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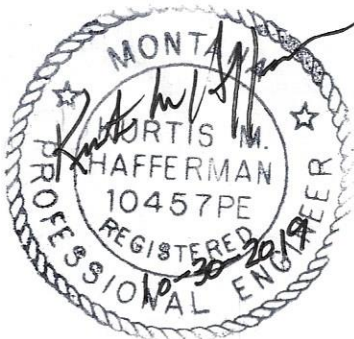
**Source Water Delineation and Assessment Report and
Public Water Supply Report-5 and Public Water Supply- 6 Report**

**Timbrshor PWS
Finley Point, Lake County, Montana
Timbrshor HOA**

October 30, 2019

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Acknowledgement

Source Water Delineation and Assessment Report and Public Water Supply Report-5 and Public Water Supply- 6 Report

PWS Name: Timbrshor PWS
PWS Location: Finley Point, Lake County, Montana
PWS Owner: Timbrshor HOA
 Attn. Blake Johnson, President
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Report Date: October 22, 2019

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1. Introduction:

This Source Water Delineation and Assessment (SWDAR) and Public Water Supply-6 (PWS-6) report is being prepared to assess the potential sources of contamination to a new groundwater Public Water Supply created to provide drinking water to an existing subdivision. The Timbrshor – Borchers of Finley Point Condominium Subdivision (Subdivision) is located northeast of the town of Polson, Montana at the north end of Finley Point on the east side of Flathead Lake. The property is physically described as Borchers of Finley Point Lot 3, Section 7, Township 23 North, Range 19 West, P.M., M.; Lake County, Montana.

The Subdivision intends to use one (1) existing well and to develop five (5) other new wells to create six (6) transient, non-community well systems. The system will serve a total of forty-seven (47) connections.

The owner of the all the new systems will be the Timbrshor Homeowners Association (THOA) and the systems will be managed by the Timbrshor/Lake County Water & Sewer District. The Timbrshor/Lake County Water & Sewer District is listed by the State of Montana, Local Government Services, as local government entity number 102414ⁱ

1.1 Purpose:

The Subdivision was created in July of 1977 and the original Certificate of Subdivision Plat Approval (COSA) number 24-77-K902, of July 27, 1977 specified a surface water (Flathead Lake) water diversion, treatment, storage and distribution system. The system was never constructed and instead the unit owners developed approximately 22 individual points of diversion using submersible pumps and various pipeline withdrawal systemsⁱⁱ. On January 9, 2018 the THOA was informed by the Montana Department of Environmental Quality (MDEQ) that the Subdivision failed in the

construction of the approved water system and that thirty (30) of the units must be to be connected to a community water supply system. All these units, whether built or non-built, are required to seek an approvable solution to their water supply. Individual surface water intakes are not allowed by current DEQ Subdivision lawsⁱⁱⁱ.

The Timbrshor Homeowners Association (THOA) has engaged Hafferman Engineering Inc (HEI) to design, permit and construct a new groundwater well system to meet State requirements and to rewrite the COSA to reflect the changes in the water system. HEI is following the Montana Department of Environmental Quality (MDEQ) Circular 3 Standards for Small Water Systems August 8, 2014 Edition (Cir. 3) In Cir. 3, part 1.1, Design Report, which requires, in part 1.1.6. that the sources of water supply be describe in the design report. The report must include the proposed source or sources of water supply. This section of the Circular goes on to state that a preliminary assessment must be completed for proposed ground water sources that may be under the direct influence of surface water prepared in accordance with Department Circular PWS-5, "Assessment of Ground Water Sources Under the Direct Influence of Surface Water;" and a source water assessment report must be prepared in accordance with Department Circular PWS-6^{iv}.

In addition, the Safe Drinking Water Act (SDWA) was established by federal government to set drinking water standards and health goals, and the Montana Source Water Protection Program (SWPP) was created to manage the federal program and help protect public water supply systems from sources of contamination. The Federal regulations (Safe Drinking Water Act) and Montana State regulations (Montana Source Water Protection Program) require a PWS-6 report for all new public water supply systems.

The purpose of this report is to provide the PWS-5 report to assess the groundwater sources to determine if they are under the direct influence of surface water and provide the PWS-6 source water delineation and assessment report to meet the design report requirements of Cir. 3, the SDWA, the Montana SWPP.

2. PWS Information:

2.1 Background Information

2.1.1 Location

The Timbrshor – Borchers of Finley Point Condominium Subdivision (Subdivision) is located northeast of the town of Polson, Montana at the north end of Finley Point on the east side of Flathead Lake. The property is physically described as Borchers of Finley Point Lot 3, Section 7, Township 23 North, Range 19 West, P.M., M.; Lake County, Montana. A map of the location of the Subdivision is provided in Appendix A.

The community of Polson is approximately 10.8 miles west of the Subdivision following Montana Highway 35, and Finley Point Road and is approximately a twenty-five-minute drive. The community of Polson is approximately 5,000 people and is the county seat for Lake County^v. Polson

is the closest source for supplies and resources and has approximately 743 businesses^{vi}. Polson is a lake shore community that is located on the Flathead Indian Reservation and is the trading center for one of most fertile farming areas in Montana. This prime cherry growing region is home to dozens of orchards...(and in) the summertime, temperatures range from 80 to 95 degrees^{vii}.

The Subdivision is on the northwest end of Finley Point on a peninsula near the south end of Flathead Lake. The shore of Flathead Lake makes up the north side boundary of the Subdivision. The west, east and south side of the subdivision is bounded by private rural improved properties and county roads. On the south and west side, the Subdivision is are separated from private land by a shared access from a private road, Snowberry Lane. The subdivision is land locked on the east side by private properties. The elevation of the Subdivision varies from the high point of 2985 ft. (MSL NAVD 1988 datum) on the west side of the subdivision to 2920 ft. in lower areas on the east side and the lowest property boundary is 2898 ft. on the east side.

2.1.2 PWS Subdivision Community

The THOA Subdivision is a condominium property subdivision in which each unit owner owns the property within the drip-line of the roof and deck of the unit and all other property is community owned. The original condominium subdivision consisted of fifty-six (56) building sites, or units, of which seven (7) were eventually listed by either the Lake County Commissioners (LCC) or the developer or both as “not to be developed”. The existing list of units includes a total of forty-nine (49) units that are either developed or yet to be developed. One of the 49 dwellings include the original Borchers Lodge (Lodge) structure which is now a single family four-bedroom residence. Of the 49 units, two sites are double or duplex units, leaving a total of 47 developable sites that were used to calculate water demand.

2.1.3. PWS Subdivision Community Served

In November of 2017, the THOA Board requested that MDEQ identify the COSA non-compliant units with the Subdivision. The THOA also requested that the MDEQ consider allowing individual surface water withdrawal and treatment as an option to become COSA complaint. On January 9, 2018 the MDEQ provided the THOA Board with a Memorandum outlining the units in the Subdivision that were and were not COSA complaint. A copy of the MDEQ Memorandum is included in Appendix A.

The THOA, HEI and the MDEQ have identified 30 of the 47 sites that are required to be COSA compliant. The sites are a combination of 13-developed lots with a variety of single and multi-family residences that range in size from 2 to 5-bedroom units and 17-vacant lots. The remaining 17 sites were all developed before the 1977 COSA was approved with a variety of single and multi-family residences and are not subject to MDEQ COSA compliance.

The THOA Board developed a Water Plan intended to meet the current MDEQ regulations and meet the requirements of the THOA by-laws. The THOA Board directed HEI to provide plans and specifications of the construction of an adequate water supply system that would be MDEQ complaint and allow for the rewriting of the Certificate of Subdivision Approval to meet current

regulations. The plan was provided as the scope of work for HEI. The THOA Plan was passed in the 2018 Annual THOA meeting. A copy of the THOA Plan is included in Appendix A. The plan calls for supplying a groundwater system connection for all forty-seven (47) developed or developable sites. A map showing the location of the proposed PWS wells to serve the Subdivision is also included in Appendix A.

2.1.4. PWS Geographic Setting

The mountains to the east of Polson are the Mission Mountains and the Subdivision lies near the foothills area of the Mission range. The Mission area includes part of the north-trending, intermontane valley bounded by the Salish Mountains to the west, the Mission Range to the east, and the Jocko Hills to the south; the northern boundary is the north shore of Flathead Lake and the Polson moraine marks the southern boundary of this setting. The Flathead River empties into Flathead Lake on the north shore 2 miles west of Bigfork. The hills that compose the land south of Polson is known as the Polson moraine which is an accumulation of till and other glacial deposits that was deposited at the most southern end of the Flathead glacier. The Flathead River below Kerr Dam drains the area and marks most of its western boundary. The valley floor generally slopes to the south-southwest toward the Flathead River, away from the Polson moraine and southward to where the Flathead River exits the valley at altitude 2,600 ft^{viii}.

HEI queried the Montana Digital Atlas (MDA) to identify the protection region boundaries. The MDA parcel identification, the list of wells from the Groundwater Information Center (GWIC) database, the septic density reporting and land use characteristics for a one-mile radius around this setting. The map of the area queried and the report generated for the layers queried within the search area are attached in Appendix B.

The land use near the Subdivision is a mixture of rural improved property, rural vacant property, rural farmsteads which are typically cherry orchards, vacant and improved Confederated Salish and Kootenai Tribal (CSKT) property and rural condominiums associated to the Subdivision. Many of the neighboring properties are used as second homes or seasonal recreational property and are typically occupied from late May until early September.

The predominant commercial operation is cherry orchards and there are three (3) within 0.35 miles of the setting of this property. There are no commercial operations within the Subdivision.

2.1.5 Geologic Setting

The Flathead Lake area is characterized in the Montana Groundwater Assessment Atlas 2 (MGAA 2), Groundwater Resources of the Flathead Lake Area: Flathead, Lake, Sanders and Missoula Counties by “...*high mountain ranges including the Salish Range on the west and the Mission range on the east. The oldest rock unit in the Mission region, the Precambrian Belt Supergroup (1.4 to 1.5 b.y. old), is a thick sequence of metasedimentary rocks that forms the mountains and underlies the valleys throughout the area. The Belt rocks are generally fine-grained clastic rocks (sandstone, siltstone, and mudstone) and carbonate rocks (limestone and dolomite) that have been subjected to low-grade metamorphism. Because the Belt rocks are consistently well-consolidated, and they are*

referred to as a bedrock (in the MGAA 2 report). Where exposed, they are commonly fractured, and display bedding surfaces^{ix}.

Belt Supergroup bedrock is characterized by numerous stratigraphic units composed mainly of metamorphosed siltstones, carbonates and quartz sandstones (Johns 1970, Wilson 1986, and others 1986 and 1992) and minor amounts of igneous rocks (McGimsey 1985). Most bedding thickness range from less than 1 inch in metasilstones to a few feet to tens of feet in metacarbonates and quartzites^x.

The Subdivision is within the Flathead Lake perimeter area of the east side of Flathead Lake. The land surface on the east and west edges of Flathead Lake rises from the lake surface to mountain peaks. The land surface rises from the east side of the lake to peaks of more than 7,000 ft in the Mission Range. West of the lake, topography has less relief and peaks are generally only about 4,000 ft above sea level. Most development of the ground-water resource is within a few miles of the lake^{xi}.

The MGAA 2 goes on to state that “ Bedrock underlies all of the surficial deposits and is the primary aquifer in the Flathead Lake perimeter; almost 80 percent of all wells are completed in bedrock. The bedrock aquifer is relatively evenly developed on the east and west sides of the lake; about 1,100 wells have been drilled on the west and about 400 wells on the east (the east side of the lake has about half of the shoreline miles as the west side). The bedrock aquifer produces water from fracture permeability. The occurrence of saturated fractures is variable, causing some wells to be deeper than 1,000 ft, although the overall median depth is 240 ft. Wells are generally deeper on the west side of the lake (median depth 255 ft) than on the east side (median depth 200 ft).Yields from the bedrock are not as high as those from the alluvial aquifers but are generally adequate for domestic uses; the maximum reported yield is 850 gpm, and the median is 20 gpm.....Despite the difference in median well depths in the bedrock aquifer on either side of the lake, there is little difference in median well yields.

2.1.6 Hydrogeology

HEI has completed research of well logs near the subdivision and within Finley Point. A list of all well logs researched, and their characteristics is included in Table 3 below. The wells are all noted as having been completed in bedrock as it is close to or at the land surface in most of the Finley Point area. The well logs reference either Belt Supergroup or Middle Belt Carbonate. As shown in Table 3 depths for wells completed in bedrock are variable, ranging from near to 100 to more than 400 ft, but no depth is most common. About 20 percent of wells completed in in the Flathead Lake perimeter in bedrock are more than 500 ft deep.

HEI completed specific hydrogeology research using well logs from two (2) on-site and near-by wells with known performance. HEI used six (6) other well logs from near-by neighboring properties. The well logs used are provided in Appendix C. HEI used the well logs to calculate hydraulic conductivity from the well log pumping test data using the modified Cooper-Jacob Equation (Driscoll, 1986). The hydraulic conductivity is calculated from the transmissivity divided by the aquifer thickness. Aquifer thickness was dependent on whether the well is completed with a

perforated casing, an open bottom or an open hole. The aquifer thickness for a perforated or screened well is the perforation/screen thickness (Morgan, et. al., 2007). The open bottom well is assumed to have a thickness of 10 feet and the open hole is between the bottom of casing and the bottom of borehole.

One well is developed within the Subdivision that serves the McCarthy residence, unit 317. The well has had over 30 years of continuous service and the current owner, Dan McCarthy reports that the well has performed without loss of water. The well was developed by Richard Cannon on March 29, 1985. The well log for the Cannon well is provided in Appendix C. The well was drilled to a total depth of 403 ft. below ground surface (bgs) and water was first encountered at 365 ft. bgs and the static water level (SWL) was 98 ft. bgs. HEI assumes this well is developed in a confined aquifer. The well log reports that there are ¼ in. by 6 in. slots from 323 ft. to 343 ft. The pumping rate was 15 gpm and the pumping water level was 300 ft. bgs after 3 hours. The hydraulic conductivity was found to be low at 1.0 ft./day.

The second well of known performance serves the Novinski property on the east boundary of the subdivision. The current owner Dan Novinski reports that the well has a continuously high flow rate and has been used to irrigate a cherry orchard continuously for several hours without loss of water. The well currently serves a 0.67 acres cherry orchard. The well was developed on June 24, 1998 by Laurry Bishop. The well log is provided in Appendix C. The well was drilled to a total depth of 115 ft. bgs and water was first encountered at 110 ft. bgs and rose to a static water level of 55 ft. bgs. HEI assumes this well is developed in a confined aquifer. The well log reports that there are 0.02 in. factory slots from 95 ft. to 115 ft. The pumping rate was 50 gpm and the pumping water level was 80ft. bgs after 1 hours. The hydraulic conductivity was found to be 90.7 ft./day.

In 2004 Rowland Environmental Consulting (REC) completed research on three (3) wells located 1.6 miles south of the Subdivision at the John Fox well, GWIC ID no. 156680, the Feist well, GWIC 177502 and the Huard well, GWIC 77579. A survey was conducted to obtain static water level and location, data was input into a three-point calculation for groundwater flow direction and groundwater gradient. REC provided a table of hydraulic conductivity values for the group of three wells investigated by REC, also provided a water quality test for background nitrate and the calculations of groundwater flow direction and groundwater gradient. A copy of the REC data is provided in Appendix C.

2.2 Public Water Supply System Demand Information

HEI has determined that these are public water supply system wells, but they are not a community water system. These are a maximum of three (3) year around residents and the other units are seasonal units that do not have occupants for more than 3 to 4 months each year. The wells within the Subdivision are defined by HEI as Transient non-community” (TNC) wells because they will not regularly serve at least 25 of the same persons for at least 6 months a year.

HEI has determined locations for five (5) new TNC groundwater wells and a means to use one (1) existing groundwater well as a TNC well to develop a compliant Public Water Supply system for the

forty-seven (47) individual connections. The HEI defined THOA PWS system wells are designated as Well 4, the McCarthy Well, Well 5, Well 9, Well 6 and Well 8. A map of all well locations and neighboring properties are provided in Appendix C. Also shown in Appendix C is the map of the well location showing the proximity to the septic systems and mixing zones.

It is to be noted that this groundwater well system is designed to meet the domestic water supply needs and is not intended to be used for lawn, garden or other watering outside the residential structure. The peak flow for domestic water supply per connection served is assumed to be 3 gpm.

Table 1 below provides the well name, well location, number of connections served and anticipated water demand including peak flow in gallons per minute (gpm), daily demand in gallons per day and average daily flow in gpm. The distance to the nearest septic system component is shown in the last column.

Table 1: THOA Well Descriptions and Daily Water Demand

Well Name	Location	Connections	Peak Flow (gpm)	Average Daily Demand (gal.)	Average Daily Flow (gpm)	Distance to Nearest WWTS Component
McCarthy	47°46' 12.40" 114°05' 21.35"	4	12	1000	0.694	52 ft. Septic Tank
Well 4*	47°46' 10.77" 114°05' 24.97"	20	60	5000	3.472	100 ft. Drainfield
Well 5	47°46' 10.30" 114°05' 13.59"	5	15	1250	0.868	100 ft. Drainfield
Well 9	47°46' 10.48" 114°05' 14.95"	8	24	2000	1.389	153 ft. Drainfield
Well 6	47°46' 15.70" 114°05' 10.99"	8	24	2000	1.389	255 ft. Septic Tank
Well 8	47°46' 21.07" 114°05' 12.23"	2	6	500	0.347	84 FT. Septic Tank

*Well 4 will require storage tanks and pumps in storage to meet peak demand.

The McCarthy well is the only existing Subdivision well where there is a well log available. There is a well that is developed near to Well 6 on the Novinski property and that well log is also available. The well log for the McCarthy and Novinski property were used to predict the potential depth of the remaining four (4) wells. The well logs are provided in Appendix C.

2.3 General Water Quality

The water quality for the existing McCarthy well was tested in November of 2015 by conducting an analysis of the nitrate and nitrite total. Results showed that the nitrate concentration was 0.13 mg/L and the nitrite was not detectable. In 2004 a nitrate-nitrite test was conducted by Rowland Environmental Consulting (REC) for a well located 1.6 miles south of the Subdivision at the John Fox well, GWIC ID no. 156680. The results showed that the specific conductance was 294

umhos/cm and the total nitrate and nitrite concentration was 0.10 mg/L. In October of 1996, the GWIC conducted a water quality test on the Robert Armine well, GWIC ID no. 77520. A series of water quality tests were conducted including nitrate-nitrite, which was reported as not detectable, the specific conductance was 529 umhos/cm and the field pH was 7.24.

The McCarthy water quality results, the REC water quality results and the Armine well log and water quality test results are provided in Appendix D.

Based on the review of the McCarthy, REC and Armine analytical test results and review of well logs in the general area of the Subdivision, water quality for the deeper wells in the sections near or around section 7, Township 23 North 19 West has a low total nitrate-nitrate and the concentrations over time from tests in 1995, 2004 and 2015 show the results have remained consistently low. Based on the Armine well tests in 1996, the pH range is near to neutral and the Fox and Armine wells show specific conductance ranges from approximately 300-500 umhos/cm. Conductivity and salinity have a strong correlation. The Administrative Rules of Montana, section 17.30.1006 Classifications, Beneficial Uses, and Specific Standards For Ground Waters states, in part (1) that Class I ground waters are those ground waters with a natural specific conductance less than or equal to 1,000 umhos/cm at 25°C.

Therefore, the general water quality for the Subdivision is categorized as Class 1 groundwater and is suitable for the intended purpose to supply domestic water to the Subdivision.

3. Source Water Protection Area Delineation

The aquifer system is confined therefore, in accordance with the SWPP, the delineation for the inventory zone for a TNC well is a 100-foot fixed radius well control zone and 1-mile inventory zone around a TNC public water supply well.

3.1 Method of Defining Aquifer Properties

The method of determining the aquifer characteristics was based on HEI research of well logs and development of hydraulic conductivity from well logs found in the area of the Subdivision. HEI used the hydraulic conductivity values to interpret the nature of groundwater conditions from the table of saturated hydraulic conductivity (K) values found in *Hydraulics of Groundwater*^{xii}.

HEI also relied on the use of data from previous THOA consultant work by Rowland Environmental Consulting (REC) in 2004. The REC 2004 data is provided in Appendix D. Aquifer characteristics are provided in Table 2 below. Table 3 provides the anticipated aquifer characteristics for well developed in the Subdivision and Table 4. Provides the anticipated well depths and yield.

Table 2. Model Input-Aquifer Characteristic data

Site Name	GWIC ID	TD (ft.)	SWL (ft. bgs)	PWL (ft. bgs)	Geologic Formation	Q (gpm)	Q ft ³ /day	Drawdown (s) (ft.)	T (ft ² /day)	Aquifer Thickness (ft.)	K (ft./day)
Cannon (McCarthy)	77517	403	98	300	Middle Belt Carbonate	15	2888	202	199.68	20	10.0
Bishop (Novinski)	168825	115	55	80	Belt Supergroup	50	9626	25	1813.92	20	90.7
Woodahl	77518	180	20	94	Middle Belt Carbonate	25	4813	74	551.01	10	55.1
Turner	143247	283	8	210	Middle Belt Carbonate	10	1925	202	152.17	10	15.2
McCormick	94427	210	18	100	Belt Supergroup	40	7701	82	704.78	10	70.5
McLaughlin	268468	345	60	340	UNKNW	25	4813	280	225.92	40	5.6
Hern	152788	305	10.5	303	Middle Belt Carbonate	19	3658	292.5	182.55	38.4	4.8
Metz	150667	240	28	150	Middle Belt Carbonate	25	4813	122	394.17	40	9.9
Average K											32.72
Average Aquifer Thickness											23.55
Average Flow Rate											26
High Flow Rate											50

Table 3. Anticipated THOA PWS Aquifer Characteristics

Aquifer Characteristics	Value range	Reference
Pumping Rate	27 gpm	Cannon and Bishop Well Logs
Porosity	Semi pervious	Reference xiii
Hydraulic Conductivity	30 ft/day	Calculated from Well Log Pumping Data
Aquifer Thickness	10 ft. to 40 ft.	Well Log Research
Hydraulic Gradient	0.0031 ft/ft	REC reference Appendix E SWL Measurements
Groundwater Flow Direction	240° WSW	Interpolated from REC Appendix E Map

Table 4 Anticipated THOA PWS Well Depth and Yield

Well Name	Well Elevation (MSL 88 datum)	Total Depth (ft.)	Bottom of Well Elevation (ft. MSL 88 datum)	Distance Below Flathead Lake Full Pool Elevation (2895.6 ft. MSL 88 datum)	Yield (gpm)
McCarthy	2995	405	2590	-305.573	15.0
Well 4*	2994	400	2594	-301.573	15.0
Well 5*	2944	354	2590	-305.573	15.0
Well 9*	2944	354	2590	-305.573	15.0
Well 6**	2958	115	2843	-52.573	50.0
Well 8**	2945	102	2843	-52.573	50.0
	Average Depth	288		Average Pumping Rate	27

*Well Characteristics are Based on McCarthy Well Log

**Well Characteristics Based on Novinski Well Log

HEI research resulted in an average hydraulic conductivity value of 33 ft/day as shown in the Table 3. The maximum reported yield determined by HEI is 50 gpm, the average is 27 gpm and the lowest yield was 10 gpm as shown in the Table 5 above. Yields from bedrock wells in the Flathead Lake perimeter have been reported as high as 2,000 gpm^{xiii}. These values are consistent with yields from bedrock wells and although these are lower than yields from wells completed in the intermediate and alluvial aquifers, these values will be generally adequate for the anticipated THOA Subdivision domestic purposes.

