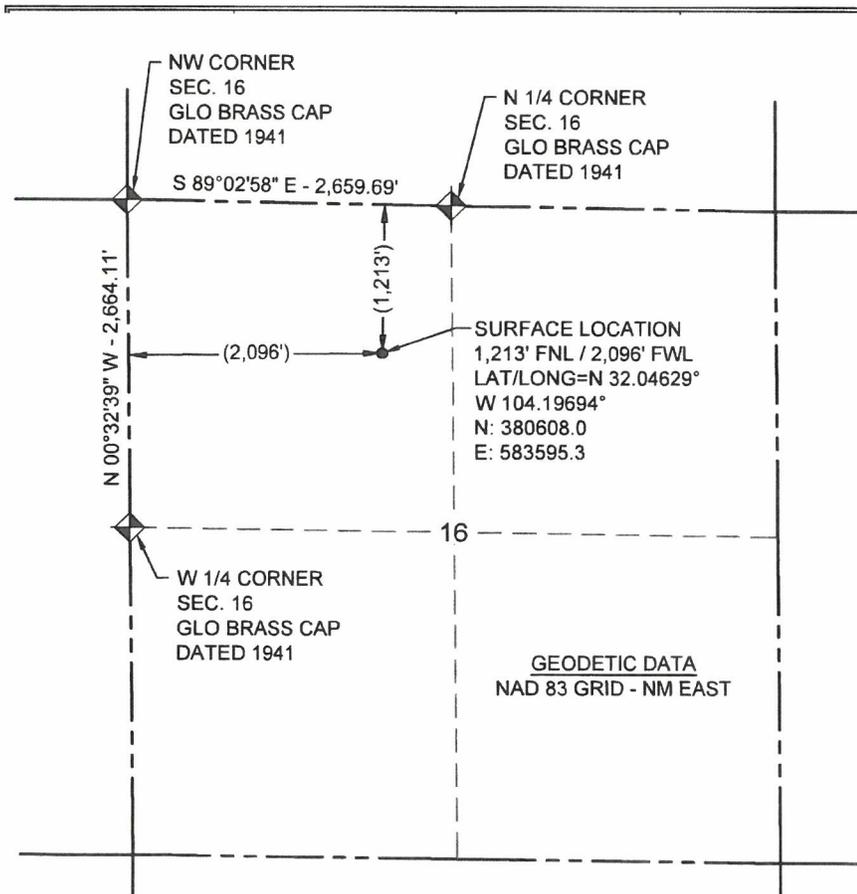
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
NW 1/4	16	26S	27E		1,213	NORTH	2,096	WEST	EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface

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

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



<sup>17</sup> 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.

*Ramona Hovey* 2/11/2020  
Signature Date

RAMONA HOVEY  
Printed Name

ramona@longquist.com  
E-mail Address

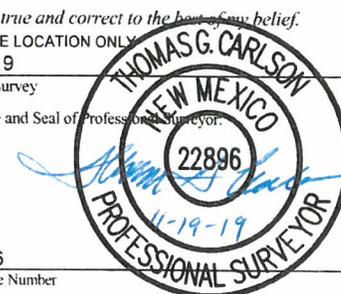
<sup>18</sup> SURVEYOR CERTIFICATION

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.

