

RECEIVED: 3/29/2018	REVIEWER:	TYPE: SWD	APP NO: PMAM1808855 135
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ABOVE THIS TABLE FOR OGD DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Applicant: 3Bear Field Services, LLCOGRID Number: 372603Well Name: Cottonwood Fee SWD 1API: ~~30-025-14288~~ **30-015-44600**Pool: SWD; Devonian-SilurianPool Code: 97869

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

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

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

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

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

☐ WFX☐ PMX☒ SWD☐ IPI☐ EOR☐ PPR

MAR 29 2018 AM 03:52

2) NOTIFICATION REQUIRED TO: Check those which apply.

A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required

FOR OCD ONLY

☐ Notice Complete
☐ Application
 Content
 Complete

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

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

Brian Wood

Print or Type Name

Signature

3-28-18

Date

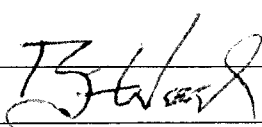
505 466 8120

Phone Number

brian@permitswest.com

e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- 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.
- VII. Attach data on the proposed operation, including: Cottonwood Fee SWD 1
30-015-44600
(Devonian-Silurian (97869))
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: BRIAN WOOD  TITLE: CONSULTANT
SIGNATURE: _____ DATE: MAR. 13, 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.

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INJECTION WELL DATA SHEET

Side 1

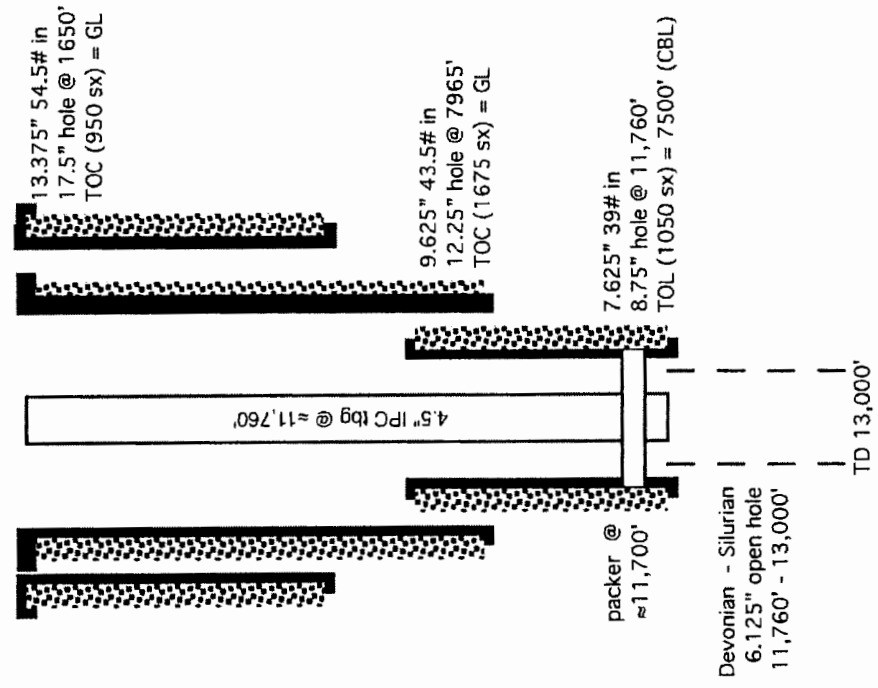
OPERATOR: 3BEAR FIELD SERVICES, LLC

WELL NAME & NUMBER: COTTONWOOD FEE SWD 1

WELL LOCATION: 330' FSL & 1662' FEL
FOOTAGE LOCATION
UNIT LETTER: 0
SECTION: 19
TOWNSHIP: 26 S
RANGE: 26 E

WELBORE SCHEMATIC

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"
Cemented with: 950 sx. or ft³
Top of Cement: SURFACE Method Determined: VISUAL

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"
Cemented with: 1675 sx. or ft³
Top of Cement: SURFACE Method Determined: VISUAL

Production Casing
Liner

Hole Size: 8.75" Casing Size: 7.625" @ 11,760'
Cemented with: 1050 sx. or ft³
Top of Cement: 7500' Method Determined: CBL
Total Depth: 13,000'

Injection Interval

11,760 feet to 13,000'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 4.5" Lining Material: IPC

Type of Packer: STAINLESS STEEL &/OR NICKEL W/ TEFLON RING

Packer Setting Depth: ≈11,700'

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

Additional Data

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

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

2. Name of the Injection Formation: DEVONIAN & SILURIAN
3. Name of Field or Pool (if applicable): SWD; DEVONIAN - SILURIAN (POOL CODE 97869)

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

NO

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

OVER: DELAWARE (1625') & BONE SPRING (5010')

UNDER: none

Bob

3BEAR FIELD SERVICES, LLC
COTTONWOOD FEE SWD 1
330' FSL & 1662' FEL
SEC. 19, T. 26 S., R. 26 E.
EDDY COUNTY, NEW MEXICO

PAGE 1

30-015-44600

I. Goal is to drill a 13,000' deep commercial saltwater disposal well on fee surface. Proposed disposal interval will be 11,760' - 13,000' in the SWD; Devonian-Silurian (97869) 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: fee Lease Size: 320 acres Closest Lease Line: 330'
Lease Area: SE4 Sec. 19 et al, T. 26 S., R. 26 E.

A. (2) Conductor (20", 94#, H-40, buttress) will be set at 150' in a 26" hole and cemented to GL with 350 sacks Class C + KCl.

Surface casing (13.375", 54.5#, J-55, ST&C) will be set at 1650' in a 17.5" hole and cemented to GL. Lead with 775 sacks Class C + 2% KCl + cello flake + bentonite extender. Tail with 175 sacks Class C + 1% PF1 calcium.

Intermediate casing (9.625", 43.5#, HCL-80, LT&C) casing will be set at 7965' in a 12.25" hole and cemented to GL. Lead with 1380 sacks 50/50 P/H + 5% BWOW & salt + 10% bentonite gel + cello flake. Tail with 295 sacks Class 50/50 P/H + 2% PF20 gel + 3% fluid loss.

Production liner (7.625", 39#, HCP-110, UFJ) will be set at 11,760' in an 8.75" hole and tied-back and cemented to 7500' (i. e., 465' above intermediate shoe) with 1050 sacks Class H 50/50 + 2% bentonite gel + 5% fluid loss. CBL will be used to verify TOC.

Well will be completed open hole (6.125") from 11,760' to 13,000'.

3BEAR FIELD SERVICES, LLC
COTTONWOOD FEE SWD 1
330' FSL & 1662' FEL
SEC. 19, T. 26 S., R. 26 E.
EDDY COUNTY, NEW MEXICO

PAGE 2

30-015-44600

- A. (3) IPC tubing (4.5" 12.75#, P-110, with Teflon ring) will be set at $\approx 11,650'$. (Disposal interval will be 11,760' to 13,000'.)
- A. (4) Packer assembly will be set at $\approx 11,700'$. (Disposal interval will be 11,760' to 13,000'.) Packer will be a nickel plated 7", 28-32#, ASIX.
- B. (1) Disposal zone will be the SWD; Devonian - Silurian (97869).
- B. (2) Disposal interval will be 11,760' to 13,000'.
- B. (3) This well will be drilled as a saltwater disposal well.
- B. (4) Well was has not yet been drilled.
- B. (5) No Devonian or Silurian producer is within a minimum radius of 7706'. Closest NM Devonian producer is 55 miles northeast in 27-18s-31e. Closest NM Silurian producer is 71 miles northeast in 32-21s-37e.

Bone Spring produces from above the Devonian in the area of review. Morrow was tested, but found to be dry. No zone produces from below the Silurian 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 two existing wells (1 P&A + 1 oil) within a half-mile. Exhibit C shows all 35 existing wells (11 oil or gas wells + 9 P & A wells + 15 water wells) within two-miles.

Exhibit D shows all leases and lessors (only BLM and fee) 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:

3BEAR FIELD SERVICES, LLC
 COTTONWOOD FEE SWD 1
 330' FSL & 1662' FEL
 SEC. 19, T. 26 S., R. 26 E.
 EDDY COUNTY, NEW MEXICO

PAGE 3

30-015-44600

Aliquot Parts in Area of Review (T26S, R26E)	Lessor	Lease	Lessee(s) of Record	Well Operator
S2NE4, SENW, SW4 Sec. 19	BLM	NMNM-103597	Echo	COG
SE4 Sec. 19	fee	fee	Chevron, Guadalupe, Marathon, MRC	N/A
W2SW4 Sec. 20	fee	fee	Chevron, Guadalupe, Marathon, MRC	N/A
W2NW4 Sec. 29	BLM	NMNM-113944	Chisholm	Chisholm
N2NW4, & SENW Sec. 30	BLM	NMNM-108461	Echo	COG
NE4 Sec. 30	BLM	not leased	N/A	N/A

VI. Deepest well within a 2640' radius is 10,797' TVD. Top of the proposed disposal interval is 11,760'.

- VII. 1. Average injection rate will be \approx 20,000 bwpd.
 Maximum injection rate will be 25,000 bwpd.
2. System will be open.
3. Average injection pressure will be \approx 2000 psi. Maximum injection pressure will be 2352 psi ($= 0.2 \text{ psi/foot} \times 11,760' \text{ (top of open hole)}$).
4. No problems have been reported disposing into the closest SWD; Devonian wells. To date - 3,128,783 barrels have been disposed in 30-015-42348 (4 miles NW) and 5,360,289 barrels have been disposed in 30-015-42356 (5 miles NE). No active SWD; Silurian wells are nearby.

Main source of the disposal water will be produced water from Bone Spring wells. There are 243 active or new Bone Spring wells in T. 26 S., R. 26 E. and the five bordering or cornering townships in New Mexico.

Main source of the disposal water will be produced water from Bone Spring wells. There are 243 active or new Bone Spring wells in T. 26 S., R. 26 E. and the five bordering or cornering townships in New Mexico. However, water produced from the Delaware, Wolfcamp, Pennsylvanian, deep gas zones, etc. could also be disposed. Water analyses from Go-Tech in T. 25 & 26 S., R. 27 E. are in Exhibit F.

5. No Devonian or Silurian producer is within ≥ 55 miles in New Mexico. Water analyses from Delaware, Bone Spring, and Morrow wells in T. 25 & 26 S., R. 27 E. are in Exhibit F. Eleven Devonian samples are also in Exhibit F. TDS for the eleven are $\geq 20,450$.

VIII. The Devonian is a cherty limestone. Silurian has limestone and dolomite intervals. Closest possible underground source of drinking water above the proposed disposal interval is the Quaternary in the top 140'. Office of the State Engineer (Exhibit G) records show eight water wells within a mile. A water well and spring within a mile were sampled on January 17, 2018. Sample points and results are in Exhibit G. No underground source of drinking water is below the proposed disposal interval. Estimated tops are:

Quaternary = 0'
Castile = 85'
Delaware = 1625'
Bone Spring = 5010'
Wolfcamp = 7970'
Strawn = 9535'
Atoka = 9660'
Morro = 10,310'
Barnett = 11,070'
Mississippian = 11,460'
Woodford = 11,650'
Devonian - Silurian = 11,755'
top of open hole = 11,760'
TD = 13,000'

3BEAR FIELD SERVICES, LLC
COTTONWOOD FEE SWD 1
330' FSL & 1662' FEL
SEC. 19, T. 26 S., R. 26 E.
EDDY COUNTY, NEW MEXICO

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30-015-44600

There will be >2 miles of vertical separation and >1,000' anhydrite and salt between the bottom of the only likely underground water source within 2-miles and the top of the Devonian. The Capitan Reef is 11 miles northwest. Two Devonian wells are within 5 miles. A minimum of 3,128,783 barrels have been disposed in 30-015-42348 (4 miles NW) and 5,360,289 barrels have been disposed in 30-015-42356 (5 miles NE). No active SWD; Silurian wells are nearby.

IX. Well will be stimulated with acid to clean out scale or fill.

X. CBL will be run to check TOC.

XI. A spring and a water well within a mile were sampled during a January, 2018 field inspection. See Exhibit G.

XII. 3Bear Field Services, LLC (Exhibit H) 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 190 active or new Devonian disposal wells and 19 active or new Silurian disposal wells in New Mexico. Closest Quaternary fault (Guadalupe) is ~30 miles southwest (Exhibit H).

XIII. A legal ad (see Exhibit I) was published on December 19, 2017. Notice (this application) has been sent (Exhibit J) to the surface owner (David & Laverne Maley), BLM, lessees (Chevron, Chisholm, Echo, Guadalupe Land & Minerals, Marathon, MRC), operating right holders (Abo, Chevron Midcontinent, COG, Concho, Marbob, MYCO, Nearburg, Oxy USA, Oxy USA WTP, Oxy Y-1, Strategic Energy, The Allar Co., Yates Pet.) and all well operators (COG) or other affected persons within a half-mile.

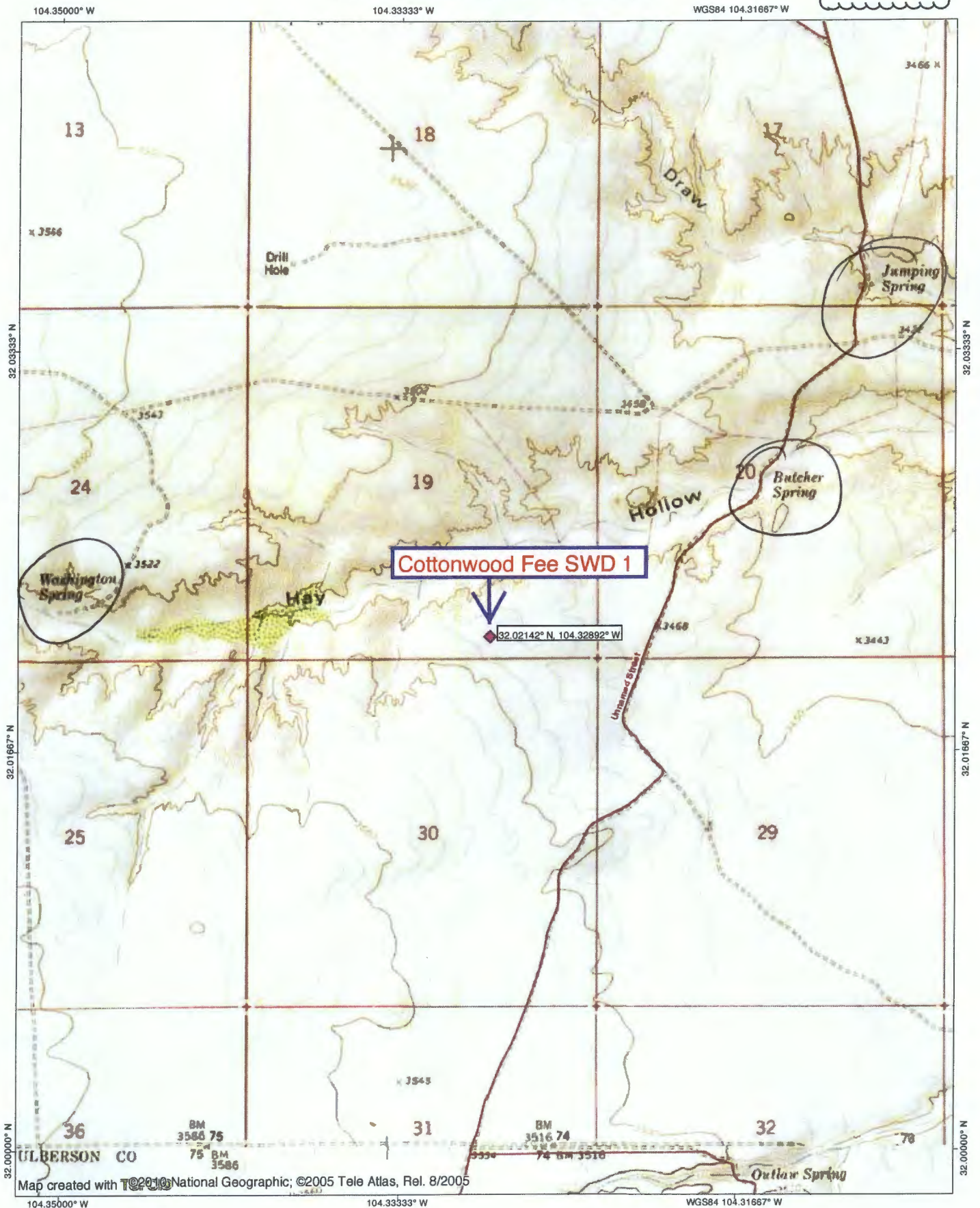


EXHIBIT A

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

JAN 05 2018

Revised August 1, 2011

Submit one copy to appropriate

District Office

RECEIVED

☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44600	² Pool Code 97869	³ Pool Name SWD; Siluro-Devon
⁴ Property Code 320498	⁵ Property Name COTTONWOOD FEE SWD	
⁶ OGRID NO. 372603	⁷ Operator Name 3BEAR FIELD SERVICES, LLC	
		⁸ Well Number 1
		⁹ Elevation 3483'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	19	26S	26E		330	SOUTH	1662	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