4. **Inventory:**

The HEI inventory assessment includes the two inventory zones for the six (6) TNC wells; a 100-foot fixed radius well control zone and 1-mile inventory zone.

The HEI inventory of the 100 ft. well control zone (WCZ) includes the Preliminary Assessment of Aground Water Sources Under the Direct Influence of Surface Water using the MDEQ PWS-5 Preliminary Assessment Worksheet. Copies of the PWS-5 report for each well is provided in Appendix E. The second method of inventory included a map of the individual well system associated to the PWS-5 report showing the well location, the 100 ft. WCZ and any sealed components within the WCZ that will require a deviation from MDEQ rules. The individual WCZ maps are provided in Appendix E. If a deviation is required, the deviation is also included in the PWS-5 report. If there are sealed components in the WCZ, HEI will use increased well construction standards that will specify oversized overshot steel casing to a minimum of 25 ft. bgs with steel liner that has a neat-cement grouted into the collars and exterior bentonite grout seal as a man-made barrier. The required plans and specifications for the individual wells that require man-made barriers are included in the PWS-5 reports.

The method used by HEI to inventory the 1-mile radius was to query the Montana Digital Atlas (MDA). A map of the 1-mile radial distance from each well is provided in Appendix B. As can be seen from the Appendix E map, most of the inventory area is Flathead Lake. Therefore, the search was confined to the 1-mile radial distance on land associated to Finley Point. There are no developments on Bull Island. HEI queried the MDA for septic density, wastewater treatment facilities, parcel information and type, agricultural uses, animal feed operations, EPA regulated facilities, Class V injection wells, stormwater permit sites, for highways, roads, pipelines and public railroads and for general land use. The MDA map report results are provided in Appendix B. Table 5 below provides the summary of the inventory query.

Table 5. MDA Query Summary

Inventory Category	Results
Parcels Queried	Two-hundred and thirty-seven parcels (237) parcels were queried. Seventy-three (73) parcels are rural vacant, rural Tribal Exempt or rural Lake County exempt. The remaining one-hundred and sixty-four (164) parcels are rural improved properties and assumed to have a septic system on each parcel. The area queried land area is 570 acres, 0.89 sq.mi. so the septic density is approximately 3.48 septic systems per acre, 0.0054 septic systems per mi. ²
Septic Density	
Animal Feeding Operations	None Located
EPA Regulated Facilities	None Located
Class V Injection Wells	None Located
Wastewater Treatment Systems	Timbrshor WWTS Facility
MPDES Wastewater Discharges	None located
SWPPP Permits/Stormwater	None Located
Highways and County Road	No highways within the area queried. Montana Highway 35 is the nearest public highway but is well outside the inventory area. County roads within the inventory area are N. Finley Point Road, Finley Point Lane, Borchers Lane, West Side Drive, Mission View Road, Hilltop Drive, Peachtree Road, Smuggles Point Road, Camden Lane, Lanier Lane, Lindburg Lane, and Georgia Road, all residential access county roads.
Railroads or Pipelines	None Located
Land Use	Improved rural property, Vacant rural land, rural farmstead (eleven (11) cherry orchards, rural improved and rural vacant CSKT Tribal Land, rural condominiums associated to the THOA Subdivision, Mellett Point Park, Lake County park land.)
Cherry Orchards	Eleven (11)
Groundwater Wells	Fifty-six (56) well logs listed with GWIC. Assumes of the 164 rural developed properties, approximately 108 properties use water from Flathead Lake.

4.1 Susceptibility Assessment:

The wastewater treatment facility is the Timbrshor Public Wastewater Treatment system constructed by Billmayer & Hafferman Inc. (predecessor to HEI). Based on the PWS-6 Hazard Potential table, the septic density is low and is approximately 1.8 unit service connections per acre and will stay low at 2.8 unit service connections per acre at full build out. There are five (5) separate drainfield systems that were recently constructed or reconstructed and three (3) use Level II treatment.

Septic density in the inventory area hazard is moderate at 185 units per sq. mi. If all vacant rural properties are developed it will still be moderate at 260 septic systems per sq.mi. Given the lack of ability to subdivide rural vacant properties in Lake County, it is unlikely that this area will ever become high density. Nitrates and pathogens from septic systems are currently the only major contaminants of concern.

There are no landfills, no major Montana State clean up or EPA Superfund sites, or hazardous spill sites near the inventory region. There are no underground storage tank releases reported for the area. There are eleven (11) cherry orchards of unknown commercial or private ownership but all are either downgradient or located primarily on the east side of the Subdivision.

Cropped agricultural land (cherry orchards) is approximately 25 acres of the inventory area or approximately 4.3% of the land mass.

Because the subdivision water supply wells will be completed in a confined aquifer, the susceptibility to contamination for all hazards is considered low in accordance with the SWPP. Many of the layers overlying the production zone are dense bedrock that create a barrier to contamination. The major contaminants of concern are nitrates and pathogens associated with septic systems; however septic system density is moderate.

Susceptibility is also decreased by the proper completion of the subdivision water supply wells. As discussed in section 4. Inventory, above, if there are sealed components in the WCZ HEI will use increased well construction standards a specify oversized overshot steel casing to a minimum of 25 ft. bgs with steel liner that has a neat-cement grouted into the collars and exterior bentonite grout seal as a man-made barrier.

5. Limitations:

The susceptibility analysis is not based on a rigorous analysis of contaminant transport but relies on indicators of hazards and simple assessments of the effectiveness of barriers. Query of the Montana Digital Atlas (MDA) and the federal Natural Resources Conservation Service (NRCS) data bases provides data as accurate as any other land use or State and County record databases. The MDA and NRCS data bases use data that is not precise but given the rural nature of the inventory region it is unlikely that the MDA or NRCS left out important sources of contamination in the inventory.

The primary contaminant is wastewater effluent or raw sewage in the event of a pump truck spill. It is likely that wells developed in fractured bedrock will have wastewater contaminants that flow at the same speed as water. HEI has developed two barriers to contaminants, wells are developed as much as is possible upgradient from wastewater treatment systems and, as discussed in the PWS-5 reports, HEI will use increased well construction standards as a man-made barrier to potential contaminants. Given the nature of Flathead Lake front and lake view properties that are predominant on Finley Point, it is unlikely that septic density will ever exceed moderate density. Should land development patterns change on Finley Point or new information become available or this report will be periodically updated.

References:

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- ⁱ https://svc.mt.gov/doa/lgs#/a_pub State of Montana Local Government Services web site, Public Information, List of Entity Numbers
- ⁱⁱ Water System Subdivision Approval and Water Rights Analysis at the Borchers of Finley Point Development for the Timbrshor Homeowners Associations, Billmayer & Hafferman Inc., Kurtis M. Hafferman P.E. April 20, 2015
- ⁱⁱⁱ Memorandum to Jim Cole, Timbrshor Association President cc: Kurt Hafferman, PE, Hafferman Engineering Diana Luke, Lake County Sanitarian, from Emily Gillespie, PE, January 9, 2018, Subject: Timbrshor Association (Borchers at Finley Point) Water System Compliance
- ^{iv} Circular DEQ 3, Standards for Small Water Systems August 8, 2014 Edition, Chapter 1 Submission of Plans, 1.1 Design Report, 1.1.6. Sources of water supply
- ^v https://factfinder.census.gov/faces/nav/jsf/pages/community_facts.xhtml?src=bkmk US Census Bureau, 2018 Population Estimate
- ^{vi} Ibid; 2102 Survey of Business Owners
- ^{vii} <http://www.polsonchamber.com/> Polson Chamber of Commerce, PO Box 667, 402 1st St E, Suite 102, Polson, Montana 59860
- ^{viii} Montana Groundwater Assessment Atlas 2 (MGAA 2), Groundwater Resources of the Flathead Lake Area: Flathead, Lake, Sanders and Missoula Counties, Part A descriptive Overview and Water Quality Data, John LaFave, Larry Smith, and Thomas W. Patton, 2004, Montana Bureau of Mines and Geology, Pg. 48 Mission
- ^{ix} Ibid, MGAA 2 pg. 9
- ^x Ibid MGAA 2, Figure 8 pg. 10
- ^{xi} Ibid, MGAA 2, Pg. 62, Flathead Lake Perimeter
- ^{xii}
- ^{xiii} Ibid, MGAA 2 pg. 55
- ^{xiii} Bear, J., 1979. Hydraulics of Groundwater, McGraw-Hill, New York,

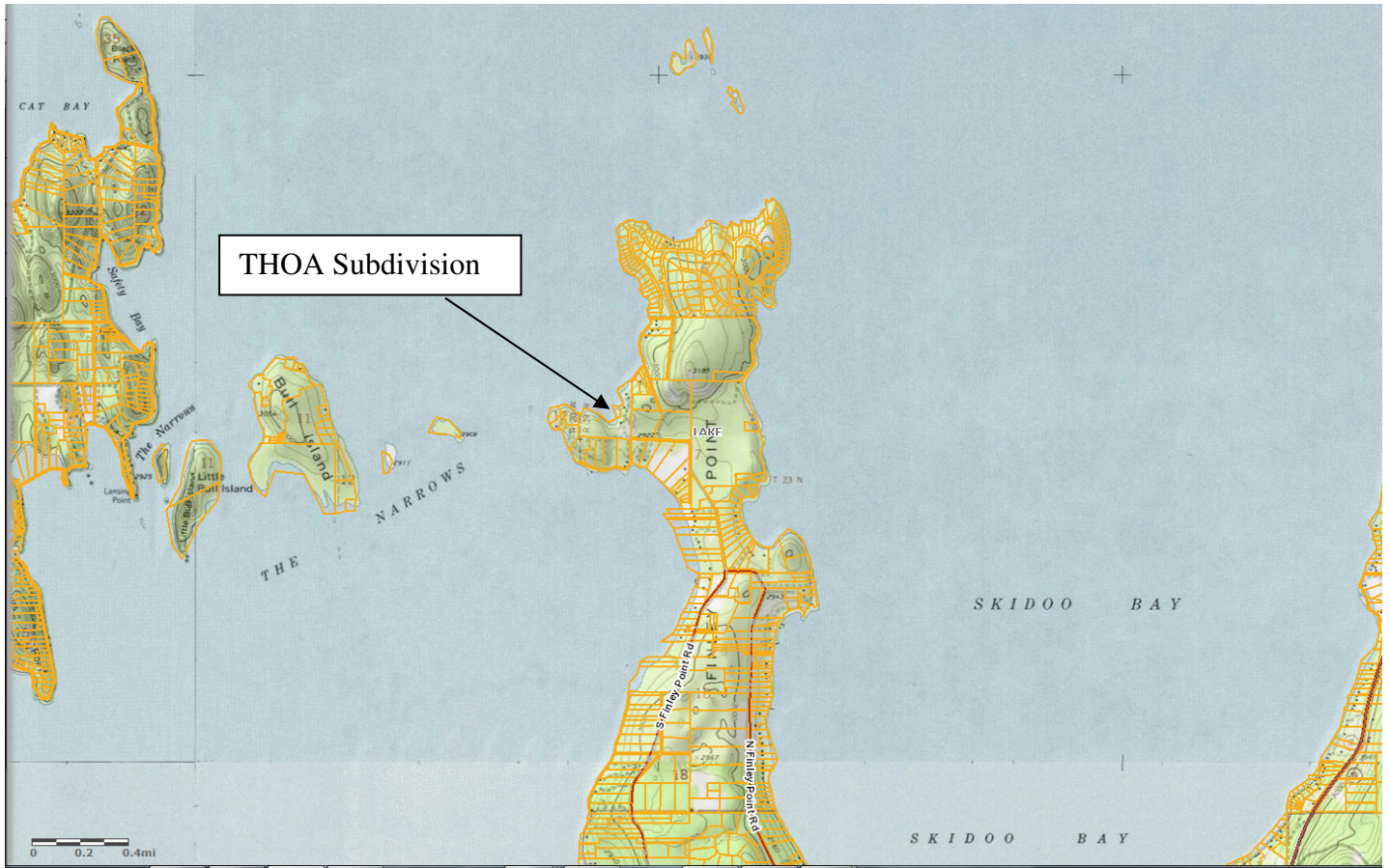
APPENDIX A

MAP OF SUBDIVISION LOCATION

MDEQ MEMORANDUM JANUARY 9, 2018

THOA BOARD SUBDIVISION WATER PLAN

MAP OF PROPOSED WELL LOCATIONS



Timbrshor HOA PWS – 6 Report

Project Location Map

TO: Jim Cole, Timbrshor Association President (electronic only)

CC: Kurt Hafferman, PE, Hafferman Engineering (electronic only)

Diana Luke, Lake County Sanitarian (electronic only)

FROM: Emily Gillespie, PE

DATE: January 9, 2018

SUBJECT: **Timbrshor Association (Borchers at Finley Point)
Water System Compliance**

As we previously discussed, I extend my gratitude to the Timbrshor Association for your completion of the wastewater improvements on site.

Additionally, Tim Cole recently inquired about compliance for the water systems onsite. The intent of this memo is to outline the units which are currently in compliance with the original approval and those that are not. For the ones out of compliance, I have listed a few options for coming into compliance.

Units currently in compliance (17): Units 203, 204, 205, 210, 211, 306, 307, 308, 309, 311, 312, 314, 315, 316, 401, 402 and the lodge were outlined as having individual water systems that predated the 24-77-K902 Borchers at Finley Point Water Certificate of Subdivision Approval (dated July 22, 1977). Hence, these lots may remain served by individual water systems.

Units currently out of compliance (38 original, 30 current units): Units 201, 202*, 206, 209, 216, 217**, 219, 301, 302, 305, 317***, 318, 319, 320, 403/404, 406, 408, 409, 410, 411, 412, 413, 414, 416, 417, 418/419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430 were approved to be connected to a Community water supply system. All of these units, whether built or non-built, must seek an approvable solution to their water supply. Individual surface water intakes are not allowed by current DEQ Subdivision laws.

***Shaded units** are no longer approved for construction per the "Restriction on Development Lots" agreed to by the Lake County Commissioners on April 16, 2015.

****Unit 217** currently has sanitary restrictions placed on it.

*****Unit 317** was inadvertently left off 1977 Water COSA, but shows up in the 1977 Wastewater COSA

Options for compliance:

- (1) The 1977 COSA pertaining to water could remain in place. However, since the approved plans for the Community Public Water Supply (PWS) system have expired, new water system plans (prepared by a Professional Engineer) would need to be submitted to DEQ for review and approval as a Community PWS system. This Community PWS system could be served by either groundwater wells or surface water, with appropriate treatment. By not changing the 1977 COSA, the PWS system plans do not require water rights verification. Therefore, compliance with water rights could be delayed until the Salish Kootenai Compact has been resolved.
 - a. It is also possible that a Community PWS system designed to supply domestic water only could be served by two (or more) groundwater wells that pump less than 35 gpm and use less than 10 acre-feet volume per year. In that case, simple Notice of Completion water rights certificates could be submitted to DRNC Water Resources Division.
- (2) The 1977 COSA could be re-written to allow for individual, shared or multi-user water systems that could be served by groundwater wells that pump less than 35 gpm and 10 acre-feet volume per year. In this scenario, simple Notice of Completion water rights certificates could be submitted to DRNC Water Resources Division for each well.
- (3) The 1977 COSA could be re-written to allow for individual or shared cisterns to be filled by a water hauler (or potentially hauled by individual unit owners). No water rights are involved with this scenario.

If you have any questions, please contact me at 406-755-8979 or egillespie@mt.gov.

DRAFT WATER PLAN

As a follow up to the March 24, 2018 special member meeting, we are bringing to the members two plans to address the community's water issues: (1) a Phased Plan supported by a majority of the Board, and (2) an Immediate Plan proposed by Sue Roy. While the two plans have significant differences, particularly financial, they both rely upon the engineering plan that the Board asked HEI to develop (See, attached retainer letter dated May 24, 2018).

All members should have received by now a preliminary well plan from HEI. Please review that plan to see what well your unit has been assigned to, and the approximate costs that you may face if you decide to connect to the well system in the near term. If you have any issues with your well assignment or approximate costs (See, Planning Principles in retainer letter), please advise the Board by Monday, July 10, 2018, so that the Board can confer with HEI to see what, if any, changes may be warranted and/or possible. Also, please understand that HEI's cost estimates may vary significantly from your actual costs. So, please use the cost estimates as rough guides and not as firm price quotes.

Phased Plan

The significant elements of the Phased Plan are as follows:

- (1) Since all units at Timbrshor have a 2% interest in common property, all 50 units would be provided with an opportunity to connect to one of the community's nine (9) well locations.
- (2) Community well assignments would be permanent rights that would run with the land.
- (3) The plan would allow the 13 existing non-compliant units to connect to a well when ordered to do so by the DEQ, and it would allow all other units to connect to a well when, and if, they choose to do so.
- (4) Each unit would be responsible for all costs in connecting to its assigned well, and would share well development costs, on a pro rata basis, with the other units in its well group.
- (5) In order to develop or connect to a well, members would need to subscribe to the Association's Water Well Agreement. Attached, for your review and comment, is a draft of that agreement. If you have any questions or comments, please let us know. The final form of this document will be prepared by the Association's attorney, Rob Erickson.

- (6) This plan would not abridge the property rights of any owner. It would also be able to accommodate whatever members decide over both a near term and long term basis.
- (7) Upon approval by the State and County, the plan would result in the lifting of the building moratorium.
- (8) The only immediate cost to members would be an assessment of (\$750) to each of the 47 developable sites to pay anticipated engineering and legal fees to develop and file a plan that is approved by both the State and County.
- (9) The most significant drawback to this plan is that it may take years or never for some undeveloped lots to recover well development costs. That, however, may be a small price to pay to finally free up these lots for development

IMMEDIATE PLAN

The Immediate Plan proposed by Sue Roy is appended as Addendum A.

QUESTIONS AND ANSWERS

Question: Why are only 47 units paying the assessment?

Answer: Three of our 50 units are double lots (216/217, 403/404 and 418/419). Because only one house can be built on those lots, they are treated as a single lot for the purposes of dues and assessments.

Question: Does the Association have an obligation to implement a new water plan and amend the COSA?

Answer: Yes. Since the State and County belatedly linked fixing the water plan to lifting the moratorium, the Association does have a duty to amend the COSA as soon as reasonably possible so that the approximately \$802,000 that has been spent on the new community septic system finally attains the objective of lifting the building moratorium.

Question: Will all 50 units participate?

Answer: All 50 units will be included in the new COSA, and 49 units will be given an assignment on a community well. 317 already has a well, and has advised that it does not need another ground water connection.

Question: Can the Association require owners to build wells and develop ground water systems?

Answer: No. Pursuant to Section 11 (f) of the Amended Declaration the Association would only have authority if a regulatory body required immediate compliance (which was the case with the septic project). In the present situation, no units are under an immediate compliance order: the State has advised that 13 units will need to comply in the next 3-5 years or sooner; undeveloped units don't need to comply until they decide to build a house which may be never; and 17 units have been exempted.

Question: Are the "Phased" and "Immediate" plans both voluntary?

Answer: Yes. While the Association does have an obligation to put in place a new water plan to lift the building moratorium, it is up to the members to comply with State water requirements either (1) when ordered to do so by the State, or (2) when they decide to develop their lot, or (3) when they choose to do so.

Question: What happens if a member ignores a State compliance order and refuses to move to the well system?

Answer. The burden and cost of defending against any DEQ enforcement order would be the sole responsibility of the member.

Question: Under the Phased Plan how would well assignments be made permanent?

Answer: Upon approval of the plan and acceptance by the State and County, the Water Well Agreement would be filed with Lake County and it would confer upon all participating units a perpetual right to use their assigned community well to access ground water, and such rights would convey to the unit's successors and assigns. Please note that the Water Well Agreement allows members to connect to their assigned well after it has been built upon the payment of a hook-up fee that would be equivalent to that unit's pro rata share of construction and maintenance costs.

Question: Will all final decisions on this project be made by the Board?

Answer: Yes. While the Board will consider the views and preferences of the members, per long-standing legal advice, the authority to make decisions for the Association rests exclusively with the Board.

Question: Are there circumstances in which further amendments to the water plan and COSA may be necessary?

Answer: Yes. If, for example, the Association adopted the Immediate Plan and members opted out due to cost concerns, in order for those members to utilize a

well system at some time in the future, then there would need to be a repeat of this very expensive COSA amendment process.

Question: What sorts of issues should members be concerned about in reviewing HEI's design and well assignments?

Answer: Issues that you might want to consider include: Is your assigned well in "reasonable proximity" to your unit? If you are one of the 13 existing non-compliant units, are you assigned to a well that has a sufficient number of other members in the same situation that will enable a reasonable sharing of well costs? If you have an undeveloped lot and plan to connect to the well system relatively soon, is there a nearby well with sufficient number of members who also plan to connect relatively soon that would enable a more reasonable sharing of well costs? Might any of the well locations or proposed water lines interfere with your property rights?