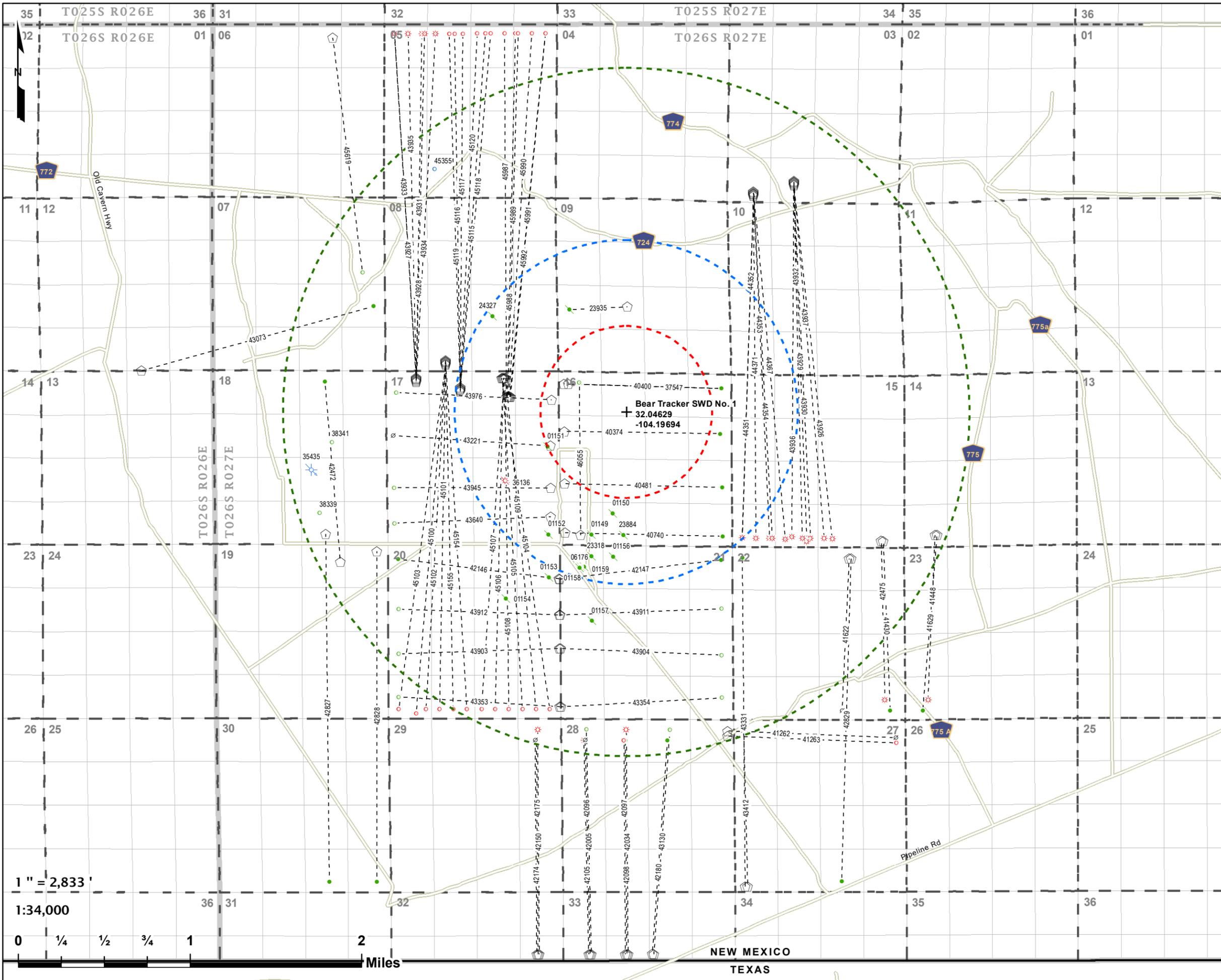
SURFACE LOCATION ONLY  
11/19/19

Date of Survey

Signature and Seal of Professional Surveyor



22896  
Certificate Number



**Bear Tracker SWD No. 1**

**2 Mile Area of Review**

3Bear Field Services LLC

Eddy Co., NM

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

Drawn by: SJL | Date: 11/22/2019 | Approved by: SLP

**LONQUIST & CO. LLC**

PETROLEUM ENGINEERS | ENERGY ADVISORS

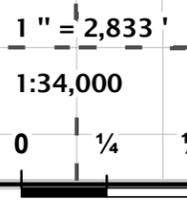
AUSTIN - HOUSTON | CALGARY - WICHITA  
DENVER - COLLEGE STATION | BATON ROUGE - EDMONTON

- + Bear Tracker 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]
- State Boundary
- Laterals

- API (30-015-...) SHL Status - Type (Count)**
- Horizontal Surface Location (87)
  - Permitted - Oil (2)
  - Permitted - Salt Water Disposal (1)
  - Plugged (Site Released) - Oil (14)
  - Plugged (Site Released) - Gas (1)
  - Plugged (Site Released) - Salt Water Disposal (1)

