| RECEI | /ED: | , | | | - 1 |
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| -3/ | 04 | 12 | 0 | ļ | К |

Signature



APP NO:

e-mail Address

DMAM18072

NEW MEXICO OIL CONSERVATION DIVISION



| Coological & Engine | /74 • |
|--|--|
| - Geological & Enginee 1220 South St. Francis Drive, S | (\.2 = 1: |
| 1220 30011 31. FIGURES DIIVE, 3 | difficient for the first of the |
| ADMINISTRATIVE APPLIC | |
| THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE A REGULATIONS WHICH REQUIRE PROCESSING | |
| Applicant: 3Bear Field Services, LLC | OGRID Number: 372603 |
| Well Name: Libby Berry Fee SWD 1 | API: 30-025-44288 |
| Pool: SWD; Devonian | Pool Code: 96101 |
| SUBMIT ACCURATE AND COMPLETE INFORMATION RE INDICATED | BELOW |
| 1) TYPE OF APPLICATION: Check those which apply for A. Location – Spacing Unit – Simultaneous Dedic NSL NSP(PROJECT AREA) | • • |
| [] Injection – Disposal – Pressure Increase – WFX PMX SWD IPI 2) NOTIFICATION REQUIRED TO: Check those which a A. Offset operators or lease holders B. Royalty, overriding royalty owners, revenue C. Application requires published notice D. Notification and/or concurrent approval to E. Notification and/or concurrent approval to F. Surface owner G. For all of the above, proof of notification of H. No notice required | pply. pply. poy SLO by SLO by BLM propublication is attached, and/or, |
| administrative approval is accurate and complete understand that no action will be taken on this approval in the complete understand that no action will be taken on the complete notifications are submitted to the Division. | to the best of my knowledge. I also |
| Note: Statement must be completed by an individuo | al with managerial and/or supervisory capacity. |
| | 2.0.10 |
| | 3-8-18 Date |
| Brian Wood | Daio |
| Print or Type Name | 505 466 9120 |
| $\mathcal{O}_{\mathcal{I}}/\mathcal{I}$ | 505 466-8120 Phone Number |
| 13-/1/a-1 | Thore norther |
| | brian@permitswest.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

| | MI DECITION ON TO MICHIGAN |
|--------|---|
| I. | PURPOSE: Secondary Recovery Pressure Maintenance XXX Disposal Storage Application qualifies for administrative approval? XXX Yes No |
| II. | OPERATOR: 3BEAR FIELD SERVICES, LLC |
| | ADDRESS: 1512 LARIMER ST., SUITE 540, DENVER CO 80202 |
| | CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120 |
| 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 XXX 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. Libby Berry Fee SWD 1 |
| VII. | Attach data on the proposed operation, including: 1. Proposed average and maximum daily rate and volume of fluids to be injected; (Devonian (96101)) |
| | Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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). |
| | 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. |
| | Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. |
| | NAME: BRIAN WOOD TITLE: CONSULTANT |
| | SIGNATURE: DATE: FEB. 26, 2018 |
| | E-MAIL ADDRESS: brian@permitswest.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: |

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

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

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

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

I. Goal is to drill a 14,600' deep commercial saltwater disposal well on fee surface. Proposed disposal interval will be 13,350' – 14,600' in the SWD; Devonian (96101) pool. See Exhibit A for map and C-102.

II. Operator: 3Bear Field Services, LLC (OGRID 372603)

Operator phone number: (575) 626-7100

Operator address: 1512 Larimer St., Suite 540, Denver CO 80202

Contact for Application: Brian Wood (Permits West, Inc.)

Phone: (505) 466-8120

III. A. (1) Lease: BLM NMLC-0066126

Lease Size: 480 acres Closest Lease Line: 130'

Lease Area: SW4 Sec. 23 & N2 Sec. 26, T. 20 S., R. 34 E.

A. (2) Conductor (20", 94#, H-40, buttress) will be set at 300' in a 26" hole and cemented to GL with 675 sacks Class C + KCl.

Surface casing (13.375", 54.5#, J-55, ST&C) will be set at 1950' in a 17.5" hole and cemented to GL. Lead with 900 sacks Class C + 2% KCl + cello flake + bentonite extender. Tail with 200 sacks Class C + 1% PF1 calcium.

Intermediate casing (9.625", 43.5#, HCL-80, LT&C) casing will be set at 8400' in a 12.25" hole and cemented to GL. Lead with 1400 sacks 50/50 P/H + 5% BWOW & salt + 10% bentonite gel + cello flake. Tail with 300 sacks Class 50/50 P/H + 2% PF20 gel + 3% fluid loss.

Seven-inch production casing (29#, HCP-110, LT&C from GL to 13,200' and 32#, HCP-110, Proprietary Full-Seal Thread from 13,200' to 13,350') will be set in an 8.75" hole. Production casing will be cemented to GL with 2940 sacks. Corrosion resistant cement (e. g., Halliburton's LockCem™ or its equivalent) will be run at the base.



Class H 50/50 + 2% bentonite gel + 5% fluid loss will be run above the corrosion resistant cement. CBL will be used to verify TOC.

Well will be completed open hole (6.625") from 13,350' to 14,600'.

- A. (3) IPC tubing (4.5" 12.75#, P-110, with Teflon ring) will be set at $\approx 13,300$ '. (Disposal interval will be 13,350' to 14,600'.)
- A. (4) Packer assembly will be set at ≈13,300'. (Disposal interval will be 13,350' to 14,600'.) Packer will consist of a 7" x 3.5" T-2 on/off stainless steel top sub, stainless steel plated J latch with 3.5" x 2.81" X stainless steel profile nipple, and a 3.5" pin x 4.5" box changeover. Additional down hole safety equipment includes a BHP/BHT gauge directly above the packer and a subsurface safety valve at ≈250'. Metallurgy will be corrosion resistant.
- B. (1) Disposal zone will be the SWD; Devonian (96101).
- B. (2) Disposal interval will be 13,350' to 14,600'.
- B. (3) This well will be drilled as a saltwater disposal well.
- B. (4) Well was has not yet been drilled.
- B. (5) Closest Devonian producer (30-025-02428) is 3.14 miles NNE in F-12-20s-34e. Last production (3 bopd, 5 Mcfd, 394 bwpd) was in May 2014. Legacy has filed to isolate the Devonian below a CIBP and convert the well to a Bone Spring producer.

Yates and Bone Spring produce from above the Devonian within the area of review. No zone produces from below the Devonian within the area of review.

IV. This is not an expansion of an existing injection project. It is disposal only.



V. Exhibit B shows and tabulates the nine existing wells (3 P&A + 6 oil) within a half-mile. Exhibit C shows all 192 existing wells (115 oil or gas wells + 55 P & A wells + 11 saltwater disposal or injection wells + 11 water wells) within two-miles.

Exhibit D shows all leases and lessors (only BLM) within a half-mile radius. Exhibit E shows all leases and lessors (fee, State, and BLM) within a two-mile radius. Details on the leases within a half-mile radius are:

| Aliquot Parts in Area of Review (T20S, R34E) | Lessor | Lease | Lessee(s) of Record | Well Operator(s) |
|---|--------|---------------|--------------------------|---------------------|
| SWSE Sec. 23 | BLM | NMNM-124663 | Cimarex | Cimarex |
| SESE Sec. 23 | BLM | NMNM-028880 | Chisholm | Cimarex |
| SWSW Sec. 24 | BLM | NMNM-123525 | COG | Caza |
| NW4 Sec. 25 | BLM | NMLC-056265 | Chisholm | Chisholm |
| SW4 Sec. 25 | BLM | NMLC-0066126 | McBride | Chisholm |
| NE4 & E2NW4 Sec. 26 | BLM | NMLC-0066126 | McBride | Burk & Cimarex |
| SE4 & E2SW4 Sec. 26 | BLM | NMLC-0066126C | Burk & Kerr- McGee | Burk & Cimarex |

- VI. Deepest well within a 2640' radius is 11,251' TVD. Top of the proposed disposal interval is 13,350'.
- VII. 1. Average injection rate will be ≈20,000 bwpd. Maximum injection rate will be 25,000 bwpd.
 - 2. System will be open.
 - 3. Average injection pressure will be ≈ 2500 psi. Maximum injection pressure will be 2670 psi (= 0.2 psi/foot x 13,350' (top of open hole)).
 - 4. There have been no reports of problems disposing into the closest (2-1/2 miles northwest) active SWD; Devonian (96101) well (30-025-43422). At least 827,678 barrels have been disposed in that well in its first year of operation.