Question: In the septic plan units on drain fields C and D paid substantially less than the other owners. Is anything similar being contemplated with the water plan?

Answer. No. That was a one-time event that was attributable to the fact that members on those drain fields received credits for "value in the ground" for septic hardware. No similar situation exists here. Each member is expected to pay its pro rata share of actual well construction expenses, and all expenses to connect their water lines to their assigned well.

WATER WELL AGREEMENT
(DRAFT)

This Water Well Agreement (hereinafter "Agreement") is entered into by and between the Timbrshor Homeowners Association (hereinafter "Timbrshor" or "Association"), and the various members of Timbrshor ("Members") who elect to become part of its new system of water wells.

WITNESSETH

WHEREAS, on (insert date) Timbrshor approved a new water well plan ("Well Plan") whereby all Members were afforded an opportunity to connect their unit ("Unit") to one of the (nine) community wells located on common property;

WHEREAS, the parties wish to define the terms under which Members may build and operate a ground water well system on their Assigned Well (as defined below) to serve their respective Units; and

NOW, THEREFORE, in consideration of the mutual promises herein set forth and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and subject to the conditions and upon the terms hereof, the parties hereto hereby agree as follows:

1. **WELLS-** Pursuant to the Well Plan, 49 Units (three of which are double lots) have been assigned to one of the (nine) community wells. Each of the wells is identified on Attachment A appended hereto, and the various well assignments are set forth on Attachment B appended hereto (all Units assigned to a particular well are referred to as a "Well Group" or "Well System", and the well assigned to that group is referred to as the "Assigned Well").
2. **EXCLUSIVE GROUND WATER SOURCE-** Well assignments specified in Paragraph 1 are the exclusive ground water connections for each of the Units. Pursuant to the terms and conditions herein, each Unit shall have a right to build and operate its Assigned Well to provide ground water to its Unit.
3. **PURPOSE-** It is the responsibility of each Well Group to construct, at their cost and expense, a multi-family water system, including a groundwater well, well casing, pump and controls at the locations for each well specified on Attachment A. The cost of constructing, maintaining and operating such multi-family well water system shall be paid for by each Well Group on a pro rata basis; provided, however, if any Member opts not to join its Well Group until after the applicable well system has been constructed (which could be years or never), then such Member shall be responsible for paying a hook-up

fee equivalent to actual pro rata construction and maintenance costs from inception of the system through the time of joining, plus interest at a rate of (4%) per annum. Such payments shall be distributed, on a pro rata basis, to the Voting Member(s) (as defined below) of the Well Group who paid to construct the applicable "Well System". It is specifically recognized that one Unit may construct the applicable "Well System" in anticipation that other Units may join at a later date or never.

4. **WATER LINES-** Each Unit shall pay all costs, including water pipes, tanks and meters, to connect its Unit to its Assigned Well.
5. **GOVERNANCE-** Each Unit that has paid its pro rata share of costs shall be a full voting member of its Well Group ("Voting Member") and entitled to connect to its Assigned Well. At each annual meeting of the Association, Voting Members of each Well Group shall elect a manager whose responsibilities shall include but not be limited to: collecting funds, paying all costs, overseeing maintenance of its Assigned Well, recommending assessments; keeping a record of all actual construction and maintenance costs; reporting such costs to the Association; and otherwise ensuring that the Well Group is in compliance with all legal, regulatory and Association requirements; provided, however, that it is understood and agreed that any such costs and expenses shall not apply to a non-Voting Member.
6. **HOA OVERSIGHT-** All construction plans for Well Groups and unit water line connections are subject to the prior review and approval of the TimberShore Board (hereinafter "THOA Board") or its designee. The purpose of such review is to ensure that the applicable Assigned Well and associated water lines are placed at the correct locations, and that they will not interfere with the property rights of any other member.
7. **CONTINUING RIGHTS and RECORDATION-** This Agreement shall run with the land and be binding upon and inure to the benefits of the heirs, successors and assigns of all the parties hereto, including non-Voting Members. Once the Well Plan and associated COSA are approved by the applicable regulatory bodies, this Agreement shall be filed with Lake County.
8. **COMPLIANCE-** Each Well Group shall have a continuing obligation to comply with all applicable governmental regulations and any associated rules and regulations adopted by the Association.
9. **EASEMENT-** Each Well Group shall have an easement across the property of its Voting Members to enable reasonable access for construction, maintenance, operation and repair of the applicable Well System.
10. **BREACH-** In the event of a breach of this Agreement or significant failure of any Well System, in addition to all other legal remedies, the Association shall

have the right to remedy and repair (collectively "Repair") any situation that poses an imminent risk to a member, member property or common property, and to require all Voting Members of the applicable Well Group to reimburse the Association for the cost of any such Repair.

11. SEVERABILITY- If any provision of this Agreement is found to be invalid or unenforceable, the remainder of this Agreement shall remain in full force and effect.
12. INDEMNIFICATION- The Voting Members of each Well Group shall indemnify and reimburse the Association for any costs and expenses that the Association may incur due to the willful misconduct or gross negligence pertaining to any matter associated with such Well Group, including, but not limited to, the construction of the Well System and water lines, the operation and maintenance of such system and compliance with all legal, regulatory and Association requirements.
13. GOVERNING LAW- This Agreement shall be governed by and construed in accordance with the laws of the State of Montana.
14. COUNTERPARTS- This Agreement may be executed over time in one or more counterparts, each of which will be deemed an original instrument, but all of which together shall constitute one and the same agreement.
15. ENTIRE AGREEMENT- This Agreement and associated documents specified herein constitutes the entire agreement between the parties and cannot be amended in any respect except by a like written instrument that is duly signed and accepted by the parties.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the dates set forth below.

TIMBRSHOR HOMEOWNERS ASSOCIATION

DATES

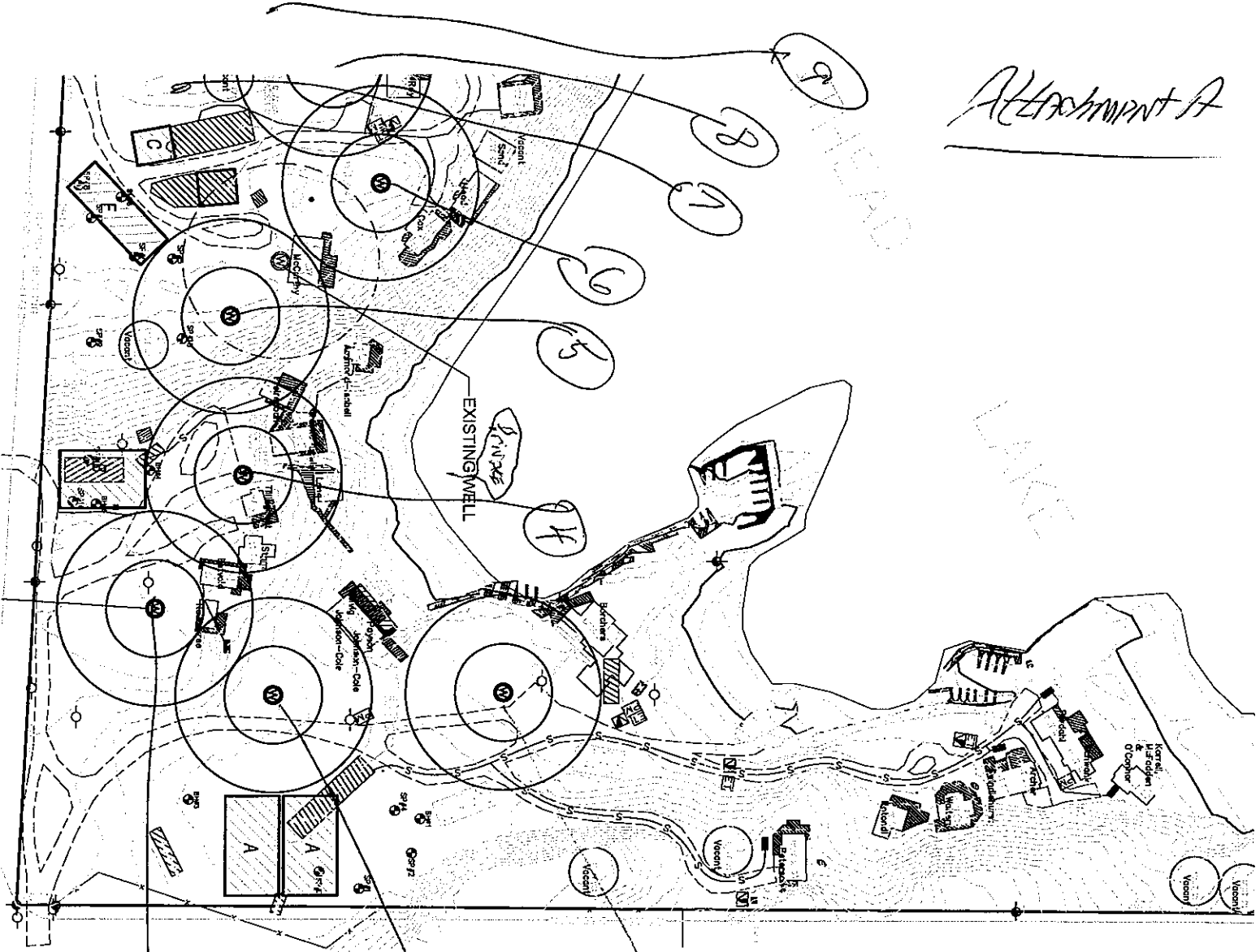
BY: _____

Its Chairman

TIMBRSHOR UNIT OWNERS

(Insert signature lines for 46 units)

Attachment A



NOTES:

1. POTENTIAL WELL LOCATIONS ARE BASED ON EXISTING SURVEY INFORMATION PROVIDED BY TERRITORIAL.
2. ACTUAL FIELD LOCATION OF SEWER LINES AND/OR ADDITIONAL SEPTIC TANKS NOT SHOWN MAY AFFECT THE SUITABILITY OF THE LOCATIONS SHOWN.
3. WELL LOCATIONS ARE BASED ON A 100 FT. SETBACK FROM DRAINFIELDS AND 50 FT. SETBACK FROM SEALED COMPONENTS.

- NINE COMMUNITY WELL LOCATIONS ARE NUMBERED AND ONE PRIVATE WELL IS IDENTIFIED. ALL ARE INCLUDED IN PRSVD COLSA.

NOTE -
NPOD BETTER
WELL MAP

LEGEND	
	1
	2
	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	Private Well
	Drainage
	Existing Well
	Vacuum
	Building
	Road
	Utility Line
	Property Boundary
	Water Feature
	Other Structure

WELL GROUPS
ATTACHMENT B
DRAFT

WELL GROUP 1
UNITS 1-6

WELL GROUP 2
UNITS 7-11

WELL GROUP 3
UNITS 12-17

WELL GROUP 4
UNITS 18-22

WELL GROUP 5
Units 23-29

WELL GROUP 6
Units 30-35

WELL GROUP 7
Units 36-40

Well Group 8
Units 41-44

Well Group 9
Units 45-46

May 24, 2018

James Cole, Chairman
Timbrshor Homeowners Association
30353 Borchers Lane, Unit 308/309
Polson, MT 59860

RE: Timbrshor Groundwater Well System design, COSA Rewrite

Dear Jim,

Per the THOA Board request, Hafferman Engineering Inc (HEI) is providing the Scope of Work, Estimated Fee and Fee Schedule for obtaining State of Montana Department of Environmental Quality (MDEQ) Condition of Subdivision Approval (COSA) compliance by designing and obtaining approval of an appropriate public water supply (PWS) groundwater well system for the forty-seven (47) units associated to the Timbrshor Subdivision. The rewritten COSA will need to address the water supply for thirty (30) existing and seventeen (17) future units.

HEI will provide a ground water supply design that is in accord with the attached Planning Principles, hereby incorporated by reference. The design will apply to all 47 developable sites and shall consist of a minimum of six (6) and a maximum of nine (9) community wells. It is recognized that unit 317 has an existing well to be included in the plan and addressed in the re-write of the Conditions of Subdivision Approval (COSA).

HEI will work with the THOA Board to locate wells to provide a central well location to accommodate between two (2) and nine (9) units per well so that they are considered as a multi-user water supply well. The design for each well will include public water supply (PWS) well construction standards, a central above ground pump control building or a below ground pump control vault, a series of pressure regulating tanks and pump controls and then a central pipeline manifold to a common location near a common set of units. Individual units will be required, or allowed, to connect to the PWS manifold at a specific location and with specified connection methods. The completed system is intended to provide a safe, reliable domestic drinking water supply for a total of forty-seven (47) units that is designed and constructed to meet State of Montana, Department of Environmental Quality Circular DEQ 3 Standards for Small Water Systems in Montana. The water supply system is planned or intended to be used for domestic drinking water within an assigned unit and is specifically not intended to be used for irrigation.

HEI will submit a rewrite of the Timbrshor COSA to provide the details of each unit's water supply connection location, the description of the well(s) associated to each unit and reference the approved deviations and final DEQ approved plans. HEI will obtain the final COSA, file the approved COSA at the Lake County Clerk and Records office and petition and receive the Lake County Commissioners removal of the Borchers of Finley Point Subdivision building moratorium.

HEI will provide the THOA Board with the following information and explanation as near to the beginning of the project as is possible:

1. The number of wells that need a waiver from the DEQ;
2. whether it would be prudent to limit the demand on each well to some number less than nine (9) units;

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3. Whether it would be prudent to hold one developable well in reserve for unknown future needs; and,
4. The most realistic time frame that HEI believes the DEQ will allow the 13 existing non-compliant units to remain non-compliant. With respect to the water rights for 39 units that were held for the benefit of THOA, HEI will complete the process of putting those rights into THOA's name within the next 60 days.

The THOA Board also requests that HEI consider and incorporate the following Planning Principles in this proposal:

Principle #1: Overall design for the water plan is to take into account that while not all units are impacted equally by the current water situation as outlined by the State, the community needs a comprehensive plan that ensures all 47 units have the option for connecting to a state-approved groundwater water source which is to be located within a reasonable proximity to their unit.

Principle #2: Consideration to be made in the design for the thirteen (13) existing developed units that have been classified by the State as COSA non-compliant and, due to the State mandated time constraints, will be required to transfer to a State-approved groundwater source within a three to five-year time frame. Consideration being sought is to have alternatives by which such units might be co-located or positioned to construct and connect to the new groundwater system sooner than other units and a phased construction proposal is to be developed which takes into consideration the State-mandated time constraints faced by the thirteen (13) non-COSA compliant units.

Principle #3: In those cases where unit owners have private, independent State based water rights, the water plan needs to document and recognize such to ensure nothing is added to nor taken away from those rights.

Principle #4: Given the community will have up to nine (9) groundwater well locations, THOA is seeking that maximum advantage be made of the various locations available in the design and to ensure assignments are made in such a way as to balance demand, location, and sustainability throughout the community.

Principle #5: It is anticipated that the cost of developing and maintaining each well in accordance with the State requirements (to be noted in the water plan) will be the responsibility of each groundwater well-water group although the community could adopt a different approach. Additionally, the plan needs to address that each unit owner would be responsible for the cost of installing and connecting an approved water line from his/her unit to the assigned water system connection location.

Principle #6: The water plan to provide an acceptable solution for the State and community which allows for the use of surface water for the purposes of irrigation.

Principle #7: The plan and subsequent COSA shall be designed in such a fashion as to require minimal reporting to the State and provide a simplified, low cost operation and maintenance plan for the present and in the future as each member of the community connects units to the approved groundwater well sites.

Principle #8: The plan will include the filing of, or instructions on the filing of, State based water rights for each of the groundwater wells.

The HEI outline of the proposed Scope of Work for this project includes:

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Scope of Work THOA Well Locations and PWS Site Analysis

- i. Define the number and final location of all the wells that will be developed to serve the THOA.
 - a. Well locations will consider both State regulation and convenience of location for each well.
 - b. It is assumed that there will need to be a minimum of six (6) and a maximum of nine (9) community well locations.
 - c. Specified well locations with assigned units and the approximate costs for each unit to be reviewed and approved by the THOA Board
 - d. Specified well locations with assigned units and the approximate costs for each unit shall be completed and ready for THOA's Annual Meeting on June 30, 2018
 - e. For the June 30, 2018, THOA Annual Meeting, HEI will provide an explanation for any of the nine (9) community well sites that were not included in the plan
 - f. THOA members will be given 30 days to consider the well assignments and approximate costs; within 45 days, the THOA Board shall advise HEI of any changes to the assignments, and the THOA Board may extend such date if more time is needed to fully consider member issues
 - g. Following the THOA Board's approval of the plan and/or any revisions thereto, HEI will proceed with the remaining work described herein
- II. Complete a PWS 5 report for each well.
 - a. The PWS 5 report will address the potential for each well to have a surface water connection. Data supplied with that report includes static water levels of neighboring wells, well logs and the suspected water bearing layer.
 - b. HEI will complete the PWS 5 numerical scoring to determine if a well is immediately or directly connected to surface water. HEI does not anticipate having wells that are connected to surface water and more likely than not will pass the PWS 5 analysis.
- III. Complete a PWS 6 report for each well.
 - a. The PWS 6 report will include an analysis of the susceptibility of the well to nearby contamination sources. HEI will analyze all potential contamination sources in a radius up to 1-mile around each well and describe any potential contamination sources.
 - i. Potential contamination sources include other drainfield and septic systems, potential underground storage tanks, above ground storage tanks, and items as small as known trash containers or collection sites.
 - ii. It is more likely than not that your own septic tanks and discharge lines will place the greatest potential threat to the wells that needs to be addressed.
- IV. Obtain PWS Deviations for Each Well
 - a. Separation distances from PWS water supply wells and waste water system components are required to be a minimum of 100 ft. Septic tanks and discharge lines less than 100 ft. will require a deviation from DEQ regulation before the PWS 6 can be submitted.
 - i. Susceptibility deviations can be addressed through well construction standards that use double casings at the surface with the interior well casing sealed in either concrete or concrete and bentonite grout mix around the wells to a depth of 20 feet. In almost all cases, MDEQ deviation committee will impose extra sanitary restrictions on a PWS well but typically will approve the PWS 6.
 - ii. Deviations will need to be obtained early in the process to be sure any conditions of approval are included in the final design.
- V. Upon approval of the deviations, HEI will submit the PWS 5 and PWS 6 for DEQ approval
- VI. Upon approval of the PWS 6, HEI will start final design for the pipeline locations and well standards
 - a. The final plans will include but are not limited to,

- j. The pipeline from the well(s) to the pump control house at each selected location,
 - ii. The location of future waterlines and details for all the pump controls, pressure tanks and plumbing.
 - iii. Develop phasing plans for DEQ approval
 - b. Finalized plans are submitted to MDEQ for approval and will result in permission to drill the well(s) and construct the water system.
- VII. Develop a final construction cost estimate for the approved wells and pipeline system
 - a. Include a cost for each phasing plan to allow incremental development of new units and transition of existing non-COSA compliant units from surface water to the groundwater well system
 - b. HEI will provide THOA with sample well agreements that would allow for the development of a well by a single user and the recovery of actual costs when other assigned users join at a later date, it being understood that THOA shall be responsible for customizing such documents to meet its requirements
 - c. HEI will explain in detail any necessary actions necessary to secure water rights for each well when developed and HEI shall provide all necessary forms related thereto.

Scope of Work COSA Rewrite

- I. Once the water system plans have been approved by the DEQ, HEI will complete a rewrite of the COSA to address the approved water supply(s) and the unit locations associated to each well(s).
 - a. Rewrite COSA to describe the change to a groundwater well system,
 - b. Describe how each well is or will be constructed, specify the flow rate and number of units connected to a well and the location of each unit connection, and any other health regulations
 - c. The COSA shall also reflect that eight (8) units have private independent rights to extract lake or ground water
 - d. Provide well sharing agreements to the State of Montana with COSA
- II. Submit COSA for review and approval
 - a. Record final COSA at the Lake County Clerk and Recorder.
- III. Petition Lake County to remove the building moratorium.

The DEQ Public Water Supply Division has informed their DEQ enforcement division that the THOA COSA is non-compliant. It's difficult to decide how the enforcement division will react, it is possible they will issue an order to require compliance, but it is unknown how the order will be enforced. Time is of the essence in preventing DEQ compliance enforcement. HEI discussion and coordination with the DEQ enforcement division is not anticipated in the Scope of Work. It is assumed that the THOA Board or their legal representative will reply to and coordinate with any possible DEQ enforcement. HEI can provide consultation or advice on compliance as requested. HEI will assure that they communicate with DEQ at all phases of the project with every intent to prevent, delay or avoid DEQ enforcement.

HEI assumes that all existing units will agree to become COSA compliant within the DEQ required time line. The scope of work does not anticipate assisting the THOA Board with DEQ compliance post COSA rewrite.

Fee Estimate THOA Well Locations and PWS Site Analysis

Our fee to perform the Scope of Work for the Well Locations and PWS Site Analysis is not to exceed \$19,950.

This proposal assumes the THOA Board will assign at least one-person from the THOA to provide data, maps or information as requested, assist HEI by reviewing and gaining Board approval of the well locations, other site logistics, DEQ application materials and any of the other areas stated in the Scope of Work above. HEI will deliver to the owner a completed PWS 5 and PWS 6 report for Board approval prior to DEQ submittal which includes but is not limited to review and approval of the application, description of the existing water diversion works, and show that the planned pipeline and distribution system is sufficient to meet the domestic water use and irrigation requirements of the project suitable to meet the DEQ criteria. The foregoing plans will be sufficiently clear to enable THOA to ensure that wells and water lines are constructed at specific locations.

The project will be completed based only on the time required with time billed on an hourly basis. THOA will be invoiced at our standard rates shown on the attached Schedule A for a Principal Engineer or Senior Engineering Technician. HEI will not exceed the quoted fee without prior written approval from THOA.

Fee Estimate THOA COSA Rewrite and Well and Cost Sharing Agreements

Our fee to perform the Scope of Work for the THOA COSA Rewrite is not to exceed \$10,250. The project will be completed based only on the time required with time billed on an hourly basis.