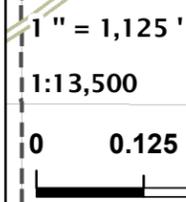
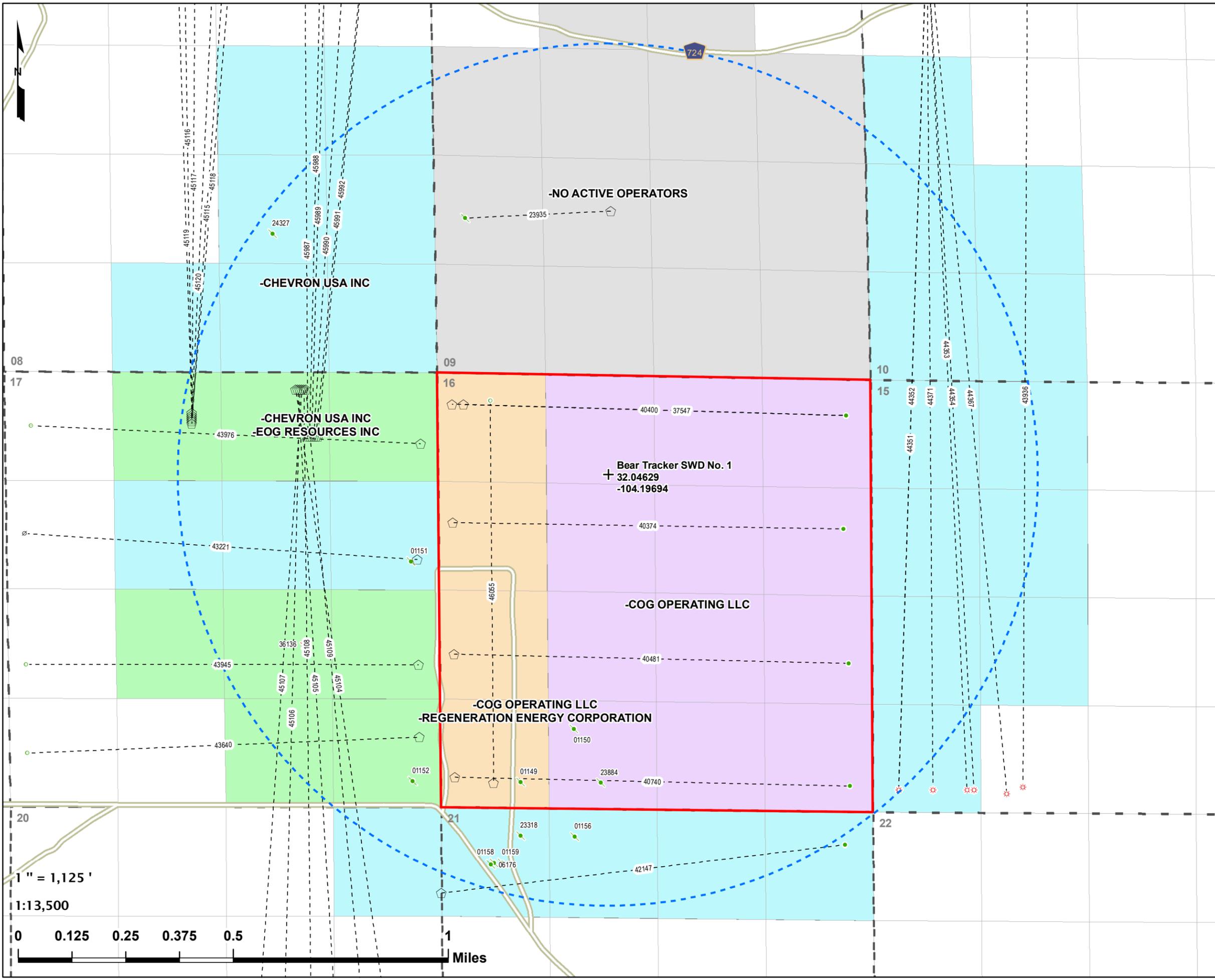
- API (30-015-...) BHL Status - Type (Count)**
- Active - Oil (18)
  - Active - Gas (23)
  - Permitted - Oil (13)
  - Permitted - Gas (26)
  - Plugged (Site Released) - Oil (1)
  - Canceled Location (6)