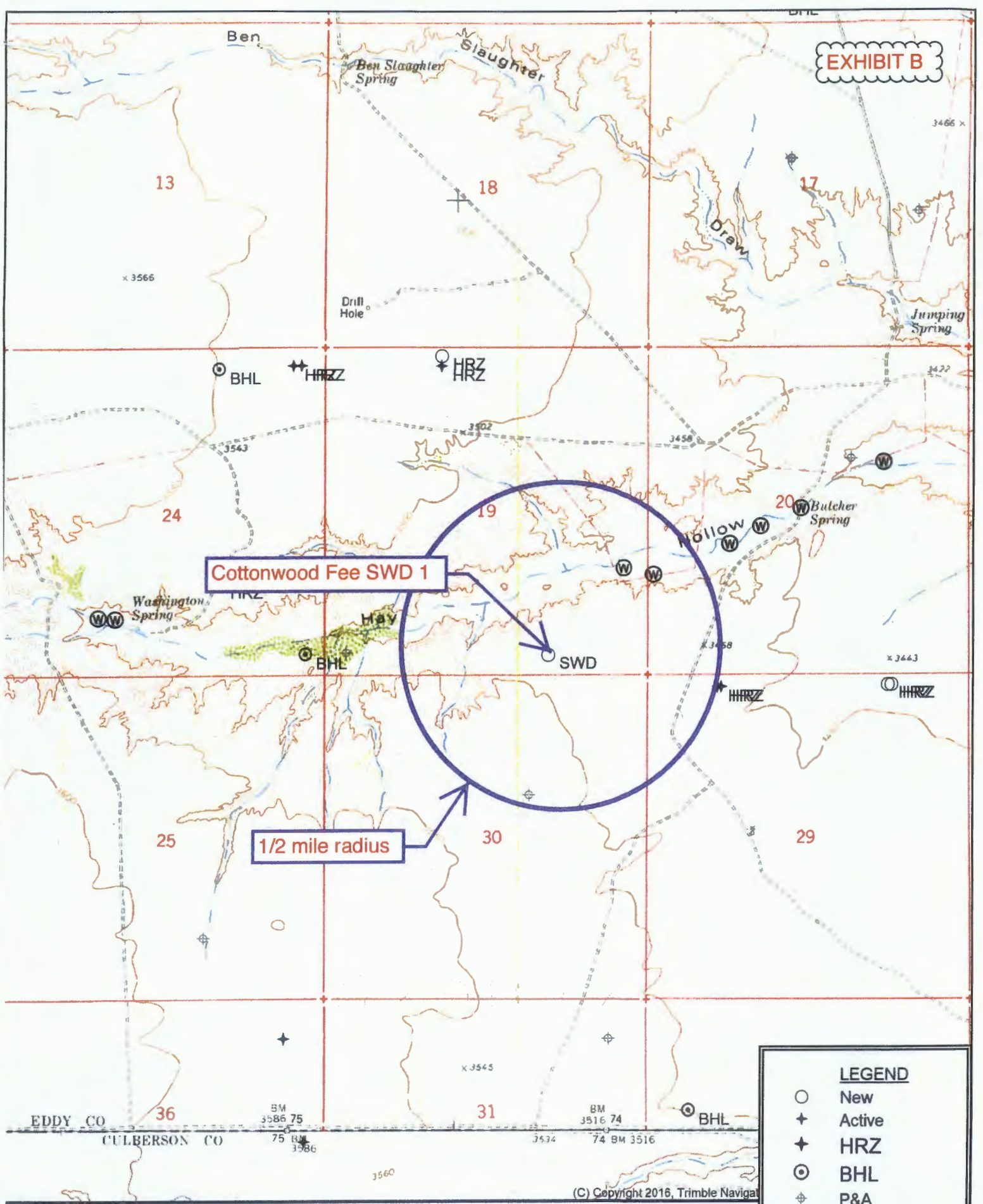
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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

<p>LOT 1</p> <p>LOT 2</p> <p>LOT 3</p> <p>19</p> <p>S.L. 1662'</p> <p>330'</p>	<p>17 OPERATOR CERTIFICATION</p> <p>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.</p> <p>Signature: <i>Rory McMin</i> Date: <i>15 December 2017</i></p> <p>Printed Name: <i>RORY McMIN</i></p> <p>E-mail Address: <i>RORY@RMCMINN.COM</i></p>
	<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>11-29-2017</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>19680</p> <p>Certificate Number</p>

Job No.: LS1711740

EXHIBIT B



Cottonwood Fee SWD 1

1/2 mile radius

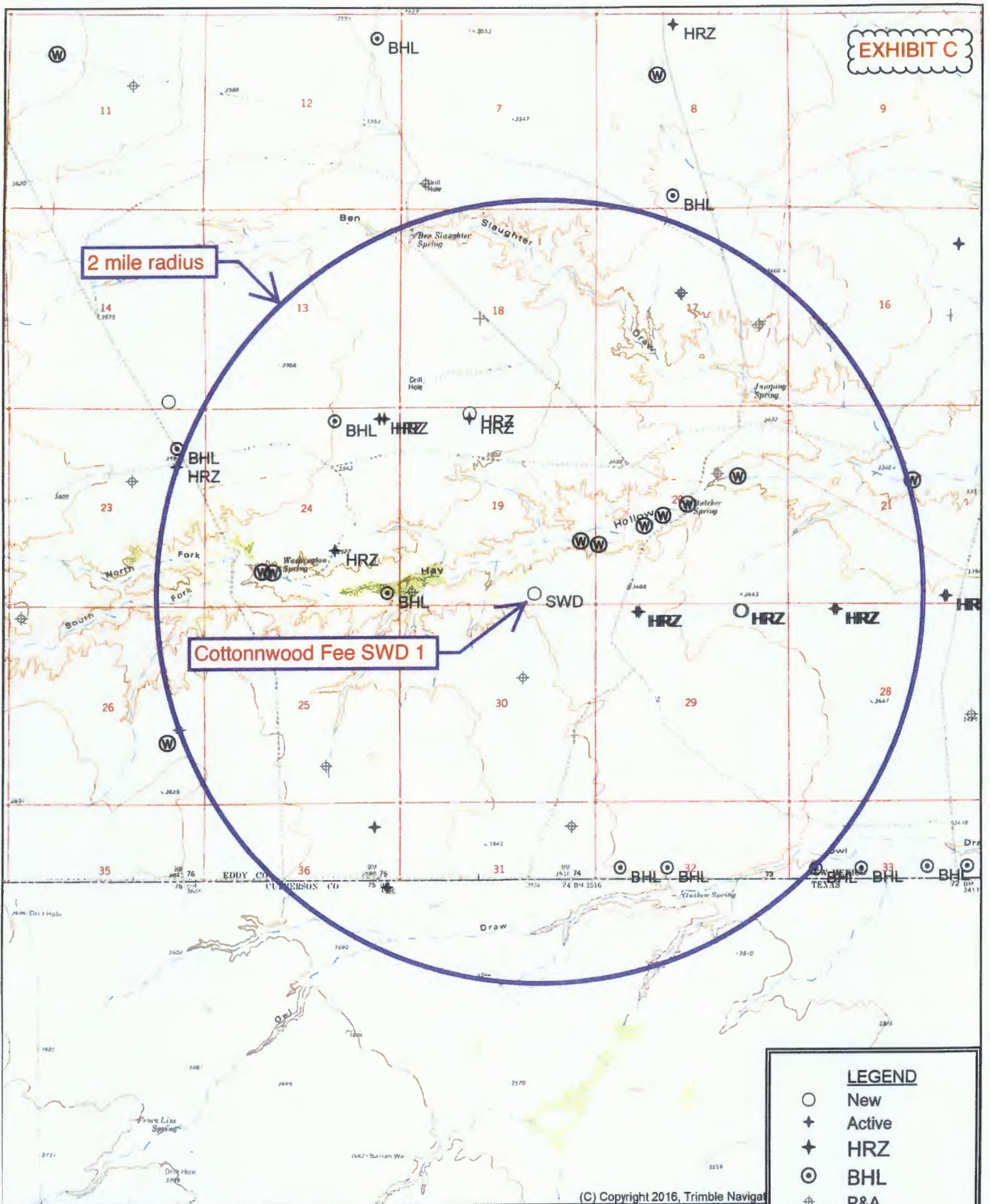
LEGEND	
○	New
+	Active
✦	HRZ
⊙	BHL
⊕	P&A
⊗	INJ
⊗	SWD
⊗	Water

Quad: JUMPING SPRING
Scale: 1 inch = 2,000 ft.

(C) Copyright 2016, Trimble Navigation

SORTED BY DISTANCE FROM COTTONWOOD FEE SWD 1

API	WHO	WELL	TYPE	UNIT- SECTION- T26S-R26E	TVD	ZONE	FEET FROM COTTONWOOD FEE SWD 1
3001541129	COG	Yellow Fin Federal Com 002H	O	C-19	7777	Bone Spring	1701
3001523490	Exxon	Warfield Fed 001	P&A	G-30	10797	Morrow	2313
3001543702	Nearburg	Cottonwood 29 32 Federal Com 001H	O	D-29	6692	Bone Spring	2753



Quad: CARLSBAD
Scale: 1 inch = 3,333 ft.

(C) Copyright 2016, Trimble Navigat

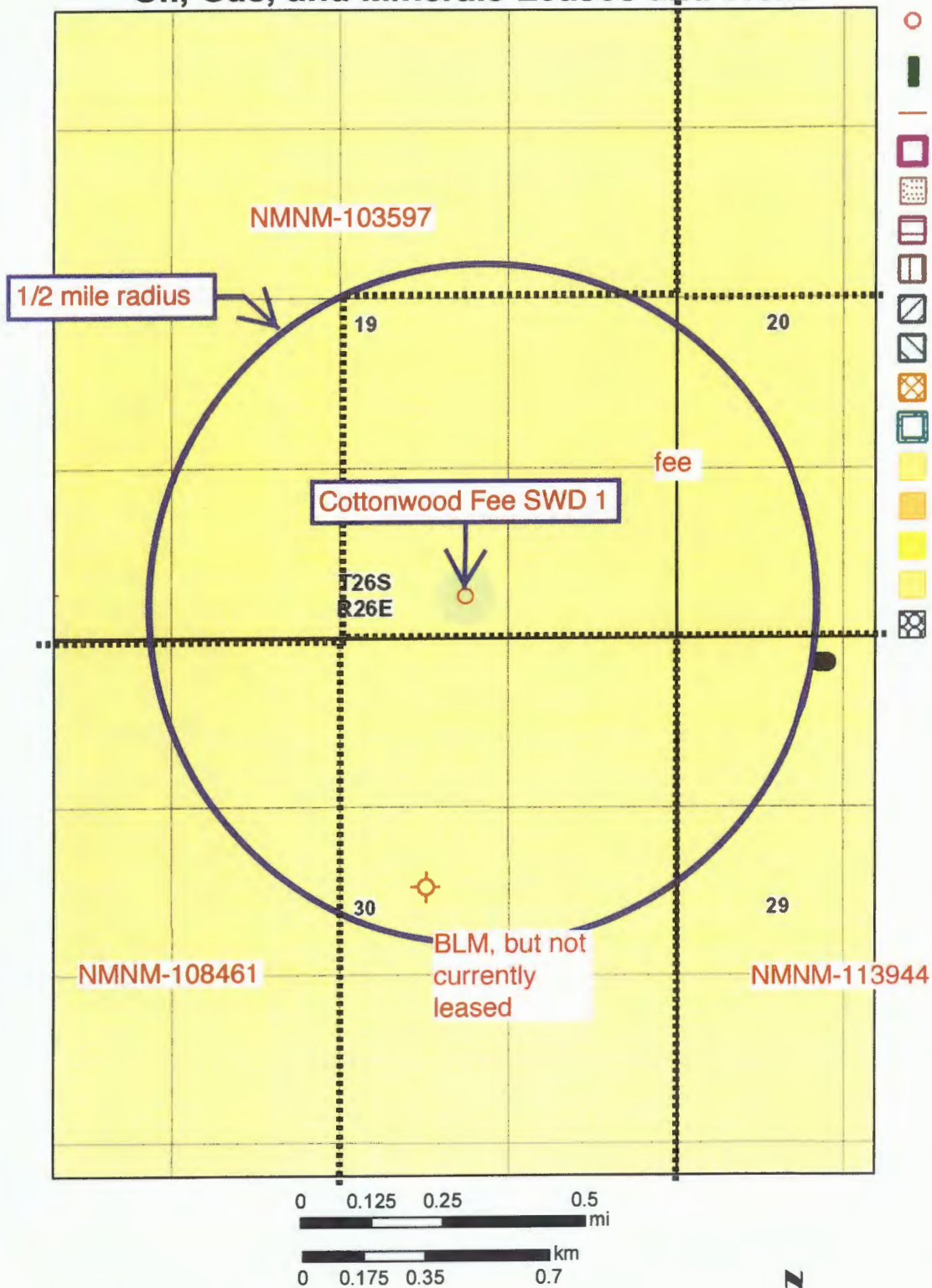
LEGEND

- New
- ✦ Active
- ✦ HRZ
- ⊙ BHL
- ⊕ P&A
- ⊖ INJ
- ⊖ SWD
- ⊖ Water



New Mexico State Land Office

Oil, Gas, and Minerals Leases and Wells



- Oil
- Salt Water Disposal
- Water Storage
- Miscellaneous
- Plugged / Dry / Abandoned
- Cancelled / Not Drilled
- Highway Mileposts
- Detailed Roads
- Unit Agreement Boundaries
- Participating Areas in Units
- Commercial Leases
- Minerals Leases
- Oil and Gas Leases
- Agricultural Leases
- Energy Leases
- Potash District
- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals

EXHIBIT D

Disclaimer:
The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

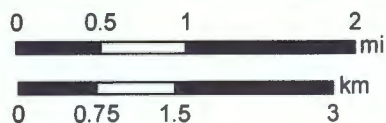
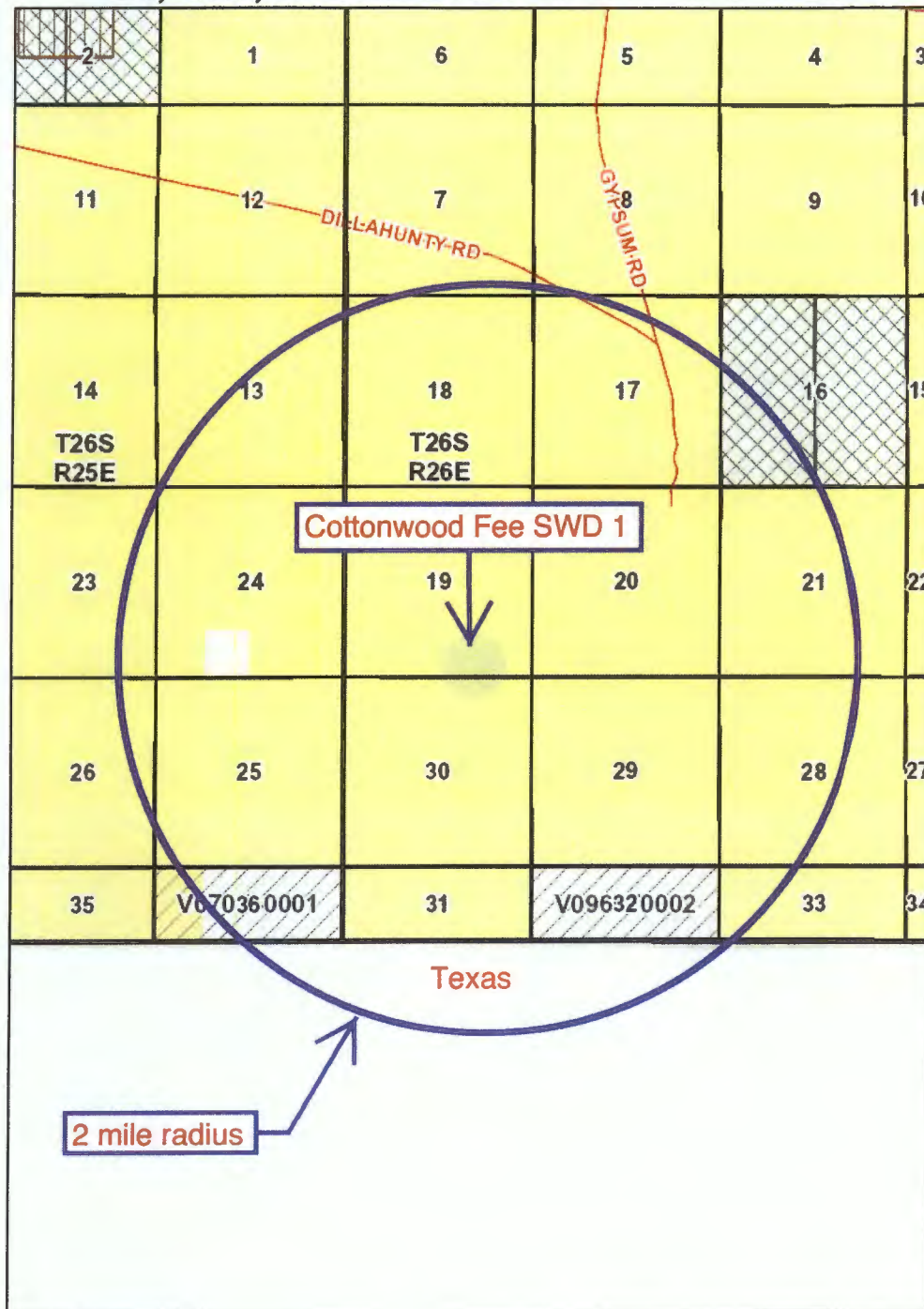
Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.





New Mexico State Land Office

Oil, Gas, and Minerals Leases and Wells



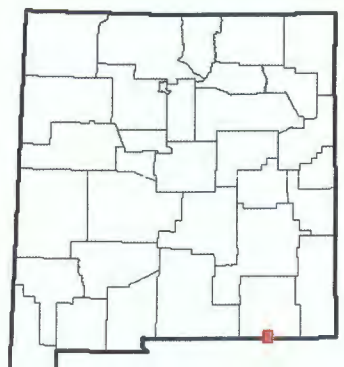
Disclaimer:

The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

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- Larger Towns
- Cities
- State Boundary
- Continental Divide
- - - County Boundaries
- Townships
- Sections
- Highway Mileposts
- Detailed Roads
- Unit Agreement Boundaries
- Participating Areas in Units
- Commercial Leases
- Minerals Leases
- Oil and Gas Leases
- Agricultural Leases
- Energy Leases
- Potash District
- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals

EXHIBIT E



PRODUCED WATER
(all units in mg/l)

API	Section	Township	Range	Formation	TDS	Sodium	Calcium	Iron	Magnesium	Chloride	Bicarbonate	Sulfate
3001523094	7	25S	27E	MORROW	92833	32968	2980	621	388	59225	205	294
3001541359	22	25S	27E	BONE SPRING	161087	48367	8782	49	1152	100324		544
3001522471	6	26S	27E	DELAWARE	255599					160000	24	330
3001522471	6	26S	27E	DELAWARE	265727					158000	37	3600
3001522471	6	26S	27E	DELAWARE	255336					156000	76	790
3001522471	6	26S	27E	DELAWARE	263830					157000	78	3700

EXHIBIT F

Well Name	API	Lat	Long	Sect	Twp	Range	County	SI	Field	Formation	sample source	tds_mgl	chloride_mgl
ANTELOPE RIDGE UNIT	3002521082	32.259	-103.463	34	23 S	34 E	Lea	NM	ANTELOPE RIDGE	DEVONIAN	UNKNOWN	80187	47900
FARNSWORTH FEDERAL	3002511950	32.078	-103.162	4	26 S	37 E	Lea	NM	CROSBY	DEVONIAN	UNKNOWN	31931	20450
ARNOTT RAMSAY NCT B	3002511863	32.092	-103.178	32	25 S	37 E	Lea	NM	CROSBY	DEVONIAN			100382
COPPER	3002511838	32.099	-103.165	28	25 S	37 E	Lea	NM	CROSBY	DEVONIAN	UNKNOWN	27506	15270
STATE NJ A	3002511398	32.165	-103.117	2	25 S	37 E	Lea	NM	JUSTIS NORTH	DEVONIAN	DST	105350	59300
WEST DOLLARHIDE DEVONIAN	3002512297	32.172	-103.076	32	24 S	38 E	Lea	NM	DOLLARHIDE	DEVONIAN	WELLHEAD	50858	30200
STATE B COM	3002509716	32.179	-103.221	36	24 S	36 E	Lea	NM	CUSTER	DEVONIAN	UNKNOWN	176234	107400
E C HILL D FEDERAL	3002510950	32.265	-103.144	34	23 S	37 E	Lea	NM	TEAGUE	DEVONIAN	UNKNOWN	236252	147000
E C HILL B FEDERAL	3002510945	32.266	-103.144	34	23 S	37 E	Lea	NM	TEAGUE	DEVONIAN	UNKNOWN	112959	67390
CLINE FEDERAL	3002510717	32.302	-103.136	14	23 S	37 E	Lea	NM	CLINE	DEVONIAN	PRODUCTION TEST	118979	71780
BELL LAKE UNIT	3002508483	32.328	-103.507	6	23 S	34 E	Lea	NM	BELL LAKE NORTH	DEVONIAN	HEATER/TREATER	71078	42200
Average												101133	64434

