

# Additional Information

Updated C-108 with new WBD  
11/30/20

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

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



**ADMINISTRATIVE APPLICATION CHECKLIST**

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

<b>Applicant:</b> Longwood Water Management Company, LLC	<b>OGRID Number:</b> 328484
<b>Well Name:</b> Jack Hammack Fed SWD 1	<b>API:</b> 30-025-
<b>Pool:</b> SWD; Devonian	<b>Pool Code:</b> 96101

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

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location – Spacing Unit – Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B. Check one only for [ I ] or [ II ]
- [ I ] Commingling – Storage – Measurement  
 DHC    CTB    PLC    PC    OLS    OLM
- [ II ] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery  
 WFX    PMX    SWD    IPI    EOR    PPR

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

<b>FOR OCD ONLY</b>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

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

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

Brian Wood \_\_\_\_\_

Print or Type Name

Signature

5-10-19  
 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: LONGWOOD WATER MANAGEMENT COMPANY, LLC  
ADDRESS: 5400 LBJ FREEWAY, SUITE 1500, DALLAS TX 75240  
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.  
**Jack Hammack Fed SWD 1**  
**Devonian (96101)**
- VII. Attach data on the proposed operation, including:
- Proposed average and maximum daily rate and volume of fluids to be injected;
  - Whether the system is open or closed;
  - Proposed average and maximum injection pressure;
  - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  - If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*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: MAY 8, 2019  
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.

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

INJECTION WELL DATA SHEET

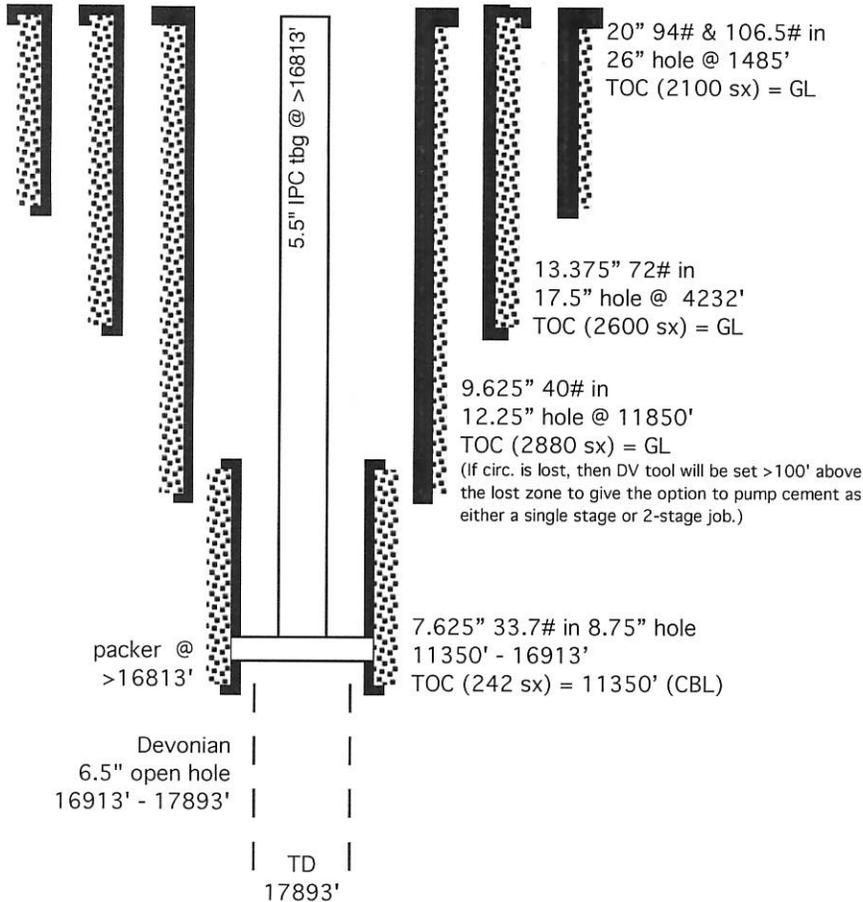
OPERATOR: LONGWOOD WATER MANAGEMENT COMPANY, LLC

WELL NAME & NUMBER: JACK HAMMACK FED SWD 1

WELL LOCATION: 133' FSL & 182' FEL      P      15      26 S      31 E  
 FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

WELLBORE SCHEMATIC

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26"      Casing Size: 20"  
 Cemented with: 2100 sx.      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: SURFACE      Method Determined: VISUAL

Intermediate Casing

Hole Size: 17.5" & 12.25      Casing Size: 13.375" & 9.625"  
 Cemented with: 2600 & 2880 sx.      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: SURFACE      Method Determined: VISUAL & CBL

Production Casing

Hole Size: 8.75"      Casing Size: 7.625" @ 11,850'  
 Cemented with: 242 sx.      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: 11,350'      Method Determined: CBL  
 Total Depth: 16,913'

Injection Interval 6.5" OPEN HOLE

16,913' feet to 17,893'

(Perforated or Open Hole; indicate which)



INJECTION WELL DATA SHEET

Tubing Size: 5.5" Lining Material: IPC

Type of Packer: STAINLESS STEEL &/OR NICKEL

Packer Setting Depth: 16,813' - 16,913'

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

3. Name of Field or Pool (if applicable): SWD; DEVONIAN (POOL CODE 96101)

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 (4,182'), BONE SPRING (8,121'), WOLFCAMP (11,376')

\_\_\_\_\_

UNDER: none

\_\_\_\_\_

I. Goal is to drill a 17,893' deep commercial saltwater disposal well on BLM. Disposal interval will be 16,913' – 17,893' in the SWD; Devonian (96101). See Exhibit A for C-102 and map.

II. Operator: Longwood Water Management Company, LLC [OGRID 328484]  
Operator phone number: (972) 371-5420  
Operator address: 5400 LBJ Freeway, Suite 1500, Dallas TX 75240  
Contact for Application: Brian Wood (Permits West, Inc.)  
Phone: (505) 466-8120

III. A. (1) Lease (BLM): NMNM-138865 Lease Size: 1,240 acres  
Lease Area: all Sec. 15 and E2, E2NW4, SWSW, & SW4 Sec. 22  
T. 26 S., R 31 E.

Well name and number: Jack Hammack Fed SWD 1

Location: 133' FSL & 182' FEL Section 15, T. 26 S., R. 31 E.

A. (2) Surface casing (20", 94 & 106.5#, J-55, BTC) will be set at 1,485' in a 26" hole and cemented to GL with 2,100 sacks (based on 50% OH excess).

First intermediate casing (13.375", 72#, P-110 HC, BTC) will be set at 4,232' in a 17.5" hole and cemented to GL with 2,600 sacks (based on 50% OH excess).

