

Initial Application Part I

Received: 12/06/2019

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

WE4IO-191206-C-1080

Revised March 23, 2017

RECEIVED: 12/6/19	REVIEWER: BLL	TYPE: SWD	APP NO: pBL1934051302
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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

Applicant: Longwood Water Management Company, LLC **OGRID Number:** 328484
Well Name: Flowers SWD 3 **API:** 30-015-
Pool: SWD; Devonian **Pool Code:** 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

SWD-2342

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

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

12-4-19

Date

Print or Type Name

505-466-8120

Phone Number

brian@permitswest.com

e-mail Address


Signature

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance 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.
Flowers SWD 3
Devonian (96101)
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: BRIAN WOOD  TITLE: CONSULTANT
SIGNATURE: _____ DATE: NOV. 18, 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: _____

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

Side 2

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

Side 2

INJECTION WELL DATA SHEETTubing Size: 7" by 5.5" Lining Material: IPC or Fiberglass linedType of Packer: STAINLESS STEEL &/OR NICKELPacker Setting Depth: 16,827' - 16,927'

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 (3,982'), BONE SPRING (7,921'), WOLFCAMP (11,170'),
& PENN (13,500')UNDER: none

Side 1

INJECTION WELL DATA SHEET

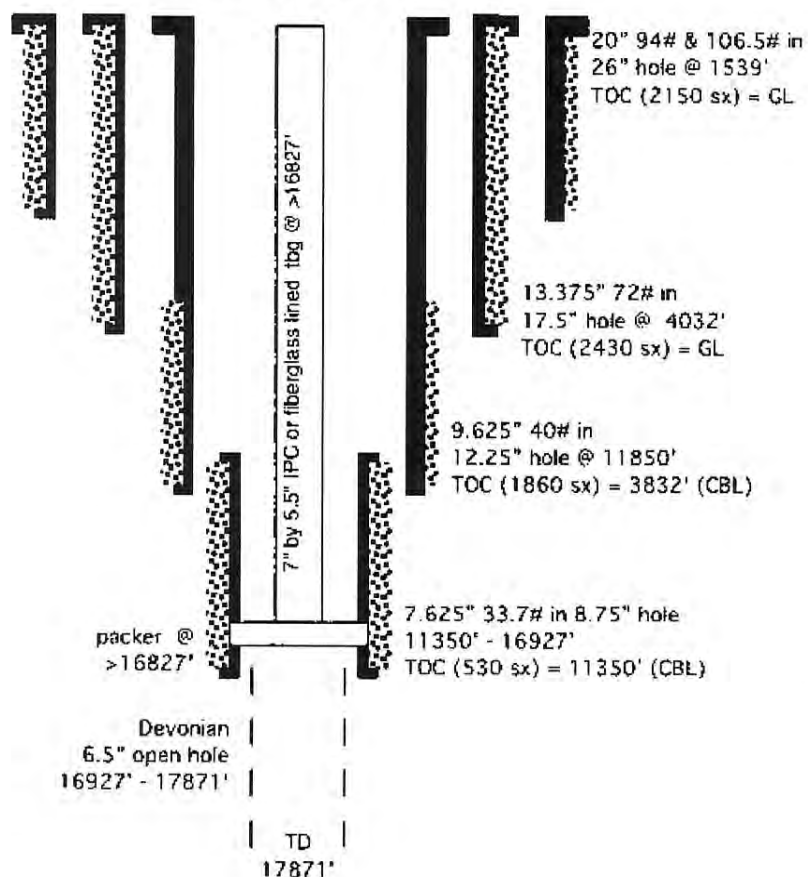
OPERATOR: LONGWOOD WATER MANAGEMENT COMPANY, LLC

WELL NAME & NUMBER: FLOWERS SWD 3

WELL LOCATION: 1153' FNL & 858' FWL D 21 26 S 31 E
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

(not to scale)

WELL CONSTRUCTION DATASurface Casing

Hole Size: 26" Casing Size: 20"
 Cemented with: 2150 sx. or ft³
 Top of Cement: SURFACE Method Determined: VISUAL

Intermediate Casing

Hole Size: 17.5" & 12.25" Casing Size: 13.375" & 9.625"
 Cemented with: 2430 & 1860 sx. or ft³
 Top of Cement: SURFACE & 3832' Method Determined: VISUAL & CBL

Production Casing

Hole Size: 8.75" Casing Size: 7.625" @ 11,350'
 Cemented with: 530 sx. or ft³
 Top of Cement: 11,350' Method Determined: CBL
 Total Depth: 16,927'

Injection Interval 6.5" OPEN HOLE

16,927' feet to 17,871'

(Perforated or Open Hole; indicate which)
 ■■■■■■■■

LONGWOOD WATER MANAGEMENT COMPANY, LLC
FLOWERS SWD 3
1153' FNL & 858' FWL
SEC. 21, T. 26 S., R. 31 E., EDDY COUNTY, NM

PAGE 1

I. Goal is to drill a 17,871' deep commercial saltwater disposal well on BLM. Disposal interval will be 16,927' – 17,871' 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-138866 Lease Size: 640 acres
Lease Area: all Sec. 21, T. 26 S., R 31 E.
Well name and number: Flowers SWD 3
Location: 1153' FNL & 858' FWL Section 21, T. 26 S., R. 31 E.

A. (2) Surface casing (20", 94 & 106.5#, J-55, BTC) will be set at 1,539' in a 26" hole and cemented to GL with 2,150 sacks (based on 50% OH excess).

First intermediate casing (13.375", 72#, N-80, BTC) will be set at 4,032' in a 17.5" hole and cemented to GL with 2,430 sacks (based on 50% OH excess).

Second intermediate casing (9.625", 40#, P-110 EC, BTC) will be set at 11,850' in a 12.25" hole and cemented to 3,832' with 1,860 sacks (based on 35% OH excess). An optional DV tool may be set at ≈4282'.