From SWD-1620
30-015-43892



New Mexico Office of the State Engineer

Water Column/Average Depth to Water















EXHIBIT G

(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)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water Column
C 01351			ED	4	2	4	19	26S	26E	563772	3543411* 	567		25		
C 03811 POD1		C	ED	4	1	4	19	26S	26E	563746	3543436 	569		46	15	31
C 03810 POD1		C	ED	3	1	3	20	26S	26E	563896	3543406 	657		100	15	85
C 01351 X-2			ED	3	1	3	20	26S	26E	563978	3543413* 	728		25		
C 04041 POD1		C	ED	2	1	3	20	26S	26E	564281	3543559 	1063		100	60	40
C 04046 POD1		CUB	ED	1	2	3	20	26S	26E	564437	3543647 	1241		140	100	40
C 01351 X			ED	4	4	1	20	26S	26E	564581	3543822* 	1457		25		
C 03812 POD1	1 mile = 1610 m	C	ED	4	4	1	20	26S	26E	564641	3543737 	1463		96	15	81
C 04048 POD1		CUB	ED	2	3	2	20	26S	26E	565061	3543969 	1943		140	80	60
C 04047 POD1		CUB	ED	1	4	3	24	26S	25E	561202	3543172 	2177		100	12	88
C 03816 POD1		C	ED	1	4	3	24	26S	25E	561116	3543177 	2263		80	10	70
C 02790			ED	3	2	1	25	26S	25E	561146	3542586* 	2266		100		
C 02791			ED		4	4	17	26S	26E	565288	3544739* 	2582		100		
C 02370		CUB	ED		1	1	36	26S	25E	560846	3541060* 	3190		60	7	53

1 mile =
1610 m

Average Depth to Water: **34 feet**
Minimum Depth: **7 feet**
Maximum Depth: **100 feet**

Record Count: 14

UTM NAD83 Radius Search (in meters):

Easting (X): 563373

Northing (Y): 3543007

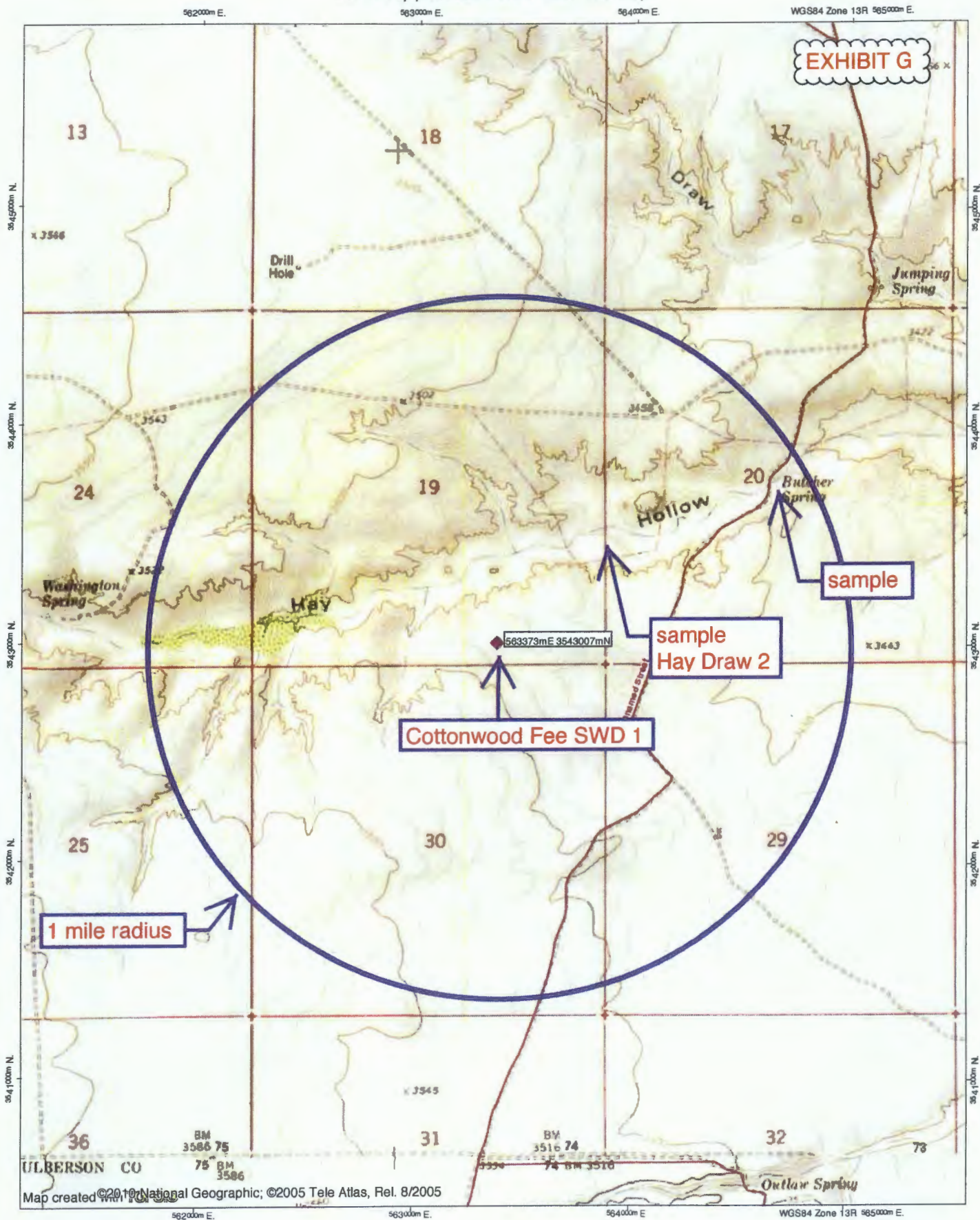
Radius: 3220

*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.

12/26/17 4:48 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: Hay Draw #2

Project: Vision 3 Bear Cottonwood

Collection Date: 1/17/2018 11:21:00 AM

Lab ID: 1801A73-001

Matrix: AQUEOUS

Received Date: 1/23/2018 11:26:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664B							Analyst: dbf
N-Hexane Extractable Material	ND	11.5		mg/L	1	1/29/2018 4:00:00 PM	36233
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	110	10		mg/L	20	1/24/2018 4:02:34 AM	A48659
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	2920	20.0	*	mg/L	1	1/25/2018 6:28:00 PM	36172

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Project: Vision 3 Bear Cottonwood

Lab ID: 1801A73-002

Client Sample ID: Butcher Spring

Collection Date: 1/17/2018 11:46:00 AM

Received Date: 1/23/2018 11:26:00 AM

Matrix: AQUEOUS

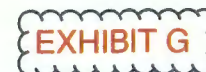
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664B							Analyst: dbf
N-Hexane Extractable Material	ND	10.4		mg/L	1	1/29/2018 4:00:00 PM	36233
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	270	10	*	mg/L	20	1/24/2018 4:27:23 AM	A48659
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	4370	20.0	*	mg/L	1	1/25/2018 6:28:00 PM	36172

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 4
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.



WO#: 1801A73

30-Jan-18

Client: Permits West
Project: Vision 3 Bear Cottonwood

Sample ID	MB-36233	SampType:	MBLK	TestCode:	EPA Method 1664B					
Client ID:	PBW	Batch ID:	36233	RunNo:	48769					
Prep Date:	1/29/2018	Analysis Date:	1/29/2018	SeqNo:	1568947	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10.0								

Sample ID	LCS-36233	SampType:	LCS	TestCode:	EPA Method 1664B					
Client ID:	LCSW	Batch ID:	36233	RunNo:	48769					
Prep Date:	1/29/2018	Analysis Date:	1/29/2018	SeqNo:	1568948	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	36.0	10.0	40.00	0	90.0	78	114			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.



WO#: 1801A73

30-Jan-18

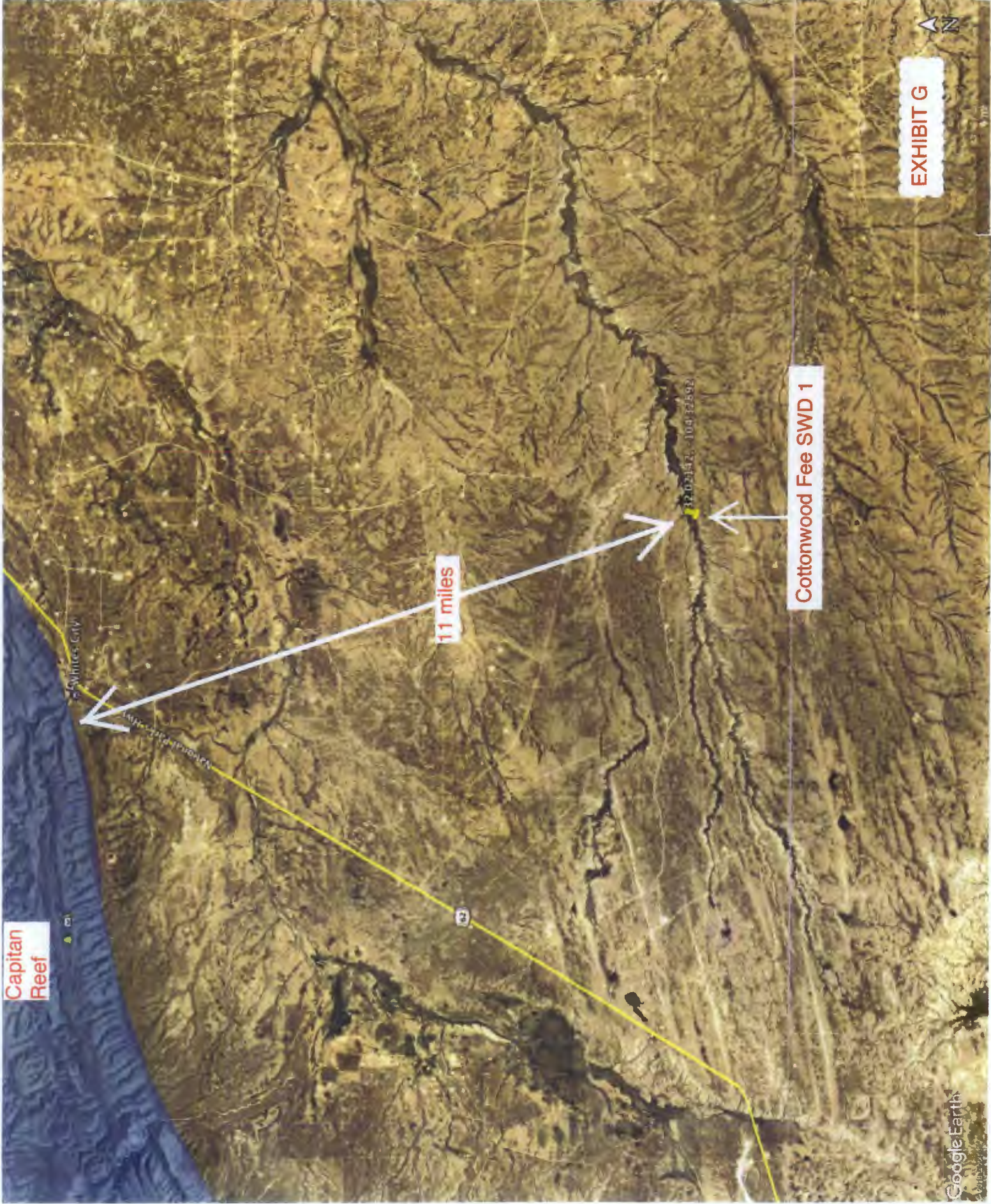
Client: Permits West
Project: Vision 3 Bear Cottonwood

Sample ID	MB-36172	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	36172	RunNo:	48704					
Prep Date:	1/24/2018	Analysis Date:	1/25/2018	SeqNo:	1566557	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-36172	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	36172	RunNo:	48704					
Prep Date:	1/24/2018	Analysis Date:	1/25/2018	SeqNo:	1566558	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

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



Capitan Reef

Whites City

11 miles

Cottonwood Fee SWD 1

32.02457, -104.32592

EXHIBIT G

Google Earth

ATTACHMENT TO

FORM C-108

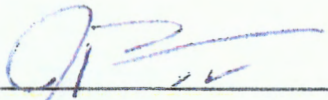
3Bear Field Services, LLC

Cottonwood Fee SWD #1

Unit Letter O, Section 19, T26S, R26E, N.M.P.M. Survey

Eddy 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.



J. Phelps White, IV
Geologist

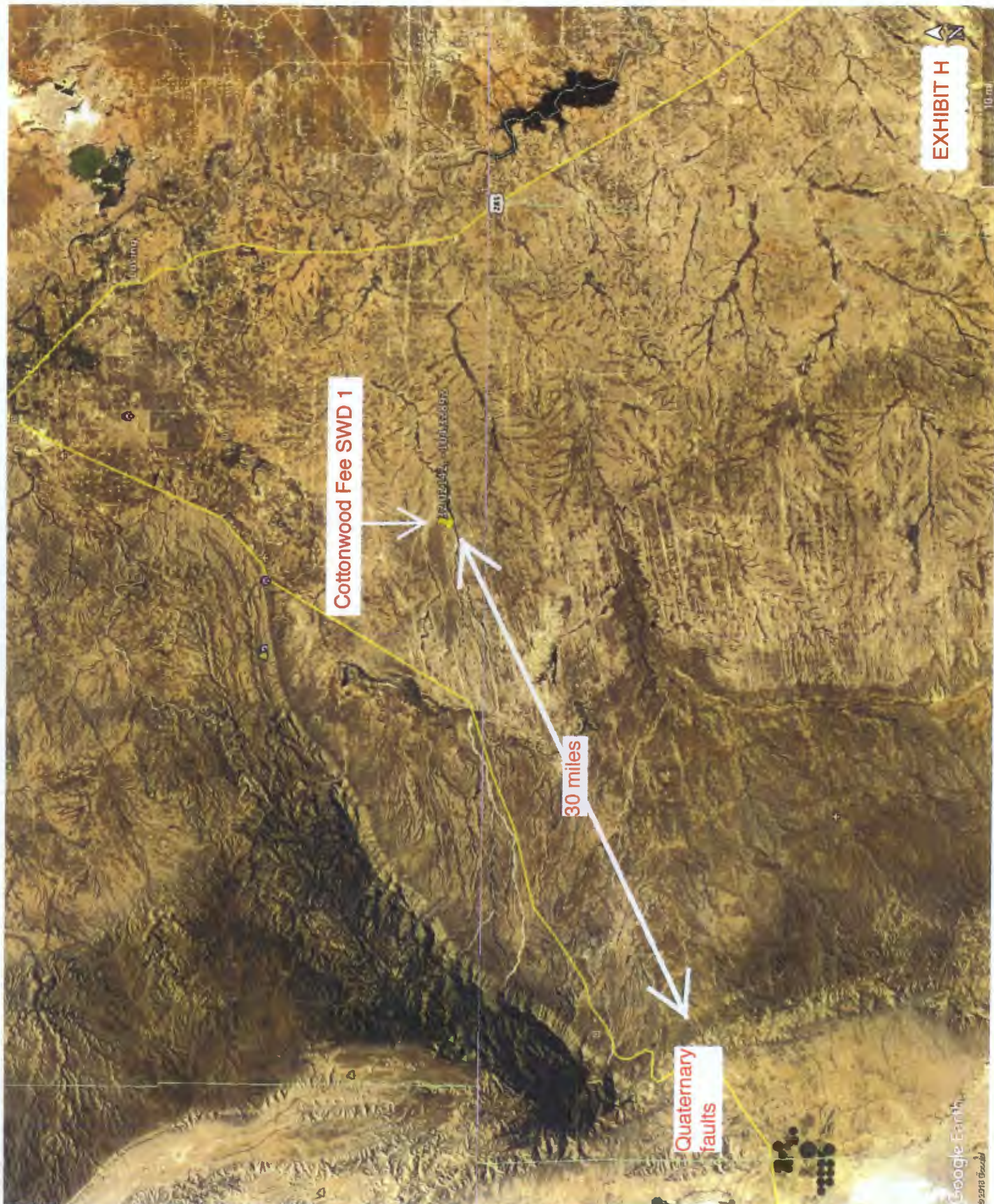
Date: 1-11-2018

EXHIBIT H

Cottonwood Fee SWD 1

30 miles

Quaternary faults



December 19, 2017

3Bear Field Services, LLC is applying to drill the Cottonwood Fee SWD 1 as a saltwater disposal well. Disposal will be in the Silurian and Devonian from 11,700' to 13,000'. The well will be located 20 miles southwest of Malaga, NM at 330 FSL & 1662 FEL Sec. 19, T. 26 S., R. 26 E., Eddy County. Maximum disposal rate will be 25,000 bwpd. Maximum injection pressure will be 2,340 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.

Affidavit of Publication

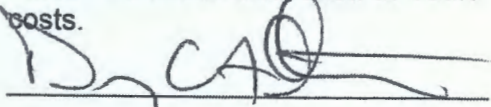
State of New Mexico,
County of Eddy, ss.

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

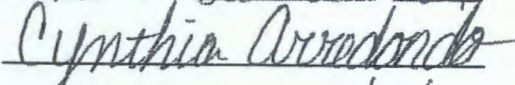
That he is the Publisher of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

December 19, 2017

That the cost of publication is **\$50.15** and that payment thereof has been made and will be assessed as court costs.