Second intermediate casing (9.625", 40#, P-110 HC, BTC) will be set at 11,850' in a 12.25" hole and cemented to GL with 2,880 sacks (based on 40% OH excess).

Production liner (7.625", 33.7#, P-110 HP, USS Liberty FJM) will be set from 11,350' to 16,913' in an 8.75" hole and cemented to 11,350' (CBL) with 242 sacks.

A 6.5" open hole will be drilled from 16,913' to 17,893'.

- A. (3) Tubing will be IPC lined, 5.5", 20#, P-110 IC, BTC. Setting depth will be  $\geq 16,813'$ . (Disposal interval will be 16,913' to 17,893'.)
  - A. (4) A stainless steel and/or nickel packer will be set at  $\geq 16,813'$  (top of the open hole which will be at 16,913').
  - B. (1) Disposal zone will be the Devonian (SWD; Devonian (96101) pool). Estimated fracture gradient is  $\approx 0.62$  to  $\approx 0.68$  psi per foot. Variation depends on whether limestone or dolomite.
  - B. (2) Disposal interval will be open hole from 16,913' to 17,893'.
  - B. (3) Well has not been drilled. It will be drilled as a saltwater disposal well.
  - B. (4) No perforated intervals are in the well.
  - B. (5) Only zones producing, now or in the past, in the area of review and above the Devonian (16,903') are the Delaware (4,182') and Bone Spring (8,121'). No oil or gas zone is below the Devonian in 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 4 existing wells (1 oil + 3 P&A) and within a 1-mile radius. Deepest well within a mile is 10,661' TVD. Closest approved SWD; Devonian well (30-025-45469) is 2.50 miles away in M-8-26s-32e. Closest active SWD; Devonian well (30-025-43379) is 3.35 miles northeast in E-6-26s-32e. (Longwood has applied for a SWD; Devonian well (Randy Allen Fed SWD 1) 1.83 miles northeast in O-12-26s-31e. Approvals are pending). Closest Devonian oil or gas well is  $>2.43$  miles away.

All leases within a one-mile radius are BLM or NMSLO. Exhibit D shows and tabulates all the leases within a mile. Exhibit E shows all lessors within a two-mile radius. Two-mile radius leases are BLM or NMSLO.

VI. No Devonian penetrator is within a mile. Deepest existing or proposed well within a mile is 10,661'. That well bottomed in the Bone Spring.

- VII. 1. Average injection rate will be  $\approx$ 40,000 bwpd.  
 Maximum injection rate will be 45,000 bwpd.
2. System will be open and closed. Water will both be trucked and piped.
3. Average injection pressure will be  $\approx$ 2,500 psi  
 Maximum injection pressure will be 3,382 psi (= 0.2 psi/foot x 16,913' (top of open hole)).
4. Disposal water will be produced water, mainly from Bone Spring, Delaware, and Wolfcamp wells. There are 164 approved Bone Spring wells, 77 approved Delaware producers, and 95 approved Wolfcamp wells in T. 26 S., R. 31 and 32 E. The well will take other Permian Basin waters. A summary of produced water analyses from T. 26 S., R. 31 E. is in Exhibit F. Devonian produced water analyses (in mg/L) from wells in T. 23 S., R. 37 E. are in the table below. Compatibility problems are not expected. At least 11,973,863 barrels of water have been disposed in a Devonian; SWD (30-025-43379) that is 3.35 miles northeast.

API	Section	UL	TDS	chloride	bicarbonate	sulfate
3002510717	14	K	118979	71280	462	2593
3002510945	34	A	112959	67390	288	2765
3002510947	34	H	35639			
3002510950	34	A	236252	147000	129	781

5. No Devonian production is within >2.43 miles.

VIII. The Devonian (estimated 1,000' thick) is comprised of limestone and dolomite. Closest possible underground source of drinking water above the proposed disposal interval is the Quaternary at the surface. There has been some interest in developing the brackish Dewey Lake which is below the Quaternary and above the Rustler.

According to State Engineer records (Exhibit G), no water well is within 2 miles. However, a windmill not in the records was found 1.92 miles northeast and sampled on March 6, 2019. No underground source of drinking water is below the proposed disposal interval.

Formation tops are:

Quaternary = 0'  
Rustler anhydrite = 1460'  
Salado = 1926'  
Castile = 2347'  
Lamar = 4153'  
Bell Canyon = 4182'  
Cherry Canyon = 5128'  
Brushy Canyon = 6393'  
Bone Spring = 8121'  
Wolfcamp = 11376'  
Strawn = 13931'  
Atoka = 14052'  
Morrow = 15000'  
Barnett = 16259'  
Mississippian limestone = 16450'  
Woodford shale = 16776'  
Devonian carbonate = 16903'  
*disposal interval = 16913' - 17893'*  
TD = 17883'  
(Montoya = 17903')

No water well is within a 2-mile radius according to State Engineer records (Exhibit G). A windmill not in the records was found 1.92 miles northeast and sampled on March 6, 2019. There will be >2.9 miles of vertical separation and shale, salt, and anhydrite intervals between the bottom of the only likely underground water source (Dewey Lake) and the top of the Devonian.