This proposal assumes the owner will assign at least one-person from the THOA to provide data, maps or information as requested and assist HEI by reviewing the COSA prior to submittal of the final document to review agencies. This proposal also assumes that the THOA will provide one person to assist HEI in meetings with Lake County required to remove the building moratorium.

The project will be completed based only on the time required with time billed on an hourly basis. THOA will be invoiced at our standard rates shown on the attached Schedule A for a Principal Engineer or Senior Engineering Technician. HEI will not exceed the quoted fee without prior written approval from THOA.

Conditions of Agreement and Compensation

You will be invoiced at our standard rates shown on the attached Schedule A for a Principal Engineer, Senior Engineering Technician or clerical staff. HEI will invoice once each 30-day period. Invoices will provide sufficient detail to clarify the professional fees and associated charges.

Any changes in the Scope of Work resulting from changes in the owner's request or changes in Governmental Review Standards will be promptly called to your attention. Should the Scope of Work require modification, fees will be re-negotiated prior to initiating any changes. In addition to quoted fees, any review and permit fees advanced by Hafferman Engineering, Inc. (HEI) to any County or State agencies paid by HEI are to be reimbursed. State of Montana DEQ review fees are anticipated to be \$800 for the for the deviations and the PWS 5 and PWS 6 reports. The COSA review fees are anticipated to be near to \$1,500. Parties agree that HEI may invoice for review fee reimbursements on the day, or any time after, they are incurred.

Payment default for more than 30 days from date on the invoice will be a breach of this agreement and may result in termination of services. Payment on invoices due that are past due for 30 days or more shall be assessed 1-1/2% interest per month they are delinquent. In the event suit or collection action is instituted to collect any past due fees invoiced under this agreement, you concur each party will be responsible for any attorney's fees and additional costs the court may determine to be reasonable. In the event the project is suspended, terminated or delayed by the client, HEI shall be entitled to seven (7) days advance written notice and shall be compensated for

all professional services and reimbursable expenses up to the date of termination, suspension or delay. Upon termination and payment to HEI, all plans and work papers shall be promptly forwarded to THOA. The parties agree that the venue and jurisdiction for any action arising under this agreement is Flathead County, Montana and that the laws of the State of Montana govern any proceedings.

HEI carries and shall continue to carry for the term of this agreement professional errors and omissions insurance, professional liability insurance, property damage insurance and automobile insurance. Professional services provided under this agreement shall be performed in a manner consistent with other professionals practicing in the same field and same geographical area as HEI.

All data and plans developed hereunder are for the benefit of THOA and shall not be disclosed to any person or entity excepting only the governmental agencies required to approve the water plan and COSA and to lift the building moratorium and other parties approved in advance by the THOA Board.

HEI will not assign this agreement or subcontract portions of the agreement without written consent.

This scope of work and fee estimate are the entire and only agreement between the parties. No change, alteration or modification of the agreement can be made unless made in writing and signed by both parties. HEI failure to require strict compliance with this agreement shall not be construed as a waiver of any responsibilities or provisions of the agreement and HEI may at any time require strict compliance to the agreement, regardless of previous failure to do so.

The THOA agrees to defend, indemnify and hold HEI harmless against any claim, obligation or liability arising from or related to the performance of services under this agreement resulting from a THOA negligent act, an error or an omission. HEI agrees to defend, indemnify, and hold harmless the THOA from the negligent act, error or omission of HEI.

Project Time Line and Compensation Schedule

Written Time Line Description

Upon execution of the agreement, HEI will begin work immediately. HEI require 30 days to develop the specified well locations and the first draft of the PWS 5 and PWS 6 reports for each well along with the units assigned to each well and the approximate costs as specified in the above scope of work at Section I. Upon THOA Board approval pursuant to the scope of work at Section I, HEI will develop and make a submittal to the State for any deviations from regulations for well separations distance requirements.

State review of the deviations will take up to 30 days from the date of submittal and any requirements or conditions that are made from the deviation committee will be incorporated into the final PWS 5 and PWS 6 reports and the final design. HEI will require 15 days to incorporate the final deviation approvals and conditions in the PWS 6 report and the final PWS 5 and PWS 6 reports will be submitted to the DEQ. A correct and complete determination of the PWS 5 and PWS 6 reports is likely to take 90 days from the date of submittal.

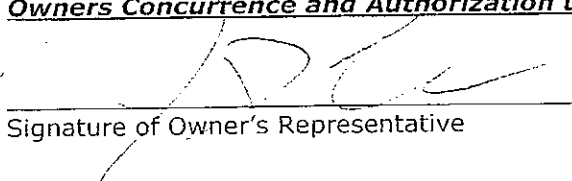
Once the final approval of the PWS 5 and PWS 6 reports is obtained, HEI will begin the final design of the wells, pump control structures and the pipeline and distribution system. HEI anticipates the final design following PWS 5 and PWS 6 approval will take 30 days. HEI anticipates the THOA Board will need two weeks to approve the final plans and, following any modifications, the final plan submittal will be made to DEQ approximately two weeks after THOA Board approval. A correct

Hafferman Engineering Inc.

James Cole, Chairman
Timbrshor Homeowners Association
30353 Borchers Lane, Unit 308/309
Polson, MT 59860

RE: Timbrshor Groundwater Well System design, COSA Rewrite

Owners Concurrence and Authorization to Proceed:



Signature of Owner's Representative

5/24/18
Date

and complete determination of the final THOA Water System Plans is likely to take 90 days from the date of submittal.

Upon receipt of the final plan approval from DEQ HEI will begin the rewrite of the COSA to reflect the new PWS ground water well system. HEI anticipates the COSA rewrite will take two weeks to complete. HEI anticipates DEQ will take 30 days to review and approve the rewritten COSA.

Upon final approval of the rewritten COSA, HEI will work with the THOA Board and/or legal representative to file the COSA at the Lake County Clerk and Recorder. Upon final filing, HEI will meet with the Lake County Commissioners to provide a petition to have the THOA Subdivision Building Moratorium lifted. HEI anticipates that it will require 30 days from final COSA approval to Lake County Commissioners approval of the petition.

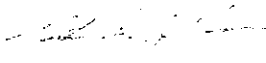
Milestones and HEI invoice at the time step:

Day 1 to Day30- HEI Well Locations, First Draft PWS 5 and PWS 6	Invoice at day 30 \$4500
Day30 to Day 44- THOA Board Review and Approval of Well Location and PWS 5&6 reports	
Day 44 to Day 74- DEQ PWS 5 and PWS 6 deviation submittal	Invoice at day 74 \$4500
Day 74 to Day 104 DEQ Deviation Committee Review Approval	
Day 104 to Day 119 Final PWS 5 and PWS 6 with Deviations Submittal	Invoice at Day 119 \$4500
Day 119 to Day 209 DEQ PWS 5 and PWS 6 Review and Approval	
Day 209 to Day 239 HEI Final Design	Invoice at Day 239 \$6450
Day 239 to Day 329 DEQ plan review and Approval	
Day 329 to 343 COSA rewrite and submittal	Invoice at Day 342 \$4500
Day 343 to Day 373 COSA Approval at DEQ	
Day 373 to Day 400 Lift THOA Building Moratorium	Invoice at Day 400 \$5350

Should you agree with the Scope of Work and Fee Estimate, please indicate by way of your signature below and return one copy to us. This offering expires in 30 days. HEI is prepared to start this project immediately after receiving the signed proposal. Any delays will extend the project completion dates accordingly.

Please feel free to contact me at the Email, address or telephone numbers shown below. Thank you again for the opportunity to provide this proposal.

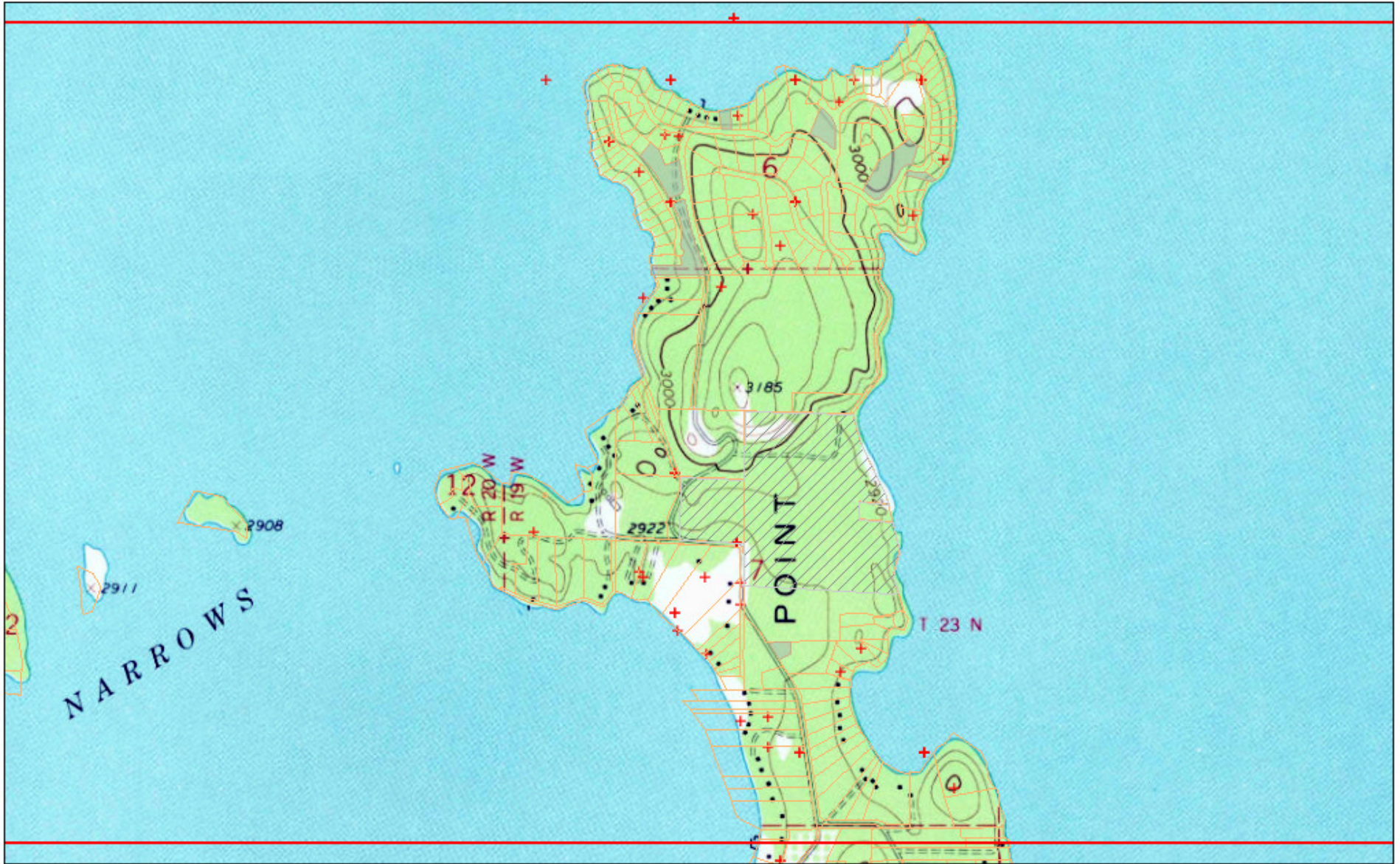
Respectfully,
Hafferman Engineering Inc.



Kurt Hafferman, P.E., President

APPENDIX B

MONTANA DIGITAL ATLAS LAND USE CHARACTERISTICS MAP AND REPORT

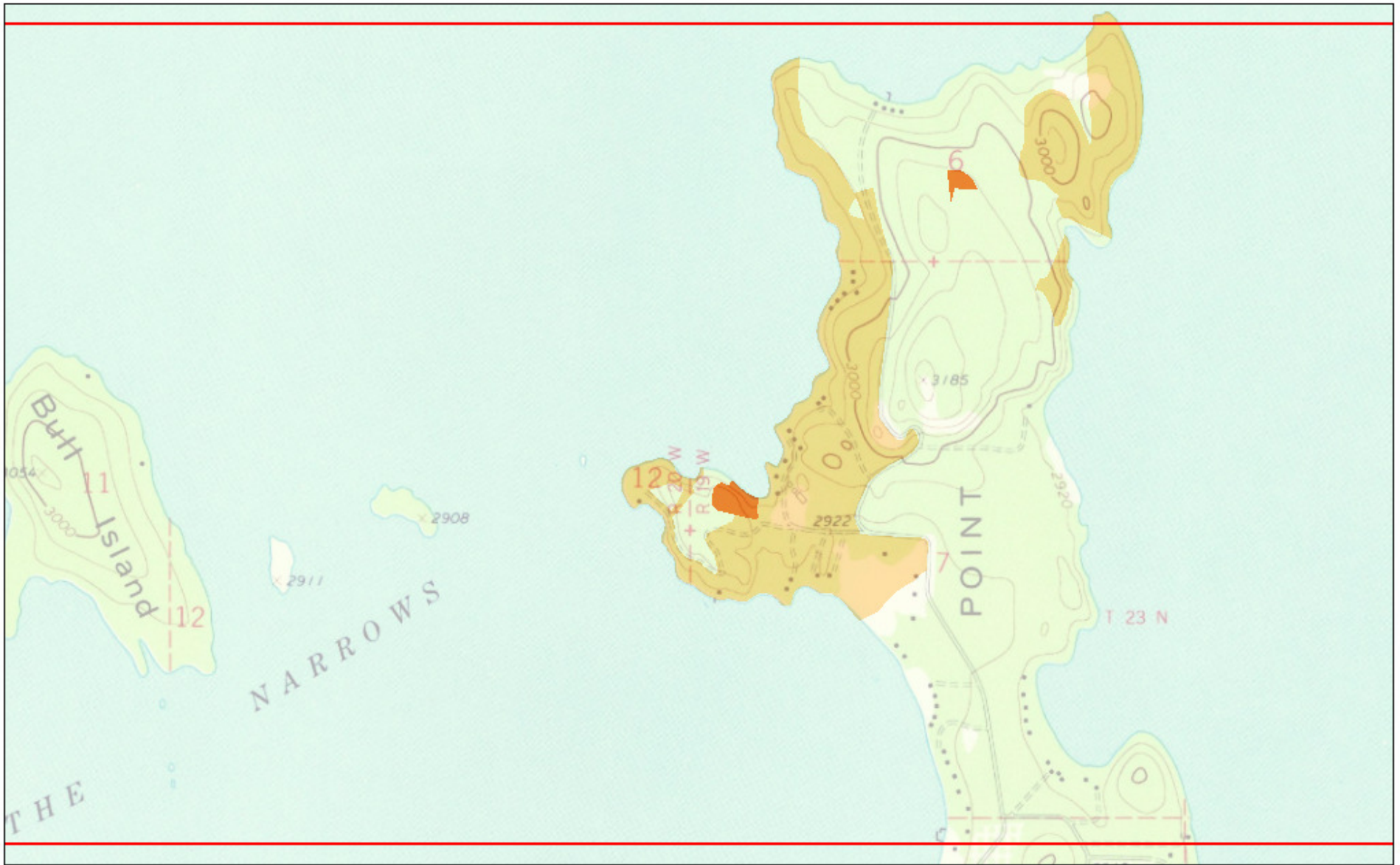


PUBLAND

-  Local Government
-  CONSERVATIONEASEMENTS
-  Parcels
-  GWCWELLS_VISUAL

Map created using the Digital Atlas October 27, 2019
<http://msl.mt.gov/GIS/Atlas>

Montana State Library - Digital Library
(406) 444-5354 | geoinfo@mt.gov | <http://msl.mt.gov>



- Septic System Density (2010)**
- Low
 - <all other values>
 - Municipal System
 - High
 - Medium

Map created using the Digital Atlas October 28, 2019
<http://msl.mt.gov/GIS/Atlas>

Montana State Library - Digital Library
 (406) 444-5354 | geoinfo@mt.gov | <http://msl.mt.gov>

Summary

Clip area: 3,220.26 acres

Owner Parcels

Record Count: 237

	Acres	Building Value	Land Value	Total Value	Cropped Acres	Irrigated Acres	Fallow Acres	Grazing Acres	Wild Hay Acres	Commercial Forest Acres
Total	341.67	\$31,658,357	\$70,008,583	\$101,666,940	15.08	0.00	0.00	21.86	0.00	82.98

Conservation Easements

Record Count: 1

	Acres
Total	67.10

Easement Holder

Total

	Record Count	Acres
Montana Land Reliance	1	67.10

Public Land

Record Count: 7

Owner

Total

	Record Count	Acres
County Government	7	12.03

Groundwater Information Center Wells

Record Count: 56

	Date Completed	Depth	Water Level	Depth Water Enters
Min	3/5/1967	115	4	0
Max	9/12/2018	705	194	640
Average	12/14/1993	339	63	204

Use Type

Total

	Record Count
null	0

Min

	Record Count	Date Completed	Depth	Water Level	Depth Water Enters
null	0	undefined	0	0	0

Max

	Record Count	Date Completed	Depth	Water Level	Depth Water Enters
null	0	undefined	0	0	0

Average

	Record Count	Date Completed	Depth	Water Level	Depth Water Enters
null	0	undefined	0	0	0

Site Type

Total

	Record Count

Record Count	
WELL	56

Min

	Record Count	Date Completed	Depth	Water Level	Depth Water Enters
WELL	56	3/5/1967	115	4	41

Max

	Record Count	Date Completed	Depth	Water Level	Depth Water Enters
WELL	56	9/12/2018	705	194	640

Average

	Record Count	Date Completed	Depth	Water Level	Depth Water Enters
WELL	56	12/14/1993	339	63	293

Owner Parcels

Record Count: 237

Owner Name	Parcel ID	Tax Year	Township	Range	Section	Legal Description	Acres	Address	City, State, Zip	Property Type	Building Value	Land Value	Total Value	Owner Address	Owner City	Owner State	Owner Zip	Levy District	Subdivision	Property ID	Cropped Acres	Irrigated Acres	Fallow Acres	Farmsite Acres	Grazing Acres	W H. Acr
NICHOLSON ALAN D	15335118103110000	2019	23 N	19 W	18	S18, T23 N, R19 W, TR B-1 COS 4578 (5.08 AC)	5.08	S FINLEY POINT RD	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$19,300	\$137	\$19,437	1 QUARRY LN	HELENA	MT	59601-5100	15-5477-23MC		961705	0.00	0.00	0.00	0.00	5.08	(
AKSHUN & AKSHUN INC	15335107401080000	2019	23 N	19 W	07	S07, T23 N, R19 W, C.O.S. 2181, ACRES 6.09, TR IN LT 8	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$214,640	\$713,000	\$927,640	10555 FIRESTONE BLVD	NORWALK	CA	90650-7409	15-5477-23MC		960992	0.00	0.00	0.00	0.00	0.00	(
FINLEY POINT COLORADO LLC	15335107201120000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, LOTS 1 & 2 & PT OF LOT 3 BLK 5	10.96	FINLEY POINT LN	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$10,656	\$10,656	MAIL TO: WOODYCREEK MANAGEMENT GROUP	DENVER	CO	80206-5200	15-5477-23MC	FINLEY POINT VILLA SITE	960175	4.01	0.00	0.00	0.00	0.00	(
FINLEY POINT COLORADO LLC	15335107201010000	2019	23 N	19 W	07	S07, T23 N, R19 W, TR 3 IN LTS 4 & 5 LESS TR	74.65		POLSON, MT 59860	FARM_R - Farmstead - Rural	\$760,420	\$405,850	\$1,166,270	MAIL TO: WOODYCREEK MANAGEMENT GROUP	DENVER	CO	80206-5200	15-5477-23MC		960471	0.00	0.00	0.00	0.00	0.00	(
SCHROEDER JAMES G & SHARON L	15335107201070000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 3, Lot 1A, TR A-1 BEING PT LOT 1 ON H-1874	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$113,500	\$304,000	\$417,500	484 PINE HOLLOW RD	STEVENSVILLE	MT	59870-6733	15-5477-23MC	FINLEY POINT VILLA SITE	959357	0.00	0.00	0.00	0.00	0.00	(
MCALPIN RANDA	15335107201090000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 006, Lot 01C, FINLEY PT VILLA SITE LOT 1-C BLK 3 H-1636	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$53,800	\$432,500	\$486,300	PO BOX 276	POLSON	MT	59860-0276	15-5477-23MC	FINLEY POINT VILLA SITE	961238	0.00	0.00	0.00	0.00	0.00	(
DESILVIA CRAIG & REBECCA TRUST ETAL	15335107402060000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, Lot 7	2.32		POLSON, MT 59860	FARM_R - Farmstead - Rural	\$317,730	\$3,252	\$320,982	31254 FINLEY POINT LN	POLSON	MT	59860-7810	15-5477-23MC	ODD FELLOWS VILLA	959302	0.72	0.00	0.00	1.00	0.60	(
BRUNNER CAROL FAMILY TRUST &	15335107301010000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 006, Lot 00A, TR A AMND PLAT OF PT LOT 3 AND ALL LOT 4 BLK 6 & PT GOVT LOT 1 OF 12-23-20	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$107,300	\$647,000	\$754,300	MAIL TO: LERETA/TEXAS OPERATIONS	DALLAS	TX	75235-0605	15-5477-23MC	FINLEY POINT VILLA SITE	959725	0.00	0.00	0.00	0.00	0.00	(
MCLAUGHLIN WILLIAM C JR	15335107301030000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 006, Lot 003, FINLEY PT VILLA SITE, LOT 3 BLK 6 LESS TR	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$242,575	\$444,125	\$686,700	PO BOX 875	POLSON	MT	59860-0875	15-5477-23MC	FINLEY POINT VILLA SITE	961255	0.00	0.00	0.00	0.00	0.00	(
AVERY SARITALIVING TRUST	15335107301040000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 006, Lot 002, LT 2	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$93,700	\$603,500	\$697,200	44489 TOWN CENTER WAY STE D	PALM DESERT	CA	92260-2789	15-5477-23MC	FINLEY POINT VILLA SITE	961147	0.00	0.00	0.00	0.00	0.00	(
NOVINSKI DANIEL & CAROLE	15335107201110000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 005, Lot 004, & H-2011	8.66		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$41,000	\$77,034	\$118,034	2321 STAGECOACH RD	GRAND ISLAND	NE	68801-7347	15-5477-23MC	FINLEY POINT VILLA SITE	961054	0.00	0.00	0.00	0.00	0.00	(

