Well Siting Study
Tyrone Water & Wastewater Association

Prepared for

Tyrone Water & Wastewater Association and New Mexico Finance Authority

Prepared by

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DB25.1378

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1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this well siting study report for the Townsite of Tyrone (Tyrone) under contract with the New Mexico Finance Authority (NMFA). The Tyrone Water & Wastewater Association (TWWA) owns and operates the water system serving 326 connections in Tyrone, New Mexico, located approximately 7 miles northeast of the Tyrone mine and 4.6 miles southwest of the Town of Silver City (Silver City). Most of the water system connections are residential, except for four: the fire station, post office, former gasoline station, and community center. The system was constructed in the 1960s by Phelps Dodge (now Freeport-McMoRan Inc. [FMI]), who owns and operates the mine. Figure 1 shows the location of Tyrone in relation to Silver City and the Tyrone mine.

Stantec prepared a preliminary engineering report (PER) in 2020 that evaluated the water system and recommended a full water distribution system replacement. TWWA is currently seeking additional funding to commence construction, with an anticipated start date of fall 2026.

The sole source of water for the water system at this time is Silver City. TWWA desires a secondary source of water supply to provide redundancy and resiliency.

The objective of this report is to identify the best location for a groundwater well to provide this secondary source of supply, and to develop a preliminary well design that can be used as the basis for estimating the probable cost of well drilling, construction, and connection to the TWWA system. This report describes history of the current wells, local geology, local hydrogeology, and water quality data, and provides comparison of alternative locations and recommendations.

2. Background

2.1 Tyrone Water System

The waterline from Silver City connects to the elevated tank and water is supplied by gravity to all customers within Tyrone. From the PER, the Tower tank is a 200,000-gallon elevated located at the southwest end of the water system. It was constructed in 1967, has a diameter of 36 feet and a depth of 32 feet, and is elevated approximately 60 feet above ground level.

A water model was prepared as part of the PER. The output from the model shows that system pressures range from 69 pounds per square inch (psi) to 109 psi. All the piping is asbestos cement pipe (ACP), a product which was last manufactured in the early 1960s; this piping is past its anticipated service life.

This system is designated as New Mexico public water system (PWS) NM3500309. According to New Mexico Environment Department (NMED) Drinking Water Watch (DWW) online records, TWWA purchases water from the Silver City water system (PWS NM3522609). The average daily production of the system is 102,000 gallons per day (gpd). The PER identified an average day water demand of 57,280 gpd, which is more accurate as it is based on metered water use. Water use is metered at a master meter and also at individual customer connections.

2.2 Water Rights

Water rights records for the area are provided in Appendix A. Based on the agreement for water and wastewater service between the Tyrone Property Owners Association and Silver City, dated September 2012, a water supply well was donated to Silver City by Phelps Dodge Corporation under a 1967 water service agreement.

If TWWA does not own water rights, it is possible that they will need to either purchase or lease water rights to allow for the use of water from a new well. In the Mimbres Basin, obtaining water rights is complex because the basin has been "closed" to new appropriations since 1972. This means that the state generally does not grant new water rights; instead, one must typically acquire existing rights and transfer them to a new well location.

There may be room for negotiation with Silver City based on the previous transfer of a well to Tyrone for the purpose of supporting Tyrone's water use.

It is possible to drill a well without a water right, but to use the well for its intended purpose requires the appropriate water right.

2.3 Area Wells

There are 98 existing wells within a 2-mile radius of the site, as shown on Figure 2. A subset of those wells located nearer Tyrone were evaluated, and are discussed in this report. Well completion information for these wells is provided in Table 1. Well logs are provided in Appendix B.

Table 1. Selected Well Information

Well	Year Installed	Casing Diameter (inches)	Total Depth (feet bgs)	Depth to Water (feet bgs)	Screen Interval (feet bgs)	Yield (gpm)	Lithology
M 11935 POD 1 (active)	2023	4	470	150	370–390	11	Sandstone, gravel, conglomerate
M 11819 POD 1 (active)	2021	4	300	200	—	20	Sandstone, gravel, conglomerate
M 02922 (active)	1971	8	140	40	—	—	Brown and green rocks
M 11898 (active)	2022	4	400	300	—	30	Sandstone, gravel, conglomerate
M 08092 (active)	1995	6.63	350	200	—	—	—
M 04034 (inactive)	1975	6	900	280	—	300	—
M-02903 (active)	1970	—	680	355 [a]	—	950	Tertiary volcanic- Basalt and basaltic andesite flows (Malpais, red rock, ash)
M-10369 (active)	2005	4	353	297	313–353	3	Conglomerate w/red clay seams
M-11475 (active)	2016	4	432	360	332–432	30	Fractured volcanic
M-11246 (active)	2011	2	71	55	30–71	NA	Silty sand, gravel, brown
M-04034 (inactive)	1975	6	900	280	—	300	Malpais, red volcanics with sandy interbeds
M-04035 (inactive)	1975	6	906	284	—	800	Malpais, red volcanics with sandy interbeds
M-11557 (active)	2017	4	353	252	253–353	18	Sandstone/gravel/ conglomerate
M-12145 (pending)	2025	7	478	240	418–478	8	Conglomerate with black shell and round gravels
M-11094 (active)	2009	4	320	213	275–315	10	Sandstone/gravel/ conglomerate
M-11556 (active)	2016	4	420	150	320–420	15	Sandstone/gravel/ conglomerate
M-2735 (active)	1957	—	835	463 [a]	—	418.5	—

[a] Measured in 2002 from top of casing
bgs = Below ground surface
gpm = Gallons per minute
— = Unrecorded

From the data reviewed, total depths of wells in the area range from 140 to 900 feet below ground surface (bgs), with static water levels at the time of well completion ranging from 40 to 300 feet bgs. Common lithology of these wells is primarily sandstone, gravel, and conglomerate. Reported local well yields are in the range of 11 to 300 gallons per minute (gpm).

2.4 Area Geology

The Tyrone water system is located on the eastern side of Little Burro Mountains in the Mimbres Basin, southeast of the Continental Divide. Faults run through the area, with the Pipe Line Draw Fault running southeast north of Tyrone. The Burro Mountains consist of a large area of Precambrian rocks, which are intruded by Laramide to mid-Tertiary stocks, plugs, sills, and dikes (Hedlund, 1980). The oldest rocks found within the Burro Mountain include Proterozoic metamorphic rocks, which include schist, gneiss, and amphibolite (Amato et al., 2008). In Tyrone, porphyry copper deposits may be found.

Through uplift and erosion, the mineralized rocks present within the mountain rose toward the surface where the minerals interacted with groundwater. Due to weather, the copper was concentrated. Once exposed to oxygenated water, rocks containing pyrite formed sulfuric acid. The acid mixed with copper-bearing minerals and resulted in a copper that replaced chalcopyrite and pyrite and formed a zone of enriched copper mineralization. This process is known as supergene enrichment (Kelley, 2012). More recently, tilting caused part of the supergene ore present at the site to be exposed. This exposure caused the oxidation and forming of chrysocolla and other copper minerals (DuHamel et al., 1995; Cook, 1994).

According to a soil survey from the U.S. Geological Survey (USGS), the soil within Tyrone is characterized as a loamy type of soil (Appendix C). A geologic map is provided as Figure 3. Rock types primarily found in Tyrone and surrounding areas are igneous intrusive and sedimentary rocks. Sedimentary deposits in the area consist of Holocene alluvium (poorly sorted gravel, sand and silt deposits with gravel fragments consisting of Precambrian granite and tertiary volcanic rock) and fan deposits (subangular to angular, poorly sorted fragments of Precambrian rock and tertiary volcanic rock). Underlying these deposits is the Gila conglomerate, consisting of fanglomerate, conglomerate and beds of light brown silty tuffaceous sandstone (Hedlund, 1978).

2.5 Area Hydrogeology

Groundwater in the area primarily comes from the upper and middle hydrostratigraphic units of the Gila Group aquifer, primarily composed of partly consolidated sand, gravel, silt, and clay The saturated thickness of the upper Gila Group in the Silver City–Tyrone area is on the order of several hundred feet and may be up to about 900 feet thick based on published estimates at nearby well fields (Johnson et al., 2002). The hydraulic conductivity of the upper Gila Group ranges up to 10 feet per day (ft/d) and yields from <10 to 1,000 gpm (Johnson et al., 2002).

Depths to water in the area range from 55 to 360 feet bgs, with estimated well yields ranging from 3 to 30 gpm. Two nearby municipal well fields for Silver City (Woodward and Hayes) are located within a 2-mile radius of Tyrone. The Woodward well field is approximately 0.9 mile west of the TWWA site and the Hayes well field is 0.2 mile north of the TWWA site. A study performed in 2002 by Balleau Groundwater Inc. (Balleau) determined depths to water from top of casing ranging from 463 to 629 feet, estimated yields of 250 to 500 gpm, and specific capacities of 3.8 to 10.9 gallons per minute per foot (gpm/ft) for the Woodward well field. For the Hayes well field, depth to water from top of casing was 355 feet, estimated well yield was 1,100 gpm, and specific capacity was 52.8 gpm/ft. The Woodward well field draws from the Gila Group aquifer, while the Hayes well field draws from an underlying aquifer in tertiary volcanic rocks with properties that are not fully understood.

As groundwater flows from recharge areas to discharge areas at the Tyrone Mine area, it captures dissolved constituents as it flows through the various rock types. This process results in decreased groundwater quality. The minerals present include unoxidized sulfide deposits, zones of oxidation and filtration products, and vein deposits. The Tyrone Mine area includes the presence of fluorite deposits in the quartz veins. These deposits result in naturally elevated concentrations of fluoride in the surrounding area groundwater (Trauger, 1972).

Impacted groundwater occurs beneath some areas of the Tyrone Mine. Areas of impacted groundwater have been investigated and are monitored, and various capture systems and source control measures have been implemented. NMED oversees all groundwater monitoring activities. Groundwater beneath and adjacent to the Tyrone Mine will not flow toward the Silver City water supply wells (DBS&A, 2012).

2.6 Water Quality

Groundwater in Grant County has shown elevated iron and fluoride levels. However, only a few wells near or within the Tyrone area tested in the 1950s exhibited iron and nitrate

concentrations above maximum contaminant levels (MCLs), and none exceeded the MCL for fluoride (Trauger, 1972). Overall, both surface and groundwater in the Grant County area are considered to be of good quality. Still, localized areas may be affected by leaking gasoline storage tanks, nitrate from septic systems, elevated sulfate and total dissolved solids (TDS) concentrations from mining operations, or excessive nutrients from surface water recharge.

Based on Drinking Water Watch, more recent testing has detected levels of trichloroethene (TCE) (5.4 micrograms per liter [µg/L]) and tetrachloroethene (PCE) (5.2 to 5.3 µg/L) exceeding the EPA MCL (5 µg/L) in both entry-point and well samples collected in 2011 and 2015 for Tyrone and Silver City. These findings suggest potential localized contamination from industrial activities, such as improper chemical disposal, spills, or leaking underground storage tanks (USTs). According to the U.S. Environmental Protection Agency (EPA), long-term exposure above the MCL for these compounds can increase the risk of liver damage and cancer.

In 2025, testing also revealed elevated gross beta particle activity (4.1 picocuries per liter [pCi/L]) in some entry-point samples from Tyrone and Silver City water systems. This parameter measures total radioactivity in water, typically from the decay of potassium-40 and radium-228. According to the Office of Environmental Health Hazard Assessment of California, prolonged consumption of water with elevated beta activity may lead to tissue damage.

2.7 Supplementary Well Evaluation

The new well must be located within the existing Tyrone townsite. The existing townsite and water system are shown on Figure 4. A potentiometric surface map for the area is provided as Figure 5.

2.8 Potential Well Sites

The potential well sites were evaluated using both cost and non-cost factors as follow:

- *Construction cost:* Drilling and casing expenses only (excludes pumps and site development).
- *Anticipated yield:* A minimum yield of ~70 gpm is desired to meet current water demand.
- *Infrastructure proximity:* Closer to existing water system reduces pipeline costs.

Three potential well sites were considered at the following locations (Figure 6):

- *Alternative 1:* Adjacent to the existing water tank (lower pipeline costs)

- *Alternative 2:* North Tyrone Townsite, near Turquoise Drive (higher well yields)
- *Alternative 3:* South Tyrone Townsite property, between Covelite Drive and Tenorite Court (possibility of shallow water tables and furthest from other municipal wells)

2.8.1 Site Comparison

Wells will be designed to produce water either from the aquifer in the Gila Formation and/or the underlying aquifer in Tertiary volcanic rock. Although the properties of the Gila Aquifer in the area are known, the Tertiary volcanic aquifer extent and properties are not fully understood; however, data have suggested that the two are hydrologically connected (Johnson et al., 2002). Therefore, data from the New Mexico Office of the State Engineer (OSE) New Mexico Water Rights Reporting System (NMWRRS) and published resources (Balleau, 2006; Trauger, 1972) in or around the Tyrone area were used to inform the following analysis. Additionally, because depth to water data in the area are sparse in the Tyrone area (more so on the western side), we performed an inverse distance weighting interpolation using available data to estimate probable water table elevations where information was unavailable. Additionally, for well depths recorded before the year 2000, new water depths were estimated based on the estimated historical drawdown of the water table determined by Balleau (2006).

2.8.1.1 Well Site Alternative 1

This location sits next to the current Tyrone water tank at ~5,873 feet above mean sea level (feet msl). Reported depth to water in the nearest wells ranged from 40 feet bgs (NMWRRS, measured in 1971) to around 463 feet (Balleau, measured in 2002). According to our interpolation, the water table is at approximately 5,540 feet msl, suggesting groundwater at approximately 333 feet bgs. We recommend that the well at this site be drilled to a minimum depth of 600 feet bgs, which should put the bottom of the well below the water table and within the upper Gila Group aquifer. We recommend screening the new proposed well at this location from 420 feet bgs to at least 10 feet above the bottom of the well for a 170-foot screen interval. It is anticipated that this well could potentially yield 10 to 100 gpm. Direct connection to existing infrastructure requires minimal piping or system upgrades, significantly reducing tie-in costs.

2.8.1.2 Well Site Alternative 2

This site is located in the northern part of the Tyrone townsite (coordinates 32.712845, -108.298303), at a ground elevation of approximately 5,709 feet msl. At this location, the water table elevation is estimated to be around 5,550 feet msl (~159 feet bgs). This site is positioned

north of Pipe Line Draw, which could provide access to the Tertiary volcanic aquifer. It is recommended that this well be drilled to a depth of at least 680 feet bgs, with the bottom 300 feet of the well underlying the Gila Formation. We recommend that the well be screened from 250 feet bgs to a depth of 10 feet above the bottom of the well. This site provides access to the potentially more productive Tertiary volcanic aquifer. Estimated yields for wells close to the area that tap this aquifer can potentially be 100 to 200 gpm.

2.8.1.3 Well Site Alternative 3

This site is located in the southern part of the Tyrone townsite (coordinates 32.706788, -108.303241), at a ground elevation of approximately 5,810 feet msl. This site's water table is among the shallowest in the area at approximately 5,645 feet msl (~165 feet bgs) based on our interpolation and is the farthest away from other well fields near Tyrone, minimizing potential interference from existing production wells. It is recommended that this well be drilled to a depth of at least 500 feet bgs, which should put the bottom of the well below the water table and within the upper Gila Group aquifer. We recommend that the well be screened from 200 feet bgs to a depth 10 feet above the bottom of the well. Nearby well data suggest that this well could potentially yield 5 to 30 gpm. This site shallow groundwater access reduces drilling costs but offers the lowest yield potential among the three sites. Additionally, this site is close to a residential area and can have potential construction access challenges.

2.8.2 Comparison of Well Sites

Table 2 summarizes information about the three well sites.

Table 2. Well Site Alternatives

Alternative	Total Recommended Depth (feet)	Water Table Depth (feet bgs)	Anticipated Yield (gpm)	Proximity to Water System (feet)
Alternative 1: Tank Site	600	333	10–100	0
Alternative 2: NE corner of Townsite	680	159	100–200	500
Alternative 3: South side of Townsite	500	165	5–30	250

The water system configuration is such that the source water is conveyed to the elevated storage tank and all water flows by gravity to the customers. Alternatives 2 and 3, while relatively close to the water distribution network, would need to pump water through the distribution network to the tank. While this is feasible, dedicated transmission to water storage

is preferred in water systems because (1) it provides the opportunity for chlorine contact time for disinfection in the tank and (2) it makes it possible to control water age. Table 3 compares the sites on selected criteria.

Table 3. Comparison of Well Sites

Alternative	Cost	Yield	Pros	Cons
Alternative 1: Tank Site	$$	++	Proximity to tank makes it hydraulically compatible; least amount of piping	Deeper than Site 3 due to elevation relative to water table
Alternative 2: NE corner of Townsite	$$$	+++	Best anticipated yield	Either pumps to distribution or requires construction of dedicated transmission main; highest predicted cost
Alternative 3: South side of Townsite	$	+	Lowest predicted cost due to least total depth	Either pumps to distribution or requires construction of dedicated transmission main; lowest predicted yield

Any of the sites is a feasible location for the well, with relatively close proximity to the water system and located within the townsite boundaries. Site 2 is the most promising for yield. However, based on cost, anticipated yield, and proximity to the tank, Site 1 appears to be the most favorable option.

2.9 Preliminary Well Design

A preliminary well design was prepared for Site 1 based on information reviewed and is shown on Figure 7. The design is based on 600 feet total depth and 8-inch casing.

2.10 Engineer's Opinion of Probable Cost

DBS&A prepared an engineer's opinion of probable cost (EOPC) for the well drilling construction (Appendix D). The estimated cost of well drilling and construction is $842,000. There will be additional project costs to connect the well to the system. These costs include well pump installation, extension of electric service, construction of a concrete masonry unit (CMU) building to house the wellhead and aboveground piping assembly, and sodium hypochlorite disinfection. The full project costs will be included in a PER addendum that DBS&A is preparing in conjunction with this well siting study.

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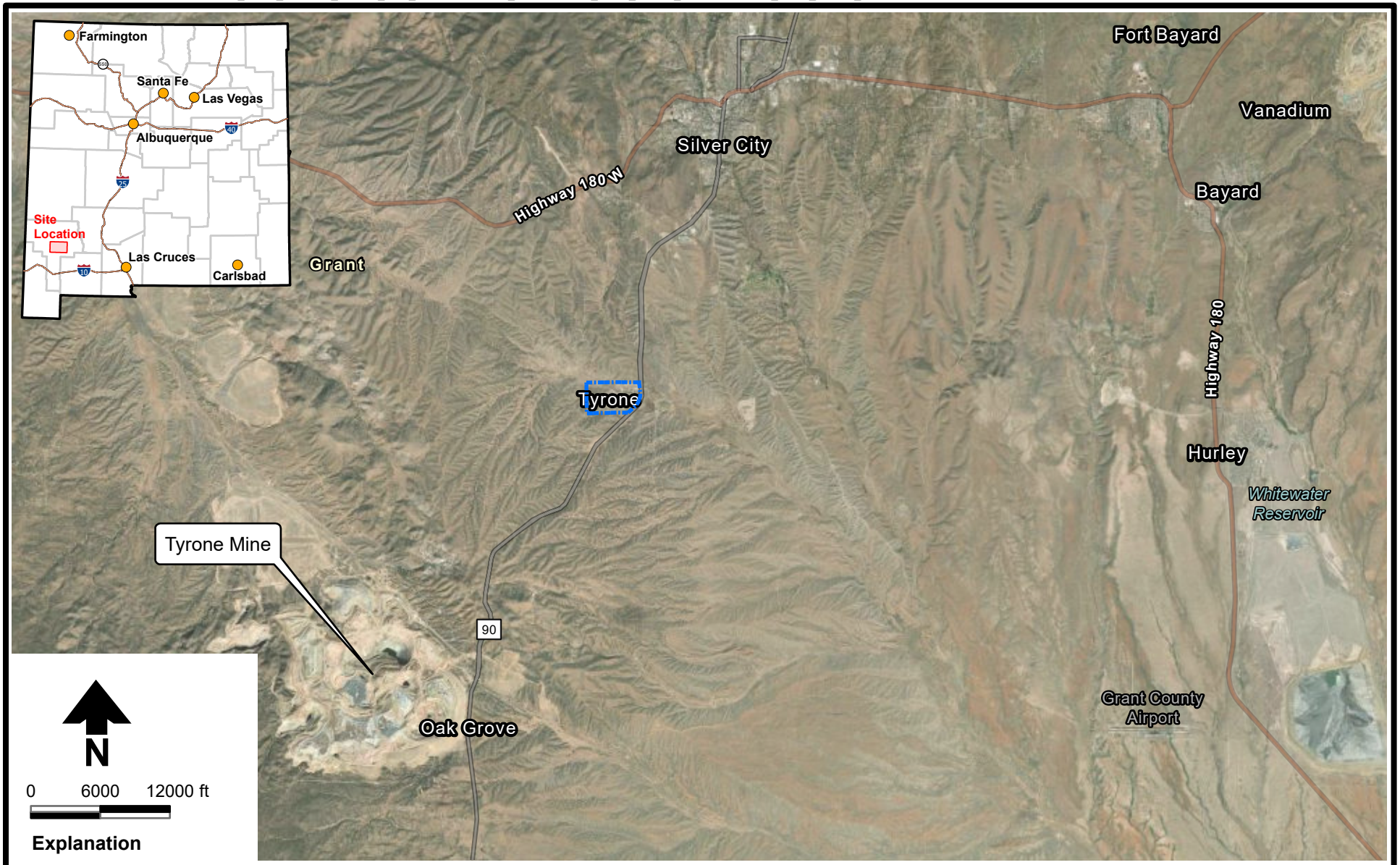
Figures



Explanation

Tyrone townsite

Aerial image: Vantor, 11/4/2023

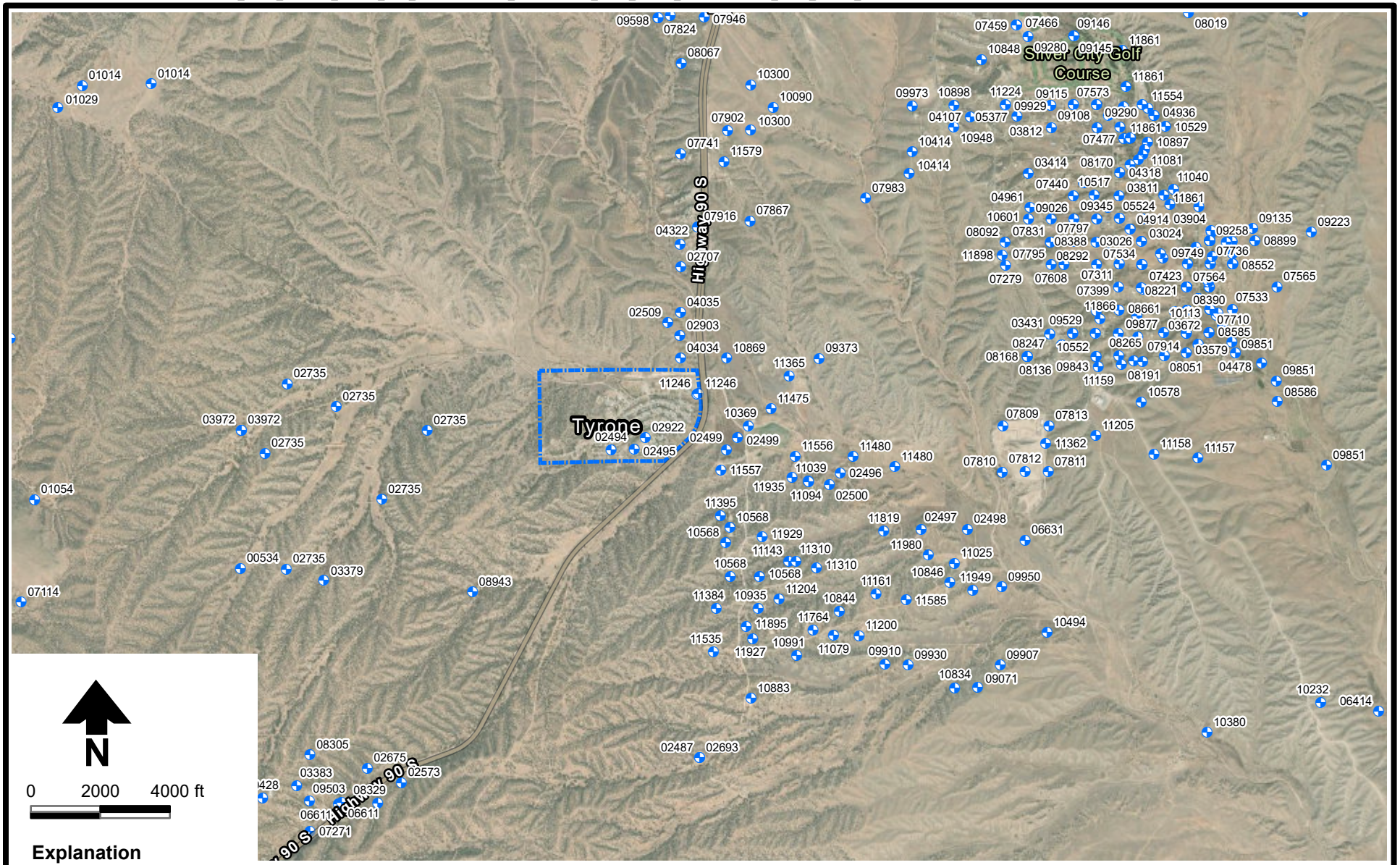
TYRONE WATER & WASTEWATER ASSOCIATION
WELL SITING STUDY

Vicinity Map

DBS&A a Geo-Logic Company

1/30/2026 DB25.1378

Figure 1



Aerial image: Vantor, 11/4/2023
Well source: New Mexico Office of the State Engineer NM OSE Open Data Site
Accessed June 2, 2025