SWD 1

LIBBY BERRY FEE

3BEAR FIELD SERVICES, LLC

OPERATOR:

See amended C-101/attached $\mathfrak{t}_{\mathfrak{f}}$ ft3 £3 VISUAL VISUAL RANGE 34 E Casing Size: 7" @ 13,350' 13.375" CBL WELL CONSTRUCTION DATA * Casing Size: 9.625" Method Determined: Method Determined: Method Determined: TOWNSHIP 13,350 feet to 14,600' 20 S Casing Size: Intermediate Casing Production Casing Injection Interval Surface Casing 0 0 or SX. SX. SX. SECTION SURFACE 14,600' SURFACE SURFACE 8.75" 12.25" 2940 17.5" 1700 1100 Top of Cement: Cemented with: Top of Cement: Cemented with: Top of Cement: Cemented with: Total Depth: UNIT LETTER Hole Size: Hole Size: Hole Size: \mathbf{H} 12/02/18 8/02/20 jor7 01/02/2010 13.375" 54.5# in 50 17.5" hole @ 1950' ostal 77. 29# & 32# in 8.75" hole @ (3,350) TOC (2940 sx) = GL (CBL) 2510' FNL & 710' FEL 9.625" 43.5# in FOOTAGE LOCATION WELLBORE SCHEMATIC (not to scale) TD 14,600' packer @ ≈13,350° WELL NAME & NUMBER: Devonian 6.625" open hole 13,350' - 14,600' WELL LOCATION:

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

| ubing Size: | ize: 4.5" Lining Material: IPC | |
|---------------|--|--|
| ype of | ype of Packer: STAINLESS STEEL &/OR NICKEL W/ TEFLON RING | |
| acker | 'acker Setting Depth: ≈13,350' | |
|)ther T | Other Type of Tubing/Casing Seal (if applicable): | |
| | Additional Data | |
| . Is t | Is this a new well drilled for injection? XXX Yes No | |
| Ifn | If no, for what purpose was the well originally drilled? | |
| Naı | Name of the Injection Formation: DEVONIAN | |
| . Na | Name of Field or Pool (if applicable): SWD; DEVONIAN (POOL CODE 96101) | |
| . Hay inte | 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 | C | |
| inje | Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: | |
| 6 | OVER: YATES (3570') & BONE SPRING (5458') | |
| | | |
| ND. | UNDER: none | |
| | | |

Main source of the disposal water will be produced water from Bone Spring wells. There are 175 active or new Bone Spring wells in T. 20 S., R. 34 E. However, water produced from the Yates, Seven Rivers, Wolfcamp, Pennsylvanian, etc. could also be disposed. Yates, Seven Rivers, and Pennsylvanian wells currently produce in T. 20 S., R. 34 E. Water analyses from Go-Tech in T. 20 S., R. 34 E. are in Exhibit F.

5. No Devonian producer is within 3 miles. Water analyses from Artesia, Bone Spring, Delaware, Devonian, Pennsylvanian, San Andres wells in T. 20 S., R. 34 E. are in Exhibit F. A Devonian sample from 30-025-02432 2 miles away in B-13-20s-34e found chlorides at 26,400 mg/l and TDS at 45,778 mg/l. (The Devonian has been permanently plugged and the well is now a Bone Spring producer.)

VIII. The Devonian is a cherty limestone. Closest possible underground source of drinking water above the proposed disposal interval is the Quaternary in the top 140'. Water bearing strata have been found as deep as 1005', but their location in the Rustler and Salado indicate they could be brackish to briny. Office of the State Engineer (Exhibit G) records show one water well within 1-mile. It could not be found (it plots under a paved county road) during a December 28, 2017 inspection. Two water wells 1.6 miles southeast and 1.8 miles northeast were sampled. Neither are in the State Engineer's records. No underground source of drinking water is below the proposed disposal interval. Estimated tops are:

Quaternary = 0'
Rustler = 140'
Salado = 400'
Lamar = 1897'
Yates = 3570'
Bone Spring = 5458'
Wolfcamp = 8611'
Strawn = 10,977'
Atoka = 11,185'
Mississippian = 12,481'
Devonian = 13,299'
top of open hole = 13,350'
TD = 14,600'



There will be 11,950' of vertical separation and >1,750' anhydrite and salt between the bottom of the only likely underground water source within 2-miles and the top of the Devonian. The Ogallala is 7 miles northeast. At least 827,678 barrels have been disposed in the closest (2-1/2 miles northwest) Devonian SWD well (30-025-43422) in less than a year.

- IX. Well will be stimulated with acid to clean out scale or fill.
- X. CBL will be run to check TOC. GR, Neutron Density, ILL, and FMI will be run in the OH. Will run full suite over OH from 7" casing set point to above intermediate at $\approx 8,400$. Then rerun suite and capture side-wall cores from TD back to 7" shoe. Sonic may be run in the OH in order to create a synthetic seismic.
- XI. Based on a December 28, 2017 field inspection, no water well is within a one-mile radius. See Exhibit G.

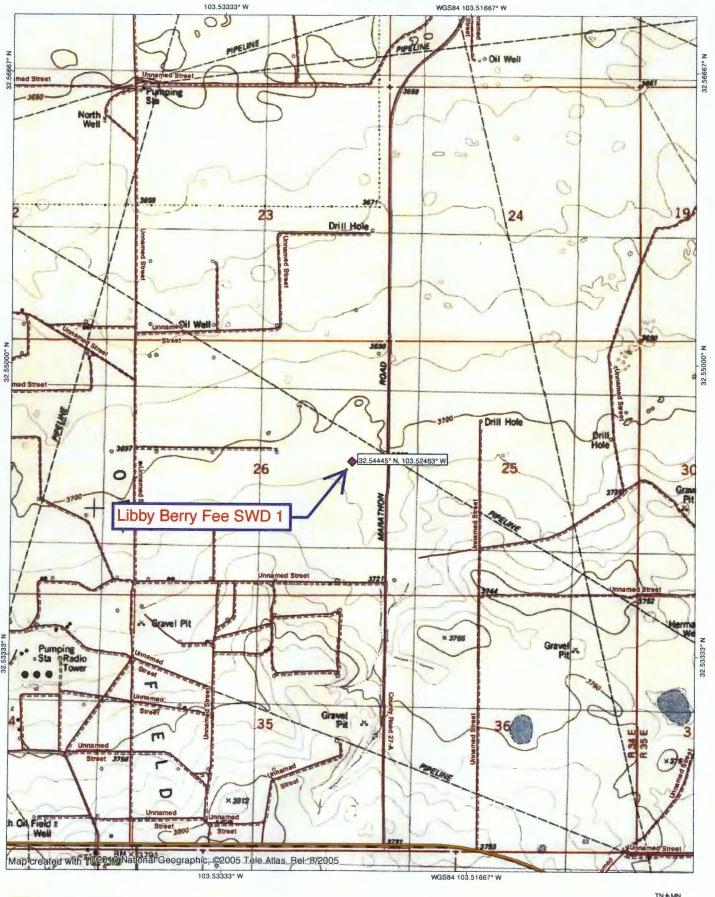
Attached Statement by 1. White, geologist,

XII. (3Bear Field Services, LLC) is not aware of any geologic or engineering data that may indicate the Devonian is in hydrologic connection with any underground source of water. Over a thousand feet of evaporites prevent that from occurring. There are 201 active or new Devonian disposal or injection wells in New Mexico. Closest Quaternary fault (Guadalupe) is ≈92 miles southwest (Exhibit H).

XIII. A legal ad (see Exhibit I) was published on December 20, 2017. Notice (this application) has been sent (Exhibit J) to the surface owner (T Over V Ranch LLLP), lessor (BLM), lessees (Burk, Chisholm, Cimarex, COG, Kerr-McGee, McBride), operating right holders (B&L Oil, Chisholm, Eau Rouge, JKS Resources, Kerr-McGee c/o Anadarko, Bruce MacNaughton, Corwin Myers, Harold Myers III, Suzanne Myers, Nearburg, Carl Oman Trust, F P Oman Trust, Mary Jane Oman Trust, Tobosa) and all well operators (Burk, Caza, Chisholm, Cimarex) or other affected persons within a half-mile.



TOPO! map printed on 12/16/17 from "Untitled.tpo"





0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 miles 0.0 c 1.0 km



N*MN 7°

District 1
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First SL, 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
220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

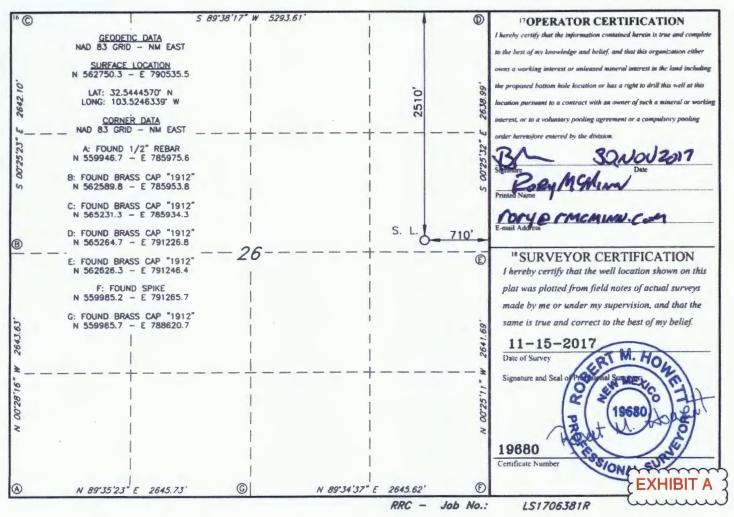
State of New Mexico BBS OCD
Energy, Minerals & Natural Resourted Bartinent
OIL CONSERVATION DIVISION
1220 South St. Francis DEC 1 1 2017
Santa Fe, NM 87505
RECEIVED

