

Permit Hearing - Item #8
McNeal

**APPLICATION FOR PERMIT
NON-EXEMPT WELLS
Classification 1**

A NON-EXEMPT WELL, CLASSIFICATION 1, is a well that satisfies the following conditions:

A water well used for **domestic purposes or for watering livestock or poultry** that is drilled, equipped or completed so that it is incapable of producing more than 25,000 gallons per day, and is located on a tract of land consisting of less than 10 acres and greater than or equal to 2 acres as of March 1, 2004.

Any water well used for other purposes or that is capable of producing more than 25,000 gallons per day, is a Non-Exempt Well, Classification 2. Applicant must complete a different form—*Application for Permit, Non-Exempt Wells, Classification 2.*

Check one of the following:

<input checked="" type="checkbox"/> COMBINATION DRILLING / OPERATING PERMIT <input checked="" type="checkbox"/> (Complete Sections all sections) <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Replacement Well	<input type="checkbox"/> PERMIT AMENDMENT <input type="checkbox"/> Modify Drilling Permit (Complete Sections 1, 2, 3, 4 & 6) <input type="checkbox"/> Modify Operating Permit (Complete Sections 1, 5 & 6) <input type="checkbox"/> Change in Well Ownership (Complete Sections 1 & 6) <input type="checkbox"/> Other Explain: _____
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**** Per Rule District Rule 9.3** and State Law TDLR all *State of Texas Well Reports* are due to the District within 60 days of well completion.

***** NEW Per District Rule 9.3.3** at completion of all wells Water Quality Assessment is required by the Pump Installer and/or Well Driller. District Staff will provide screen test, sample bottles, and coordinate with Pump Installer or Driller to retrieve the sample within 45 days of the well completion. Temporary pump to purge the well is required should the well not have pump permanently installed in first 45 days

See Permit Terms, Spacing/Acreage Requirements, and Notice Requirements on the back side of this form.

1. Owner Information

254-220-9777 Omega

Note: If well owner is different from property owner, provide documentation from property owner authorizing well construction and operation.

Well Owner: Nathan + Danielle McNeal Telephone No.: 254-3195980 nathan

Address: 21152 State HWY 195 Killeen TX 76542
(Street or P.O. Box) (City) (State) (Zip Code)

Contact Person (if other than owner): Omega McNeal Telephone No.: 2542209777

If ownership of well has changed, name of previous owner _____ State Well No. _____

2. Property Location and Proposed Well Location

Owner of property (if different from well owner): _____

Property is located 21152 miles S 195 of Killeen on HWY 195
(Number) (N, S, E, W) (Nearest City or Town) (Name of Road)

Acreage: 2 Bell CAD Property ID#: _____ Latitude: _____ Longitude: _____

3. Well Description

a. Proposed use of well and estimated amount of water to be used for each purpose:
 *Domestic; _____ Livestock; _____ Poultry.
*Total number of houses to be serviced by the well _____

b. Estimated distance from nearest:
400 FT N / S Property Line; _____ E / W Property Line; _____ Existing Septic Leach Field;
____ River, Stream or Lake; _____ Existing Water Well; _____ Livestock Enclosure;
____ Other Source of Contamination (cemetery, pesticide mixing/loading, petroleum storage tank, etc.

Required: Pump Installer / Well Driller Information (Required by Law)

Name: DANNY RAMON TDLR Pump Installer License Number: 4236RCP
Address: 2855 SANDY HOLLOW TDLR Well Drillers License Number: 52485A
(Street or P.O. Box) _____
BELTON TX 76513 _____
(City) (State) (Zip Code) _____
254-939-1588 254-939-3090 _____
(Phone #) (Fax #) (E-mail address)

4. Completion Information

Provide the following information to the extent known and available at the time of application.
NOTE: Provide the complete driller's log and any mechanical log, or chemical analysis, within 60 days of completion of well. Well must be drilled within 30 feet of the location specified and not closer to any existing well or authorized well site than the District's minimum spacing rule requires.

If amending existing permit, explain requested amendment and reason for amendment: _____

Latitude: 3093498 N; Longitude: 9778974 W; Elevation: _____ feet (ft) above msl.
Completion Date: _____; Driller: _____; License No.: _____
Total Depth of Well: 600 ft; Borehole Diameter (Dia) 7 inches (in) from 0 to 600, Dia. (2) _____ in. from _____ to _____.
Casing: Material PLASTIC; Inside Diameter (ID) 4 1/2 inches (in); Welded / Threaded / Bell Joint; Depth 600 ft.
Screen: Yes/No; Screen Type _____; Screen Dia. _____ in from _____ to _____ ft; Packing Yes/No; Type _____
Pump Type: Submersible ; Other _____; Power: Electric ; Other _____
Pump: Horsepower Rating 1 1/2; Diameter 4 1/2 in; Depth: 500 ft; Discharge Rate: 7 gpm;
Column Pipe ID: 1 1/4 in; Discharge Pipe ID: 1 1/4 in.
Water Level: _____ ft; Measured from _____ ft above ground level (GL); Date _____
Pumping Level _____ ft; Measured from _____ ft above GL; after pumping _____ hours/minutes; Date _____
Water Bearing Formation: TRINITY; Water Quality Analysis? Yes / No Date: _____

5. Annual Production

NOTE: If requesting operating permits or permit renewals for multiple wells, please attach a separate sheet with the information requested below for each well.