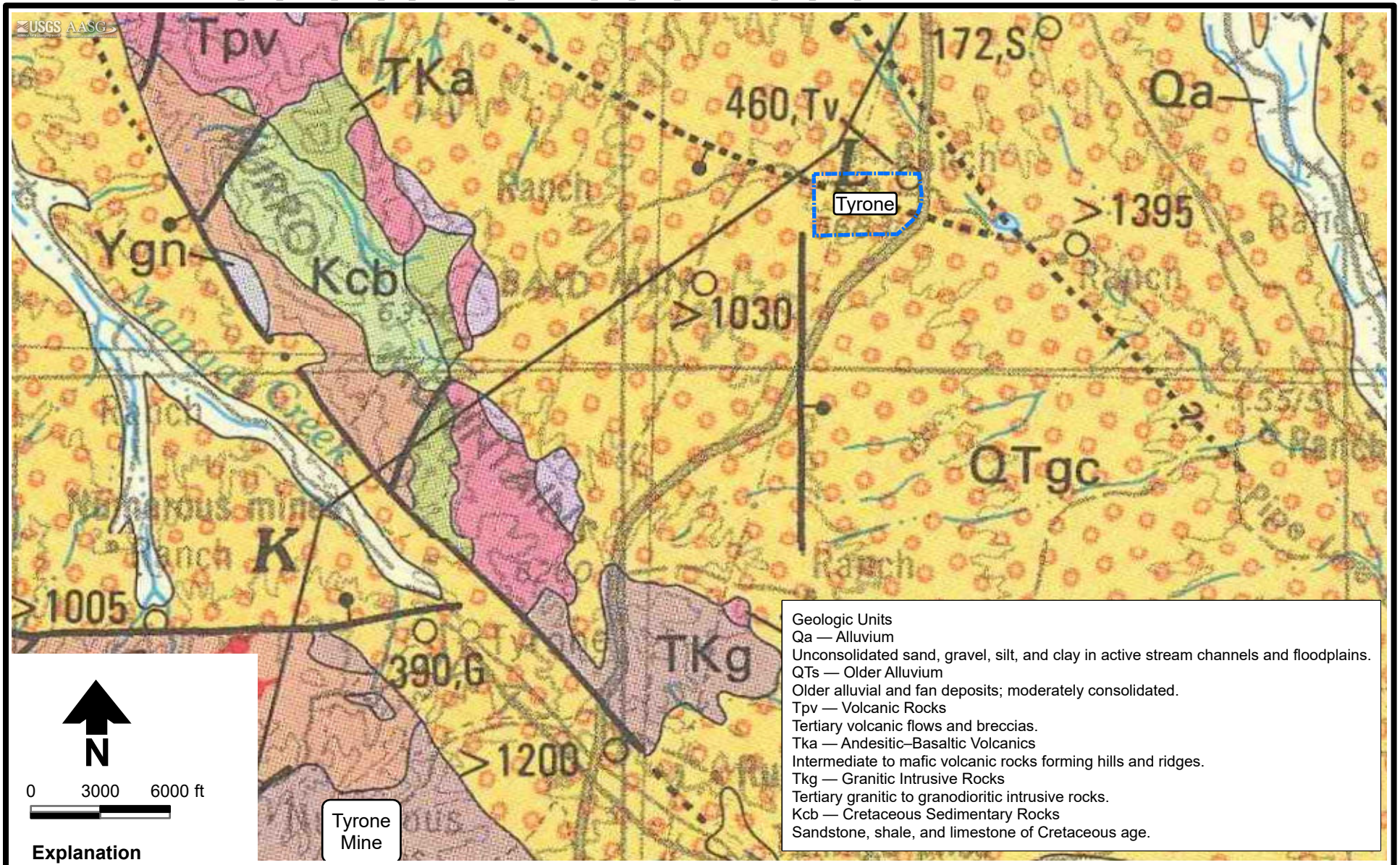
TYRONE WATER & WASTEWATER ASSOCIATION
WELL SITING STUDY

Existing Wells in Study Area

Figure 2

DBS&A a Geo-Logic Company

1/30/2026 DB25.1378



N

0 3000 6000 ft

Explanation

Tyrone townsite

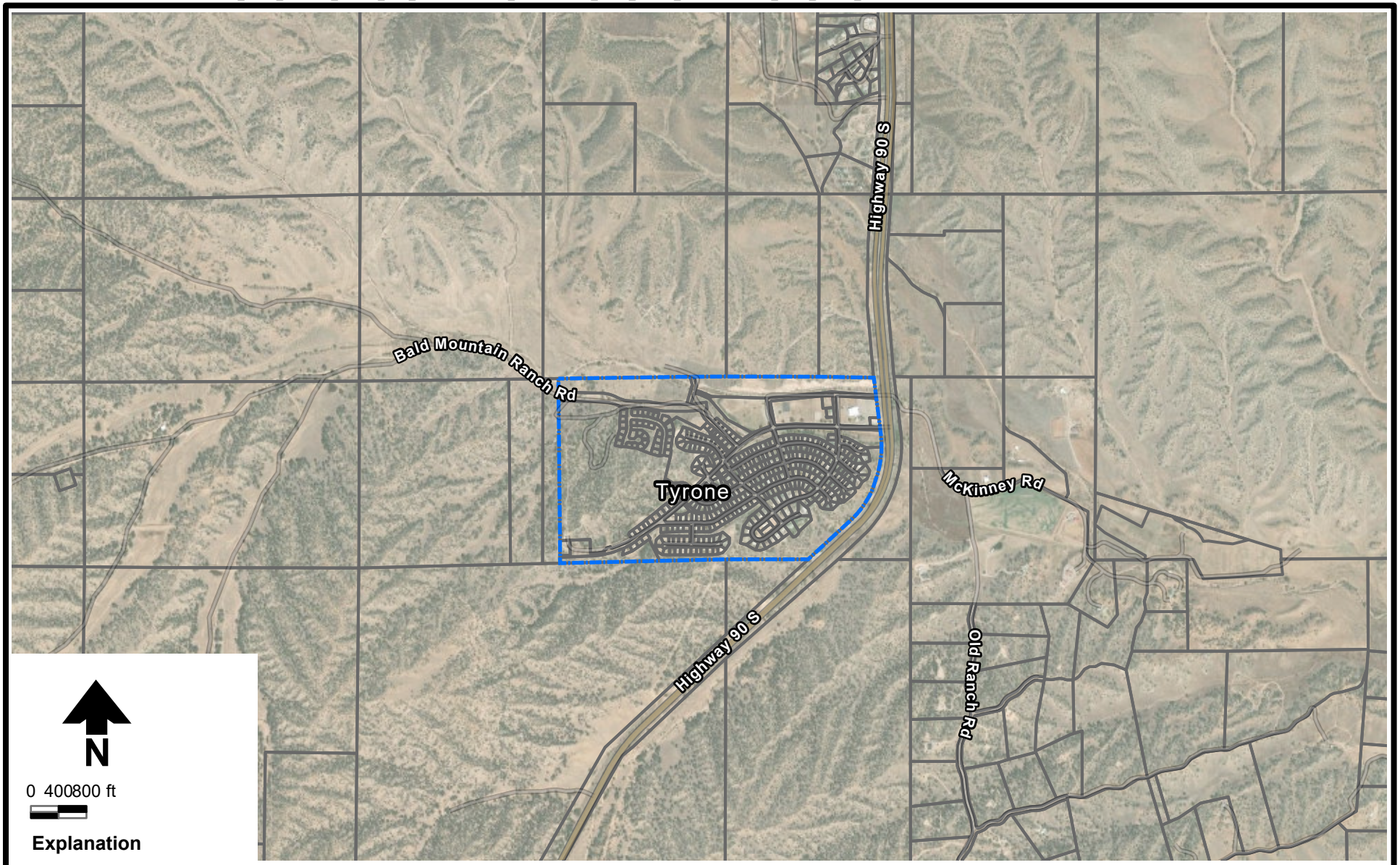
Source: USGS_GF-199_1.kmz

TYRONE WATER & WASTEWATER ASSOCIATION
WELL SITING STUDY
Geologic Map

DBS&A a Geo-Logic Company

1/30/2026 DB25.1378

Figure 3



Explanation

Parcel

Tyrone townsite

Aerial image: Vantor, 11/4/2023

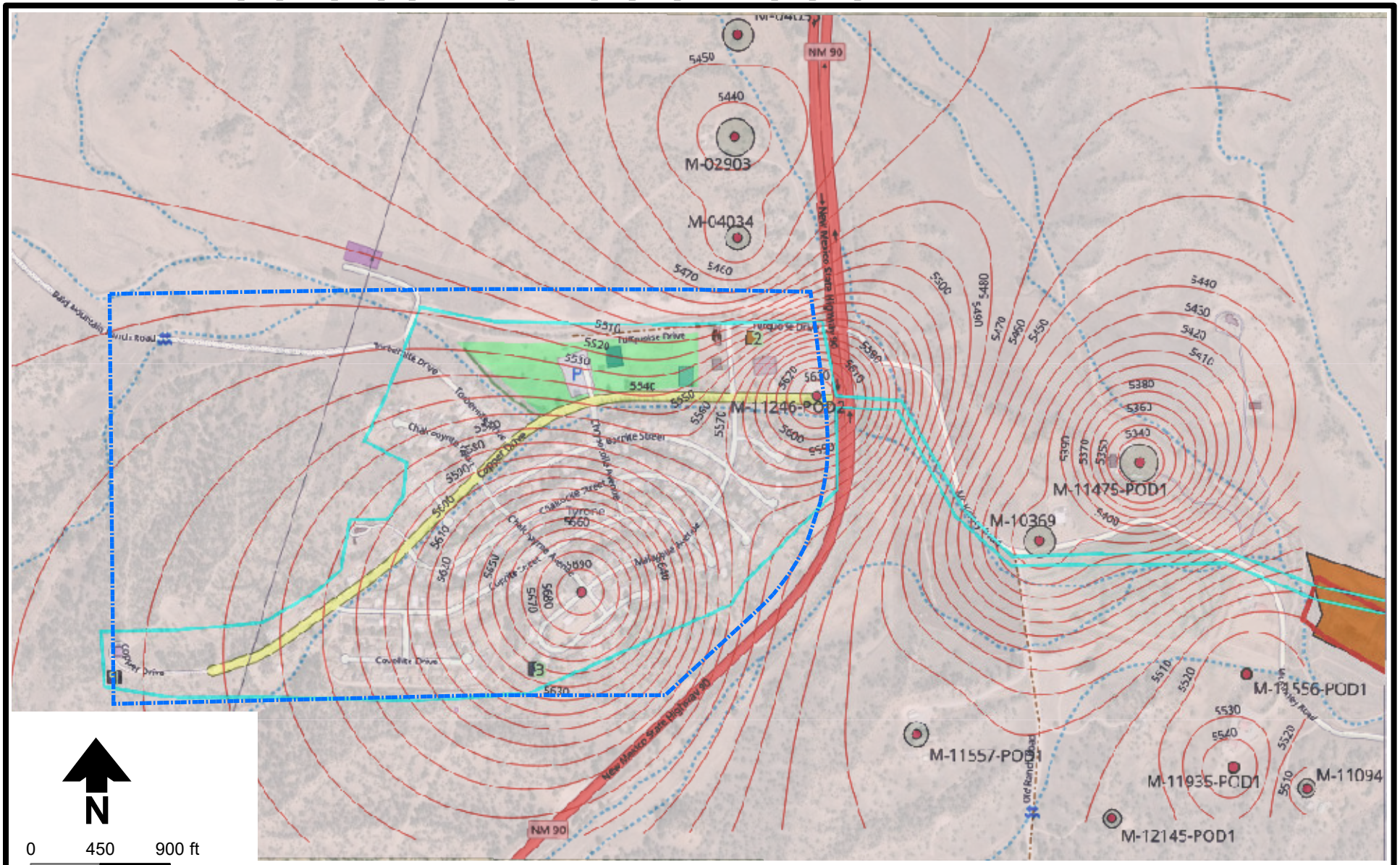
TYRONE WATER & WASTEAWATER ASSOCIATION
WELL SITING STUDY

Tyrone Townsite with Parcels

DBS&A a Geo-Logic Company

1/30/2026 DB25.1378

Figure 4



N

0 450 900 ft

Isocontours derived from well depth data from NM OSE Points of Diversion, NMWRRS, and Balleau Groundwater, Inc. (2006).
Aerial image: Vantor, 11/4/2023

Explanation

Tyrone townsite

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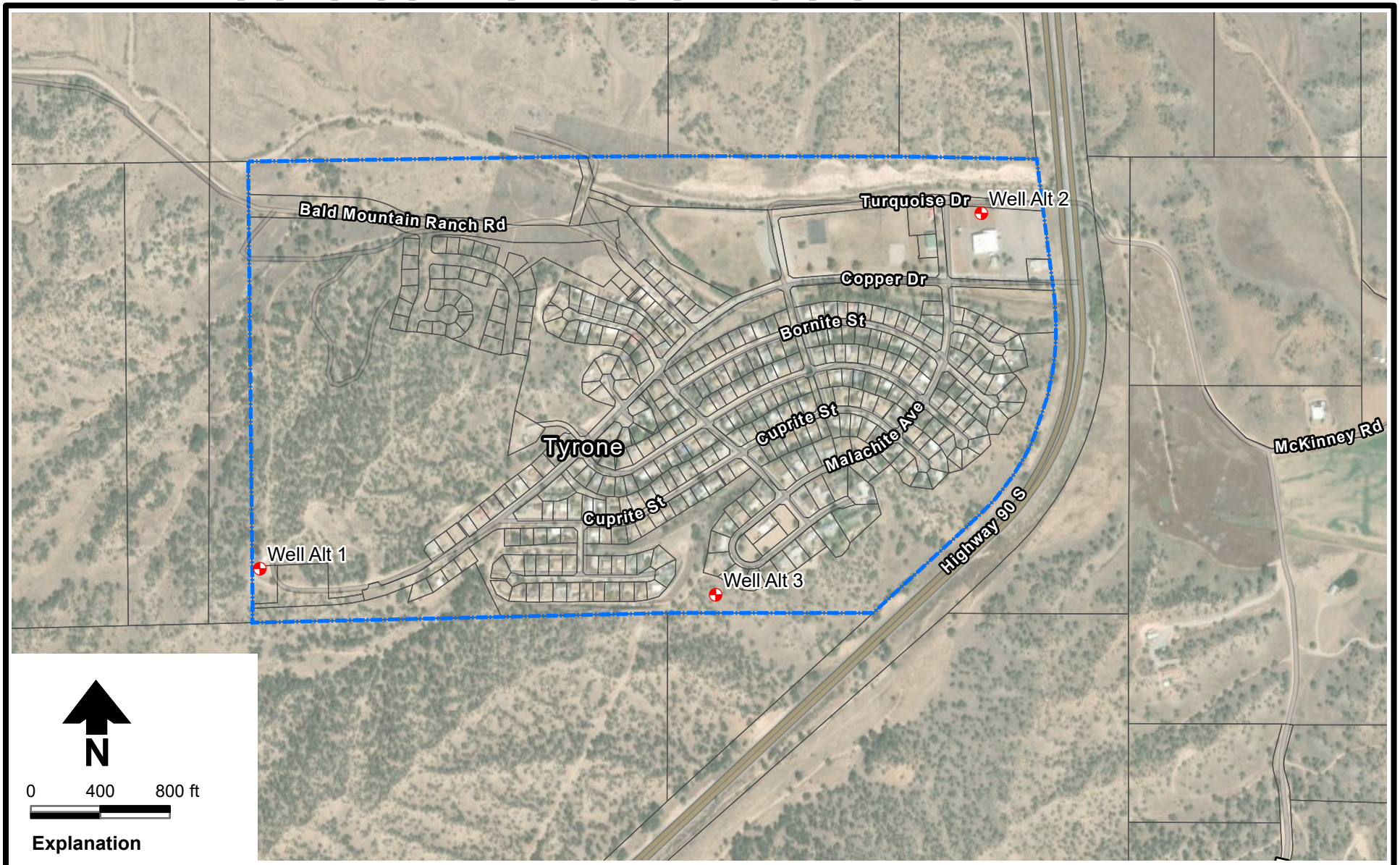
TYRONE WATER & WASTEWATER ASSOCIATION
WELL SITING STUDY

Potentiometric Surface

Figure 5



N

0 400 800 ft

Explanation

- Alternative well
- Tyrone townsite
- Parcel

Aerial image: Vantor, 11/4/2023

TYRONE WATER & WASTEWATER ASSOCIATION
WELL SITING STUDY

Alternative Well Locations

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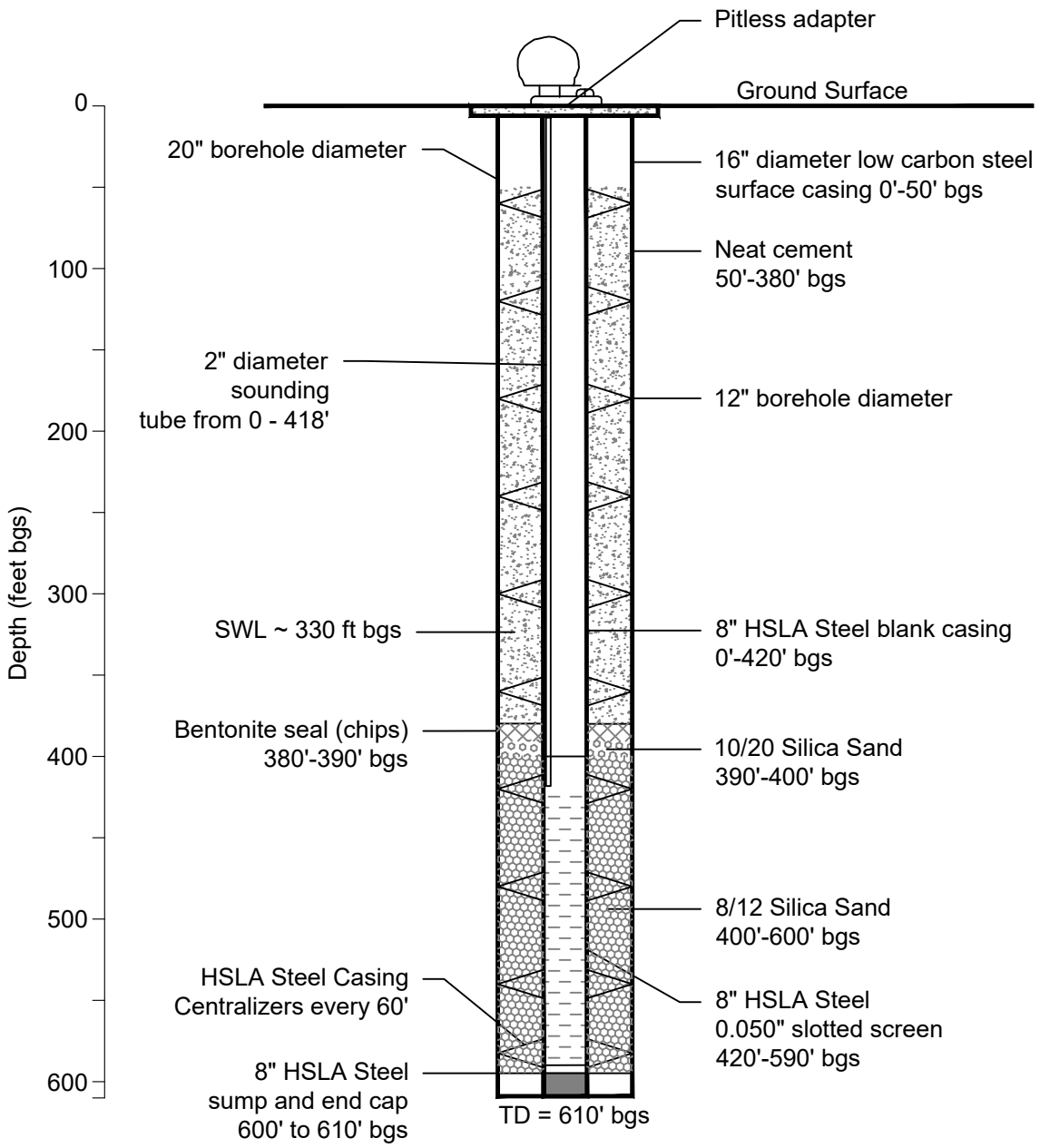
Figure 6

Depth and style of the well may vary based on engineer or geologist.



Notes:
1. Not to scale
2. bgs: below ground surface
3. btoc: below top of casing
4. SWL: Static water level

TYRONE WATER & WASTEWATER ASSOCIATION
WELL SITING STUDY
Preliminary Well Design

DBS&A a Geo-Logic Company

02/14/2025 DB25.1378

Figure 7

S:\PROJECTS\DB25.1378_NMFA_TYRONE_WATER_AND_WW\CAD\PRODUCTION\WELL DIAGRAM_1.DWG

Appendix A

Water Rights Records

DBS&A
a Geo-Logic Company

APPLICATION TO APPROPRIATE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 75-11-1 NEW MEXICO STATUTES
(Three Acre Feet Per Annum)

'71 MAY 18 AM 8 52

39449 D - $ 1.00

STATE ENGINEER OFFICE
DISTRICT III
DEMING, N. MEX.

1. **Name and Address of Applicant:** **File No.** M-2922

John S. Hamilton, Jr.

Tyrone, New Mexico

2. **Describe well location under one of the following subheadings:**

a. SW ¼ SW ¼ XXXXXXXX¼ of Sec. 28 Twp. 18 S. Rge. 14 W. N. M. P. M., in Grant County.

b. Tract No. _____ of Map No. _____ of the _____ District.

c. Lot No. _____ of Block No. _____ of the _____ Subdivision, of record in _____ County.

d. (Describe location by direction and distance from known land marks.)

3. Give street address or route and box No. of property upon which well is to be located, if possible: _____

4. Name of driller, if known: _____

5. Approximate depth of well (if known) _____ feet; outside diameter of casing _____ inches.

6. Use of water (check appropriate box or boxes):

- [ ] Household, trees, lawn and non-commercial garden not to exceed 1 acre.
- [XX] Livestock watering.
- [ ] Drinking and sanitary purposes or the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.
- [ ] Prospecting, mining or drilling operations to discover or develop natural resources.
- [ ] Construction of public works, highways and roads.

If any of the last three were marked, give name and nature of business under Remarks. (Item 7)

STATE ENGINEER OFFICE
SANTA FE, N. M.
1971 MAY 20 AM 11:33

7. Remarks: This stock well will supplement the stock wells in the Redrock area adjudicated to the Mangas Cattle Company and will result in no additional consumptive use of water, * See reverse side

I, John S. Hamilton, Jr., affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

John S. Hamilton Jr., Applicant

By: _____ Date: May 17, 1971

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to the specific conditions numbered 4 on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before May 30, 1972.

S. E. Reynolds, State Engineer

By: L. T. Putnam
L. T. Putnam
Supervisor, District III

Date: May 18, 1971

GENERAL CONDITIONS OF APPROVAL

A. The maximum amount of water that may be appropriated under this permit is 3 acre feet in any period of one year.

B. Well shall be drilled only by a driller licensed in the State of New Mexico in accordance with Section 75-11-13 New MexicoStatutes. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 75-11-13).

C. Driller's log must be filed in office of the State Engineer within 10 days after well is drilled or driven. Failure to file log within that time shall result in automatic cancellation of the permit. Upon request of the permittee, log forms will be provided by the State Engineer.

D. Diameter of casing limited to 7 inch outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.

E. If the well under this permit is at any time used to serve more than one household, livestock in a commercial feed lot operation, or any other commercial purpose, the permittee shall comply with Specific Condition of Approval number 5(b).

SPECIFIC CONDITIONS OF APPROVAL (Applicable only when so indicated on the other side of this form)

1. Depth of well in no event to exceed the thickness of the valley fill or Ogallala formation.

2. Well to be constructed to artesian well specifications and State Engineer Office to be notified before casing is landed or cemented.

3. Appropriation and use of water under this permit limited for a definite period of not to exceed one year from the date of approval.

4. Limited to household, trees, lawn and non-commercial garden not to exceed one acre and/or stock use.

5. A totalizing meter approved by the State Engineer shall be installed on the discharge line before the first branch line prior to the appropriation of water and pumping records shall be submitted to the District Supervisor (a) for each calendar month, on or before the 30th day of the following month (b) on the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 30th day of January of the following year.

6. Well to be plugged upon completion of permitted use and plugging report filed within 10 days.

7. Final approval for the use of said well dependent upon a leakage test to be made by the State Engineer Office.

GENERAL INSTRUCTIONS

Application shall be executed in triplicate and forwarded with a $1.00 filing fee to the appropriate office of the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well to be retained for uses as indicated, an explanation (and file number, if possible) should be given under Remarks. (Item 7).

Applications for appropriation, well logs and request for information in the following basins should be addressed to the State Engineer at the office indicated:

Bluewater, Estancia, Rio Grande, and Sandia Basins
District No. 1, 505 Marquette N.W., Rm 1023, Albuquerque, N. Mex. 87106

Capitan, Carlsbad, Fort Sumner, Hondo, Jal, Lea, Penasco, Portales, and Roswell Basins
District No. 2, Box 1717, Roswell, New Mexico 88201

Animas, Gila-San Francisco, Hot Springs, Las Animas Creek, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon, and Virden Valley Basins
District No. 3, Box 844, Deming, New Mexico 88030

* Prior to the present time a spring has been situate on the above described land and it is proposed to further develop said spring through horizontal drilling.

This well Should be

GSF - ? - S to a

well in Subfile 31 #16290

or Subfile 223 #16290.

Field checks by personnel of

this office in 1987 were

unable to locate it,

2-13-89

FIELD CHECK REPORT

FILE NO. M-2922 DATE FIELD CHECKED: MARCH 22-1988

OWNER: FLYING A CATTLE CO FIELD CHECKED BY: PHILLIP KELIBLE

WELL LOCATION: 18.14.28.33

LAND LOCATION: SAME

REMARKS: THE PERMIT FOR THIS WELL HAD A NOTE SAYING "THIS WELL TO BE USED FOR SUPPLEMENTAL STOCK PURPOSES IN THE RED ROCK AREA"

THE GIVEN LOCATION WAS FOUND TO BE IN THE TYRONE TOWNSITE.

I ATTEMPTED TO LOCATE THIS WELL IN 18.18.28.33 FIGURING THE NUMBER FOR RANGE TO BE A TYPO. THIS LAND IS OWNED BY GRANT HARPER. HE STATED HE KNEW OF NO WELL OR ATTEMPT TO DRILL ONE IN THIS AREA OTHER THAN THOSE THAT HAD BEEN THERE PRIOR TO THE DATES ON THE WELL LOG.

I DID FURTHER SEARCHING TO NO AVAIL. I CONTACTED MR CONNER AS HIS LAND ABUTS THE FLYING "A"S PROPERTY. HE STATED THAT ABOUT THIS TIME MR BOONE HAD A MR. KINCAID DRILL A 8" WELL IN SEC 35. WE INVESTIGATED THIS AND FOUND AN 8" WELL ON THE N. SIDE OF HOUSE CANYON 350' S OF SECTION LINE FENCE OR IN 18.18.35.212 WHICH FITS GSF-1569-S PERFECTLY. MR CONNER FURTHER OFFERED THAT HE KNEW NO OTHER WELL OR ATTEMPTS TO DRILL A WELL THAT FIT THE DESCRIPTION ON THE LOG OR PERMIT.

I COULD NOT LOCATE WELL M-2922 IN 18.18.28

Revised April, 1974

IMPORTANT – READ INSTRUCTIONS BEFORE FILLING OUT THIS FORM

'80 DEC 24 AM 8 46

87524 D - $1.00

CHANGE OF OWNERSHIP OF WATER RIGHT

STATE ENGINEER OFFICE DISTRICT II DEMING, N. MEX.

1. NAME OF WATER RIGHT OWNER OF RECORD JOHN S. HAMILTON, JR.
Mailing Address P.O. Box 2117
City and State Silver City, New Mexico 88061,
the owner and holder of a water right set forth in file number M-2922
of record in the office of the State Engineer has conveyed all (all or part) of said right to:

Name FLYING A CATTLE COMPANY
Mailing Address P.O. Box 810
City and State Silver City, New Mexico 88061

2. IRRIGATION: The conveyed water right is appurtenant to lands described as follows (describe only lands with actual water right and diversion as that amount of water measured at the well and/or farm headgate):

SUBDIVISION (District or Hydrographic Survey)	SECTION	TOWNSHIP (Map No.)	RANGE (Tract No.)	ACREAGE	DIVERSION (Acre Feet Per Annum)	PRIORITY
SW¼SW¼	28	18S	14W			
			TOTAL			

'81 JAN 26 PM 1 14 STATE ENGINEER SANTA FE, N.M.

OTHER: Purpose Stock Well; Amount _____ (acre feet per annum of diversion); Priority _____.

3. DESIGNATE WELLS TO ACCOMPANY THE CONVEYED RIGHT: (To be executed if conveyance involves only a part of a ground water right):

WELL FILE NO.	SUBDIVISION (District or Hydrographic Survey)	SECTION	TOWNSHIP (Map No.)	RANGE (Tract No.)

4. I HEREBY CONSENT TO A LAWFUL CHANGE IN THE PLACE AND/OR PURPOSE OF USE OF THE ABOVE-DESCRIBED WATER RIGHT: (To be executed if water right described above is a right for irrigation purposes and has been conveyed separate from the land to which it is appurtenant.)

The undersigned, being first duly sworn upon oath, deposes and says that he has read the foregoing statements and that the same are true to the best of his knowledge and belief.

OFFICIAL SEAL
Susan E. Penn
SUSAN E. PENN
NOTARY PUBLIC - NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires

John S. Hamilton Jr.
JOHN S. HAMILTON, JR.

Subscribed and sworn to before me this 15th day of December, A. D., 19 80

My commission expires: 11-29-82 Susan E. Penn Notary Public

INSTRUCTIONS

Change of ownership shall be filed in triplicate and executed either by conveyor (seller) or by the new owner and shall be accompanied by a filing fee of $1.00. If executed by the new owner it shall be accompanied by a certified copy of the deed or other instrument of conveyance.

FOR STATE ENGINEER USE ONLY

A _____ (warranty deed, other) from _____ to _____

was found by me to be recorded on the _____ day of _____, A. D., 19 _____ on page

_____ of Book No. _____ of record of _____ County.

By: _____ Date: _____

Date Received December 24, 1980 File No. M-2922

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

DEMING

S. E. REYNOLDS
STATE ENGINEER

January 23, 1981

ADDRESS CORRESPONDENCE TO:
P. O. BOX 844
DEMING, N. M. 88030

✓M-2922
FILES: 01572; LWD-G-0723 thru LWD-G-0726;
GSF-1579; GSF-1579-S; GSF-1569; GSF-1569-S;
Subfile 31, Cause #16290

GSF-1491; GSF-1491-S;
GSF-2089 thru GSF-2093
Subfile 223, Cause #16290

Flying A Cattle Company
% J. Wayne Woodbury
Attorney at Law
P. O. Box 857
Silver City, New Mexico 88061

Gentlemen:

Enclosed are your copies of Changes of Ownership of Water Rights, stating that you have acquired all rights numbered above.

Our records have been changed to show you as the owners of these rights.