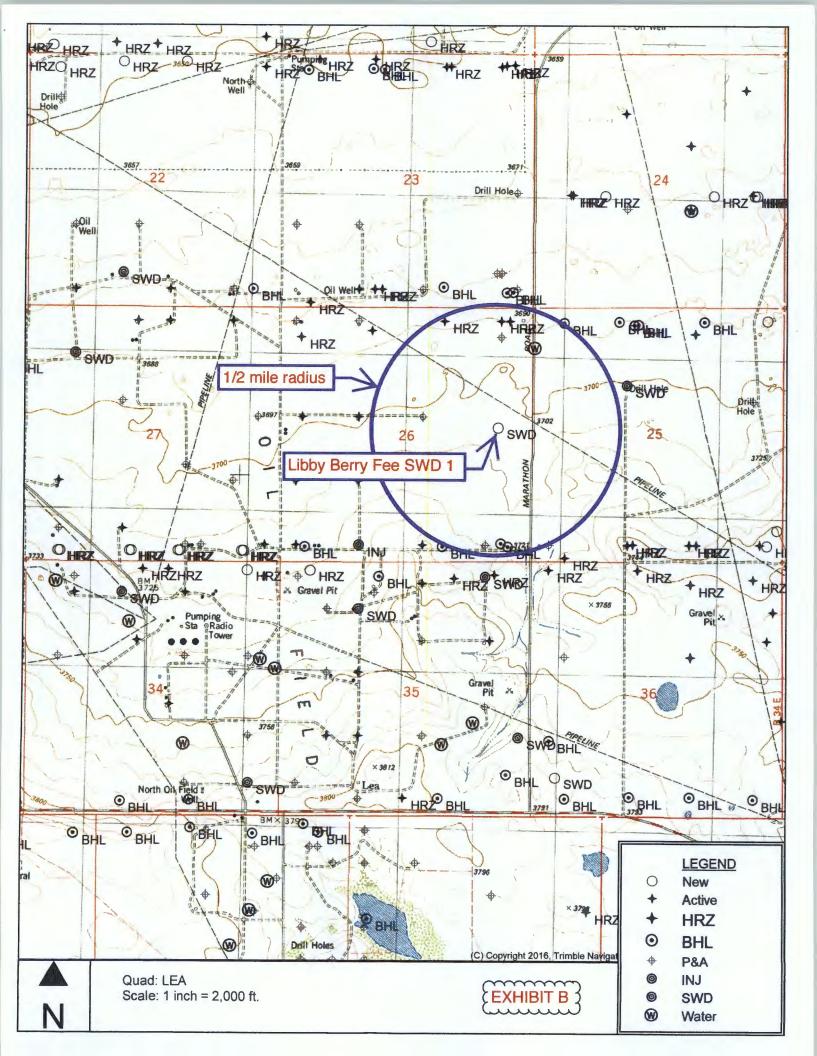
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREACE DEDICATION BLAT

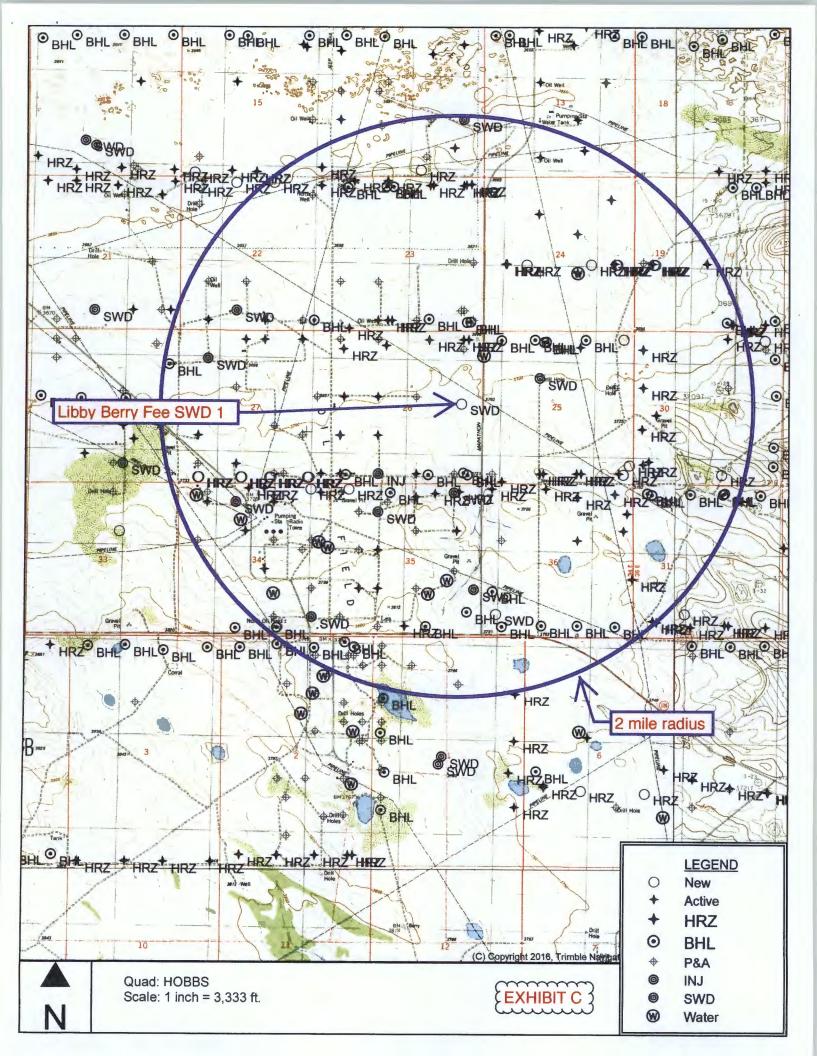
| 30-02 | API Number | ONTAN | - | | | | | | | | | |
|-------------------|--|-----------------|----------------------------------|-----------|---------------|------------------|---------------|----------------|--------|--|--|--|
| 32049 | Section 1 Sectio | | | | | | | | | | | |
| 37260 | | | 3 BEAR FIELD SERVICES, LLC 3707' | | | | | | | | | |
| | | | , | | 10 Surface I | Location | | | | | | |
| UL or lot no. | Section 26 | Township 20S | Range 34E | | | | | | | | | |
| | | | 11] | Bottom H | ole Location | If Different Fro | om Surface | | | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | | | |
| 2 Dedicated Acres | 13 Joint | or Infill 14 | Consolidation | Code 15 C | Order No. | | | | | | | |