Current permitted annual production: _____ Requested increase/decrease: _____
Include statement/documentation explaining requested production: _____

Number of contiguous acres owned or leased on which water is to be produced: _____ acres
Total annual production requested: _____ acre-foot or _____ gallons
(Note: 1 acre-foot = 325,851 gallons)

6. Certification

I hereby certify that the information contained herein is true and correct to the best of my knowledge and belief. I certify to abide by the terms of the District Rules, the District Management Plan, and orders of the Board of Directors. I agree to comply with all District well plugging and capping guidelines as stated in the District Rules.

Owner Signature: [Signature] Date: 6.22.21

Estimate of Water Use/Needs:

Applicant name: Proposed CUWCD Well #: N1-21-003P Nathan & Danielle McNeal

Declare Usage Needs: Determined for each proposed non-exempt well

1) *Domestic: 3 # of people per household x 1 home x 120 g/day/person = 360 x 365 days/325851 = 0.40 ac-ft/yr

2) **Landscape Use (suggest that landscape watering be limited to 1500 square feet)

_____ gpm/zone x _____ minutes each zone runs = _____ gallons/zone

_____ gallons/zone X _____ number of zones = _____ gallons/day

_____ gallons/day x _____ days/wk system runs = _____ gallons/wk

_____ gallons/wk x _____ number of wks/year = _____ gallons/year

_____ gallons per year / 325851 = _____ acre feet per year requested.

Total needs: Household: 131,400 gallons per year

Landscape: n/a gallons per year

Proposed Annual Production Amount: 131,400 gallons and/or 0.40 ac-ft/year

The above estimate is for groundwater needs for a well on a tract of land less than 10 acres and greater than 2 acres subdivided after March 1st 2004.

**includes average household use for indoors and lawn irrigation.*

*** is estimate of groundwater needs (annually) for just outside landscape use for an N1 well when the home is provided public water supply.*

Executive Summary

Staff Report
Application for Combination Drilling/Operating Permit
N1-21-003P



Applicant/Owner: Nathan & Danielle McNeal 21152 State Hwy 195 Killeen, TX 76542			
Location of Well: 2.00 acre tract Located at 21152 State Hwy 195, Killeen, TX Latitude 30.93498°/Longitude -97.78974°			
Proposed Annual Withdrawal; Rate of Withdrawal: 131,400 gallons /year/well @ 7 gpm Total: 0.40 ac-ft/yr or 131,400 gallons per year	Aquifer: Lower Trinity	Proposed Use: Domestic	Nearest Existing Well: 4 wells within ¼ mile; 14 wells within ½ mile.

General Information

The applicant is requesting a combination drilling and operating permit to allow construction of a well to produce water for domestic use on a tract of land 2.00 acres in size. The proposed home site is less than 10 acres and greater than/equal to 2 acres. The applicant is required to obtain a drilling/operating permit for the proposed site having been subdivided after March 1, 2004 resulting in acreage less than 10. This well is considered as *Non-Exempt Well, Classification N1 per the application*, thus this well is not required to have a meter and reporting of monthly production is not required if classified as such.

Special Provisions will be discussed with the board should the permit be approved, to ensure compliance and conservation. The permit will be renewed annually by CUWCD staff, unless the applicant's circumstances change, and/or special provisions are not complied with, and/or conditions of the Lower Trinity Aquifer (Hosston Layer) merit curtailment of all permit holders in accordance with District Rules and Chapter 36 necessary to meet the DFC under statutory requirements.

CUWCD consulting hydrogeologist, Mike Keester LRE Water LLC, has reviewed the application, and has conducted the required drawdown analysis per district rules.

The applicant's permit request is for 0.40 ac-ft/year per well. The well will be producing from the Lower Trinity Layer of the Trinity aquifer at a maximum rate of 7 gallons per minute (gpm). Estimated annual production was calculated based on household usage of approximately 120 gallons/person/day average, thus 131,400 gallons per year per well. In comparison to the exempt wells privileges of 17 gpm or maximum 25,000 gallons per day is approximately 28 acre feet, the well is requesting substantially less groundwater.

This property lies within Chisholm Trail SUD CCN # 11590 (certificate of convenience and necessity); and the applicant has investigated with Chisholm Trail SUD for the possibility of public water supply delivery and will testify why they have choose to pursue groundwater rather than public water supply. Verification of on-site septic system has been conducted by Bell County Public Health District – Environmental Health Division. Applicant agrees to the required setback dimensions from the existing on-site septic system and the well will be more than 100 feet from the on-site septic system and will be approximately 53 feet from the property line. The proposed location of the well will not be closer than the required 50 feet from all adjacent properties. Owner has declared David Cowen as the contracted driller and Danny Ramm as the contracted pump installer.