Owner Name	Parcel ID	Tax Year	Township	Range	Section	Legal Description	Acres	Address	City, State, Zip	Property Type	Building Value	Land Value	Total Value	Owner Address	Owner City	Owner State	Owner Zip	Levy District	Subdivision	Property ID	Cropped Acres	Irrigated Acres	Fallow Acres	Farmsite Acres	Grazing Acres	W H Acres	
STARK LIVING TRUST	15335107101010000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 001, Lot 013, FINLEY PT VILLA SITE LOT 13 BLK 1	0.00	30400 FINLEY POINT LN	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$197,850	\$421,125	\$618,975	351Buttonwood Drive	Brea	CA	92821-3520	15-5477-23MC	FINLEY POINT VILLA SITE	961501	0.00	0.00	0.00	0.00	0.00	0.00	
ROBINS GOOD MEDICINE ORCHARD LLC	15335118103010000	2019	23 N	19 W	18	S18, T23 N, R19 W, COS 3676 TR A (MENE) ORCHARD 2.47 ACS	2.47	S FINLEY POINT RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$3,758	\$3,758	4155 FOX FARM RD	MISSOULA	MT	59802-3081	15-5477-23MC		961434	2.47	0.00	0.00	0.00	0.00	0.00	
ROTH DONNA E	15335107403020000	2019	23 N	19 W	07	SKIDOO VILLA ESTATES, S07, T23 N, R19 W, Lot 006, LT 6 (COS 4965)	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$116,300	\$410,000	\$526,300	MAIL TO: ROTH URBAN L JR	CHANDLER	AZ	85226-7800	15-5477-23MC	SKIDOO VILLA ESTATES	961399	0.00	0.00	0.00	0.00	0.00	0.00	
VEALE JONATHAN S & MARA	15335118102140000	2019	23 N	19 W	18	S18, T23 N, R19 W, C.O.S. 6349, TR 3 (4.34 AC)	4.34		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$2,114	\$2,114	1723 MADERA DR	MISSOULA	MT	59802-5332	15-5477-23MC		954483	1.34	0.00	0.00	0.00	3.01		
PETERSON SHANE DANIEL & JONDELL RAYANNE	15335106310090000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 146, ACRES 0.7	0.70		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$850	\$38,030	\$38,880	1212 LAKESIDE DR	LOLO	MT	59847-9705	15-5477-23MC	MELLETT POINT NO 2	961074	0.00	0.00	0.00	0.00	0.00	0.00	
TURNER DONALD & SUSAN LIVING TRUST	15335107401020000	2019	23 N	19 W	07	S07, T23 N, R19 W, COS 3516 TR B	1.29		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$136,679	\$40,921	\$177,600	5452 E NEW RIVER RD	CAVE CREEK	AZ	85331-9042	15-5477-23MC		961597	0.00	0.00	0.00	0.00	0.00	0.00	
COOK GREGORY L	15335107403010000	2019	23 N	19 W	07	SKIDOO VILLA ESTATES, S07, T23 N, R19 W, Lot 007, LT 7	0.08	FINLEY POINT RD	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$230	\$363,872	\$364,102	680 OLIVE RD	SANTA BARBARA	CA	93108-1443	15-5477-23MC	SKIDOO VILLA ESTATES	958356	0.00	0.00	0.00	0.00	0.00	0.00	
TURNER ROBERT A	15335107401010000	2019	23 N	19 W	07	S07, T23 N, R19 W, COS 3516 TR A	4.31	TAKE FIVE LN	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$55,719	\$55,719	1531 E CLOUD RD	PHOENIX	AZ	85086-9232	15-5477-23MC		961606	0.00	0.00	0.00	0.00	0.00	0.00	
COLE PERRY J & MARY JO	15335107403120000	2019	23 N	19 W	07	S07, T23 N, R19 W, COS 4678 TR B	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$133,100	\$363,500	\$496,600	3652 TORREY VIEW CT	SAN DIEGO	CA	92130-2620	15-5477-23MC		961092	0.00	0.00	0.00	0.00	0.00	0.00	
WARD LAKE HOUSE LLC	15335107302090000	2019	23 N	19 W	07	S07, T23 N, R19 W, ACRES 1.068, H-795 TR A ASSR#3050	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$357,580	\$402,500	\$760,080	PO BOX 16010	MISSOULA	MT	59808-6010	15-5477-23MC		961611	0.00	0.00	0.00	0.00	0.00	0.00	
STARK KATHERINE L TRUSTEE OF NARROWS ISLAND TRUST	15335012301040000	2019	23 N	20 W	12	NARROWS VILLA SITE, S12, T23 N, R20 W, BLOCK 003, Lot 1	4.25	NARROWS IS	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$58,070	\$583,560	\$641,630	908 14TH AVE E	POLSON	MT	59860-3627	15-1477-23	NARROWS VILLA SITE	964189	0.00	0.00	0.00	0.00	0.00	0.00	
FINLEY POINT COLORADO LLC	15335107201020000	2019	23 N	19 W	07	S07, T23 N, R19 W, PT TR 3 IN LT 4	1.38		POLSON, MT 59860	FARM_R - Farmstead - Rural	\$178,000	\$359,029	\$537,029	MAIL TO: WOODYCREEK MANAGEMENT GROUP	DENVER	CO	80206-5200	15-5477-23MC		961595	0.00	0.00	0.00	0.00	0.00	0.00	
SALISH KOOTENAI COLLEGE FOUNDATION INC	15335012301020000	2019	23 N	20 W	12	NARROWS VILLA SITE, S12, T23 N, R20 W, BLOCK 1, Lot B	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$31,450	\$259,020	\$290,470	PO BOX 70	PABLO	MT	59855-0070	15-1477-23	NARROWS VILLA SITE	964347	0.00	0.00	0.00	0.00	0.00	0.00	
CRAWFORD WILLIAM D & SUSAN D	15335012101020000	2019	23 N	20 W	12	S12, T23 N, R20 W, TR IN LT 1TR A COS 4204	1.62		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$182,690	\$781,125	\$963,815	327 HILLTOP AVE	KALISPELL	MT	59901-2516	15-5477-23MC		961696	0.00	0.00	0.00	0.00	0.00	0.00	
WHITING WILLIAM C & CATHERINE L	15335106401010000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 078, LT 78	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$21,260	\$421,125	\$442,385	33791 FOX LN	POLSON	MT	59860-8568	15-5477-23MC	MELLETT POINT	961227	0.00	0.00	0.00	0.00	0.00	0.00	
WOLDORFF MARTIN G & CANSTANCE L	15335012301010000	2019	23 N	20 W	12	NARROWS VILLA SITE, S12, T23 N, R20 W, BLOCK 001, Lot 00A, AMND PLAT LOTS 2 & 3	0.00	BULL ISLAND RD	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$139,610	\$365,490	\$505,100	106 CAMILLE CT	CHAPEL HILL	NC	27516-1182	15-1477-23	NARROWS VILLA SITE	964599	0.00	0.00	0.00	0.00	0.00	0.00	
THORSRUD MONTANA PROPERTIES, LLC	15335106407020000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 48, ACRES 0.682	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$234,200	\$450,500	\$684,700	2265 E CORTE DEL SABIO	TUCSON	AZ	85718-7330	15-5477-23MC	MELLETT POINT	961565	0.00	0.00	0.00	0.00	0.00	0.00	
NICHOLSON ALAN D	15335118103030000	2019	23 N	19 W	18	S18, T23 N, R19 W, TR IN LT 2 TR A COS 4349 (2.84 AC)	1.84	31156 S FINLEY POINT RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$2,803	\$2,803	1 QUARRY LN	HELENA	MT	59601-5100	15-5477-23MC		960219	1.84	0.00	0.00	0.00	0.00	0.00	
TRIBAL	15335107201050000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 004, Lot 001, LTS 1-2-3 BLK 4 TRIBAL LAND	12.45		POLSON, MT 59860	EP - Exempt Property	\$0	\$95,605	\$95,605	GENERAL DELIVERY	PABLO	MT	59855-9999	15-5477-23MC	FINLEY POINT VILLA SITE	960583	0.00	0.00	0.00	0.00	0.00	0.00	
TRIBAL	15335107201100000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 003, Lot 002, LOT 2 BLK 3 TRIBAL LAND	4.32		POLSON, MT 59860	TP - Tribal Property	\$0	\$55,768	\$55,768	GENERAL DELIVERY	PABLO	MT	59855-9999	15-5477-23MC	FINLEY POINT VILLA SITE	960584	0.00	0.00	0.00	0.00	0.00	0.00	

Owner Name	Parcel ID	Tax Year	Township	Range	Section	Legal Description	Acres	Address	City, State, Zip	Property Type	Building Value	Land Value	Total Value	Owner Address	Owner City	Owner State	Owner Zip	Levy District	Subdivision	Property ID	Cropped Acres	Irrigated Acres	Fallow Acres	Farmsite Acres	Grazing Acres	W H. Aci
TRIBAL	15335107101020000	2019	23 N	19 W	07	S07, T23 N, R19 W, LOTS 1 THRU 12 & 14, BLK 1	0.00		POLSON, MT 59860	TP - Tribal Property	\$0	\$0	\$0	GENERAL DELIVERY	PABLO	MT	59855-9999	15-5477-23MC		960594	0.00	0.00	0.00	0.00	0.00	
HOGAN MARSHA ANNE	15335106406030000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 095, LT 95	0.61		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$216,711	\$37,589	\$254,300	275 JAMES RIVER RD	SCOTTSVILLE	VA	24590-3822	15-5477-23MC	MELLETT POINT NO 2	956454	0.00	0.00	0.00	0.00	0.00	
AKSHUN & AKSHUN INC	15335107401070000	2019	23 N	19 W	07	S07, T23 N, R19 W, C.O.S. 2181, PARCEL TR A, ACRES 2.14, ASSR #0000002525	0.00	31155 FINLEY POINT LN	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$423,200	\$450,500	\$873,700	10555 FIRESTONE BLVD	NORWALK	CA	90650-7409	15-5477-23MC		960998	0.00	0.00	0.00	0.00	0.00	
STEVE BOYCE LIVING TRUST	15335107401090000	2019	23 N	19 W	07	S07, T23 N, R19 W, TR IN GOVT LOT 8 H-724	0.00	31271 FINLEY POINT RD	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$245,600	\$447,500	\$693,100	1035 LONGSTAFF ST	MISSOULA	MT	59801-3623	15-5477-23MC		957499	0.00	0.00	0.00	0.00	0.00	
GRIMES ARLIN L	15335107101030000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 002, Lot 1-A, ACRES 1.99	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$237,690	\$578,000	\$815,690	PO BOX 651	DRIGGS	ID	83422-0651	15-5477-23MC	FINLEY POINT VILLA SITE	961191	0.00	0.00	0.00	0.00	0.00	
SWAN LINDA LEE ETAL	15335107201060000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 3, Lot 1A, H-1636	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$88,700	\$369,500	\$458,200	999 CHESTNUT AVE	HIGHWOOD	MT	59450-8729	15-5477-23MC	FINLEY POINT VILLA SITE	958917	0.00	0.00	0.00	0.00	0.00	
SCHIPF JOHN LIVING TRUST & ANNETTE LIVING TRUST	15335107201080000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 003, ACRES 1.43, H-1636 TR B	1.43		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$79,400	\$507,500	\$586,900	1458 SWAN RANCH LN	HIGHWOOD	MT	59450-8767	15-5477-23MC	FINLEY POINT VILLA SITE	958301	0.00	0.00	0.00	0.00	0.00	
TAYLOR BOYD A & ROBERTA	15335107403050000	2019	23 N	19 W	07	SKIDOO VILLA ESTATES, S07, T23 N, R19 W, Lot 003, LTS 3-4	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$278,430	\$636,500	\$914,930	3431 HANNIBAL ST	BUTTE	MT	59701-4523	15-5477-23MC	SKIDOO VILLA ESTATES	961558	0.00	0.00	0.00	0.00	0.00	
METZ LAKE TRUST	15335107101050000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 2, Lot 1-B, ACRES 2.137, AMND PLT OF LT 1	2.14	29973 FINLEY POINT LN	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$157,510	\$597,500	\$755,010	29973 FINLEY POINT LN	POLSON	MT	59860-7815	15-5477-23MC	FINLEY POINT VILLA SITE	961753	0.00	0.00	0.00	0.00	0.00	
							0.00				\$0	\$0	\$0								0.00	0.00	0.00	0.00	0.00	
							0.00				\$0	\$0	\$0								0.00	0.00	0.00	0.00	0.00	
ROTH DONNA E	15335107403030000	2019	23 N	19 W	07	SKIDOO VILLA ESTATES, S07, T23 N, R19 W, Lot 005, LT 5 (COS 4965)	0.00	34259 YELLOW PINE LN	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$706,960	\$410,000	\$1,116,960	MAIL TO: ROTH URBAN L JR	CHANDLER	AZ	85226-7800	15-5477-23MC	SKIDOO VILLA ESTATES	961400	0.00	0.00	0.00	0.00	0.00	
DANIEL MARIE U	15335012101030000	2019	23 N	20 W	12	S12, T23 N, R20 W, TR IN LOT 1 TR B COS 4204	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$86,500	\$456,000	\$542,500	MAIL TO: TOM DANIEL	BUTTE	MT	59701-4310	15-5477-23MC		961172	0.00	0.00	0.00	0.00	0.00	
ROSE TIMOTHY L & KRISTEN R	15335107301050000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 006, Lot 001, ACRES 4.08	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$236,640	\$800,000	\$1,036,640	17404 159TH AVE NE	WOODINVILLE	WA	98072-8100	15-5477-23MC	FINLEY POINT VILLA SITE	957720	0.00	0.00	0.00	0.00	0.00	
LANSING ANN & HARPER WILLIAM JOSEPH	15335012301050000	2019	23 N	20 W	12	NARROWS VILLA SITE, S12, T23 N, R20 W, BLOCK 001, Lot 1, COS 6501	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$276,500	\$536,000	\$812,500	PO BOX 59	HELENA	MT	59624-0059	15-1477-23	NARROWS VILLA SITE	964188	0.00	0.00	0.00	0.00	0.00	
WILLIAMS TERRY J & LINDA	15335107302020000	2019	23 N	19 W	07	FRIENDSHIP VILLAS, S07, T23 N, R19 W, Lot 002	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$220,400	\$533,000	\$753,400	PO BOX 809	FRENCHTOWN	MT	59834-0809	15-5477-23MC	FRIENDSHIP VILLAS	961233	0.00	0.00	0.00	0.00	0.00	
ROTH DONNA ETAL	15335107403100000	2019	23 N	19 W	07	S07, T23 N, R19 W, H-1909 IN LT 5	3.49			VAC_R - Vacant Land - Rural	\$0	\$51,701	\$51,701	MAIL TO: ROTH URBAN L JR	CHANDLER	AZ	59860-7800	15-5477-23MC		961559	0.00	0.00	0.00	0.00	0.00	
MCDONELL KATHERINE	15335012101060000	2019	23 N	20 W	12	S12, T23 N, R20 W, COS 4823 TR B	0.00	SNOWBERRY LN	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$562,100	\$562,100	4428 ASHCROFT AVE	CASTLE ROCK	CO	80104-8767	15-5477-23MC		960759	0.00	0.00	0.00	0.00	0.00	
REDMOND MARJORY M	15335107403080000	2019	23 N	19 W	07	S07, T23 N, R19 W, TR 1 IN LT 5 COS 2900	0.00	34103 CARAWAY LN	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$11,220	\$410,000	\$421,220	3321 OLD POND RD	MISSOULA	MT	59802-3250	15-5477-23MC		961366	0.00	0.00	0.00	0.00	0.00	
SPICHER DARLENE ETAL	15335107401040000	2019	23 N	19 W	07	S07, T23 N, R19 W, ACRES 2.27, H-391	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$101,260	\$434,000	\$535,260	3217 S CANYON ST	NAMPA	ID	83686-8379	15-5477-23MC		961492	0.00	0.00	0.00	0.00	0.00	
J & M FAMILY, LLC	15335107401060000	2019	23 N	19 W	07	S07, T23 N, R19 W, TR IN GOVT LOT 8	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$268,000	\$516,500	\$784,500	1476 W ELK VIEW CIR	MAPLETON	UT	84664-4808	15-5477-23MC		961120	0.00	0.00	0.00	0.00	0.00	
MORIARTY PAMELA ANN	15335012101010000	2019	23 N	20 W	12	S12, T23 N, R20 W, C.O.S. 4823, ACRES 2.53, TR A	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$489,120	\$809,250	\$1,298,370	35172 SNOWBERRY LN	POLSON	MT	59860-7881	15-5477-23MC		961216	0.00	0.00	0.00	0.00	0.00	

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FINLEY POINT COLORADO LLC	15335107302030000	2019	23 N	19 W	07	FRIENDSHIP VILLAS, S07, T23 N, R19 W, Lot 003	4.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$95,510	\$2,246	\$97,756	MAIL TO: WOODYCREEK MANAGEMENT GROUP	DENVER	CO	80206-5200	15-5477-23MC	FRIENDSHIP VILLAS	956343	0.00	0.00	0.00	1.00	3.00	(
ZIMMERMAN BRYAN K	15335107302050000	2019	23 N	19 W	07	FRIENDSHIP VILLAS, S07, T23 N, R19 W, LOTS 4-5 2.5 ACRES ORCHARD	7.80		POLSON, MT 59860	FARM_R - Farmstead - Rural	\$391,210	\$8,758	\$399,968	PO BOX 1286	POLSON	MT	59860-1286	15-5477-23MC	FRIENDSHIP VILLAS	960154	2.88	0.00	0.00	2.00	2.92	(
BOYCE JOHN R & ANNETTE M LIVING TRUST	15335107401100000	2019	23 N	19 W	07	S07, T23 N, R19 W, ACRES 2.47, H-724 (TR IN GOVT LOT 8) ASSR# 0000002278	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$440,990	\$447,500	\$888,490	455 COUNTY LINE RD	FLORENCE	MT	59833-6025	15-5477-23MC		957488	0.00	0.00	0.00	0.00	0.00	(
BLUE MOON INVESTMENTS LLC	15335107401110000	2019	23 N	19 W	07	S07, T23 N, R19 W, 6603, PARCEL A	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$56,060	\$936,500	\$992,560	PO BOX 4825	MISSOULA	MT	59806-4825	15-5477-23MC		961724	0.00	0.00	0.00	0.00	0.00	(
POMEROY LISA L, CHYENNE & SCOUT	15335107302010000	2019	23 N	19 W	07	FRIENDSHIP VILLAS, S07, T23 N, R19 W, Lot 001, LT 1	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$20,510	\$494,000	\$514,510	2435 HARKSELL RD	FERNDALE	WA	98248-9764	15-5477-23MC	FRIENDSHIP VILLAS	961126	0.00	0.00	0.00	0.00	0.00	(
ROSE TIMOTHY L & KRISTEN R	15335107202020000	2019	23 N	19 W	07	BORCHERS OF FINLEY POINT, S07, T23 N, R19 W, ACRES 0.71, LODGE TRACT & 2% IN COMMON AREA ASSR#0000003154	0.00	BORCHERS LN	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$497,297	\$554,703	\$1,052,000	17404 159TH AVE NE	WOODINVILLE	WA	98072-8100	15-5477-23MC	BORCHERS OF FINLEY POINT	961718	0.00	0.00	0.00	0.00	0.00	(
TRIBAL	15335107101040000	2019	23 N	19 W	07	S07, T23 N, R19 W	11.50		POLSON, MT 59860	TP - Tribal Property	\$0	\$90,950	\$90,950	GENERAL DELIVERY	PABLO	MT	59855-9999	15-5477-23MC		960582	0.00	0.00	0.00	0.00	0.00	(
DENSON RANCH, LLC	15335011101220000	2019	23 N	20 W	11	IDYLWILD SUBD A, S11, T23 N, R20 W, Lot B2, AMND	1.20			VAC_R - Vacant Land - Rural	\$0	\$62	\$62	361 DENSON RANCH ROAD LEDGER	SHELBY	MT	59474	15-1477-23	IDYLWILD SUBD A	1456253	0.00	0.00	0.00	0.00	0.00	(
DENSON RANCH, LLC	15335011101230000	2019	23 N	20 W	11	IDYLWILD SUBD A, S11, T23 N, R20 W, Lot B3, AMND ASSR#0000007047	1.22			VAC_R - Vacant Land - Rural	\$0	\$63	\$63	361 DENSON RANCH ROAD LEDGER	SHELBY	MT	59474	15-1477-23	IDYLWILD SUBD A	1456254	0.00	0.00	0.00	0.00	0.00	(
DENISON RANCH, LLC	15335011101200000	2019	23 N	20 W	11	IDYLWILD SUBD A, S11, T23 N, R20 W, Lot B1, AMND ASSR#0000005207	21.43			VAC_R - Vacant Land - Rural	\$0	\$1,104	\$1,104	361 DENSON RANCH ROAD LEDGER	SHELBY	MT	59474	15-1477-23	IDYLWILD SUBD A	964196	0.00	0.00	0.00	0.00	0.00	(
MURPHY RYAN O & PADDOCK ELIZABETH LAYNE	15335107402010000	2019	23 N	19 W	07	S07, T23 N, R19 W, C.O.S. 5223, ACRES 5.29, TR 1	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$63,830	\$588,750	\$652,580	3247 N HOYNE AVE	CHICAGO	IL	60618-6327	15-5477-23MC		961601	0.00	0.00	0.00	0.00	0.00	(
VALETT MATHEW B ETAL	15335107402130000	2019	23 N	19 W	07	S07, T23 N, R19 W, C.O.S. 5223, PARCEL TR 2, ACRES 6	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$227,330	\$919,000	\$1,146,330	1542 MEADOWLARK DR APT 13	GREAT FALLS	MT	59404-3350	15-5477-23MC		961760	0.00	0.00	0.00	0.00	0.00	(
RATZBURG DAYLE W & DOREEN L	15335107402050000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, Lot 008, LT 8	1.01		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$442,930	\$408,949	\$851,879	PO BOX 965	POLSON	MT	59860-0965	15-5477-23MC	ODD FELLOWS VILLA	961363	0.00	0.00	0.00	0.00	0.00	(
JORDAN LAKE LLC	15335107402030000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, ACRES 1.66, H-433 SE 48' OF LOT 9 ASSR#0000002281	1.66		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$14,720	\$334,744	\$349,464	110 RAMPART DR	BUTTE	MT	59701-4326	15-5477-23MC	ODD FELLOWS VILLA	959224	0.00	0.00	0.00	0.00	0.00	(
MISSION LODGE 86 100F	15335107402020000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, Lot 010, LT 10 & RESERVE	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$145,790	\$728,000	\$873,790	MAIL TO: KEYSER PAUL	POLSON	MT	59860-7367	15-5477-23MC	ODD FELLOWS VILLA	961203	0.00	0.00	0.00	0.00	0.00	(
DENSON RANCH, LLC	15335011101060000	2019	23 N	20 W	11	IDYLWILD SUBD A, S11, T23 N, R20 W, Lot A, ACRES 24.42, OF AMND PLAT OF SUBD 'A'	24.42	BULL ISLAND RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$1,258	\$1,258	361 DENSON RANCH ROAD LEDGER	SHELBY	MT	59474	15-1477-23	IDYLWILD SUBD A	964197	0.00	0.00	0.00	0.00	0.00	(
BEISER KENNETH J & JANET D	15335011101240000	2019	23 N	20 W	11	IDYLWILD SUBD A, S11, T23 N, R20 W, Lot B4, AMND	1.70	BULL ISLAND	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$42,650	\$2,590	\$45,240	31704 S FINLEY POINT RD	POLSON	MT	59860-7887	15-1477-23	IDYLWILD SUBD A	1456255	1.70	0.00	0.00	0.00	0.00	(
FEIST LIMITED PARTNERSHIP	15335107402090000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, Lot 004, LT 4	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$92,800	\$404,000	\$496,800	PO BOX 8958	MISSOULA	MT	59807-8958	15-5477-23MC	ODD FELLOWS VILLA	961091	0.00	0.00	0.00	0.00	0.00	(
FEIST LIMITED PARTNERSHIP	15335107402080000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, Lot 005, ODD FELLOWS VILLA LT 5 (COS 6251)	0.00		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$404,000	\$404,000	PO BOX 8958	MISSOULA	MT	59807-8958	15-5477-23MC	ODD FELLOWS VILLA	961650	0.00	0.00	0.00	0.00	0.00	(