Yours truly,

L. T. Putnam
Supervisor, District III

LTP:jp
Encls: 4 Changes of Owner.
cc: State Engineer

Credit $1.00 used for CO
M-2922 filed 12-24-80. JP

No. 87524 D

STATE ENGINEER
SANTA FE, NEW MEXICO

OFFICIAL RECEIPT

CONTROL NUMBER

DATE
January 20, 1981

FILE NO		AM'T REC'D	GW	SW	TOTAL
	GSF-2070(1); GSF-2073(1); GSF-2074(1); GSF-2076(1); GSF-2077(1); GSF-2081(1); GSF-2082(1); GSF-2083(1)	CASH			
		CHECK	16.00		16.00

BANK
American National Bank, Silver City

FOR PAYMENT AS INDICATED BELOW
Eight (8) Changes of Ownership and Seven (7) Non-consumptive Use Domestic Well Permits

NAME AND ADDRESS
J. Wayne Woodbury
Attorney at Law
P. O. Box 857

Silver City, New Mexico 88061

FOR USE BY ADMINISTRATIVE DIVISION

FOR USE BY SANTA FE OFFICE ONLY
WATER RIGHTS

DATE	EARNED		REFUND	TRANSCRIPT EXP.	BALANCE
	GW	SW			

60509 D - $1.00

READ INSTRUCTIONS ON BACK

Revised March 1972

'75 JUN 6 AM 9 01

APPLICATION TO APPROPRIATE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 75-11-1 NEW MEXICO STATUTES

STATE ENGINEER OFFICE
DISTRICT III
DEMING, N. MEX.

'75 JUN 9 PM 4 25

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501

TEST WELL

File No. M-4034

1. Name and Address of Applicant:

Exxon Company, U.S.A.
Minerals Department
P. O. Box 120

Denver, Colorado 80201

2. Describe well location under one of the following subheadings:

a. SW ¼ SE ¼ NW ¼ of Sec. 28 Twp. 18S Rge. 14W N. M. P. M., in Grant County.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____ Subdivision, recorded in _____ County.

d. X = _____ feet, Y = _____ feet, N. M. Coordinate System _____ Zone in the _____ Grant.

e. Give street address or route and box No. of property upon which well is to be located, or location by direction and distance from known landmarks _____

3. Approximate depth (if known) 900.0 feet; outside diameter of casing _____ inches.

Name of driller (if known) _____

4. Use of water (check appropriate box or boxes):

- [ ] Household, non-commercial trees, lawn and garden not to exceed 1 acre.
- [ ] Livestock watering.
- [ ] Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.
- [x] Prospecting, mining or drilling operations to discover or develop natural resources.
- [ ] Construction of public works, highways and roads.

If any of the last three were marked, give name and nature of business under Remarks. (Item 5)

5. Remarks: Well to be used for "drawdown" observation during pumping test of existing well located in NW ¼, SE ¼, NW ¼, Sec. 28, T 18S, R 14W.

I, J. D. Mancuso, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

Exxon Co. U.S.A., Applicant

By: J D Mancuso Date: June 4, 1975

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to the specific conditions numbered 6 on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before June 30, 1976.

S. E. Reynolds, State Engineer

By: L. T. Putnam
L. T. Putnam
Supervisor, District III

Date: June 6, 1975

File No. M-4034

GENERAL CONDITIONS OF APPROVAL

A. The maximum amount of water that may be appropriated under this permit is 3 acre feet in any calendar year.

B. The well shall be drilled only by a driller licensed in the State of New Mexico in accordance with Section 75-11-13 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 75-11-13).

C. Driller's log must be filed in the office of the State Engineer within 10 days after the well is drilled or driven. Failure to file the log within that time shall result in automatic cancellation of the permit. Log forms will be provided by the State Engineer upon request.

D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.

E. If the well under this permit is used at any time to serve more than one household, livestock in a commercial feed lot operation, or any other commercial purpose, the permittee shall comply with Specific Conditon of Approval number 5(b).

F. In the event this well is combined with other wells permitted under Section 75-11-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre feet per annum.

SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

1. Depth of the well shall not exceed the thickness of the (a) the valley fill or (b) Ogallala formation.
2. The well shall be constructed to artesian well specifications and the State Engineer Office shall be notified before casing is landed or cemented.
3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the State Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water and pumping records shall be submitted to the District Supervisor (a) for each calendar month, on or before the 30th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 30th day of January of the following year.
6. The well shall be plugged upon completion of the permitted use and a plugging report shall be filed in the office of the State Engineer within 10 days.
7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer Office.
8. Use shall be limited strictly to household and/or drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, garden, trees or use in any type of pool or pond is authorized under this permit.

INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be executed in triplicate and forwarded with a $1.00 filing fee to the appropriate office of the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and file number, if possible) should be given under Remarks. (Item 5.)

Applications for appropriation, well logs and request for information in the following basins should be addressed to the State Engineer at the office indicated;

Bluewater, Estancia, Rio Grande, and Sandia Basins
District No. 1, 505 Marquette NW, Room 1023, Albuquerque, New Mexico 87101

Capitan, Carlsbad, Fort Sumner, Hondo, Jal, Lea, Penasco, Portales, Roswell, and Upper Pecos Basins
District No. 2, Box 1717, Roswell, New Mexico 88201

Animas, Gila-San Francisco, Hot Springs, Las Animas Creek, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon, and Virden Valley Basins
District No. 3, Box 844, Deming, New Mexico 88030

Canadian River Basin
State Engineer Office, State Capitol, Bataan Memorial Bldg., Santa Fe, New Mexico 87501

1-8-92

Small Pipe

Steel plate with 3/4" hole

18.14.28.143

M-4034

1-8-92

Steelpipe

3/4" hole under rock

18S.14W.28.143

M-4034

'85 FEB 14 AM 8
STATE ENGINEER
DEMING, NM

Water Level Measurements in the Vicinity of M-4226

(All SEO measurements in feet below land surface)

Date	M-2707 (Billings)	M-2508 (Wischmann)	M-2903 (Gabby Hayes)	M-4034 (EGH-1)	M-4035 (EGH-2)
6-16-70			263.10		
11-17-70			260.80[a]		
8-26-74			256.30[a]		
7-9-75					280.30[a]
7-18-75					283.86[a]
7-31-75			255.61[a]		
12-1-76		81.36			
4-7-81			264.81		
2-9-82	123.57	57.87	241.18		
9-26-83	133.20	62.30[b]	249.82		262.20
10-26-83	124.10	81.30[b]	249.50		262.10
12-5-83	127.02	--[c]	248.97		263.26
12-30-83	126.97	--[c]	248.89		263.20
1-26-84	132.90[b]	56.76[b]	248.88		276.12
2-29-84	133.05	57.20[b]	248.90		276.10
3-28-84	132.93	56.80	248.80	272.58	275.80
4-26-84	132.96	56.81	248.85	272.61	275.83
5-24-84	132.98	--[c]	248.78	272.51	275.86
6-25-84	133.20	--[c]	248.90	272.74	276.30
7-25-84	133.25	--[c]	248.80	272.57	276.21
8-27-84	133.15	--[c]	248.55	272.53	276.25
8-30-84					275.64
9-24-84	133.13	--[c]	248.34	272.15	275.51
10-25-84	133.11	--[c]	248.11	272.86	275.36
11-27-84	133.08	--[c]	248.09	271.79	278.82
12-13-84			248.07	271.80	277.30
12-20-84	133.07	--[c]			
1-22-85	133.05	--[c]	247.65	271.44	274.83
Land Surface Elevation			5772.60	5796.21	5799.86

a Water level measurements reported by Exxon
b Well pumping
c Unable to measure, pumping. Pipe broken and splashing water

File No.	M-11819

NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, OR 72-12-1.3 NEW MEXICO STATUTES

125=
3-23754

For fees, see State Engineer website: http://www.ose.state.nm.us/

1. APPLICANT(S)

Name: Rhonda Thibedeau	Name:
Contact or Agent: check here if Agent ☐ Same	Contact or Agent: check here if Agent ☐
Mailing Address: 101 Windmill Ridge	Mailing Address:
City: Tyrone	City:
State: New Mexico Zip Code: 88065	State: Zip Code:
Phone: ☐ Home ☒ Cell Phone (Work): 970 361 4545	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): SandersonDale@rocketmail.com	E-mail (optional):

☐ Check here if existing well. Enter OSE File No. _____

2. WELL LOCATION Required: Coordinate location must be New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

STATE ENGINEERS OFFICE DEMING, NEW MEXICO MAY 27 2021

NM State Plane (NAD83) - In feet	NM West Zone ☐ NM Central Zone ☐ NM East Zone ☐	X (in feet): Y (in feet):				
UTM (NAD83) - In meters	UTM Zone 13N ☐ UTM Zone 12N ☐	Easting (in meters): Northing (in meters):				
Lat/Long (WGS84) - To 1/10th of second ☐ Check if seconds are decimal format	Lat: 32	deg	42	min	06.29	sec
	Long: 108	deg	16	min	35.85	sec

Other Location Information (complete the below, if applicable):

PLSS Quarters or Halves: NW1/4SW1/4NE1/4 Section: 34 Township: 18S Range: 14W

County: Grant

Land Grant Name (if applicable):

Lot No: Block No: Unit/Tract: Altered A Subdivision:

Hydrographic Survey: Map: Tract:

Other description relating well to common landmarks, streets, or other: 101 Windmill Ridge Rd

Well is on Land Owned by (Required): Rhonda L. Thibedeau

FOR OSE INTERNAL USE

Application for Permit, Form wr-01, Rev 10/29/2020

File No.: M-11819	Trn. No.: 698186	Receipt No.:
Well Tag ID No. (if applicable): 30587	Sub-Basin: M	Log Due Date: 6/30/2022

3. PURPOSE OF USE

- ☐ Domestic use for one household
- ☐ Livestock watering
- ☐ Domestic use for more than one household. Number of households _____ Complete and attach form WR-01m "MULTIPLE home-owner info"
- ☐ Drinking and sanitary uses that are incidental to the operations of a governmental, commercial, or non-profit facility
- ☐ Prospecting, mining or drilling operations to discover or develop natural resources
- ☐ Construction of public works, highways and roads
- ☒ Domestic use for one household and livestock watering
- ☐ Domestic use for multiple households and livestock watering _____ Complete and attach form WR-01m "MULTIPLE home-owner info"
- ☐ Domestic well to accompany a house or other dwelling unit constructed for sale
- ☐ New well (with new purpose)
- ☐ Amend purpose of use on existing well
- ☐ No change in purpose

4. WELL INFORMATION: CHECK THOSE THAT APPLY ☐ Existing Well ☐ Known Artesian

File Information: (If existing well, provide OSE no. & indicate below if well is to be replacement, repaired or deepened, or supplemental. If new well, leave blank, as OSE must assign no.)

OSE Well No.(If Existing)	New Well No. (provided by OSE) M-11819-POD1
Well Driller Name: Kuester Well Drilling	**Well Driller License Number:** WD 1486
Approximate Depth of Well (feet): 500	Outside Diameter of Well Casing (inches): 4 1/2

☐ Replacement well (List all existing wells if more than one):	☐ Repair or Deepen: ☐ Clean out well to original depth ☐ Deepen well from _____ to _____ ft. ☐ Other (Explain):	☐ Supplemental well (List OSE No. for all wells this will supplement):

5. ADDITIONAL STATEMENTS OR EXPLANATIONS (Use additional sheets if necessary)

need a well on property for domestic + livestock use
Hwy 90 S to McKinney Rd. to Old Ranch Rd. to Windmill Ridge Rd.

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Rhonda L. Thibedeau
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO
MAY 27 2021

Rhonda L. Thibedeau
Applicant Signature

Applicant Signature

ACTION OF THE OFFICE OF THE STATE ENGINEER (FOR OSE USE ONLY)

This application is approved subject to the attached general and specific conditions of approval.

Witness my hand and seal this 21st day of June 20 21, for the New Mexico State Engineer,

By: [signature]
Signature

Teresa Montellano/Domestic Well Technician
Print

FOR OSE INTERNAL USE

Well Tag ID Issued? ☒ Yes ☐ No

Application for Permit, Form wr-01, Rev 10/29/2020

File No.: M-11819	Trn No.: 698186	Well ID Tag No.: 30587

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (A thru R)

17-A The maximum combined diversion of all wells that may be appropriated under this permit is 3.000 acre-feet in any year (One acre-foot equals 325,851 gallons).

17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig; provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.

17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.

17-D The production casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.

17-E To request a change to the purpose of use of water authorized under this permit, the permittee shall file an application with the State Engineer.

17-F An application for a new 72-12-1.1 NMSA 2003 domestic well permit where the proposed point of diversion is to be located on the same legal lot of record as an operational 72-12-1.1 NMSA domestic well shall be treated as an application for a supplemental well and the combined diversion may not exceed the maximum annual diversion permitted.

17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.

17-H The drilling of the well and amount and uses of water permitted are subject to such limitations as may be imposed by a court or by lawful municipal or county ordinance which are more restrictive than the conditions of this permit and applicable State Engineer regulations.

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (Continued)

17-I The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

17-J The well shall be set back a minimum of 50 ft. from an existing well of other ownership unless a variance has been granted by the State Engineer. The State Engineer may grant a variance for a replacement well or to allow for maximum spacing of the well from a source of groundwater contamination. The well shall be set back from potential sources of contamination in accordance with federal, state, and local requirements.

17-K Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

17-L The permit is subject to cancellation for non-compliance with the conditions of approval or if otherwise not exercised in accordance with the terms of the permit.

17-M The right to divert water under this permit is subject to curtailment by priority administration as implemented by the State Engineer or a court.

17-N In the event of any change of ownership to this permit the new owner shall file a change of ownership form with the State Engineer in accordance with Section 72-1-2.1 NMSA 1978.

17-O This well permit shall automatically expire unless the well is completed and the well record is filed with the State Engineer within one year of the date of issuance of the permit.

17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

17-Q The State Engineer retains jurisdiction over this permit.

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (Continued)

17-R The State Engineer shall supply a well identification tag for the well driller to firmly affix to the well casing or cap with a steel band upon completion in accordance with Subsection M of 19.27.4.29 NMAC.
The permit holder is responsible for maintaining the well identification tag.

Well Tag(s) associated with this permit:
30587

SPECIFIC CONDITIONS OF APPROVAL

17-19 This permit authorizes the diversion of water for domestic use to serve a single household and livestock. The maximum combined total diversion of water under this permit shall not exceed 3.000 acre-feet per year.

17-18 Any diversion of water made in excess of the authorized maximum diversion amount shall be repaid with twice the amount of the over-diversion during the following calendar year. Repayment shall be made by either:
(a) reducing the diversion from the well that is the source of the over-diversion; or (b) acquiring or leasing a valid, existing consumptive use water right in an amount equal to the repayment amount and
submitting a plan for the proposed repayment during the following year to the State Engineer for approval.

LOG This permit will automatically expire unless the well M 11819 POD1 is completed and the well record filed on or before 06/30/2022.

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions listed above.

Witness my hand and seal this 21 day of Jun A.D., 2021

John R. D Antonio, Jr., P.E. , State Engineer

By: _____
Teresa Montellano
Domestic Well Technician
Mimbres Basin

PLAT OF SURVEY

of

AN ALTERATION OF PROPERTY BOUNDARIES OF TRACTS OF LAND SITUATE IN SECTION 34, T. 18S., R. 14W., N.M.P.M., GRANT COUNTY, NEW MEXICO

GRANT COUNTY APPROVAL FOR ALTERATION OF PROPERTY BOUNDARIES

The accompanying Plat and foregoing Property Boundary Alteration between existing tracts of Real Property within Grant County, New Mexico, represented hereon and described in the caption on this Plat is hereby approved and accepted by the Ordinance Officer of Grant County, New Mexico, with the provision that the Owners / Proprietors of the subject tracts have complied with administrative requirements as required by the 1997 Grant County Subdivision Regulations and the New Mexico Subdivision Act, Section 47-6-2J, Exemption #8 (Alteration of Property Boundaries).

this _____ day of _____, 20_____.

_____

_____

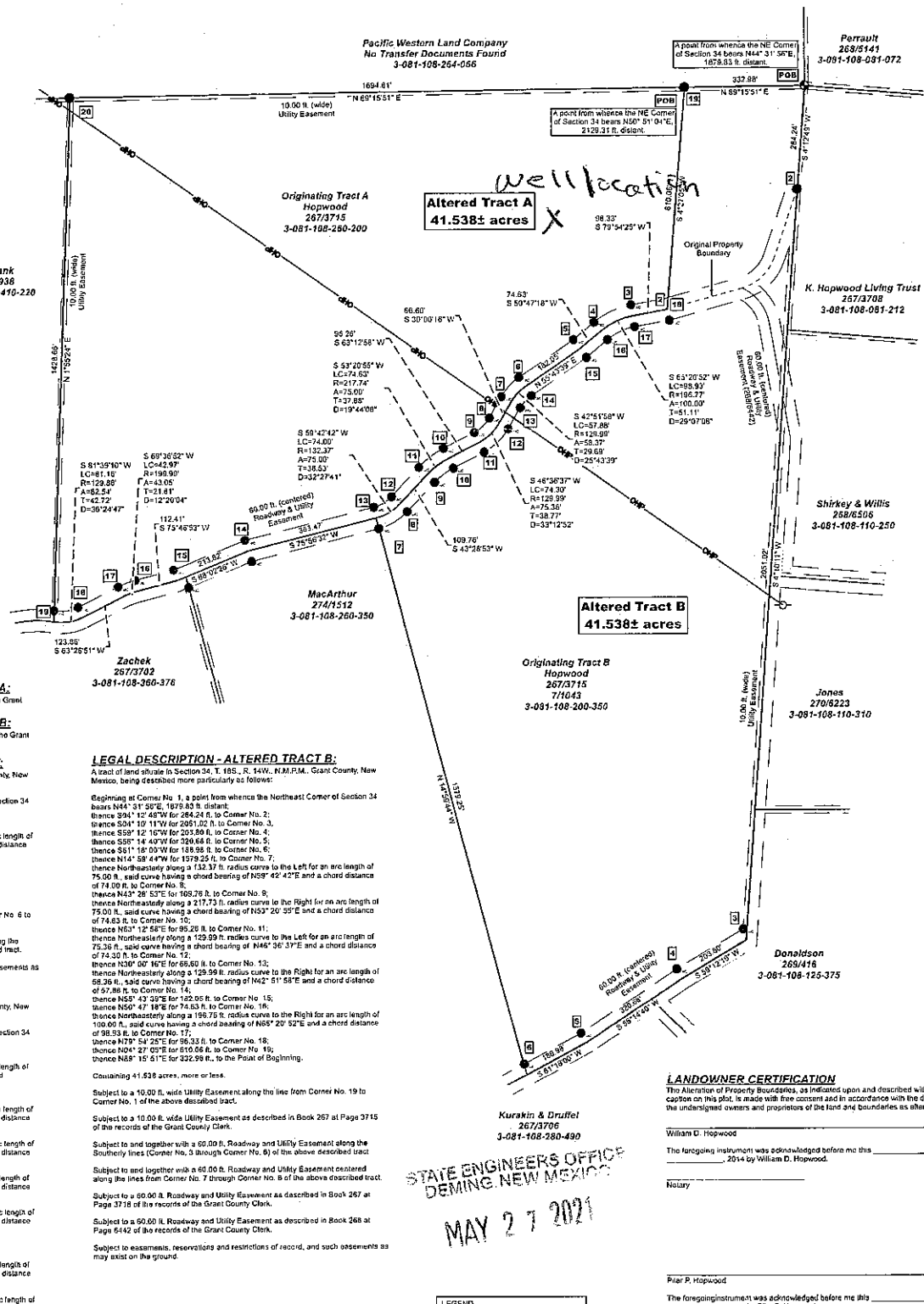
GRANT COUNTY TREASURER APPROVAL

This Land Division is in compliance with Senate Bill 406, 51st Legislature, State of New Mexico, First Session, 2013.

The taxes for the current year _____ are paid. No taxes are due until _____.

By: _____

Title: _____ Date: _____



LEGAL DESCRIPTION - ORIGINATING TRACT A:

Document of record located in Book 267 at Page 3715 of the records of the Grant County Clerk.

LEGAL DESCRIPTION - ORIGINATING TRACT B:

Document of record located in Plat Book 7 at Page 1043 of the records of the Grant County Clerk.

LEGAL DESCRIPTION - CONVEYANCE TRACT:

A tract of land situate in Section 34, T. 18S., R. 14W., N.M.P.M., Grant County, New Mexico, being described more particularly as follows:

Beginning at Corner No. 1, a point from whence the Northeast Corner of Section 34 bears N44° 31' 56"E, 1679.83 ft. distant;
thence S04° 12' 49"W for 264.24 ft. to Corner No. 2;
thence S16° 47' 14"W for 199.31 ft. to Corner No. 3;
thence Southwesterly along a 129.99 ft. radius curve to the Right for an arc length of 126.67 ft., said curve having a chord bearing of S46° 42' 08"W, and chord distance of 121.72 ft. to Corner No. 4;
thence S74° 37' 02"W for 314.32 ft. to Corner No. 5;
thence N04° 27' 05"E for 610.06 ft. to Corner No. 6;
thence N89° 15' 51"E for 332.98 ft., to the Point of Beginning.

Containing 4.118 acres, more or less.

Subject to a 10.00 ft. wide Utility Easement along the Northerly line (Corner No. 6 to Corner No. 1) of the above described tract.

Subject to and together with a 60.00 ft. Roadway and Utility Easement along the Southerly lines (Corner No. 2 through Corner No. 5) of the above described tract.

Subject to easements, reservations and restrictions of record, and such easements as may exist on the ground.

LEGAL DESCRIPTION - ALTERED TRACT A:

A tract of land situate in Section 34, T. 18S., R. 14W., N.M.P.M., Grant County, New Mexico, being described more particularly as follows:

Beginning at Corner No. 1, a point from whence the Northeast Corner of Section 34 bears N50° 51' 04"E, 2129.31 ft. distant;
thence S04° 27' 05"W for 610.06 ft. to Corner No. 2;
thence S79° 54' 25"W for 98.33 ft. to Corner No. 3;
thence Southwesterly along a 156.77 ft. radius curve to the Left for an arc length of 100.00 ft., said curve having a chord bearing of S65° 29' 52"W, and a chord distance of 98.93 ft. to Corner No. 4;
thence S50° 47' 18"W for 74.63 ft. to Corner No. 5;
thence S59° 43' 39"W for 182.05 ft. to Corner No. 6;
thence Southwesterly along a 129.99 ft. radius curve to the Left for an arch length of 58.37 ft., said curve having a chord bearing of S42° 51' 58"W, and a chord distance of 57.88 ft. to Corner No. 7;
thence S30° 00' 16"W for 66.60 ft. to Corner No. 8;
thence Southwesterly along a 129.99 ft. radius curve to the Right for an arc length of 75.36 ft., said curve having a chord bearing of S46° 36' 37"W, and a chord distance of 74.30 ft. to Corner No. 9;
thence S63° 12' 56"W for 95.26 ft. to Corner No. 10;
thence Southwesterly along a 217.74 ft. radius curve to the Left for an arc length of 75.00 ft., said curve having a chord bearing of S53° 20' 55"W, and a chord distance of 74.63 ft. to Corner No. 11;
thence S43° 28' 53"W for 109.76 ft. to Corner No. 12;
thence Southwesterly along a 132.37 ft. radius curve to the Right for an arc length of 75.00 ft., said curve having a chord bearing of S59° 42' 42"W, and a chord distance of 74.00 ft. to Corner No. 13;
thence S75° 56' 32"W for 363.47 ft. to Corner No. 14;
thence S68° 02' 26"W for 213.82 ft. to Corner No. 15;
thence S75° 46' 53"W for 112.41 ft. to Corner No. 16;
thence Southwesterly along a 199.99 ft. radius curve to the Left for an arc length of 43.05 ft., said curve having a chord bearing of S69° 26' 52"W, and a chord distance of 42.97 ft. to Corner No. 17;
thence S63° 26' 51"W for 123.86 ft. to Corner No. 18;
thence Southwesterly along a 129.58 ft. radius curve to the Right for an arc length of 82.54 ft., said curve having a chord bearing of S81° 39' 10"W, and a chord distance of 81.16 ft. to Corner No. 19;
thence N01° 55' 24"E for 1428.66 ft. to Corner No. 20;
thence N89° 15' 51"E for 1694.81 ft., to the Point of Beginning.

Containing 41.538 acres, more or less.

Subject to a 10.00 ft. wide Utility Easement along the Westerly and Northerly lines (Corner 20 through Corner No. 1) of the above described tract.

Subject to and together with a 60.00 ft. Roadway and Utility Easement along the Southerly lines (Corner No. 2 through Corner No. 19) of the above described tract.

Subject to easements, reservations and restrictions of record, and such easements as may exist on the ground.

LEGAL DESCRIPTION - ALTERED TRACT B:

A tract of land situate in Section 34, T. 18S., R. 14W., N.M.P.M., Grant County, New Mexico, being described more particularly as follows:

Beginning at Corner No. 1, a point from whence the Northeast Corner of Section 34 bears N44° 31' 56"E, 1679.83 ft. distant;
thence S04° 12' 49"W for 264.24 ft. to Corner No. 2;
thence S04° 10' 11"W for 2051.02 ft. to Corner No. 3;
thence S59° 12' 16"W for 203.80 ft. to Corner No. 4;
thence S56° 14' 40"W for 320.68 ft. to Corner No. 5;
thence S51° 18' 05"W for 189.98 ft. to Corner No. 6;
thence N14° 58' 44"W for 1579.25 ft. to Corner No. 7;
thence Northeasterly along a 132.37 ft. radius curve to the Left for an arc length of 75.00 ft., said curve having a chord bearing of N59° 42' 42"E and a chord distance of 74.00 ft. to Corner No. 8;
thence N43° 28' 53"E for 109.76 ft. to Corner No. 9;
thence Northeasterly along a 217.73 ft. radius curve to the Right for an arc length of 75.00 ft., said curve having a chord bearing of N53° 20' 55"E and a chord distance of 74.63 ft. to Corner No. 10;
thence N63° 12' 56"E for 95.26 ft. to Corner No. 11;
thence Northeasterly along a 129.99 ft. radius curve to the Left for an arc length of 75.36 ft., said curve having a chord bearing of N46° 36' 37"E and a chord distance of 74.30 ft. to Corner No. 12;
thence N30° 00' 16"E for 66.60 ft. to Corner No. 13;
thence Northeasterly along a 129.99 ft. radius curve to the Right for an arc length of 58.36 ft., said curve having a chord bearing of N42° 51' 58"E and a chord distance of 57.88 ft. to Corner No. 14;
thence N55° 43' 39"E for 182.05 ft. to Corner No. 15;
thence N50° 47' 18"E for 74.63 ft. to Corner No. 16;
thence Northeasterly along a 156.76 ft. radius curve to the Right for an arc length of 100.00 ft., said curve having a chord bearing of N65° 29' 52"E and a chord distance of 98.93 ft. to Corner No. 17;
thence N79° 54' 25"E for 98.33 ft. to Corner No. 18;
thence N04° 27' 05"E for 610.06 ft. to Corner No. 19;
thence N89° 15' 51"E for 332.98 ft., to the Point of Beginning.

Containing 41.538 acres, more or less.

Subject to a 10.00 ft. wide Utility Easement along the line from Corner No. 19 to Corner No. 1 of the above described tract.

Subject to a 10.00 ft. wide Utility Easement as described in Book 267 at Page 3715 of the records of the Grant County Clerk.

Subject to and together with a 60.00 ft. Roadway and Utility Easement along the Southerly lines (Corner No. 3 through Corner No. 6) of the above described tract

Subject to and together with a 60.00 ft. Roadway and Utility Easement centered along the lines from Corner No. 7 through Corner No. 8 of the above described tract.

Subject to a 60.00 ft. Roadway and Utility Easement as described in Book 267 at Page 3718 of the records of the Grant County Clerk.

Subject to a 60.00 ft. Roadway and Utility Easement as described in Book 268 at Page 6442 of the records of the Grant County Clerk.

Subject to easements, reservations and restrictions of record, and such easements as may exist on the ground.

LANDOWNER CERTIFICATION

The Alteration of Property Boundaries, as indicated upon and described within the caption on this plat, is made with free consent and in accordance with the desire of the undersigned owners and proprietors of the land and boundaries as altered.

_____
William D. Hopwood

The foregoing instrument was acknowledged before me this _____ of _____, 2014 by William D. Hopwood.

_____
Notary

_____
Pilar P. Hopwood

The foregoing instrument was acknowledged before me this _____ of _____, 2014 by Pilar P. Hopwood

_____
Notary

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO
MAY 27 2021

SURVEYOR'S CERTIFICATE:

I, William Ulric Miller, New Mexico Registered Professional Surveyor License No. 8893, do hereby certify that this boundary alteration plat and the actual survey on the ground upon which it is based was performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico in effect at the time which it was performed; and the same is true and correct to the best of my knowledge and belief.