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



**Bear Tracker 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	FIELD
01149	WELCH UNIT #003	O	P	EL PASO NATURAL GAS CO	2236	32.03595350	-104.2004242	2/3/1958	[64030] WELCH, DELAWARE
01150	WELCH UNIT #008	O	P	EL PASO NATURAL GAS CO	2226	32.03774260	-104.1983109	4/1/1959	[64030] WELCH, DELAWARE
01151	WELCH UNIT #006	O	P	EL PASO NATURAL GAS CO	2300	32.04338070	-104.2047501	8/29/1958	[64030] WELCH, DELAWARE
01152	WELCH UNIT #009	O	P	EL PASO NATURAL GAS CO	2230	32.03598790	-104.2046890	8/28/1960	[64030] WELCH, DELAWARE
01156	WELCH UNIT #005	O	P	EL PASO NATURAL GAS CO	2175	32.03411480	-104.1982803	3/22/1958	[64030] WELCH, DELAWARE
01158	WELCH UNIT #001	O	P	EL PASO NATURAL GAS CO	12853	32.03324130	-104.2014771	4/18/1954	WILDCAT
01159	WELCH ABV FEDERAL #001	O	P	EOG Y RESOURCES, INC.	8000	32.03323750	-104.2011490	1/20/1985	[66052] EDDY UNDESIGNATED, GROUP 2
06176	WELCH UNIT #002	O	P	EL PASO NATURAL GAS CO	2115	32.03318020	-104.2015991	12/3/1957	[64030] WELCH, DELAWARE
23318	YATES FEDERAL #001	O	P	EOG Y RESOURCES, INC.	2500	32.03413770	-104.2004166	6/4/1980	[64030] WELCH, DELAWARE
23884	CHAPARRAL STATE #001	O	P	COLLIER ENERGY, INC.	2175	32.03591920	-104.1972351	9/16/1981	[64030] WELCH, DELAWARE
23935	HAY B FEDERAL #001	O	P	CIRCLE DIAMOND DRILLING, LLC	5840	32.05517200	-104.1968155	11/30/2006	[64010] WELCH, BONE SPRING; [97012] WC, DELAWARE; [97651] WC HAY HALLOW, DELAWARE,EAST
24327	FEDERAL "X" #001	O	P	CITIES SERVICE OIL & GAS CORPORATION	12900	32.05442050	-104.2102203	2/26/1982	WILDCAT
36136	BLAST BLA FEDERAL #001	G	P	EOG Y RESOURCES, INC.	12850	32.04053120	-104.2089844	11/7/2008	[97338] WC: MISSISSIPPIAN GAS; [97489] WILDCAT, WOLFCAMP GAS (ABOLISHED); [97744] WILDCAT S262717J, MORROW (GAS); [98220] PURPLE SAGE, WOLFCAMP (GAS)
37547	CLUSTER STATE COM #001H	O	A	COG OPERATING LLC	6240	32.04866790	-104.2026672	2/26/2010	[64010] WELCH, BONE SPRING
40374	CLUSTER STATE COM #003H	O	A	COG OPERATING LLC	7646	32.04468920	-104.2030869	6/27/2012	[64010] WELCH, BONE SPRING
40400	CLUSTER STATE COM #002H	O	A	COG OPERATING LLC	7637	32.04867550	-104.2031174	4/7/2013	[64010] WELCH, BONE SPRING
40481	CLUSTER STATE COM #004H	O	A	COG OPERATING LLC	7688	32.04026030	-104.2030487	11/21/2012	[64010] WELCH, BONE SPRING
40740	CLUSTER STATE COM #005H	O	A	COG OPERATING LLC	7560	32.03611760	-104.2030106	3/21/2013	[64010] WELCH, BONE SPRING
42147	BLAST BLA FEDERAL #003H	O	A	CHEVRON U S A INC	7633	32.03221890	-104.2035522	5/20/2014	[64010] WELCH, BONE SPRING
43221	BLAST BLA FEDERAL COM #011H	O	C	EOG Y RESOURCES, INC.	0	32.02364100	-104.1216160	-	[64010] WELCH, BONE SPRING
43640	BLAST BLA FEDERAL COM #013H	O	N	EOG RESOURCES INC	0	32.02148800	-104.1215950	-	[64010] WELCH, BONE SPRING
43936	CICADA UNIT #004H	G	A	CHEVRON U S A INC	9870	32.06554400	-104.1802720	3/22/2017	[98140] WC-015 S262714M, WOLFCAMP (GAS) (ABO); [98220] PURPLE SAGE, WOLFCAMP (GAS)
43945	BLAST BLA FEDERAL #012H	O	N	EOG RESOURCES INC	0	32.02236800	-104.1216030	-	[64010] WELCH, BONE SPRING
43976	BLAST BLA FEDERAL #010H	O	N	EOG RESOURCES INC	0	32.02504500	-104.1215740	-	[64010] WELCH, BONE SPRING
44351	CICADA UNIT #016H	G	A	CHEVRON U S A INC	9753	32.06466400	-104.1842690	2/25/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