Third intermediate casing (7.625", 33.7#, P-110HP, USS Liberty FJM) will be set from 11,350' to 16,927' in an 8.75" hole and cemented to 11,350' (CBL) with 530 sacks (based on 10% OH excess).

A 6.5" open hole will be drilled from 16,927' to 17,871'.

LONGWOOD WATER MANAGEMENT COMPANY, LLC
FLOWERS SWD 3
1153' FNL & 858' FWL
SEC. 21, T. 26 S., R. 31 E., EDDY COUNTY, NM

PAGE 2

- A. (3) Tubing will be a tapered string. 7", 26#, P-110, BTC fiberglass lined tubing will be run from GL to 11,250'. 5.5", 20#, P-110IC, IPC or fiberglass lined will be run from 11,250' to 16,827'. Setting depth will be $\geq 16,827'$. (Disposal interval will be 16,927' to 17,871'.)
- A. (4) A stainless steel and/or nickel packer will be set at $\geq 16,827'$ (top of the open hole which will be at 16,927').
- B. (1) Disposal zone will be the Devonian (SWD; Devonian (96101) pool). Estimated fracture gradient is ≈ 0.62 to ≈ 0.68 psi per foot. Variation depends on whether limestone or dolomite.
- B. (2) Disposal interval will be open hole from 16,927' to 17,871'.
- 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 (16,917') are the Delaware (3,982'), Bone Spring (7,912'), Wolfcamp (11,170'), and Penn (13,500'). 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 3 existing wells (1 gas + 2 P&A) within a 1-mile radius along with the closest existing well outside of that radius (P&A). Deepest well within a mile is 13,500' TVD. Closest partially approved (APD) SWD; Devonian well (30-025-44569) is 3.75 miles north in H-32-25s-31e. Closest fully approved (AAPD & C-108) SWD; Devonian well (30-025-45223) is 4.01 miles northwest in P-2-26s-30e. (Longwood has applied for a SWD; Devonian well (Jack Hammack Fed SWD 1) 1.81 miles east-northeast in P-15-26s-31e. Approvals are pending). Closest Devonian oil or gas well is >2 miles away. Exhibit C shows all wells within 2-miles.

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, fee, or NMSLO.

LONGWOOD WATER MANAGEMENT COMPANY, LLC
FLOWERS SWD 3
1153' FNL & 858' FWL
SEC. 21, T. 26 S., R. 31 E., EDDY COUNTY, NM

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VI. No Devonian penetrator is within a mile. Deepest existing or proposed well within a mile is 13,500'. That well bottomed in the Penn.

- VII. 1. Average injection rate will be $\approx 50,000$ bwpd.
Maximum injection rate will be 60,000 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 3,385 psi ($= 0.2$ psi/foot $\times 16,927'$ (top of open hole)).
4. Disposal water will be produced water, mainly from Bone Spring, Delaware, and Wolfcamp wells. There are 36 approved Bone Spring wells, 10 approved Delaware wells, and 61 approved Wolfcamp wells in T. 26 S., R. 31 E. The well will take other Permian Basin waters. A summary of produced water analyses from T. 26 S., R. 31 E. is Exhibit F. Devonian produced water analyses (in mg/L) from wells in T. 25 S., R. 31 E. are in the table below. Compatibility problems are not expected. At least 15,798,856 barrels of water have been disposed in a Devonian; SWD (30-025-43379) that is 4-1/2 miles northeast.

API	section	unit	TDS (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
3001529252	1	L	128946.5	78100	317	481
3001529728	2	I	131449.7	79220	353	542
3001529728	2	I	85798.5	51300	59	389
3001529850	12	J	131449.7	79220	353	542
3001529252	1	L	135335.2	82003	248.9	477
3001529728	2	I	136044.4	82374	311.1	468
3001529728	2	I	136576.4	82850	122.4	499
3001529252	1	L	133147.6	80547	341.6	468

5. No Devonian production is within >2 miles.

**LONGWOOD WATER MANAGEMENT COMPANY, LLC
FLOWERS SWD 3
1153' FNL & 858' FWL
SEC. 21, T. 26 S., R. 31 E., EDDY COUNTY, NM**

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VIII. The Devonian (estimated 964' 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), 2 water wells are within 2 miles. Closest of the 2 wells is 1.84 miles northwest. Deepest of the 2 wells is 325'. Commingled flow from the wells was sampled on October 22, 2019. No underground source of drinking water is below the proposed disposal interval.

Formation tops are:

Quaternary = 0'
Rustler anhydrite = 1514'
Salado = 1895'
Castile = 2260'
Lamar = 3951'
Bell Canyon = 3982'
Cherry Canyon = 5094'
Brushy Canyon = 6324'
Bone Spring = 7912'
Wolfcamp = 11170'
Strawn = 13914'
Atoka = 14032'
Morrow = 14977'
Barnett = 16117'
Mississippian limestone = 16440'
Woodford shale = 16781'
Devonian carbonate = 16917'
disposal interval = 16927' – 17871'
TD = 17871'
(Montoya = 17881')

Two water wells are within a 2-mile radius according to State Engineer records (Exhibit G) and were sampled on October 22, 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 (Quaternary) 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.