William Ulric Miller — 12/15/2014
William Ulric Miller, L.S. 8893 — Date

WILLIAM ULRIC MILLER — P.S. 8893 — NEW MEXICO — PROFESSIONAL SURVEYOR

0 200' 400'

LEGEND

- Power Pole
- Set Rebar With Yellow Plastic Cap Marked 8893 MILLER
- Set Witness Corner, A Rebar With Yellow Plastic Cap Marked 8893 MILLER
- Found Rebar With Aluminum Cap Marked 9435 TROUTMAN

NOTES

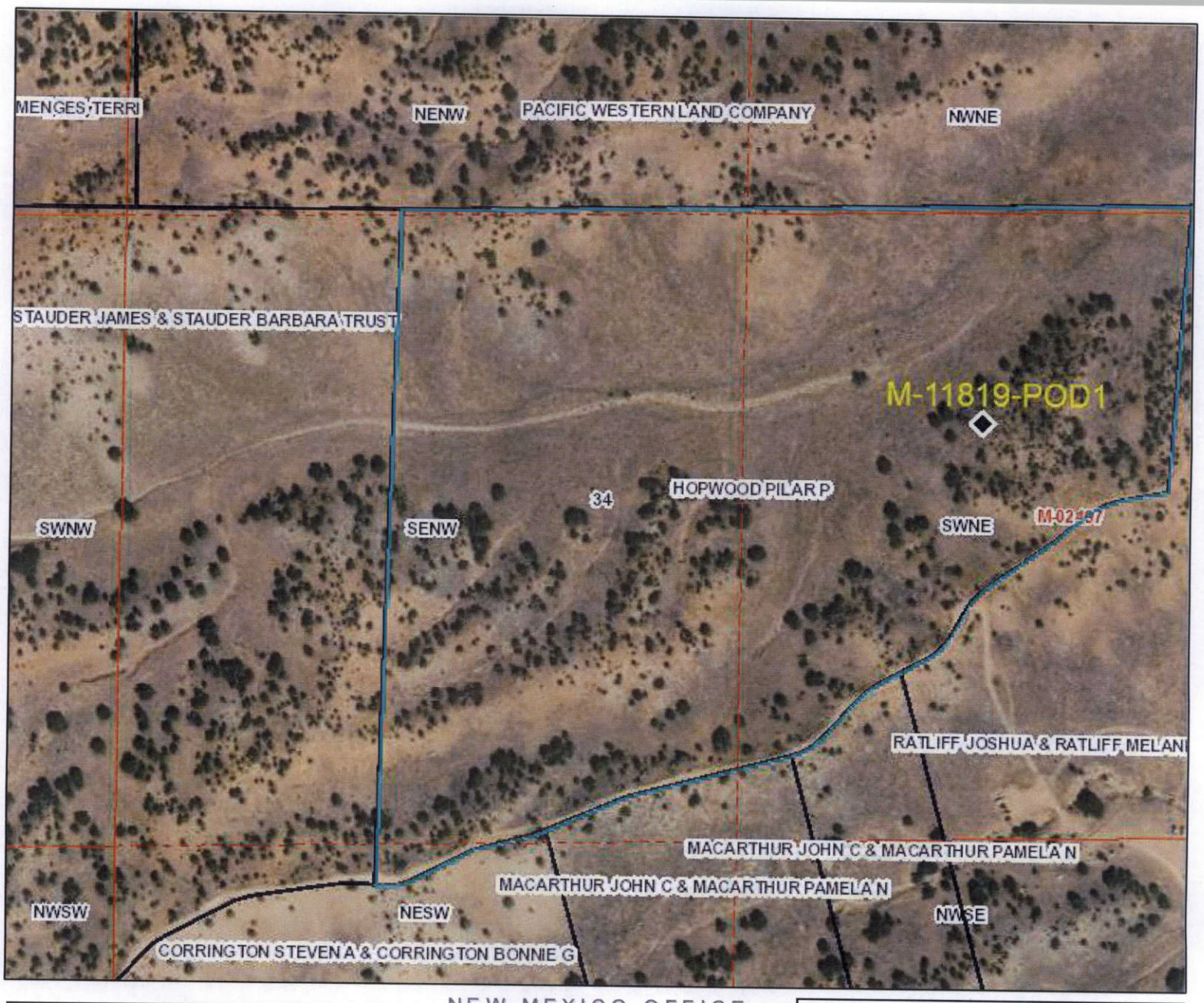
1. Basis of Bearings is New Mexico Coordinate System of 1983, West Zone, Grid North.
2. All distances reflect ground distance in U.S. Survey feet.

FILE NAME		
14-315 Hopwood S 34 T 18 R 14.trv		
SCALE	DATE	DRAWN BY
200 Ft/in	12-20-2018	Bill Miller
JOB	REVISION	SHEET
14-315	1/1	1/1

INDEXING INFO. FOR COUNTY CLERK
Township: 18 South
Range: 14 West
Section: 34
Subdivision: N/A
Owner: Hopwood, William D. & Pilar P.
UPC: 3-081-108-260-200

Z3 Planners & Surveyors L.L.C.
3431 Highway 180 East • 575.388.2232
Silver City, New Mexico 88061

Traverse PC



Coordinates

UTM - NAD 83 (m) - Zone 12

Easting 755300.140

Northing 3621502.379

State Plane - NAD 83 (f) - Zone W

Easting 2586734.957

Northing 619314.734

Degrees Minutes Seconds

Latitude 32 : 42 : 6.290000

Longitude -108 : 16 : 35.850000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

N

1:4,514

ft 0 90 180 360

Image Info
Source: Maxar
Date: 10/10/2020
Resolution (m):0.5
Accuracy (m): 5

Spatial Information

OSE Administrative Area: Grant
County: Grant
Groundwater Basin: Mimbres
Abstract Area:M

Sub-Basin: Mimbres

Land Grant: Not in Land Grant
Restrictions:
NA

PLSS Description

SENWSWNE Qtr of Sec 34 of 018S 014W

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

◆ Coord Search Location

OSE District Boundary

Counties

New Mexico State Trust Lands

Subsurface Estate

Surface Estate

Both Estates

Bernalillo County Parcels 2020

Catron County Parcels 2020

POD Information

Owner: Thibedeau
File Number: M-11819-POD1
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: DOMESTIC/STOCK

Teresa 6/21/20

Reasonable efforts have been made by the New Mexico Department of Homeland Security & Emergency Management (DHSEM) to verify that these maps accurately interpret the source data in their preparation, however, a degree of error is inherent in all maps, and these maps may contain omissions and errors in scale, resolution, rectification, position and accuracy. developers must ...

SF-1 SHORT FORM WARRANTY DEED - Rev. 11/92 New Mexico Statutory Form

WARRANTY DEED

Pilar P. Hopwood, a single person, for consideration paid, grantS to Rhonda L. Thibedeau, a single person whose address is 548 Meeker St., Delta, CO 81416, the following described real estate in Grant County, New Mexico:

SEE ATTACHED EXHIBIT 'A'

SUBJECT TO ANY EASEMENTS, RESERVATIONS AND RESTRICTIONS OF RECORD.

with warranty covenants.

WITNESS my hand and seal this 21 day of April, 2021.

_____(Seal) _____(Seal)
Pilar P. Hopwood

_____(Seal) _____(Seal)

ACKNOWLEDGMENT FOR NATURAL PERSONS

STATE OF NEW MEXICO }
SS.
COUNTY OF GRANT

This instrument was acknowledged before me on this 21 day of April, 2021, by Pilar P. Hopwood, a single person.

My commission expires:
(Seal)

Notary Public

FOR RECORDER'S USE ONLY

OFFICIAL SEAL
Marissa A. Castrillo
NOTARY PUBLIC - State of New Mexico
My Commission Expires

202101790 B: 283 P: 1790 Pgs: 2 WD
This instrument was recorded on 04/21/2021 02:59:44 PM
Marisa Castrillo, County Clerk, Grant County NM
Deputy - rzamarripa

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO
MAY 27 2021

EXHIBIT 'A'

Legal Description – Altered Tract A:

A tract of land situate in Section 34, T. 18S., R. 14W., N.M.P.M., Grant County, New Mexico, being described more particularly as follows:

Beginning at Corner No. 1, a point from whence the Northeast Corner of Section 34 bears N50° 51' 04"E, 2129.31 ft. distant;
thence S04° 27' 05"W for 610.06 ft. to Corner No. 2;
thence S79° 54' 25"W for 96.33 ft. to Corner No. 3;
thence Southwesterly along a 196.77 ft. radius curve to the Left for an arc length of 100.00 ft., said curve having a chord bearing of S65° 20' 52"W, and a chord distance of 98.93 ft. to Corner No. 4;
thence S50° 47' 18"W for 74.63 ft. to Corner No. 5;
thence S55° 43' 39"W for 182.05 ft. to Corner No. 6;
thence Southwesterly along a 129.99 ft. radius curve to the Left for an arch length of 58.37 ft., said curve having a chord bearing of S42° 51' 58"W, and a chord distance of 57.88 ft. to Corner No. 7;
thence S30° 00' 16"W for 66.60 ft. to Corner No. 8;
thence Southwesterly along a 129.99 ft. radius curve to the Right for an arc length of 75.36 ft., said curve having a chord bearing of S46° 36' 37"W, and a chord distance of 74.30 ft. to Corner No. 9;
thence S63° 12' 58"W for 95.26 ft. to Corner No. 10;
thence Southwesterly along a 217.74 ft. radius curve to the Left for an arc length of 75.00 ft., said curve having a chord bearing of S53° 20' 55"W, and a chord distance of 74.63 ft. to Corner No. 11;
thence S43° 28' 53"W for 109.76 ft. to Corner No. 12;
thence Southwesterly along a 132.37 ft. radius curve to the Right for an arc length of 75.00 ft., said curve having a chord bearing of S59° 42' 42"W, and a chord distance of 74.00 ft. to Corner No. 13;
thence S75° 56' 32"W for 363.47 ft. to Corner No. 14;
thence S68° 02' 26"W for 213.82 ft. to Corner No. 15;
thence S75° 46' 53"W for 112.41 ft. to Corner No. 16;
thence Southwesterly along a 199.99 ft. radius curve to the Left for an arc length of 43.05 ft., said curve having a chord bearing of S69° 36' 52"W, and a chord distance of 42.97 ft. to Corner No. 17;
thence S63° 26' 51"W for 123.86 ft. to Corner No. 18;
thence Southwesterly along a 129.88 ft. radius curve to the Right for an arc length of 82.54 ft., said curve having a chord bearing of S81° 39' 10"W, and a chord distance of 81.16 ft. to Corner No. 19;
thence N01° 55' 24"E for 1428.66 ft. to Corner No. 20;
thence N89° 15' 51"E for 1694.81 ft., to the Point of Beginning.

Containing 41.538 acres, more or less.

Subject to a 10.00 ft. wide Utility Easement along the Westerly and Northerly lines (Corner 19 through Corner No. 1) of the above described tract.

Subject to and together with a 60.00 ft. Roadway and Utility Easement along the Southerly lines (Corner No. 2 through Corner No. 19) of the above described tract.

Subject to easements, reservations and restrictions of record, and such easements as may exist on the ground.

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO
MAY 27 2021

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

John R. D'Antonio Jr., P.E.
State Engineer

321 W. Spruce St.
Deming, New Mexico 88030
PHONE: (575) 546-2851
FAX: (575) 546-2290

June 21, 2021

File: M-11819

Rhonda Thibedeau
101 Windmill Ridge
Tyrone, NM 88065

Greetings:

Enclosed is your copy of Domestic/Stock Well Permit M-11819-POD1, which has been approved.

Well Record shall be filed in this office within twenty (20) days after completion of drilling.

This permit will expire June 30, 2022, unless the well is drilled and the Well Record filed in this office on or before that date.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By: TMont
Teresa Montellano
Domestic Well Technician
Mimbres Basin

TM:tm
Encl: Approved permit
cc: State Engineer
Kuester Well Drilling

File No. M-11898

NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, OR 72-12-1.3 NEW MEXICO STATUTES

For fees, see State Engineer website: http://www.ose.state.nm.us/

125'
3-24252

1. APPLICANT(S)

Name: Cliff B. Boger	Name:
Contact or Agent: Same — check here if Agent ☐	Contact or Agent: — check here if Agent ☐
Mailing Address: 238 S. Ridge Rd.	Mailing Address:
City: Silver City	City:
State: NM Zip Code: 88061	State: Zip Code:
Phone: ☐ Home ☒ Cell Phone (Work): 575-888-1129	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): Cliff9175@gmail.com	E-mail (optional):

☐ Check here if existing well. Enter OSE File No. _____

2. WELL LOCATION **Required: Coordinate location must be New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.**

NM State Plane (NAD83) - In feet	NM West Zone ☐ NM Central Zone ☐ NM East Zone ☐	X (in feet): Y (in feet):				
UTM (NAD83) - In meters	UTM Zone 13N ☐ UTM Zone 12N ☐	Easting (in meters): Northing (in meters):				
Lat/Long (WGS84) - To 1/10th of second ☐ Check if seconds are decimal format	Lat: 32	deg	43	min	22.45	sec
	Long: 108	deg	16	min	07.49	sec

Other Location Information (complete the below, if applicable):
PLSS Quarters or Halves: SW 1/4 SW 1/4 SW 1/4 Section: 23 Township: 18S Range: 14W

County: Grant

Land Grant Name (if applicable):

Lot No: Block No: Unit/Tract: Subdivision:

Hydrographic Survey: Map: Tract:

Other description relating well to common landmarks, streets, or other:
238 S. Ridge Rd.

Well is on Land Owned by (Required): Cliff B. Boger

FOR OSE INTERNAL USE — Application for Permit, Form wr-01, Rev 10/29/2020

File No.: M-11898	Trn. No.: 725222	Receipt No.: 3-24252
Well Tag ID No. (if applicable): 301AE	Sub-Basin: M	Log Due Date: 5/31/2022

APR 28 2022
STATE ENGINEERS OFFICE
DEMING, NEW MEXICO

3. PURPOSE OF USE

- [x] Domestic use for one household
- [ ] Livestock watering
- [ ] Domestic use for more than one household. Number of households _____ Complete and attach form WR-01m "MULTIPLE home-owner info"
- [ ] Drinking and sanitary uses that are incidental to the operations of a governmental, commercial, or non-profit facility
- [ ] Prospecting, mining or drilling operations to discover or develop natural resources
- [ ] Construction of public works, highways and roads
- [ ] Domestic use for one household and livestock watering
- [ ] Domestic use for multiple households and livestock watering _____ Complete and attach form WR-01m "MULTIPLE home-owner info"
- [ ] Domestic well to accompany a house or other dwelling unit constructed for sale
- [ ] New well (with new purpose)
- [ ] Amend purpose of use on existing well
- [ ] No change in purpose

4. WELL INFORMATION: CHECK THOSE THAT APPLY ☐ Existing Well ☐ Known Artesian

File Information: (If existing well, provide OSE no. & indicate below if well is to be replacement, repaired or deepened, or supplemental. If new well, leave blank, as OSE must assign no.)

OSE Well No.(If Existing)	New Well No. (provided by OSE)
Well Driller Name: Kuester Well Drilling	**Well Driller License Number:** WD 1486
Approximate Depth of Well (feet): 600	Outside Diameter of Well Casing (inches): 4 1/2

☐ Replacement well (List all existing wells if more than one):	☐ Repair or Deepen: ☐ Clean out well to original depth ☐ Deepen well from _____ to _____ ft. ☐ Other (Explain):	☐ Supplemental well (List OSE No. for all wells this will supplement):

5. ADDITIONAL STATEMENTS OR EXPLANATIONS (Use additional sheets if necessary)

2385 Ridge Rd. off Hwy 90 S,
no well on property. Wants well for domestic use

ACKNOWLEDGEMENT

I, We (name of applicant(s)), CLIFF B. Boyer
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

CLIFF B. Boyer Cliff B. Boyer
Applicant Signature Applicant Signature

ACTION OF THE OFFICE OF THE STATE ENGINEER (FOR OSE USE ONLY)

This application is approved subject to the attached general and specific conditions of approval.

Witness my hand and seal this 5th day of MAY 20 22, for the New Mexico State Engineer,

By: Donna Hernandez Donna Hernandez - Water Resources Professional II
Signature Print

FOR OSE INTERNAL USE

Well Tag ID Issued? ☑ Yes ☐ No Application for Permit, Form wr-01, Rev 10/29/2020

File No.: M-11898	Trn No.: 725222	Well ID Tag No.: 301 AE

APR 28 2022

STATE ENGINEERS OFFICE
DEMING NEW MEXICO

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (A thru S)

17-A The maximum combined diversion of all wells that may be appropriated under this permit is 1.000 acre-feet in any year (One acre-foot equals 325,851 gallons).

17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig; provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.

17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.

17-D The production casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.

17-E To request a change to the purpose of use of water authorized under this permit, the permittee shall file an application with the State Engineer.

17-F An application for a new 72-12-1.1 NMSA 2003 domestic well permit where the proposed point of diversion is to be located on the same legal lot of record as an operational 72-12-1.1 NMSA domestic well shall be treated as an application for a supplemental well and the combined diversion may not exceed the maximum annual diversion permitted.

17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.

17-H The drilling of the well and amount and uses of water permitted are subject to such limitations as may be imposed by a court or by lawful municipal or county ordinance which are more restrictive than the conditions of this permit and applicable State Engineer regulations.

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (Continued)

17-I The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

17-J The well shall be set back a minimum of 50 ft. from an existing well of other ownership unless a variance has been granted by the State Engineer. The State Engineer may grant a variance for a replacement well or to allow for maximum spacing of the well from a source of groundwater contamination. The well shall be set back from potential sources of contamination in accordance with federal, state, and local requirements.

17-K Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

17-L The permit is subject to cancellation for non-compliance with the conditions of approval or if otherwise not exercised in accordance with the terms of the permit.

17-M The right to divert water under this permit is subject to curtailment by priority administration as implemented by the State Engineer or a court.

17-N In the event of any change of ownership to this permit the new owner shall file a change of ownership form with the State Engineer in accordance with Section 72-1-2.1 NMSA 1978.

17-O This well permit shall automatically expire unless the well is completed and the well record is filed with the State Engineer within one year of the date of issuance of the permit.

17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

17-Q The State Engineer retains jurisdiction over this permit.

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (Continued)

17-R The State Engineer shall supply a well identification tag for the well driller to firmly affix to the well casing or cap with a steel band upon completion in accordance with Subsection M of 19.27.4.29 NMAC.
The permit holder is responsible for maintaining the well identification tag.

Well Tag(s) associated with this permit:
301AE

GENERAL CONDITIONS OF APPROVAL (A thru S)

17-S Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.

SPECIFIC CONDITIONS OF APPROVAL

17-11 This permit authorizes the diversion of water for domestic use to serve a single household. The total diversion of water under this permit shall not exceed 1.000 acre-feet per year. The diversion of water for domestic use may include the watering of non-commercial trees, lawn and garden not to exceed one acre.

17-18 Any diversion of water made in excess of the authorized maximum diversion amount shall be repaid with twice the amount of the over-diversion during the following calendar year. Repayment shall be made by either:
(a) reducing the diversion from the well that is the source of the over-diversion; or (b) acquiring or leasing a valid, existing consumptive use water right in an amount equal to the repayment amount and
submitting a plan for the proposed repayment during the following year to the State Engineer for approval.

LOG This permit will automatically expire unless the well M 11898 POD1 is completed and the well record filed on or before 05/31/2023.

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions listed above.

Witness my hand and seal this 05 day of May A.D., 2022

Mike A. Hamman, P.E., State Engineer

By: Donna Hernandez
Water Resources Professional II

Coordinates

UTM - NAD 83 (m) - Zone 12

Easting 755978.374

Northing 3623867.706

State Plane - NAD 83 (f) - Zone W

Easting 2589189.849

Northing 627001.431

Degrees Minutes Seconds

Latitude 32 : 43 : 22.450000

Longitude -108 : 16 : 7.490000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

N

1:2,257

ft

0 45 90 180

Image Info
Source: Maxar
Date: 10/10/2020
Resolution (m):0.5
Accuracy (m): 5

Spatial Information

OSE Administrative Area: Grant
County: Grant
Groundwater Basin: Mimbres
Abstract Area:Mimbres River

Sub-Basin: Mimbres

Land Grant: Not in Land Grant
Restrictions:
NA

PLSS Description

NWSWSWSW Qtr of Sec 23 of 018S 014W

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Coord Search Location

GIS WATERS PODs

Active

OSE District Boundary

New Mexico State Trust Lands

Subsurface Estate

Bernalillo County Parcels 2021
Catron County Parcels 2021
Chaves County Parcels 2021
Cibola County Parcels 2021
Colfax County Parcels 2021
Curry County Parcels 2021
De Baca County Parcels 2021
Doña Ana County Parcels 2021
Eddy County Parcels 2021
Grant County Parcels 2021
Harding County Parcels 2021
Hidalgo County Parcels 2021
Guadalupe County Parcels 2021
Lea County Parcels 2021
Lincoln County Parcels 2021
Los Alamos County Parcels 2021
Luna County Parcels 2021
McKinley County Parcels 2021
Mora County Parcels 2021
Otero County Parcels 2021
Quay County Parcels 2021
Rio Arriba County Parcels 2021
Roosevelt County Parcels 2021
Sandoval County Parcels 2021
San Juan County Parcels 2021
San Miguel County Parcels 2021
Santa Fe County Parcels 2021

POD Information

Owner: Boger
File Number: M-11898
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: Domestic

Donna 5/5/202

Reasonable efforts have been made by the New Mexico Department of Homeland Security & Emergency Management (DHSEM) to verify that these maps accurately interpret the source data in their preparation, however, a degree of error is inherent in all maps, and the same may contain omissions and errors in scale, resolution, rectification, position and accuracy. DHSEM makes no warranty, express or implied, as to the accuracy, completeness, or suitability for any purpose of the information provided on these maps.

PLAT OF SURVEY

of

A tract of land located within the Southwest quarter of the Southwest quarter (SW1/4SW1/4) of Section Twenty-three (23), Township Eighteen (18) South, Range Fourteen (14) West, N.M.P.M., Grant County, New Mexico

(238 Ridge Road)

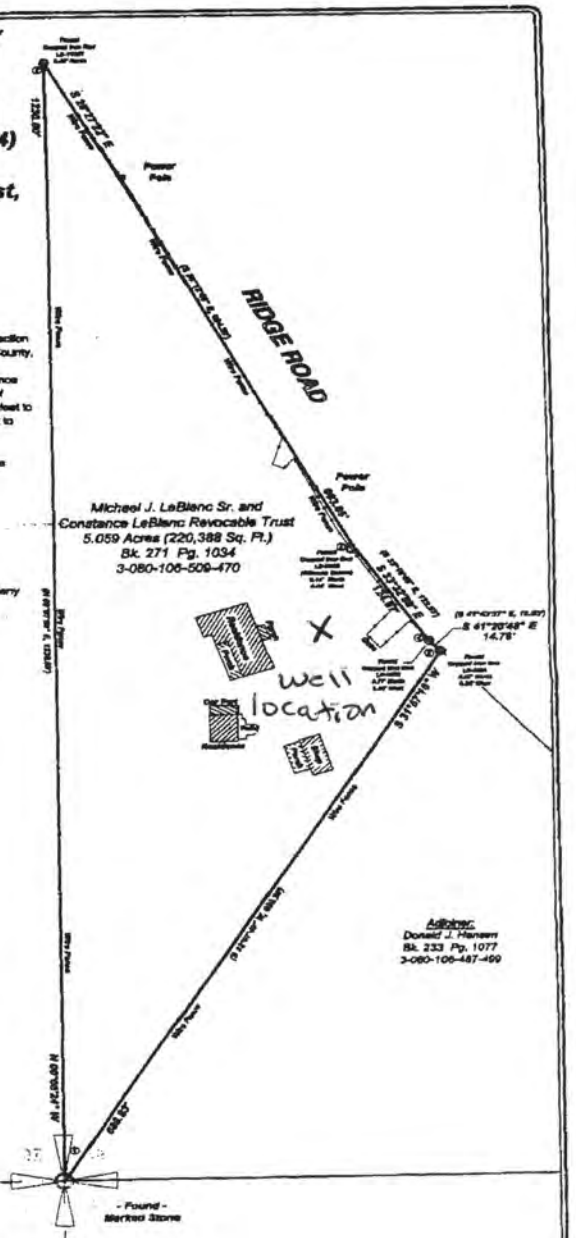
LEGAL DESCRIPTION:

A tract of land located within the Southwest quarter of the Southwest quarter (SW1/4SW1/4) of Section Twenty-three (23), Township Eighteen (18) South, Range Fourteen (14) West, N.M.P.M., Grant County, New Mexico described as follows:

Beginning at the Southwest corner of said Section Twenty-three (23),(a found marked stone); thence North 00°06'24" West, 1230.50 feet to Corner No. 2 a point on the Westerly Right-of-Way fence of "Ridge Road"; thence the following courses along said right-of-way; South 28°27'22"East 903.56 feet to Corner No. 3; South 33°32'59" East 124.87 feet to Corner No. 4; South 41°20'48" East 14.76 feet to Corner No. 5; thence leaving said right-of-way South 31°57'18" West 588.83 feet to the place of beginning. Containing 5.059 acres more of less.

SUBJECT TO Easements, Restrictions, Reservations and such Easements as may exist upon the ground.

END OF DESCRIPTION



BOUNDARY CORNER DESCRIPTIONS	
NUMBER	DESCRIPTION
1	Found - Marked Stone -
2	Found - Capped Iron Rod - LS 11231
3	Found - Capped Iron Rod - LS 8893 (Witness Corner)
4	Found - Capped Iron Rod - LS 8893
5	Found - Capped Iron Rod - LS 8893

NORTH

○ Monument Found

● Monument Set

(Field Measurements in Parenthesis)

Scale of Bearings Established by GPS Observation

80 100 200 300

Scale: 1" = 100 ft.

Documents Used in this Survey:

LeBlanc: Bk. 271, Pg. 1034
Hansen: Bk. 233, Pg. 1077
Pacific Western Land Company: Bk. 262, Pg. 475

Indexing Information for County Clerk:

Owner Name: Micheel J. LeBlanc Sr. and Constance LeBlanc Revocable Trust
Section: 23, Township 18 South, Range 14 West

Uniform Parcel Code Number:

LeBlanc: 3-080-106-509-470 (Owner)

This tract is not within a Subdivision.

Survey Completed
August 2, 2011

SURVEYOR'S CERTIFICATE:

I, William Ulric Miller, New Mexico Registered Professional Surveyor, N.M.L.S. No. 8893, do hereby certify that this Boundary Survey Plat and the actual Survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico; and that it is true and correct to the best of my knowledge and belief.

William Ulric Miller 8/3/2011

William Ulric Miller

WILLIAM ULRIC MILLER P.S. 8893 NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR

23 Project Number: 11-264 CAD: RDP

Z3 Planners & Surveyors LLC
3435 Highway 180 East · (575) 388-9252
Silver City, New Mexico 88061

APR 28 2022

ENGINEERS OFFICE
DEMING, NEW MEXICO

WARRANTY DEED (Joint Tenants)

Hector Luis Sosa and Patria Sosa, husband and wife
for consideration paid, grants to

Cliff B. Boger
and **Barbara B. Shaw,** husband and wife
whose address is P.O. Box 2178
Silver City, NM 88062

as Joint Tenants the following described real estate in GRANT County, New Mexico:

A tract of land located within the Southwest Quarter of the Southwest Quarter (SW¼SW¼) of Section Twenty-three (23), Township Eighteen (18) South, Range Fourteen (14) West, N.M.P.M., Grant County, New Mexico, described as follows:

Beginning at the Southwest Corner of said Section Twenty-three 23 (a found marked stone);
thence North 00°05'24" West, 1230.50 feet to Corner No.2 a point on the Westerly Right-of-Way fence of "Ridge Road";
thence the following courses along said Right-of-Way;
South 28°27'22" East, 603.85 feet to Corner No.3;
South 33°32'59" East, 124.87 feet to Corner No.4;
South 41°20'48" East, 14.76 feet to Corner No.5;
thence leaving said Right-of-Way South 31°57'16" West, 688.83 feet to the place of beginning.

Containing 5.059 acres more or less beginning.

Together with and Subject to all easements, reservations and restrictions of record.

with warranty covenants.

WITNESS our hands and seals this 25 day of July, 2018.