Per Rules 6.9 and 6.10

In deciding whether or not to issue a permit, the Board must consider the following:

- 1) **Does the application contain all the information requested, is the application accurate? Does it meet spacing and production limitations identified by District Rules, and does it conformed to all application requirements which include public notification and accompanied by the prescribed fees? (Rule 6.10.24(a)(b), TWC 36.116(a)(1), TWC 36.113(d)(1) and Rule 6.9.1(b)(1)(2)**
The application is complete—all requested information has been provided. The application conforms to said rules with all required application fees. In addition, the applicant has met all notification requirements in a proper manner per District Rules.
- 2) **Is the proposed use of water dedicated to a beneficial use? (TWC 36.113(d)(3) and District Rule 6.10.24 (d).**
The water produced from this well will be used for domestic purposes (household) which is a beneficial use.
- 3) **Has the applicant agreed to avoid waste and achieve water conservation? (TWC 36.113(d)(6) and Rule 6.10.24(f)**
The applicant has agreed to avoid waste and achieve water conservation by signing the application form stating compliance with the District’s Management Plan. Applicant understands the importance of water conservation measures in the home and options for outside water conservation are vital to the rural experience. Rainwater Harvest catchment systems are encouraged for each of the future home sites needs for landscape. The District acknowledges that the applicant has stated they do not intend to utilize the groundwater for extensive landscape purposes.
- 4) **Has the applicant agreed that reasonable diligence will be used to protect groundwater quality and that the applicant will follow well plugging guidelines at the time of well closure? (TWC 36.113(d)(7) and Rule 6.10.24(g))**
The applicant has agreed (by signing the application form) should a well deteriorate over time that state law and district rules require such wells to be plugged before a replacement well can be drilled.
- 5) **Will the proposed water well comply with spacing and production limitations identified in our rules? (TWC 36.116(a)(1) and Rule 6.10.24(b) and Rule 9.5.2)**
The proposed well will have a column pipe with an inside diameter of 1 1/4 inch. Based on this column pipe size, a minimum size tract of 2 acres is required, with a 100

foot spacing requirement from other wells, the 50 foot setback requirement from adjacent property lines is met on all sides. District Rule 9.5.2 all property line setbacks have been agreed too. The proposed home site is less than 10 acres and greater than/equal to 2 acres.

The District rules do not impose production limitations other than those determined applicable in the review of the today's permit request or to prevent unacceptable level of decline in water quality of the aquifer, or as may be necessary to prevent waste and achieve water conservation, minimize as far as practicable the drawdown of the water table or the reduction of artesian pressure, lessen interference between wells, or control and prevent subsidence. These issues are considered in Items 6 & 7 below and with staff recommendations to address potential concerns of adjacent property owners.

6) Will the proposed use of water unreasonably affect existing groundwater and surface water resources or existing permit holders?

Based upon available information, there are 4 wells within ¼ mile of the well site, and 2 of these wells are reported as active and completed in the Middle Trinity aquifer, 1 well is reported as active and completed in the Lower Trinity aquifer and 1 well has an unknown depth with the nearest well being approximately 708 feet away. There are 14 additional wells within ½ mile, and 8 are listed as active, 1 is listed as plugged and 1 is listed as capped and completed in the Middle Trinity, 1 well is listed as active and completed in the Upper Trinity, 2 wells are listed as active and completed in the Lower Trinity and 1 well has an unknown depth and is listed as active. All but 1 of the wells are listed as exempt in our database.

Mike Keester, Hydrogeologist, LRE Water, has reviewed this application and has determined anticipated drawdown and has provided the attached report, with his conclusions and recommendations stating that the proposed well and permitted amount of 0.40 acre feet/year will not diminish the ability of other aquifer users to produce water for a beneficial use from the Lower Trinity Aquifer. He will also offer testimony as needed.

7) The proposed use of water is consistent with the District's water management plan.

The District's Management Plan reflects a groundwater availability figure in the Lower Trinity Aquifer of **7193 ac-ft/year Model Available Groundwater**. The District has reserved 178 ac-ft/year for exempt well use thus **3070.42 ac-ft/year** is technically available for permitting. Currently the district has permitted out **3944.58 ac-ft/year**.

The board, per the district management plan, has evaluated groundwater available for permitting the three Layers of the Trinity Aquifer and most recently evaluated the available groundwater for permitting (*consistent with the management plan as stated on pages 9-11*).

The requested permit amount relative to the **modeled available groundwater** MAG determined by the Texas Water Development Board (TWDB) based on the desired future conditions (DFCs) established by the District for the Lower Layer of the Trinity Aquifer was set by CUWCD based on drawdown of 330 feet for the next 60 years.

This drawdown was approved by the board in January 2019. To achieve this DFC, the TWDB used a model that indicated the MAG was equal to 7193 ac-ft/year for the Hosston Layer (Lower) Trinity Aquifer.

A summary of YTD 2021 permit production, HEUP & OP Permit Analysis, pending applications and Exempt Well Reservations for the Trinity Aquifer, per District Report (*see attached Trinity Aquifer Status Report, July 2021*).