**LONGWOOD WATER MANAGEMENT COMPANY, LLC
FLOWERS SWD 3
1153' FNL & 858' FWL
SEC. 21, T. 26 S., R. 31 E., EDDY COUNTY, NM**

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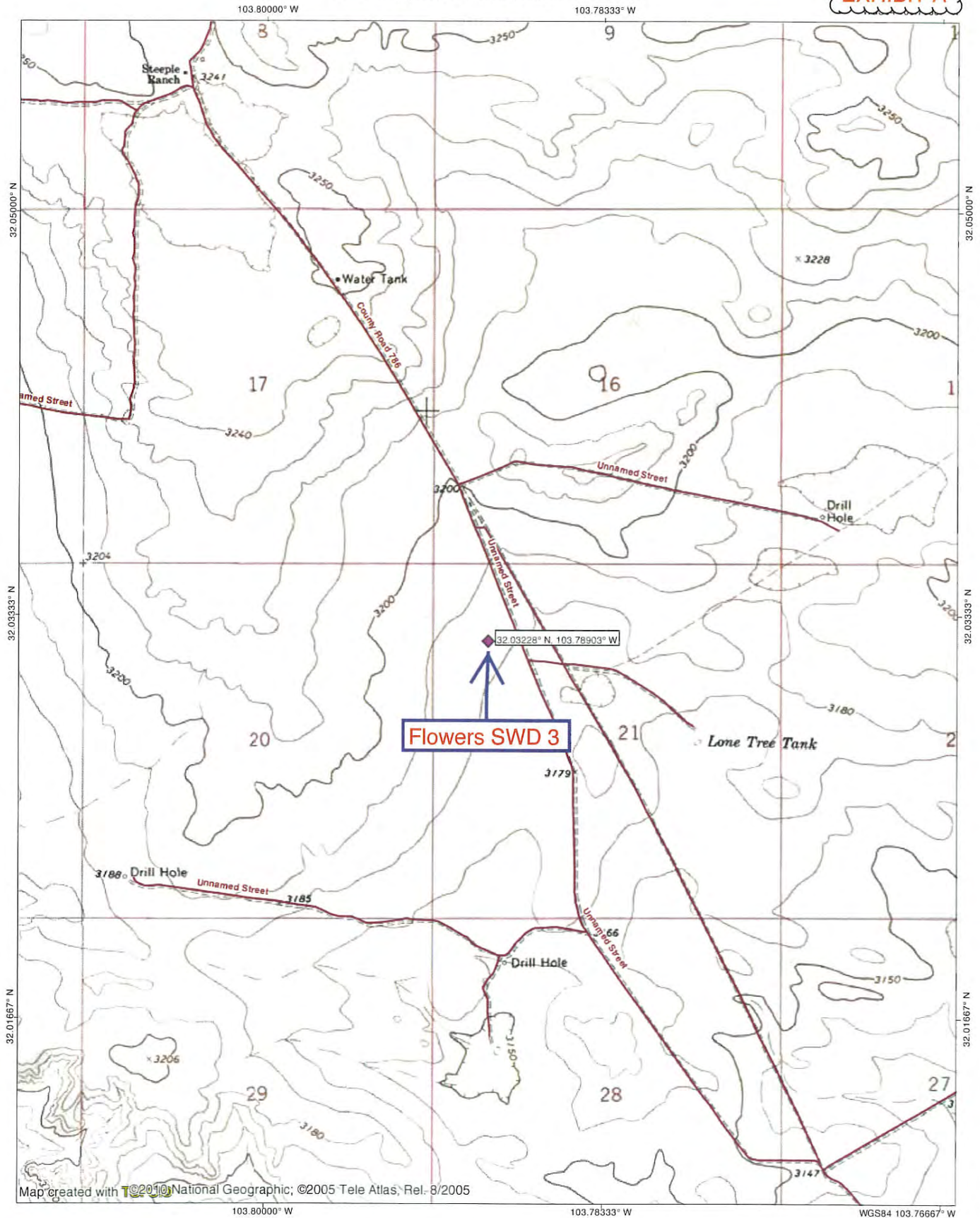
XI. Two water wells within 2 miles were found and sampled during an October 22, 2019 field inspection.

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 156 active Devonian SWD wells and 9 active Devonian water injection wells in New Mexico.

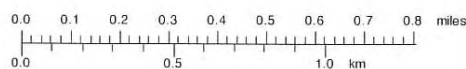
XIII. A legal ad (see Exhibit I) was published on October 31, 2019. Notice (this application) has been sent (Exhibit J) to the surface owner (BLM) and all operators, lessees, and unleased mineral interest owners within a mile who are required to receive notice.

TOPO! map printed on 10/12/19 from "Untitled.tpo"

EXHIBIT A



Map created with TGO2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005



TN MN
6.5°
10/12/19

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

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

EXHIBIT A

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code 96101		³ Pool Name SWD; Devonian	
⁴ Property Code		⁵ Property Name FLOWERS SWD			⁶ Well Number 3
⁷ OGRID No. 328484		⁸ Operator Name LONGWOOD WATER MANAGEMENT COMPANY, LLC			⁹ Elevation 3186'