Owner Name	Parcel ID	Tax Year	Township	Range	Section	Legal Description	Acres	Address	City, State, Zip	Property Type	Building Value	Land Value	Total Value	Owner Address	Owner City	Owner State	Owner Zip	Levy District	Subdivision	Property ID	Cropped Acres	Irrigated Acres	Fallow Acres	Farmsite Acres	Grazing Acres	W H. Aci
ECKMAN CLARA M TRUST	15335107402040000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, ACRES 1.93, H-433 NW 48' OF LOT 9 ASSR#0000002231	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$299,810	\$332,000	\$631,810	30996 N FINLEY POINT RD	POLSON	MT	59860-7841	15-5477-23MC	ODD FELLOWS VILLA	956701	0.00	0.00	0.00	0.00	0.00	
WOOLDRIDGE MONTANA PARTNERSHIP	15335118103050000	2019	23 N	19 W	18	S18, T23 N, R19 W, C.O.S. 5384, PARCEL A, ACRES 1.55, ASSR# 0000002797	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$436,750	\$551,000	\$987,750	7808 GLENSHANNON CIR	DALLAS	TX	75225-2055	15-5477-23MC		961320	0.00	0.00	0.00	0.00	0.00	
ANAM CARA REVOCABLE TRUST	15335107301020000	2019	23 N	19 W	07	FINLEY POINT VILLA SITE, S07, T23 N, R19 W, BLOCK 006, ACRES 4.07, TR B AMND PLAT OF PT LOT 3 & ALL LOT 4 BLK 6 & PT GOVT LOT 1 OF 12-23-20	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$4,140	\$748,500	\$752,640	4740 SOUTH AVE W	MISSOULA	MT	59804-6106	15-5477-23MC	FINLEY POINT VILLA SITE	959736	0.00	0.00	0.00	0.00	0.00	
DOBBERMAN ERIC J & LISA R LIVING TRUST	15335012101040000	2019	23 N	20 W	12	S12, T23 N, R20 W, TR IN GOVT LOT 1	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$2,100	\$393,300	\$395,400	4146 SHORELINE DR	SPRING PARK	MN	55384-9641	15-5477-23MC		961549	0.00	0.00	0.00	0.00	0.00	
STARKE KATHERINE L TRUSTEE NARROWS ISLAND TRUST	15335012301030000	2019	23 N	20 W	12	NARROWS VILLA SITE, S12, T23 N, R20 W, BLOCK 002, Lot 1	1.66	NARROWS IS	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$380,840	\$380,840	908 14TH AVE E	POLSON	MT	59860-3627	15-1477-23	NARROWS VILLA SITE	964600	0.00	0.00	0.00	0.00	0.00	
MERRITT ROY D & NORMA R TRUSTS	15335107302060000	2019	23 N	19 W	07	FRIENDSHIP VILLAS, S07, T23 N, R19 W, Lot 6, ACRES 3.8, ASSR#0000002433	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$209,300	\$542,000	\$751,300	63 GARDEN CREEK RD	HOT SPRINGS	MT	59845-9312	15-5477-23MC	FRIENDSHIP VILLAS	960186	0.00	0.00	0.00	0.00	0.00	
MILLER FAMILY REVOCABLE LIVING TRUST	15335118102110000	2019	23 N	19 W	18	S18, T23 N, R19 W, 6349, PARCEL N/A, COS 6349 TR 1 (1 ACRE)	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$332,425	\$328,875	\$661,300	2343 YALE AVE E	SEATTLE	WA	98102-3309	15-5477-23MC		960848	0.00	0.00	0.00	0.00	0.00	
YOUNG DWIGHT W & JOAN C	15335107402070000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, Lot 006, LT 6	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$6,030	\$404,000	\$410,030	1738 W CENTRAL AVE	MISSOULA	MT	59801-5525	15-5477-23MC	ODD FELLOWS VILLA	961533	0.00	0.00	0.00	0.00	0.00	
EDGAR CHRISTINE S	15335107403060000	2019	23 N	19 W	07	SKIDOO VILLA ESTATES, S07, T23 N, R19 W, Lot 002, LT 2	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$228,150	\$400,050	\$628,200	PO BOX 17496	MISSOULA	MT	59808-7496	15-5477-23MC	SKIDOO VILLA ESTATES	961331	0.00	0.00	0.00	0.00	0.00	
VALETT FAMILY LIMITED PARTNERSHIP	15335107402140000	2019	23 N	19 W	07	S07, T23 N, R19 W, C.O.S. 5223, TR 3 (4.43 AC)	4.42		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$10,540	\$679,875	\$690,415	MAIL TO: LITTELL STEPHEN	EVANSTON	IL	60202-1220	15-5477-23MC		961757	0.00	0.00	0.00	0.00	0.00	
VEALE JONATHAN S & MARA	15335118102130000	2019	23 N	19 W	18	S18, T23 N, R19 W, C.O.S. 6349, TR 2 (1 ACRE)	1.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$255,350	\$2,144	\$257,494	1723 MADERA DR	MISSOULA	MT	59802-5332	15-5477-23MC		954481	0.00	0.00	0.00	1.00	0.00	
EBEL PAMELA MARIE ETAL	15335107402110000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, Lot 002, LT 2	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$68,800	\$404,000	\$472,800	4116 23RD AVE	MISSOULA	MT	59803-1149	15-5477-23MC	ODD FELLOWS VILLA	959150	0.00	0.00	0.00	0.00	0.00	
FEIST LIMITED PARTNERSHIP	15335107402100000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, Lot 3, ACRES 1.401	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$166,400	\$404,000	\$570,400	PO BOX 8958	MISSOULA	MT	59807-8958	15-5477-23MC	ODD FELLOWS VILLA	961659	0.00	0.00	0.00	0.00	0.00	
ROBINS GOOD MEDICINE ORCHARD LLC	15335118103040000	2019	23 N	19 W	18	S18, T23 N, R19 W, TR IN LT 2 TR 1 STAVES TBS	1.36		POLSON, MT 59860	FARM_R - Farmstead - Rural	\$242,300	\$2,335	\$244,635	4155 FOX FARM RD	MISSOULA	MT	59802-3081	15-5477-23MC		961433	0.12	0.00	0.00	1.00	0.24	
CONDO MASTER	15335107202017777	2019	23 N	19 W	07	BORCHERS OF FINLEY POINT, S07, T23 N, R19 W	19.60				\$101,670	\$5,336,100	\$5,437,770					15-5477-23MC	BORCHERS OF FINLEY POINT	954767	0.00	0.00	0.00	0.00	0.00	
REDMOND MARJORY M	15335107403090000	2019	23 N	19 W	07	S07, T23 N, R19 W, TR A COS 4678	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$383,190	\$759,500	\$1,142,690	3321 OLD POND RD	MISSOULA	MT	59802-3250	15-5477-23MC		961365	0.00	0.00	0.00	0.00	0.00	
MEAD FAMILY TRUST	15335107202017411	2019	23 N	19 W	07	BORCHERS OF FINLEY POINT, S07, T23 N, R19 W, UNIT 411, 2% COMMON AREA INTEREST, ASSR#0000036033	0.02	30357 OSPREY LN	POLSON, MT 59860	KR - Condominium Rural	\$255,865	\$141,435	\$397,300	29029 N SHANNON DR	SAN TAN VLY	AZ	85143-3972	15-5477-23MC	BORCHERS OF FINLEY POINT	954336	0.00	0.00	0.00	0.00	0.00	
VITT MARTY ANN	15335107302120000	2019	23 N	19 W	07	S07, T23 N, R19 W, S 130' OF GOVT LOT 6	0.00				\$13,130	\$409,500	\$422,630	2303 STAGECOACH TRAIL RD	MANHATTAN	MT	59741-8217	15-5477-23MC		961605	0.00	0.00	0.00	0.00	0.00	
CRERAR GARY DAVID TRUSTEE	15335107302110000	2019	23 N	19 W	07	S07, T23 N, R19 W, FRAC PART GOVT LOT 6 TR B2 H-1050	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$141,800	\$327,500	\$469,300	30657 TAKE FIVE LN	POLSON	MT	59860-8966	15-5477-23MC		958973	0.00	0.00	0.00	0.00	0.00	

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HIAM GARY T & MAUREEN E	15335107302100000	2019	23 N	19 W	07	S07, T23 N, R19 W, TR IN GOVT LOT 6 H-1050 TR B1	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$181,400	\$335,000	\$516,400	10124 48TH AVE E	TACOMA	WA	98446-4642	15-5477-23MC		961272	0.00	0.00	0.00	0.00	0.00	(
HEAD FRANK M JR	15335107302080000	2019	23 N	19 W	07	S07, T23 N, R19 W, TR IN LT 6 & E 1/2 LOT 7 H 580	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$82,700	\$395,000	\$477,700	1730 HELEN AVE	MISSOULA	MT	59801-5937	15-5477-23MC		960982	0.00	0.00	0.00	0.00	0.00	(
STEFFES DIANA COX	15335107302070000	2019	23 N	19 W	07	S07, T23 N, R19 W, TR IN LT 6 H-783	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$101,600	\$395,000	\$496,600	CLARK STEFFES	SOUTH JORDAN	UT	84095-7958	15-5477-23MC		958940	0.00	0.00	0.00	0.00	0.00	(
MCKENNA JAMES E &	15335106307060000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 112, LOTS 112-113	1.67	PEACHTREE DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$42,783	\$42,783	2914 70TH AVE SE	MERCER ISLAND	WA	98040-2611	15-5477-23MC	MELLETT POINT NO 2	961530	0.00	0.00	0.00	0.00	0.00	(
ANDERSON MICHAEL W & KELLY S	15335106307070000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 111	0.93	PEACHTREE DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$39,157	\$39,157	5526 CIRCLE DR	FLORENCE	MT	59833-6636	15-5477-23MC	MELLETT POINT NO 2	961359	0.00	0.00	0.00	0.00	0.00	(
NORDBERG FAMILY TRUST	15335106303060000	2019	23 N	19 W	06	MELLETT POINT 016, S06, T23 N, R19 W, Lot 19A, ACRES 0.53, OF AMND PLOT OF LOT 19 ASSR#0000002754	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$354,625	\$310,875	\$665,500	29673 WESTSIDE DR N	POLSON	MT	59860-7869	15-5477-23MC	MELLETT POINT	961271	0.00	0.00	0.00	0.00	0.00	(
GANNON FAMILY TRUST	15335106306050000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 037, LT 37	1.04		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$18	\$18	29565 FINLEY POINT LANE	POLSON	MT	59860-8927	15-5477-23MC	MELLETT POINT	961424	0.00	0.00	0.00	0.00	1.04	(
SMITH LIVING TRUST	15335106404010000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 060, LOT 60	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$124,800	\$316,500	\$441,300	28996 FINLEY POINT LN	POLSON	MT	59860-7765	15-5477-23MC	MELLETT POINT	961481	0.00	0.00	0.00	0.00	0.00	(
SHAFIZADEH FAMILY LLC	15335106305060000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 031, LOT 31	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$61,400	\$426,500	\$487,900	1905 MEADOWVIEW CT	MISSOULA	MT	59802-9651	15-5477-23MC	MELLETT POINT	961454	0.00	0.00	0.00	0.00	0.00	(
GANNON FAMILY TRUST	15335106306070000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 041, LT 41	3.47	29565 N FINLEY POINT DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$61	\$61	29565 FINLEY POINT LANE	POLSON	MT	59860-8927	15-5477-23MC	MELLETT POINT	961680	0.00	0.00	0.00	0.00	3.47	(
GANNON FAMILY TRUST	15335106306060000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 038, LT 38	3.50	29565 FINLEY POINT RD	POLSON, MT 59860	FARM_R - Farmstead - Rural	\$1,641,540	\$2,188	\$1,643,728	29565 FINLEY POINT LANE	POLSON	MT	59860-8927	15-5477-23MC	MELLETT POINT	961677	0.00	0.00	0.00	1.00	2.50	(
BUCKNUM FRANK M	15335106302020000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 2, ACRES 0.72, COS 7069	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$569,300	\$410,000	\$979,300	29971 WESTSIDE DR S	POLSON	MT	59860-7871	15-5477-23MC	MELLETT POINT	959051	0.00	0.00	0.00	0.00	0.00	(
GUY ROBERT & CINDY KAY	15335106309060000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 131	0.92		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$253,492	\$39,108	\$292,600	29963 MISSION VIEW RD	POLSON	MT	59860-7858	15-5477-23MC	MELLETT POINT NO 2	960781	0.00	0.00	0.00	0.00	0.00	(
MCGINN SUSAN G &	15335106310010000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 142, LOT 142	0.89	MISSION VIEW RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$38,961	\$38,961	2719 SE 48TH AVE	PORTLAND	OR	97206-1518	15-5477-23MC	MELLETT POINT NO 2	961033	0.00	0.00	0.00	0.00	0.00	(
MALONE PAULA TRUSTEE	15335106301040000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 127A, ACRES 1.46, LOT 126A OF AMND LOTS 126 & 127 MELLETT POINT 2 ASSR #0000036193	1.46	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$41,754	\$41,754	2700 LANTERN LN	NAPLES	FL	34102-7752	15-5477-23MC	MELLETT POINT NO 2	1432063	0.00	0.00	0.00	0.00	0.00	(
KITCHIN JAMES O & MYRNA T	15335106308040000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 123, LOT 123	1.45	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$41,705	\$41,705	240 EDITH ST	MISSOULA	MT	59801-3918	15-5477-23MC	MELLETT POINT NO 2	961100	0.00	0.00	0.00	0.00	0.00	(
GLYSHAW ADELINE R	15335106311010000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 147, LOT 147	0.63	PEACHTREE DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$37,687	\$37,687	15 SCHMITT RD	LUSTRE	MT	59225-9620	15-5477-23MC	MELLETT POINT NO 2	960715	0.00	0.00	0.00	0.00	0.00	(
LAKE COUNTY	15335106306080000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, PARK MELLETT PO INT DEDICATED TO THE PUBLIC	0.15			TP - Tribal Property	\$0	\$35,311	\$35,311	106 4TH AVE E	POLSON	MT	59860-2125	15-5477-23MC	MELLETT POINT	960155	0.00	0.00	0.00	0.00	0.00	(
LAKE COUNTY	15335106304040000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, PARK MELLETT POINT DEDICATED TO THE PUBLIC FOREVER	2.54			EP - Exempt Property	\$0	\$47,046	\$47,046	106 4TH AVE E	POLSON	MT	59860-2125	15-5477-23MC	MELLETT POINT NO 2	960152	0.00	0.00	0.00	0.00	0.00	(
SHAFIZADEH FAMILY LLC	15335106308050000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 124, LOTS 124-125	2.26	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$45,674	\$45,674	1905 MEADOWVIEW CT	MISSOULA	MT	59802-9651	15-5477-23MC	MELLETT POINT NO 2	961455	0.00	0.00	0.00	0.00	0.00	(

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LAKE COUNTY	15335106405050000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, PARK MELLET PO INT DEDICATED TO THE PUBLIC FOREVER	3.38			TP - Tribal Property	\$0	\$51,162	\$51,162	106 4TH AVE E	POLSON	MT	59860-2125	15-5477-23MC	MELLETT POINT NO 2	960158	0.00	0.00	0.00	0.00	0.00	
LAKE COUNTY	15335106306010000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, PARK DEDICATED TO THE PUBLIC FOREVER	0.00			EP - Exempt Property	\$0	\$363,500	\$363,500	106 4TH AVE E	POLSON	MT	59860-2125	15-5477-23MC	MELLETT POINT	960153	0.00	0.00	0.00	0.00	0.00	
LAKE COUNTY	15335106402060000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, PARK	0.00			EP - Exempt Property	\$0	\$365,000	\$365,000	106 4TH AVE E	POLSON	MT	59860-2125	15-5477-23MC	MELLETT POINT	960156	0.00	0.00	0.00	0.00	0.00	
WHALEY JAMES H & LISA R	15335106307110000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 118, LOTS 118A-119A	1.16	HILLTOP DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$40,284	\$40,284	530 N ORANGE ST	MISSOULA	MT	59802-4129	15-5477-23MC	MELLETT POINT NO 2	961055	0.00	0.00	0.00	0.00	0.00	
NOVIS DAVID E & BRIDGET L	15335106406020000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 080, ACRES 1.49	1.49	LANIER LN	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$41,901	\$41,901	1590 CORNERSTONE DR	MISSOULA	MT	59802-8611	15-5477-23MC	MELLETT POINT NO 2	959368	0.00	0.00	0.00	0.00	0.00	
MCGINN SUSAN G &	15335106310070000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 142, LOT 144	0.68			VAC_R - Vacant Land - Rural	\$0	\$37,932	\$37,932	2719 SE 48TH AVE	PORTLAND	OR	97206-1518	15-5477-23MC	MELLETT POINT NO 2	961034	0.00	0.00	0.00	0.00	0.00	
KELSIC RICHARD H & LYNDIA JILL	15335106309050000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 132, ACRES 0.82	0.82		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$301,482	\$38,618	\$340,100	6853 S MILLER ST	LITTLETON	CO	80127-2918	15-5477-23MC	MELLETT POINT NO 2	960793	0.00	0.00	0.00	0.00	0.00	
KORENBERG ROBERT J & BARBARA A LIVING TRUST	15335106404050000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 54, ASSR# 0000002676	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$327,275	\$547,125	\$874,400	7769 MISSOULA GO CLUSTER	MISSOULA	MT	59808-5519	15-5477-23MC	MELLETT POINT	961171	0.00	0.00	0.00	0.00	0.00	
MORDOCK TOM & BARBARA REVOCABLE TRUST	15335106405060000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 00C, MELLET POINT #2 LOT C (.74 AC)AMND PLAT	0.74		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$164,874	\$38,226	\$203,100	1087 BAL HARBOR BLVD	PUNTA GORDA	FL	33950-6572	15-5477-23MC	MELLETT POINT NO 2	961747	0.00	0.00	0.00	0.00	0.00	
GRONEBERG THOMAS T & JENNIFER L	15335106310050000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 138, LOT 138	0.75		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$219,925	\$38,275	\$258,200	5515 STUCKY RD	BOZEMAN	MT	59718-9036	15-5477-23MC	MELLETT POINT NO 2	961080	0.00	0.00	0.00	0.00	0.00	
CRAWLEY CHERYL K	15335106309010000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 136, LTS 136-137	1.61		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$354,611	\$42,489	\$397,100	612 LINDEN DR	GREAT FALLS	MT	59404-3539	15-5477-23MC	MELLETT POINT NO 2	960737	0.00	0.00	0.00	0.00	0.00	
MARTIN GARY	15335106304030000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 151	0.56	WESTSIDE DR N	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$37,344	\$37,344	3054 68TH AVE SE	MERCER ISLAND	WA	98040-2533	15-5477-23MC	MELLETT POINT NO 2	956443	0.00	0.00	0.00	0.00	0.00	
SOHLBERG KRISTEN	15335106401090000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 108	1.21	PEACHTREE DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$40,529	\$40,529	18 MARTHAS CT	MISSOULA	MT	59803-1056	15-5477-23MC	MELLETT POINT NO 2	1566273	0.00	0.00	0.00	0.00	0.00	
LITTELL STEPHEN W	15335106304050000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 161, LOT 161	0.67		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$8,840	\$37,883	\$46,723	1217 OAK AVE	EVANSTON	IL	60202-1220	15-5477-23MC	MELLETT POINT NO 2	961140	0.00	0.00	0.00	0.00	0.00	
LAKE COUNTY	15335106302010000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, PARK MELLET POINT DEDICATED TO THE PUBLIC FOREVER	3.18			EP - Exempt Property	\$0	\$50,182	\$50,182	106 4TH AVE E	POLSON	MT	59860-2125	15-5477-23MC	MELLETT POINT	960151	0.00	0.00	0.00	0.00	0.00	
STARK C MAX & CHARLOTTE M	15335106406010000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 092, LTS 92-94 & 97-102 & 105	6.39	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$65,911	\$65,911	38475 MOUNTAIN VIEW RD	POLSON	MT	59860-7336	15-5477-23MC	MELLETT POINT NO 2	961499	0.00	0.00	0.00	0.00	0.00	
DIETRICH FREDERICK WALTER	15335106301030000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 127A, ACRES 1.01, AMND LOTS 126 & 127	1.01		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$72,449	\$72,449	2772 KINNICKINNICK RD UNIT C	VAIL	CO	81657	15-5477-23MC	MELLETT POINT NO 2	956487	0.00	0.00	0.00	0.00	0.00	
MILES DONALD R & PAULY R	15335106405040000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 089, LOT 89	0.50		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$124,950	\$37,050	\$162,000	3100 EDWARDS ST	BUTTE	MT	59701-4617	15-5477-23MC	MELLETT POINT NO 2	961510	0.00	0.00	0.00	0.00	0.00	
ROBERTSON DAVID L	15335106403050000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 064, LOT 64	0.00	FINLEY POINT LN	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$316,500	\$316,500	1023 EMERALD HILLS DR	BILLINGS	MT	59101-7220	15-5477-23MC	MELLETT POINT	961384	0.00	0.00	0.00	0.00	0.00	
SIEFERT KAREN ETAL	15335106305020000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 27	0.67		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$97,460	\$515,000	\$612,460	1108 WESTMORELAND CIR	WALNUT CREEK	CA	94596-6335	15-5477-23MC	MELLETT POINT	961470	0.00	0.00	0.00	0.00	0.00	