Hector Luis Sosa

Patria Sosa

ACKNOWLEDGMENT

STATE OF NEW MEXICO)
) ss:
COUNTY OF GRANT)
The foregoing instrument was acknowledged before me this 25 day of July, 2018,
by Hector Luis Sosa and Patria Sosa, husband and wife
W18-0535

My Commission expires: 10/10/21

Notary Public

SUZY GEVATT NOTARY PUBLIC STATE OF NEW MEXICO

201802609 B: 280 P: 2609 Pgs: 1 WD
This instrument was recorded on 07/25/2018 03:49:43 PM
Marisa Castrillo, County Clerk, Grant County NM
Deputy - rzamarripa
[redacted]

APR 28 2022
STATE ENGINEERS OFFICE
DEMING NEW MEXICO

STATE OF NEW MEXICO

REV (8/13)

CERTIFICATE OF DEATH

New Mexico Vital Records and Health Statistics
State of New Mexico
United States of America

No.4364638

DECEDENT'S LEGAL NAME <<<Barbara Bernice Shaw>>>			IF FEMALE, MAIDEN NAME <<<Costa>>>
DATE OF DEATH July 20, 2019	TIME OF DEATH 08:00 AM ☒ PM ☐	SEX Female	SOCIAL SECURITY NUMBER [redacted]
MARITAL STATUS Married	SURVIVING SPOUSE - If wife, maiden name <<<Cilff Boger>>>		
DATE OF BIRTH [redacted]	BIRTH PLACE Seattle, Washington		SERVED IN U.S. ARMED FORCES Yes ☐ No ☒
DECEDENT'S RACE White	TRIBE <<<>>>		HISPANIC Yes ☐ No ☒
DECEDENT'S RESIDENCE COUNTY Grant	DECEDENT'S RESIDENCE STATE New Mexico		
MOTHER'S FULL MAIDEN NAME <<<Dorothy C Robinson>>>	FATHER'S FULL NAME <<<George H Costa>>>		
METHOD OF DISPOSITION ☐ Burial ☐ Donation ☐ Removal from State ☒ Cremation ☐ Entombment ☐ Other (Specify): <<<>>>			DISPOSITION LOCATION Baca's Silver City Crematory
FUNERAL SERVICE FACILITY Baca's Funeral Chapels, Silver City			COUNTY OF DEATH Grant
PLACE OF DEATH 238 S Ridge Road	TYPE OF PLACE Decedent's Residence		NAME OF PERSON CERTIFYING CAUSE OF DEATH <<</S/ Gregory Kent Koury MD>>>

MANNER OF DEATH: ☒ Natural ☐ Accident ☐ Homicide ☐ Suicide ☐ Undetermined ☐ Pending Investigation

CAUSE OF DEATH

PART I. Events such as diseases, injuries, or complications that directly caused the death.

a. [redacted]

b. <<<>>>

c. <<<>>>

d. <<<>>>

PART II. Other significant conditions contributing to death.

Deep Venous Thrombosis

File Number: 2019-009930
File Date: July 25, 2019
Order Number: 20190711194

Renee Valencia, State Registrar

CERTIFIED COPY OF VITAL RECORD
This is a true and exact reproduction of all or part of the document officially registered and filed with the New Mexico Bureau of Vital Records and Health Statistics, Department of Health.

DATE ISSUED Jul-26-2019

WARNING: IT IS ILLEGAL TO ALTER, COPY OR COUNTERFEIT THIS CERTIFICATE.
ADVERTENCIA: ES ILEGAL ATERAR, COPIAR O FALSIFICAR ESTE CERTIFICADO.

This document is not authentic unless reproduced on safety paper displaying the Raised Seal of New Mexico
Hold up to light to view.
The back of this document contains a watermark.

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Mike A. Hamman, P.E.
State Engineer

321 W. Spruce St.
Deming, New Mexico 88030
PHONE: (575) 546-2851
FAX: (575) 546-2290

May 5, 2022

File: M-11898

Cliff B. Boger
238 S. Ridge Rd
Silver City, NM 88061

Greetings:

Enclosed is your copy of Domestic Well Permit M-11898-POD1, which has been approved.

Well Record shall be filed in this office within twenty (20) days after completion of drilling.

This permit will expire May 31, 2023, unless the well has been drilled and the Well Record filed in this office on or before that date.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By:
Donna Hernandez
Water Resources Professional II
Mimbres Basin

DH:dh
Encl: Approved permit
cc: State Engineer

File No. M-11935

NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, OR 72-12-1.3 NEW MEXICO STATUTES

For fees, see State Engineer website: http://www.ose.state.nm.us/

1. APPLICANT(S)

Name: Tyson Runyan check if Owner ☑ check if User* ☐ Tyson ~~and Jennifer Runyan~~	Name: Jennifer L Scalva check if Owner ☑ check if User* ☐
Contact or Agent: check if Agent ☐	Contact or Agent: check if Agent ☐
Mailing Address: Po Box 2953	Mailing Address: Po Box 2953
City: Silver City NM	City: Silver City
State: NM Zip Code: 88062	State: NM Zip Code: 88062
Phone: 575 574 8527 ☐ Home ☒ Cell Phone (Work):	Phone: 970 769 8600 ☐ Home ☒ Cell Phone (Work):
E-mail (optional): tyson.runyan@runyaninc.com ~~tyson.runyan~~ jennifersCalva@gmail.com	E-mail (optional):

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO
SEP 14 2022

☐ Check here if existing well. Enter OSE File No. _____

2. WELL LOCATION

Required: Coordinate location must be New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84). You may use a GPS, Google Earth or OSE POD Location maps to estimate location. District II (Roswell) and District VII (Cimarron) applicants must also provide PLSS!

NM State Plane (NAD83) - In feet	NM West Zone ☐ NM Central Zone ☐ NM East Zone ☐	X (in feet): Y (in feet):				
UTM (NAD83) - In meters	UTM Zone 13N ☐ UTM Zone 12N ☐	Easting (in meters): Northing (in meters):				
Lat/Long (WGS84) - To 1/10th of second ☐ Check if seconds are decimal format	Lat: ~~32.2080670~~ deg	42	min	29.04	sec	
	Long: ~~-108.2887704~~ deg	17	min	17.41	sec	

Other Location Information (complete the below, if applicable):

PLSS Quarters or Halves: SEQ SEQ SEQ Section: 28 Township: 18S Range: 14W

County: Grant

Land Grant Name (if applicable):

Lot No: Block No: Unit/Tract: Subdivision:

Hydrographic Survey: Map: Tract:

Other description relating well to common landmarks, streets, or other:
The well will Be on the north west corner of Arena.

***Well is on Land Owned by (Required):** Tyson Runyan & Jennifer L Scalva

*Any application for which the Applicant is not the landowner must be accompanied by a signed written consent of the land owner pursuant to 19.27.5.9(B) NMAC.

FOR OSE INTERNAL USE

Application for Permit, Form wr-01, Rev 08/25/2022

File No.: M-11935	Trn. No.: 734392	Receipt No.: 3-24938 $5.00
Well Tag ID No. (if applicable): 3068A	Sub-Basin: M	Log Due Date: 09/30/2023

3. PURPOSE OF USE: CHECK THOSE THAT APPLY

- ☐ Domestic use for one household
- ☒ Livestock watering
- ☐ Domestic use for more than one household. Number of households _____ Complete and attach form WR-01m "MULTIPLE home-owner info"
- ☐ Drinking and sanitary uses that are incidental to the operations of a governmental, commercial, or non-profit facility
- ☐ Prospecting, mining or drilling operations to discover or develop natural resources
- ☐ Construction of public works, highways and roads
- ☐ Domestic use for one household and livestock watering
- ☐ Domestic use for multiple households and livestock watering _____ Complete and attach form WR-01m "MULTIPLE home-owner info"
- ☐ Domestic well to accompany a house or other dwelling unit constructed for sale
- ☐ New well (with new purpose)
- ☐ Amend purpose of use on existing well
- ☐ No change in purpose

4. WELL INFORMATION: CHECK THOSE THAT APPLY ☐ Existing Well ☐ Known Artesian

File Information: (If existing well, provide OSE no. & indicate below if well is to be replacement, repaired or deepened, or supplemental. If new well, leave blank, as OSE must assign no.)

OSE Well No.(If Existing)	New Well No. (provided by OSE) M-11935-POD2
Well Driller Name: Tyson Lunn	**Well Driller License Number:** 1513
Approximate Depth of Well (feet): 600	Outside Diameter of Well Casing (inches): 4 1/2 inches

☐ Replacement well (List all existing wells if more than one):	☐ Repair or Deepen: ☐ Clean out well to original depth ☐ Deepen well from _____ to _____ ft. ☐ Other (Explain):	☐ Supplemental well (List OSE No. for all wells this will supplement):

5. ADDITIONAL STATEMENTS OR EXPLANATIONS (Use additional sheets if necessary)

New well is for Livestock watering, the address for this well is 72 McKinney rd.
The address for the house well is 92 McKinney rd, which is a Domestic/Stock well.

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO
SEP 14 2022

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Tyson and Jennifer Runyan
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature _____ Applicant Signature _____

ACTION OF THE OFFICE OF THE STATE ENGINEER (FOR OSE USE ONLY)

This application is approved subject to the attached general and specific conditions of approval.

Witness my hand and seal this 20th day of September 20 22, for the New Mexico State Engineer,

By: _____ Ben Young/Domestic Well Technician II
Signature Print

FOR OSE INTERNAL USE

Well Tag ID Issued? XX Yes ☐ No

File No.: M-11935	Trn No.: 734392	Well ID Tag No.: 3068A

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (A thru S)

17-A The maximum combined diversion of all wells that may be appropriated under this permit is 3.000 acre-feet in any year (One acre-foot equals 325,851 gallons).

17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig; provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.

17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.

17-D The production casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.

17-E To request a change to the purpose of use of water authorized under this permit, the permittee shall file an application with the State Engineer.

17-F An application for a new 72-12-1.1 NMSA 2003 domestic well permit where the proposed point of diversion is to be located on the same legal lot of record as an operational 72-12-1.1 NMSA domestic well shall be treated as an application for a supplemental well and the combined diversion may not exceed the maximum annual diversion permitted.

17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.

17-H The drilling of the well and amount and uses of water permitted are subject to such limitations as may be imposed by a court or by lawful municipal or county ordinance which are more restrictive than the conditions of this permit and applicable State Engineer regulations.

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (Continued)

17-I The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

17-J The well shall be set back a minimum of 50 ft. from an existing well of other ownership unless a variance has been granted by the State Engineer. The State Engineer may grant a variance for a replacement well or to allow for maximum spacing of the well from a source of groundwater contamination. The well shall be set back from potential sources of contamination in accordance with federal, state, and local requirements.

17-K Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

17-L The permit is subject to cancellation for non-compliance with the conditions of approval or if otherwise not exercised in accordance with the terms of the permit.

17-M The right to divert water under this permit is subject to curtailment by priority administration as implemented by the State Engineer or a court.

17-N In the event of any change of ownership to this permit the new owner shall file a change of ownership form with the State Engineer in accordance with Section 72-1-2.1 NMSA 1978.

17-O This well permit shall automatically expire unless the well is completed and the well record is filed with the State Engineer within one year of the date of issuance of the permit.

17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

17-Q The State Engineer retains jurisdiction over this permit.

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (Continued)

17-R The State Engineer shall supply a well identification tag for the well driller to firmly affix to the well casing or cap with a steel band upon completion in accordance with Subsection M of 19.27.4.29 NMAC.
The permit holder is responsible for maintaining the well identification tag.

Well Tag(s) associated with this permit:
3068A

GENERAL CONDITIONS OF APPROVAL (A thru S)

17-S Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.

SPECIFIC CONDITIONS OF APPROVAL

17-14 This permit authorizes the diversion of water for watering livestock. The total diversion of water under this permit shall not exceed 3.000 acre-feet per year.

17-18 Any diversion of water made in excess of the authorized maximum diversion amount shall be repaid with twice the amount of the over-diversion during the following calendar year. Repayment shall be made by either:
(a) reducing the diversion from the well that is the source of the over-diversion; or (b) acquiring or leasing a valid, existing consumptive use water right in an amount equal to the repayment amount and
submitting a plan for the proposed repayment during the following year to the State Engineer for approval.

LOG This permit will automatically expire unless the well M 11935 POD1 is completed and the well record filed on or before 09/30/2023.

NEW MEXICO STATE ENGINEER OFFICE
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

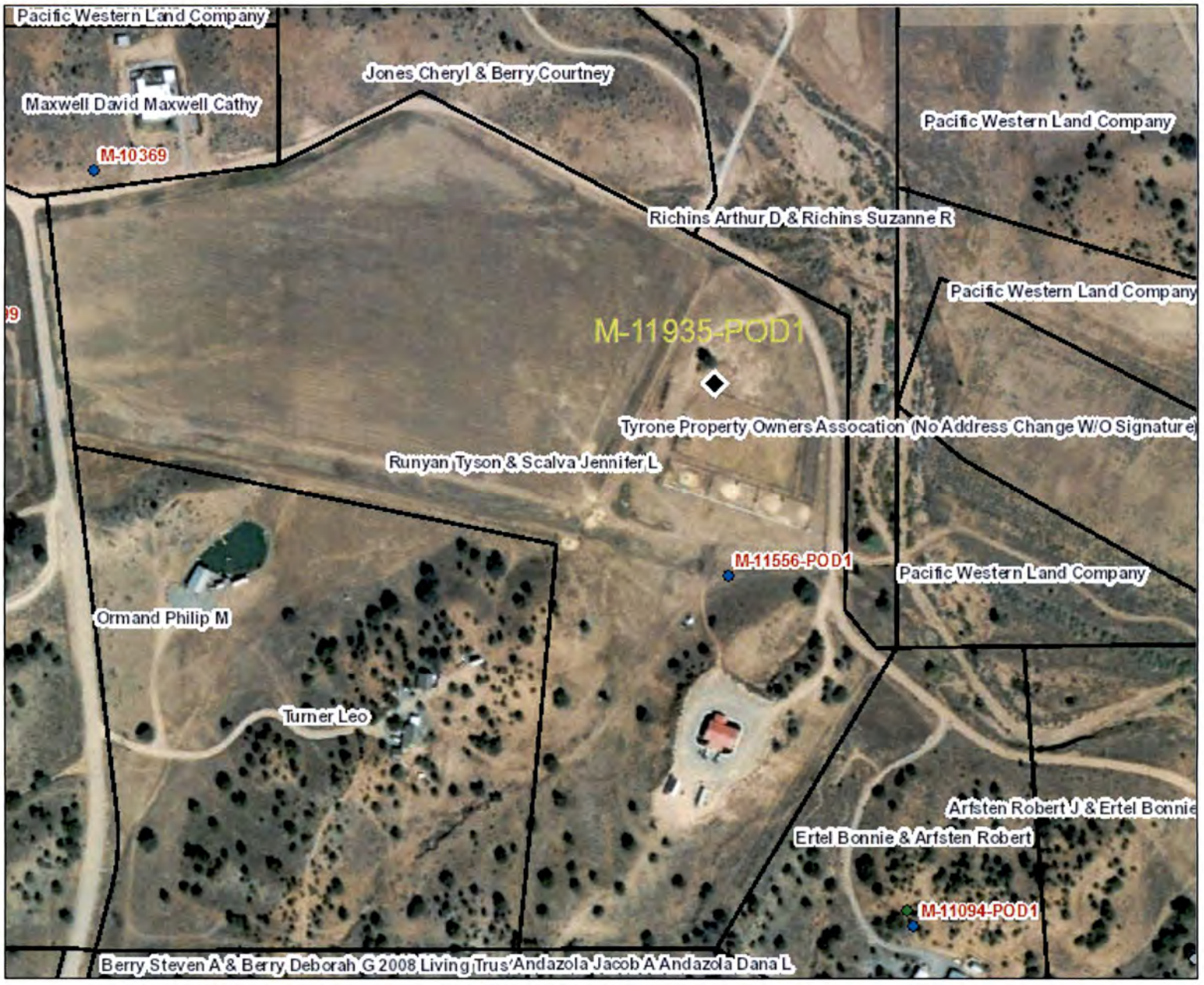
ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions listed above.

Witness my hand and seal this 20 day of Sep A.D., 2022

Mike A. Hamman, P.E., State Engineer

By: _____
Ben Young
Domestic Well Technician II
Mimbres Basin



NEW MEXICO OFFICE OF THE STATE ENGINEER

N

1:4,514

ft 0 90 180 360

Image Info
Source: Maxar
Date: 10/10/2020
Resolution (m):0.5
Accuracy (m): 5

Coordinates

UTM - NAD 83 (m) - Zone 12

Easting 754199.645

Northing 3622175.487

State Plane - NAD 83 (f) - Zone W

Easting 2583193.630

Northing 621628.888

Degrees Minutes Seconds

Latitude 32 : 42 : 29.040000

Longitude -108 : 17 : 17.410000

Location pulled from Coordinate Search

Spatial Information

OSE Administrative Area: Grant
County: Grant
Groundwater Basin: Mimbres
Abstract Area:Mimbres River

Sub-Basin: Mimbres

Land Grant: Not in Land Grant
Restrictions:
NA

PLSS Description

NWSESESE Qtr of Sec 28 of 018S 014W

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

POD Information

Owner: Tyson Runyan
File Number: M-11935-POD1
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: Livestock

Coord Search Location

GIS WATERS PODs
- Unknown
- Active
- Pending
- OSE District Boundary

New Mexico State Trust Lands
- Subsurface Estate

Bernalillo County Parcels 2022
Catron County Parcels 2022
Chaves County Parcels 2022
Cibola County Parcels 2022
Colfax County Parcels 2022
Curry County Parcels 2022
De Baca County Parcels 2022
Doña Ana County Parcels 2022
Eddy County Parcels 2022
Grant County Parcels 2022
Harding County Parcels 2022
Hidalgo County Parcels 2022
Guadalupe County Parcels 2022
Lea County Parcels 2022
Lincoln County Parcels 2022
Los Alamos County Parcels 2022
Luna County Parcels 2022
McKinley County Parcels 2022
Mora County Parcels 2022
Otero County Parcels 2022
Quay County Parcels 2022
Rio Arriba County Parcels 2022
Roosevelt County Parcels 2022
Sandoval County Parcels 2022
San Juan County Parcels 2022
San Miguel County Parcels 2022
Santa Fe County Parcels 2022
Sierra County Parcels 2022
Socorro County Parcels 2022

Ben Young 9/20/20

Reasonable effort has been made by the New Mexico Department of Homeland Security & Emergency Management (DHSEM) to verify that these maps accurately interpret the source data in their preparation, however, a degree of error is inherent in all maps, and the same may contain omissions and errors in scale, resolution, rectification, position and accuracy, development methods

WARRANTY DEED (Joint Tenants)

STEVEN A. BERRY AND DEBORAH G. BERRY, HUSBAND AND WIFE, for consideration paid, grant to **TYSON RUNYAN, A SINGLE PESON,** whose address is **297 Rosedale Road, Silver City, NM 88061,** and **JENNIFER L. SCALVA, A SINGLE PERSON,** whose address is **297 Rosedale Road, Silver City, NM 88061,** as joint tenants the following described real estate in **Grant** County, New Mexico:

Legal Description

A tract of land being situate in the SE1/4SE1/4 and SW1/4SE1/4 of Section 28, and the NE1/4NE1/4 of Section 33, T. 18S., R. 14W., N.M.P.M., Grant County, New Mexico, being described more particularly as follows:

Beginning at Corner No. 1, a point identical with the Northeast Corner of said Section 33;
thence S32° 14' 39"W for 738.11 ft. to Corner No. 2;
thence S89° 53' 05"W for 389.08 ft. to Corner No. 3, a point identical with the Northeast Corner of Lot 24, Oak Country Estates;
thence N05° 24' 09"E for 329.66 ft. to Corner No. 4;
thence N05° 43' 50"E for 520.37 ft. to Corner No. 5;
thence N78° 19' 33"W for 1042.70 ft. to Corner No. 6, a point on the Easterly line of a 60.00 ft. wide Roadway and Utility Easement (Old Ranch Road);
thence, along the Easterly line of a 60.00 ft. wide Roadway and Utility Easement (Old Ranch Road), N.06° 08' 14"W for 513.01 ft. to Corner No. 7;
thence, leaving the Easterly line of a 60.00 ft. wide Roadway and Utility Easement (Old Ranch Road), N79° 22' 54"E for 480.90 ft. to Corner No. 8;
thence N63° 26' 51"E for 339.42 ft. to Corner No. 9;
thence S61° 51' 39"E for 1026.93 ft. to Corner No. 10;
thence S01° 23' 58"W for 617.37 ft. to Corner No. 11;
thence S39° 16' 21"E for 104.07 ft. to Corner No. 12;
thence S89° 40' 55"E for 43.23 ft., to the Point of Beginning.

Containing 37.396 acres, more or less.

Subject to a 10.00 ft. wide Utility Easement adjoining the lines from Corner No. 1 to Corner No. 2 and Corner No. 2 to Corner No. 3 of the above described tract.

Subject to a 10.00 ft. wide Utility Easement as described in Plat Book 9 at Page 1210 of the records of the Grant County Clerk.

Subject to a 15.00 ft. wide Utility Easement as described Book 275 at Page 1815 of the records of the Grant County Clerk.

Reserving unto the grantors, their heirs, successors, and assigns, a 60.00 ft. wide Roadway Easement adjoining the Northerly boundary of the tract as shown on this survey.

Subject to easements, reservations, and restrictions of record, and such easements as may exist on the ground.

SUBJECT TO ANY EASEMENTS, RESERVATIONS AND RESTRICTIONS OF RECORD.

with warranty covenants.

WITNESS our hands and seals this 12 **day of October, 2016.**

Steven A. Berry

Steven A. Berry

Deborah G. Berry

Deborah G. Berry

OFFICIAL SEAL
Marissa A. Castrillo
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 2017

STATE OF NEW MEXICO }
SS.
COUNTY OF GRANT }

This instrument was acknowledged before me on this 12th *day of* **October, 2016, by Steven A. Berry and Deborah G. Berry, husband and wife.**

My commission expires:
(Seal)

Marissa A. Castrillo
(Notary Public)

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO
SEP 14 2022

201603887 B: 278 P: 3887 Pgs: 1 WD
This instrument was recorded on 10/12/2016 03:16:14 PM
Robert Zamarripa, County Clerk, Grant County NM
Deputy - rzamarripa

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Mike A. Hamman P.E.,
State Engineer

321 W. Spruce Street
Deming, New Mexico 88030
PHONE: (575) 546-2851
FAX: (575) 546-2290

September 12, 2023

FILE: M-11935

Tyson Runyan & Jennifer L. Scalva
Po Box 2953
Silver City, New Mexico 88062

Greetings:

This office has not received a Well Driller's Record for Permit for Stock Well M-11935-POD1, which expires a year after issuance if this well has not been drilled and the Well driller's log is not filed.

If this well has been drilled, please contact the well driller and request the well log be submitted to this office by September 30, 2023 and **advise this office when you have done so**.

Your Permit for Stock Well M-11935-POD1 expires September 30, 2023. **If this well record is not received in this office by that date, your permits will automatically expire. Upon expiration you must reapply for a valid permit and submit a new filing fee.** The proper forms to re-apply will be sent to you upon request.

Sincerely,

Lloyd R. Valentine, III
District 3 Manager

By:
Ben Young
Domestic Well Technician II
Mimbres Basin

BY: by
087

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Mike A. Hamman, P.E.
State Engineer

321 W. Spruce St.
Deming, New Mexico 88030
PHONE: (575) 546-2851
FAX: (575) 546-2290

September 20, 2022

File: M-11935

Tyson Runyan & Jennifer L. Scalva
Po Box 2953
Silver City, New Mexico 88062

Greetings:

Enclosed is your copy of Livestock Well Permit M-11935-POD1, which has been approved.

Well Record shall be filed in this office within thirty (30) days after completion of drilling.

This permit will expire September 30, 2023, unless the well is drilled, and the Well Record filed in this office on or before that date.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By:
Ben Young
Domestic Well Technician II
Mimbres Basin

BY:by
Encl: Approved permit
cc: State Engineer
T.L. Enterprieses

Appendix B

Well Logs and Records

DBS&A
a Geo-Logic Company

Form WR-23 STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(Plat of 640 acres)

(A) Owner of well Jack Hamilton

Street and Number

City Silver City State N. Mex. 88061

Well was drilled under Permit No. M-2922 and is located in the SW ¼ SW ¼ ¼ of Section 28 Twp. 18 W. Rge. 14 W.

(B) Drilling Contractor Eddie Boone License No. 333

Street and Number Rt. 8 Box 42

City Silver City State N. Mex. 88061

Drilling was commenced 5-26 19 71

Drilling was completed 6-1 19 71

Elevation at top of casing in feet above sea level Total depth of well 140 ft.

State whether well is shallow or artesian Shallow Depth to water upon completion 40 ft.

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation
1	first	water		-40 ft. Brown Rock
2	second	"		-110 ft. Green "
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth Top	Depth Bottom	Feet	Type Shoe	Perforations From	Perforations To
8"	17				27			

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used

Section 5 PLUGGING RECORD

Name of Plugging Contractor License No.

Street and Number City State

Tons of Clay used Tons of Roughage used Type of roughage

Plugging method used Date Plugged 19

Plugging approved by: Cement Plugs were placed as follows:

Basin Supervisor

No.	Depth of Plug From	Depth of Plug To	No. of Sacks Used

FOR USE OF STATE ENGINEER ONLY

Date Received January 16, 1972

File No. M-2922 Use Stock Location No. 18.14.28.33

'72 JAN 16 AM 8 52 STATE ENGINEER OFFICE DEMING, N.MEX.

Section 6

LOG OF WELL

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	65	65	Brown	Rock
65	105	40	Gray	Rock
105	140	35	Green	"

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Eddie Boone
Well Driller

June 29, 1972

COPY

FILE: M-2922

John S Hamilton, Jr.
Tyrone, New Mexico 88065

Dear Sir:

Enclosed is copy of the Well Record for your stock well permit No. M-2922, which has been accepted for filing.

This is the final filing under Stock Well Permit No. M-2922.

Yours truly,

L. T. Putnam
Supervisor, District III

LTP:jl
Encl: Well Record
cc: State Engineer

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Exxon Company, U.S.A. Owner's Well No. EGH-1

Street or Post Office Address Minerals Department, P. O. Box 120,

City and State Denver, Colorado 80201

'75 SEP 3 PM 3 29

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501

Well was drilled under Permit No. M4034 and is located in the:

a. ____ ¼ SW ¼ SE ¼ NW ¼ of Section 28 Township 18S Range 14W N.M.P.M.

b. Tract No. ____ of Map No. ____ of the ____

c. Lot No. ____ of Block No. ____ of the ____
Subdivision, recorded in ____ County.

d. X= ____ feet, Y= ____ feet, N.M. Coordinate System ____ Zone in the ____ Grant.

(B) Drilling Contractor L. C. Jones License No. # WD-381

Address Deming, New Mexico

Drilling Began 7/1/75 Completed 7/9/75 Type tools Hammer/Tri-Cone Size of hole 6 in.

Elevation of land surface or ____ at well is 5800 ft. Total depth of well 900. ft.

Completed well is ☐ shallow ☒ artesian. Depth to water upon completion of well 280.30 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
460	900	440	Malpais, red volcanics with sandy	
			interbeds	300.

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6" X .188	Blank pipe		0	555	555	6" Drive Shoe	None	

'75 AUG 22 AM 8 43
STATE ENGINEER OFFICE
DISTRICT III
DEMING, N.MEX.

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
			No Mud		

Casing will be pulled if possible. Metal cap will be welded over hole at surface until production decision is made.

Section 5. PLUGGING RECORD

Plugging Contractor ____

Address ____

Plugging Method ____

Date Well Plugged ____

Plugging approved by:

____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received August 22, 1975

Quad ____ FWL ____ FSL ____

File No. M-4034 Use Pumping test Location No. 18.14.28.143

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	460	460	Buff color Gila conglomerate
460	900	440	Pale red-brown volcanic rock (Malpais) with sandy interbeds.