- 8) **The Modeled Available Groundwater calculations determined by the Executive Administrator of the Texas Water Development Board.**
Refer to #7 above. The modeled available groundwater will not be exceeded by granting this permit.
(*see attached District Trinity Aquifer Status Report*).
- 9) **The Executive Administrator of the Texas Water Development Board's estimate of the current and projected amount of groundwater produced under the exemptions in District Rule 8.3.**
Refer to #7 above. Reservation of Modeled available groundwater for exempt well use will not be exceeded by granting this permit. 178 ac-ft is reserved vs 53 ac-ft estimated being used.
- 10) **The amount of groundwater authorized under permits previously issued by the District.**
Refer to #7 above. Existing permits do not exceed the managed available groundwater (*modeled available groundwater – exempt well use = Managed available groundwater*) for the Lower Trinity aquifer is 7193 ac-ft per year.
- 11) **A reasonable estimate of the amount of groundwater that is actually produced under permits issued by the District.**
The actual production from all permitted wells in in the Lower Trinity Aquifer in 2020 was 1119.97 acre-feet (28.6%) and ytd in 2021 is 697.85 acre-feet (17.69%) of permitted amount. (*Figures are based upon monthly production reports submitted to Clearwater by the permit holders in 2020 and 2021*).
- 12) **Yearly precipitation and production patterns.**
Clearwater is currently in no drought management stage based on the PDI system (average running total annual rainfall) over the Aquifer in the District, is currently at 33.404 inches rain received in the last 365 days (7/6/21) thus 101.22% of annual expected rainfall of 33 inches. Currently the permit holders in the first 6 months of 2021 have used only 16.14% of total permitted amounts. Permit holders did not exceed their total permitted amounts in 2020. The gravity of the drought of 2011-2015 necessitated the need for all permit applications to be evaluated based on conservative needs and usage that is not contradicted by the current drought contingency plan stage.

Conclusions:

- CUWCD well records indicate that 4 wells (2 Middle Trinity, 1 Lower Trinity and 1 unknown depth) are located within a ¼-mile radius and 9 additional Middle Trinity wells, 1 Upper Trinity well, 2 Lower Trinity wells and 1 undeclared wells are located within a ½-mile radius of the proposed well site. The wells listed as grandfathered exempt often times have declared depths by the original registrant at incorrect depths based on limited information at the time.
- The producing interval of the Lower Trinity aquifer based on adjacent property well driller's reports and our virtual bore (see attached) is estimated to be 570 feet bls.
- Keester also stated that at the proposed pumping rate, the projected water level decline is negligible in nearby wells being less than one foot after a year of pumping.
- Proposed annual permit amount of 0.40 acre-feet (131,400 gallons/year) is substantially less than the allowed production of an exempt well under Chapter 36 and District rules to produce at a rate of 17 gallons per minute (or 25,000 gallons per day) for 365 days equaling 28 acre feet/year. The long-term pumping effects from the proposed well at the requested pumping amount are negligible and the combined effects from many wells with relatively small pumping rates can have a noticeable long-term effect on aquifer water levels per Keester's review, thus the drawdown will not diminish the ability of other aquifer users to produce water for a beneficial use. (see Keester's Report)

Recommendations:

- 1) Approve the application for Nathan & Daniell McNeal's well with the following special conditions:
 - a. Require the well owner to have the driller/pump installer complete with the required sanitary seal if the proposed well will be closer than 100 feet and greater than 50 feet from the proposed on-site septic system.
 - b. Require that the well be equipped with a removable plug to allow clear access into the well for water level measurement by the District.
 - c. Require that the pump installer install a measuring tube alongside the column pipe to allow for measurement of the water level using an e-line or other direct measurement method.
 - d. Require that the well be measured by District Staff for the purpose including this additional data in the well monitoring program as a part of the DFC management effort by the district.

Trinity Aquifer Status Report – July 2021

<u>DFC Analysis Over Time</u> (2000-Present) <i>Modeled Available Groundwater</i>			<u>HEUP and OP Permit Analysis</u> <i>Relative to the Modeled Available Groundwater</i>			<u>2021 YTD</u> <u>Total Prod.</u> Jan - Jun <i>729.32 Ac-ft</i> <i>16.14%</i>		<u>Pending Applications</u>		<u>Exempt Well Reservations</u>		
Trinity Aquifer (by layer)	DFC Adopted * Average Drawdown (by layer)	MAG ** Ac-ft	HEUP Ac-ft (by layer)	OP Ac-ft (by layer)	Total Permitted Ac-ft (by layer)	2020 YTD Prod. (by layer)	2021 YTD Prod. (by layer)	Available for Permitting Ac-ft (by layer)	Pending Applications Ac-ft (by layer)	Exempt Well Reserve Ac-ft (by layer)	2020 Exempt Well Use Estimate Ac-ft (by layer)	Available Exempt Use Ac-ft (by layer)
		Current										
Pawluxy	NA	0	0	0	0	0	0	0	0			0
Glen Rose (upper)	-1.38 ft/yr -83 ft/60 yrs	974	61.9	72.13	134.03	25.85	6.13	146.97	0	693	194	499
Hensell (middle)	-2.28 ft/yr -137 ft/60 yrs	1099	259.3	208.40	469.70	93.69	25.34	81.30	0	548	524	24
Hosston (lower)	-5.50 ft/yr -330 ft/60 yrs	7193	1181.4	2733.18	3944.58	1119.97	697.85	3070.42	*** 1703.20	178	53	125
Total		9266	1502.6	3013.17	4548.31	1239.50 (27.45%)	729.32 (16.14%)	3298.69	1703.20	1419	771	648

*Desired Future Conditions (DFC) is the description of how the aquifer should look in the future (60 years).