Owner Name	Parcel ID	Tax Year	Township	Range	Section	Legal Description	Acres	Address	City, State, Zip	Property Type	Building Value	Land Value	Total Value	Owner Address	Owner City	Owner State	Owner Zip	Levy District	Subdivision	Property ID	Cropped Acres	Irrigated Acres	Fallow Acres	Farmsite Acres	Grazing Acres	W H: Aci
HARTE PAULETTE C	15335106407070000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 043, LT 43	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$6,840	\$506,700	\$513,540	264 SENECA RD	BENTON HARBOR	MI	49022-5637	15-5477-23MC	MELLETT POINT	961175	0.00	0.00	0.00	0.00	0.00	(
NOVIS DAVID E & BRIDGET L	15335106407060000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 044, LOT 44	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$180,700	\$504,000	\$684,700	1590 CORNERSTONE DR	MISSOULA	MT	59802-8611	15-5477-23MC	MELLETT POINT	961458	0.00	0.00	0.00	0.00	0.00	(
HUNT DOREL A	15335106401020000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 077, LOT 77	0.00	PEACHTREE DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$307,500	\$307,500	5448 E 9000N RD	MANTENO	IL	60950-3315	15-5477-23MC	MELLETT POINT	960241	0.00	0.00	0.00	0.00	0.00	(
TOLLIVER ANTHONY J	15335106405010000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 00A, ACRES 3.17, LOT A AMND LOT	3.17		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$217,467	\$50,133	\$267,600	29165 FINLEY POINT LN	POLSON	MT	59860-7769	15-5477-23MC	MELLETT POINT NO 2	956476	0.00	0.00	0.00	0.00	0.00	(
BENTHAM RANDY	15335106309020000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 135, LT 135	1.35		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$94,985	\$41,215	\$136,200	PO BOX 5352	MISSOULA	MT	59806-5352	15-5477-23MC	MELLETT POINT NO 2	956432	0.00	0.00	0.00	0.00	0.00	(
GRONEBERG THOMAS T & JENNIFER L	15335106310040000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 139, LOT 139	0.89		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$38,961	\$38,961	5515 STUCKY RD	BOZEMAN	MT	59718-9036	15-5477-23MC	MELLETT POINT NO 2	961614	0.00	0.00	0.00	0.00	0.00	(
HARDY ROBERT E & JANET E LIVING TRUST	15335106302070000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 6A, ACRES 0.74, AMND PLAT OF LTS 6 & 7	0.00	29873 WESTSIDE DR	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$235,790	\$449,000	\$684,790	29873 WESTSIDE DR S	POLSON	MT	59860-7872	15-5477-23MC	MELLETT POINT	959139	0.00	0.00	0.00	0.00	0.00	(
SHIPE TILFORD C & MARJORIE W TRUSTEES	15335106303090000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 023, LOT 23	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$129,100	\$387,375	\$516,475	29619 WESTSIDE DR N	POLSON	MT	59860-7869	15-5477-23MC	MELLETT POINT	961463	0.00	0.00	0.00	0.00	0.00	(
SOHLBERG KRISTEN	15335106401050000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 075	1.82	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$417,500	\$417,500	18 MARTHAS CT	MISSOULA	MT	59803-1056	15-5477-23MC	MELLETT POINT	961386	0.00	0.00	0.00	0.00	0.00	(
TACK BRIAN F & MC CARTER LINDA L	15335106309030000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 134, ACRES 1.36	1.36		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$41,264	\$41,264	914 FOSTER RD	IOWA CITY	IA	52245-1648	15-5477-23MC	MELLETT POINT NO 2	961119	0.00	0.00	0.00	0.00	0.00	(
FORD ROBERT K & BONAWEE J	15335106302050000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 005, LT 5	0.00		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$413,000	\$413,000	3710 AMERICAN WAY APT 324	MISSOULA	MT	59808-1927	15-5477-23MC	MELLETT POINT	961305	0.00	0.00	0.00	0.00	0.00	(
TATE HERB TRUSTEE &	15335106310030000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 140, LT 140	1.03		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$39,647	\$39,647	MAIL TO: HERB TATE	TIBURON	CA	94920-1823	15-5477-23MC	MELLETT POINT NO 2	961620	0.00	0.00	0.00	0.00	0.00	(
DIETRICH FREDERICK WALTER	15335106301020000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 129, ACRES 2.52, AMND LTS 128 & 129	2.52		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$267,752	\$79,848	\$347,600	2772 KINNICKINNICK RD UNIT C	VAIL	CO	81657	15-5477-23MC	MELLETT POINT NO 2	961152	0.00	0.00	0.00	0.00	0.00	(
LECKIE ROSS & SARAH	15335106302040000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 004, LT 4	0.00	29957 WESTSIDE DR S	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$160,900	\$411,500	\$572,400	PO BOX 56	POLSON	MT	59860-0056	15-5477-23MC	MELLETT POINT	960308	0.00	0.00	0.00	0.00	0.00	(
GUTHRIE WENDELL W & JUDITH L	15335106405030000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 00B, MELLETT POINT #2 LT B AMD PLAT (.589 AC)	0.59		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$184,014	\$37,486	\$221,500	311 MARY AVE	MISSOULA	MT	59801-8701	15-5477-23MC	MELLETT POINT NO 2	961500	0.00	0.00	0.00	0.00	0.00	(
TOOLE JOAN TRIMPLE IRREVOCABLE TRUST	15335106303100000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 024, LOT 24	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$106,075	\$439,125	\$545,200	1604 HARRIS CT	HELENA	MT	59601-5405	15-5477-23MC	MELLETT POINT	961389	0.00	0.00	0.00	0.00	0.00	(
SCHOENECKER JO SELVIG REVOCABLE TRUST	15335106304070000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 159, LOT 159	0.57		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$150,607	\$37,393	\$188,000	3054 68TH AVE SE	MERCER ISLAND	WA	98040-2533	15-5477-23MC	MELLETT POINT NO 2	961556	0.00	0.00	0.00	0.00	0.00	(
MCNATT SUSAN A	15335106403070000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 062, LOT 62	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$85,125	\$337,875	\$423,000	29028 FINLEY POINT LN	POLSON	MT	59860-6805	15-5477-23MC	MELLETT POINT	961451	0.00	0.00	0.00	0.00	0.00	(
SCHOENECKER JO SLEVIG ETAL	15335106304020000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 152	0.49	WESTSIDE DR N	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$37,001	\$37,001	3054 68TH AVE SE	MERCER ISLAND	WA	98040-2533	15-5477-23MC	MELLETT POINT NO 2	960027	0.00	0.00	0.00	0.00	0.00	(
FOSTER RODNEY C III & KAREN	15335106304060000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 160, LOT 160	0.66		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$334,966	\$37,834	\$372,800	1345 E 7TH ST APT 112	WHITEFISH	MT	59937-2808	15-5477-23MC	MELLETT POINT NO 2	960959	0.00	0.00	0.00	0.00	0.00	(
ROBINSON OWEN B	15335106306040000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 036, LT 36	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$181,200	\$410,000	\$591,200	MAIL TO: MARJORIE LACY	FLAGSTAFF	AZ	86004-7591	15-5477-23MC	MELLETT POINT	961387	0.00	0.00	0.00	0.00	0.00	(
LONG LAKE PROPERTY LLC	15335106306030000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 035, LT 35 1	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$341,800	\$410,000	\$751,800	8720 ROLLER COASTER RD	MISSOULA	MT	59808-8498	15-5477-23MC	MELLETT POINT	961149	0.00	0.00	0.00	0.00	0.00	(

Owner Name	Parcel ID	Tax Year	Township	Range	Section	Legal Description	Acres	Address	City, State, Zip	Property Type	Building Value	Land Value	Total Value	Owner Address	Owner City	Owner State	Owner Zip	Levy District	Subdivision	Property ID	Cropped Acres	Irrigated Acres	Fallow Acres	Farmsite Acres	Grazing Acres	W H. Aci
DE MAROIS ROBERT E & JUDITH E	15335106404080000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 059	0.00	28956 FINLEY POINT LN	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$419,000	\$419,000	6 LAGUNA POINT RD	CHICO	CA	95928-3933	15-5477-23MC	MELLETT POINT	1573550	0.00	0.00	0.00	0.00	0.00	
CANHAM DONALD H & MAYME A REV LIV TRUST DATED JULY 20,2012	15335106404040000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 056, LOT 56	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$94,830	\$312,000	\$406,830	1802 HILDA AVE	MISSOULA	MT	59801-5913	15-5477-23MC	MELLETT POINT	958012	0.00	0.00	0.00	0.00	0.00	
DONALD R LEE REVOCABLE TRUST	15335106303110000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 025, LOT 25	0.00	WESTSIDE DR N	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$448,125	\$448,125	3137 AVENUE F	BILLINGS	MT	59102-6514	15-5477-23MC	MELLETT POINT	956554	0.00	0.00	0.00	0.00	0.00	
MALONE PAULA J TRUSTEE	15335106308030000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 122, LOT 122	1.74	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$43,126	\$43,126	4301 GULF SHORE BLVD N APT 402	NAPLES	FL	34103-3477	15-5477-23MC	MELLETT POINT NO 2	956498	0.00	0.00	0.00	0.00	0.00	
KENNEDY PROPERTIES LLC	15335106403060000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 063	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$483,300	\$316,500	\$799,800	1214 LONGVIEW RD	LAUREL	MT	59044-1864	15-5477-23MC	MELLETT POINT	958034	0.00	0.00	0.00	0.00	0.00	
9356 BLAINE LLC	15335106404030000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 057	0.00	28956 FINLEY POINT LN	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$124,150	\$314,250	\$438,400	3839 CHANDLER DR NE	MINNEAPOLIS	MN	55421-4410	15-5477-23MC	MELLETT POINT	961106	0.00	0.00	0.00	0.00	0.00	
PETERSON SHANE DANIEL & JONDELL RAYANNE	15335106310080000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 145, ACRES 0.95	0.95	HILLTOP DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$39,255	\$39,255	1212 LAKESIDE DR	LOLO	MT	59847-9705	15-5477-23MC	MELLETT POINT NO 2	961075	0.00	0.00	0.00	0.00	0.00	
KELSI RICHARD H & LYNDIA JILL	15335106301010000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 130, ACRES 1.12	1.12	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$40,088	\$40,088	6853 S MILLER ST	LITTLETON	CO	80127-2918	15-5477-23MC	MELLETT POINT NO 2	957511	0.00	0.00	0.00	0.00	0.00	
JEHLE ALEXANDER B & STACY	15335106305040000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 029, LOT 29	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$87,900	\$447,500	\$535,400	3109 CUMMINS WAY	MISSOULA	MT	59802-3229	15-5477-23MC	MELLETT POINT	959006	0.00	0.00	0.00	0.00	0.00	
RIELEY MARY TRUST	15335106305050000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 030	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$101,100	\$419,000	\$520,100	1723 EUCLID AVE APT 201	HELENA	MT	59601-1904	15-5477-23MC	MELLETT POINT	959039	0.00	0.00	0.00	0.00	0.00	
HARDY ROBERT E & JANET E LIVING TRUST	15335106302080000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 7A, ACRES 0.75, AMND PLAT OF LTS 6 & 7 ASSR#0000002376	0.00		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$414,500	\$414,500	29873 WESTSIDE DR S	POLSON	MT	59860-7872	15-5477-23MC	MELLETT POINT	959128	0.00	0.00	0.00	0.00	0.00	
TACK BRIAN F & MCCARTER LINDA L	15335106309040000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 133, ACRES 1.25	1.25		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$40,725	\$40,725	914 FOSTER RD	IOWA CITY	IA	52245-1648	15-5477-23MC	MELLETT POINT NO 2	961094	0.00	0.00	0.00	0.00	0.00	
HDR ENTERPRISES LLC	15335106310060000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 143, LOT 143	0.64	HILLTOP DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$37,736	\$37,736	6 SLEEPY HOLLOW RD	CLINTON	MT	59825-9636	15-5477-23MC	MELLETT POINT NO 2	960967	0.00	0.00	0.00	0.00	0.00	
LABAIR ROB & HOLLY	15335106310020000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 141, LOT 141	1.26		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$40,774	\$40,774	6 SLEEPY HOLLOW RD	CLINTON	MT	59825-9636	15-5477-23MC	MELLETT POINT NO 2	960504	0.00	0.00	0.00	0.00	0.00	
JACKSON FAMILY TRUST	15335106401030000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 76	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$182,300	\$307,500	\$489,800	6000 RATTLESNAKE DR	MISSOULA	MT	59802-5204	15-5477-23MC	MELLETT POINT	958951	0.00	0.00	0.00	0.00	0.00	
GARNAAS MARK F & RENEE B GARNAAS	15335106305070000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 032, LOT 32	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$177,400	\$410,000	\$587,400	609 W CRESTLINE DR	MISSOULA	MT	59803-2201	15-5477-23MC	MELLETT POINT	960578	0.00	0.00	0.00	0.00	0.00	
KAMURA RUSSELL L ETAL	15335106305080000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 033, LT 33	0.48		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$283,300	\$348,500	\$631,800	1105 N RUSSELL ST	MISSOULA	MT	59808-1807	15-5477-23MC	MELLETT POINT	961087	0.00	0.00	0.00	0.00	0.00	
SAMPLE REVOCABLE TRUST	15335106407030000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 047, LOT 47	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$237,720	\$419,000	\$656,720	34174 CAMDEN LN	POLSON	MT	59860-7758	15-5477-23MC	MELLETT POINT	961560	0.00	0.00	0.00	0.00	0.00	
THORSRUD MONTANA PROPERTIES, LLC	15335106404060000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 52, ACRES 1.478	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$852,820	\$919,500	\$1,772,320	2265 E CORTE DEL SABIO	TUCSON	AZ	85718-7330	15-5477-23MC	MELLETT POINT	961480	0.00	0.00	0.00	0.00	0.00	
WHIPPLE TODD & ASHLEY	15335106403040000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, LT 65	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$269,975	\$335,625	\$605,600	131 FIRESIDE DR	BOZEMAN	MT	59718-7999	15-5477-23MC	MELLETT POINT	961289	0.00	0.00	0.00	0.00	0.00	
THORSRUD SURVIVOR'S TRUST	15335106407010000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 50, ACRES 1.87	0.00	LANIER LN	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$512,250	\$512,250	2265 E CORTE DEL SABIO	TUCSON	AZ	85718-7330	15-5477-23MC	MELLETT POINT	960870	0.00	0.00	0.00	0.00	0.00	
HOWARD STANLEY J & ELIZABETH N	15335106305030000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 028, LT 28	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$152,730	\$446,000	\$598,730	1805 MAURICE AVE	MISSOULA	MT	59801-5901	15-5477-23MC	MELLETT POINT	960397	0.00	0.00	0.00	0.00	0.00	

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GUESS SCOTT & ANNE	15335106402030000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 70A - 70B, ASSR# 0000002385	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$769,825	\$351,375	\$1,121,200	122 APPLE HOUSE LN	MISSOULA	MT	59802-3331	15-5477-23MC	MELLETT POINT	959269	0.00	0.00	0.00	0.00	0.00	
BOUTELL PETER S & KIM BOUTELL-BLUDORN	15335106303040000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 017, LOT 17	0.00		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$318,750	\$318,750	6581 LATYSON LN NE	BAINBRIDGE IS	WA	98110-4073	15-5477-23MC	MELLETT POINT	957477	0.00	0.00	0.00	0.00	0.00	
RIGG CHARLES G & JEAN K TRUSTEES	15335106305010000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 026, LOT 26	0.75		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$396,600	\$516,500	\$913,100	34634 LINDBURG LN	POLSON	MT	59860-7867	15-5477-23MC	MELLETT POINT	961377	0.00	0.00	0.00	0.00	0.00	
THORSRUD DARCI	15335106407040000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 046, LT 46	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$169,300	\$437,000	\$606,300	628 S 2ND ST W	MISSOULA	MT	59801-1830	15-5477-23MC	MELLETT POINT	961563	0.00	0.00	0.00	0.00	0.00	
MCKENNA JAMES E	15335106307050000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 114	0.82	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$38,618	\$38,618	2914 70TH AVE SE	MERCER ISLAND	WA	98040-2611	15-5477-23MC	MELLETT POINT NO 2	961621	0.00	0.00	0.00	0.00	0.00	
NOVIS DAVID E & BRIDGET L	15335106407050000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 045, LOT 45	0.00	34252 CAMDEN LN	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$15,950	\$391,600	\$407,550	1590 CORNERSTONE DR	MISSOULA	MT	59802-8611	15-5477-23MC	MELLETT POINT	959346	0.00	0.00	0.00	0.00	0.00	
BOUTELL PETER S & KIM BOUTELL-BLUDORN	15335106303030000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 016, LT 16	0.00	29713 WESTSIDE DR N	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$109,990	\$308,625	\$418,615	6581 LATYSON LN NE	BAINBRIDGE IS	WA	98110-4073	15-5477-23MC	MELLETT POINT	957466	0.00	0.00	0.00	0.00	0.00	
ANDERSON MICHAEL W & KELLY	15335106307080000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 109, LOT 109	1.16		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$62,690	\$40,284	\$102,974	5526 CIRCLE DR	FLORENCE	MT	59833-6636	15-5477-23MC	MELLETT POINT NO 2	961392	0.00	0.00	0.00	0.00	0.00	
SCHOENECKER JO SELVIG REVOCABLE TRUST	15335106304110000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 158A, AMND PLAT OF LOTS 153, 157 & 158 ASSR#0000036070	0.77	LINDBURG LN	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$38,373	\$38,373	3054 68TH AVE SE	MERCER ISLAND	WA	98040-2533	15-5477-23MC	MELLETT POINT NO 2	954382	0.00	0.00	0.00	0.00	0.00	
MAXWELL KIMBERLY A LIVING TRUST	15335106303070000	2019	23 N	19 W	06	MELLETT POINT 016, S06, T23 N, R19 W, Lot A1, OF AMND PLT OF TRA OF AMND PLT OF LOTS 20 & 21 ASSR#0000002926	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$150,280	\$313,000	\$463,280	PO BOX 7006	BOZEMAN	MT	59771-7006	15-5477-23MC	MELLETT POINT	961473	0.00	0.00	0.00	0.00	0.00	
MEANS KENT A & LAVAL S	15335106304010000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 044, LOT 154 MELLETT POINT#2 (.50 AC)	0.50	WESTSIDE DR N	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$37,050	\$37,050	3501 DUNCAN DR	MISSOULA	MT	59802-3283	15-5477-23MC	MELLETT POINT NO 2	961304	0.00	0.00	0.00	0.00	0.00	
ANDERSON MICHAEL L & KELLY	15335106307090000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 110, LT 110	0.93	HILLTOP DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$39,157	\$39,157	5526 CIRCLE DR	FLORENCE	MT	59833-6636	15-5477-23MC	MELLETT POINT NO 2	961163	0.00	0.00	0.00	0.00	0.00	
PIERCE KRISTINI P & JOHN	15335106304080000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 155, LOTS 155 & 156 MELLETT POINT #2(.99 AC)	0.99	WESTSIDE DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$8,910	\$39,451	\$48,361	737 LOCUST ST	MISSOULA	MT	59802-3721	15-5477-23MC	MELLETT POINT NO 2	961748	0.00	0.00	0.00	0.00	0.00	
THORSRUD MONTANA PROPERTIES, LLC	15335106404070000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 51, ACRES 0.622	0.00	FINLEY POINT LN	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$24,560	\$346,875	\$371,435	2265 E CORTE DEL SABIO	TUCSON	AZ	85718-7330	15-5477-23MC	MELLETT POINT	961479	0.00	0.00	0.00	0.00	0.00	
TABISH GREGORY P & JENNIFER	15335106302110000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 012, LT 12	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$112,000	\$432,500	\$544,500	3667 MILWAUKEE CT	MISSOULA	MT	59808-5932	15-5477-23MC	MELLETT POINT	961081	0.00	0.00	0.00	0.00	0.00	
PEEPLES CRAIG A & CHRISTINA B TRUST	15335106403030000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 066, MELLETT POINT LT 66 .47AC	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$256,130	\$308,625	\$564,755	29080 FINLEY POINT LN	POLSON	MT	59860-6805	15-5477-23MC	MELLETT POINT	961629	0.00	0.00	0.00	0.00	0.00	
SCHOENECKER ERIC	15335106304090000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 153A, ACRES 0.73, AMND PLAT OF LOTS 153, 157 & 158 ASSR#0000036068	0.73			VAC_R - Vacant Land - Rural	\$0	\$38,177	\$38,177	2122 8TH AVE N APT 501	SEATTLE	WA	98109-2479	15-5477-23MC	MELLETT POINT NO 2	954380	0.00	0.00	0.00	0.00	0.00	
HOCHHALTER HAROLD ETAL	15335106303020000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 15, ASSR#0000003044	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$93,300	\$307,500	\$400,800	5017 ORCHARD AVE	MISSOULA	MT	59803-2040	15-5477-23MC	MELLETT POINT	961604	0.00	0.00	0.00	0.00	0.00	
HAVLOVICK JOSEPH I REV LIVING TRUST	15335106303050000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 018, LOT 18	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$6,330	\$308,625	\$314,955	36023 S SHORE LN	POLSON	MT	59860-7903	15-5477-23MC	MELLETT POINT	960977	0.00	0.00	0.00	0.00	0.00	