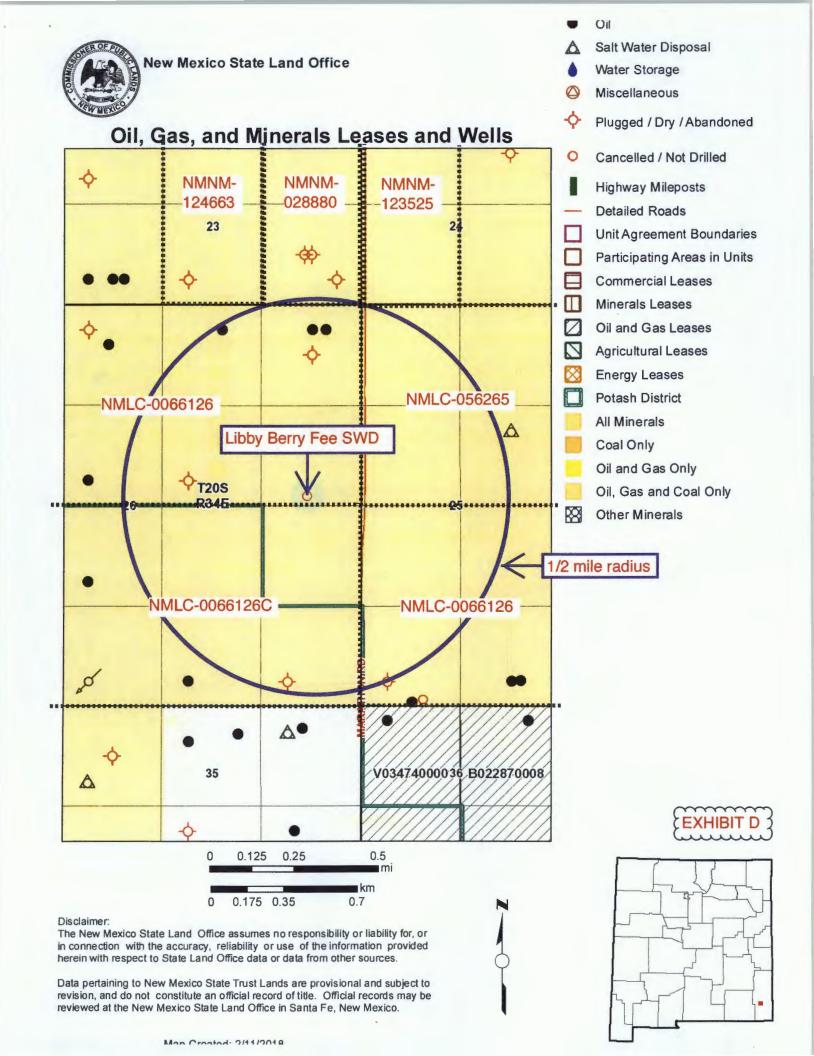


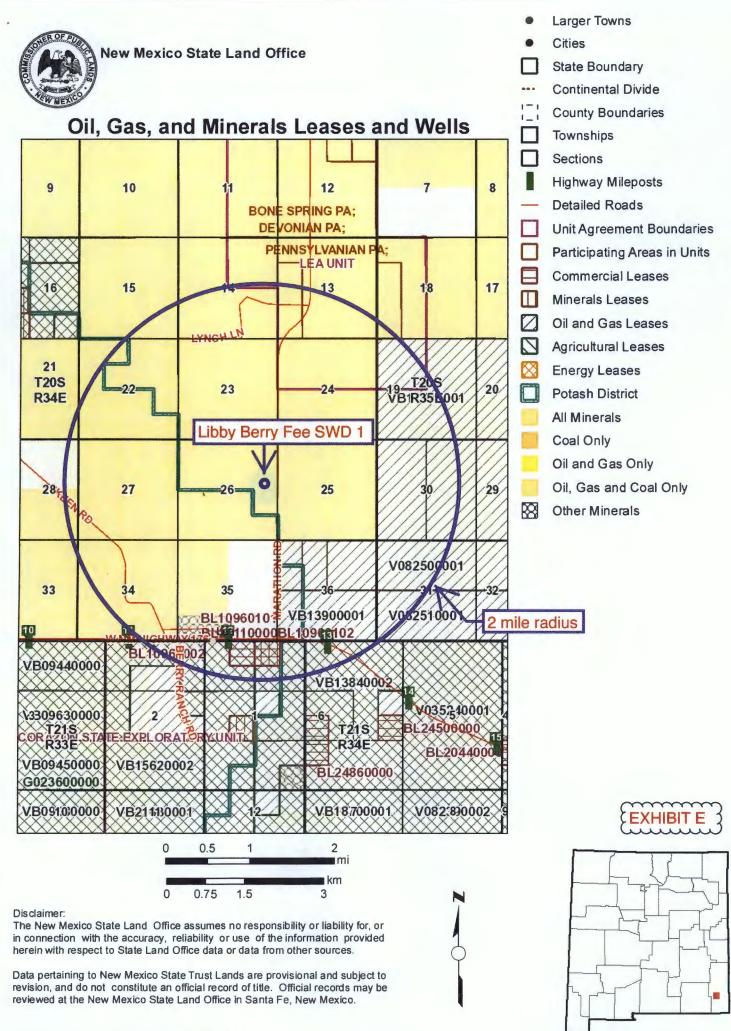


SORTED BY DISTANCE FROM LIBBY BERRY FEE SWD 1

| API | WHO | WELL | TYPE | T20S-R34E- UNIT- SECTION | TVD | ZONE | FEET FROM LIBBY BERRY FEE SWD 1 |
|------------|----------|----------------------------------|------|--------------------------------|-------|--------------------------------|------------------------------------|
| 3002541367 | Chisolm | Lea South 25 Federal Com 005H | 0 | M-25 | 11251 | Lea; Bone Spring, S | 1348 |
| 3002502456 | Burk | Hanson B 003 | P&A | G-26 | 3829 | Lynch; Yates - Seven Rivers | 1607 |
| 3002529669 | Nearburg | Rittster Federal 001 | P&A | A-26 | 288 | Quaternary WSW | 1854 |
| 3002540804 | Cimarex | Hanson 26 Federal Com 004H | 0 | A-26 | 11185 | Lea; Bone Spring, S | 2032 |
| 3002541359 | Cimarex | Hanson 26 Federal Com 005H | 0 | A-26 | 9692 | Lea; Bone Spring, S | 2043 |
| 3002540637 | Cimarex | Hanson 26 Federal Com 003H | 0 | B-26 | 11141 | Lea; Bone Spring, S | 2346 |
| 3002502461 | Phillips | Cruces Federal 005 | P&A | P-26 | 3760 | Lynch; Yates - Seven Rivers | 2456 |
| 3002541898 | Chisolm | Lea South 25 Federal Com 006H | 0 | N-25 | 11174 | Lea; Bone Spring, S | 2586 |
| 3002540819 | Cimarex | Hanson 26 Federal Com 002 | 0 | C-26 | 11112 | Lea; Bone Spring, S | 2639 |
| 3002502452 | Burk | Hanson Federal 001 | P&A | M-25 | 3864 | Lynch; Yates - Seven Rivers | 2664 |







| e Sulfate | 1 691 | 3 294 | 9 147 | 2 811 | 7 170 | 5 454 | 5 220 | 4 1142 | 5 2750 | 8 1816 | 0 2500 | | 9 670 | 6 992 | | 1 1038 | 2 1096 | 7 1961 | 920 | 8 1038 | 5 729 | 0 2020 | 8 1640 | 46 3647 | 3 3450 | 5 2340 | 3 111 |
|-------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|---------------|---------------|------------|---------------|-------------|------------|------------|------------|------------|------------|------------|------------|
| Bicarbonate | 404 | 143 | 229 | 532 | 457 | 425 | 146 | 634 | 185 | 208 | 170 | | 1016 | 5196 | | 1401 | 1272 | 227 | 1256 | 108 | 1145 | 1360 | 588 | 4 | 1003 | 295 | 473 |
| Chloride | 102148 | 215237 | 245270 | 10950 | 14919 | 20220 | 114800 | 16720 | 2600 | 132700 | 8000 | | 108300 | 118100 | | 25320 | 19020 | 18570 | 24000 | 89640 | 26440 | 9800 | 17830 | 7932 | 5925 | 3760 | 268 |
| Magnesium | | | | | 285 | 513 | | | | | | | | | | | | | | | | | | | | | * |
| Iron | 9 | 6 | 4 | | 17 | 5 | | | | | | | | | | | | | | | | | | | | | 1061 |
| Calcium | 13150 | 45355 | 29657 | | 298 | 1248 | | | | | | | | | | | | | | | | | | | | | 12 |
| Sodium | 51632 | 87728 | 125179 | | 8847 | 10688 | | | | | | | | | | | | | | | | | | | | | 0 |
| TDS | 152064 | 296822 | 340838 | 19994 | 24817 | 33296 | 187065 | 29436 | 16150 | 214787 | 16595 | 15429 | 180701 | 202606 | 121800 | 44800 | 35094 | 33414 | 42216 | 147229 | 45778 | 20395 | 31894 | 18174 | 15685 | 9610 | 1011 |
| Formation | DELAWARE | DELAWARE | DELAWARE | ARTESIA | ARTESIA | ARTESIA | SAN ANDRES | BONE SPRING | ARTESIA | DELAWARE | ARTESIA | BONE SPRING | BONE SPRING | BONE SPRING | BONE SPRING | PENNSYLVANIAN | PENNSYLVANIAN | DEVONIAN | PENNSYLVANIAN | BONE SPRING | DEVONIAN | ARTESIA | ARTESIA | ARTESIA | ARTESIA | ARTESIA | ADTECIA |
| Section | 2 | 2 | 2 | 22 | 19 | 20 | 1 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 22 | 29 | 32 | 22 | 21 | 10 |
| API | 3002531696 | 3002532105 | 3002532466 | 3002508462 | 3002526625 | 3002523861 | 3002502408 | 3002502424 | 3002502427 | 3002502427 | 3002502427 | 3002502427 | 3002502427 | 3002502429 | 3002502429 | 3002502431 | 3002502431 | 3002502431 | 3002502431 | 3002502431 | 3002502432 | 3002502449 | 3002502478 | 3002502511 | 3002521346 | 3002502439 | מנשטנשנטטנ |



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

POD

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

(quarters are smallest to largest) (NAD8:

(NAD83 UTM in meters)

(In feet)

| POD Number | Code | Sub- | County | Q 64 | | | Soc | Twe | Dng | X | Y | DistanceDe | onthWellD | epthWater C | Water |
|----------------------|----------|------|--------|---------|---|---|-----|-------------|-----|--------|-----------|------------|-----------|--------------|-------|
| CP 01204 POD1 | 1 mile = | CP | LE | 3 | | 1 | 25 | 208 | 34E | 638755 | 3602250 | 550 | 370 | epin water C | |
| CP 00665 | 1610 m | СР | LE | | 1 | 4 | 24 | 20S | 34E | 639740 | 3603128* | 1834 | 698 | 270 | 428 |
| CP 01334 POD1 | | CP | LE | 1 | 2 | 4 | 35 | 20S | 34E | 638402 | 3599879 🍪 | 1871 | 1253 | 733 | 520 |
| CP 01335 POD1 | | CP | LE | 4 | 1 | 4 | 35 | 20S | 34E | 638205 | 3599736 | 2036 | 1307 | ,735 | 572 |
| CP 01288 POD1 | | CP | LE | 4 | 4 | 2 | 34 | 20S | 34E | 637134 | 3600204 | 2082 | 1255 | 758 | 497 |
| CP 01289 POD1 | | CP | LE | 4 | 4 | 2 | 34 | 20S | 34E | 637037 | 3600261 | 2108 | 1222 | 651 | 571 |
| CP 01330 POD1 | | CP | LE | 4 | 2 | 1 | 34 | 20S | 34E | 636197 | 3600483 | 2656 | 1349 | 684 | 665 |
| <u>CP 00800 POD1</u> | | CP | LE | 2 | 2 | 2 | 22 | 2 0S | 34E | 637007 | 3603994* | 2717 | 220 | | |
| CP 01352 POD1 | | CP | LE | 3 | 1 | 4 | 34 | 2 0S | 34E | 636559 | 3599715 | 2832 | 1270 | 785 | 485 |
| CP 01389 POD1 | | CP | LE | 1 | 1 | 1 | 34 | 20S | 34E | 635726 | 3600733 | 2985 | 1250 | 1005 | 245 |
| <u>CP 00799 POD1</u> | | CP | LE | 4 | 3 | 4 | 34 | 20S | 34E | 636666 | 3599364* | 3027 | 100 | | |

Average Depth to Water:

702 feet

Minimum Depth:

270 feet

Maximum Depth:

1005 feet

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 638534

Northing (Y): 3601746

Radius: 3220

*UTM location was derived from PLSS - see Help

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

12/16/17 9:15 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



TOPO! map printed on 02/24/18 from "Untitled.tpo" WGS84 Zone 13S 642000m E. e39000m E. 635000m E. 636000m E. 637000m E Sec. 19 sample 1 mile radius Libby Berry Fee SWD 1 Sec. 30 sample Map created CA0,100 National Geographic, ©2005 Tele Alfas, Rel. 8/2005 e3600m E. e3600m E. e3800m E. e3800m E. 640000m E.