44352	CICADA UNIT #018H	G	A	CHEVRON U S A INC	9211	32.05452600	-104.1842710	2/19/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
44353	CICADA UNIT #015H	G	A	CHEVRON U S A INC	9751	32.06473200	-104.1842670	2/25/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
44354	CICADA UNIT #017H	G	A	CHEVRON U S A INC	9235	32.06459500	-104.1842700	2/24/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
44367	CICADA UNIT #013H	G	A	CHEVRON U S A INC	10231	32.06487000	-104.1842640	2/27/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
44371	CICADA UNIT #014H	G	A	CHEVRON U S A INC	10153	32.06480100	-104.1842660	2/26/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45104	HH SO 17 20 FEDERAL 002 #001H	G	N	CHEVRON U S A INC	0	32.04916900	-104.2093030	5/5/2019	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45105	HH SO 17 20 FEDERAL 002 #002H	G	N	CHEVRON U S A INC	0	32.04916900	-104.2092220	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45106	HH SO 17 20 FEDERAL 002 #003H	G	N	CHEVRON U S A INC	0	32.04916800	-104.2091410	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45107	HH SO 17 20 FEDERAL 002 #004H	G	N	CHEVRON U S A INC	0	32.04916800	-104.2090600	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45108	HH SO 17 20 FEDERAL 002 #005H	G	N	CHEVRON U S A INC	0	32.04916800	-104.2089800	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45109	HH SO 17 20 FEDERAL 002 #006H	G	N	CHEVRON U S A INC	0	32.04916800	-104.2088990	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45115	HH SO 8 5 FED 003 #001H	G	N	CHEVRON U S A INC	0	32.04803400	-104.2134210	9/18/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45116	HH SO 8 5 FED 003 #002H	G	N	CHEVRON U S A INC	0	32.04810300	-104.2134210	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45117	HH SO 8 5 FED 003 #003H	G	N	CHEVRON U S A INC	0	32.04817200	-104.2134210	9/20/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45118	HH SO 8 5 FED 003 #004H	G	N	CHEVRON U S A INC	0	32.04824100	-104.2134210	9/21/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45119	HH SO 8 5 FED 003 #005H	G	N	CHEVRON U S A INC	0	32.04830900	-104.2134200	9/22/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45120	HH SO 8 5 FED 003 #006H	G	N	CHEVRON U S A INC	0	32.04837800	-104.2134200	9/23/2018	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45987	HH SO 8 5 FEDERAL 004 #001H	G	N	CHEVRON U S A INC	0	32.04759900	-104.2088330	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45988	HH SO 8 5 FEDERAL 004 #002H	G	N	CHEVRON U S A INC	0	32.07824500	-104.2079040	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45989	HH SO 8 5 FEDERAL 004 #003H	G	N	CHEVRON U S A INC	0	32.04759800	-104.2086720	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45990	HH SO 8 5 FEDERAL 004 #004H	G	N	CHEVRON U S A INC	0	32.04759700	-104.2085910	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45991	HH SO 8 5 FEDERAL 004 #005H	G	N	CHEVRON U S A INC	0	32.04759700	-104.2085110	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45992	HH SO 8 5 FEDERAL 004 #006H	G	N	CHEVRON U S A INC	0	32.04759600	-104.2084300	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
46055	BLUE MOON STATE UNIT #001H	O	N	REGENERATION ENERGY, CORPORATION	0	32.03592900	-104.2014790	-	[64030] WELCH, DELAWARE