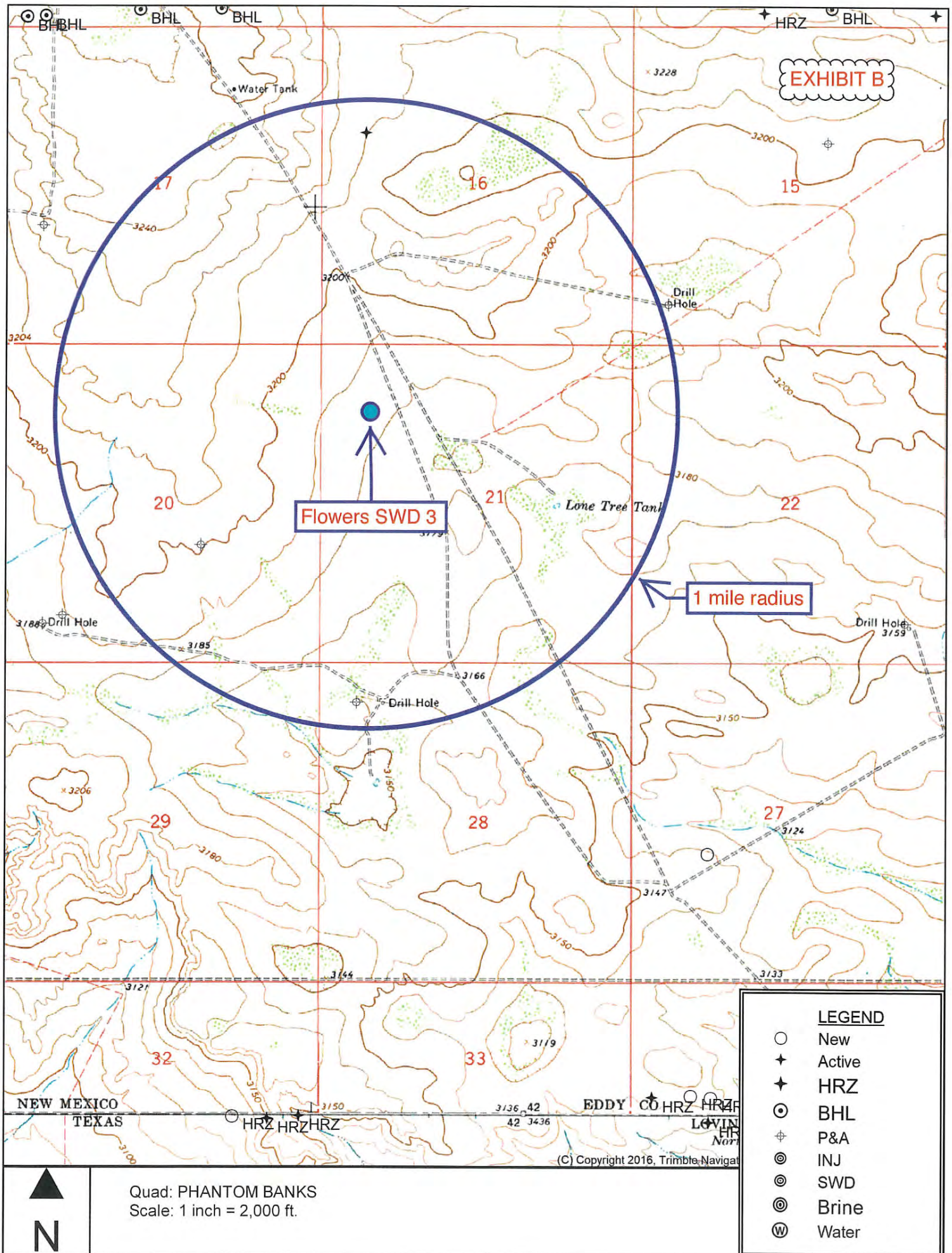
¹⁰ Surface Location									
UL or lot no. D	Section 21	Township 26-S	Range 31-E	Lot Idn -	Feet from the 1153'	North/South line NORTH	Feet from the 858'	East/West line WEST	County EDDY

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 interests have been consolidated or a non-standard unit has been approved by the division.

	<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 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><i>Brian Wood</i> 11-17-19 Signature Date</p> <p>Brian Wood Printed Name</p> <p>brian@permitswest.com E-mail Address</p> <p>505 466-8120</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 to the best of my belief.</p> <p>10/03/2019 Date of Survey</p> <p><i>[Signature]</i> Signature and Seal of Professional Surveyor</p> <p>25116 Certificate Number</p>



SORTED BY DISTANCE FROM FLOWERS SWD 3

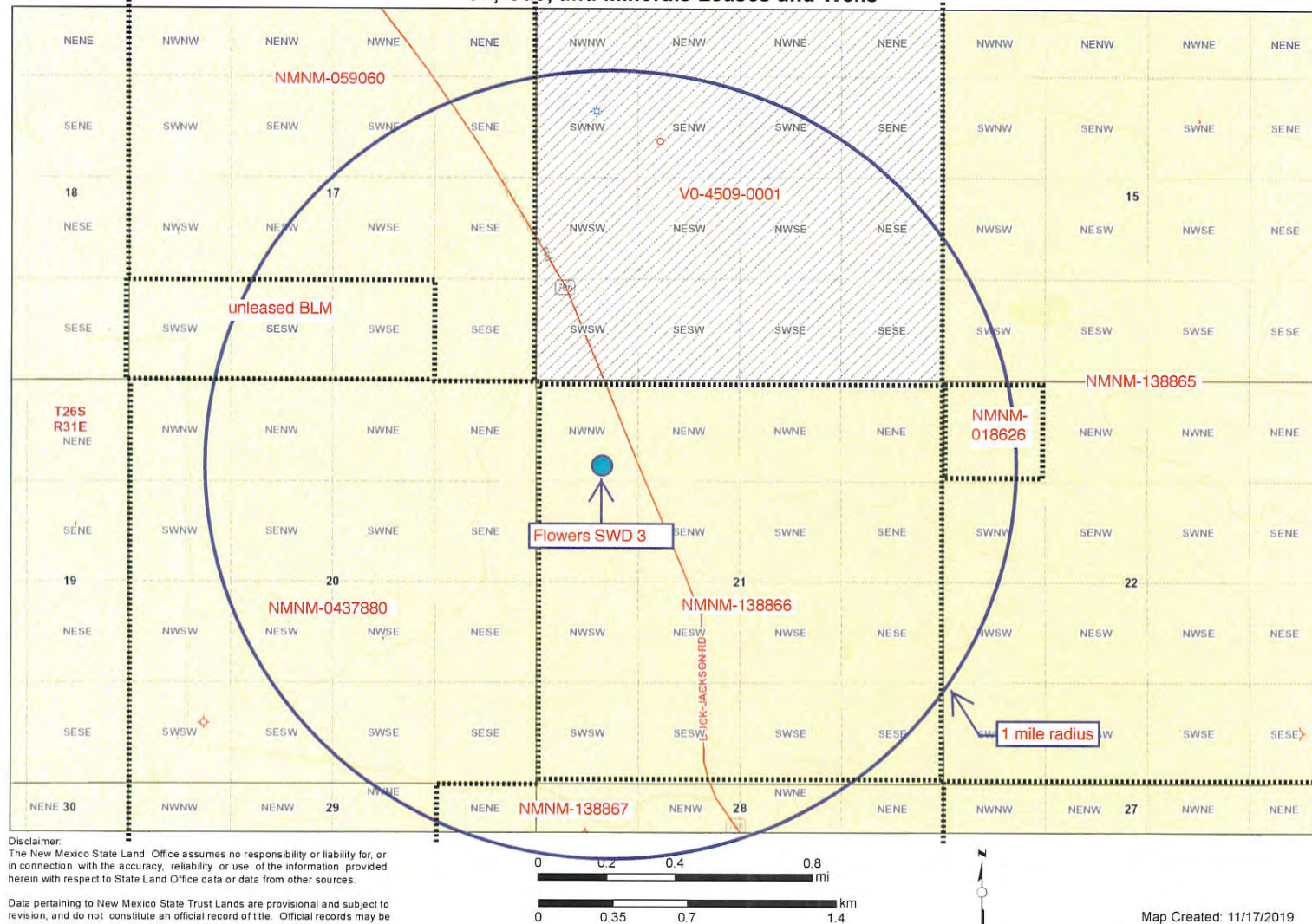
API	OPERATOR	WELL	STATUS	UNIT- SECTION- T26S-R31E	TVD	ZONE @ TD	FEET FROM FLOWERS SWD 3
3001531131	EOG	Phantom Draw Federal Unit 003	P&A	J-20	13500	Penn	3604
3001530485	EOG	Merphan 16 State 001	G	E-16	12643	Wolfcamp	4692
3001505888	Finley & Cherry	Buchly	P&A	D-28	4080	Delaware	4791
3001505862	Buckles Mosie	Federal 1-15	P&A	M-15	4155	Delaware	5413