Subscribed and sworn to before me this 19 day of December, 2017



My commission Expires 2/15/21

Notary Public

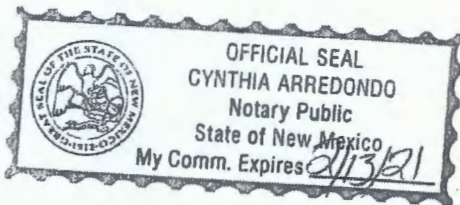


EXHIBIT I

PERMITS WEST INC.
PROVIDING PERMITS for LAND USERS
17 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

March 13, 2018

David & Laverne Maley
PO Box 519
Carlsbad NM 88220

TYPICAL LETTER

3Bear Field Services, LLC is applying (see attached application) to drill the Cottonwood 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: Cottonwood Fee SWD 1 (fee lease) ID = 13,000'

Proposed Disposal Zones: Devonian & Silurian (11,760' - 13,000')

Location: 330' FSL & 1662' FEL Sec. 19, T. 26 S., R. 26 E., Eddy County, NM

Approximate Location: ~20 air miles southwest of Malaga, NM

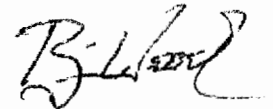
Applicant Name: 3Bear Field Services, LLC (575) 626-7100

Applicant's Address: 1512 Larimer St., Suite 540, Denver CO 80202

Submittal Information: 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

EXHIBIT J

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
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Postage	
Total Postage and Fees	
Sent To	The Allar Co PO Box 1567 Graham TX 74650
Street and Apt. No., or P.O. Box	3 Bear Cottonwood SWD 1
City, State, ZIP+4®	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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Street and Apt. No., or P.O. Box	3 Bear Cottonwood SWD 1
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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
Total Postage and Fees	
Sent To	Chevron Midcontinent LP 6301 Deauville Midland TX 79706
Street and Apt. No., or P.O. Box	3 Bear Cottonwood SWD 1
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<input type="checkbox"/> Return Receipt (hardcopy)	\$ 275
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	1.63
Total Postage and Fees	
Sent To	BLM 620 E. Greene Carlsbad NM 88220
Street and Apt. No., or P.O. Box	3 Bear Cottonwood SWD 1
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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
Total Postage and Fees	
Sent To	Chisolm Energy Agent Inc 801 Cherry St, Ste 1200, Unit 20 Fort Worth TX 76102
Street and Apt. No., or P.O. Box	3 Bear Cottonwood SWD 1
City, State, ZIP+4®	
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<input type="checkbox"/> Return Receipt (electronic)	\$
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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
Total Postage and Fees	
Sent To	Chevron USA, Inc. 1400 Smith Street Houston TX 77002
Street and Apt. No., or P.O. Box	3 Bear Cottonwood SWD 1
City, State, ZIP+4®	
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☐ Certified Mail Restricted Delivery \$
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☐ Adult Signature Restricted Delivery \$

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Total Postage and Fees

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☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

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Sent To

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Street and Apt. No., or P.O. Box

City, State, ZIP+4®

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

Postage

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Total Postage and Fees

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Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

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

Postage

\$

Total Postage and Fees

\$

Sent To

\$

Street and Apt. No., or P.O. Box

City, State, ZIP+4®

Postmark Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

EXHIBIT J

U.S. Postal Service
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

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

Postage

\$

Total Postage and Fees

\$

Sent To

Marbels c/o O'Connor
600 W. Illinois Ave
Midland TX 79701

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

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

Postage

\$

Total Postage and Fees

\$

Sent To

MYCO INDUSTRIES INC
PO Box 840
Artesia NM 88211

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

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

Postage

\$

Total Postage and Fees

\$

Sent To

Nearburg Producing Co
3300 N. A Street, Bldg 2, Ste 120
Midland TX 79707

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

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

Postage

\$

Total Postage and Fees

\$

Sent To

MRC Permian Company
5400 LBJ Freeway, Suite 1500
Dallas TX 75240

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

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

Postage

\$

Total Postage and Fees

\$

Sent To

Nearburg Expl Co LLC
PO Box 823085
Dallas TX 75382

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

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

Postage

\$

Total Postage and Fees

\$

Sent To

Oxy USA Inc
5 Greenway Plz #110
Houston TX 77046

PS Form 3800, April 2015 PSN 7530-02-000-9047

EXHIBIT J

7017 0190 0001 1434 9614

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To **OXY USA INC**
PO Box 4294
Houston TX 77210
Street and Apt. No., or PO Box No. **3 Bear Cottonwood SWD 1**
City, State, ZIP+4®

Postmark Here

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

7017 0190 0001 1434 8921

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To **Oxy LP**
PO Box 4294
Houston, TX 77210
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

Postmark Here

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

7017 0190 0001 1434 8853

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To **OXY Y-1 Company**
PO Box 27570
Houston TX 77227
Street and Apt. No., or PO Box No. **3 Bear Cottonwood SWD 1**
City, State, ZIP+4®

Postmark Here

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

7017 0190 0001 1434 9591

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To **Strategic Energy Income Fund IV LP**
2350 N Forest Rd
Getzville NY 14068
Street and Apt. No., or PO Box No. **3 Bear Cottonwood SWD 1**
City, State, ZIP+4®

Postmark Here

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

7017 0190 0001 1434 5477

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To **Yates Petro Corp**
105 S 4th Street
Artesia NM 88210
Street and Apt. No., or PO Box No. **3 Bear Cottonwood SWD 1**
City, State, ZIP+4®

Postmark Here

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

EXHIBIT J

SENDER: COMPLETE THIS SECTION

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

ABO PETRO CORP
105 S 4th Street
Artesia NM 88210

3 Bear Cottonwood SWD 1

9590 9402 3732 7335 6669 88

Article Number (Transfer from service label)
017 0190 0001 1434 8860
Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
☒ Agent
☐ Addressee

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

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

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Concho Oil & Gas LLC
600 W Illinois Ave
Midland TX 79701

3 Bear Cottonwood SWD 1

9590 9402 3732 7335 6668 34

2. Article Number (Transfer from service label)
7017 0190 0001 1434 9621
PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
☒ Agent
☐ Addressee

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

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

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Chevron Midcontinent LP
6301 Deauville
Midland TX 79706

3 Bear Cottonwood SWD 1

9590 9402 3732 7335 6669 02

Article Number (Transfer from service label)
7017 0190 0001 1434 5487
Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
☒ Agent
☐ Addressee

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

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

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Bruce Alan Macnaughton
c/o Reserve Mgmt. Ltd.
PO Box 4469
Longview TX 75606

3 Bear - Libby

9590 9402 3732 7335 6670 39

2. Article Number (Transfer from service label)
7017 0190 0001 1434 8790
PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
☒ Agent
☐ Addressee

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

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

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Chevron USA, Inc.
1400 Smith Street
Houston TX 77002

3 Bear Cottonwood SWD 1

9590 9402 3732 7335 6667 80

Article Number (Transfer from service label)
17 0190 0001 1434 9553
Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
☒ Agent
☐ Addressee

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

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

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

David and Laverne Maley
PO Box 519
Carlsbad NM 88220

3 Bear Cottonwood SWD 1

9590 9402 3732 7335 6670 08

2. Article Number (Transfer from service label)
7017 0190 0001 1434 8884
PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
☒ Agent
☐ Addressee

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

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

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Chisolm Energy Agent Inc
801 Cherry St, Ste 1200, Unit 20
Fort Worth TX 76102

3 Bear Cottonwood SWD 1

9590 9402 3732 7335 6669 33

Article Number (Transfer from service label)
17 0190 0001 1434 8839
Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
☒ Agent
☐ Addressee

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

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

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Marathon Oil Permian LLC
5555 San Felipe Street
Houston TX 77056

3 Bear Cottonwood SWD 1

9590 9402 3732 7335 6668 03

2. Article Number (Transfer from service label)
7017 0190 0001 1434 9577
PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
☒ Agent
☐ Addressee

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

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

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

COG Operating LLC
One Concho Ctr, 600 W Illinois Ave
Midland TX 79701

3 Bear Cottonwood SWD 1

9590 9402 3732 7335 6668 89

Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
☒ Agent
☐ Addressee

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

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

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

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

SENDER: COMPLETE THIS SECTION

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

Marbob c/o COG Concho
600 W. Illinois Ave.
Midland TX 79701

COMPLETE THIS SECTION ON DELIVERY

A. Signature
☒ Agent
☐ Addressee

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

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

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

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

SENDER: COMPLETE THIS SECTION

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

Article Addressed to:

MRC Permian Company
5400 LBJ Freeway, Suite 1500
Dallas TX 75240

3 Bear Cottonwood SWD 1



9590 9402 3732 7335 6667 97

Article Number (Transfer from service label)

7017 0190 0001 1434 9560

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

3/19/18

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

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

OXY Y-1 Company
PO Box 27570
Houston TX 77227

3 Bear Cottonwood SWD 1



9590 9402 3732 7335 6669 95

2. Article Number (Transfer from service label)

7017 0190 0001 1434 8853

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

3/19/18

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

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Article Addressed to:

MYCO INDUSTRIES INC
PO Box 840
Artesia NM 88211

3 Bear Cottonwood SWD 1



9590 9402 3732 7335 6669 84

Article Number (Transfer from service label)

117 0190 0001 1434 8846

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

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

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Strategic Energy Income Fund IV LP
2350 N Forest Rd
Getzville NY 14068

3 Bear Cottonwood SWD 1



9590 9402 3732 7335 6668 27

2. Article Number (Transfer from service label)

7017 0190 0001 1434 9591

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

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

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ Restricted Delivery

Domestic Return Receipt

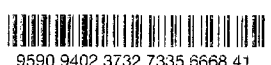
SENDER: COMPLETE THIS SECTION

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

Article Addressed to:

OXY USA INC
PO Box 4294
Houston TX 77210

3 Bear Cottonwood SWD 1



9590 9402 3732 7335 6668 41

Article Number (Transfer from service label)

117 0190 0001 1434 9614

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

3/20/18

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

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

The Allar Co
PO Box 1567
Graham TX 74650

3 Bear Cottonwood SWD 1



9590 9402 3732 7335 6668 96

2. Article Number (Transfer from service label)

7017 0190 0001 1434 9645

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

3/22/18

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

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Article Addressed to:

Oxy USA Inc
5 Greenway Plz #110
Houston TX 77046

3 Bear Cottonwood SWD 1



9590 9402 3732 7335 6668 58

Article Number (Transfer from service label)

117 0190 0001 1434 9607

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

3/22/18

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

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Yates Petro Corp
105 S 4th Street
Artesia NM 88210

3 Bear Cottonwood SWD 1



9590 9402 3732 7335 6669 26

2. Article Number (Transfer from service label)

7017 0190 0001 1434 5494

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

3/22/18

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

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ Restricted Delivery

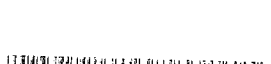
Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Article Addressed to:

WTP LP
Box 4294
Houston TX 77210



9590 9402 3732 7335 6668 58

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

3/22/18

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

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ Restricted Delivery

Domestic Return Receipt

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

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

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

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

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

Form C-101
Revised July 18, 2013

RECEIVED

☐ AMENDED REPORT

MAY 22 2018

DISTRICT II-ARTESIA O.C.D.

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

Operator Name and Address 3Bear Field Services, LLC 1512 Larimer Street, Suite 540 Denver, CO 80202		OGRID Number 372603
		API Number
Property Code	Property Name Cottonwood Fee SWD	Well No. 1

Surface Location

U/L - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	19	26S	26 E		330	SOUTH	1662	EAST	Eddy

Proposed Bottom Hole Location

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

Pool Information

Pool Name SWD; Siluro-Devonian	Pool Code
--	------------------

Additional Well Information

Work Type N	Well Type S	Cable/Rotary R	Lease Type P	Ground Level Elevation 3483
Multiple YES	Proposed Depth 13,000	Formation Siluro-Devonian	Contractor Patriot Drilling	Spud Date June 1, 2018
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

Proposed Casing and Cement Program


Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Please see	attached	Addendum	to Drilling	Permit		

Casing/Cement Program: Additional Comments

--

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

21. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☐ if applicable.
Signature: 

Printed name: Rory McMinn

Title: Advisor

E-mail Address: rory@rmcminn.com

Date: 20 May 2018

Phone: 575/626-7100

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1263 Fax: (575) 748-9720
District III
1000 Rm Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

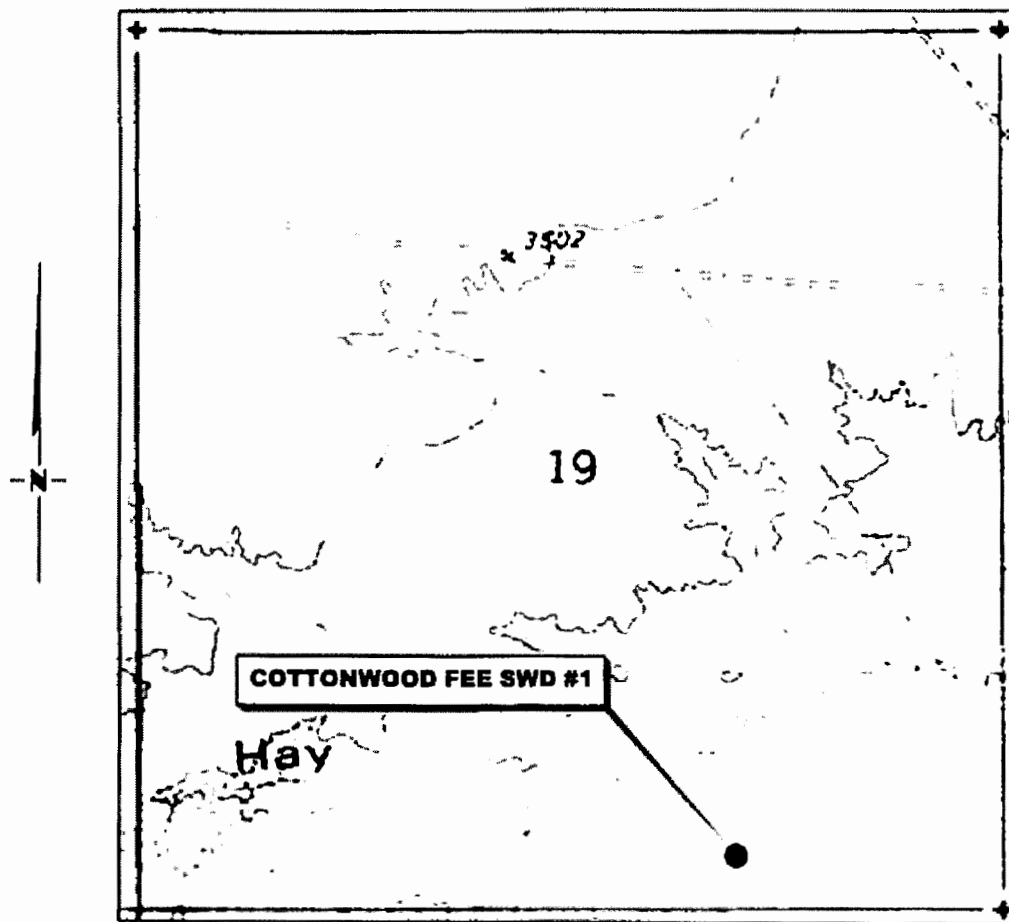
1 API Number		2 Pool Code		3 Pool Name					
4 Property Code		5 Property Name COTTONWOOD FEE SWD						6 Well Number 1	
7 OGRID NO.		8 Operator Name 3BEAR FIELD SERVICES, LLC						9 Elevation 3483'	
10 Surface Location									
UL or lot no 0	Section 19	Township 26S	Range 26E	Lot Idn	Feet from the 330	North-South line SOUTH	Feet from the 1662	East-West line EAST	County EDDY
11 Bottom Hole Location If Different From Surface									
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North-South line	Feet from the	East-West line	County
12 Dedicated Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			

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

<p>LOT 1</p> <p>LOT 2</p> <p>LOT 3</p>	<p>19</p>		<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided 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.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
	<p>18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>11-29-2017 Date of Survey</p> <p>Signature and Seal of Professional Surveyor _____</p>		<p>19680 Certificate Number</p>
	<p>19680 Certificate Number</p>		<p>19680 Certificate Number</p>
	<p>19680 Certificate Number</p>		<p>19680 Certificate Number</p>

Job No.: LS1711740

LOCATION VERIFICATION MAP



*SECTION 19, TWP. 26 SOUTH, RGE. 26 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO*

OPERATOR: 3Bear Field Services, LLC

LEASE: Cottonwood Fee SWD

WELL NO.: 1

ELEVATION: 3483'

LOCATION: 330' FSL & 1662' FEL

CONTOUR INTERVAL: 10'

USGS TOPO. SOURCE MAP:

Jumping Spring, NM (P. E. 1985)

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NO.	REVISION	DATE
JOB NO.:	LS1711740	
DWG. NO.:	1711740LVM	

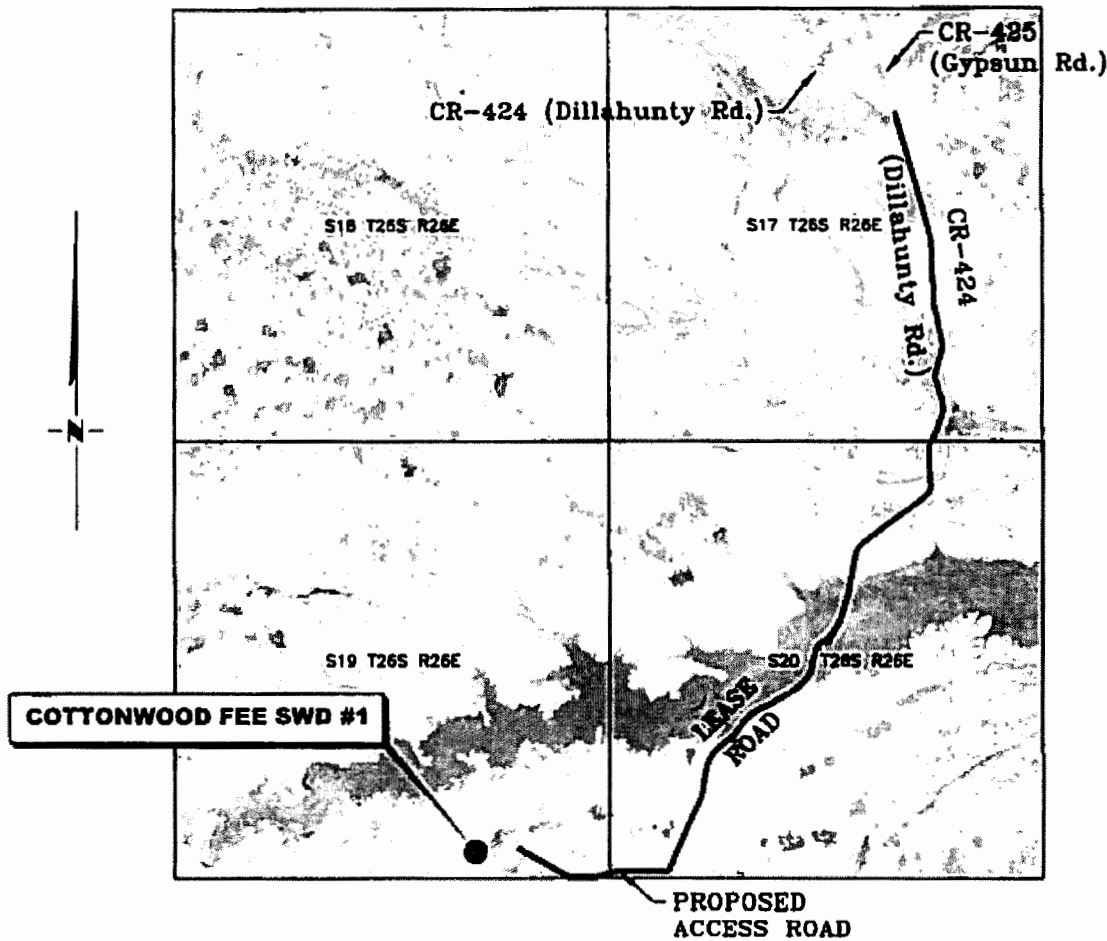
RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 11-29-2017
SURVEYED BY: BK/CG
DRAWN BY: AJAC
APPROVED BY: RMH
SHEET: 1 OF 1