**Bear Tracker SWD No. 1**

**1 Mile Offset Operators**

3Bear Field Services LLC

Eddy Co., NM

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

Drawn by: SJL | Date: 11/23/2019 | Approved by: SLP

**LONQUIST & CO. LLC**

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN • HOUSTON | CALGARY • WICHITA  
DENVER • COLLEGE STATION | BATON ROUGE • EDMONTON

- ⊕ Bear Tracker SWD No. 1
- ⊖ 1 Mile Radius
- QQ-Section [NM-PLSS 2nd Div.]
- ▭ Section [NM-PLSS 1st Div.]
- ▭ Township/Range [T26S R27E]
- ▭ Surface Owner (STATE OF NEW MEXICO)
- Laterals

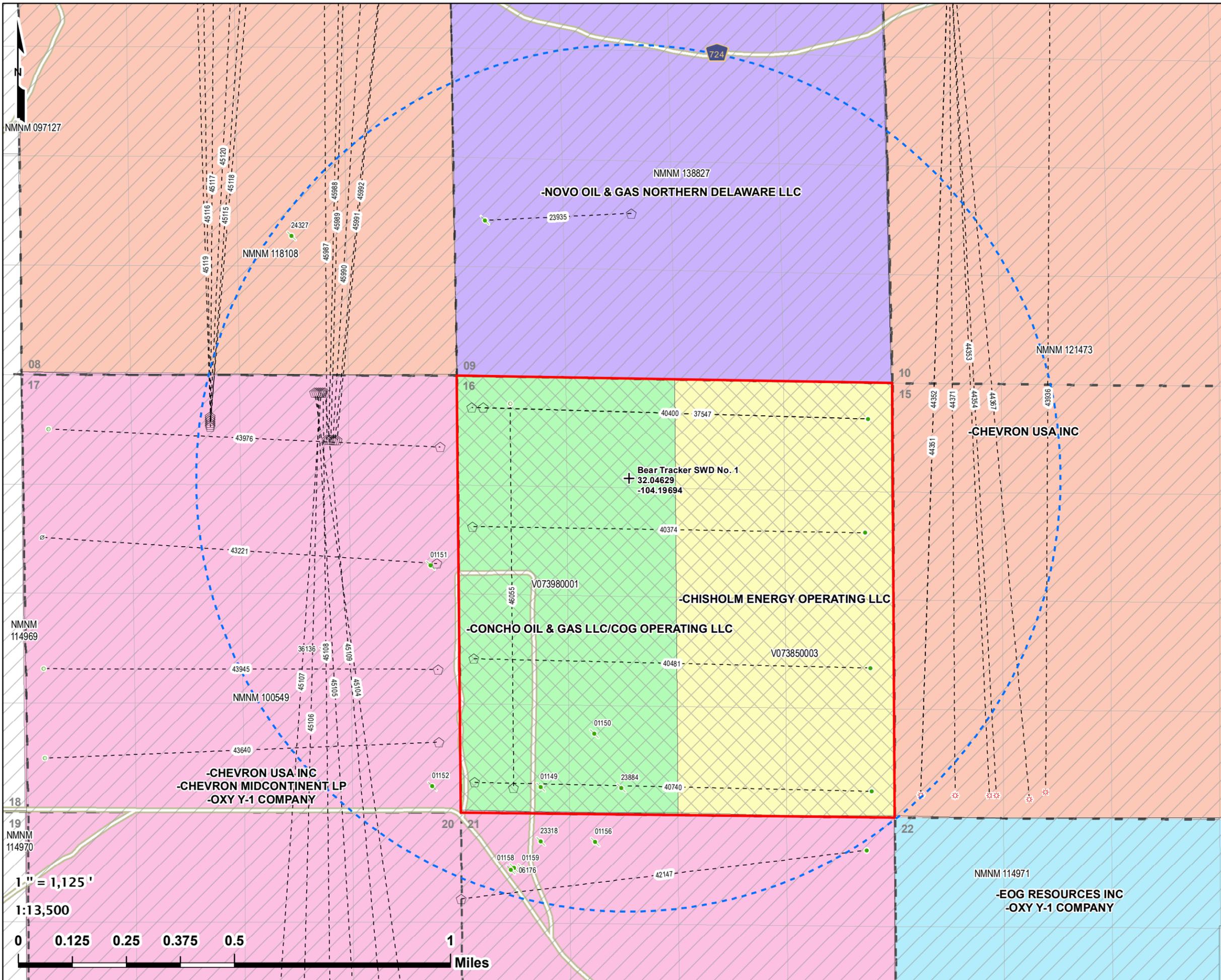
- API (30-015-...) SHL Status - Type (Count)**
- ⬡ Horizontal Surface Location (37)
  - Plugged (Site Released) - Oil (11)
  - ⊗ Plugged (Site Released) - Gas (1)