IX. The well will be stimulated with acid.

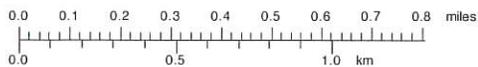
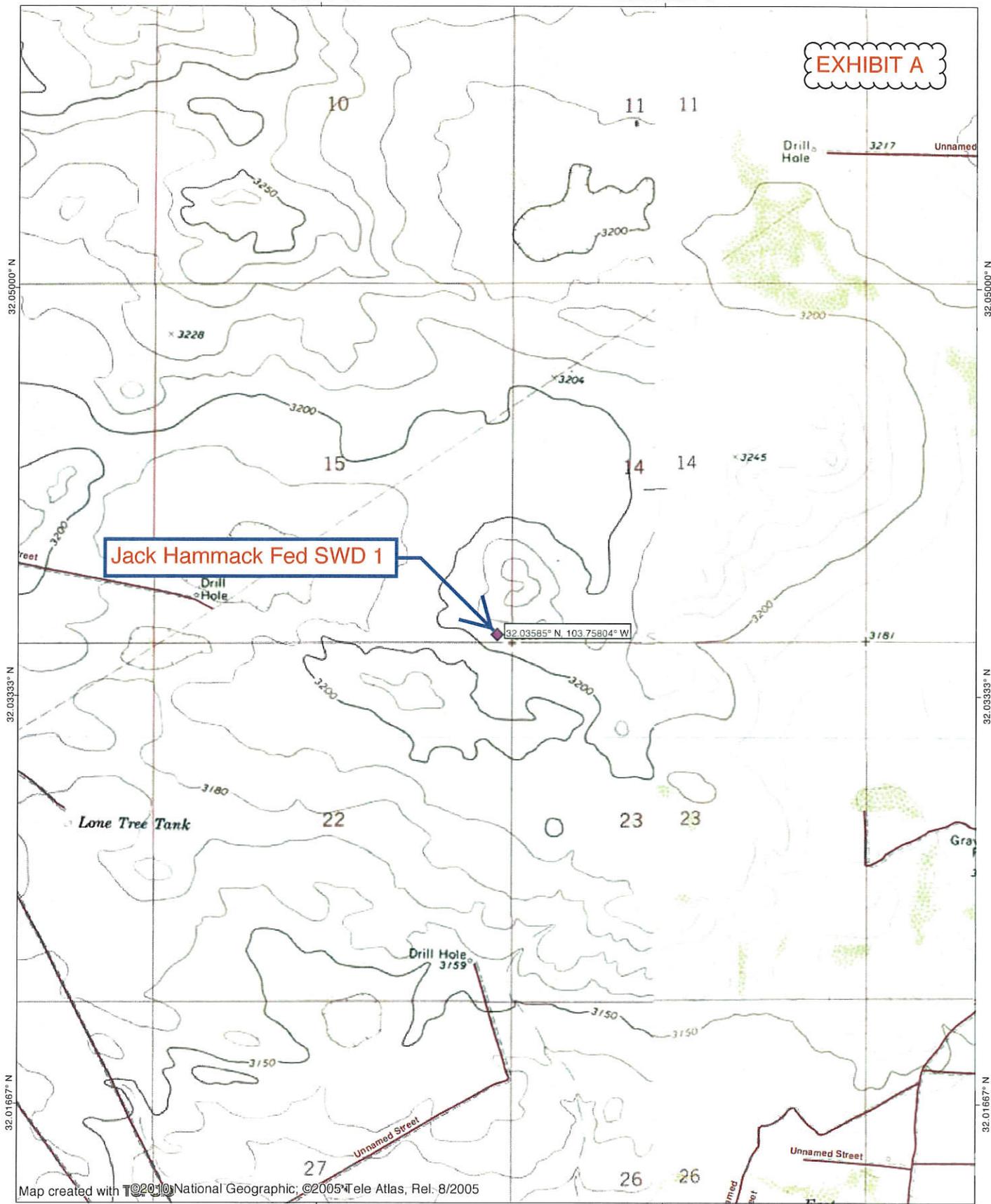
X. GR log will be run from the third intermediate to TD.

XI. One water well was found within 1.92 miles during a March 6, 2019 field inspection.

XII. Longwood Water Management Company, LLC (Exhibit H) is not aware of any geologic or engineering data that may indicate the Devonian is in hydrologic connection with any underground sources of water. There are 148 active Devonian SWD wells and 9 active Devonian water injection wells in New Mexico. Closest Quaternary fault is  $\approx$ 66 miles west-southwest (Exhibit H).

XIII. A legal ad (see Exhibit I) was published on February 27, 2019. Notice (this application) has been sent (Exhibit J) to the surface owner (BLM) and all operators, lessees, and unleased mineral interest owners within a mile who are required to receive notice.

EXHIBIT A



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

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

EXHIBIT A

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-</b>		<sup>2</sup> Pool Code <b>96101</b>		<sup>3</sup> Pool Name <b>SWD; Devonian</b>	
<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>JACK HAMMACK FED SWD</b>			<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID No. <b>328484</b>		<sup>8</sup> Operator Name <b>LONGWOOD WATER MANAGEMENT COMPANY, LLC</b>			<sup>9</sup> Elevation <b>3208'</b>

<sup>10</sup>Surface Location

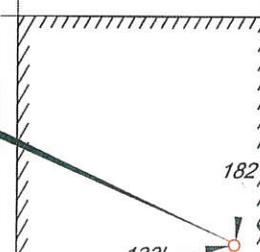
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	15	26-S	31-E	-	133'	SOUTH	182'	EAST	EDDY

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

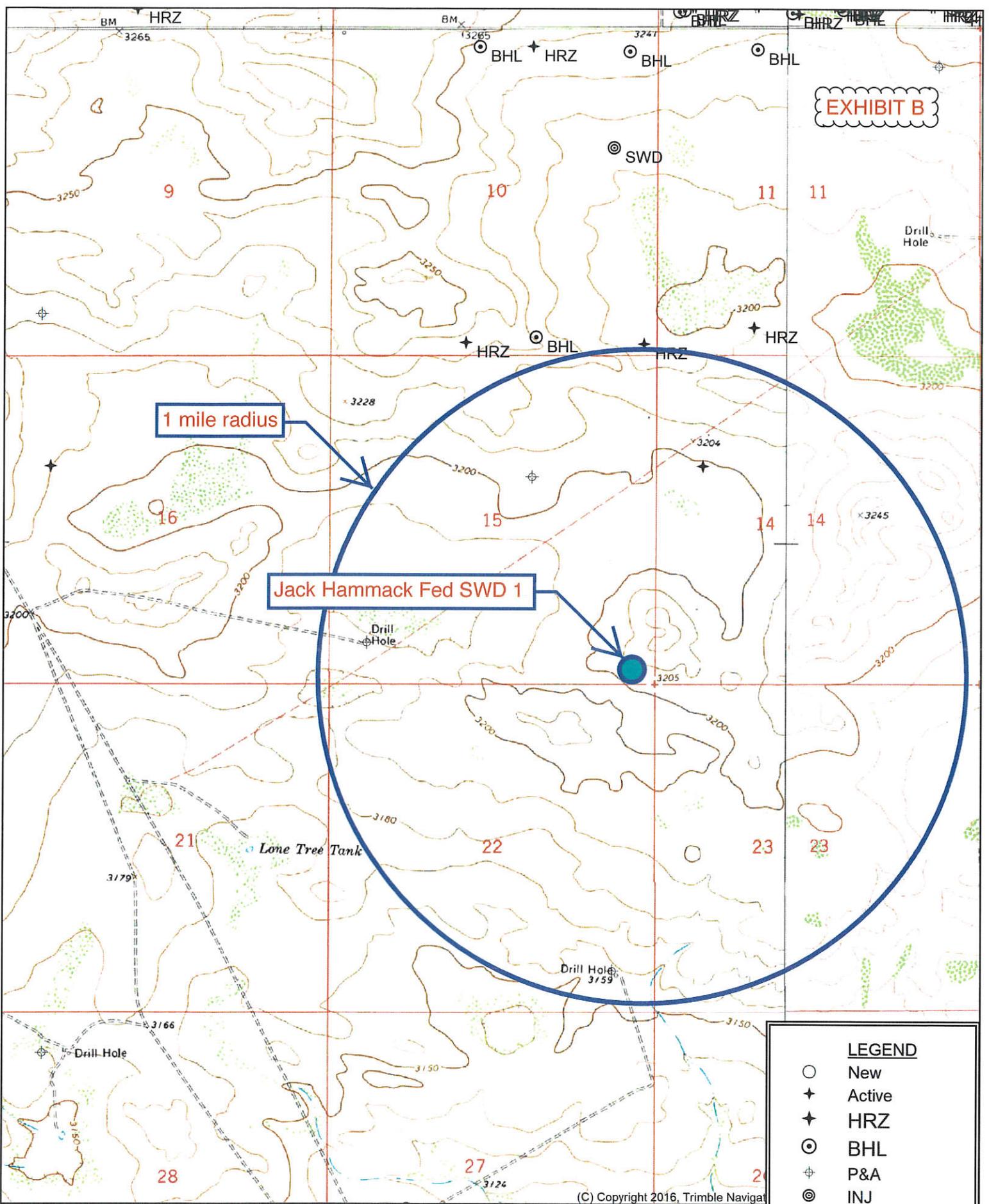
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
-	-	-	-	-	-	-	-	-	-