New Mexico State Land Office

Oil, Gas, and Minerals Leases and Wells



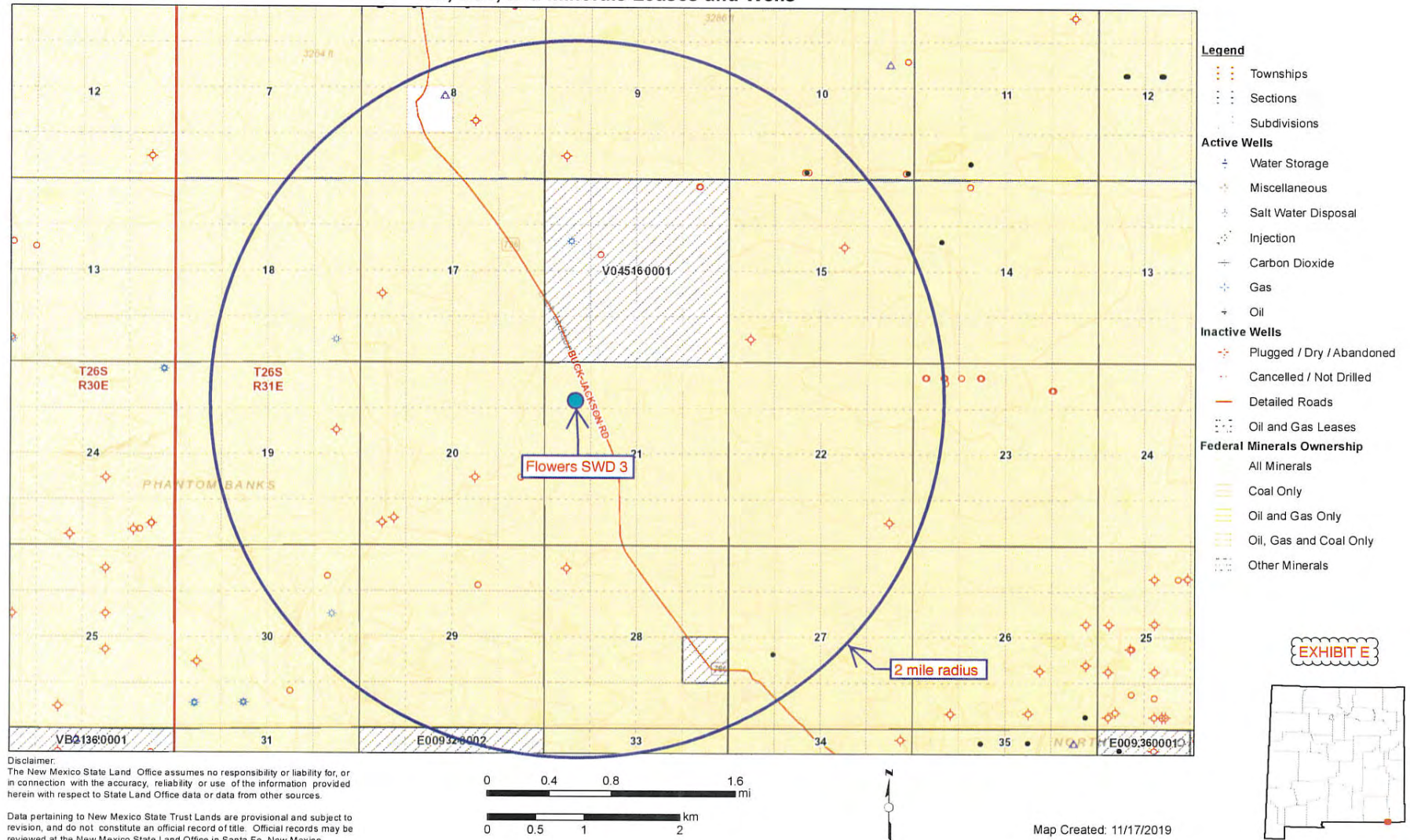
FLOWERS SWD 3 AREA OF REVIEW LEASES

Aliquot Parts in Area of Review (T. 26 S., R. 31 E.)	Lessor	Lease	Lessee(s) of Record	Operators (all shallower than Devonian)
W2SW4 Sec. 15	BLM	NMNM-138865	MRC Permian	N/A
W2, S2NE4, & SE4 Sec. 16	NMSLO	V0-4509-0001	EOG	EOG
E2E2, SENW, SWNE, NWSE, & NESW Sec. 17	BLM	NMNM-059060	EOG	N/A
S2SW4 & SWSE Sec. 17	BLM	unleased	N/A	N/A
N2, N2S2, SESW, & S2SE4 Sec. 20	BLM	NMNM-0437880	EOG	N/A
all Sec. 21	BLM	NMNM-138866	MRC Permian	N/A
NWNW Sec. 22	BLM	NMNM-018626	Occidental Permian	N/A
SWNW & W2SW4 Sec. 22	BLM	NMNM-138865	MRC Permian	N/A
N2N2 Sec. 28	BLM	NMNM-138867	MRC Permian	N/A
NENE Sec. 29	BLM	NMNM-138867	MRC Permian	N/A
NWNE Sec. 29	BLM	NMNM-0437880	EOG	N/A