- API (30-015-...) BHL Status - Type (Count)**
- Active - Oil (6)
  - ⊗ Active - Gas (7)
  - Permitted - Oil (4)
  - Permitted - Gas (18)
  - Plugged (Site Released) - Oil (1)
  - ∅ Canceled Location (1)

- Operators**
- ▭ -CHEVRON USA INC
  - ▭ -CHEVRON USA INC; -EOG RESOURCES INC
  - ▭ -COG OPERATING LLC
  - ▭ -COG OPERATING LLC; -REGENERATION ENERGY CORPORATION
  - ▭ -NO ACTIVE OPERATORS

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





**Bear Tracker SWD No. 1**

**1 Mile Offset Lessees**

**3Bear Field Services LLC**

**Eddy Co., NM**

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

Drawn by: SJL

Date: 11/23/2019

Approved by: SLP

**LONQUIST & CO. LLC**

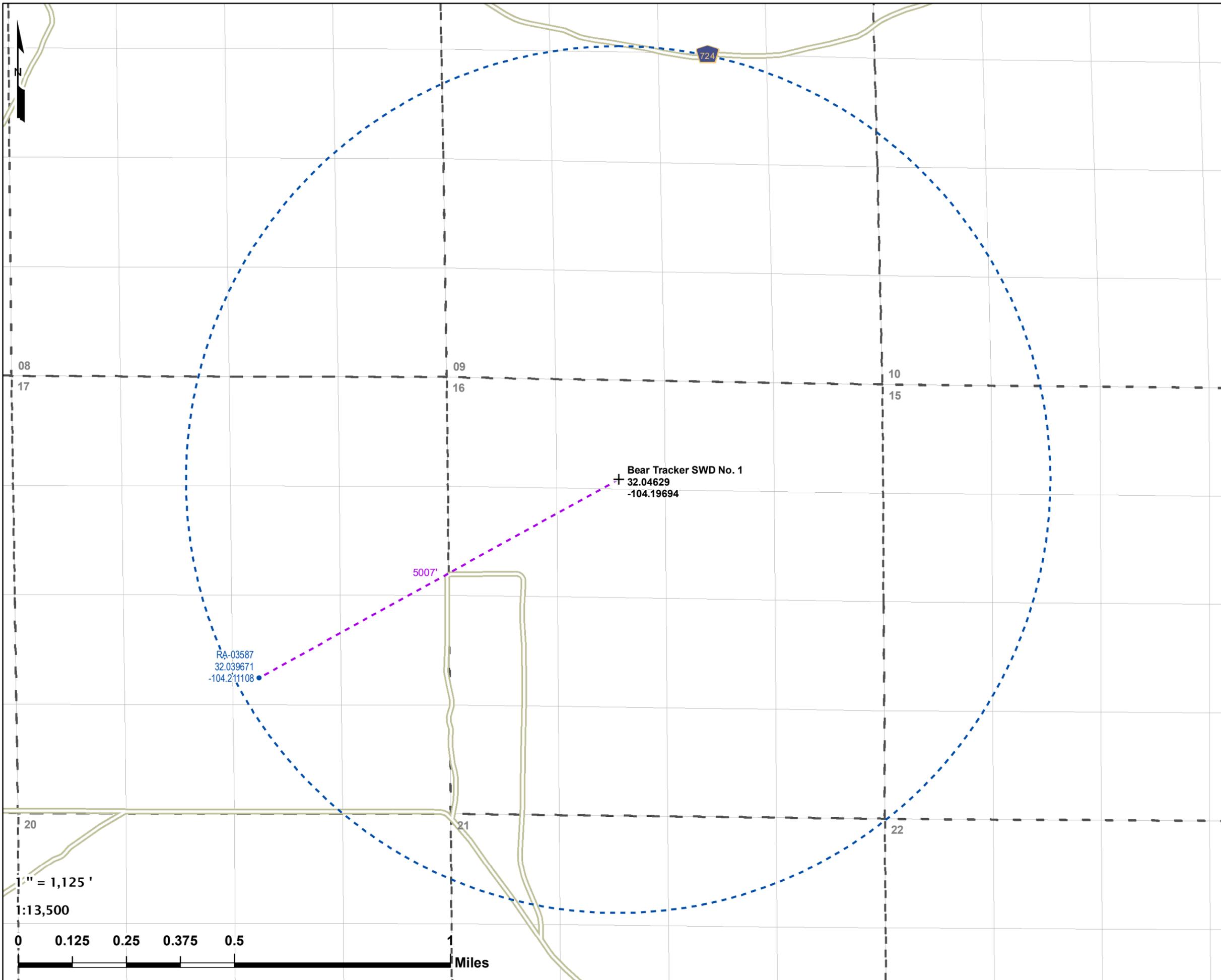


AUSTIN · HOUSTON · CALGARY · WICHITA  
DENVER · COLLEGE STATION · BATON ROUGE · EDMONTON

- ⊕ Bear Tracker SWD No. 1
- ⊕ 1 Mile Radius
- ▭ QQ-Section [NM-PLSS 2nd Div.]
- ▭ Section [NM-PLSS 1st Div.]
- ▭ Township/Range [T26S R27E]
- ▭ Surface Owner (STATE OF NEW MEXICO)
- ▭ NM - BLM (O&G Leases)
- ▭ NM - SLO (O&G Leases)
- Laterals
- API (30-015-...) SHL Status - Type (Count)**
- ⬠ Horizontal Surface Location (37)
- Plugged (Site Released) - Oil (11)
- ⊗ Plugged (Site Released) - Gas (1)
- API (30-015-...) BHL Status - Type (Count)**
- Active - Oil (6)
- ⊗ Active - Gas (7)
- Permitted - Oil (4)
- Permitted - Gas (18)
- Plugged (Site Released) - Oil (1)
- ⊘ Canceled Location (1)
- Lessees**
- ▭ -CHEVRON USA INC
- ▭ -CHEVRON USA INC; -CHEVRON MIDCONTINENT LP; -OXY Y-1 COMPANY
- ▭ -CHISHOLM ENERGY OPERATING LLC
- ▭ -CONCHO OIL & GAS LLC/COG OPERATING LLC
- ▭ -EOG RESOURCES INC; -OXY Y-1 COMPANY
- ▭ -NOVO OIL & GAS NORTHERN DELAWARE LLC

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





**Bear Tracker SWD No. 1**  
**1 Mile Offset Water Wells**  
 3Bear Field Services LLC  
 Eddy Co., NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)  
 Drawn by: SJL | Date: 11/22/2019 | Approved by: SLP