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

X L Cfonr

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, exce ection 5, shall be answered as completely a ccurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

JAN 1 9 2022

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.) M-11819	WELL TAG ID NO. 30587	OSE FILE NO(S). M-11819
WELL OWNER NAME(S) Rhonda Thibedeau		PHONE (OPTIONAL) 970-361-4545
WELL OWNER MAILING ADDRESS 101 Windmill Ridge		CITY Tyrone STATE NM ZIP 88065

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	42	03.73	N
LONGITUDE	108	16	47.03	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SE Q SE Q NW Q
* NW1/4, SW1/4, NE1/4, S.34, T.18S, R.14W, Grant County

2. DRILLING & CASING INFORMATION

Per Driller GPS

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1486	DEREK J. KUESTER	KUESTER WELL DRILLING INC.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10-7-21	10-13-21	300	300	200

COMPLETED WELL IS: ARTESIAN DRY HOLE X SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): 170

DRILLING FLUID: X AIR MUD ADDITIVES – SPECIFY:

DRILLING METHOD: X ROTARY X HAMMER CABLE TOOL OTHER – SPECIFY:

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
+18"	20	10 3/4	PVC Surface Casing	Cemented	6 1/4	Schd 1.40	—
+24"	300	6 1/4	PVC	Eagle-lok	4	Schd 1.40	.032
					Slotted	200-300	

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	10 3/4	cement slurry	8	pour

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. M-11819	POD NO. 1	TRN NO. 698186		
* LOCATION 18.14.34.144	Domestic/Stock	WELL TAG ID NO. 30587	PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	15	15	Unconsolidated rocks, dirt	Y ~~N~~	
15	200	185	Gila Conglomerate	Y ~~N~~	
200	300	100	Conglomerate w/ fractures	~~Y~~ N	20+
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☒ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 20+0.00

JAN 19 2022 STATE ENGINEER'S OFFICE DEMING, NEW MEXICO

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

JAN 19 2022 STATE ENGINEER'S OFFICE DEMING, NEW MEXICO

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Derek Kuester Derek Kuester — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-2-21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO. M-11819	POD NO. 1	TRN NO. 698186	
LOCATION 18.14.34.144	Domestic/Stock	WELL TAG ID NO. 30587	PAGE 2 OF 2

NEW MEXICO OFFICE OF THE STATE ENGINEER

Coordinates

UTM - NAD 83 (m) - Zone 12

Easting 755010.946

Northing 3621416.031

State Plane - NAD 83 (f) - Zone W

Easting 2585778.568

Northing 619060.028

Degrees Minutes Seconds

Latitude 32 : 42 : 3.730000

Longitude -108 : 16 : 47.030000

Location pulled from Coordinate Search

Image Information
Source: Maxar
Date: 10/10/2020
Resolution (m): 0.5
Accuracy (m): 5

POD Information

File Number: M-11819
Owner:
Permit Use: NoData
POD Status: NoData
Permit Status: NoData

1:2,257

ft

0 45 90 180

N

Author: Ben Young
Purpose:
2/16/2022

Coord Search Location

GIS WATERS PODs

Unknown

Pending

OSE District Boundary

Counties

Bernalillo County Parcels 2021

Catron County Parcels 2021

Chaves County Parcels 2021

Cibola County Parcels 2021

Colfax County Parcels 2021

Curry County Parcels 2021

De Baca County Parcels 2021

Doña Ana County Parcels 2021

Eddy County Parcels 2021

Grant County Parcels 2021

Harding County Parcels 2021

Hidalgo County Parcels 2021

Guadalupe County Parcels 2021

Lea County Parcels 2021

Lincoln County Parcels 2021

Los Alamos County Parcels 2021

Luna County Parcels 2021

McKinley County Parcels 2021

Mora County Parcels 2021

Otero County Parcels 2021

Quay County Parcels 2021

Rio Arriba County Parcels 2021

Spatial Information

OSE Administrative Area: District 3
County: Grant
Groundwater Basin: Mimbres
Abstract Area: Mimbres River

Sub-Basin: Mimbres
Land Grant: Not in Land Grant
Restrictions:
NA

Well Record GPS changed the Q's from permit

PLSS Description

NWSESENW Qtr of Sec 34 of 018S 014W

Derived from CADNSDI. Qtr Sec. locations are calculated and are only approximations

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Mike A. Hamman, P.E.
State Engineer

321 W. Spruce St.
Deming, New Mexico 88030
PHONE: (575) 546-2851
FAX: (575) 546-2290

February 16, 2022

FILE: M-11819

Rhonda Thibedeau
101 Windmill Ridge
Tyrone, New Mexico 88065

Greetings:

Enclosed is your copy of Well Record for Domestic/Stock Well M-11819-POD1, which has been accepted for filing.

This is the final filing for Domestic/Stock Well Permit M-11819-POD1.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By:
Ben Young
Domestic Well Technician
Mimbres Basin

BY:by
Encl: Well Record
cc: State Engineer

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.) M-11898	WELL TAG ID NO. 301AE	OSE FILE NO(S). M-11898
WELL OWNER NAME(S) Cliff B. Boger		PHONE (OPTIONAL) 575-888-1129
WELL OWNER MAILING ADDRESS 238 S. Ridge Rd.		CITY Silver City STATE NM ZIP 88061

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	43	22.47 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND
LONGITUDE	108	16	07.48 W	* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW1/4, SW1/4, SW1/4, S.23, T.18S, R.14W, 238 S. Ridge Rd, Grant County

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1486	Derek Kuester	Kuester Well Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
6-11-22	6-15-22	400	400	300

COMPLETED WELL IS: ARTESIAN DRY HOLE X SHALLOW (UNCONFINED) STATIC WATER LEVEL IN COMPLETED WELL (FT) 276 DATE STATIC MEASURED 6-18-22

DRILLING FLUID: X AIR MUD ADDITIVES – SPECIFY:

DRILLING METHOD: X ROTARY X HAMMER CABLE TOOL OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
+18"	16	10 3/4	PVC Surface Casing	Cemented	6 1/4	Schd. 40	
+24"	400	6 1/4	PVC	Eagle-tok	4	Schd. 40	.032
					Slotted	300-400	

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	16	10 3/4	Cement Slurry	3	poured

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. M-11898	POD NO. 1	TRN NO. 725222	
LOCATION 18.14.23.333	Domestic	WELL TAG ID NO. 301AE	PAGE 1 OF 2

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO

JUL 27 2022

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	13	13	Semi-Silidified Conglomerate	Y ~~N~~	
13	300	287	Silidified Conglomerate	Y ~~N~~	
300	400	100	Conglomerate w/ Fractures	~~Y~~ N	30+
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☒ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 30+

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Derek Kuester Derek Kuester 7-4-22

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. M-11898	POD NO. 1	TRN NO. 725222	
LOCATION 18.14.23.333	Domestic	WELL TAG ID NO. 301AE	PAGE 2 OF 2

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO

JUL 27 2022

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Mike A. Hamman, P.E.
State Engineer

321 W. Spruce St.
Deming, New Mexico 88030
PHONE: (575) 546-2851
FAX: (575) 546-2290

July 28, 2022

FILE: M-11898

Cliff B. Boger
238 S. Ridge Rd
Silver City, New Mexico 88061

Greetings:

Enclosed is your copy of Well Record for Domestic Well M-11898-POD1, which has been accepted for filing.

This is the final filing for Domestic Well Permit M-11898-POD1.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By:
Ben Young
Domestic Well Technician II
Mimbres Basin

BY:by
Encl: Well Record
cc: State Engineer

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO

MAY 24 2023

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

Dry Hole

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)		WELL TAG ID NO: 3068A	OSE FILE NO(S): M-11935-POD 1
WELL OWNER NAME(S): Tyson & Jennifer Runyon			PHONE (OPTIONAL): 575-574-8527
WELL OWNER MAILING ADDRESS: PO BOX 2953			CITY: Silver City STATE: NM ZIP: 88062

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	42	~~19~~ 30	N
LONGITUDE	108	17	~~18~~ 16	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO: 1513	NAME OF LICENSED DRILLER: Tyson Lowney		NAME OF WELL DRILLING COMPANY: TL Drilling
DRILLING STARTED: 11-17-22	DRILLING ENDED: 11-23-22	DEPTH OF COMPLETED WELL (FT): Well Caved in to 70 Ft	BORE HOLE DEPTH (FT): 329 Ft
DEPTH WATER FIRST ENCOUNTERED (FT): ~~100~~ Ft			

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): None

DATE STATIC MEASURED: 11-25-22

DRILLING FLUID: ☒ AIR ☒ MUD ADDITIVES SPECIFY: EZ Mud Plus - Quick foam

DRILLING METHOD: ☒ ROTARY ☒ HAMMER ☐ CABLE TOOL ☐ OTHER SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
+1.0	20.0	12 7/8	8" PVC	Glue	8"	1/4	

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	12 7/8	Neat Cement	~~15~~ 11.5	pour Pump
20	90	7 7/8	Neat Cement	69.5 CF	
			Drilled to 90 Ft		pour-Pump
			Filled hole with Neat Cement	2 1/2 yards	
			from 20 to 90 Ft.		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. M-11935	POD NO. 1	TRN NO. 734392	
LOCATION 18.14.28.442	~~Stock~~	WELL TAG ID NO. 3068A	PAGE 1 OF 2

* Per GPS given by driller

Dry hole

plugged 4-22-23

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	15		Sand Conglomerate mix	Y N	
15	20		Clay	Y N	
20	90		loose Unstable Formation (Black)	Y N	
90	100		Conglomerate loose Black	Y N	
100	108		Conglomerate Tan (loose)	~~Y~~ N	~~X~~
108	150		Conglomerate (Red)	Y N	
150	153		Conglomerate Red - Tan	~~Y~~ N	~~4~~
153	329		Conglomerate Tan	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): None

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Drilled into unstable Formation from 20 to 90 Ft - Formation was Pocketing and Coltapsing. Filled hole from 20 to 90 Ft with Neat Cement. Drilled through cement down to 329, well caved in back to 70 Ft. Called Deming State Engineer, get permission to cement well and move to new location.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE: 11/30/22

MAY 24 2023
STATE ENGINEERS OFFICE
DEMING, NEW MEXICO

Coordinates

UTM - NAD 83 (m) - Zone 12

Easting 754235.613

Northing 3622206.002

State Plane - NAD 83 (f) - Zone W

Easting 2583314.518

Northing 621725.390

Degrees Minutes Seconds

Latitude 32 : 42 : 30.000000

Longitude -108 : 17 : 16.000000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft 0 45 90 180

N

Image Info
Source: Maxar
Date: 1/17/2022
Resolution (m):0.31
Accuracy (m): 5

Spatial Information

OSE Administrative Area: Grant
County: Grant
Groundwater Basin: Mimbres
Abstract Area: Mimbres River
Sub-Basin: Mimbres
Land Grant: Not in Land Grant
Restrictions:
NA

PLSS Description

SENESESE Qtr of Sec 28 of 018S 014W

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Coord Search Location
OSE District Boundary

NHD Flowlines

Stream River

Bernalillo County Parcels 2022
Catron County Parcels 2022
Chaves County Parcels 2022
Cibola County Parcels 2022
Colfax County Parcels 2022
Curry County Parcels 2022
De Baca County Parcels 2022
Doña Ana County Parcels 2022
Eddy County Parcels 2022
Harding County Parcels 2022
Hidalgo County Parcels 2022
Grant County Parcels 2022
Guadalupe County Parcels 2022
Lea County Parcels 2022
Lincoln County Parcels 2022
Los Alamos County Parcels 2022
Luna County Parcels 2022
McKinley County Parcels 2022
Mora County Parcels 2022
Otero County Parcels 2022
Quay County Parcels 2022
Rio Arriba County Parcels 2022
Roosevelt County Parcels 2022
Sandoval County Parcels 2022
San Juan County Parcels 2022
San Miguel County Parcels 2022
Santa Fe County Parcels 2022
Sierra County Parcels 2022
Socorro County Parcels 2022
Taos County Parcels 2022
Torrance County Parcels 2022

POD Information

Owner:
File Number:
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose:

Donna 5/30/2023

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that the maps accurately, to keep pace with the source data used in the map preparation; however, a degree of error is inherent in all maps, and these maps may contain omissions and errors in scale, resolution, rectification, positional accuracy, data type or methodology, interpretation of source data, and other circumstances.
These maps are distributed "as is" without warranty of any kind.

Office of the State Engineer
Interstate Stream Commission

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Mike A. Hamman, P.E.,
State Engineer

321 W. Spruce St.
Deming, New Mexico 88030
PHONE: (575) 546-2851
FAX: (575) 546-2290

May 30, 2023

FILE: M-11935

Tyson Runyan
Jennifer Scalva
P.O. Box 2953
Silver City, NM 88062

Greetings:

Enclosed is your copy of well record for Permit for Livestock Well M-11935-POD1, which has been accepted for filing.

It is unfortunate that the well drilled under livestock permit M-11935-POD1 turned out to be a dry hole.

Sincerely,
Lloyd R. Valentine, III
District 3 Manager

By: P Rodriguez
Patsy Rodriguez
Domestic Well Technician II
Mimbres Basin

PR:dm
Encl: Well Record
cc: State Engineer
034f

(1st attempt)

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: M-11935-POD-1

Well owner: Tyson and Jennifer Runyon Phone No.: 575-574-5527

Mailing address: PO Box 2953 Silver City NM 88062

City: Silver City State: NM Zip code: 88062

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: TL Drilling

2) New Mexico Well Driller License No.: 1513 Expiration Date: 11-30-2024

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Tyson Lounev

4) Date well plugging began: 04-22-23 Date well plugging concluded: 04-22-23

5) GPS Well Location: Latitude: 32 deg, 42 min, 14 30 sec per Driller
Longitude: 108 deg, 17 min, ~~15~~16 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 70 ft below ground level (bgl), by the following manner: Well Sounder & 1" Tremie pipe

7) Static water level measured at initiation of plugging: NONE ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 11-24-22

9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

MAY 24 2023

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO

M-11935
18.14.28.442

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
+1.0	Neat Cement	~~185.38~~ 190.00	185.38	tremie & pour	8" Casing from +1.0 to 20 Ft. Bore hole from 20 ft to 70 Ft.
70 Ft					

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO
MAY 24 2023

III. SIGNATURE:

I, _____, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

05/1/23
Date

M-11935
18.14.28.442

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Mike A. Hamman, P.E.
State Engineer

321 W. Spruce St.
Deming, New Mexico 88030
PHONE: (575) 546-2851
FAX: (575) 546-2290

June 12, 2023

FILE: M-11935

Tyson & Jennifer Runyon
P.O. Box 2953
Silver City, NM 88062

Greetings:

Enclosed is your copy of plugging record for a Livestock Well M-11935, which has been accepted for filing.

This is the final filing for plugging record for Livestock Well M-11935-POD1.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By: P. Rodriguez
Patsy Rodriguez
Domestic Well Technician III
Mimbres Basin

PR:pr
Encl: Plugging Record
cc: State Engineer

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO

MAY 25 2023

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO: 3068 A	OSE FILE NO(S): M-11935 -POD-1
WELL OWNER NAME(S): Tyson and Jennifer Runyon		PHONE (OPTIONAL): 575-574-8527
WELL OWNER MAILING ADDRESS: PO BOX 2953		CITY: Silver City STATE: NM ZIP: 88062

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS
LATITUDE	32	42	~~30~~ 19 N
LONGITUDE	108	17	~~16~~ 18 W

Per Driller
* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO: 1513	NAME OF LICENSED DRILLER: Tyson Looney	NAME OF WELL DRILLING COMPANY: TL Drilling
DRILLING STARTED: 04-13-23	DRILLING ENDED: 04-21-23	DEPTH OF COMPLETED WELL (FT): 470
BORE HOLE DEPTH (FT): 475	DEPTH WATER FIRST ENCOUNTERED (FT): 150	

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 149 DATE STATIC MEASURED: 04-30-23

DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES SPECIFY: Quick-Foam

DRILLING METHOD: ☒ ROTARY ☒ HAMMER ☐ CABLE TOOL ☐ OTHER SPECIFY: CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
+2.0	23.0	12 7/8	8" PVC	Glue	8"	1/4	
+2.5	470	7 7/8	Sure-lock	Sure-lock	4"	1/4	
370	390	"	well-Screen	Sure-lock	4"	1/4	20 Thous
410	470	"	well-Screen	Sure-lock	4"	1/4	20 Thous

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	23	12 7/8	neat-Cement	9.72	pour-pump
100	470	7 7/8	3/8 pea Gravel	96.99 Approx 2 Tons	pour

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. M-11935	POD NO. 1	TRN NO. 734392	
LOCATION 18.14.33.222	Livestock	WELL TAG ID NO. 3068A	PAGE 1 OF 2

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO

MAY 25 2023

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2	2	Top Soil	Y N	
2	15		Conglomerate (Tan)	Y N	
15	16		Clay	Y N	
16	110		Conglomerate (Tan)	Y N	
110	125		Conglomerate Brown with Tan	Y N	
125	150		Conglomerate (Red)	Y N	
150	155		Conglomerate Tan with Black	(Y) N	1-2
155	350		Conglomerate (Brown)	Y N	
350	355		Conglomerate (Red)	Y N	
355	420		Conglomerate Brown with Black	(Y) N	8
420	475		Conglomerate Brown and Tan	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:
☒ PUMP ☒ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 9-11

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE: 5/1/23

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. M-11935	POD NO. 1	TRN NO. 734392	
LOCATION 18.14.33.222	Livestock	WELL TAG ID NO. 3068A	PAGE 2 OF 2

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Mike A. Hamman, P.E.
State Engineer

321 W. Spruce Street
Deming, New Mexico 88031
PHONE: (575) 546-2851
FAX: (575) 546-2290

June 1, 2023

FILE: M-11935

Tyson Runyan
Jennifer Scalva
P.O. Box 2953
Silver City, New Mexico 88062

Greetings:

Enclosed is your copy of well record for Livestock Well M-11935-POD1, which has been accepted for filing.

Your attention is called to the permit to General Conditions of Approval and Specific Conditions of Approval, which state as follows:

14. **This permit authorizes the diversion of water for watering livestock. The total diversion of water under this permit shall not exceed 3.000 acre-feet per year.**

This is the final filing for Livestock Well Permit M-11935-POD1.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By: P. Rodriguez
Patsy Rodriguez
Domestic Well Technician III
Mimbres Basin

PR:dh
Encl: Well Record
cc: State Engineer
034

Form WR-23 STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(Plat of 640 acres)

(A) Owner of well Jack Hamilton

Street and Number

City Silver City State N. Mex. 88061

Well was drilled under Permit No. M-2922 and is located in the SW ¼ SW ¼ ¼ of Section 28 Twp. 18 W. Rge. 14 W.

(B) Drilling Contractor Eddie Boone License No. 333

Street and Number Rt. 8 Box 42

City Silver City State N. Mex. 88061

Drilling was commenced 5-26 19 71

Drilling was completed 6-1 19 71

Elevation at top of casing in feet above sea level Total depth of well 140 ft.

State whether well is shallow or artesian Shallow Depth to water upon completion 40 ft.

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation
1	first	water		-40 ft. Brown Rock
2	second	"		-110 ft. Green "
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth Top	Depth Bottom	Feet	Type Shoe	Perforations From	Perforations To
8"	17				27			

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used

Section 5 PLUGGING RECORD

Name of Plugging Contractor License No.

Street and Number City State

Tons of Clay used Tons of Roughage used Type of roughage

Plugging method used Date Plugged 19

Plugging approved by: Cement Plugs were placed as follows:

Basin Supervisor

No.	Depth of Plug From	Depth of Plug To	No. of Sacks Used

FOR USE OF STATE ENGINEER ONLY

Date Received January 16, 1972

File No. M-2922 Use Stock Location No. 18.14.28.33

'72 JAN 16 AM 8 52 STATE ENGINEER OFFICE DEMING, N.MEX.

Section 6

LOG OF WELL

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	65	65	Brown	Rock
65	105	40	Gray	Rock
105	140	35	Green	"

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Eddie Boone
Well Driller

June 29, 1972

COPY

FILE: M-2922

John S Hamilton, Jr.
Tyrone, New Mexico 88065

Dear Sir:

Enclosed is copy of the Well Record for your stock well permit No. M-2922, which has been accepted for filing.

This is the final filing under Stock Well Permit No. M-2922.

Yours truly,

L. T. Putnam
Supervisor, District III

LTP:jl
Encl: Well Record
cc: State Engineer

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Exxon Company, U.S.A. Owner's Well No. EGH-1

Street or Post Office Address Minerals Department, P. O. Box 120,

City and State Denver, Colorado 80201

'75 SEP 3 PM 3 29

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501

Well was drilled under Permit No. M4034 and is located in the:

a. ____ ¼ SW ¼ SE ¼ NW ¼ of Section 28 Township 18S Range 14W N.M.P.M.

b. Tract No. ____ of Map No. ____ of the ____

c. Lot No. ____ of Block No. ____ of the ____
Subdivision, recorded in ____ County.

d. X= ____ feet, Y= ____ feet, N.M. Coordinate System ____ Zone in the ____ Grant.

(B) Drilling Contractor L. C. Jones License No. # WD-381

Address Deming, New Mexico

Drilling Began 7/1/75 Completed 7/9/75 Type tools Hammer/Tri-Cone Size of hole 6 in.

Elevation of land surface or ____ at well is 5800 ft. Total depth of well 900. ft.

Completed well is ☐ shallow ☒ artesian. Depth to water upon completion of well 280.30 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
460	900	440	Malpais, red volcanics with sandy	
			interbeds	300.

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6" X .188	Blank pipe		0	555	555	6" Drive Shoe	None	

'75 AUG 22 AM 8 43
STATE ENGINEER OFFICE
DISTRICT III
DEMING, N.MEX.

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
			No Mud		

Casing will be pulled if possible. Metal cap will be welded over hole at surface until production decision is made.

Section 5. PLUGGING RECORD

Plugging Contractor ____

Address ____

Plugging Method ____

Date Well Plugged ____

Plugging approved by:

____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received August 22, 1975

Quad ____ FWL ____ FSL ____

File No. M-4034 Use Pumping test Location No. 18.14.28.143

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	460	460	Buff color Gila conglomerate
460	900	440	Pale red-brown volcanic rock (Malpais) with sandy interbeds.

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

X L Cfonr

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, exce ection 5, shall be answered as completely a ccurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

'75 SEP 3 PM 3 20

(A) Owner of well Exxon Company, U.S.A. Owner's Well No. EGH-2

Street or Post Office Address Minerals Department, P. O. Box 120

City and State Denver, Colorado 80201

STATE ENGINEER OFFICE SANTA FE, N.M. 87501

Well was drilled under Permit No. M4035 and is located in the:

a. ____ ¼ SW ¼ NE ¼ NW ¼ of Section 28 Township 18S Range 14W N.M.P.M.

b. Tract No. ____ of Map No. ____ of the ____

c. Lot No. ____ of Block No. ____ of the ____ Subdivision, recorded in ____ County.

d. X= ____ feet, Y= ____ feet, N.M. Coordinate System ____ Zone in the ____ Grant.

(B) Drilling Contractor L. C. Jones License No. # WD-381

Address Deming, New Mexico

Drilling Began 7/10/75 Completed 7/18/75 Type tools Hammer/Tri-Cone Size of hole 6 in.

Elevation of land surface ~~or~~ ____ at well is 5800 ft. Total depth of well 906. ft.

Completed well is ☐ shallow ☒ artesian. Depth to water upon completion of well 283.86 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
452	906	454	Malpais; red volcanics with sandy	
			interbeds.	800.

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6" X .188	Blank Pipe		0	466	466	6" Drive Shoe	None	

'75 AUG 22 AM 8 41 STATE ENGINEER OFFICE DISTRICT II DEMING, N. MEX.

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
			No Mud		

Casing will be pulled if possible. Metal cap will be welded over hole at surface until production decision is made.

Section 5. PLUGGING RECORD

Plugging Contractor ____

Address ____

Plugging Method ____

Date Well Plugged ____

Plugging approved by:

____ State Engineer Representative

No.
1
2
3
4

Need Permit M-4035 MG

FOR USE OF STATE ENGINEER O

Date Received August 22, 1975

Quad ____ FWL ____ FSL ____

File No. M-4035 Use Pumping test Location No. 18.14.28.123

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	452	452	Buff color Gila conglomerate.
452	906	454	Pale red-brown volcanic rock (Malpais) with sandy interbeds.

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

X L C Lomer
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, exce ection 5, shall be answered as completely a ccurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Emily McKinney Owner's Well No. _____
Street or Post Office Address 2820 Aurora
City and State El Paso, TX 79930

Well was drilled under Permit No. M-10369 and is located in the:

a. _____ ¼ NE ¼ SW ¼ SE ¼ of Section 28 Township 18S Range 14W N.M.P.M.

b. Tract No. A of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Grant County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Kuester Well Drilling Co. License No. WD 1486
Address 1930 Hilltop Rd. Silver City, NM 88061

Drilling Began 4-19-05 Completed 5-3-05 Type tools Mud-Rotary Size of hole 6¼ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 353 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 297 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
310	325	15	Conglomerate w/Red Clay Seams	3 (Pump Tested)

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6¾" OD	Schd. 40 PVC		0	20	20	Surface Casing cemented		
4" ID	Schd. 40 PVC		0	353	353	certa-lock	313	353

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

RECEIVED MAY 13 AM 10
STATE ENGINEER
DENVER, NM

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:
_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received May 13, 2005

Quad _____ FWL _____ FSL _____

File No. M-10369 Use Domestic Location No. 18.14.28.432

Depth in Feet From	To	Thickness in Feet	Color and Type of Material Encountered
0	353	353	Conglomerate w/Red Clay Seams

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Derek Kuester
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

JOHN R. D'ANTONIO, JR., P.E.
State Engineer

DEMING

216 S. Silver
Post Office Box 844
Deming, New Mexico 88031
(505) 546-2851
(505) 546-7452
Fax: (505) 546-2290

May 16, 2005

FILE: M-10369

Emily McKinney
2820 Aurora
El Paso, TX 79930

Greetings:

Enclosed is your copy of well record for Domestic Well M-10369, which has been accepted for filing.

This is the final filing for Domestic Well M-10369.

Sincerely,

R. Q. Rogers
Professional Engineer
District 3 Manager

By: Moses R. Montellano
Moses R. Montellano
Assistant Mimbres Basin Supervisor

MRM:ajm
Encl: Well Record
cc: State Engineer
034

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Bonnie Cutel + Robert Arfsten Owner's Well No.
Street or Post Office Address 18 Big Joe Rd
City and State Silver City NM 88061

Well was drilled under Permit No. m. 11094 and is located in the:

a. ___ ¼ NW ¼ NW ¼ NW ¼ of Section 34 Township 18 S Range 14 W N.M.P.M.

b. Tract No. ___ of Map No. ___ of the ___

c. Lot No. ___ of Block No. ___ of the ___
Subdivision, recorded in ___ County.

d. X= ___ feet, Y= ___ feet, N.M. Coordinate System ___ Zone in the ___ Grant.

(B) Drilling Contractor Smith Drilling Company License No. WD-792
Address P.O. Box 1668 - Silver City, New Mexico 88062

Drilling Began Oct 28 09 Completed Nov 2 09 Type tools Rotary Size of hole 6¼ in.

Elevation of land surface or ___ at well is 5721 ft. Total depth of well 320' ft.

Completed well is ☑ shallow ☐ artesian. Depth to water upon completion of well 213 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
220	320	100	Conglomerate Porous	8-10

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6¼	Sch 40	PVC	+.5	19.5	20.0	Cemented surface	Casing	
4"	"	"	+1.5	320.0	321.5	Capon Bottom	275.0	315.0

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor ___
Address ___
Plugging Method ___
Date Well Plugged ___
Plugging approved by:

___
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

2009 DEC -8 PM 3:57 DEMING, NM

FOR USE OF STATE ENGINEER ONLY

Date Received December 8, 2009

Quad ___ FWL ___ FSL ___

File No. m-11094 Use Domestic Location No. 18.14.34.111

Depth in Feet From	To	Thickness in Feet	Color and Type of Material Encountered
0	12	12	Clay + Gravel
12	60	48	Red Clay Conglomerate
60	320	260	tan Conglomerate

Section 7. REMARKS AND ADDITIONAL INFORMATION

LAT: 32° 42' 17.7"
LONG: 108° 17' 12.4"

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE OF NEW MEXICO

OFFICE OF THE STATE ENGINEER

DEMING

JOHN R. D'ANTONIO, JR., P.E.
State Engineer

216 S. Silver
Post Office Box 844
Deming, New Mexico 88031
(505) 546-2851
(505) 546-7452
Fax: (505) 546-2290

December 22, 2009

FILE: M-11094

Bonnie Ertel & Robert Arfsten
18 Big Joe Rd
Silver City, New Mexico 88061

Greetings:

Enclosed is your copy of well record for permit for Domestic Well M-11064-POD1, which has been accepted for filing.

This is the final filing for permit for Domestic Well M-11064 Pod1.