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.

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

<div data-bbox="568 1638 779 1974" data-label="Text"> <p>SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=678415 Y=377199 LAT.: N 32.0357264 LONG.: W 103.7575726 NAD 1983 X=719602 Y=377256 LAT.: N 32.0358514 LONG.: W 103.7580459</p> </div> 	<div data-bbox="1104 1029 1510 1081" data-label="Section-Header"> <p><sup>17</sup>OPERATOR CERTIFICATION</p> </div> <div data-bbox="1071 1081 1510 1228" data-label="Text"> <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> </div> <div data-bbox="1071 1228 1510 1354" data-label="Text"> <p><i>Brian Wood</i> <b>5-4-19</b> Signature Date</p> </div> <div data-bbox="1071 1354 1510 1438" data-label="Text"> <p><b>Brian Wood</b> Printed Name</p> </div> <div data-bbox="1071 1438 1510 1543" data-label="Text"> <p><b>brian@permitswest.com</b> E-mail Address</p> </div> <div data-bbox="1071 1543 1510 1596" data-label="Section-Header"> <p><sup>18</sup>SURVEYOR CERTIFICATION</p> </div> <div data-bbox="1071 1596 1510 1701" data-label="Text"> <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 to the best of my belief.</p> </div> <div data-bbox="1071 1701 1510 1806" data-label="Text"> <p><b>01/22/2019</b> Date of Survey <i>M. Brown</i> Signature and Seal of Professional Surveyor</p> </div> <div data-bbox="1071 1806 1510 1995" data-label="Text">  </div> <div data-bbox="1071 1995 1510 2037" data-label="Text"> <p>Certificate Number</p> </div>
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**EXHIBIT B**



1 mile radius

Jack Hammack Fed SWD 1

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

Quad: PHANTOM BANKS  
Scale: 1 inch = 2,000 ft.