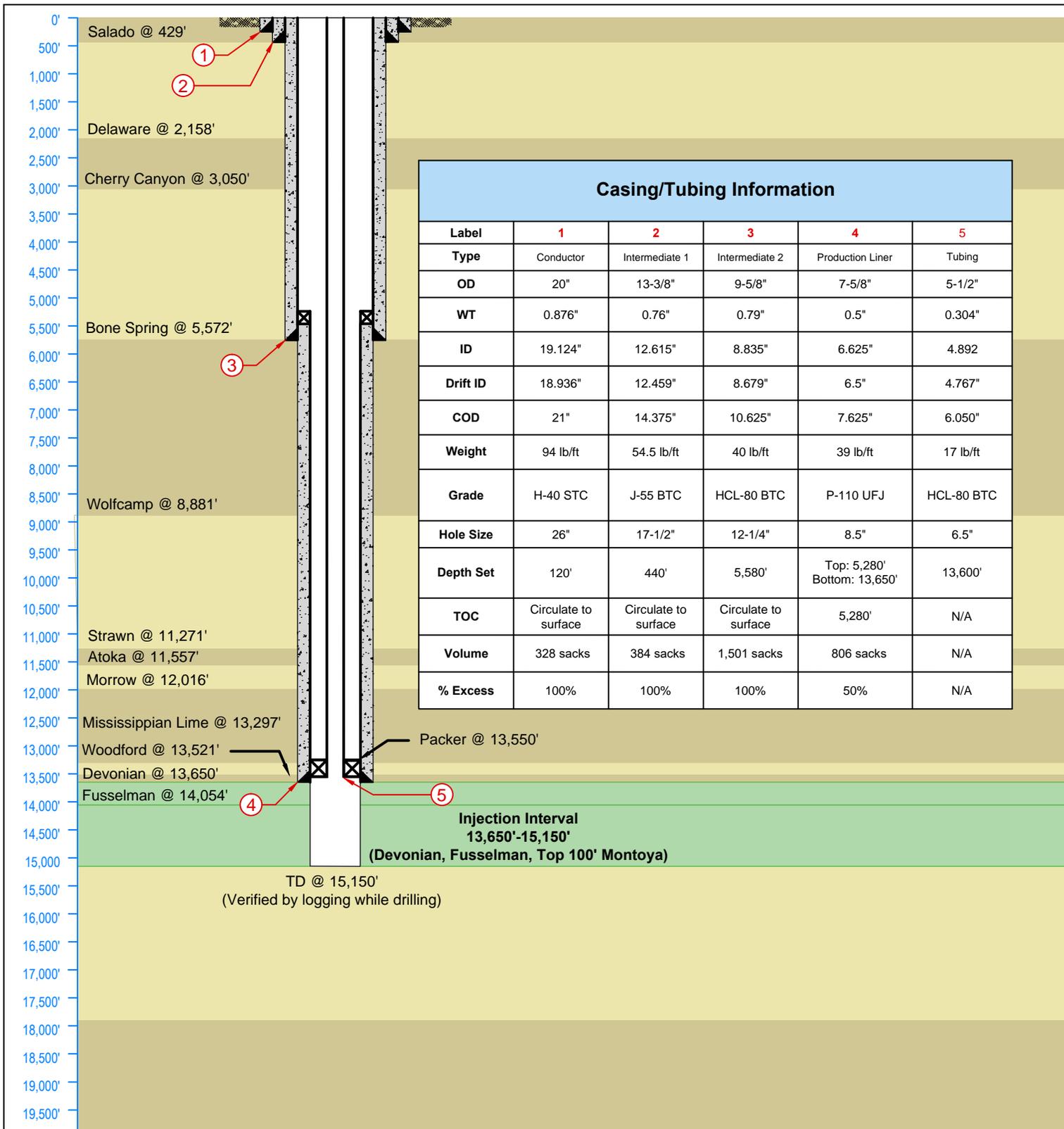


- ⊕ Bear Tracker SWD No. 1
  - Water Well (1)
  - ⊖ 1 Mile Radius
  - - - Distance Call
  - QQ-Section [NM-PLSS 2nd Div.]
  - ⊔ Section [NM-PLSS 1st Div.]
  - ▬ Township/Range [T26S R27E]
- \*Water Well Data Source: NM-OSE (2019)



**Bear Tracker 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
8/26S/27E	G,H,I,J,N,O,P	CHEVRON USA INC	-	-	-	6301 DEAUVILLE BLVD	MIDLAND, TX 79706
9/26S/27E	B,C,E,F,G,H,I,J,K,L,M,N,O,P	-	NOVO OIL & GAS NORTHERN DELAWARE LLC	-	-	1001 W WILSHERE BLVD STE 206	OKLAHOMA CITY, OK 73116
10/26S/27E	E,K,L,M,N	CHEVRON USA INC	-	-	-	6301 DEAUVILLE BLVD	MIDLAND, TX 79706
15/26S/27E	C,D,E,F,K,L,M	CHEVRON USA INC	-	-	-	6301 DEAUVILLE BLVD	MIDLAND, TX 79706
16/26S/27E	A,B,C,F,G,H,I,J,K,N,O,P	COG OPERATING LLC	-	-	-	600 W ILLINOIS AVE	MIDLAND, TX 79701
	D,E,L,M	COG OPERATING LLC	-	-	-	600 W ILLINOIS AVE	MIDLAND, TX 79701
		REGENERATION ENERGY CORPORATION	-	-	-	PO BOX 210	ARTESIA, NM 88210
17/26S/27E	A,B,C,I,J,K,O,P	CHEVRON USA INC	-	-	-	6301 DEAUVILLE BLVD	MIDLAND, TX 79706
		EOG RESOURCES INC	-	-	-	PO BOX 2267	MIDLAND, TX 79702
	F,G,H	CHEVRON USA INC	-	-	-	6301 DEAUVILLE BLVD	MIDLAND, TX 79706
20/26S/27E	A	CHEVRON USA INC	-	-	-	6301 DEAUVILLE BLVD	MIDLAND, TX 79706
21/26S/27E	A,B,C,D	CHEVRON USA INC	-	-	-	6301 DEAUVILLE BLVD	MIDLAND, TX 79706
Surface Location	-	-	-	-	STATE OF NEW MEXICO	310 OLD SANTA FE TRAIL	SANTA FE, NM 87504



<b>LONQUIST &amp; CO. LLC</b> 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 Service		<b>Bear Tracker SWD #1</b>	
	Country: USA		State/Province: New Mexico	County/Parish: Eddy
	Location:		Site: 1,213 FNL 2,096 FWL	Survey: S16-T26S-R33E
	API No: NA		Field: Silurian-Devonian	Well Type/Status: SWD
	NMOCD District No: 1		Project No: 1784	Date: 9/24/2018
Drawn: TFM		Reviewed:	Approved:	
Rev No: 1		Notes:		