New Mexico State Land Office

Oil, Gas, and Minerals Leases and Wells



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



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	Water Column
C 01777		C	ED				08	26S	31E	613245	3547409*	2965	325	300	25
C 02248		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	3008	300	292	8
C 02249		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	3008	300	292	8

Average Depth to Water: **294 feet**

Minimum Depth: **292 feet**

Maximum Depth: **300 feet**

Record Count: 3

UTM NAD83 Radius Search (in meters):

Easting (X): 614346

Northing (Y): 3544655

Radius: 3220

*UTM location was derived from PLSS - see Help

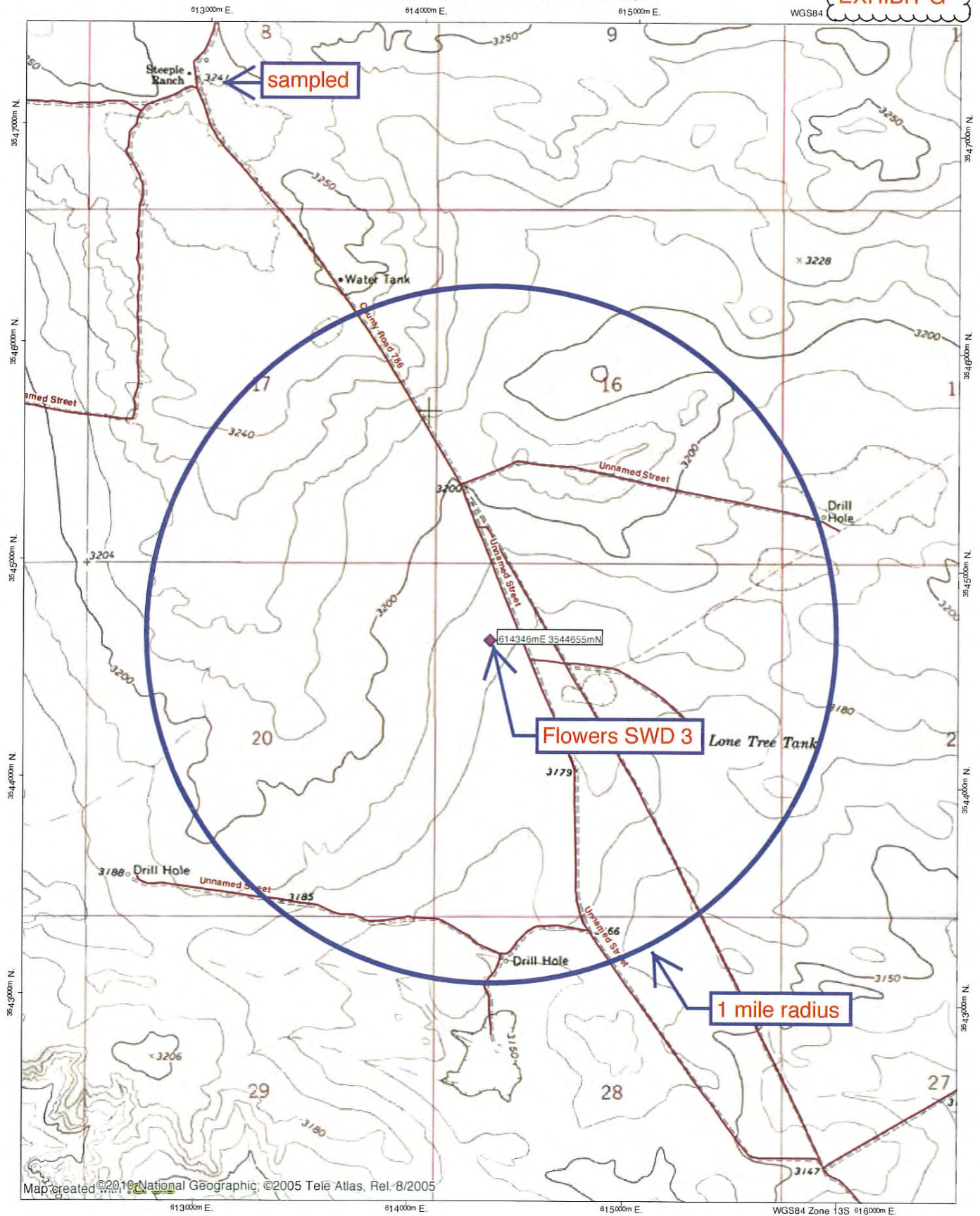
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/12/19 2:03 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