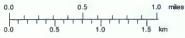


EXHIBIT G



Analytical Report

Lab Order 1801268

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/22/2018

CLIENT: Permits West

Client Sample ID: LB SWD Sec3

Project: Libby Bamy SWD Collection Date: 12/28/2017 1:46:00 PM

Lab ID: 1801268-001 Matrix: AQUEOUS Received Date: 1/5/2018 1:08:00 PM

| Analyses | Result | PQL (| Qual Units | DF | Date Analyzed |
|-------------------------------|----------|-------|------------|----|----------------------|
| EPA METHOD 300.0: ANIONS | | | | - | Analyst: MRA |
| Chloride | 170 | 10 | mg/L | 20 | 1/8/2018 9:27:03 PM |
| EPA METHOD 1664B | | | | | Analyst: dbf |
| N-Hexane Extractable Material | ND | 10.2 | mg/L | 1 | 1/15/2018 3:30:00 PM |
| SM2540C MOD: TOTAL DISSOLVE | D SOLIDS | | | | Analyst: KS |
| Total Dissolved Solids | 875 | 20.0 | *H mg/L | 1 | 1/9/2018 12:43:00 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1801268

Date Reported: 1/22/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: LS SWD Sec 19

Project:

Libby Bamy SWD

Collection Date: 12/28/2017 4:02:00 PM

Lab ID: 1801268-002

Matrix: AQUEOUS

Received Date: 1/5/2018 1:08:00 PM

| Analyses | Result | PQL (| Qual | Units | DF | Date Analyzed |
|-------------------------------|----------|-------|------|-------|----|----------------------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | 42 | 10 | | mg/L | 20 | 1/8/2018 9:51:53 PM |
| EPA METHOD 1664B | | | | | | Analyst: dbf |
| N-Hexane Extractable Material | ND | 10.4 | | mg/L | 1 | 1/15/2018 3:30:00 PM |
| SM2540C MOD: TOTAL DISSOLVE | D SOLIDS | | | | | Analyst: KS |
| Total Dissolved Solids | 411 | 20.0 | Н | mg/L | 1 | 1/9/2018 12:43:00 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801268

22-Jan-18

Client:

Permits West

Project:

Analyte

Libby Bamy SWD

Sample ID MB-36019

SampType: MBLK

TestCode: EPA Method 1664B

Client ID:

PBW

Batch ID: 36019

RunNo: 48441

Result

Prep Date: 1/15/2018 Analysis Date: 1/15/2018

LowLimit

PQL

SeqNo: 1557338

Units: mg/L HighLimit

%RPD **RPDLimit**

Qual

N-Hexane Extractable Material

ND 10.0

Sample ID LCS-36019

SampType: LCS

TestCode: EPA Method 1664B

Client ID: LCSW Prep Date:

Batch ID: 36019

RunNo: 48441

SeqNo: 1557339

Units: mg/L

Analyte

1/15/2018

Analysis Date: 1/15/2018

%REC SPK value SPK Ref Val 0

LowLimit

HighLimit

RPDLimit %RPD

Qual

SPK value SPK Ref Val %REC

114

36.2

10.0

78

N-Hexane Extractable Material

40.00

90.5

Н

Qualifiers: Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

ND Not Detected at the Reporting Limit

Practical Quanitative Limit **PQL** % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits Sample pH Not In Range

P

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Page 3 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801268

22-Jan-18

Client:

Permits West

Project:

Libby Bamy SWD

Sample ID MB

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBW

Batch ID: A48307 Analysis Date: 1/8/2018 RunNo: 48307

SeqNo: 1551319

Units: mg/L

Prep Date: Analyte

Result **PQL**

SPK value SPK Ref Val %REC

LowLimit HighLimit %RPD

RPDLimit Qual

Chloride

ND 0.50

Sample ID LCS

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSW Prep Date:

Analysis Date: 1/8/2018

RunNo: 48307

SeqNo: 1551320

LowLimit

90

Units: mg/L

Analyte

PQL

Batch ID: A48307

5.000

SPK value SPK Ref Val

%REC 95.7

%RPD

RPDLimit

Result 4.8

0.50

HighLimit

Qual

Chloride

110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J
- P Sample pH Not In Range RLReporting Detection Limit
- Sample container temperature is out of limit as specified

EXHIBIT G

Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801268

22-Jan-18

Client:

Permits West

Project:

Libby Bamy SWD

Sample ID MB-35893

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **PBW** Batch ID: 35893

RunNo: 48300

Prep Date: 1/7/2018

Analysis Date: 1/9/2018

Units: mg/L SeqNo: 1551157

Analyte

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit

RPDLimit Qual

Total Dissolved Solids

ND 20.0

SampType: LCS

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW

Batch ID: 35893

RunNo: 48300

Units: mg/L

Analysis Date: 1/9/2018

SeqNo: 1551158

SPK value SPK Ref Val %REC LowLimit

Result

Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified

Analyte detected below quantitation limits

Value above quantitation range

Sample pH Not In Range

Reporting Detection Limit

Total Dissolved Solids

1020

20.0

102

RPDLimit

PQL

1000

0

HighLimit

%RPD

%RPD

120

Page 5 of 5

Qual

Sample ID LCS-35893

Prep Date: 1/7/2018

Analyte



Η

Practical Quanitative Limit **PQL** % Recovery outside of range due to dilution or matrix



ND









Qualifiers:

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

Sample Diluted Due to Matrix

Not Detected at the Reporting Limit

E

J

P

RL



ATTACHMENT TO

FORM C-108

3Bear Field Services, LLC

Libby Berry Fee SWD #1

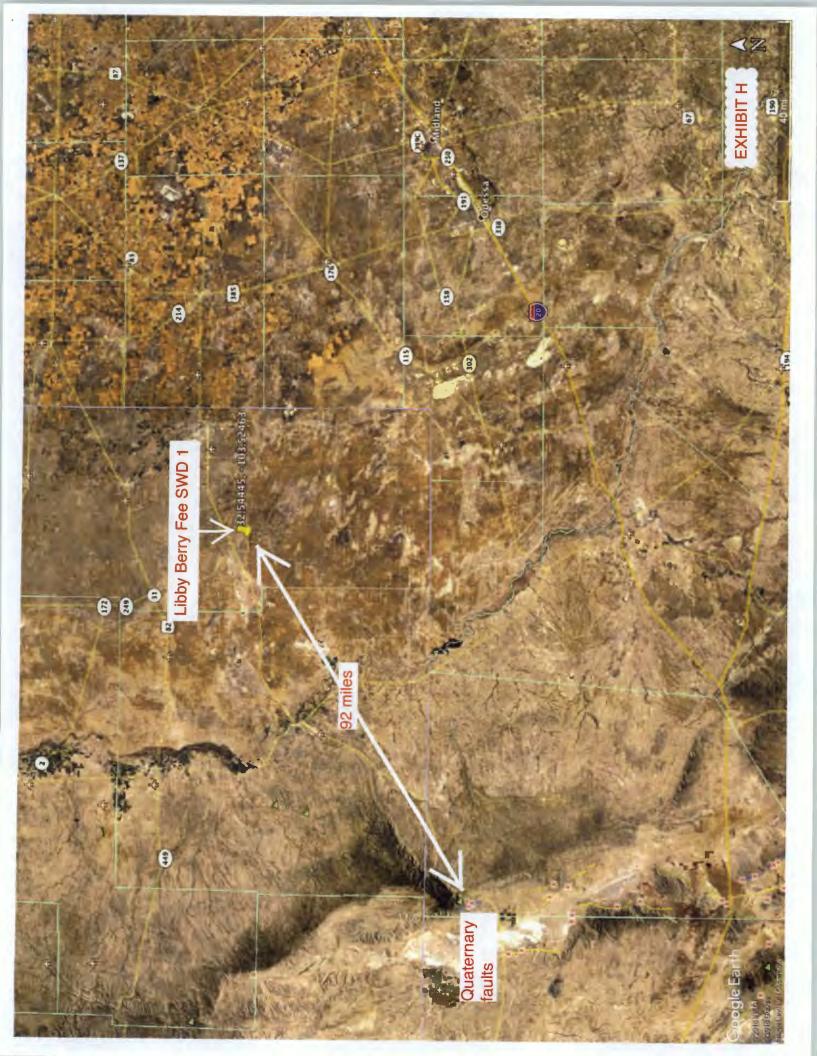
Unit Letter H, Section 26, T20S, R34E, N.M.P.M. Survey

Lea County, NM

Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

Date: 1-11-18





Affidavit of Publication

STATE OF NEW MEXICO **COUNTY OF LEA**

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

> Beginning with the issue dated December 20, 2017 and ending with the issue dated December 20, 2017.

Publisher

Sworn and subscribed to before me this 20th day of December 2017.