VICINITY MAP

NOT TO SCALE



SECTION 19, TWP. 26 SOUTH, RGE. 26 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: 3Bear Field Services, LLC
LEASE: Cottonwood Fee SWD
WELL NO.: 1

LOCATION: 330' FSL & 1662' FEL
ELEVATION: 3483'

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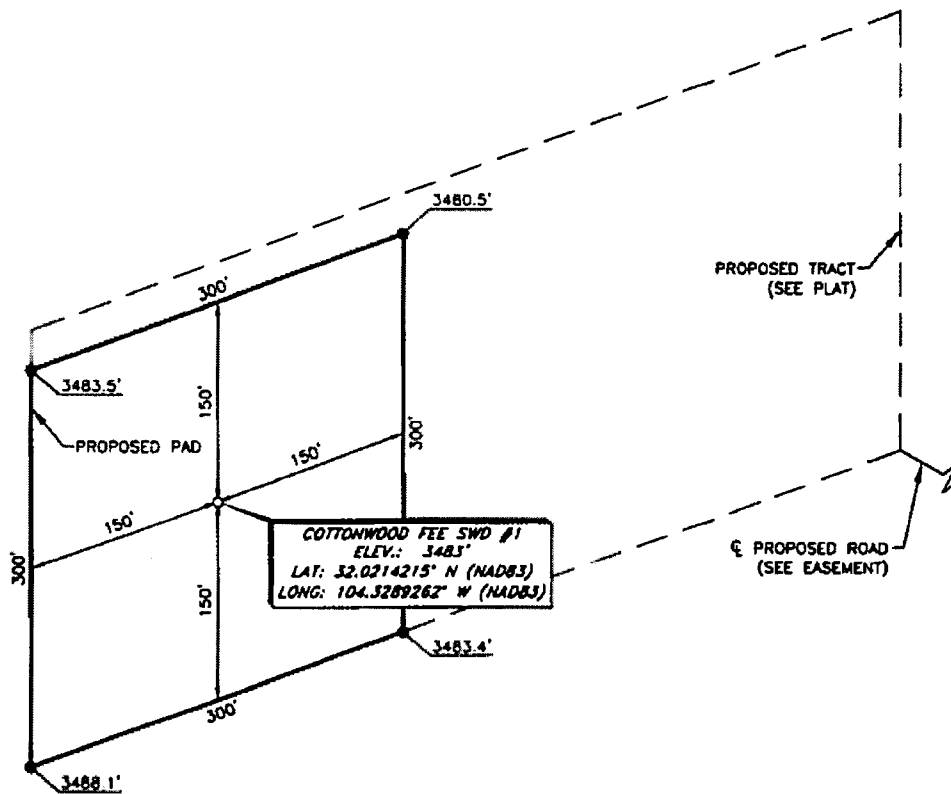
NO.	REVISION	DATE
JOB NO.:	LS1711740	
DWG. NO.:	1711740VM	

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE:	N / A
DATE:	11-29-2017
SURVEYED BY:	BK/CG
DRAWN BY:	AiAC
APPROVED BY:	RMH
SHEET:	1 OF 1

3BEAR FIELD SERVICES, LLC
COTTONWOOD FEE SWD #1
(330' FSL & 1662' FEL)
SECTION 19, T26S, R26E
N. M. P. M., EDDY COUNTY, NEW MEXICO

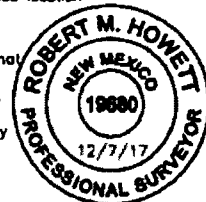


DIRECTIONS TO LOCATION

From the intersection of CR-425 (Gypsum Rd.) and CR-424 (Dilohunty Rd.),
 Go South on CR-424 approx. 0.9 miles to lease road;
 Go Southwest on lease road approx. 1.1 miles to a "Y";
 Turn right and go Southwest approx. 165 feet to proposed road on the right;
 Turn right and go West on proposed road approx. 0.4 miles to proposed location
 on the left.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that
 I prepared this unclassified survey of a well location from an
 actual survey made on the ground under my direct supervision,
 said survey and plat meet the Min. Stds. for Land Surveying in
 the State of N. M. and are true and correct to the best of my
 knowledge and belief.

Robert M. Howett
 Robert M. Howett NM PS 19680



SCALE 1" = 100'
 0 50' 100'

BEARINGS ARE GRID NAD 83
 NM EAST
 DISTANCES ARE MEASURED GROUND

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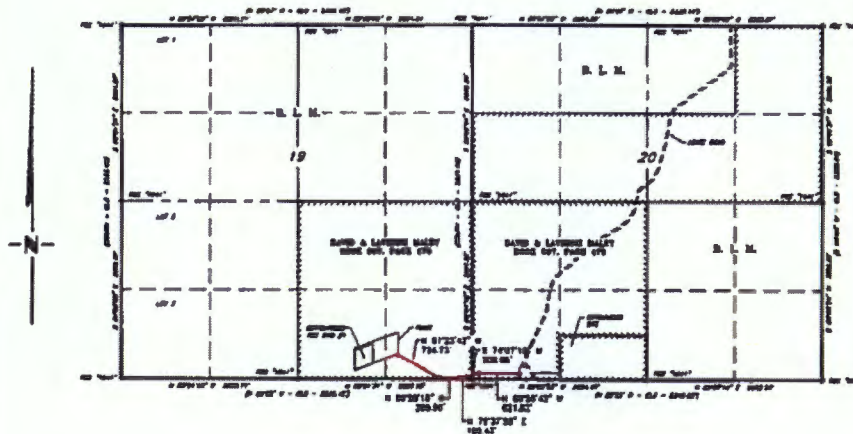
NO.	REVISION	DATE
JOB NO.:	LS1711740	
DWG. NO.:	1711740PAD	

RRC

308 W. BROADWAY ST., MOBBE, NM 88240 (575) 964-8200

SCALE:	1" = 100'
DATE:	11-29-2017
SURVEYED BY:	JF/BK
DRAWN BY:	AJAC
APPROVED BY:	RMH
SHEET:	1 OF 1

**3BEAR FIELD SERVICES, LLC
OVERALL OF PROPOSED ACCESS ROAD
FOR THE COTTONWOOD FEE SWD #1
SECTIONS 19 AND 20, T26S, R28E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



SCALE: 1" = 2000'
0 1000' 2000'

BEARINGS ARE GIVEN HAD BY
AND EAST
DISTANCES ARE HORIZ. GROUND.

LEGEND

- () RECORD DATA - GLO
- ◆ FOUND MONUMENT AS NOTED
- PROPOSED ACCESS ROAD

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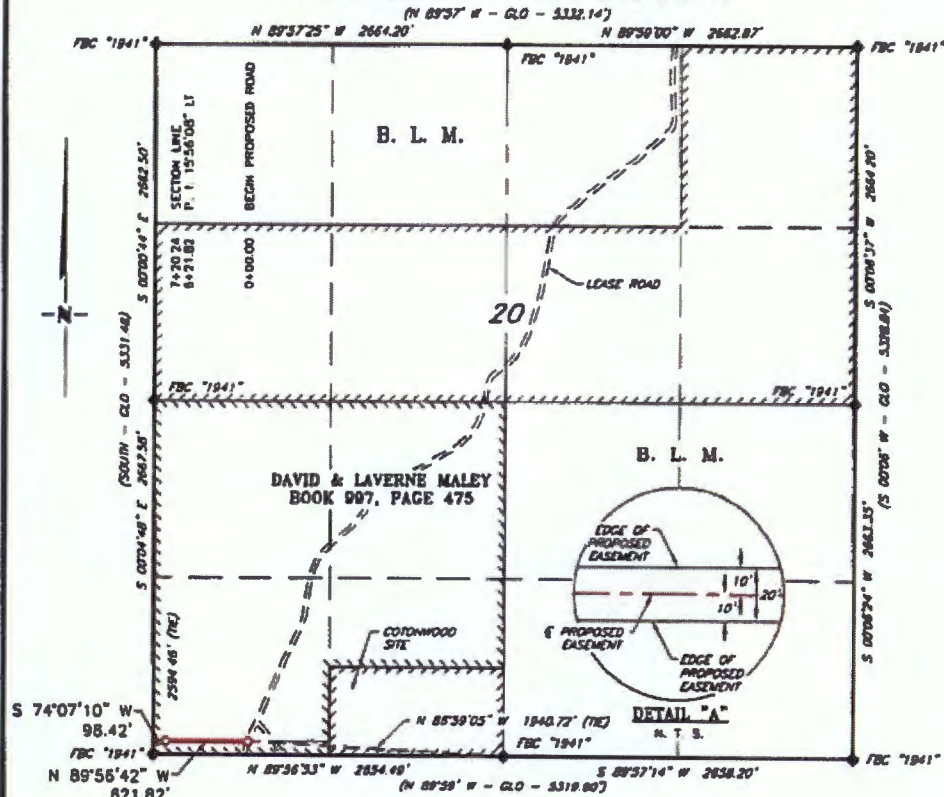
NO.	REVISION	DATE
JOB NO.:	LS1711740	
DWG. NO.:	1711740RD1.1	

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 2000'
DATE: 11-29-2017
SURVEYED BY: BK/CG
DRAWN BY: AIAC
APPROVED BY: RMH
SHEET: 1 OF 3

**3BEAR FIELD SERVICES, LLC
PROPOSED ACCESS ROAD FOR THE
COTTONWOOD FEE SWD #1
SECTION 20, T26S, R28E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



DESCRIPTION

A strip of land 20 feet wide, being 720.24 feet or 43.651 rods in length, lying in Section 20, Township 26 South, Range 28 East, N. M. P. M., Eddy County, New Mexico, being 10 feet left and 10 feet right of the following described survey of a centerline across the lands of David & Laverne Maley, according to a deed filed for record in Book 997, Page 475, of the Deed Records of Eddy County, New Mexico:

BEGINNING at Engr. Sta. D+00, a point in the Southwest quarter of Section 20, which bears, N 86°59'05" W, 1,940.72 feet from a brass cap, stamped "1941", found for the South quarter corner of Section 20;

Thence, N 89°56'42" W, 621.82 feet, to Engr. Sta. 6+21.82, a P. I. of 15°56'08" left;

Thence, S 74°07'10" W, 98.42 feet, to Engr. Sta. 7+20.24, a point on the West line of Section 20, which bears, S 00°04'48" E, 2,594.46 feet from a brass cap, stamped "1941", found for the West quarter corner of Section 20.

Said strip of land contains 0.331 acres, more or less, and is allocated by forties as follows.

SCALE: 1" = 1000'
0 500' 1000'

SW 1/4 SW 1/4 43.651 Rods 0.331 Acres

BEARINGS ARE GROUND MAG. BY
N. M. EAST
DISTANCES ARE MEASURED GROUND

LEGEND

() RECORD DATA - CLO

◆ FOUND MONUMENT AS NOTED

— PROPOSED ACCESS ROAD

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plot from an actual survey made on the ground under my direct supervision, said survey and plot meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19580



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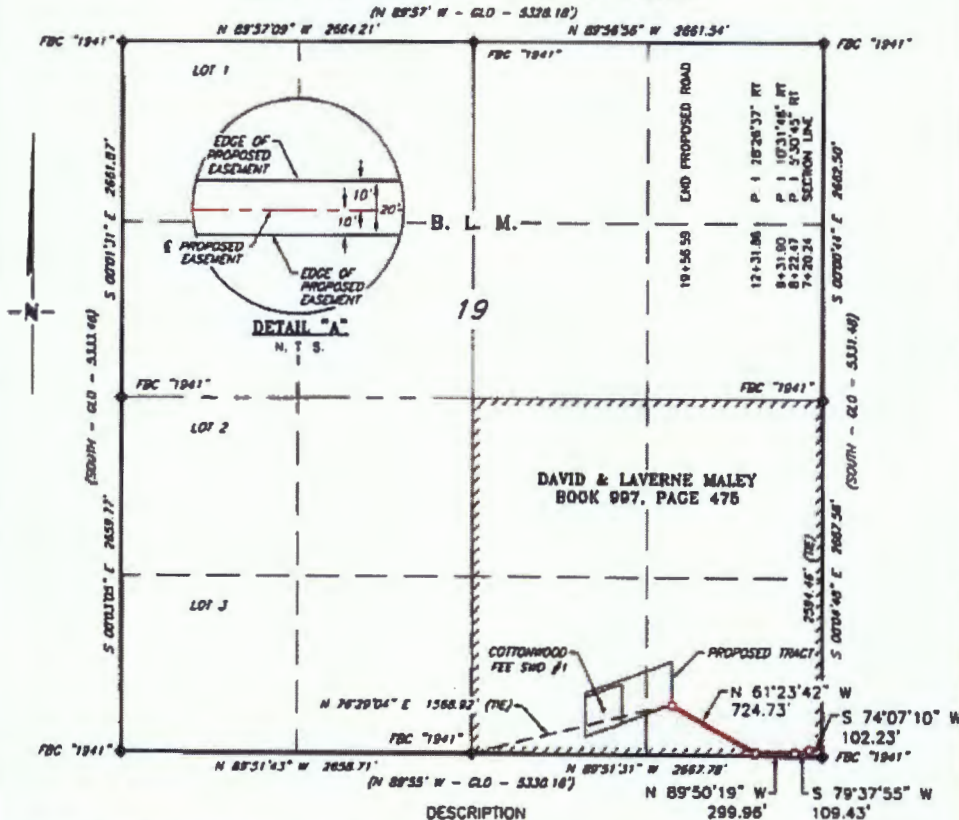
NO.	REVISION	DATE
JOB NO.:	LS1711740	
DWG. NO.:	1711740RD1.2	

RRC

308 W. BROADWAY ST., HOBBBS, NM 88240 (575) 964-8200

SCALE:	1" = 1000'
DATE:	11-29-2017
SURVEYED BY:	BK/CG
DRAWN BY:	ALAC
APPROVED BY:	RMH
SHEET:	2 OF 3

3BEAR FIELD SERVICES, LLC
PROPOSED ACCESS ROAD FOR THE
COTTONWOOD FEE SWD #1
SECTION 19, T26S, R26E
N. M. P. M., EDDY COUNTY, NEW MEXICO



A strip of land 20 feet wide, being 1,236.35 feet or 74.930 rods in length, lying in Section 19, Township 26 South, Range 26 East, N. M. P. M., Eddy County, New Mexico, being 10 feet left and 10 feet right of the following described survey of a centerline across the lands of David & Laverne Maley, according to a deed filed for record in Book 997, Page 475, of the Deed Records of Eddy County, New Mexico:

BEGINNING at Engr. Sta. 7+20.24, a point on the East line of Section 19, which bears, S 00°04'48" E, 2,594.46 feet from a brass cap, stamped "1941", found for the East quarter corner of Section 19;

Thence, S 74°07'10" W, 102.23 feet, to Engr. Sta. 8+22.47, a P. I. of 5°30'45" right;

Thence, S 78°37'55" W, 109.43 feet, to Engr. Sta. 9+31.90, a P. I. of 10°31'46" right;

Thence, N 89°50'19" W, 299.96 feet, to Engr. Sta. 12+31.86, a P. I. of 28°26'37" right;

Thence, N 61°23'42" W, 724.73 feet, to Engr. Sta. 19+56.59, the End of Survey, a point in the Southeast quarter of Section 19, which bears, N 76°29'04" E, 1,568.92 feet from a brass cap, stamped "1941", found for the South quarter corner of Section 19.

Said strip of land contains 0.568 acres, more or less, and is allocated by forties as follows:

SCALE: 1" = 1000'

0 500' 1000'

BEARINGS ARE GRID MAG. BY
 NEW DIST.
 DISTANCES ARE HORZ. GROUND

LEGEND

() RECORD DATA - GLO

◆ FOUND MONUMENT AS NOTED

PROPOSED ACCESS ROAD

SE 1/4 SE 1/4 74.930 Rods 0.568 Acres

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
 Robert M. Howett NM PS 19880



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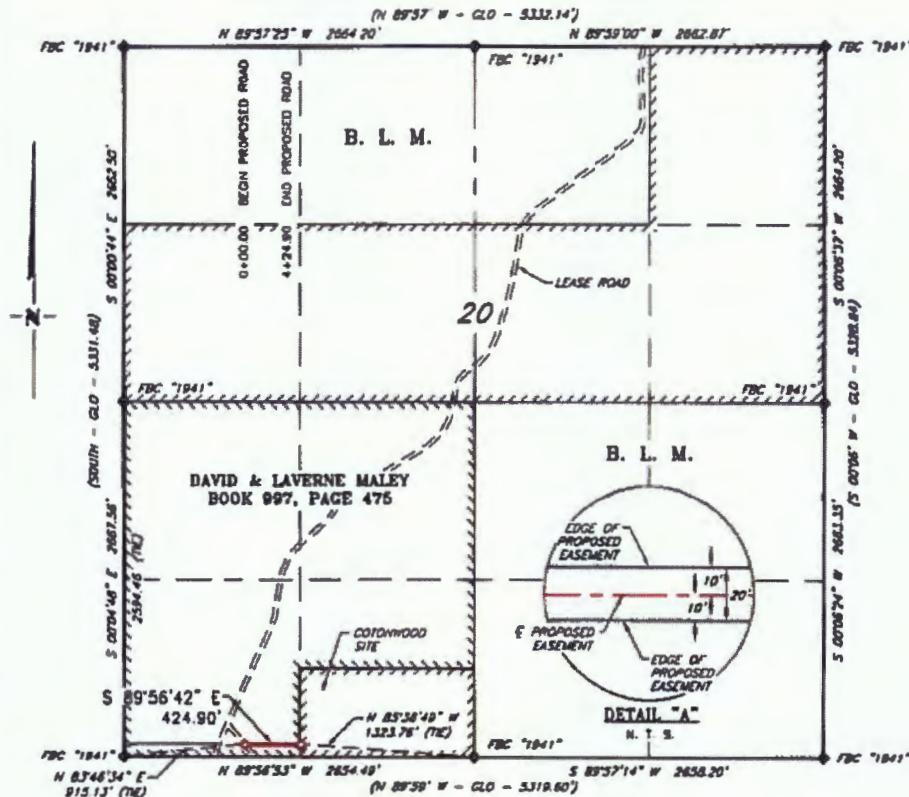
NO.	REVISION	DATE
1		
JOB NO.:	LS1711740	
DWG. NO.:	1711740RD1.3	

RRC

308 W. BROADWAY ST., HOBBES, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 11-29-2017
SURVEYED BY: BK/CG
DRAWN BY: AJAC
APPROVED BY: RMH
SHEET: 3 OF 3

**3BEAR FIELD SERVICES, LLC
PROPOSED ACCESS ROAD TO THE
COTTONWOOD SITE
SECTION 20, T26S, R26E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



DESCRIPTION

A strip of land 20 feet wide, being 424.90 feet or 25.751 rods in length, lying in Section 20, Township 26 South, Range 26 East, N. M. P. M., Eddy County, New Mexico, being 10 feet left and 10 feet right of the following described survey of a centerline across the lands of David & Laverne Maley, according to a deed filed for record in Book 997, Page 475, of the Deed Records of Eddy County, New Mexico:

BEGINNING at Engr. Sta. 0+00, a point in the Southwest quarter of Section 20, which bears, N 83°46'34" E, 915.13 feet from a brass cap, stamped "1941", found for the Southwest corner of Section 20;

Thence, S 89°56'42" E, 424.90 feet, to Engr. Sta. 4+24.90, the End of Survey, a point in the Southwest quarter of Section 20, which bears, N 85°36'49" W, 1,323.76 feet from a brass cap, stamped "1941", found for the South quarter corner of Section 20.