**The Modeled Available Groundwater (MAG) is the estimated amount of water available for permitting assigned to Clearwater UWCD by the Executive Administrator of TWDB.






***Pending applications

Trinity Oasis LLC Operating Permit N2-13-002P (1702.8 ac-ft/yr) (this permit amount not reflected in Trinity Aquifer total permit amount; production contingent on TCEQ approval and plant construction)
Nathan & Danielle McNeal N1-21-003P (0.40 ac-ft/yr) from the Hosston



Clearwater UWCD Virtual Bore

Latitude	30.934994	Approximate Ground Surface Elevation	875.46
Longitude	-97.789703		

Top Elev. (ft)	Bottom Elev. (ft)		Depth to Formation (ft)*	Formation Thickness (ft)*	Formation (Geologic Unit)
875.46	413.124		0	462.336	Glen Rose
413.124	360.843		462.336	52.281	Hensell and Cow Creek Limestone
360.843	304.707		514.617	56.136	Pearsall and Hammett Shale
304.707	263.589		570.753	41.118	Hosston
263.589			611.871		Undifferentiated

*Depths / Thicknesses are not to scale

Disclaimer: This product is for informational purposes only and has not been prepared for or suitable for legal, engineering, or other purposes. All representations in this virtual bore represent only the approximate relative depths and thicknesses based on geological interpretation and extrapolation of available well data. Additional data may modify one or more of these formation surfaces. The Clearwater Underground Water Conservation District expressly disclaims any and all liability in connection herewith.

LRE Hydrogeologic Review



Proposed Well ID: N1-21-003P

Well Name: Nathan & Danielle McNeal

Tract Size: 2 Acres

Column Pipe Size: 1 ¼ Inches

Aquifer: Hosston Layer (Lower) of the Trinity Aquifer

Proposed Annual Production: 0.40 Acre-Feet per Year or 131,400 gallons per year

Proposed Instantaneous Pumping Rate: 7 Gallons per Minute

The potential effects of the proposed production on local water levels in the aquifer are calculated using the Theis equation¹ which relates water level decline (that is, drawdown) to the pumping rate of a well and properties of the aquifer. While the equation does not account for aquifer conditions which may affect the calculation of long-term water level declines (for example: aquifer recharge, faulting, or changes in aquifer structure), it does provide a very good, reliable, and straightforward method for estimating relatively short-term drawdown in and near a well due to pumping. As the duration of pumping and distance from the well increase, the uncertainty in the calculated drawdown also increases. To assess the potential effects from the proposed production, the equation uses values from the groundwater availability model datasets².

The following table presents the calculated drawdown at the proposed well and at other wells within one-half mile completed in the same aquifer. For *1-Day Drawdown*, we applied the proposed instantaneous pumping rate for a period of 24 hours. For *30-Day Drawdown*, we assumed peak pumping during the summer of about 15 percent more than the average monthly amount (that is, the proposed annual production rate divided by 12 then multiplied by 1.15). For *1-Year Drawdown*, we used the proposed annual production amount. Figure 1 illustrates the location of existing wells within one-half mile of the proposed well that are completed in the same aquifer.

Well Name	Distance from Proposed Well (feet)	1-Day Drawdown (feet)	30-Day Drawdown (feet)	1-Year Drawdown (feet)
N1-21-003P McNeal	—	1.2	Negligible	Negligible
E-02-1168G	707	Negligible	Negligible	Negligible
E-02-1798G	1,734	Negligible	Negligible	Negligible
E-02-1929G	2,147	Negligible	Negligible	Negligible

¹ Theis, C.V., 1935, The Relation Between the Lowering of the Piezometric Surface and the Rate and Duration of Discharge of a Well Using Ground-Water Storage: American Geophysical Union Transactions, v. 16, p. 519-524.

² Groundwater availability model (GAM) datasets include the Northern Edwards GAM, the Northern Trinity/Woodbine GAM (for the Upper and Middle Trinity aquifers), and the modified Northern Trinity/Woodbine GAM (for the Lower Trinity Aquifer).