Business Manager

My commission expires

January 29, 2019

OFFICIAL SEAL GUSSIE BLACK Notary Public State of New Mexico

My Commission Expires 1-2

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

LEGAL NOTICE December 20, 2017

December 20, 2017

3Bear Field Services, LLC is applying to drill the Libby Berry Fee SWD 1 as a saltwater disposal well. Disposal will be in the Mississippian and Devonlan from 13,350 to 14,600. The well will be located 16 miles southwest of Monument, NM at 2510 FNL & 710 FEL Sec. 26, T. 20 S., R. 34 E., Lea County, Maximum disposal rate will be 25,000 bwpd. Maximum injection pressure will be 2,670 psi. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days, Additional Information can be obtained by contacting: Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120. #32359

02108485

BRIAN WOOD PERMITS WEST 37 VERANO LOOP SANTA FE, NM 87508 00204317



February 26, 2018

T Over V Ranch LLP PO Box 160 Eunice NM 88231

3Bear Field Services, LLC is applying (see attached application) to drill the Libby Berry Fee SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Libby Berry Fee SWD 1 (BLM lease) TD = 14,600'

Proposed Disposal Zone: Devonian (13,350' - 14,600')

Location: 2510' FNL & 710' FEL Sec. 26, T. 20 S., R. 34 E., Lea County, NM

<u>Approximate Location:</u> ≈16 air miles southwest of Monument, NM <u>Applicant Name:</u> 3Bear Field Services, LLC (575) 626-7100 <u>Applicant's Address:</u> 1512 Larimer St., Suite 540, Denver CO 80202

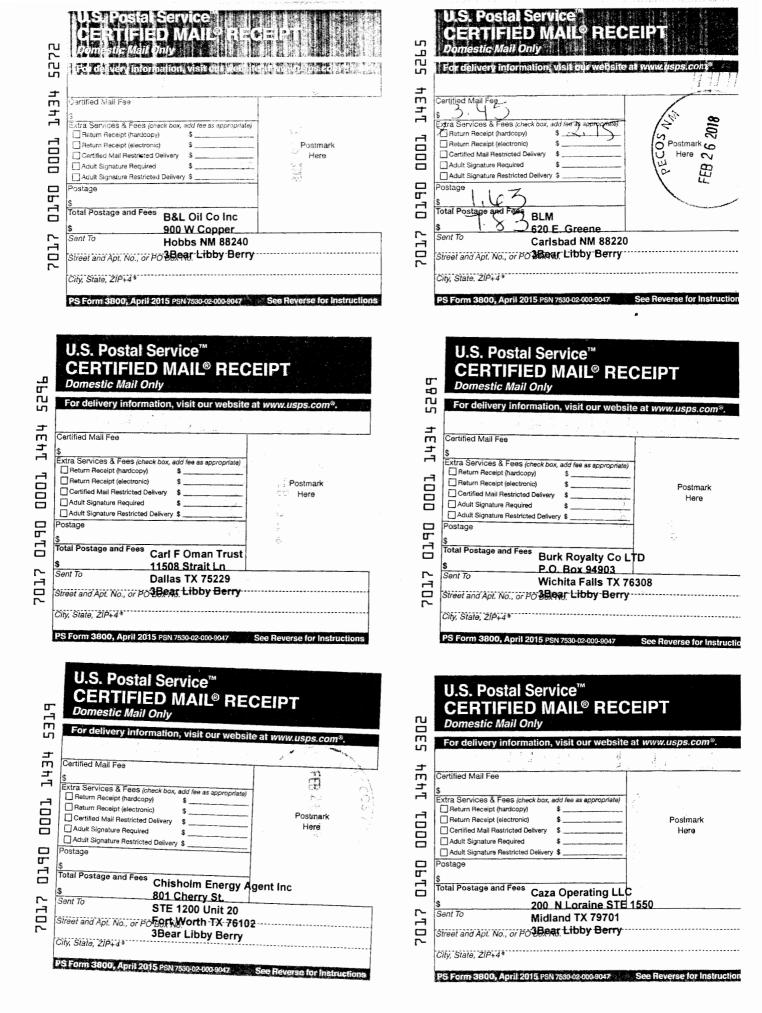
<u>Submittal Information:</u> Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. NMOCD address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Brian Wood

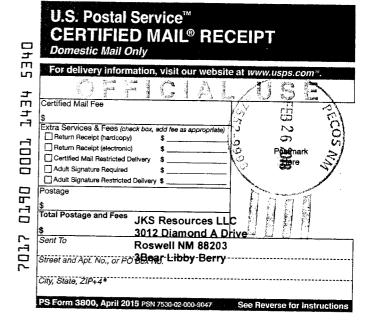




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| | D. Is delivery address different from item 1? Yes If YES, enter delivery address below: |
| Burk Royalty Co LTD | 1 140 |
| P.O. Box 94903 | |
| Wichita Falls TX 76308 | |
| 3Bear Libby Berry | |
| SDEAL LIDDY BETTY | 3. Service Type |
| | ☐ Adult Signature ☐ Registered Mail™ |
| | Certified Mail® |
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| so that we can return the card to you. | B. Received by (Printed Name) C. Date of Delive |
| Attach this card to the back of the mailpiece or on the front if space permits. | 11 |
| Article Addressed to: | D. Is delivery address different from Item 1? |
| | I TES, ONE CONTROL |
| Caza Operating LLC | |
| 200 N Loraine STE 1550 | |
| Midland TX 79701 | 1 |
| 3Bear Libby Berry | |
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| | ☐ Adult Signature Restricted Delivery ☐ Registered Mail Restri |
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| 9590 9402 3732 7335 6938 85 | ☐ Collect on Delivery ☐ Signature Confirmation |
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| or on the front if space permits. | 3// |
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| Chisholm Energy Agent Inc | II TES, SINGI GENTON, GUGICOS ESCON. |
| 801 Cherry St. | i |
| STE 1200 Unit 20 | |
| Fort Worth TX 76102 | |
| 3Bear Libby Berry | 3. Service Type □ Priority Mail Express® □ Registered Mail™ □ Registered Mail™ □ Restricted Delivery □ Registered Mail® |
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| Attach this card to the back of the mailpiece, or on the front if space permits. | B. Received by (Printed Name) C. Date of Deliver |
| Article Addressed to: | D. Is delivery and facts different work item 1? Yes |
| Cimarex Energy Co of Colorado | If YES, enter delivery address below: |
| 1700 Lincoln St | CIMAREX ENERGY CO. |
| STE 1800 | Om. " |
| Denver CO 80203 | |
| 3Rear Libby Rerry | 3. Service Type Priority Mail Express® |
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| SENDER: COMPLETE THIS SECTION | COMPLETE THIS SECTION ON DELIVERY |
| | A. Signature |
| Complete items 1, 2, and 3. Print your name and address on the reverse | ☐ Agent |
| so that we can return the card to you. | B. Received by (Printed Name) C. Date of Delivery |
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| 1. Article Addressed to: | D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No |
| | If YES, enter delivery address bolow. |
| COG Operating LLC 600 W Illinois Ave | |
| Midland TX 79701 | |
| | |
| 3Bear Libby Berry | 3. Service Type |
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| Attach this card to the back of the mailpiece, | B. Received by (Printed Name) C. Date of Delivery |
| or on the front if space permits. 1. Article Addressed to: | KAThryd Smith |
| 1. Article Addressed to: | D. Is delivery address different from Item 1? Yes If YES, enter delivery address below: No |
| JKS Resources LLC | If YES, enter delivery address below: No |
| 3012 Diamond A Drive | • |
| Roswell NM 88203 | |
| 3Bear Libby Berry | |
| TIE SINISI POLITICAL DE LA CONTRACTOR DE | 3. Service Type |
| | ☐ Adult Signature ☐ Registered Mali™ |
| 9590 9402 3732 7335 6939 22 | ☐ Certified Mail® Delivery ☐ Return Receipt for |
| 2 Article Number (Transfer from service label) | ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation™ |
| 7017 0190 0001 1434 5340 | Mail Signature Confirmation Mail Restricted Delivery Restricted Delivery |
| PS Form 3811, July 2015 PSN 7530-02-000-9053 | Domestic Return Post (|
| | Domestic Return Receipt |
| SENDER: COMPLETE THIS SECTION | COMPLETE THIS SECTION ON DELIVERY |
| ■ Complete items 1, 2, and 3. | A. Signature |
| Print your name and address on the reverse | |
| so that we can return the card to you. | □ Addressee |
| Attach this card to the back of the mailpiece, or on the front if space permits. | B. Received by (Printed Name) C. Date of Delivery |
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| Kerr-McGee | YES anter delivery addition below |
| C/O Anadarko | MAR 0 1 2018 |
| 1201 Lake Robbins Dr. | \ 2018 |
| The Woodlands TX 77380 | |
| 3Rear Libby Porms | 0.000 |
| | Service Type Adult Signature ☐ Registered Mail™ |
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| | Certified Mail Restricted Delivery Collect on Delivery Collect on Delivery Restricted Delivery Collect on Delivery Restricted Delivery Signature Confirmation Signature Confirmation |
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| so that we can return the card to you. | X |
| Attach this card to the back of the mailpiece, or on the front if space permits. | B. Beceived by (Printed Name) C. Date of Delivery |
| Article Addressed to: | D. Is delivery address different from item 1? Yes |
| McBrido Oil 9 C C | If YES, enter delivery address below: |
| McBride Oil & Gas Corp P.O. Box 1515 | |
| Roswell NM 88202 | |
| 20 | |
| 3Bear Libby Berry | L |
| 1 3 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Registered Moults |
| | ☐ Adult Signature Restricted Delivery ☐ Registered Mail Restricted |
| 9590 9402 3732 7335 6939 53 | ☐ Certified Mail Restricted Delivery ☐ Return Receipt for |
| 2. Article Number (Transfer from service label) | ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation™☐ Signature Confirmation |
| 7017 0190 0001 1434 5 | 3 & Restricted Delivery Restricted Delivery |