Sincerely,

Charles L. Jackson, MPA
District 3 Manager

By:
Donna M. Morton
Domestic Well Technician
Mimbres Basin

DM:dm

Encl: Well Record
cc: State Engineer
034

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2012 JUL 16 AM 11:50
OFFICE OF THE STATE ENGINEER DEMING, NM

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER): MW-4	OSE FILE NUMBER(S): M-11246-POD1
WELL OWNER NAME(S): Martin Porter	PHONE (OPTIONAL): (575) 524-8666
WELL OWNER MAILING ADDRESS: 306 South Motel Blvd	CITY: Las Cruces; STATE: NM; ZIP: 88007

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	42	42.57	N
	LONGITUDE	108	17	50.11	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
NW ¼	SE ¼	NE ¼	SW ¼	28	18 ☐ NORTH ☑ SOUTH	14 ☐ EAST ☑ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT
Tyrone, NM			

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1265	Manuel I. Duenez	Raba-Kistner Consultants

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8-24-11	8-24-11	73.0	73.0	

STATIC WATER LEVEL IN COMPLETED WELL (FT):

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

DRILLING FLUID: ☐ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY: Hollow Stem Auger/ Air Rotary

DEPTH (FT) FROM	TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0	30	9	PVC Riser	Threaded	2	.50	Riser
30	73	4.5	PVC Screen	Threaded	2	.50	0.010

4. WATER BEARING STRATA

DEPTH (FT) FROM	TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)
60	73	13	Silty,sand, brown,wet	
			with some gravel.	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER M-11246	POD NUMBER POD1	TRN NUMBER 482339
LOCATION 18S.14W.28.3.2.4.1		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	43	47	4.5	Bentonite Chips		Tremie
	47	73	4.5	Silica Sand		Tremie

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	15.0	15.0	sand,clayey,brown,gravel,moist	☐ YES ☑ NO
15.0	20.0	5.0	silty clay,lt brown, firm,moist	☐ YES ☑ NO
20.0	30.0	10.0	sand,poorly graded,lt brown,moist	☐ YES ☑ NO
30.0	50.0	20.0	silty clay,sandy,lt brown,moist	☐ YES ☑ NO
50.0	60.0	10.0	sandy clay,brown,gravel,moist	☐ YES ☑ NO
60.0	73.0	13.0	silty sand,brown,gravel,wet	☑ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

2012 JUL 11 AM 11:47
OFFICE OF THE STATE ENGINEER DENVER, NM

8. SIGNATURE

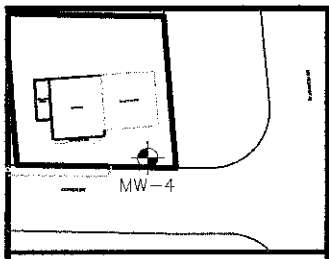
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Manuel A. Arenez — SIGNATURE OF DRILLER

7-8-12 — DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER 11-11246	POD NUMBER POD1	TRN NUMBER 482339
LOCATION 18S.14W.28.3.2.4.1		PAGE 2 OF 2



MONITOR WELL INSTALLATION REPORT

PROJECT NO.	344528	LOCATION:	CHEVRON TYRONE
WELL NUMBER:	MW-4	CITY, STATE:	TYRONE, NEW MEXICO
DATE:	8/24/11	DRILLED BY:	RABA KISTNER
LOGGED BY:	T. MEINUS	DRILLING METHOD:	H.S.A./AIR ROTARY
SEAL:	BENTONITE		

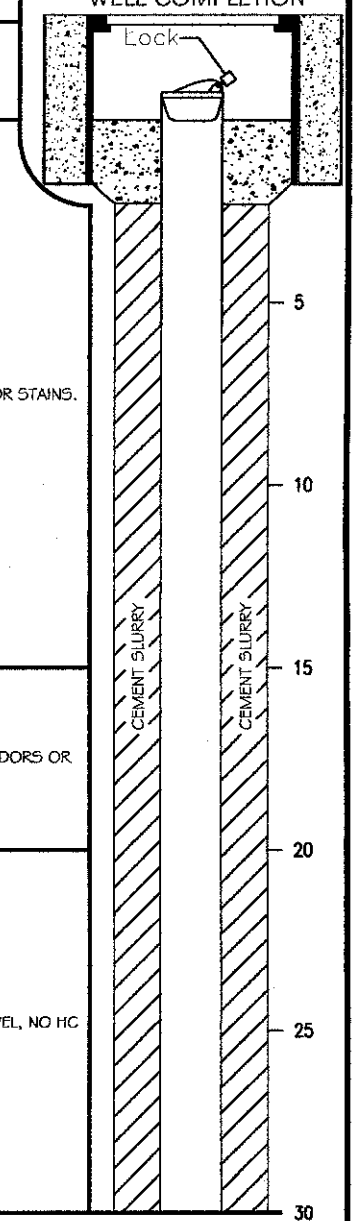
RELATIVE ELEVATION: 5703.09 | SAND PACK: SILICA SAND | BORING DIA: 8"

CASING TYPE: SCH 40 PVC | DIAMETER: 2" | LENGTH: 53' | TOTAL DEPTH: 73'

SCREEN: SCH 40 PVC | SLOT: 0.010 | DIAMETER: 2" | LENGTH: 20'

SCALE 1:5	PID / MSA	SAMPLE METHOD	ASTM CLASS.	LITHO-LOGY	SAMPLE DEPTH	LITHOLOGY / REMARKS
0						
*5	0.0		GC		0' - 15'	SAND WITH CLAY, SOME GRAVEL, NO HC ODORS OR STAINS.
10	0.0					
*15	0.0		SC		15' - 20'	SILTY CLAY, LIGHT BROWN, SOME SAND, NO HC ODORS OR STAINS.
20	0.0					
25	0.0		SP		20' - 30'	POORLY GRADED SANDS, SOME CLAY, SOME GRAVEL, NO HC ODORS OR STAINS.
*30	0.0					

WELL COMPLETION



DEPTH TO WATER DURING DRILLING FT. BGS: N/A DATE: N/A

WATER LEVEL ELEVATION FT. BGS: N/A DATE: N/A

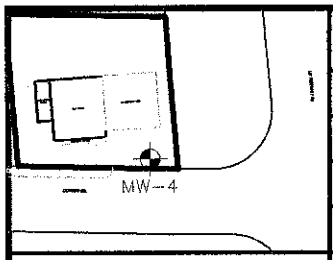
REMARKS: * = INDICATES SAMPLE WAS SUBMITTED FOR LABORATORY ANALYSIS.

▼ = ENCOUNTERED GROUNDWATER DURING DRILLING.

HOLLOW STEM AUGER 0 - 30' AND AIR ROTARY 30' - 70'.

D&H PETROLEUM & ENVIRONMENTAL SERVICES
1221 TOWER TRAIL
P.O. BOX 17969
EL PASO, TX 79917
(915) 859-8150

OFFICE OF THE STATE ENGINEER
2012 JUL 16 AM 11:50



MONITOR WELL INSTALLATION REPORT

PROJECT NO.	344528	LOCATION:	CHEVRON TYRONE
WELL NUMBER:	MW-4	CITY, STATE:	TYRONE, NEW MEXICO
DATE:	8/24/11	DRILLED BY:	RABA KISTNER
LOGGED BY:	T. MEINUS	DRILLING METHOD:	H.S.A./AIR ROTARY

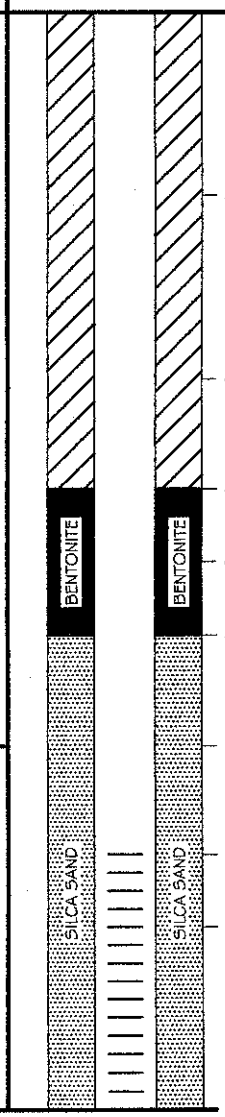
RELATIVE ELEVATION: 5703.09 SAND PACK: SILICA SAND SEAL: BENTONITE

CASING TYPE: SCH 40 PVC DIAMETER: 2" LENGTH: 53' BORING DIA.: 8"

SCREEN: SCH 40 PVC SLOT: 0.010 DIAMETER: 2" LENGTH: 20' TOTAL DEPTH: 73'

SCALE 1:5	PID / MSA	SAMPLE METHOD	ASTM CLASS.	LITHO-LOGY	SAMPLE DEPTH	LITHOLOGY / REMARKS
30						
35	0.0					
40	0.0		SC		30' - 50'	SILTY CLAY, LIGHT BROWN, SOME SAND, NO HC ODORS OR STAINS.
45	0.0					
50	0.0					
55	0.0		GC		50' - 60'	SANDY CLAY WITH SOME GRAVEL, NO HC ODORS OR STAINS.
*60	0.0					

WELL COMPLETION



DEPTH TO WATER DURING DRILLING FT. BGS: N/A DATE: N/A

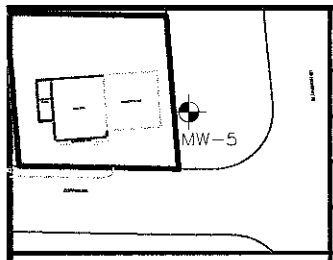
WATER LEVEL ELEVATION FT. BGS: N/A DATE: N/A

REMARKS: * = INDICATES SAMPLE WAS SUBMITTED FOR LABORATORY ANALYSIS.

▼ = ENCOUNTERED GROUNDWATER DURING DRILLING.

D&H PETROLEUM & ENVIRONMENTAL SERVICES
12211 TOWER TRAIL
P.O. BOX 17969
EL PASO, TX 79917
(915) 859-8150

OFFICE OF THE STATE ENGINEER
DEMING, NM
2012 JUL 19 AM 11:50



MONITOR WELL INSTALLATION REPORT

PROJECT NO.	344528	LOCATION:	CHEVRON TYRONE
WELL NUMBER:	MW-5	CITY, STATE:	TYRONE, NEW MEXICO
DATE:	8/24/11	DRILLED BY:	RABA KISTNER
LOGGED BY:	T. MEINUS	DRILLING METHOD:	H.S.A./AIR ROTARY

RELATIVE ELEVATION: 5703.09 SAND PACK: SILICA SAND SEAL: 2" BENTONITE

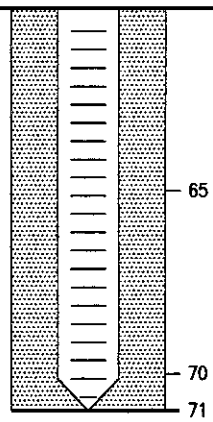
CASING TYPE: SCH 40 PVC DIAMETER: 2" LENGTH: 51' BORING DIA.: 8"

SCREEN: SCH 40 PVC SLOT: 0.010 DIAMETER: 2" LENGTH: 20' TOTAL DEPTH: 71'

SCALE 1:5	PID / MSA	SAMPLE METHOD	ASTM CLASS.	LITHO-LOGY	SAMPLE DEPTH	LITHOLOGY / REMARKS
60						
65	0.0		GM		60' - 71'	SILTY SAND WITH GRAVEL, NO HC ODORS OR STAINS.
70	0.0					
71	0.0					

TERMINATED BORING AT 71 ft.

WELL COMPLETION



D&H PETROLEUM & ENVIRONMENTAL SERVICES
1221 TOWER TRAIL
P.O. BOX 17963
EL PASO, TX 79917
(915) 859-8150

DEPTH TO WATER DURING DRILLING FT. BGS: N/A DATE: N/A

WATER LEVEL ELEVATION FT. BGS: N/A DATE: N/A

REMARKS: ✱ = INDICATES SAMPLE WAS SUBMITTED FOR LABORATORY ANALYSIS.

▼ = ENCOUNTERED GROUNDWATER DURING DRILLING.

2012 JUL 16 AM 11:50
OFFICE OF THE STATE ENGINEER
DIVISION

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
Deming

Scott A. Verhines, P.E.
State Engineer

301 South Tin Street
Post Office Box 844
Deming, New Mexico 88031
Phone: (575) 546-2851
Fax: (575) 546-2290

July 23, 2012

FILE: M-11246-POD1

Martin Porter
306 South Motel Blvd.
Las Cruces, New Mexico 88007

Greetings:

Enclosed is your copy of well record for Monitoring Well M-11246-POD1, which has been accepted for filing.

This is the final filing under Permit Monitoring Well M-11246-POD1.

Sincerely,

Charles L. Jackson, MPA
District 3 Manager

By: Samantha Montaño
Samantha Montaño
Assistant Manager
Mimbres Basin

Sm:sm
Encl: Well Record
cc: State Engineer

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
MW-5	M-11246-POD2
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
Martin Porter	(575) 524-8666
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
306 South Motel Blvd	Las Cruces / NM / 88007

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	42	42.65	N
	LONGITUDE	108	17	49.65	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
NW ¼	SE ¼	NE ¼	SW ¼	28	18 ☐ NORTH ☑ SOUTH	14 ☐ EAST ☑ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT
Tyrone, NM			

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1265	Manuel I. Duenez	Raba-Kistner Consultants

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8-24-11	8-24-11	71. 0	71.0	55.26

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY: Hollow Stem Auger/ Air Rotary

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0	30	9	PVC Riser	Threaded	2	.50	Riser
30	71	4.5	PVC Screen	Threaded	2	.50	0.010

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)
55	71	13	Silty,sand,gravel, brown,wet	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

OFFICE OF THE STATE ENGINEER DEMING, NM 2012 JUL 16 AM 11:47

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	M-11246	POD NUMBER	POD2	TRN NUMBER	482341
LOCATION	18S.14W.28.3.2.4.1			PAGE 1 OF 2	

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	44	48	4.5	Bentonite Chips		Tremie
	48	71	4.5	Silica Sand		Tremie

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	15.0	15.0	sand,clayey,brown,gravel,moist	☐ YES ☑ NO
15.0	20.0	5.0	clayey sand,dr brown, firm,moist	☐ YES ☑ NO
20.0	25.0	5.0	silty clay,lt brown,moist	☐ YES ☑ NO
25.0	35.0	10.0	silty sand ,lt brown,moist	☐ YES ☑ NO
35.0	50.0	15.0	clayey,sand,brown,moist	☐ YES ☑ NO
50.0	60.0	10.0	sand,brown,gravel,wet	☑ YES ☐ NO
60.0	71.0	11.0	silty sand,gravel,brown,wet	☑ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST

METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

2012 JUL 16 AM 11:47
OFFICE OF THE STATE ENGINEER DEMING, N.M.

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Manuel A. Arenez — SIGNATURE OF DRILLER

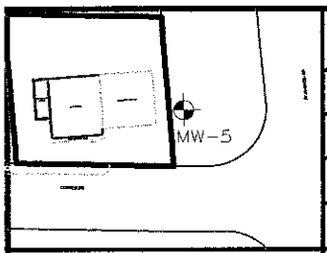
7-8-12 — DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	M-11246	POD NUMBER	POD2	TRN NUMBER	482341
LOCATION	18S.14W.28.3.2.4.1			PAGE 2 OF 2	

MONITOR WELL INSTALLATION REPORT

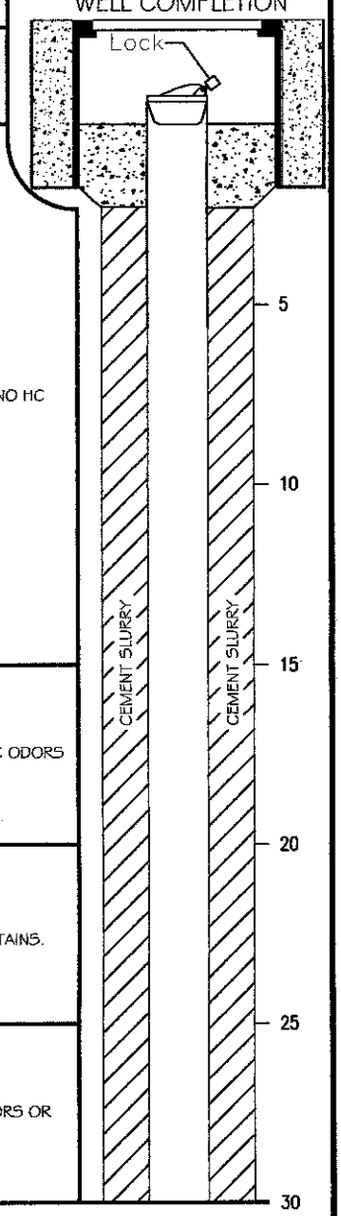
2012 JUL 16 AM 11:50
OFFICE OF THE STATE ENGINEER



PROJECT NO.	344528	LOCATION:	CHEVRON TYRONE
WELL NUMBER:	MW-5	CITY, STATE:	TYRONE, NEW MEXICO
DATE:	8/24/11	DRILLED BY:	RABA KISTNER
LOGGED BY:	T. MEINUS	DRILLING METHOD:	H.S.A./AIR ROTARY
SEAL:	BENTONITE		
RELATIVE ELEVATION:	5703.09	SAND PACK:	SILICA SAND
BORING DIA.:	8"		
CASING TYPE:	SCH 40 PVC	DIAMETER:	2"
LENGTH:	51'	TOTAL DEPTH:	71'
SCREEN:	SCH 40 PVC SLOT: 0.010	DIAMETER:	2"
LENGTH:	20'		

SCALE 1:5	PID / MSA	SAMPLE METHOD	ASTM CLASS.	LITHO-LOGY	SAMPLE DEPTH	LITHOLOGY / REMARKS
0						
*5	0.0		GC		0' - 15'	SAND WITH CLAY, SOME GRAVEL, DARK BROWN, NO HC ODORS OR STAINS.
10	0.0					
*15	0.0		SC		15' - 20'	CLAYEY SAND, DARK BROWN, SOME GRAVEL, NO HC ODORS OR STAINS.
20	0.0		GC		20' - 25'	SILTY CLAY, SOME GRAVEL, NO HC ODORS OR STAINS.
25	0.0		SM		25' - 35'	FINE SILTY SAND, MOIST, NO GRAVEL, NO HC ODORS OR STAINS.
*30	0.0					

WELL COMPLETION



DEPTH TO WATER DURING DRILLING FT. BGS: N/A DATE: N/A

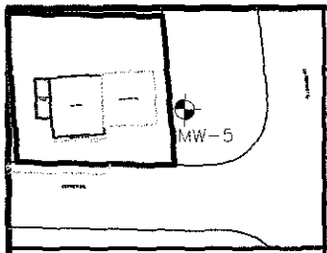
WATER LEVEL ELEVATION FT. BGS: N/A DATE: N/A

REMARKS: * = INDICATES SAMPLE WAS SUBMITTED FOR LABORATORY ANALYSIS.

▼ = ENCOUNTERED GROUNDWATER DURING DRILLING.

HOLLOW STEM AUGER 0 - 30' AND AIR ROTARY 30' - 70'.

D&H PETROLEUM & ENVIRONMENTAL SERVICES
1221 TOWER TRAIL
P.O. BOX 17969
EL PASO, TX 79917
(915) 859-8150



MONITOR WELL INSTALLATION REPORT

PROJECT NO.	344528	LOCATION:	CHEVRON TYRONE
WELL NUMBER:	MW-5	CITY, STATE:	TYRONE, NEW MEXICO
DATE:	8/24/11	DRILLED BY:	RABA KISTNER
LOGGED BY:	T. MEINUS	DRILLING METHOD:	H.S.A./AIR ROTARY

RELATIVE ELEVATION: 5703.09 | SAND PACK: SILICA SAND | SEAL: BENTONITE

CASING TYPE: SCH 40 PVC | DIAMETER: 2" | LENGTH: 51' | BORING DIA.: 8"

SCREEN: SCH 40 PVC | SLOT: 0.010 | DIAMETER: 2" | LENGTH: 20' | TOTAL DEPTH: 71'

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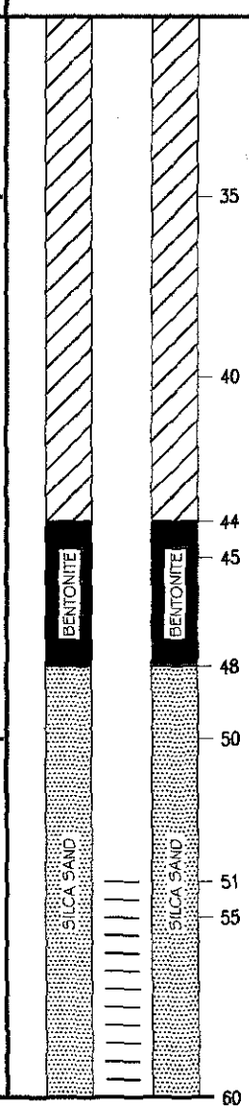
OFFICE OF THE STATE ENGINEER
DENVER

SCALE 1:5	PID / MSA	SAMPLE METHOD	ASTM CLASS.	LITHO-LOGY	SAMPLE DEPTH	LITHOLOGY / REMARKS
30						
			SM		25' - 35'	FINE SILTY SAND, MOIST, NO GRAVEL, NO HC ODORS OR STAINS.
35	0.0					
40	0.0		SC		35' - 50'	CLAYEY SAND, BROWN, MOIST, NO HC ODORS OR STAINS.
45	0.0					
50	0.0					
55	0.0		GP		50' - 60'	SAND, SOME GRAVEL, DRY, HYDROCARBON ODORS.
*60	0.0					

WELL COMPLETION



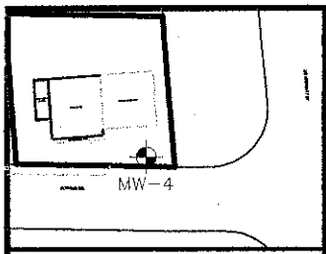
DEPTH TO WATER DURING DRILLING: FT. BGS: N/A DATE: N/A

WATER LEVEL ELEVATION: FT. BGS: N/A DATE: N/A

REMARKS: * = INDICATES SAMPLE WAS SUBMITTED FOR LABORATORY ANALYSIS.

▼ = ENCOUNTERED GROUNDWATER DURING DRILLING.

D&H PETROLEUM & ENVIRONMENTAL SERVICES
1221 TOWER TRAIL
P.O. BOX 17269
EL PASO, TX 79917
(915) 859-8150



MONITOR WELL INSTALLATION REPORT

2012 JUL 16 AM 11:50
OFFICE OF THE STATE ENGINEER
DEMING, NM

PROJECT NO.	344528	LOCATION:	CHEVRON TYRONE
WELL NUMBER:	MW-4	CITY, STATE:	TYRONE, NEW MEXICO
DATE:	8/24/11	DRILLED BY:	RABA KISTNER
LOGGED BY:	T. MEINUS	DRILLING METHOD:	H.S.A./AIR ROTARY

RELATIVE ELEVATION: 5703.09 | SAND PACK: SILICA SAND | SEAL: BENTONITE

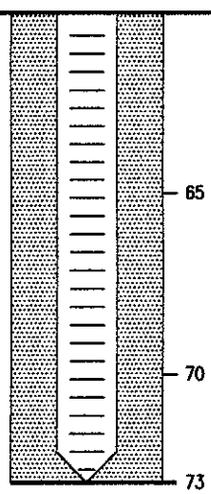
CASING TYPE: SCH 40 PVC | DIAMETER: 2" | LENGTH: 53' | BORING DIA.: 8"

SCREEN: SCH 40 PVC SLOT: 0.010 | DIAMETER: 2" | LENGTH: 20' | TOTAL DEPTH: 73'

SCALE 1:5	PID / MSA	SAMPLE METHOD	ASTM CLASS.	LITHO-LOGY	SAMPLE DEPTH	LITHOLOGY / REMARKS
60						
65	0.0		GM		60' - 73'	SILTY SAND WITH GRAVEL, NO HC ODORS OR STAINS.
70	0.0					
73	0.0					

TERMINATED BORING AT 73 ft.

WELL COMPLETION



D&H PETROLEUM & ENVIRONMENTAL SERVICES
1221 TOWER TRAIL
P.O. BOX 17969
EL PASO, TX 79917
(915) 859-8150

DEPTH TO WATER DURING DRILLING FT. BGS: N/A DATE: N/A

WATER LEVEL ELEVATION FT. BGS: N/A DATE: N/A

REMARKS: ✱ = INDICATES SAMPLE WAS SUBMITTED FOR LABORATORY ANALYSIS.

▼ = ENCOUNTERED GROUNDWATER DURING DRILLING.

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
Deming

Scott A. Verhines, P.E.
State Engineer

301 South Tin Street
Post Office Box 844
Deming, New Mexico 88031
Phone: (575) 546-2851
Fax: (575) 546-2290

July 23, 2012

FILE: M-11246-POD2

Martin Porter
306 South Motel Blvd.
Las Cruces, New Mexico 88007

Greetings:

Enclosed is your copy of well record for Monitoring Well M-11246-POD2, which has been accepted for filing.

This is the final filing under Permit Monitoring Well M-11246-POD2.

Sincerely,

Charles L. Jackson, MPA
District 3 Manager

By: Samantha Montaño
Samantha Montaño
Assistant Manager
Mimbres Basin

Sm:sm
Encl: Well Record
cc: State Engineer

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): M-11475 POD 1	OSE FILE NUMBER(S): M-11475
WELL OWNER NAME(S): Cheryl H. Jones + Courtney Berry	PHONE (OPTIONAL): 574-5514
WELL OWNER MAILING ADDRESS: P.O. Box 2603	CITY / STATE / ZIP: Silver City NM 88062

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	42	38.5	N
LONGITUDE	108	17	25.2	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE:
SW¼, NE¼, SE¼ S.28, T18S, R14W Grant County

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1486	Dere K Kuester	Kuester Well Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
2-2-16	2-15-16	432	432	360

COMPLETED WELL IS: ( ) ARTESIAN ( ) DRY HOLE (X) SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 300

DRILLING FLUID: (X) AIR ( ) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (X) ROTARY (X) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
+12"	320	8½"	Steel Casing Add.	welded	8	.188	None
320	432	6¼					
+18"	432		PVC	Certalok	4	Schd. 40	.032
					Slotted	332-432	

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

OFFICE OF THE STATE ENGINEER DEMING, NM 2016 AUG 2 PM 2:12

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER M-11475	POD NUMBER 1	TRN NUMBER 572108
LOCATION 18.14.28.423	Domestic	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	310	310	Unconsolidated Conglomerate	( ) Y (X) N	
310	360	50	hard Volcanic	( ) Y (X) N	
360	432	72	Fractured Volcanic	(X) Y ( ) N	30
				( ) Y ( ) N	
				( ) Y ( ) N	
				( ) Y ( ) N	
				( ) Y ( ) N	
				( ) Y ( ) N	
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				( ) Y ( ) N	
				( ) Y ( ) N	
				( ) Y ( ) N	
				( ) Y ( ) N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ( ) PUMP (X) AIR LIFT ( ) BAILER ( ) OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 30

5. TEST; RIG SUPERVISION

WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

2016 AUG 22 PM 2:

OFFICE OF THE STATE ENGINEER DEMING, NM

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Derek Kuester Derek Kuester — 8-16-2016

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	M-11475	POD NUMBER	1	TRN NUMBER	572108
LOCATION	18.14.28.423	Domestic			PAGE 2 OF 2

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Tom Blaine, P.E.,
State Engineer

P.O. Box 844
321 W. Spruce Street
Deming, New Mexico 88031
PHONE: (575) 546-2851
FAX: (575) 546-2290

August 26, 2016

FILE: M-11475

Cheryl H. Jones & Courtney Berry
Po Box 2603
Silver City, New Mexico 88062

Greetings:

Enclosed is your copy of well record for Domestic Well M-11475-POD1, which has been accepted for filing.

This is the final filing for Domestic Well Permit M-11475-POD1.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By:
Ben Young
Domestic Well Technician
Mimbres Basin

BY: by
Encl: Well Record
cc: State Engineer
034

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER'S OFFICE
2017 FEB -9 AM 11:

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER)	M-11556
OSE FILE NUMBER(S)	
WELL OWNER NAME(S)	Tyson Runyan & Jennifer L. Scalva
PHONE (OPTIONAL)	575-574-8527
WELL OWNER MAILING ADDRESS	297 Rosedale Rd
CITY	Silver City
STATE	NM
ZIP	88061

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32°	42	25	N
	LONGITUDE	108°	17	17	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SE1/4SE1/4SE1/4 Sect 28, Tws 18S, Rng 14W

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1513	Tyson Looney	TL Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-21-16	12-28-16	420	420	150

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 135

DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☒ ROTARY ☒ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	10						
1.0	[illegible]	12 3/4	8" PVC	Glue	8"	1/4	None
1.0	24.0	12 3/3	6 1/4 PVC	Glue	6 1/4	1/4	None
2.0	420.0	6 1/4	4" Certa-lock	Certa-lock	4"	1/4	—
320.0	420.0	6 1/4	4" pvc Certa-lock Well Screen	Certa-lock	4"	1/4	20 thous

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	10	12 3/4	Neat Cement	5	pour
18	24	12 3/4	Neat Cement	15	pump-pour
110	420	6 1/4	3/8 pea gravel	35	pour
105	110	6 1/4	neat cement	1-2	pump

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	M-11556	POD NUMBER	1	TRN NUMBER	598602
LOCATION	18.14.28.444	Domestic/Stock			

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	3		Top Soil - (Brown)	Y (N)	
3	20		~~Its~~ unstable conglomerate	Y (N)	
20	150		conglomerate	Y (N)	
150	151		(Black) Shell	(Y) N	2-3
151	385		Conglomerate	Y (N)	
385	400		Conglomerate with round gravels	(Y) N	10-12
400	420		Conglomerate	Y (N)	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☒ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 12-15 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

STATE ENGINEER'S OFFICE 2017 FEB 9 AM 11:16

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE: 1/10/17

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 10/29/2015)

FILE NUMBER	M-11556	POD NUMBER	1	TRN NUMBER	598602
LOCATION	18.14.28.444	Domestic/Stock			PAGE 2 OF 2

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Tom Blane, P.E.,
State Engineer

P.O. Box 844
321 W. Spruce Street
Deming, New Mexico 88031
PHONE: (575) 546-2851
FAX: (575) 546-2290

February 14, 2017

FILE: M-11556

Tyson Runyan & Jennifer L. Scalva
297 Rosedale Rd.
Silver City, New Mexico 88061

Greetings:

Enclosed is your copy of well record for Domestic/Stock Well M-11556-POD1, which has been accepted for filing.