TOPO! map printed on 10/12/19 from "Untitled.tpo"

EXHIBIT G



Analytical R
Lab Order 1910C90

EXHIBIT G

Date Reported: 10/31/2019

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Permits West**Client Sample ID:** Trough WM 1 Flowers SWD 3**Project:** Longwood Flowers SWD 3**Collection Date:** 10/22/2019 11:50:00 AM**Lab ID:** 1910C90-001**Matrix:** AQUEOUS**Received Date:** 10/23/2019 3:28:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664B							Analyst: KMN
N-Hexane Extractable Material	ND	9.26		mg/L	1	10/30/2019 9:47:00 AM	48413
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	19	0.50		mg/L	1	10/23/2019 6:08:35 PM	R63920
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	340	20.0		mg/L	1	10/28/2019 5:39:00 PM	48386

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 Limit
	S	% Recovery outside of range due to dilution or matrix		

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

WO#: 1910C90

31-Oct-19

Client: Permits West**Project:** Longwood Flowers SWD 3

Sample ID: MB-48413	SampType: MBLK	TestCode: EPA Method 1664B								
Client ID: PBW	Batch ID: 48413	RunNo: 64068								
Prep Date: 10/28/2019	Analysis Date: 10/30/2019	SeqNo: 2192136	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-48413	SampType: LCS	TestCode: EPA Method 1664B								
Client ID: LCSW	Batch ID: 48413	RunNo: 64068								
Prep Date: 10/28/2019	Analysis Date: 10/30/2019	SeqNo: 2192137	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	39.2	10.0	40.00	0	98.0	78	114			

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 Limit

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

WO#: 1910C90

31-Oct-19

Client: Permits West**Project:** Longwood Flowers SWD 3

Sample ID: MB	SampType: mbk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R63920	RunNo: 63920								
Prep Date:	Analysis Date: 10/23/2019	SeqNo: 2185716 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R63920	RunNo: 63920								
Prep Date:	Analysis Date: 10/23/2019	SeqNo: 2185717 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.9	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 Limit

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

WO#: 1910C90

31-Oct-19

Client: Permits West**Project:** Longwood Flowers SWD 3

Sample ID: MB-48386	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 48386	RunNo: 64021								
Prep Date: 10/25/2019	Analysis Date: 10/28/2019	SeqNo: 2190105 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-48386	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 48386	RunNo: 64021								
Prep Date: 10/25/2019	Analysis Date: 10/28/2019	SeqNo: 2190106 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
 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 Limit



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

October 10, 2019

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

Re: Geology Statement
Flowers SWD #3
Section 21, 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 16,917 ft., and any underground sources of drinking water has been found.

Sincerely,
Longwood Water Management Company, LLC

A handwritten signature in black ink, appearing to read "Jake Harrington".

Jake Harrington

Carlsbad Current Argus.

PART OF THE USA TODAY NETWORK

EXHIBIT I

Affidavit of Publication

Ad # 0003874372

F. /
37 VERANO LOOP

SANTA FE, NM 87508

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:

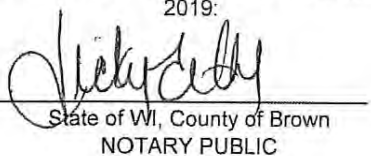
Longwood Water Management Company, LLC is applying to drill the Flowers SWD 3 as a saltwater disposal well. The well is staked at 1153' FNL & 858' FWL Sec 21, T. 26 S., R. 31 E., Eddy County, NM. This is 21 miles southeast of Loving, NM and 16 miles northeast of Orla, TX. Disposal will be in the Devonian from 16,927' to 17,871'. Maximum injection pressure will be 3,385 psi. Maximum disposal rate will be 60,000 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.

October 31, 2019

October 31, 2019

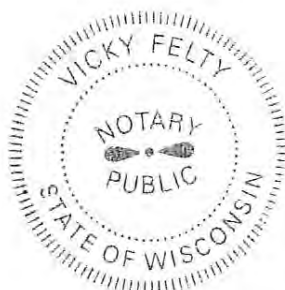

Legal Clerk

Subscribed and sworn before me this October 31,
2019:


State of WI, County of Brown
NOTARY PUBLIC

9-19-21
My commission expires

Ad # 0003874372
PO #: Longwood Water Management
of Affidavits : 1





November 23, 2019

BLM
620 E. Greene
Carlsbad NM 88220

Longwood Water Management Company, LLC is applying (see attached application) to drill the Flowers SWD 3 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: Flowers SWD 3 (BLM surface & lease) TD = 17,871'

Proposed Disposal Zone: Devonian (from 16,927' to 17,871')

Location: 1153' FNL & 858' FWL Sec. 21, T. 26 S., R. 31 E., Eddy County, NM

Approximate Location: 21 miles southeast of Loving, 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,

A handwritten signature in blue ink that appears to read "B. Wood".

Brian Wood

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Sent To: Bureau of Land Management
Street: 301 Old Main Trail
City, State, ZIP+4®: Santa Fe NM 87508
PS Form 3800, April 2013 PSN 7530-01-000-9047 See Reverse for Instructions