Said strip of land contains 0.195 acres, more or less, and is allocated by forties as follows:

SCALE: 1" = 1000'
0 500' 1000'

SW 1/4 SW 1/4	25.302 Rods	0.192 Acres
SE 1/4 SW 1/4	0.449 Rods	0.003 Acres

BEARINGS ARE GRID MAG. & J
NAD 83
DISTANCES ARE MEAS. GROUND.

LEGEND

() RECORD DATA - CLO

◆ FOUND MONUMENT AS NOTED

— PROPOSED ACCESS ROAD

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680



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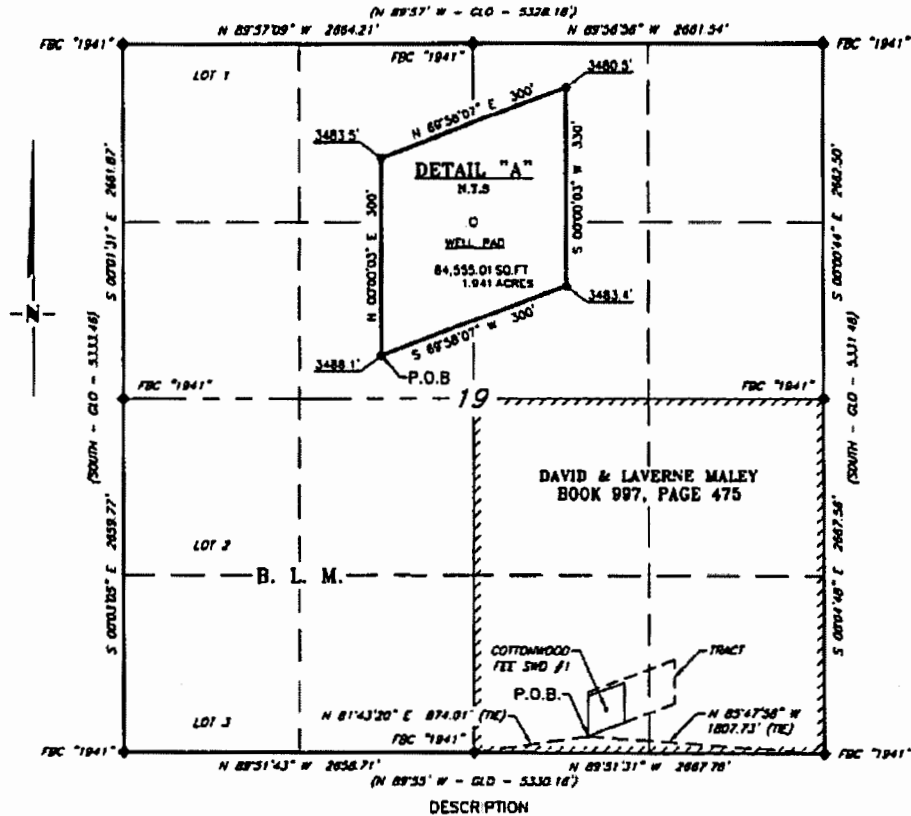
NO.	REVISION	DATE
JOB NO.:	LS1711740	
DWG. NO.:	1711740RD2	

RRC

306 W. BROADWAY ST., MOORE, NM 88140 (505) 964-8200

SCALE: 1" = 1000'
DATE: 11-29-2017
SURVEYED BY: BK/CG
DRAWN BY: AJAC
APPROVED BY: RMH
SHEET: 1 OF 1

**3BEAR FIELD SERVICES, LLC
SURVEY FOR THE PROPOSED
COTTONWOOD FEE SWD #1 PAD
SECTION 19, T26S, R26E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



DESCRIPTION

A tract of land situated within the Southeast quarter of Section 19, Township 26 South, Range 26 East, N. M. P. M., Eddy County, New Mexico, across the lands of David & Laverne Maley, according to a deed filed for record in Book 997, Page 475, of the Deed Records of Eddy County, New Mexico, and being more particularly described by metes and bounds as follows:

BEGINNING at a point, which bears N 81°43'20" E, 874.01 feet from a brass cap, stamped "1941", found for the South quarter corner of Section 19, and bears N 85°47'58" W, 1807.73 feet from a brass cap, stamped "1941", found for the Southeast corner of Section 19,

Thence N 00°00'03" E, 300 feet, to a point,

Thence N 69°58'07" E, 300 feet, to a point;

Thence S 00°00'03" W, 300 feet, to a point;

Thence S 69°58'07" W, 300 feet, to the Point of Beginning.

Said tract of land contains 84,555.01 square feet or 1.941 acres, more or less and is allocated by forties as:

SCALE: 1" = 1000'
0 500' 1000'

BEARINGS ARE GRID MAG. & J.
N.M. EAST
DISTANCES ARE HORZ. GROUND.

LEGEND

() RECORD DATA - CLO

◆ FOUND MONUMENT AS NOTED

SW 1/4 SE 1/4 84,555.01 Sq Ft 1.941 Acres

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680



Copyright 2017 - All Rights Reserved

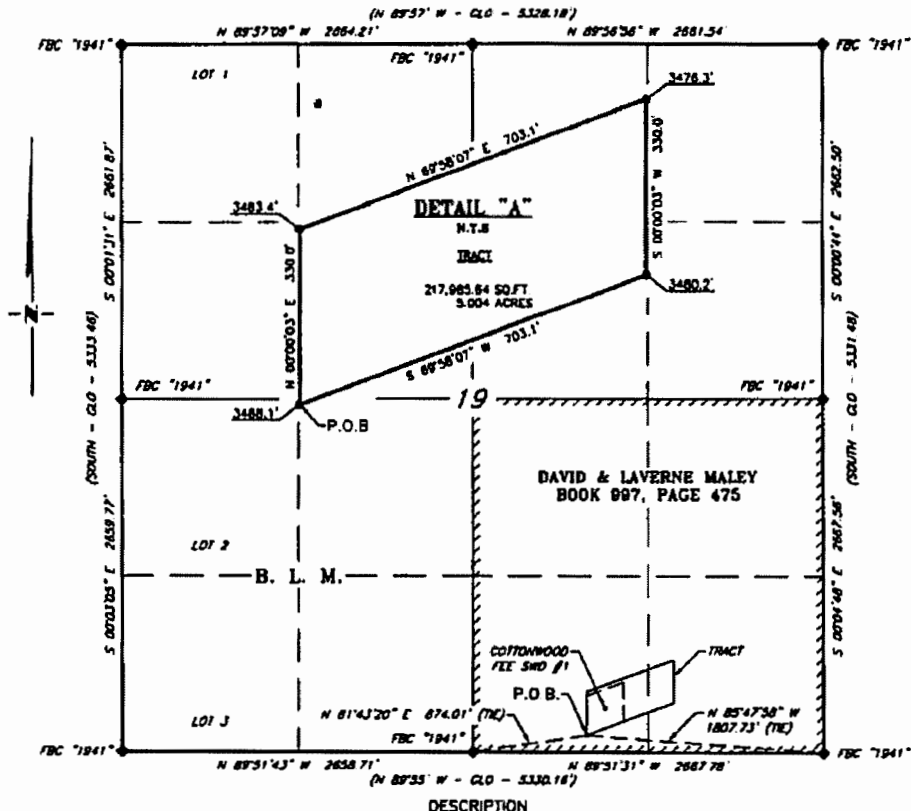
NO.	REVISION	DATE
1		
JOB NO.:	LS1711740	
DWG. NO.:	1711740TR1	

RRC

308 W. BROADWAY ST., MOBES, NM 88240 (575) 864-8200

SCALE: 1" = 1000'
DATE: 11-29-2017
SURVEYED BY: BK/CG
DRAWN BY: AJAC
APPROVED BY: RMH
SHEET: 1 OF 1

**3BEAR FIELD SERVICES, LLC
SURVEY FOR THE PROPOSED
COTTONWOOD FEE SWD #1 TRACT
SECTION 19, T26S, R26E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



DESCRIPTION

A tract of land situated within the Southeast quarter of Section 19, Township 26 South, Range 26 East, N. M. P. M., Eddy County, New Mexico, across the lands of David & Laverne Maley, according to a deed filed for record in Book 997, Page 475, of the Deed Records of Eddy County, New Mexico, and being more particularly described by metes and bounds as follows:

BEGINNING at a point, which bears N 81°43'20\" E, 874.01 feet from a brass cap, stamped \"1941\", found for the South quarter corner of Section 19, and bears N 85°47'58\" W, 1,807.73 feet from a brass cap, stamped \"1941\", found for the Southeast corner of Section 19:

Thence N 00°00'03\" E, 330 feet, to a point,
Thence N 69°58'07\" E, 703.1 feet, to a point,
Thence S 00°00'03\" W, 330 feet, to a point;
Thence S 69°58'07\" W, 703.1 feet, to the Point of Beginning.

Said tract of land contains 217,985.64 square feet or 5.004 acres, more or less and is allocated by forties as:

SW 1/4 SE 1/4	154,740.89 Sq. Ft.	3.552 Acres
SE 1/4 SE 1/4	63,244.75 Sq. Ft.	1.452 Acres

SCALE: 1\" = 1000'
0 500' 1000'
BEARINGS ARE GRID MAG. BY
N.M. EAST
DISTANCES ARE MEAS. GROUND.

LEGEND
() RECORD DATA - GLO
◆ FOUND MONUMENT AS NOTED

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680



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NO.	REVISION	DATE
JOB NO.:	LS1711740	
DWG. NO.:	1711740TR2	

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1\" = 1000'
DATE: 11-29-2017
SURVEYED BY: BK/CG
DRAWN BY: AJAC
APPROVED BY: RMH
SHEET: 1 OF 1

ADDENDUM

To

APPLICATION TO DRILL

Cottonwood Fee SWD #1

3Bear Field Services, LLC

Unit Letter O, 330' FSL & 1662' FEL, Section 19,

T26S, R26E, N.M.P.M. Survey

Eddy County, New Mexico

This attachment is a continuation of responses to the questions asked within the NM OCD Form C101 Application to Drill.

1. Location: SHL 330' FSL & 1662' FEL with BHL Same as above
2. Elevation above Sea Level at Ground Reference: 3483'
3. Geologic name of surface formation: Quaternary Alluvium Deposits
4. Drilling tools and associated equipment: Conventional rotary drilling rig utilizing a managed fluid as the circulating medium for well control and for solids removal.
5. Proposed Drilling Depth: MD 13,000' FS & TVD 13,000'
6. Estimated tops of Geological markers:

FORMATION	MD, ft	TVD, ft	TVDSS, ft	LITHOLOGY
Castile		85	3425	Anhy & Salt
Delaware Mtn Gr		1625	1885	SS, SLTST, & SH
Bone Spring		5010	-1500	LS & SH
1st Bone Spring SS		5890	-2380	SS, SLTST, & SH
2nd Bone Spring SS		6415	-2905	SS, SLTST, & SH
3rd Bone Spring LS		6835	-3325	LS, SS, & SH
3rd Bone Spring SS		7805	-4295	SS, SLTST, & SH
Wolfcamp		7970	-4460	SLTST, LS, & SH
Wolfcamp "B"		8410	-4900	SS & SH
Wolfcamp "C"		8835	-5325	LS & SH
Strawn		9535	-6025	LS
Atoka		9660	-6150	SH & LS
Morrow Clastics		10310	-6800	SH & SS
Barnett		11070	-7560	SH
Mississippian LS		11460	-7950	LS
Woodford		11650	-8140	SH
Siluro-Devonian		11755	-8245	LS & DOL

7. Potential mineral bearing formations:

Yates, Seven Rivers, Queen, Glorieta, Yeso, Delaware Section, Bone Springs Section, Wolfcamp Section-Oil and Atoka/Morrow-Gas

8. Proposed mud circulating system:

Depth	Type Mud	Mud Weight	Mud Viscosity	pH	Cl-ppm	% Solids
0-300	SPUD	8.4-9.7	32-38	10.0	1-6K	3%-8%
300-1950	BRINE	10.0	28.0	10.0	186K	.75%-1.0%
1,950-8,000	CB	9.3-9.4	28.0	10.0	120-160K	.5%-.75%
8,000-8,400	CB	9.3-9.6	28.0	10.0	120-160K	.75%-1.0%
8,400-10,850	BR/POLY	10.0-10.5	38-45	10.0	186K	3.0%-6.0%
10,850-11,760	BR/POLY	10.5-12.0	40-50	10.0	186K	5.0%-7.0%
11,760-13,000	CB	8.9-9.0	28.0	10.0	3-6K	.5%-.75%

9. Casing Program:

DRILLING: Cotonwood SWD #1							
Description	Process	Bottom of Pipe	Top of Pipe	Size of Pipe	Weight per Foot	API Grade	Thread Type
Conductor	Spud well	150	Surface	20	94	H-40	Buttress
Surface	Intermediate	1650	Surface	13.375	54.5	J-55	8rd ST&C
Production	Production	7965	Surface	9.625	43.5	HCL-80	8rd LT&C
Production	Production	11760	7500	7.625	39	HCP-110	8rd LT&C
	Liner			7	32	HCP-110	8rd LT&C
COMPLETION:							
Disposal	Tubing	13,000		4 1/2	12.75	P-110	CS Hydrill/PH6 W/Teflon Ring

10. Cement Program:

CEMENT PROGRAM:						
Description	Bottom of Pipe	Size of Drill Hole	Size of Pipe	Cement Type & Additives	Cement Volume	Top of Cement
Conductor	300	26	20	Class C w/2% KCL	675 Sacks	Surface
Surface	1950	17-1/2	13-3/8	LEAD: Class C w/2% KCL + Celloflake+Bentonite Extender TAIL: Class C w/1% PF1 Calcium	900 Sacks 200 Sacks	Surface Surface
Production	8100	12 25	9 5/8	LEAD: 50/50 P/H _ 5% BWOW & Salt + 10% Bentonite Gel + Celloflake TAIL: Class 50/50 P/H + 2% PF20 Gel + 3% Fluid Loss	1400 Sacks 300 Sacks	Surface Surface
Production	11700	8.75	7	Class H 50/50 +2% Bentonite Gel + 5% Fluid Loss	940 Sacks	Top of Liner

According to borings in Section 20, groundwater can be found at 33' from surface. The closest producing water well is ¾ mile to the northeast of proposed SWD well site. This water well produces from 33' from the surface.

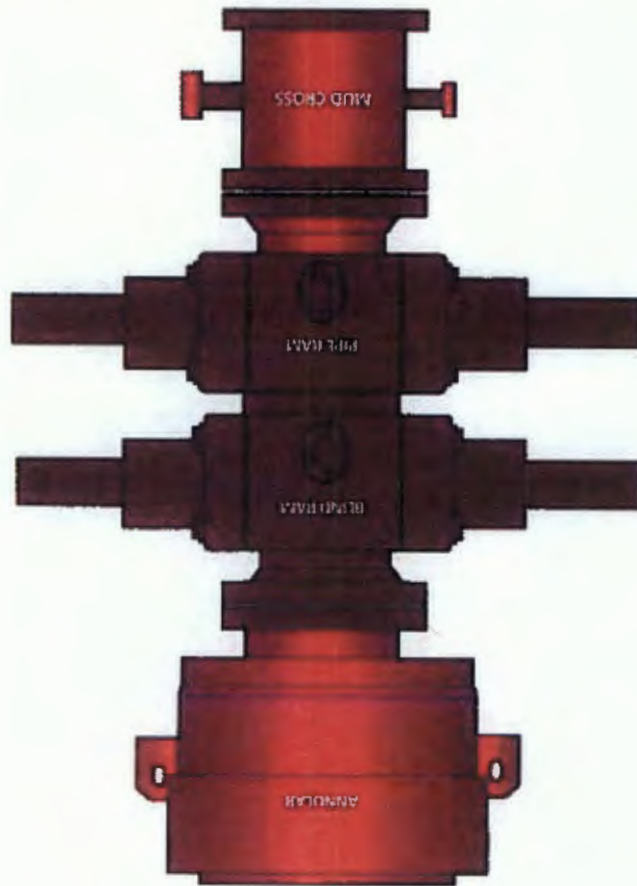
11. Pressure Control Equipment;

Exhibit E. A 13-3/8" 5000 PSI working pressure BOP system tested to 3000 PSI consisting of one set of blind rams and one set of pipe rams and a 5000 PSI annular preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head as needed. A Kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor. Mud gas separator will be available if drilling into H2S areas.

BOP unit will be hydraulically operated. BOP will be nipped up and operated at least once per day while drilling and the blind rams will be operated when out of the hole during trips. No abnormal pressure or temperature is anticipated. From the base of the 13-3/8" casing through the running of the production liner, the well will be equipped with a 5000 PSI BOP system tested to 3000 PSI.

BOPS will be tested by an independent service company to 250 PSI low and 3000 PSI high. Schaffer will be tested to 250 PSI low and 1500 PSI high.