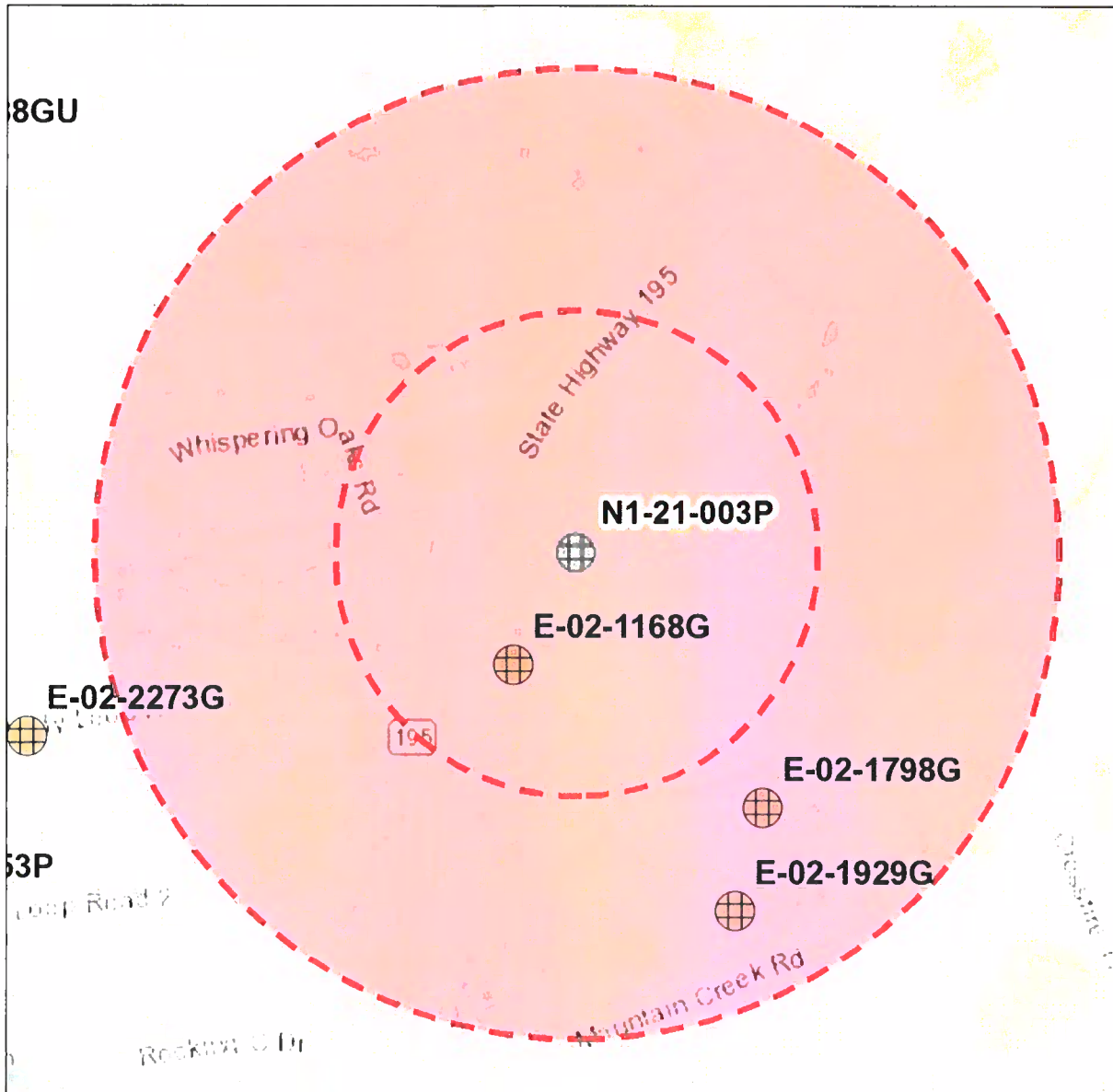


Figure 1. Proposed well and other nearby existing Lower Trinity wells within one-half mile.

The predicted drawdown presented above is based on our current understanding of the aquifer hydraulic properties and the estimated production from the proposed well. The predicted drawdown values presented do not include the effects from other wells pumping near the proposed well. Predicted drawdown of less than one (1) foot is considered negligible for analysis purposes due to inherent uncertainty in the aquifer hydraulic characteristics. The hydraulic characteristics of the aquifer suggest the local drawdown due to the proposed production will be negligible beyond the proposed well.




Recommendations

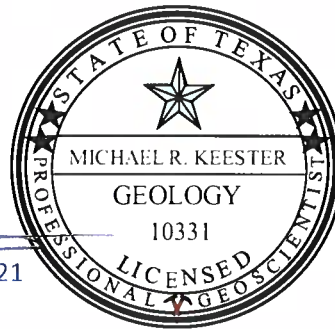
To assess actual changes in water levels due to pumping from the proposed well, the well driller should ensure there is a removable plug in the sanitary seal to allow clear access into the well for water level measurement by the District. In addition, if space allows, the pump installer should install a measuring tube alongside the column pipe to allow for measurement of the water level using an e-line or other direct measurement method. Upon discussion and coordination with the District, other automated water level monitoring methods may be considered for installation with the well.

Geoscientist Seal

The following licensed professional geoscientist(s) have reviewed the results and recommendations presented in this report of the potential effects due to production from a proposed well.