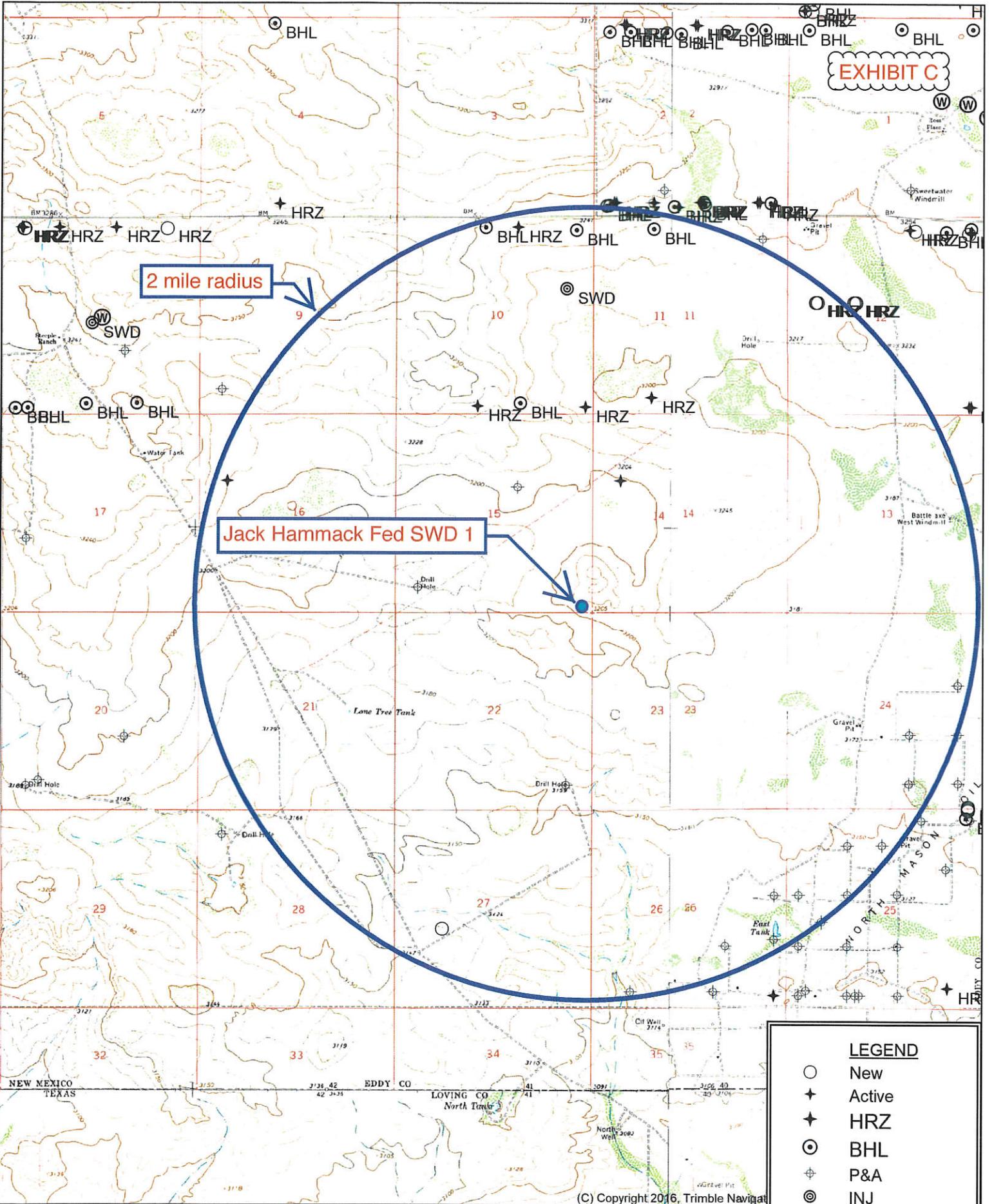


(C) Copyright 2016, Trimble Navigat

SORTED BY DISTANCE FROM JACK HAMMACK FED SWD 1

API	OPERATOR	WELL	TYPE	UNIT-SECTION-T26S-R31E	TVD	ZONE AT TD	FEET FROM JACK HAMMACK SWD 1
30-015-41796	ConocoPhillips	Ramblin Rose 14 Fed #001	O	E-14	10661	Bone Spring	3545
30-015-29435	Lime Rock	Opera AQG Federal #001	P&A	G-15	10500	Bone Spring	3698
30-015-05862	George L. Buckles Co.	Federal 1-15	P&A	M-15	4155	Delaware	4541
30-015-05863	Curtis Hanksman	Bauerdorf- Federal 1	P&A	P-22	4041	Delaware	4823
30-015-40994	EOG	<i>Snapping 10 Federal 005H</i>	<i>O</i>	<i>P-10</i>	<i>10093</i>	<i>Bone Spring</i>	<i>5322</i>

EXHIBIT C



2 mile radius

Jack Hammack Fed SWD 1

LEGEND	
○	New
⊕	Active
⊛	HRZ
⊙	BHL
⊕	P&A
⊙	INJ
⊙	SWD
⊙	Brine
⊙	Water

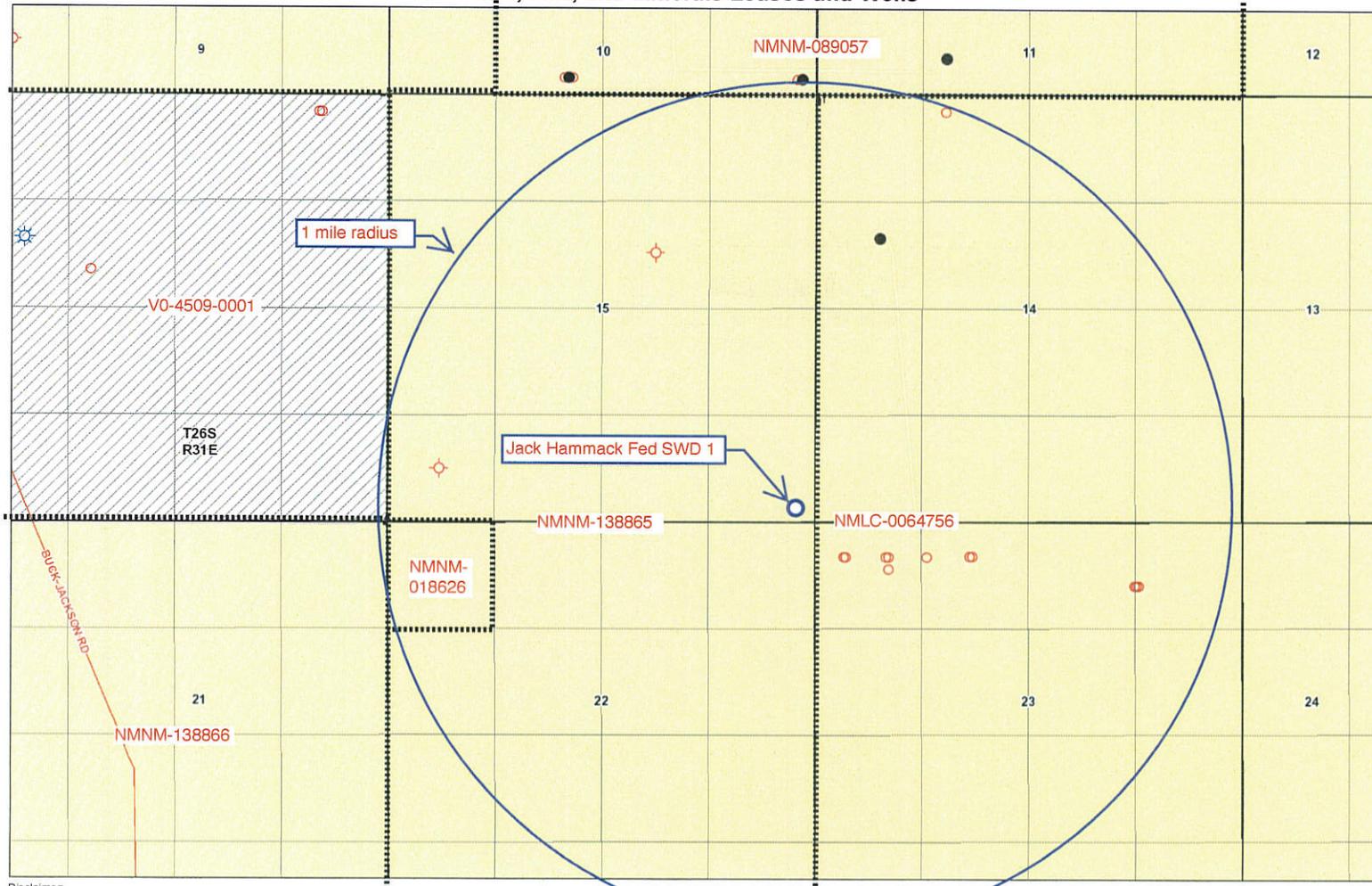


Quad: JAL  
 Scale: 1 inch = 3,333 ft.

(C) Copyright 2016, Trimble Navigat



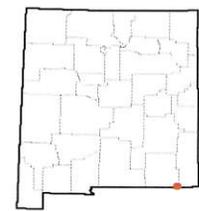
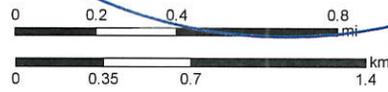
### Oil, Gas, and Minerals Leases and Wells



- Legend**
- Townships
  - Sections
  - Subdivisions
  - ☀ Carbon Dioxide
  - ☀ Gas
  - ⊕ Injection
  - Oil
  - △ Salt Water Disposal
  - 💧 Water Storage
  - ⊗ Miscellaneous
  - ⊕ Plugged / Dry / Abandoned
  - Cancelled / Not Drilled
  - Detailed Roads
  - ▭ Unit Agreement Boundaries
  - ▨ Oil and Gas Leases
  - All Minerals
  - Coal Only
  - Oil and Gas Only
  - Oil, Gas and Coal Only
  - ▨ Other Minerals