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| Attach this card to the back of the mailpiece, | B. Received by (Printed Name) C. Date of Deliver |
| or on the front if space permits. | G-ROSE RS 103-02-18 |
| Article Addressed to: | D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No |
| Myers Corwin | If YES, enter delivery address below: No |
| P.O. Box 823085 | |
| Dallas TX 75382 | 1 |
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| 1/4 M(4) M(5 M() (M) (1) (1) (1) (1) (1) (1) (| 3. Service Type □ Priority Mall Express® □ Adult Signature □ Begintered Mall III |
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| Attach this card to the back of the mailpiece, or on the front if space permits. | B. Received by (Printed Name) C. Date of Delivery |
| Article Addressed to: | D. Is delivery address different from Item 1? 🔲 Yes |
| | If YES, enter delivery address below: |
| Myers Harold S III | |
| P.O. Box 823085 | |
| Dallas TX 75382 | |
| 3Bear Libby Berry | |
| Shear Libby Berry | 3. Service Type ☐ Priority Mail Express® |
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| | DECertified Mail® Delivery |
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| 9590 9402 3732 7335 6939 84 | ☐ Collect on Delivery Merchandise |
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| Article Number (Transfer from service label) 7 | Collect on Delivery Merchandise Signature Confirmation Signature Confirmation Restricted Delivery Signature Confirmation Restricted Delivery Domestic Return Receipt Domestic Return |

| Complete items 1, 2, and 3. | A. Signature |
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| Print your name and address on the reverse so that we can return the card to you. | X 2c Addressee |
| Attach this card to the back of the mailpiece, | B. Received by (Printed Name) C. Date of Delivery |
| or on the front if space permits. | C · (C = 3 = 03 - 02 - 18 |
| 1. Article Addressed to: | D. Is delivery address different from Item 1? |
| Nearburg Prod Co Employee Fund | i Artinia |
| P.O. Box 823085 | www.ec. |
| Dallas TX 75382 | |
| 3Bear Libby Berry | |
| 0.10 30 30 30 10 10 10 10 10 10 10 10 10 10 10 10 10 | 3. Service Type ☐ Priority Mail Express® ☐ Adult Signature ☐ Registered Mail™ |
| | ☐ Adult Signature Restricted Delivery ☐ Registered Mail Restricted ☐ Delivery ☐ Delivery |
| 9590 9402 3732 7335 6940 04 | ☐ Certified Mail Restricted Delivery ☐ Return Receipt for ☐ Collect on Delivery ☐ Merchandise |
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| | COMPLETE THIS SECTION ON DELIVERY |
| SENDER: COMPLETE THIS SECTION | A Signature // A |
| ■ Complete items 1, 2, and 3. | Agent |
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| so that we can return the card to you. Attach this card to the back of the mailpiece, | B. Hagelved by 151111100 1 1 1 1 2 - 02 - 1 X |
| or on the front if space permits. | D. Is delivery address different from item 1? No No |
| Article Addressed to: | D. Is delivery address different from team. If YES, enter delivery address below: |
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| Tobosa Exploration Inc | |
| P.O. Box 823085 | 1 |
| | |
| Dallas TX 75382 | |
| | ☐ Priority Mail Express® |
| Dallas TX 75382 3Bear Libby Berry | 3. Service Type ☐ Priority Mall Express® ☐ Registered Mall™ ☐ Registered Mall™ ☐ Registered Mall Restricts |
| 3Bear Libby Berry | ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Delivery ☐ Delivery ☐ Delivery |
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COMPLETE THIS SECTION ON DELIVERY

SENDER: COMPLETE THIS SECTION

USPS Tracking®

Track Another Package +

Tracking Number: 70170190000114345449

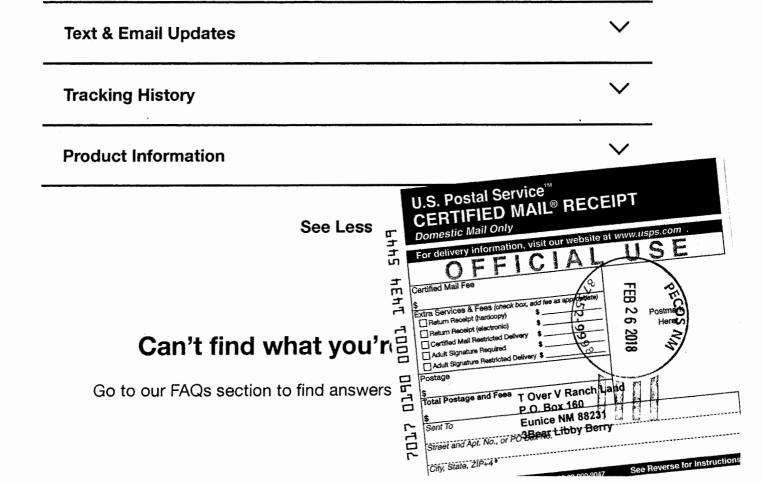
Remove X

Your item has been delivered and is available at a PO Box at 10:17 am on March 1, 2018 in EUNICE, NM 88231.

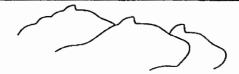
Oblivered

March 1, 2018 at 10:17 am Delivered, PO Box EUNICE, NM 88231

Get Updates ✓







3BEAR DELAWARE OPERATING - NM, LLC

Michael McMillian NMOCD 1220 South St. Francis Dr. Santa Fe, NM 87505

Re: Application of 3 Bear Field Services, LLC to Drill and Inject on Libby Berry Fee SWD #1

Dear Mr. McMillian,

3 Bear Delaware Operating-NM, LLC, as record title owner, approves the use of the surface property for drilling and injection of referenced well.

Sincerely,

Scott Spicher Vice President

MAR 09 2018 PMO4:44

| FORM C-108 | B Technical F | Review Summary | [Prepared b | y reviewer and include | d with application; V16.2] |
|--------------------------------------|--|---------------------------------|-------------------------------|-------------------------------|-------------------------------------|
| DATE RECORD: F | irst Rec: 2/9/18 | Admin Complete: 3/10 | 的 or Sus | spended: | Add. Request/Reply: |
| ORDER TYPE: WF | X / PMX SWD N | umber: <u>1728</u> Order | · _{Date:} <u>ර</u> ෙ | 2/18 Legacy Permits | s/Orders: |
| Well No Well Name(s): | Libby Berry | y Fee SWD | | | |
| API: 30-0 25-44288 | Spud Da | te: 03/23/2018 N | lew or Old (| EPA): New (UIC CI | ass II Primacy 03/07/1982) |
| Footages 25/0 FNL 7/0 F | | | | 1 | |
| General Location: 15 mi Nof | MAIT/ Jail mi | E CHALLING DOOR | 3 m C D | 21/00in 1 | Dool No. 9 (a10) |
| BLM 100K Map: Hobbs | | | | | |
| COMPLIANCE RULE 5.9: Total Wells | | | | | , , |
| WELL FILE REVIEWED Current | Status: Drillin | g: amended C-10 | 1 submit | ted 3/20/18-US | ed for well 100/02/180 |
| WELL DIAGRAMS: NEW: Proposed | | \supset | | C. | mstruction of application |
| TELE DIAGRAMO. NEW Troposed | o or ne entern | Bololo Colle. O Allor Co | 5.1.7. | ogo III III agii igi <u> </u> | |
| Planned Rehab Work to Well: | | | | | |
| Well Construction Details ★ | Sizes (in) Borehole / Pipe | Setting Depths (ft) | | Cement Sx)or Cf | Cement Top and Determination Method |
| Planned or Existing Surface | 171/2 133/8 | 0 to 1650 | Stage Tool | 1250 | Circulate to surface |
| Planned_or Existingnterm/Prod | 121/4/ 95/8 | 0 to 5700 | [None] | 700 | Circulate to sulface |
| Planned_or ExistingInterm Prod | 83/4/7 | 0 to 14,450 | L noted 1 | 2650 | Circulate to surface |
| Plannedor Existing Prod/Liner | ' | | - | 1 | |
| Planned_or Existing Liner | | 1,12250 to 14600 | - | | _ |
| Planned_Lor ExistingOH PERF | 6/18 AF | - 14450 to 16000* | Inj Length | Completion | Operation Details: |
| Injection Lithostratigraphic Units: | Depths (ft) | Injection or Confining Units | Tops | Drilled TD | PBTD |
| Adjacent Unit: Litho. Struc. Por. | | Mississippon | | NEW TD | NEW PBTD |
| Confining Unit: Litho. Struc. Por. | | Wood-ford | 14. | NEW Open Hole 🕢 | or NEW Perfs Q |
| Proposed Inj Interval TOP: | 14450 | Devonia | <i>1445</i> 0 | | in. Inter Coated? Yes |
| Proposed Inj Interval BOTTOM: | | | | Proposed Packer De | |
| Confining Unit: Litho. Struc. Por. | art or a statistical section of the second section of the section of the second section of the section of the second section of the second section of the sec | Sibrian | <u>~</u> | · · | 13250 (100-ft limit) UNING OFIGURAL |
| Adjacent Unit: Litho. Struc. Por. | nd Caolagia In | Montoya | | Proposed Max. Surf | ace 1500. |
| AOR: Hydrologic a | | | r # 0-140-1 | Admin. Inj. Press. | 0.2 psi pei 10 |
| FRESH WATER: Aquife Sunday | loruhned . In | 1 1/00 | UINEA HYDRO | | NW: Cliff House fm #7 \ |
| NMOSE Basin: Cupitan CAP | | • 🔨 | | n 1-Mile Radius? | history Analysis? 2 |
| Disposal Fluid: Formation Source(s | Permian / Y | -SR-Penn Analysis? | <u>Yes</u> on | Lease Operator O | nly Or Commercial |
| Disposal Interval: Inject Rate (Avg/ | 2000/ Max BWPD):< 25 | Protectable W | /aters? √o | Source: Historical | System: Closed of Open |
| HC Potential: Producing Interval? | No_Formerly Pro | ducing? 16 Method: Lo | ogs/DST/P& | A/Other Mudlog | 2-Mi Radius Pool Map 🕅 🕹 |
| AOR Wells: 1/2-M Radius Map ar | nd Well List? | No. Penetrating Wells: | ф г | AOR Horizontals: | AOR SWDs:] |
| Penetrating Wells: No. Active Well | i s_ b _Num Repair: | s?on which well(s)?_ | <i> </i> - | | Diagrams? |
| Penetrating Wells: No. P&A Wells | Num Repairs? | on which well(s)? | | | Diagrams? |
| NOTICE: Newspaper Date 12 2 | 0 2017 Mineral | Owner BLM Z Notice | d | owner Fee 3Bea | 10 |
| RULE 26.7(A): Identified Tracts? | | | | e+operator+min | 7 70 |
| 4. | | li formation top | Variable | * due to ame | nded C-101 |
| Additional COAs: Mudlog + | log svite; | formation picks | amend | doplh | |