Michael Keester, PG


07/02/2021



Notification

N1-21-003P Contact List

Wells 1/4 Mile

<u>Prop ID</u>	<u>Name</u>	<u>Address</u>	<u>City</u>	<u>State</u>	<u>Zip</u>	<u>Well #</u>	<u>Status</u>	<u>Depth</u>	<u>Aquifer</u>	<u>Use</u>	<u>Distance</u>
464754	Jose Lorta	111 W. Hallmark Ave	Killeen	TX	76541	E-20-005P	Active	520	Middle Trinity	Domestic	1,278 ft
463554	Katheryn Stiles Richerson	21400 State Highway 195	Killeen	TX	76542	E-02-1168G	Active	600	Lower Trinity	Domestic	708 ft
28124	Wat Pah Samarkki	20905 State Highway 195	Killeen	TX	76542	E-19-023GU	Active	528	Middle Trinity	Domestic	779 ft
54522	Rock Creek Construction	PO Box 1198	Salado	TX	76571	E-02-3477G	Active	unknown	unkown	Domestic	886 ft

Wells 1/2 Mile

92851	Kenneth & Bobbie Peterson	388 Mountain Creek Rd	Killeen	TX	76542	E-02-1360G	Active	500	Middle Trinity	Domestic	2,349 ft
92851	Kenneth & Bobbie Peterson	388 Mountain Creek Rd	Killeen	TX	76542	E-03-417P	Active	513	Middle Trinity	Domestic	2,099 ft
496513	Joe & Angela Sapien	31500 State Highway 195	Killeen	TX	76542	E-14-068P	Active	520	Middle Trinity	Domestic	2,157 ft
496513	Joe & Angela Sapien	31500 State Highway 195	Killeen	TX	76542	E-02-1929G	Plugged	481	Middle Trinity	Not used	2,130 ft
107855	Danial & Kimberly Wood	656 Mountain Creek Rd	Killeen	TX	76542	E-02-3192G	Active	unknown	unkown	Domestic	2,347 ft
463544	Edward & Dorothy Hess	21600 State Highway 195	Killeen	TX	76542	E-02-1798G	Active	700	Lower Trinity	Domestic	1,737 ft
91870	Jerry Merrell & Darrelyn Gillette	310 Mountain Creek Rd	Killeen	TX	76542	E-02-1826G	Active	500	Middle Trinity	Domestic	2,170 ft
34488	Javier Martines & Petra Vazquez	1019 Carrie Circle	Killeen	TX	76541	E-20-075P	Capped	480	Middle Trinity	Domestic	2,474 ft
2297	Ramiro & Maria Ramirez	715 Whispering Oaks Loop	Killeen	TX	76549	E-02-3137G	Active	500	Middle Trinity	Domestic	1,538 ft
33134	Donald & Sandra Romer	704 Edwards Dr Ste A	Harker Heights	TX	76548	E-02-1128G	Active	524	Middle Trinity	Domestic	2,074 ft
42317	Kathie Adrian Shannon	404 Whispering Oaks Loop	Killeen	TX	76542	E-02-3138G	Active	560	Middle Trinity	Domestic	2,311 ft
48251	David & Denea Reaves	21625 State Highway 195	Killeen	TX	76542	N2-21-003P	Active	600	Lower Trinity	Domestic	1,639 ft
	Edward Ebert	690 Mountain Creek Rd	Killeen	TX	76542	E-19-207GU	Active	505	Upper Trinity	Domestic	2,332 ft
233888	Eula Lea Hunt Beck	20618 State Highway 195	Killeen	TX	76542	E-02-3406G	Active	500	Middle Trinity	Domestic	1,786 ft

Adjacent Property

463554	Katheryn Stiles Richerson	21400 State Highway 195	Killeen	TX	76542
186883	Clanie Stiles	21405 State Highway 195	Killeen	TX	76542
237724	PMB	4017 Washington Rd	McMurray	PA	15317

June 25, 2021

NOTICE OF APPLICATION FOR DRILLING AND OPERATING PERMIT

Name
Address
City, TX Zip

**VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

RE: Application for an Operating Permit

To Whom It May Concern:

We, Nathan & Danielle McNeal, have submitted an application to the Clearwater Underground Water Conservation District (CUWCD) on June 23, 2021 for a combination drilling and operating permit on a new well (N1-21-003P) for 0.40 acre-feet or 131,400 gallons per year.

This permit will authorize the withdrawal from a well completed in the Lower Trinity Aquifer with a 1 ¼ inch column pipe on a 2.00 acre tract located at 21152 State Highway 195, Killeen, Texas, Latitude 30.93498°/Longitude -97.78974° (well# N1-21-003P), to produce water for domestic use in a proposed annual quantity not to exceed 0.40 acre-feet or 131,400 gallons per year total.

This application will be set for hearing before the CUWCD Board upon notice posted at the Bell County Clerk's Office and at the CUWCD Office. If you would like to support, protest, or provide comments on this application, you must appear at the hearing and comply with District Rule 6.10. For additional information about this application or the permitting process, please contact CUWCD at 700 Kennedy Court, Belton, Texas 76513, 254-933-0120. The applicant may be contacted at 21152 State Highway 195, Killeen, TX, 76542 or by phone at 254-220-9777.