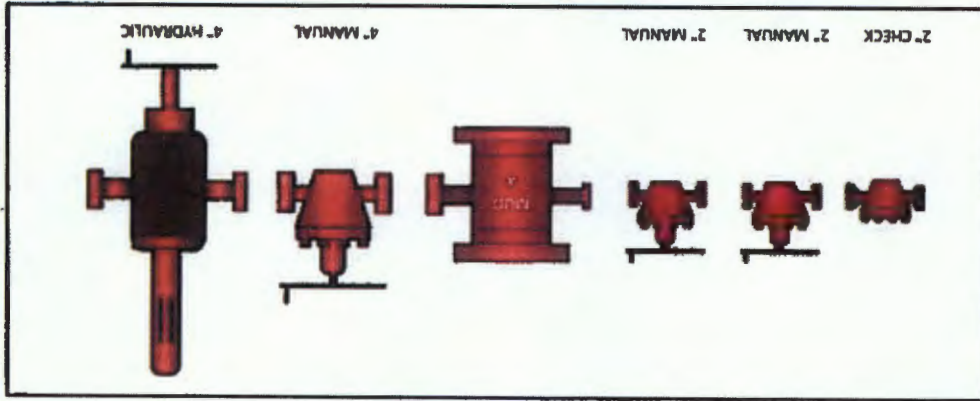
5M BOPE SCHEMATIC



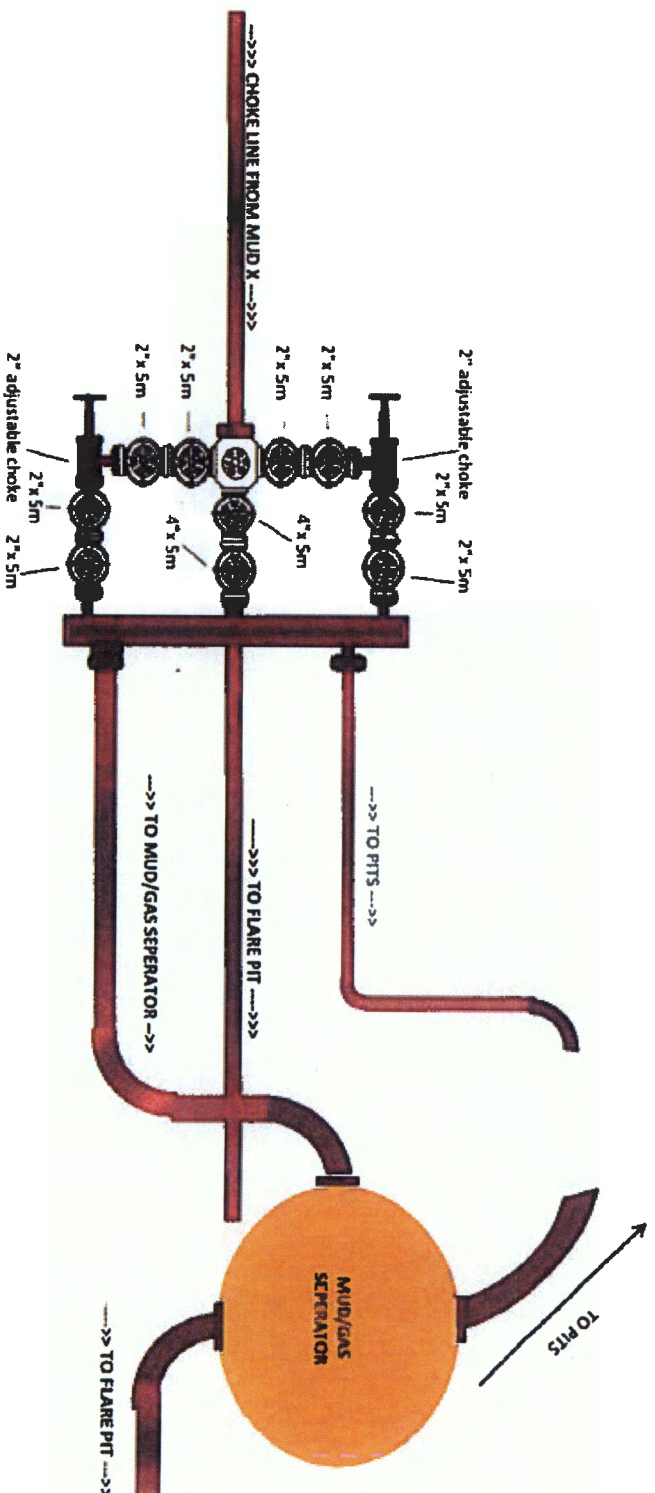
ANNULAR
 STYLE: SHAFFER
 BORE: 13 5/8" PRESSURE: 5,000
 HEIGHT: 45 1/2" WEIGHT: 13,650

DOUBLE RAM
 STYLE: SHAFFER LWS
 BORE: 13 5/8" PRESSURE: 5,000
 RAMS: TOP BLIND BTM: 4 1/2" PIPE
 HEIGHT: 50 1/2" WEIGHT: 13,800

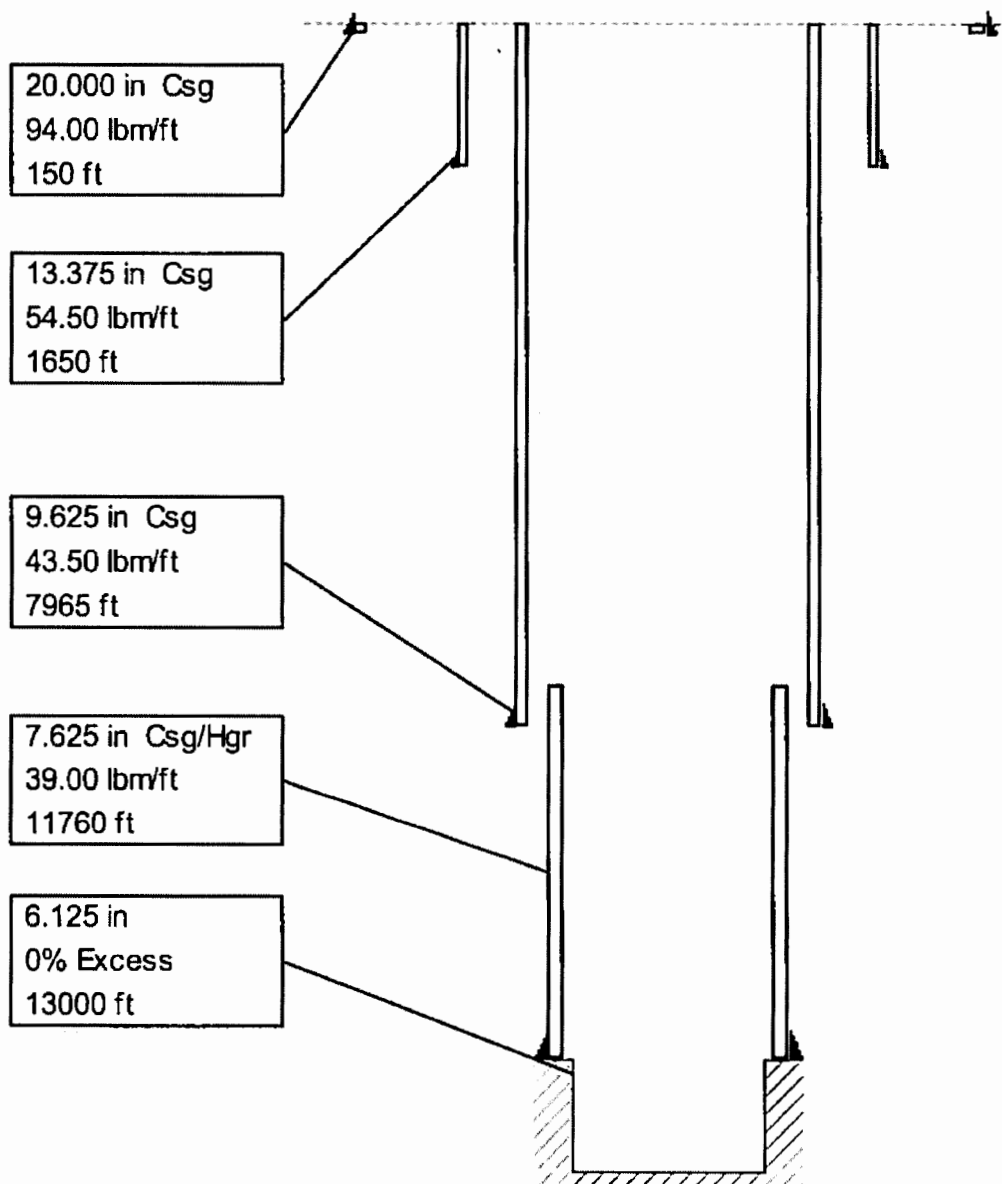
MUD CROSS
 LENGTH: 24"
 OUTLETS: 2" x 5M 4" x 5M
 FLANGES: 13 5/8" 5M x 13 5/8" 5M



5M CHOKE MANIFOLD ARRANGEMENT



Cottonwood Fee SWD #1
3Bear Field Services, LLC
C-101
Wellbore Diagram
Created on 5/20/2018 10:42:07 AM



HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

Libby Berry Fee SWD #1

Unit O , Section 19

T26S, R26E, Eddy County, NM

1. All personnel admitted to drilling location must be H2S certified:
All Company and Contract personnel admitted on location must be trained by a qualified H2S instructor to the following:
 - A. Characteristics of H2S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems
 - D. Principle and operation of H2S detectors, warning system and briefing areas
 - E. Evacuation procedure, routes and first aid
 - F. Proper use of 30 minute pressure demand pack
2. H2S Detection and Alarm Systems:
 - A. H2S detectors and audio alarm system to be located at bell nipple, end of flowline (mud pit) and on derrick floor or doghouse.
3. Windssocks and wind streamers:
 - A. Windssock at mud pit should be high enough to be readily visible
 - B. Windssock at briefing area should be high enough to be readily visible
4. Condition Flags and Signs:
 - A. Warning signs on access road to location
 - B. Flags to be displayed on sign at entrance to location.
 - a. Green flag indicates normal safe condition.
 - b. Yellow flag indicates potential pressure and danger.
 - c. Red flag indicates danger (H2S present in dangerous concentration). Only emergency personnel admitted to location
5. Well control equipment:
 - A. See Exhibit E
6. Communication:
 - A. While working under masks, chalkboards will be used for communication
 - B. Hand signals will be used where chalkboard is inappropriate
 - C. Two way radio will be used to communicate off location in case emergency help is required. In most cases cellular telephones will be available at drilling foreman's trailer or living quarters.
7. Drillstem Testing:
 - A. No DST's nor cores are planned for this drilling program
8. Metallurgical effect of H2S:
 - A. Drilling contractor shall be required to be familiar with the effects of H2S on tubular goods and other mechanical equipment
9. Mud system changes to control H2S:
 - A. Should H2S be encountered, the mud system will be altered as necessary to maintain control of the formation. A mud gas separator will be placed in service along with H2S scavengers as needed.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responders must:

- Isolate the area and prevent entry by other persons into the area;
- Evacuate any public places encompassed by the release area;
- Be equipped with H₂S monitors and air packs in order to control the release;
- Use the "buddy system" to ensure that no injuries occur during the response;
- Take precautions to avoid personal injury during this operation;
- Contact operator and/or local officials to aid in the operation -- a list of safety contact numbers is attached;
- Have received training in the:
Detection of H₂S, and
Become trained in the measures for protection against the gas, and
Become trained in the use of the equipment used for protection and emergency response.

Ignition of the Gas Source

Should control of the well deteriorate or be considered lost and ignition is a possibility or is being considered, take care to protect against exposure to Sulphur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD, the operator, and both the State and Local officials. Once the State Police become involved, they shall be the Incident Command on scene. Take care to protect downwind during the release and during the ignition phase.

Characteristics of H₂s and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulphur Dioxide	SO ₂	2.21 Air=1	2 ppm	N/A	1000 ppm

H2S Contingency Plan and Emergency Contacts

Libby Berry Fee SWD #1

3Bear Field Service, LLC

Unit H, Section 26, T20S, R34E

<u>Company Office:</u>		Office	Direct	Mobile
3Bear Energy, LLC		303/626-8290		
<u>Key Personnel</u>				
Name	Title	Office	Direct	Mobile
Mike Solomon	VP/COO	303/626-8290	303/862-3960	303/921-9117
Kevin Burns	Senior Engineer			432/3120843
Phelps White	Drilling Consultant			575/626-7660
Rory McMinn	Advisor			575/626-7100
<u>Eunice, NM</u>				
Ambulance			911	
State Police		575/392-5580		
City Police		575/394-2112		
Sheriff's Office		575/396-3611		
Fire Department		575/394-3258		
<u>Hobbs, NM</u>				
Ambulance			911	
State Police		575/392-5580		
City Police		575/397-9265		
Sheriff's Office		575/396-3611		
Fire Department		575/397-9311		
New Mexico Oil Conservation Division		575/393-6161		
<u>Carlsbad, NM</u>				
Ambulance			911	
State Police		575/885-3137		
City Police		575/885-2111		
Sheriff's Office		575/887-7551		
Fire Department		575/887-3798		
Local Emergency Planning		575/887-6544		
<u>Santa Fe, NM</u>				
New Mexico Emergency Response Commission		505/476-9600		
New Mexico Emergency Response Commission 24 hrs		505/827-9126		
New Mexico Emergency Operations Center		505/476-9635		
<u>National</u>				
National Emergency Response Center, Wash, DC		800/424-8802		
Medical				
Flight for Life - 4000 24th St., Lubbock, TX		806/743-9911		
Aerocare - R3, Box 49C, Lubbock, TX		806/747-8923		
Med Flight Air Amb - 2301 Yale Blvd. SE #D3, Albuquerque, NM		505-842-4433		
SB Air Med Service - 2505 Clark Carr Loop S.E., Albuquerque, NM		505/842-4949		
<u>Other</u>				
Boots & Coots IWC		800/256-9688		
Elite Well Service				
Cudd Pressure Control		432/699-0139		
Halliburton		575/746-2757		

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-015-44600
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Cottonwood Fee SWD
8. Well Number 1
9. OGRID Number 320495
10. Pool name or Wildcat SWD; Devonian-Silurian
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3483' GL

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

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

2. Name of Operator

3Bear Field Services, LLC

3. Address of Operator

1512 Larimer St., Suite 540, Denver CO 80202

4. Well Location

Unit Letter: Q

330 feet from the South line and 1662 feet from the East line

Section 19

Township 26 S

Range 26 E

NMPM Eddy County

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

3483' GL

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

Will change production casing from 7" 29# HCP-110 LT&C to 7.625" 39# HCP-110 UFJ liner. Will tie-back liner to 150' above the 9.625" shoe. (That shoe will be @ ~8100'.) This will allow for more space between the injection tubing and the production string if needed.

RECEIVED

Spud Date:

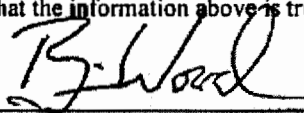
Rig Release Date:

MAY 14 2018

DISTRICT II-ARTESIA O.C.D.

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

SIGNATURE



TITLE Consultant

DATE 5-9-18

Type or print name Brian Wood

E-mail address: brian@permitswest.com

PHONE: (505) 466-8120

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any): _____

Goetze, Phillip, EMNRD

From: Goetze, Phillip, EMNRD
Sent: Tuesday, May 15, 2018 4:15 PM
To: Brian Wood (brian@permitswest.com); 'Kevin Burns'
Cc: Klein, Ranell, EMNRD; Podany, Raymond, EMNRD; McMillan, Michael, EMNRD; 'Rory McMinn'; Bratcher, Mike, EMNRD
Subject: FW: 3Bear Field Services, LLC - Cottonwood Fee SWD #1
Attachments: Scanned from a Xerox Multifunction Printer.pdf

RE: Cottonwood Fee SWD No. 1; 30-015-44600; pMAM1808855135

Gentlemen:

It seems this C-108 application is somewhat of a "moving target". The approval of the application is based on content submitted to Santa Fe with modification following the approval of the administrative order. If you wish to modify the construction of a "pending" application, I would suggest preparing a new completion diagram for consideration and inclusion in the application as a minor modification. Therefore, I am requesting the District Supervisor deny the C-101 and will be expecting a new well diagram showing the changes. One approval of the order is finalized, you may submit a Sundry for any and all changes from the original APD filed with the District for this well. The District will be able to reference the approved construction found in the C-108 application which itself becomes part of the administrative order as is the standard protocol.

And one final note - 200-foot tie-in is a minimum, 300 would be better. You may contact me with any questions regarding the content of the e-mail at your convenience. 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: Klein, Ranell, EMNRD
Sent: Tuesday, May 15, 2018 3:51 PM
To: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: 3Bear Field Services, LLC - Cottonwood Fee SWD #1

Phillip,

We received this sundry to alter their casing design yesterday. Can you take a look at it and approve it? I think aren't you guys supposed to approve these now? Could be wrong.....

Rusty Klein
Business Operations Specialist – A
NMOCD – Division 2
811 South First Street
Artesia, NM 88210

575-748-1283 – ext. 109

-----Original Message-----

From: EMNRDOCD7835XWC@state.nm.us <EMNRDOCD7835XWC@state.nm.us>

Sent: Tuesday, May 15, 2018 3:49 PM

To: Klein, Ranell, EMNRD <Ranell.Klein@state.nm.us>

Subject: Scanned from a Xerox Multifunction Printer

Please open the attached document. It was scanned and sent to you using a Xerox Multifunction Printer.