This is the final filing for Domestic/Stock Well Permit M-11556-POD1.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By:
Ben Young
Domestic Well Technician
Mimbres Basin

BY:by
Encl: Well Record
cc: State Engineer
034

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEERS OFFICE
ROSWELL, NEW MEXICO

2017 FEB 23 PM 1:11

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER)	M-11557
OSE FILE NUMBER(S)	
WELL OWNER NAME(S)	Philip M. Ormand
PHONE (OPTIONAL)	575-313-2769
WELL OWNER MAILING ADDRESS	PO BOX 1465
CITY / STATE / ZIP	Silver City NM 88062

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS
LATITUDE	32	42	21.0 ~~21.62N~~
LONGITUDE	108	17	42.0 ~~42.80W~~

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

X Per New GPS Given By Driller

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

NW1/4NW1/4NE1/4 Sec 33, Tws 18S, Rng 14W

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1513	TYSON LOONEY	TL Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
01/07/17	01/15/17	353	353	252

STATIC WATER LEVEL IN COMPLETED WELL (FT): 245

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)

DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☒ ROTARY ☒ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
1.0	26	9 3/4	6 1/4 PVC Casing	Glue	6 1/4	1/4	None
2.0	353	6 1/4	4" PVC	Certa-lock	4"	1/4	-
253	353	6 1/4	4" PVC Well Screen	Certa-lock	4"	1/4	20 thous

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0.0	26	9 3/4	Neat Cement	6	pour
200	353	6 1/4	3/8 pea gravel	30	pour
190	200	6 1/4	neat Cement	3	pump

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	M-11557	POD NUMBER	1	TRN NUMBER	598816
LOCATION	18.14.33.211	Domestic			PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2		Top Soil	Y (N)	
2	22		loose g conglomerate	Y (N)	
22	252		conglomerate	Y (N)	
252	268		gravels round mixed in conglomerate	(Y) N	15-18
268	353		conglomerat	Y (N)	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☒ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 15-18 0.00

STATE ENGINEER OFFICE 2017 FEB 23 PM 1:12

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE 1/22/17

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 10/29/2015)

FILE NUMBER	M-11557	POD NUMBER	1	TRN NUMBER	598816
LOCATION	18.14.33.211	Domestic			PAGE 2 OF 2

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Tom Blaine, P.E.,
State Engineer

P.O. Box 844
321 W. Spruce Street
Deming, New Mexico 88031
PHONE: (575) 546-2851
FAX: (575) 546-2290

February 28, 2017

FILE: M-11557

Philip Ormand
Po Box 1465
Silver City, New Mexico 88062

Greetings:

Enclosed is your copy of well record for Domestic Well M-11557-POD1, which has been accepted for filing.

This is the final filing for Domestic Well Permit M-11557-POD1.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By:
Ben Young
Domestic Well Technician
Mimbres Basin

BY: by
Encl: Well Record
cc: State Engineer
034

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO

MAY 25 2023

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO: 3068 A	OSE FILE NO(S): M-11935 -POD-1
WELL OWNER NAME(S): Tyson and Jennifer Runyon		PHONE (OPTIONAL): 575-574-8527
WELL OWNER MAILING ADDRESS: PO BOX 2953		CITY: Silver City STATE: NM ZIP: 88062

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS
LATITUDE	32	42	~~30~~ 19 N
LONGITUDE	108	17	~~16~~ 18 W

Per Driller
* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO: 1513	NAME OF LICENSED DRILLER: Tyson Looney	NAME OF WELL DRILLING COMPANY: TL Drilling
DRILLING STARTED: 04-13-23	DRILLING ENDED: 04-21-23	DEPTH OF COMPLETED WELL (FT): 470
BORE HOLE DEPTH (FT): 475	DEPTH WATER FIRST ENCOUNTERED (FT): 150	

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 149 DATE STATIC MEASURED: 04-30-23

DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES SPECIFY: Quick-Foam

DRILLING METHOD: ☒ ROTARY ☒ HAMMER ☐ CABLE TOOL ☐ OTHER SPECIFY: CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
+2.0	23.0	12 7/8	8" PVC	Glue	8"	1/4	
+2.5	470	7 7/8	Sure-lock	Sure-lock	4"	1/4	
370	390	"	well-Screen	Sure-lock	4"	1/4	20 Thous
410	470	"	well-Screen	Sure-lock	4"	1/4	20 Thous

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	23	12 7/8	neat-Cement	9.72	pour-pump
100	470	7 7/8	3/8 pea Gravel	96.99 Approx 2 Tons	pour

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. M-11935	POD NO. 1	TRN NO. 734392	
LOCATION 18.14.33.222	Livestock	WELL TAG ID NO. 3068A	PAGE 1 OF 2

STATE ENGINEERS OFFICE
DEMING, NEW MEXICO

MAY 25 2023

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2	2	Top Soil	Y N	
2	15		Conglomerate (Tan)	Y N	
15	16		Clay	Y N	
16	110		Conglomerate (Tan)	Y N	
110	125		Conglomerate Brown with Tan	Y N	
125	150		Conglomerate (Red)	Y N	
150	155		Conglomerate Tan with Black	(Y) N	1-2
155	350		Conglomerate (Brown)	Y N	
350	355		Conglomerate (Red)	Y N	
355	420		Conglomerate Brown with Black	(Y) N	8
420	475		Conglomerate Brown and Tan	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:
☒ PUMP ☒ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 9-11

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE: 5/1/23

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. M-11935	POD NO. 1	TRN NO. 734392	
LOCATION 18.14.33.222	Livestock	WELL TAG ID NO. 3068A	PAGE 2 OF 2

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Mike A. Hamman, P.E.
State Engineer

321 W. Spruce Street
Deming, New Mexico 88031
PHONE: (575) 546-2851
FAX: (575) 546-2290

June 1, 2023

FILE: M-11935

Tyson Runyan
Jennifer Scalva
P.O. Box 2953
Silver City, New Mexico 88062

Greetings:

Enclosed is your copy of well record for Livestock Well M-11935-POD1, which has been accepted for filing.

Your attention is called to the permit to General Conditions of Approval and Specific Conditions of Approval, which state as follows:

14. **This permit authorizes the diversion of water for watering livestock. The total diversion of water under this permit shall not exceed 3.000 acre-feet per year.**

This is the final filing for Livestock Well Permit M-11935-POD1.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By: P. Rodriguez
Patsy Rodriguez
Domestic Well Technician III
Mimbres Basin

PR:dh
Encl: Well Record
cc: State Engineer
034

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

RECEIVED
DEC - 3 2025
Office of the State Engineer
Roswell, New Mexico

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): M-12145-POD1	WELL TAG ID NO.: 3100E	OSE FILE NO(S): M-12145
WELL OWNER NAME(S): Lois G. Lasala Catherine F Lasala		PHONE (OPTIONAL): 832-608-4350
WELL OWNER MAILING ADDRESS: 33 OLD Ranch Rd		CITY: Silver City STATE: NM ZIP: 88061

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	108	42	15.76	N
LONGITUDE	32	17	27.15	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE:
SW 1/4 NE 1/4 NE 1/4 S.33 T.18 14 West Lot 24 Oak Estates

2. DRILLING & CASING INFORMATION

LICENSE NO.: 1513	NAME OF LICENSED DRILLER: Tyson Looney	NAME OF WELL DRILLING COMPANY: TL Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10-23-25	10-28-25	478	478	240

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 240 DATE STATIC MEASURED: 10-30-25

DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES – SPECIFY: Quick-Foam

DRILLING METHOD: ☒ ROTARY ☒ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
+2.0	22.0	12 7/8	8" PVC	Glue	8"	1/4	
+2.5	478.0	7 7/8	4" Certa-lock	Certa-lock	4"		
418.0	478.0	7 7/8	4" Well-Screen Slotted	Certa-lock	4"	1/4	20 Thous

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	22	12 7/8	neat-cement	12	pour-pump

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. M-12145	POD NO. POD1	TRN NO. 789414	
LOCATION 18.14.33.223		WELL TAG ID NO. 3100E	PAGE 1 OF 2

DEC - 3 2025

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	7	7	top soil	Y N	
7	18	11	loose conglomerate with Clay	Y N	
18	25	7	Clay	Y N	
25	110	85	Conglomerate (Red)	Y N	
110	145	35	Conglomerate (Tan)	Y N	
145	240	95	Conglomerate (Red)	Y N	
240	244	4	Conglomerate with (Black) Shell	(Y) N	2-3
240	430	10	Conglomerate	Y N	
430	460	30	Conglomerate with Round gravels	(Y) N	5
460	478	18	Conglomerate Tan	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☒ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 7-8

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE: 11/24/25

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. M-12145	POD NO. POD1	TRN NO. 789414	
LOCATION 18.14.33.223		WELL TAG ID NO. 3100E	PAGE 2 OF 2

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Elizabeth K. Anderson, P.E.
State Engineer

321 W. Spruce St.
Deming, New Mexico 88030
PHONE: (575) 546-2851
FAX: (575) 546-2290

December 16, 2025

FILE: M-12145

Lois G. and Catherine F. Lasala
101 N. Corbin
Silver City, NM 88061

Greetings:

Enclosed is your copy of well record for Domestic Well M-12145-POD1, which has been accepted for filing.

This is the final filing for Domestic Well Permit M-12145-POD1.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

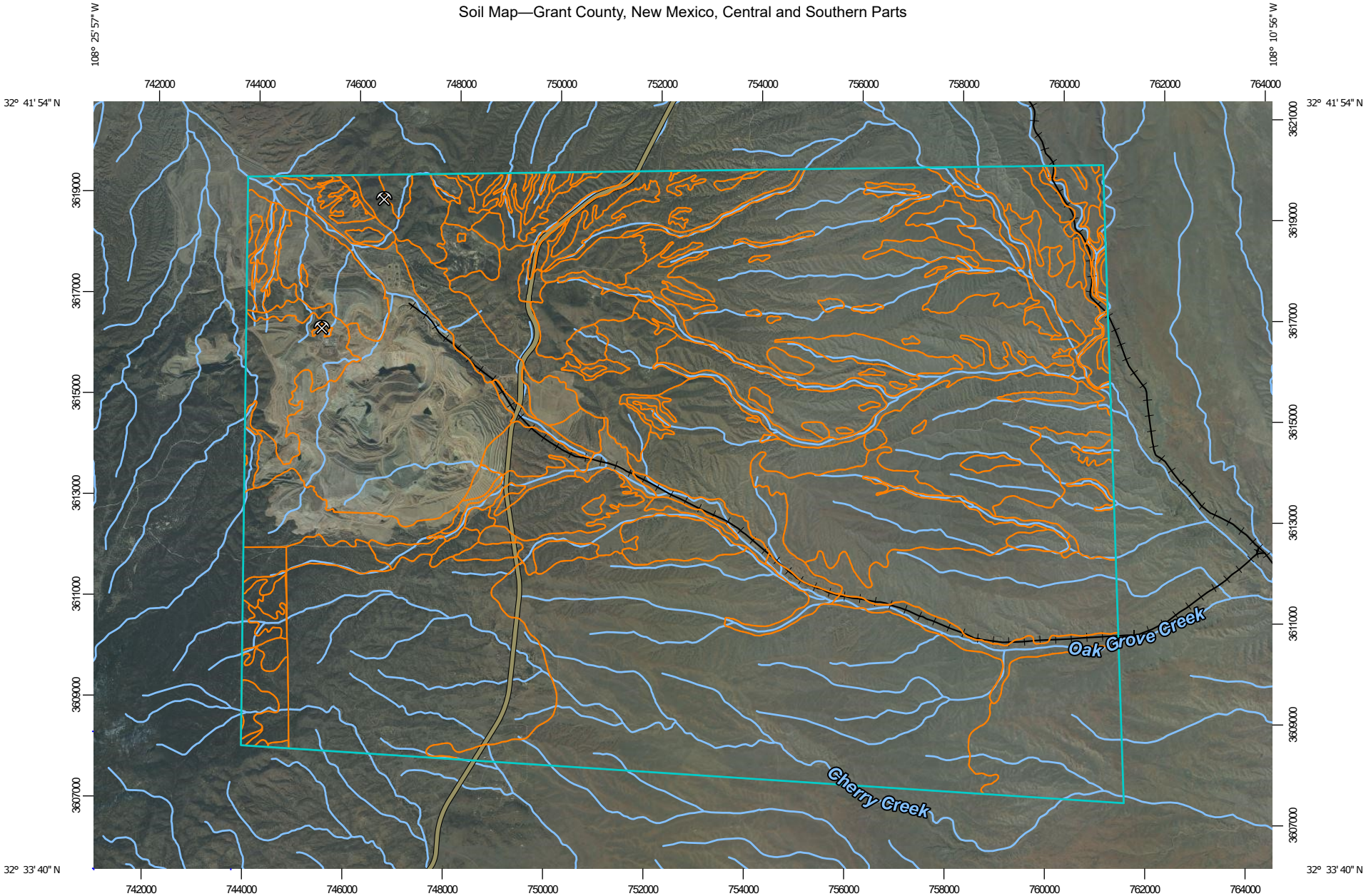
By: Jennifer Galindo
Jennifer Galindo
Supervisor, Water Resources

JG:jg
Encl: Well Record
cc: State Engineer

Appendix C

Soil Survey

DBS&A
a Geo-Logic Company



Map Scale: 1:107,000 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 1500 3000 6000 9000

Feet: 0 5000 10000 20000 30000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 12N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:48,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Grant County, New Mexico, Central and Southern Parts
Survey Area Data: Version 20, Sep 9, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 9, 2020—May 18, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2	Abrazo-Luzena complex, 15 to 45 percent slopes	71.4	0.1%
4	Boysag clay loam, 15 to 35 percent slopes	281.5	0.5%
14	Gaddes-Ruidoso complex, 3 to 15 percent slopes	52.5	0.1%
15	Gaddes-Santa Fe-Rock outcrop complex, 15 to 45 percent slopes	1,736.6	3.4%
17	Guy very cobbly loam, 15 to 35 percent slopes	2,302.1	4.5%
25	Lonti gravelly loam, 15 to 35 percent slopes	14,584.3	28.4%
26	Lonti gravelly clay loam, 0 to 8 percent slopes	3,261.4	6.4%
28	Lonti-Manzano association, 1 to 25 percent slopes	10,631.4	20.7%
32	Manzano loam, 0 to 1 percent slopes	164.4	0.3%
33	Manzano loam, 1 to 3 percent slopes	2,379.9	4.6%
34	Manzano-Ruidoso association, 0 to 5 percent slopes	170.5	0.3%
35	Mimbres-Arizo-Riverwash association, 0 to 5 percent slopes	428.7	0.8%
40	Oro Grande-Rock outcrop complex, 25 to 75 percent slopes	71.2	0.1%
41	Orthents, 25 to 60 percent slopes	8.1	0.0%
42	Paymaster gravelly sandy loam, 3 to 15 percent slopes	32.1	0.1%
43	Paymaster-Ellicott complex, 0 to 1 percent slopes	88.6	0.2%
46	Pits-Dumps association, extremely steep	3,973.3	7.7%
49	Plack variant-Guy complex, 15 to 35 percent slopes	7.0	0.0%
50	Riverwash	65.3	0.1%
52	Rock outcrop-Lithic Ustorthents complex, 15 to 65 percent slopes	2.5	0.0%
55	Ruidoso clay loam, 3 to 5 percent slopes	227.8	0.4%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
59	Santa Fe-Rock outcrop complex, 5 to 15 percent slopes	110.9	0.2%
60	Santa Fe-Rock outcrop complex, 20 to 45 percent slopes	2,718.7	5.3%
62	Santana loamy sand, 15 to 25 percent slopes	234.4	0.5%
63	Santana-Rock outcrop complex, 1 to 25 percent slopes	462.2	0.9%
64	Santana-Rock outcrop complex, 15 to 35 percent slopes	4,431.0	8.6%
70	Tres Hermanos gravelly sandy clay loam, 0 to 8 percent slopes	3.3	0.0%
73	White House-Ruidoso association, 0 to 8 percent slopes	1,901.2	3.7%
77	Lithic Haploborolls, loamy, mixed, warm, 1 to 15 percent slopes	66.0	0.1%
78	Lithic Haploborolls, loamy, mixed, warm, 15 to 40 percent slopes	67.3	0.1%
83	Lithic Haplustalfs, loamy-Skeletal, mixed, mesic-Lithic	510.5	1.0%
85	Lithic Ustorthents, lo-Sk, mixed, nonacid, mesic-Typic	6.0	0.0%
88	Typic Haplustalfs, fine, mixed, mesic-Lithic Haplustolls, loamy-Skeletal, mixed mesic complex, 15 to 40 percent slopes	11.5	0.0%
90	Udic Ustochrepts, coarse loamy-Lithic Haplustalfs, loamy-Skeletal, complex, 1 to 15 percent slopes	225.4	0.4%
Totals for Area of Interest		**51,299.5**	**100.0%**

Appendix D

Engineer's Opinion of Probable Cost

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Tyrone Water & Wastewater Association
Well Siting Study: Site 1
Preliminary Engineer's Opinion of Probable Cost

Date: 3/6/2026
Prepared by: GOG/JH
Checked by: GJM

Item No.	Item Description	Quantity	Unit	Unit Price	Extended Price
Construction Cost					
1	Mobilization and demobilization	10%	%	$ 449,300	$ 46,844
2	Construction surveying and staking	3%	%	$ 449,300	$ 13,644.00
3	Prepare SWPPP	1	LS	$ 5,500	$ 5,500
4	Site prep: 150 ft x 100 ft aggregate base course pad, 3 inch thickness	1	LS	$ 35,000	$ 35,000
5	Temporary fencing, 150 ft x 100 ft to cover well drilling pad, CIP	1	LS	$ 25,000	$ 25,000
6	Drill 20-inch diameter borehole for surface casing	50	FT	$ 330	$ 16,500
7	Low carbon steel surface casing, 16-inch O.D., 0.375-inch wall thickness	50	FT	$ 190	$ 9,500
8	Drill 12-inch (minimum) diameter borehole, air rotary method	550	FT	$ 125	$ 68,750
9	Blank casing, 8-inch O.D., HSLA Steel	420	FT	$ 175	$ 73,500
10	Screen, 8-inch O.D., HSLA steel, 0.050-inch slot	170	FT	$ 200	$ 34,000
11	12-inch diameter HSLA steel casing centralizers every 60 ft	10	FT	$ 220	$ 2,200
12	Filter pack, 10/20 gradation, silica sand	10	FT	$ 55	$ 550
13	Filter pack, 8/12 gradation, silica sand	190	FT	$ 55	$ 10,450
14	Bentonite seal	10	FT	$ 25	$ 250
15	Neat cement, placed with tremie pipe	390	FT	$ 90	$ 35,100
16	Pitless adapter	1	LS	$ 5,500	$ 5,500
17	2-inch (minimum) O.D. sounding tube	418	FT	$ 50	$ 20,900
18	Well development: surge and airlift until field parameter stabilization and acceptable turbidity, as required	24	HR	$ 750	$ 18,000
19	Well development by pumping: provide and install development pump per specifications, disinfection	16	HR	$ 500	$ 8,000
20	4-foot x 4-foot x 6-inch concrete pad and temporary locking well cap	1	LS	$ 2,500	$ 2,500
21	Furnish, install, and remove test pump with totalizer and flow meter	1	LS	$ 45,000	$ 45,000
22	Conduct step test (5 x 200 minute steps: 10, 20, 30, 40, 50 gpm	20	HR	$ 650	$ 13,000
23	Conduct constant rate test at 40 gpm	24	HR	$ 650	$ 15,600
24	Total coliform sample and analysis at accredited laboratory.(collected during constant rate pumping test)	1	LS	$ 5,000	$ 5,000
25	Video and alignment survey	1	LS	$ 5,000	$ 5,000
				Construction Subtotal	***$ 515,288***
				Contingency *25%*	***$ 128,822***
				New Mexico Gross Receipts Tax (Grant County) *6.3125%*	*$ 40,659*
				Total Construction Cost (rounded up to nearest $1,000)	**$ 684,770**
Non-Construction Cost					
26	Engineering Design	8.0%	%	$515,288	$ 41,223
27	Engineering Services during construction including on-site observation	12.0%	%	$515,288	$ 61,835
28	Permitting, Environmental, & Geotechnical Investigations	3.0%	%	$515,288	$ 15,459
				Non-Construction Subtotal	**$ 118,516**
				Contingency *25%*	***$ 29,629***
				New Mexico Gross Receipts Tax (Grant County) *6.1325%*	*$ 9,085*
				Total Non-Construction Cost (rounded up to nearest $1,000)	**$ 157,230**
				TOTAL PROJECT COST (rounded to nearest $1,000)	**$ 842,000**

DBS&A a Geo-Logic Company

Tyrone Water & Wastewater Association

Well Siting Study: Site 2

Preliminary Engineer's Opinion of Probable Cost

Date: 3/6/2026
Prepared by: GOG/JH
Checked by: GJM

Item No.	Item Description	Quantity	Unit	Unit Price	Extended Price
Construction Cost					
1	Mobilization and demobilization	10%	%	$ 472,190	$ 49,202
2	Construction surveying and staking	3%	%	$ 472,190	$ 14,330.70
3	Prepare SWPPP	1	LS	$ 5,500	$ 5,500
4	Site prep: 150 ft x 100 ft aggregate base course pad, 3 inch thickness	1	LS	$ 35,000	$ 35,000
5	Temporary fencing, 150 ft x 100 ft to cover well drilling pad, CIP	1	LS	$ 25,000	$ 25,000
6	Drill 20-inch diameter borehole for surface casing	50	FT	$ 330	$ 16,500
7	Low carbon steel surface casing, 16-inch O.D., 0.375-inch wall thickness	50	FT	$ 190	$ 9,500
8	Drill 12-inch (minimum) diameter borehole, air rotary method	630	FT	$ 125	$ 78,750
9	Blank casing, 8-inch O.D., HSLA Steel	250	FT	$ 175	$ 43,750
10	Screen, 8-inch O.D., HSLA steel, 0.050-inch slot	420	FT	$ 200	$ 84,000
11	12-inch diameter HSLA steel casing centralizers every 60 ft	12	FT	$ 220	$ 2,640
12	Filter pack, 10/20 gradation, silica sand	10	FT	$ 55	$ 550
13	Filter pack, 8/12 gradation, silica sand	450	FT	$ 55	$ 24,750
14	Bentonite seal	10	FT	$ 25	$ 250
15	Neat cement, placed with tremie pipe	210	FT	$ 90	$ 18,900
16	Pitless adapter	1	LS	$ 5,500	$ 5,500
17	2-inch (minimum) O.D. sounding tube	300	FT	$ 50	$ 15,000
18	Well development: surge and airlift until field parameter stabilization and acceptable turbidity, as required	24	HR	$ 750	$ 18,000
19	Well development by pumping: provide and install development pump per specifications, disinfection	16	HR	$ 500	$ 8,000
20	4-foot x 4-foot x 6-inch concrete pad and temporary locking well cap	1	LS	$ 2,500	$ 2,500
21	Furnish, install, and remove test pump with totalizer and flow meter	1	LS	$ 45,000	$ 45,000
22	Conduct step test (5 x 200 minute steps: 10, 20, 30, 40, 50 gpm	20	HR	$ 650	$ 13,000
23	Conduct constant rate test at 40 gpm	24	HR	$ 650	$ 15,600
24	Total coliform sample and analysis at accredited laboratory (collected during constant rate pumping test)	1	LS	$ 5,000	$ 5,000
25	Video and alignment survey	1	LS	$ 5,000	$ 5,000
				Construction Subtotal	***$ 541,223***
			Contingency	*25%*	***$ 135,306***
			New Mexico Gross Receipts Tax (Grant County)	*6.3125%*	*$ 42,706*
				Total Construction Cost (rounded up to nearest $1,000)	**$ 719,234**
Non-Construction Cost					
26	Engineering Design	8.0%	%	$541,223	$ 43,298
27	Engineering Services during construction including on-site observation	12.0%	%	$541,223	$ 64,947
28	Permitting, Environmental, & Geotechnical Investigations	3.0%	%	$541,223	$ 16,237
				Non-Construction Subtotal	**$ 124,481**
			Contingency	*25%*	***$ 31,120***
			New Mexico Gross Receipts Tax (Grant County)	*6.1325%*	*$ 9,542*
				Total Non-Construction Cost (rounded up to nearest $1,000)	**$ 165,144**
				TOTAL PROJECT COST (rounded to nearest $1,000)	**$ 884,000**

DBS&A a Geo-Logic Company

Tyrone Water & Wastewater Association
Well Siting Study: Site 3
Preliminary Engineer's Opinion of Probable Cost

Date: 3/6/2026
Prepared by: GOG/JH
Checked by: GJM

Item No.	Item Description	Quantity	Unit	Unit Price	Extended Price
Construction Cost					
1	Mobilization and demobilization	10%	%	$ 397,410	$ 41,500
2	Construction surveying and staking	3%	%	$ 397,410	$ 12,087
3	Prepare SWPPP	1	LS	$ 5,500	$ 5,500
4	Site prep: 150 ft x 100 ft aggregate base course pad, 3-inch thickness	1	LS	$ 35,000	$ 35,000
5	Temporary fencing, 150 ft x 100 ft to cover well drilling pad, CIP	1	LS	$ 25,000	$ 25,000
6	Drill 20-inch diameter borehole for surface casing	50	FT	$ 330	$ 16,500
7	Low carbon steel surface casing, 16-inch O.D., 0.375-inch wall thickness	50	FT	$ 190	$ 9,500
8	Drill 12-inch (minimum) diameter borehole, air rotary method	450	FT	$ 125	$ 56,250
9	Blank casing, 8-inch O.D., HSLA steel	200	FT	$ 175	$ 35,000
10	Screen, 8-inch O.D., HSLA steel, 0.050-inch slot	290	FT	$ 200	$ 58,000
11	12-inch diameter HSLA steel casing centralizers every 60 ft	8	FT	$ 220	$ 1,760
12	Filter pack, 10/20 gradation, silica sand	10	FT	$ 55	$ 550
13	Filter pack, 8/12 gradation, silica sand	320	FT	$ 55	$ 17,600
14	Bentonite seal	10	FT	$ 25	$ 250
15	Neat cement, placed with tremie pipe	160	FT	$ 90	$ 14,400
16	Pitless adapter	1	LS	$ 5,500	$ 5,500
17	2-inch (minimum) O.D. sounding tube	200	FT	$ 50	$ 10,000
18	Well development: surge and airlift until field parameter stabilization and acceptable turbidity, as required	24	HR	$ 750	$ 18,000
19	Well development by pumping: provide and install development pump per specifications, disinfection	16	HR	$ 500	$ 8,000
20	4-foot x 4-foot x 6-inch concrete pad and temporary locking well cap	1	LS	$ 2,500	$ 2,500
21	Furnish, install, and remove test pump with totalizer and flow meter	1	LS	$ 45,000	$ 45,000
22	Conduct step test (5 x 200 minute steps: 10, 20, 30, 40, 50 gpm	20	HR	$ 650	$ 13,000
23	Conduct constant rate test at 50 gpm	24	HR	$ 650	$ 15,600
24	Total coliform sample and analysis at accredited laboratory (collected during constant rate pumping test)	1	LS	$ 5,000	$ 5,000
25	Video and alignment survey	1	LS	$ 5,000	$ 5,000
				Construction Subtotal	***$ 456,497***
			Contingency	*25%*	***$ 114,124***
			New Mexico Gross Receipts Tax (Grant County)	*6.3125%*	*$ 36,020*
				Total Construction Cost (rounded up to nearest $1,000)	**$ 606,642**
Non-Construction Cost					
26	Engineering Design	8.0%	%	$456,497	$ 36,520
27	Engineering Services during construction including on-site observation	12.0%	%	$456,497	$ 54,780
28	Permitting, Environmental, & Geotechnical Investigations	3.0%	%	$456,497	$ 13,695
				Non-Construction Subtotal	**$ 104,994**
			Contingency	*25%*	***$ 26,249***
			Tax	*6.0000%*	*$ 7,875*
				Total Non-Construction Cost (rounded up to nearest $1,000)	**$ 139,117**
				TOTAL PROJECT COST (rounded to nearest $1,000)	**$ 746,000**