**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.



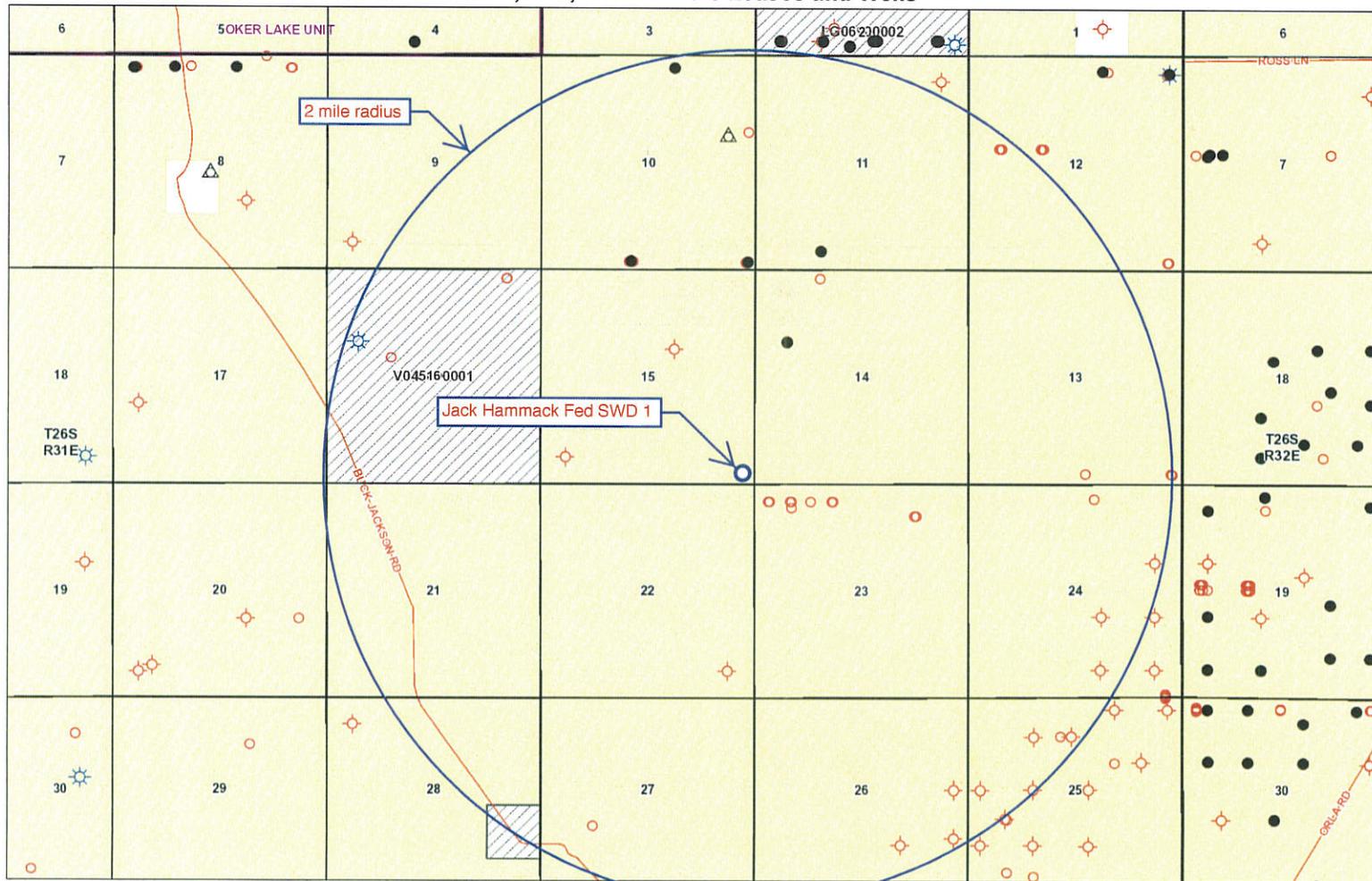
JACK HAMMACK FED SWD 1 AREA OF REVIEW LEASES

Aliquot Parts in Area of Review (T. 26 S., R. 31 E.)	Lessor	Lease	Lessee(s) of Record	Operators (all shallower than Devonian)
S2SE4 Sec. 10	BLM	NMNM-089057	Devon	Devon
SWSW Sec. 11	BLM	NMNM-089057	Devon	none
W2, W2E2, SENE, & E2SE4 Sec. 14	BLM	NMLC-0064756	Penroc	ConocoPhillips
E2, E2W2, SWNW, W2SW4 Sec. 15	BLM	NMNM-138865	Federal Abstract	none
E2SE4 Sec. 16	NMSLO	V0-4509-0001	EOG	none
NENE Sec. 21	BLM	NMNM-138866	Federal Abstract	none
NWNW Sec. 22	BLM	NMNM-018626	Occidental Permian	none
SWNW, NWSW, E2W2, E2 Sec. 22	BLM	NMNM-138865	Federal Abstract	none
N2, N2S4, SWSE, SW4 Sec. 23	BLM	NMLC-0064756	Penroc	none



### Oil, Gas, and Minerals Leases and Wells

EXHIBIT E



- Legend**
- Townships
  - Sections
  - ☀ Carbon Dioxide
  - ★ Gas
  - ⚡ Injection
  - Oil
  - △ Salt Water Disposal
  - 💧 Water Storage
  - ⊕ Miscellaneous
  - ◇ Plugged / Dry / Abandoned
  - Cancelled / Not Drilled
  - Detailed Roads
  - ▭ Unit Agreement Boundaries
  - ▨ Oil and Gas Leases
  - All Minerals
  - Coal Only
  - Oil and Gas Only
  - Oil, Gas and Coal Only
  - ▩ Other Minerals

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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.

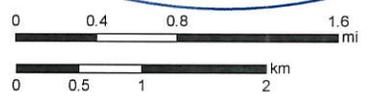
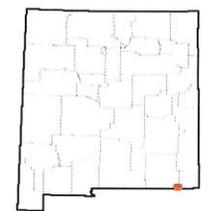