Attachment File Type: pdf, Multi-Page

Multifunction Printer Location: ARTESIA

Device Name: OCART-XWC7835

For more information on Xerox products and solutions, please visit <http://www.xerox.com>



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

DATE RECORD: First Rec: 03/29/18 Admin Complete: 03/29/18 or Suspended: — Add. Request/Reply: * 05/20/18
 ORDER TYPE: WFX / PMX / SWD Number: 1736 Order Date: 04/06/18 Legacy Permits/Orders: None

Well No. 1 Well Name(s): Cottonwood Fee SWD

API: 30-015-44600 Spud Date: TBD New or Old (EPA): New (UIC Class II Primacy 03/07/1982)

Footages 330' FSL / 1662' FEL Lot — or Unit 0 Sec 19 Tsp 26S Rge 26E County Eddy

General Location: South of headwaters of May Hollow / SE of White Pool: SWD; Devonian-Silurian Pool No.: 97869

BLM 100K Map: Carlsbad Operator: 3Bear Field Services LLC OGRID: 372603 Contact: B. Wood / Permits West

COMPLIANCE RULE 5.9: Total Wells: 2 Inactive: 0 Fincl Assur: Yes Compl. Order? 16 IS 5.9 OK? Yes Date: 6/6/18

WELL FILE REVIEWED ☒ Current Status: APD approved; well design modified 05/20/2018

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

Planned Rehab Work to Well: * Modified well design - casing changes Conductor casing: 0 to 150'
26-in / 20-in; cmt 675 SX

Well Construction Details *	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method	
Planned <input checked="" type="checkbox"/> or Existing <u>1</u> Surface	17 1/2 / 13 3/8	0 to 1650	Stage Tool	1100	Cir. to surface
Planned <input checked="" type="checkbox"/> or Existing <u>Interm/Prod</u>	12 1/4 / 9 5/8	0 to 7965	None	1700	Cir. to surface
Planned <input type="checkbox"/> or Existing <u>Interm/Prod</u>	—	—	—	—	—
Planned <input checked="" type="checkbox"/> or Existing <u>Prod/Liner</u>	— / 7 5/8	7500' to 11760	None	940	TOC / Calculated
Planned <input type="checkbox"/> or Existing <u>Liner</u>	—	—	—	—	—
Planned <input checked="" type="checkbox"/> or Existing <u>OH / PERF</u>	6 7/8	11,760 to 13,000	Inj Length 1240	Completion/Operation Details:	

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		Mississippian	11460
Confining Unit: <u>Litho.</u> Struc. <u>Por.</u>	<u>< 25</u>	Woodford Shale	11650
Proposed Inj Interval TOP:	11760	Devonian	11755
Proposed Inj Interval BOTTOM:	13000	Silurian	13000
Confining Unit: Litho. Struc. <u>Por.</u>	<u>< 13000</u>	Montoya / Ord	NR
Adjacent Unit: Litho. Struc. Por.		—	—

Completion/Operation Details:
 Drilled TD — PBTD —
 NEW TD 13000 NEW PBTD —
 NEW Open Hole ☒ or NEW Perfs ☐
 Tubing Size 4 1/2 in. Inter Coated? Yes
 Proposed Packer Depth 11700 ft
 Min. Packer Depth 11660 (100-ft limit)
 Proposed Max. Surface Press. 2000 psi
 Admin. Inj. Press. 2352 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P No Noticed? NA BLM Sec Ord 16 WIPP No Noticed? NA Salt/Salado T: ~400' B: ~1450' NW: Cliff House fm

FRESH WATER: Aquifer Alluvial / Rustler Max Depth Alluvial: < 100' HYDRO AFFIRM STATEMENT By Qualified Person ☒
Rustler: < 100'

NMOSE Basin: Carlsbad CAPITAN REEF: thru — adj NA No. GW Wells in 1-Mile Radius? 15 + 1 spring FW Analysis? Yes White

Disposal Fluid: Formation Source(s) DMG; BS; WC; Penn Analysis? Yes On Lease ☐ Operator Only ☐ or Commercial ☒

Disposal Interval: Inject Rate (Avg/Max BWPD): 20000/25000 Protectable Waters? No Source: Historical System: Closed or Open

HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other Mudlog 2-Mi Radius Pool Map ☐

AOR Wells: 1/2-M Radius Map and Well List? Yes No. Penetrating Wells: 0 [AOR Horizontals: — AOR SWDs: —]

Penetrating Wells: No. Active Wells 0 Num Repairs? — on which well(s)? — Diagrams? —

Penetrating Wells: No. P&A Wells 0 Num Repairs? — on which well(s)? — Diagrams? —

NOTICE: Newspaper Date 12/09/2017 Mineral Owner BLM Surface Owner Fee / Maley N. Date 03/15/18

RULE 26.7(A): Identified Tracts? Yes Affected Persons: Chewon/Christina/Echo/Guadalupe/COG/OY/Yates NEOG + NEOG N. Date 03/15/18

Order Conditions: Issues: HC potential; possible large capacity; CBL for uncirculated & 7 5/8-9 5/8 tie
 Additional COAs: CBL for liner / uncirculated; mudlog; formation picks



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2016 MAY 27 AM 10:20

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-3811 <i>Amended</i>				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) David Maley				PHONE (OPTIONAL) 575-236-6600			
	WELL OWNER MAILING ADDRESS 2737 Pecos Hwy.				CITY STATE ZIP Carlsbad NM 88220			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 1	SECONDS 31.00 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE 104	19	29.78 W	* DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD 1690		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY MMX Inc.		
	DRILLING STARTED 6-18-15		DRILLING ENDED 6-18-15		DEPTH OF COMPLETED WELL (FT) 46		BORE HOLE DEPTH (FT) 50	
	DEPTH WATER FIRST ENCOUNTERED (FT) 15		STATIC WATER LEVEL IN COMPLETED WELL (FT) 15					
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)							
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	20	12"	Steel	N/A	8 5/8"	.188	-
	0	20	8 3/4"	PVC	spline	6"	Sch 40	-
20	45	8 3/4"	PVC	spline	6"	Sch 40	.032	
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	12"	Neat Cement grout	10	Pump Backside		
	20	45	8 3/4"	3/8" pea gravel	5			

FOR OSE INTERNAL USE

FILE NUMBER	C-3811	POD NUMBER	1	TRN NUMBER	558 403
LOCATION	STK	26S. 26E. 19. 424			PAGE 1 OF 2

OK per Bill B. 6-9-16

[illegible]

WR-20 WELL RECORD & LOG (Version 06/08/2012)

C-3811

POD NUMBER

TRN NUMBER

558403

LOCATION

STK

26S. 26E. 19. 424

PAGE 2 OF 2

Locator Tool Report

General Information:

Application ID: 28 Date: 05-23-2016 Time: 16:36:02

WR File Number: C-03811-POD1
Purpose: POINT OF DIVERSION

Applicant First Name: MALEY STOCK WELL PERMIT
Applicant Last Name: AMENDED (2ND) DRILLERS LOG COORDINATES

GW Basin: CARLSBAD
County: EDDY

Critical Management Area Name(s): NONE
Special Condition Area Name(s): NONE
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NW 1/4 of SE 1/4 of NE 1/4 of SE 1/4 of Section 19, Township 26S, Range 26E.

Coordinate System Details:

Geographic Coordinates:

Latitude: 32 Degrees 1 Minutes 31.0 Seconds N
Longitude: 104 Degrees 19 Minutes 29.8 Seconds W

Universal Transverse Mercator Zone: 13N

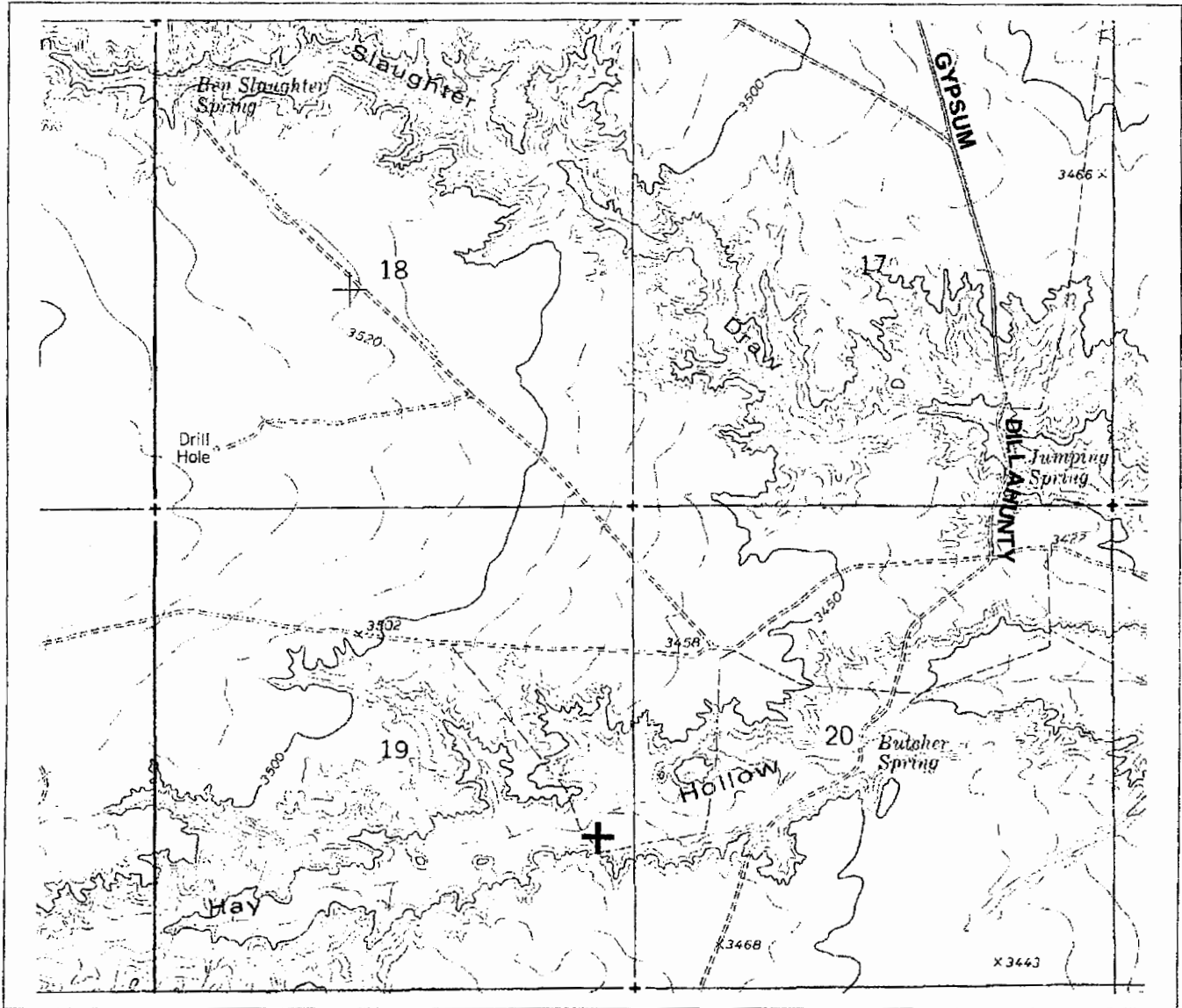
NAD 1983(92) (Meters)	N: 3,543,437	E: 563,746
NAD 1983(92) (Survey Feet)	N: 11,625,425	E: 1,849,558
NAD 1927 (Meters)	N: 3,543,236	E: 563,795
NAD 1927 (Survey Feet)	N: 11,624,767	E: 1,849,716

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 113,671	E: 165,793
NAD 1983(92) (Survey Feet)	N: 372,935	E: 543,939
NAD 1927 (Meters)	N: 113,654	E: 153,240
NAD 1927 (Survey Feet)	N: 372,879	E: 502,756

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: C-03811-POD1 Scale: 1:21,437

Northing/Easting: UTM83(92) (Meter): N: 3,543,437

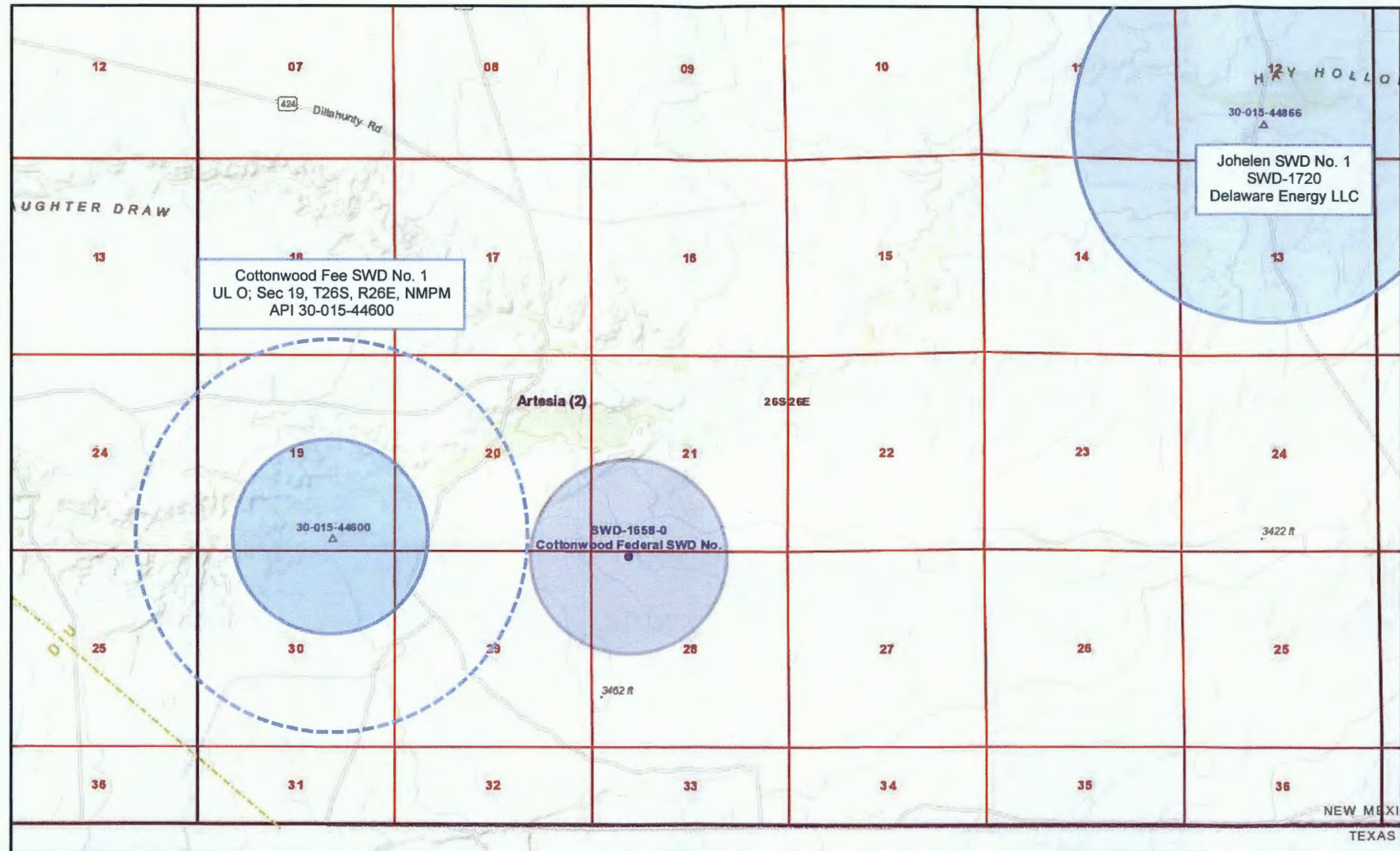
E: 563,746

Northing/Easting: SPCS83(92) (Feet): N: 372,935

E: 543,939

GW Basin: Carlsbad

Pending Applications for High-Volume Devonian Disposal Wells
C-108 Application for Cottonwood Fee SWD No. 1 – 3Bear Field Services LLC



Cottonwood Fee SWD No. 1; 3Bear Field Services LLC

API 30-015-44600; Application No. pMAM1808855135; Rcvd 03.29.2018

Proposed interval: Devonian-Silurian interval; 11,760' to 13,000'

Proposed construction: single size tubing; 4.5-inch; requested well design change to increase 7-inch liner to 7 $\frac{1}{2}$ -inch liner.

Closest Devonian Well with Large-Volume Potential: Johelen SWD No. 1 (30-015-44866) not drilled; approved tubing with 5-in x 5.5-in tapered system. Cottonwood Federal SWD No. 1 (COG Operating) designed with 7-inch liner using 4.5-in tubing; no request for additional increase in injection rate by changing to tapered tubing design.

Township 26 South Range 26 East of the New Mexico Principal Meridian, New Mexico

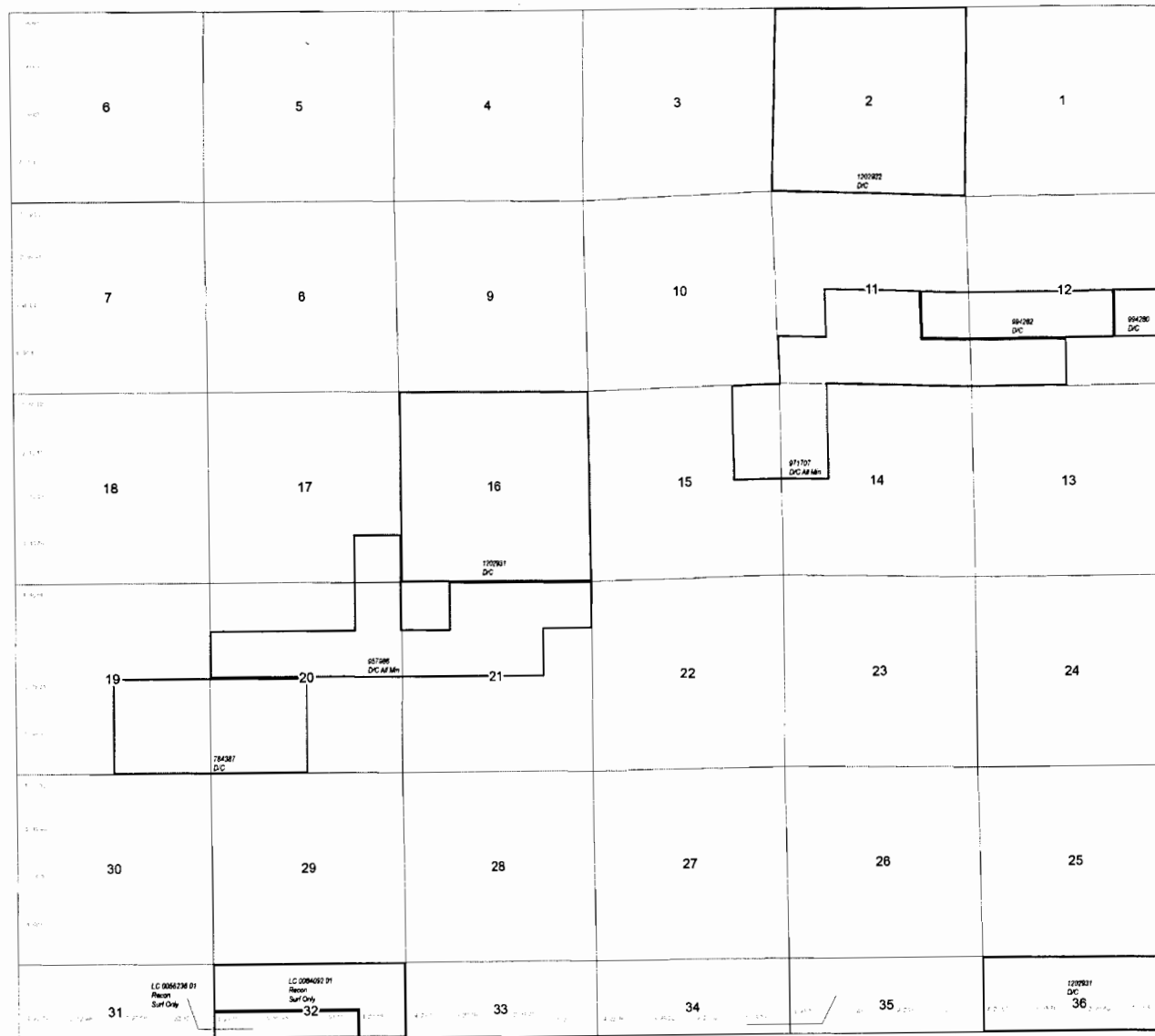
County: Eddy - 015

BLM Field Office: Carlsbad

BUREAU OF LAND MANAGEMENT
STATUS OF PUBLIC DOMAIN
LAND AND MINERALS

MTP

T26S R26E



NOTE: The Serial Numbers displayed are in the Bureau's LR2000 system format.
If there is a zero in the 7th position (from the right), the serial number has a "prefix" zero;
example NM 0012345.
If there is not a zero in the 7th position (from the right) then the serial number does not have a "prefix" zero;
example NM 012345.

For Index to Segregated Tracts, see survey plat.

0 0.25 0.5 1 Mile

1 inch = 30 chains
1:23,760

CAVEAT STATEMENT

This plat is the Bureau's Record of Title, and should be used only as a graphic display of the township survey data. Records herein do not reflect title changes which may have been affected by lateral movements of rivers or other bodies of water. Refer to the cadastral surveys for official survey information.

T 26 S
R 26 E
NMPM