District 1 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)

State of New Mexico

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources Oil Conservation Division

MAMENDED REPORT

| ZONE |
|---------------|
| ZONE |
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| | T | 13 | C | ble/ | Pota | 5 | | | |

| N Work Type | S | Well Type | 13 Cable/Rotary R | Fee Lease | Type 15 Ground Level Elevation 3620 |
|-------------------------------------|-----------------|------------------------|--------------------------|------------|--|
| ¹⁶ Multiple | 17 Pro 16000 | pposed Depth | 18 Formation Devonian | Silver Oak | 3/22/18 Spud Date |
| Depth to Ground water 100 - 1200 | | Distance from 3/4 mile | nearest fresh water well | | Distance to nearest surface water 10 miles |

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

21. Proposed Casing and Cement Program

| Туре | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|--------------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surface | 17.5" | 13 3/8 | 54.5 | 1650 | 1250 | Surface |
| Intermediate | 12.25 | 9 5/8 | 43.5 | 5700 | 700 | Surface |
| Production | 8.75 | 7 | 29 | 14,450 | 2650 | Surface . |

Casing/Cement Program: Additional Comments

A 6 1/8" hole will be drilled from 14,450' to 16,000' and the well will be completed as an SWD in the open Devonian

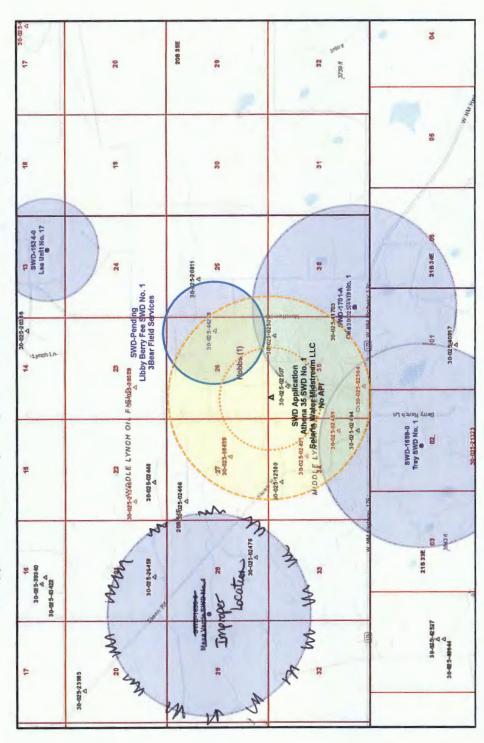
22. Proposed Blowout Prevention Program

| Туре | Working Pressure | Test Pressure | Manufacturer |
|------------------|------------------|---------------|--------------|
| Annulare and Ram | 5000 psi | 250/3000 | Shaffer |

| ^{23.} I hereby certify that the information given above is true and complete to the best of my knowledge and belief. | OIL CONSERVATION DIVISION |
|---|---|
| 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: | Approved By: |
| Printed name: Phelps White | Title: Petroleum Engines |
| Title: Consultant | Approved Date: 03/19/18 Expiration Date: 12/15/19 |
| E-mail Address: pwiv@zianet.com | |
| Date: 3/17/18 Phone: 575 626 7660 | Conditions of Approval Attached |

Note: This Ammendment is due to reveiw of the original C101 approved 12/15/17 which found erroneous geologic tops. This ammended plan mirrors the successfull design used by Fasken Oil and Ranch, Ltd on thier Quail 16 St SWD located

C-108 Application for Libby Berry Fee SWD No. 1 - 3Bear Field Services, LLC Pending Application for High-Volume Devonian Disposal Well



Libby Berry Fee SWD No. 1; 3Bear Field Services LLC - Note: This well will not support tubing greater than 4.5-inch due to production casing size (1/2-mile AOR)

API 30-025-44288; Application No. pMAM1807236254

Proposed interval: 14,450' to 16,000'

Closest Devonian Wells with Large-Volume Potential: Approved: Okerlund SWD No. 1 (30-025-43535) and Trey SWD No. 1 (30-025-Pending); both Mesquite SWD Inc. permits. Proposed: Athena 35 SWD No. 1 (30-025-Pending); Solaris Water Midstream LLC. Remaining SWD locations are shallower disposal intervals (mostly Seven Rivers-Yates and some DMG).

C-108 Application for Libby Berry Fee SWD No. 1 - 3Bear Field Services, LLC R-111-P Notification

Within the Secretary's Potash Order, but not within Order No. R-111-P. No potash leases identified on BLM MTP for township (no POT plat or record of leases in Historical Indices). BLM was noticed.



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Goetze, Phillip, EMNRD

From: Rory McMinn <rory@rmcminn.com>
Sent: Tuesday, May 1, 2018 4:21 PM

To: Goetze, Phillip, EMNRD

Cc: Jones, William V, EMNRD; McMillan, Michael, EMNRD; Kevin Burns; Phelps White

Subject: Re: Libby Berry Fee SWD #1

Thank you Phillip. See below, please.

I have also copied Kevin Burns, who was with me today and Phelps White of Primero Services, LLC, on-site Drilling Consultant so that we can get the data to you as quickly as possible.

Rory

On 5/1/2018 3:35 PM, Goetze, Phillip, EMNRD wrote:

Rory:

I went through the Libby application and have found a few items that I need to bring to your attention.

- 1. The C-108 application publication notice describes both "Mississippian and Devonian". I'm assuming that the Devonian is the only target. Please verify in an e-mail response. The target zone is devonian. We topped the devonian with bit. We are into the formation approximately 50 feet +/- for a casing set point so that the shale above is not impacted by shoe and etc.
- 2. I understand that the well is being drilled and would request a mud log for the Devonian along with a simple geophysical log suite. If the geophysical suite is only possible, make it such that the hydrocarbon potential of the pen-hole interval can be assessed and tops of the formations can be picked. Typically we require a mud log as a Condition of Approval to ensure no resources in the Devonian are impacted. It was my mistake today. I thought about the mud log for you late yesterday and didn't follow through. If you have a digital format which you would like to receive it we will save it to that format and send digitally. If not, we will print a couple of copies and send to you.

Also, the logs will allow for NMOCD to amend the SWD order with correct depths without notice due to limited stratigraphic control . The C-108 application was based on depths selected prior to the amended C-101 (APD) being approved by the Hobbs District Geologist (Paul) in March. The application also advertised these depths in the notice (paper and affected persons). As a means of addressing this difference, the order will be amended following completion with the formation tops selected by the operator. Just make sure that the open-hole interval is only Devonian. We will run a full suite of open hole logs back to the setting depth of the 9-5/8" casing at approximately 1,750'to 1,850' (doing this from memory). So the open hole logs will be run the end of this week and coopies will be sent to you.

3. Also, a standard Condition of Approval is for an SWD order is to require a CBL for any casing where cement is not circulated to surface. CBL, Gamma and CCL tool will be run after a set time of 24 hours and before the rig commences ddrilling out from under 7" casing.

These are my only items I found in my review of the C-108 and wanted to contact you as soon as possible to make arrangements for the requirement the Division is placing in Devonian SWD orders. Please contact me with any questions or to discuss the content of this e-mail. Thanks for stopping by, the personal touch does get results. PRG

Phillip Goetze, PG Engineering Bureau, Oil Conservation Division, NM EMNRD 1220 South St. Francis Drive, Santa Fe, NM 87505

Direct: 505.476.3466

E-mail: phillip.goetze@state.nm.us

----Original Message-----

From: Rory McMinn <a href="mailto:srory@rmcminn.com

To: Jones, William V, EMNRD ; Goetze, Phillip, EMNRD

<Phillip.Goetze@state.nm.us>
Subject: Libby Berry Fee SWD #1

Will & Phillip,

Any opportunity to expedite the application to inject on the 3Bear Field Services, LLC's Libby Berry Fee SWD #1 in 20S, 34E?

Rory McMinn 575/626-7100 Cell

PΚ[

Township 20 South Range 34 East of the New Mexico Principal Meridian, New Mexico

County: Lea - 025

BLM Field Office: Carlsbad

BUREAU OF LAND MANAGEMENT STATUS OF PUBLIC DOMAIN LAND AND MINERALS

Entire Township included in:
EO Wdl NM 1 Pot Res 6 (3/11/1926)
Designated Pot Area SO 10/7/1975 (Partial)
Cl of Public Lands NM 0560202 (Cl No 30-06-01)

MTP TZOS R34E

DC-21 No DCATAN PM307 DCAVM TO20988 DPC AR MAN 1202902 DC 938036 OTC All Man 36 13 24 25 OCATAN 809215 DrC 985182 DIC AB MAn 1202902 DPC 23 SOUZES DICARMA 1054087 DPC OG Pdf Sod 1023332 DICANIAN 1028612 DC 40 Am 34 10 22 DICAL MAN 1087055 G/C At Mis 1207902 D.C 829 22 -28 33 16 51 1707802 DVC 17 20 33 32 287979 DYC A# Men 19 30 3 18 973788 DICALIMA

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