EXHIBIT E

Map Created: 5/5/2019

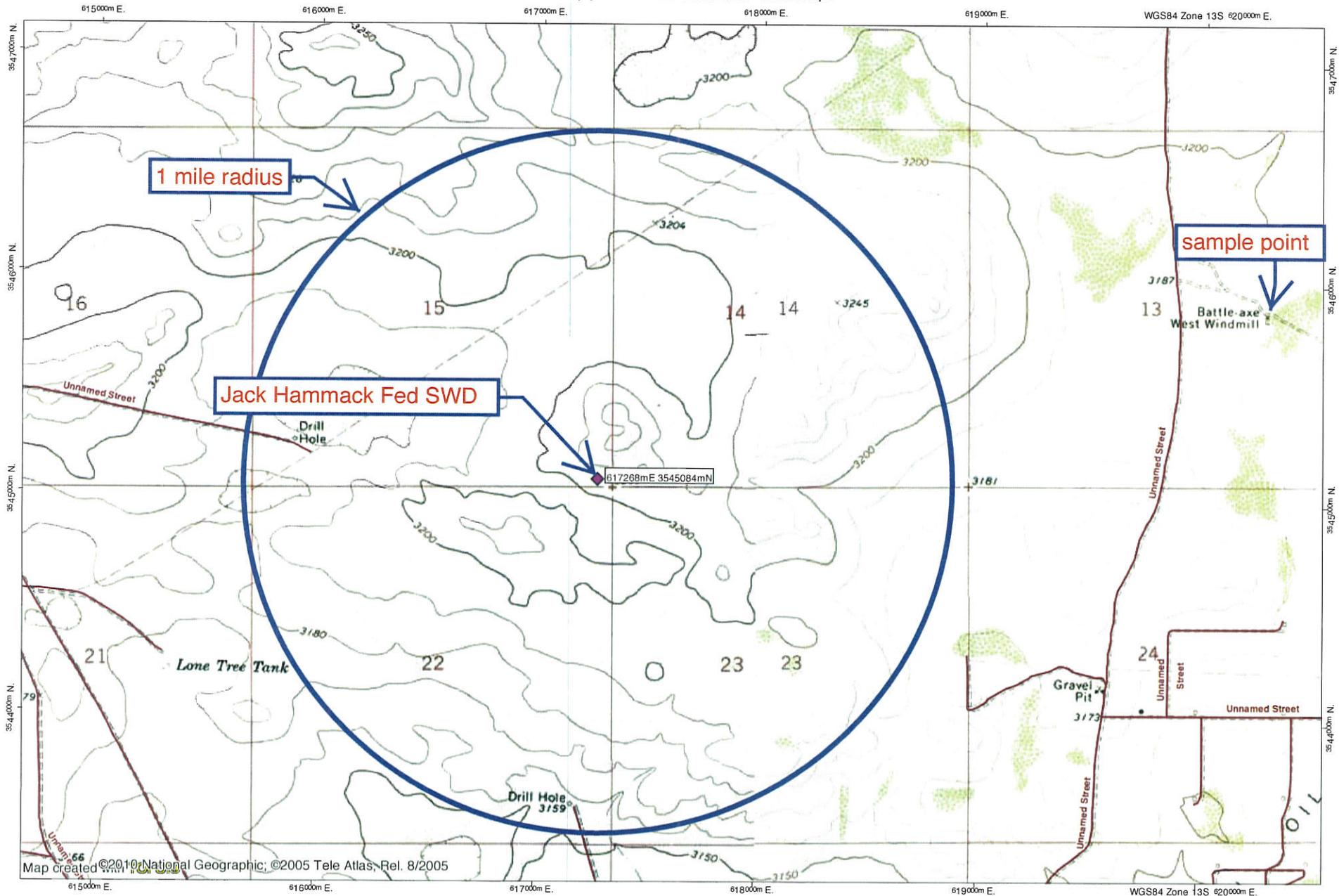


PRODUCED WATER SAMPLES FROM T. 26 S., R. 31 E. (in mg/l)

API	Section	UL	Formation	TDS	Sodium	Calcium	Iron	Magnesium	Chloride	Sulfate
3001539036	2	M	AVALON UPPER	223019	76002	10438	210	1922	131072	632
3001539104	2	N	AVALON UPPER	162560	57137	3886	42	776	97161	756
3001539162	2	O	AVALON UPPER	179789	71576	617	22	110	101374	0
3001539162	2	O	AVALON UPPER	179938	71576	617	22	110	101374	844
3001537899	10	B	AVALON UPPER	199639	68948	7560	111	1523	118195	0
3001537899	10	B	AVALON UPPER	209352	70090	7327	203	1557	127230	600
3001538193	11	N	AVALON UPPER	225190	77011	8744	636	1649	134075	0
3001538193	11	N	AVALON UPPER	196577	68797	5059	12	1066	118943	872
3001538193	11	N	AVALON UPPER	203079	72261	4407	112	904	122172	658
3001539866	10	N	BONE SPRING 2ND SAND	152439	48496	6731	29	801	94055	0
3001540994	10	P	BONE SPRING 2ND SAND	138162	44459	6281	30	781	84470	0
3001540994	10	P	BONE SPRING 2ND SAND	138376	44459	6281	30	781	84470	618
3001542113	2	N	BONE SPRING 3RD SAND	94966	31353	3679	32	484	57490	0
3001542113	2	N	BONE SPRING 3RD SAND	94518	30032	3403	20	439	58782	355
3001542113	2	N	BONE SPRING 3RD SAND	94864	30225	3424	15	444	59015	365

PRODUCED WATER SAMPLES FROM T. 26 S., R. 31 E. (in mg/l)

API	Section	UL	Formation	TDS	Sodium	Calcium	Iron	Magnesium	Chloride	Sulfate
3001542113	2	N	BONE SPRING 3RD SAND	91289	28721	3441	16	437	56957	328
3001505886	26	O	DELAWARE	212112					132100	425
3001542688	2	P	WOLFCAMP	81366	26319	2687	26	327	50281	400



Map created with TOPO! ©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005

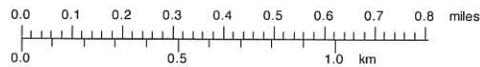


EXHIBIT G

TN+MN  
6.5°  
05/05/19



New Mexico Office of the State Engineer **EXHIBIT G**  
**Water Column/Average Depth to Water**

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

No records found.

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 617268

**Northing (Y):** 3545084

**Radius:** 3220

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.

5/5/19 11:14 AM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903306

Date Reported: 3/21/2019

EXHIBIT G

**CLIENT:** Permits West

**Client Sample ID:** Sec 13 Tank

**Project:** Matador Allen and Hammock

**Collection Date:** 3/6/2019 11:13:00 AM

**Lab ID:** 1903306-001

**Matrix:** AQUEOUS

**Received Date:** 3/7/2019 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 1664B</b>							Analyst: <b>plr</b>
N-Hexane Extractable Material	ND	11.2		mg/L	1	3/11/2019 9:16:00 AM	43604
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	16	0.50		mg/L	1	3/7/2019 4:04:04 PM	R58208
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	383	20.0		mg/L	1	3/13/2019 6:02:00 PM	43630

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

  
 WO#: 1903306  
 21-Mar-19

**Client:** Permits West  
**Project:** Matador Allen and Hammock

Sample ID: <b>MB-43604</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 1664B</b>
Client ID: <b>PBW</b>	Batch ID: <b>43604</b>	RunNo: <b>58295</b>
Prep Date: <b>3/11/2019</b>	Analysis Date: <b>3/11/2019</b>	SeqNo: <b>1955297</b> Units: <b>mg/L</b>
Analyte	Result	PQL    SPK value    SPK Ref Val    %REC    LowLimit    HighLimit    %RPD    RPDLimit    Qual
N-Hexane Extractable Material	ND	10.0

Sample ID: <b>LCS-43604</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 1664B</b>
Client ID: <b>LCSW</b>	Batch ID: <b>43604</b>	RunNo: <b>58295</b>
Prep Date: <b>3/11/2019</b>	Analysis Date: <b>3/11/2019</b>	SeqNo: <b>1955298</b> Units: <b>mg/L</b>
Analyte	Result	PQL    SPK value    SPK Ref Val    %REC    LowLimit    HighLimit    %RPD    RPDLimit    Qual
N-Hexane Extractable Material	32.2	10.0    40.00    0    80.5    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.