Sincerely,

Nathan & Danielle McNeal

NY 21-0057 - McIVRELL

7017 2400 0000 3022 6271

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

For delivery information, visit our website at www.usps.com®.
Killeen, TX 76542

Certified Mail Fee	\$3.60	0541
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	29
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.55	
Total Postage and Fees	\$7.00	06/25/2021

Sent To
 Street and Apt. No., or P.O. Box No. Clanie Stiles
 21405 State Hwy 195
 City, State, ZIP+4® Killeen, TX 76542
 PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 2400 0000 3022 6264

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Salado, TX 76571

Certified Mail Fee	\$3.60	0541
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	29
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.55	
Total Postage and Fees	\$7.00	06/25/2021

Sent To
 Street and Apt. No., or P.O. Box No. Rock Creek Construction
 P.O. Box 1198
 City, State, ZIP+4® Salado, TX 76571
 PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 2400 0000 3022 6257

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Killeen, TX 76542

Certified Mail Fee	\$3.60	0541
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	29
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.55	
Total Postage and Fees	\$7.00	06/25/2021

Sent To
 Street and Apt. No., or P.O. Box No. Wat Pah Samarkki
 20905 State Hwy 195
 City, State, ZIP+4® Killeen, TX 76542
 PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 2400 0000 3022 6967

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For delivery information, visit our website at www.usps.com®.
Killeen, TX 76542

Certified Mail Fee	\$3.60	0541
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	29
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.55	
Total Postage and Fees	\$7.00	06/25/2021

Sent To
 Street and Apt. No., or P.O. Box No. Katheryn Stiles Richerson
 21400 State Hwy 195
 City, State, ZIP+4® Killeen, TX 76542
 PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 2400 0000 3022 6950

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For delivery information, visit our website at www.usps.com®.
Killeen, TX 76541

Certified Mail Fee	\$3.60	0541
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	29
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.55	
Total Postage and Fees	\$7.00	06/25/2021

Sent To
 Street and Apt. No., or P.O. Box No. Jose Lorta
 111 W. Hallmark Ave
 City, State, ZIP+4® Killeen, TX 76541
 PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 2400 0000 3022 6268

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

For delivery information, visit our website at www.usps.com®.
McMurray, PA 15317

Certified Mail Fee	\$3.60	0541
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	29
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.55	
Total Postage and Fees	\$7.00	06/25/2021

Sent To
 Street and Apt. No., or P.O. Box No. PMB
 4017 Washington Rd.
 City, State, ZIP+4® McMurray, PA 15317
 PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**NOTICE OF APPLICATION FOR A COMBINATION DRILLING AND
OPERATING PERMIT FROM CLEARWATER UNDERGROUND WATER
CONSERVATION DISTRICT**

Nathan & Danielle McNeal have submitted an application to the Clearwater Underground Water Conservation District (CUWCD) on June 23, 2021 for a combination drilling and operating permit to authorize drilling and withdrawal from a proposed new well.

This permit will authorize the withdrawal from a new well completed in the Lower Trinity Aquifer with a 1 1/4 inch column pipe on a 2.00 acre tract located at 21152 State Highway 195, Killeen, Texas, Latitude 30.93498°/Longitude -97.78974° (well# N1-21-003P), to produce water for domestic use in a proposed annual quantity not to exceed 0.40 acre-feet or 131,400 gallons per year total.

This application will be set for hearing before the CUWCD Board upon notice posted at the Bell County Clerk's Office and at the CUWCD Office. If you would like to support, protest, or provide comments on this application, you must appear at the hearing and comply with District Rule 6.10. For additional information about this application or the permitting process, please contact the CUWCD at 700 Kennedy Court, Belton, Texas 76513, 254-933-0120. The applicant may be contacted at 21152 State Highway 195, Killeen, TX 76542, or by phone at 254-220-9777.

Publisher's Affidavit

State of Texas
County of Bell


Before Me, The Undersigned Authority, this day personally appeared Jane Moon after being by me duly sworn, says that she is the Classified Manager Inside Sales of the Temple Daily Telegram, a newspaper published in Bell County, Texas and that the stated advertisement was published in said newspaper on the following date(s):

June 26, 2021

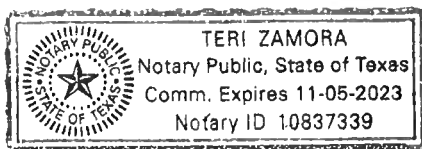
For: Nathan & Danielle McNeal
Ad #: 16668800
Cost: \$125.10
Times Published: 1


Jane Moon
Classified Manager Inside Sales

Subscribed and sworn to before me,
this day: June 28, 2021


Notary Public in and for
Bell County, Texas

(Seal)



**NOTICE OF APPLICATION FOR A
COMBINATION DRILLING AND OPERATING
PERMIT FROM CLEARWATER UNDERGROUND
WATER CONSERVATION DISTRICT**

Nathan & Danielle McNeal have submitted an application to the Clearwater Underground Water Conservation District (CUWCD) on June 23, 2021 for a combination drilling and operating permit to authorize drilling and withdrawal from a proposed new well.

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