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Street: 550 W Texas
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Sent To: BLM
Street: 6205 Green St
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Street: PO Box 10458
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Sent To: Claco Oil Co
Street: 13 Haven Hill Rd
City, State, ZIP+4®: Artesia NM 88210
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Sent To: Chevron USA Inc
Street: 5301 Deleville
City, State, ZIP+4®: Midland TX 79706
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Sent To: Charlotte Williamson
Street: PO Box 50410
City, State, ZIP+4®: Austin TX 78763
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Sent To: Burlington Res Oil & Gas Co LP
Street: PO Box 51810
City, State, ZIP+4®: Midland TX 79710
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Sent To: E G L Exploration LP
Street: PO Box 10886
City, State, ZIP+4®: Midland TX 79702
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Sent To: Craig LTD
Street: PO Box 1551
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Sent To: Concho Oil & Gas LLC
Street: 600 W Illinois Ave
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Street: 600 W Illinois Ave
City, State, ZIP+4®: Midland TX 79701
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Sent To: EOG Resources Inc
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 City: Midland TX 79706
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Sent To: EOG Resources Inc
 Street: PO Box 4362
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Sent To: EOG Resources Inc
 Street: PO Box 2267
 City: Midland TX 79702
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Sent To: EOG Resources Inc
 Street: PO Box 2267
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Sent To: P Petroleum Co Inc
 Street: PO Box 4258
 City: Houston TX 77210
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Sent To: The H and J Drilling Company
 Street: PO Box 701620
 City: Tulsa OK 74170
 PS Form 3800, April 2013 PSN 7532-02-000-9047 See Reverse for Instructions

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Sent To: Frank McCabe
 Street: 900 W Texas Ave
 City: Midland TX 79701
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Sent To: EOG Resources Inc
 Street: 333 Clay St #4200
 City: Houston TX 77002
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Sent To: Lynx Petro Consultants Inc
 Street: PO Box 1708
 City: Hobbs NM 88241
 PS Form 3800, April 2013 PSN 7532-02-000-9047 See Reverse for Instructions

1016 3090 0001 0916 0454

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☐ Adult Signature Restricted Delivery \$
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Sent To: Kerry Petroleum Co
 Street: PO Box #1450
 City: Midland TX 79701
 PS Form 3800, April 2013 PSN 7532-02-000-9047 See Reverse for Instructions

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Sent To: P Petroleum CO Inc
 Street: PO Box 4258
 City: Houston TX 77210
 PS Form 3800, April 2013 PSN 7532-02-000-9047 See Reverse for Instructions

1016 3090 0001 0916 0430

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Sent To: C Williamson
 Street: 214 W Texas Ave STE 1250
 City: Midland TX 79701
 PS Form 3800, April 2013 PSN 7532-02-000-9047 See Reverse for Instructions

1016 3090 0001 0916 0428

EXHIBIT J

7018 3090 0001 0916 0492

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☐ Adult Signature Restricted Delivery \$
 Postage \$
 Total Postage and Fees \$

Sent To: NMSLO
Street: PO Box 1148
City, State: Santa Fe NM 87504
City, State: Matador Flwrs SWD-3
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0001 0916 0539

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☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$
 Postage \$
 Total Postage and Fees \$

Sent To: William A Chalfant
Street: 115 W Wall St #1820
City, State: Midland TX 79701
City, State: Matador Flwrs SWD-3
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0001 0916 0485

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☐ 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 Co
Street: 5400 LBJ Fwy STE 1500
City, State: Dallas TX 75240
City, State: Matador Flwrs SWD-3
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0001 0916 0515

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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$
 Postage \$
 Total Postage and Fees \$

Sent To: Santa Fe Energy Resources, Inc
Street: 950 W Texas St #1330
City, State: Midland TX 79701
City, State: Matador Flwrs SWD-3
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0001 0916 0478

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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: Marbob Energy Corp
Street: PO Box 227 Box No.
City, State: Artesia NM 88211
City, State: Matador Flwrs SWD-3
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0001 0916 0522

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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$
 Postage \$
 Total Postage and Fees \$

Sent To: Pru-Bache Ene Inc
Street: PO Box 3134 Box No.
City, State: Covington LA 70434
City, State: Matador Flwrs SWD-3
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0001 0916 0461

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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: Magnum Hunter Production Inc
Street: 20248 Cheyenne Ave STE 1000
City, State: Tulsa OK 74103
City, State: Matador Flwrs SWD-3
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0001 0916 0508

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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: Occidental Permian LP
Street: 5 E Greenway Plaza #110
City, State: Houston TX 77046
City, State: Matador Flwrs SWD-3
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0001 0916 0546

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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 \$1.45
 Total Postage and Fees \$4.95

Sent To: WPX Energy Permian LLC
Street: 3500 One Williams Center
City, State: Tulsa OK 74172
City, State: Matador Flwrs SWD-3
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

EXHIBIT J



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In-Transit

December 4, 2019
In Transit to Next Facility

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Tracking History



December 4, 2019

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Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

December 4, 2019, 11:44 am

Available for Pickup
GOLDSMITH, TX 79741

December 3, 2019, 7:41 pm

Arrived at USPS Regional Destination Facility
MIDLAND TX DISTRIBUTION CENTER

EXHIBIT J

Feedback

December 2, 2019, 8:58 pm
Departed USPS Regional Facility
OKLAHOMA CITY OK DISTRIBUTION CENTER

December 2, 2019, 1:43 pm
Arrived at USPS Regional Facility
OKLAHOMA CITY OK DISTRIBUTION CENTER

November 30, 2019, 10:26 am
Forwarded
MIDLAND, TX

November 29, 2019, 4:23 pm
Forwarded
MIDLAND, TX

November 29, 2019, 2:23 pm
Arrived at Unit
MIDLAND, TX 79705

November 29, 2019, 2:19 pm
Available for Pickup
MIDLAND, TX 79710

November 28, 2019, 6:10 am
Departed USPS Regional Facility
MIDLAND TX DISTRIBUTION CENTER

November 27, 2019, 8:05 pm
Arrived at USPS Regional Facility
MIDLAND TX DISTRIBUTION CENTER

November 25, 2019, 10:18 pm
Departed USPS Facility
ALBUQUERQUE, NM 87101

November 25, 2019, 10:02 pm
Arrived at USPS Origin Facility
ALBUQUERQUE, NM 87101

November 25, 2019, 4:18 pm
Departed Post Office
GLORIETA, NM 87535