EXHIBIT G

WO#: 1903306

21-Mar-19

**Client:** Permits West  
**Project:** Matador Allen and Hammock

Sample ID: <b>MB</b>	SampType: <b>mbk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R58208</b>	RunNo: <b>58208</b>								
Prep Date:	Analysis Date: <b>3/7/2019</b>	SeqNo: <b>1952228</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R58208</b>	RunNo: <b>58208</b>								
Prep Date:	Analysis Date: <b>3/7/2019</b>	SeqNo: <b>1952229</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.8	90	110			

**Qualifiers:**

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

**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

**EXHIBIT G**

WO#: 1903306

21-Mar-19

**Client:** Permits West  
**Project:** Matador Allen and Hammock

Sample ID: <b>MB-43630</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>43630</b>	RunNo: <b>58346</b>								
Prep Date: <b>3/12/2019</b>	Analysis Date: <b>3/13/2019</b>	SeqNo: <b>1957077</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-43630</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>43630</b>	RunNo: <b>58346</b>								
Prep Date: <b>3/12/2019</b>	Analysis Date: <b>3/13/2019</b>	SeqNo: <b>1957078</b>	Units: <b>mg/L</b>							
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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Longwood Water Management Company, LLC

One Lincoln Centre • 5400 LBJ Freeway • Suite 1500 • Dallas, Texas 75240  
Voice 972.371.5200 • Fax 972.371.5201  
jharrington@matadorresources.com

---

**Jake Harrington**  
Senior Geologist

April 24, 2019

NM Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

**Re: Geology Statement**  
**Jack Hammack Fed SWD #1**  
**Section 15, T. 26S, R. 31E**  
**Eddy County, New Mexico**

To whom it may concern:

Available geologic and engineering data related to the proposed Well have been thoroughly reviewed, and no evidence for a hydrological connection between the proposed deep Devonian injection zone, located at approximately 16,903 ft., and any underground sources of drinking water has been found.

Sincerely,  
Longwood Water Management Company, LLC



Jake Harrington



Quaternary faults

Jack Hammack Fed SWD 1

66 miles

EXHIBIT H

20 mi

Google Earth

© 2018 Google  
Imagery Landsat / Copernicus

**AFFIDAVIT OF PUBLICATION**

Ad No.  
0001278513

PERMITS WEST, INC.  
37 VERANO LOOP

SANTA FE NM 87508

Longwood Water Management Company, LLC is applying to drill the Jack Hammack Fed SWD 1 as a saltwater disposal well. The well is staked at 133' FSL & 182' FEL Sec. 15, T. 26 S., R. 31 E., Eddy County. This is 22 miles south-east of Malaga, NM and 17 miles northeast of Orla, TX. Disposal will be in the Devonian from 16,913' to 17,893'. Maximum injection pressure will be 3,382 psi. Maximum disposal rate will be 45,000 bwpd. 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.

Pub: February 27, 2019 #1278513

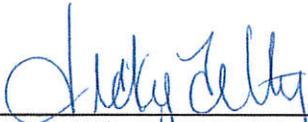
I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements 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:

02/27/19



Legal Clerk

Subscribed and sworn before me this  
27th of February 2019.

  
State of WI, County of Brown  
NOTARY PUBLIC

9-19-21

My Commission Expires



May 8, 2019

BLM  
620 E. Greene  
Carlsbad NM 88220

TYPICAL NOTICE

Longwood Water Management Company, LLC is applying (see attached application) to drill the Jack Hammack Fed 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: Jack Hammack Fed SWD 1 (BLM surface & lease) TD = 17,893'

Proposed Disposal Zone: Devonian (from 16,913' to 17,893')

Location: 133' FSL & 182' FEL Sec. 15, T. 26 S., R. 31 E., Eddy County, NM

Approximate Location: 22 miles southeast of Malaga, NM

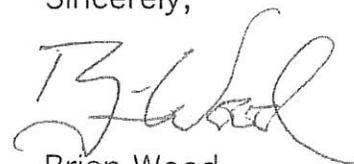
Applicant: Longwood Water Management Company, LLC (972) 371-5420

Applicant's Address: 5400 LBJ Freeway, Suite 1500, Dallas TX 75240

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. Phone is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

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**Aqua Suda LLC**  
 14605 S. Memorial Drive  
 Bixby OK74008  
 Matador Jack Hammer SWD 1

City, State, ZIP+4®

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 600 W Illinois Ave  
 Midland TX79701  
 Matador Jack Hammer SWD 1

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 333 Clay St #4200  
 Houston TX77002  
 Matador Jack Hammer SWD 1

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EXHIBIT J

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**BLM**  
 301 Dinosaur Trail  
 Santa Fe, NM87508  
 Matador Jack Hammer SWD 1

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Sent To  
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 600 N. Dairy Ashford  
 Houston TX77079  
 Matador Jack Hammer SWD 1

City, State, ZIP+4®

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Sent To  
**EOG Resources, Inc.**  
 1111 Bagby, Sky Lobby 2  
 Houston TX77002  
 Matador Jack Hammer SWD 1

City, State, ZIP+4®

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Sent To  
**Charlotte Williamson**  
 PO Box 50410  
 Austin TX78763  
 Matador Jack Hammer SWD 1

City, State, ZIP+4®

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 PO Box 2197  
 Office EC3-10-W285  
 Houston TX77255  
 Matador Jack Hammer SWD 1

City, State, ZIP+4®

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Postage \$

Total Postage and Fees \$

Sent To  
**EOG Resources, Inc.**  
 Attn: Stan Wagner  
 PO Box 2267  
 Midland TX79702  
 Matador Jack Hammer SWD 1

City, State, ZIP+4®

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Sent To  
**Claco Oil Co.**  
 13 Havenhill Road  
 Artesia NM88210  
 Matador Jack Hammer SWD 1

City, State, ZIP+4®

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Total Postage and Fees \$

Sent To  
**Devon Energy Production**  
 Company LP  
 333 W. Sheridan Ave  
 Oklahoma City OK73102  
 Matador Jack Hammer SWD 1

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