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WICKS GARY J & SUSAN D	15335106303080000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 022, ACRES 1.78	1.78		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$269,975	\$278,425	\$548,400	29629 WESTSIDE DR N	POLSON	MT	59860-7869	15-5477-23MC	MELLETT POINT	961630	0.00	0.00	0.00	0.00	0.00	(
HARDY STEPHEN P & ANGELA M	15335106302090000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 008, LOT 8	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$138,200	\$410,000	\$548,200	8685 JACOT LN	MISSOULA	MT	59808-9449	15-5477-23MC	MELLETT POINT	961382	0.00	0.00	0.00	0.00	0.00	(
STARK C MAX & CHARLOTTE M	15335106402020000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 071, LT 71	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$212,000	\$343,500	\$555,500	38475 MOUNTAIN VIEW RD	POLSON	MT	59860-7336	15-5477-23MC	MELLETT POINT	961498	0.00	0.00	0.00	0.00	0.00	(
GUTHRIE WENDELL W &	15335106403020000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 067, LT 67	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$61,100	\$402,400	\$463,500	224A INEZ ST	MISSOULA	MT	59801-2306	15-5477-23MC	MELLETT POINT	960892	0.00	0.00	0.00	0.00	0.00	(
JETTE LORI J & KENT J PRATT	15335106402050000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 069, LOT 69	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$72,560	\$308,625	\$381,185	5940 JOLINDA CT	MISSOULA	MT	59803-2948	15-5477-23MC	MELLETT POINT	961355	0.00	0.00	0.00	0.00	0.00	(
HOLTZ KRISTIN H REVOCABLE TRUST	15335106302120000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 09A, LT A OF AMEND PLAT LTS 9-11	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$533,300	\$483,500	\$1,016,800	2920 AUTUMN WOODS DR	CHASKA	MN	55318-1134	15-5477-23MC	MELLETT POINT	961719	0.00	0.00	0.00	0.00	0.00	(
HICKEL KENNETH E PERSONAL RESIDENCE TRUST	15335106302100000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 09B, LT B OF AMEND PLAT OF LTS 9-11	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$184,700	\$486,500	\$671,200	MICHAEL OLSON	BILLINGS	MT	59102-1778	15-5477-23MC	MELLETT POINT	961013	0.00	0.00	0.00	0.00	0.00	(
SUSOTT RONALD A & WENDY J	15335106403010000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 068, ACRES 0.47	0.46		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$245,300	\$409,500	\$654,800	29104 FINLEY POINT LN	POLSON	MT	59860-7769	15-5477-23MC	MELLETT POINT	961265	0.00	0.00	0.00	0.00	0.00	(
JOHNSTON BERNICE VB & MICHAEL H	15335106403080000	2019	23 N	19 W	06	MELLETT POINT 016, S06, T23 N, R19 W, Lot 061, ASSR# 0000002970	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$155,150	\$350,250	\$505,400	2439 GILBERT AVE	MISSOULA	MT	59802-3403	15-5477-23MC	MELLETT POINT	961523	0.00	0.00	0.00	0.00	0.00	(
BUSEY HENRY W & SARA M	15335106407080000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 042, LOT 42	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$92,350	\$309,750	\$402,100	34215 LANIER LN	POLSON	MT	59860-6819	15-5477-23MC	MELLETT POINT	957820	0.00	0.00	0.00	0.00	0.00	(
IRWIN JANIS M REV LIV TRUST OF 2008	15335106402010000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 72A, AMND PLAT OF LOTS 72 & 73 ASSR#0000002573	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$877,970	\$630,250	\$1,508,220	29882 SMUGGLERS POINT RD	POLSON	MT	59860-7859	15-5477-23MC	MELLETT POINT	961057	0.00	0.00	0.00	0.00	0.00	(
SOHLBERG FAMILY TRUST	15335106401070000	2019	23 N	19 W	06	MELLETT POINT 016, S06, T23 N, R19 W, Lot 74A, AMND PLAT OF LOTS 74 & 79 ASSR#0000002938	0.00	29882 SMUGGLERS POINT RD	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$422,600	\$443,000	\$865,600	5285 ELK RIDGE RD	MISSOULA	MT	59802-5227	15-5477-23MC	MELLETT POINT	961487	0.00	0.00	0.00	0.00	0.00	(
											\$0	\$0	\$0								0.00	0.00	0.00	0.00	0.00	(
KIMMEL ARNOLD E & SHERRIE MARIE	15335106302030000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 003, ACRES 0.49, COS 6799	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$327,300	\$417,500	\$744,800	29963 WESTSIDE DR S	POLSON	MT	59860-7871	15-5477-23MC	MELLETT POINT	961134	0.00	0.00	0.00	0.00	0.00	(
TROXEL FAMILY TRUST	15335106306020000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 034, LOT 34	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$192,900	\$410,000	\$602,900	36254 S SHORE LN	POLSON	MT	59860-7904	15-5477-23MC	MELLETT POINT	961591	0.00	0.00	0.00	0.00	0.00	(
CUNNINGHAM STEVEN & ELIZABETH	15335106303120000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 14A, AMND PLAT OF LOTS 13 & 14 ASSR#00000036143	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$385,425	\$283,875	\$669,300	29737 WESTSIDE DR N	POLSON	MT	59860-7870	15-5477-23MC	MELLETT POINT	954484	0.00	0.00	0.00	0.00	0.00	(
LUNDT KRISTOPHER E & JAMIE L	15335106303010000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 13A, AMND PLAT OF LOTS 13 & 14 ASSR#0000003114	0.00		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$342,375	\$342,375	514 AMERICAS WAY # 6042	BOX ELDER	SD	57719-7600	15-5477-23MC	MELLETT POINT	961682	0.00	0.00	0.00	0.00	0.00	(
BERGSTROM CHRISTY L & DOUGLAS J	15335106308020000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 121, LOT 121	1.47	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$41,803	\$41,803	3620 EDWARD ST NE	SAINT ANTHONY	MN	55418-1553	15-5477-23MC	MELLETT POINT NO 2	961477	0.00	0.00	0.00	0.00	0.00	(
STARK C MAX & CHARLOTTE M	15335106308010000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 120, LT 120	1.62	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$42,538	\$42,538	38475 MOUNTAIN VIEW RD	POLSON	MT	59860-7336	15-5477-23MC	MELLETT POINT NO 2	961497	0.00	0.00	0.00	0.00	0.00	(
KLAUSS JULIE ANN	15335106307010000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 119	0.61	FINLEY POINT LANE	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$37,589	\$37,589	4040 LEESBURG LN APT 74	CINCINNATI	OH	45209-1508	15-5477-23MC	MELLETT POINT NO 2	961101	0.00	0.00	0.00	0.00	0.00	(

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WHALEY JAMES H & LISA R	15335106307100000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 117, LT 117	0.81		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$38,569	\$38,569	530 N ORANGE ST	MISSOULA	MT	59802-4129	15-5477-23MC	MELLETT POINT NO 2	961529	0.00	0.00	0.00	0.00	0.00	(
HINTZMAN SCOTT	15335106307020000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 118, LOT 118	0.51	GEORGIA RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$37,099	\$37,099	4949 CLINTON ST	BUFFALO	NY	14224-1737	15-5477-23MC	MELLETT POINT NO 2	961018	0.00	0.00	0.00	0.00	0.00	(
MCCRUDDEN DWAYNE D & JULIE R	15335106307030000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 116, LOT 116	0.73		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$35,510	\$38,177	\$73,687	2190 BUTTREY LN	MISSOULA	MT	59802-9503	15-5477-23MC	MELLETT POINT NO 2	961655	0.00	0.00	0.00	0.00	0.00	(
COLE JUDITH J FAMILY TRUST	15335106307040000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 115, ACRES 0.72	0.72			VAC_R - Vacant Land - Rural	\$0	\$38,128	\$38,128	1160 MANOR DR	RENO	NV	89509-2525	15-5477-23MC	MELLETT POINT NO 2	961360	0.00	0.00	0.00	0.00	0.00	(
ALLEN FREDERICK C JR ETAL	15335106406050000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 096, LOT 96 (.53 AC)	0.53			VAC_R - Vacant Land - Rural	\$0	\$37,197	\$37,197	880 W 18TH ST	SAN PEDRO	CA	90731-4604	15-5477-23MC	MELLETT POINT NO 2	961767	0.00	0.00	0.00	0.00	0.00	(
							0.00				\$0	\$0	\$0								0.00	0.00	0.00	0.00	0.00	(
							0.00				\$0	\$0	\$0								0.00	0.00	0.00	0.00	0.00	(
BORLANG ROGER & SHARON	15335107401050000	2019	23 N	19 W	07	S07, T23 N, R19 W, SOUTH 45.5' OF H-391	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$5,120	\$342,500	\$347,620	PO BOX 103	GILDFORD	MT	59525-0103	15-5477-23MC		960253	0.00	0.00	0.00	0.00	0.00	(
TURNER PATRICIA A	15335107401030000	2019	23 N	19 W	07	S07, T23 N, R19 W, TR IN GOVT LOT 8	0.33		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$134,290	\$474,617	\$608,907	PO BOX 1542	POLSON	MT	59860-1542	15-5477-23MC		961598	0.00	0.00	0.00	0.00	0.00	(
LAKE COUNTY	15335107403110000	2019	23 N	19 W	07	SKIDOO VILLA ESTATES, S07, T23 N, R19 W, ACRES 0.587, PARK	0.59			EP - Exempt Property	\$0	\$37,476	\$37,476	106 4TH AVE E	POLSON	MT	59860-2125	15-5477-23MC	SKIDOO VILLA ESTATES	960157	0.00	0.00	0.00	0.00	0.00	(
COOK KEESE FAMILY LLC	15335107402120000	2019	23 N	19 W	07	ODD FELLOWS VILLA, S07, T23 N, R19 W, Lot 001, LT 1	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$177,800	\$404,000	\$581,800	26750 EASTVALE RD	PALOS VERDES PENINSULA	CA	90274-4005	15-5477-23MC	ODD FELLOWS VILLA	958345	0.00	0.00	0.00	0.00	0.00	(
FLINK EDGAR F & RITA J	15335107403070000	2019	23 N	19 W	07	SKIDOO VILLA ESTATES, S07, T23 N, R19 W, Lot 001, LT 1	0.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$190,700	\$388,000	\$578,700	4785 SPURGIN RD	MISSOULA	MT	59804-4511	15-5477-23MC	SKIDOO VILLA ESTATES	958962	0.00	0.00	0.00	0.00	0.00	(
SOHLBERG KRISTEN	15335106401040000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 106	0.88	PEACHTREE DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$38,912	\$38,912	18 MARTHAS CT	MISSOULA	MT	59803-1056	15-5477-23MC	MELLETT POINT NO 2	961385	0.00	0.00	0.00	0.00	0.00	(
SOHLBERG KRISTEN	15335106401080000	2019	23 N	19 W	06	MELLETT POINT NO 2, S06, T23 N, R19 W, Lot 107	0.95	PEACHTREE DR	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$39,255	\$39,255	18 MARTHAS CT	MISSOULA	MT	59803-1056	15-5477-23MC	MELLETT POINT NO 2	1566272	0.00	0.00	0.00	0.00	0.00	(
BULL ISLAND MEMORIES LLC	15335011101160000	2019	23 N	20 W	11	IDYLVILD SUBD A, S11, T23 N, R20 W, Lot 70A, ACRES 1.07, AMND PLT	1.08	BULL ISLAND	POLSON, MT 59860	IMP_R - Improved Property - Rural	\$204,630	\$422,070	\$626,700	PO BOX 5123	MISSOULA	MT	59806-5123	15-1477-23	IDYLVILD SUBD A	1496047	0.00	0.00	0.00	0.00	0.00	(
BULL ISLAND RETREAT LLC	15335011101170000	2019	23 N	20 W	11	IDYLVILD SUBD A, S11, T23 N, R20 W, Lot 69, ACRES 0.38, AMND PLT	0.38		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$155,540	\$219,560	\$375,100	201 UNIVERSITY AVE	MISSOULA	MT	59801-4351	15-1477-23	IDYLVILD SUBD A	964185	0.00	0.00	0.00	0.00	0.00	(
BULL ISLAND LLC	15335011101180000	2019	23 N	20 W	11	IDYLVILD SUBD A, S11, T23 N, R20 W, Lot 68A, ACRES 0.39, AMND PLT	0.39	BULL ISLAND	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$141,680	\$141,680	201 UNIVERSITY AVE	MISSOULA	MT	59801-4351	15-1477-23	IDYLVILD SUBD A	1496048	0.00	0.00	0.00	0.00	0.00	(
BULL ISLAND LLC	15335011101190000	2019	23 N	20 W	11	IDYLVILD SUBD A, S11, T23 N, R20 W, Lot 68B, ACRES 0.17, AMND PLT	0.17	BULL ISLAND RD	POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$226,890	\$226,890	201 UNIVERSITY AVE	MISSOULA	MT	59801-4351	15-1477-23	IDYLVILD SUBD A	1493042	0.00	0.00	0.00	0.00	0.00	(
KENNEDY HOWARD & LOIS TRUSTEES	15335011101210000	2019	23 N	20 W	11	IDYLVILD SUBD A, S11, T23 N, R20 W, POR OF LOT B	1.00		POLSON, MT 59860	IMP_R - Improved Property - Rural	\$147,900	\$237,600	\$385,500	400 N JEFFERSON ST APT 47	WICKENBURG	AZ	85390-3279	15-1477-23	IDYLVILD SUBD A	964272	0.00	0.00	0.00	0.00	0.00	(
DE MAROIS ROBERT E & JUDITH E	15335106404020000	2019	23 N	19 W	06	MELLETT POINT, S06, T23 N, R19 W, Lot 058	0.00		POLSON, MT 59860	VAC_R - Vacant Land - Rural	\$0	\$426,500	\$426,500	6 LAGUNA POINT RD	CHICO	CA	95928-3933	15-5477-23MC	MELLETT POINT	959246	0.00	0.00	0.00	0.00	0.00	(

Conservation Easements

Record Count: 1

Easement Holder	Acres	Easement Date	Deed
Montana Land Reliance	67.10	12/16/1998	Microfilm 395368

Public Land

Record Count: 7

Owner	Acres
County Government	0.61
County Government	3.19
County Government	0.39
County Government	3.38
County Government	2.53
County Government	1.45
County Government	0.48

Groundwater Information Center Wells

Record Count: 56

Site Name	GWIC ID	Use Type	Site Type	Date Completed	Depth	Water Level	Depth Water Enters	Drill Method	Driller	Township	Range	Section	Subsection	Subdivision	Block	Lot	County	Latitude	Longitude	Lat/Lon Datum	Location Method
IRWIN STEPHEN AND J.	77512		WELL	3/19/1984	180	62	41	FORWARD ROTARY	CASTLIO DRILLING	23N	19W		6 DDCA	MELOTT POINT		73	LAKE	47.7786	-114.0733	NAD27	NAV-GPS
HEAD FRANK AND MARY	77515		WELL	4/20/1971	126	10	126	CHURN	CAMP WELL DRILLING	23N	19W		7 CADB	FINLEY POINT		6	LAKE	47.7663	-114.0819	NAD27	NAV-GPS
CANNON RICHARD & M.	77517		WELL	3/29/1985	403	98	323	AIR ROTARY	LIBERTY DRILLING & PUMP CO	23N	19W		7 BCC	BORCHERS OF FINLEY POINT		GOV 3	LAKE	47.7697	-114.0891	NAD27	UNKNOWN
LAVOIE EUGENE E.	77519		WELL	6/24/1983	335	10	0	FORWARD ROTARY	JEROMES DRILLING CO	23N	19W		7 DCBB				LAKE	47.7644	-114.0805	NAD27	MAP
AMRINE, ROBERT Y. SALLY H. AND BRUCE R.	77520		WELL	11/1/1988	324	26	284	AIR ROTARY	LIBERTY DRILLING & PUMP CO	23N	19W		7 CABB	FRIENDSHIP VILLA		GOV 2	LAKE	47.7686	-114.0847	NAD27	MAP
FARNUM J. BRUCE	77521		WELL	10/22/1982	402	34	0	FORWARD ROTARY	CASTLIO DRILLING	23N	19W		7 CAA	FRIENDSHIP VILLA		4	LAKE	47.7683	-114.0805	NAD27	UNKNOWN
KOHLER MARGARET L.	77523		WELL	2/13/1979	326	4	281	AIR ROTARY	LIBERTY DRILLING & PUMP CO	23N	19W		7 CAAD				LAKE	47.7677	-114.0805	NAD27	UNKNOWN
ROTH URBAN	77525		WELL	4/28/1982	235	60	0	FORWARD ROTARY	O.K.	23N	19W		7 DBDC	SKIDOO VILLA SITES		5-6	LAKE	47.7658	-114.0763	NAD27	MAP
TROXEL GEORGE AND LONG HOWARD	194519		WELL	10/18/1999	415	10	415	ROTARY	CASTLIO DRILLING	23N	19W		6	MELOTT PT		34	LAKE	47.7814	-114.0806	NAD27	MAP
KEAST MIKE AND KIM	241970		WELL	3/11/2008	400	27	360	ROTARY	ALLWEST DRILLING INC	23N	19W		7 CA				LAKE	47.7670	-114.0831	NAD27	TRS-SEC
STEVENSON EVELYN	703355		WELL	5/6/1977	466	123	0	AIR ROTARY	D AND N DRILLING	23N	19W		7 BAAA				LAKE	47.7766	-114.0813	NAD27	UNKNOWN
PURCELL MARY DAWN	77507		WELL	3/28/1987	230	83	190	FORWARD ROTARY	BRAZILL DRILLING	23N	19W		6 CA	MELLETT POINT #1		28	LAKE	47.7824	-114.0843	NAD83	TRS-SEC
DAVIES L D AND M R	77508		WELL	5/11/1976	386	15	0	AIR ROTARY	LIBERTY DRILLING & PUMP CO	23N	19W		6 CDB				LAKE	47.7798	-114.0856	NAD83	TRS-SEC
MAXWELL LOWELL & W.	77509		WELL	5/10/1982	441	49	441	AIR ROTARY	LIBERTY DRILLING & PUMP CO	23N	19W		6 DB	MELLETT POINT		54	LAKE	47.7824	-114.0791	NAD83	TRS-SEC
PURCELL JIM	77510		WELL	4/1/1987	445	30	200	FORWARD ROTARY	BRAZILL DRILLING	23N	19W		6 DB	MELLETT POINT #1		41	LAKE	47.7824	-114.0791	NAD83	TRS-SEC
GOLLEHON PAUL	77511		WELL	5/5/1978	440	175	0	FORWARD ROTARY	ANDERSON DRILLING	23N	19W		6 DC	MELLETT POINT #2	1	132	LAKE	47.7789	-114.0791	NAD83	TRS-SEC
CRERAR DAVID	77513		WELL	4/14/1981	266	6	206	FORWARD ROTARY	CAMP WELL DRILLING	23N	19W		7			6	LAKE	47.7694	-114.0816	NAD83	TRS-SEC
WARD IRVINE C.	77514		WELL	7/31/1973	140	11	140	FORWARD ROTARY	CAMP WELL DRILLING	23N	19W		7			PART OF 6	LAKE	47.7694	-114.0816	NAD83	TRS-SEC
THIEME FRED E	77516		WELL	5/22/1967	199	5	0	CHURN	CAMP WELL DRILLING	23N	19W		7 DCB			8	LAKE	47.7645	-114.0803	NAD83	TRS-SEC
WOODAHL ROBERT L AND ARLENE R	77518		WELL	12/10/1970	180	20	0	CABLE	LIBERTY DRILLING & PUMP CO	23N	19W		7 BD			GOV'T1-2-7	LAKE	47.7713	-114.0842	NAD83	TRS-SEC
FARNUM FRED/VINCENT	77522		WELL	3/5/1967	390	27	0	CABLE & AIR ROTARY	LIBERTY DRILLING & PUMP CO	23N	19W		7 CAA	FRIENDSHIP VILLA		4	LAKE	47.7684	-114.0829	NAD83	TRS-SEC
GARY SAMUEL	77526		WELL	7/13/1972	331	59	0	AIR ROTARY	LIBERTY DRILLING & PUMP CO	23N	19W		7 DD			4-5-7	LAKE	47.7635	-114.0738	NAD83	TRS-SEC
REBER, J.B. AND M.E.	77527		WELL	8/20/1971	294	47	0	AIR ROTARY	LIBERTY DRILLING & PUMP CO	23N	19W		7 DD				LAKE	47.7635	-114.0738	NAD83	TRS-SEC
VALETT BRYAN/ GOOD VELMA E	77528		WELL	8/19/1975	116	39	70	AIR ROTARY	LIBERTY DRILLING & PUMP CO	23N	19W		7 DDD				LAKE	47.7625	-114.0725	NAD83	TRS-SEC

Site Name	GWIC ID	Use Type	Site Type	Date Completed	Depth	Water Level	Depth Water Enters	Drill Method	Driller	Township	Range	Section	Subsection	Subdivision	Block	Lot	County	Latitude	Longitude	Lat/Lon Datum	Location Method
TURNER DON	143247		WELL	5/11/1994	283	8	0	ROTARY	CASTLIO DRILLING	23N	19W	7				5B	LAKE	47.7694	-114.0816	NAD83	TRS-SEC
JALLITE NEIL	151779		WELL	7/5/1988	500	185	0		ROBERTS	23N	19W	7		FINLEY POINT		138	LAKE	47.7694	-114.0816	NAD83	TRS-SEC
JOLLITE NEIL	151799		WELL	7/5/1988	505	185	0	UNKNOWN	ROBERTS	23N	19W	7		FINLEY POINT		138	LAKE	47.7694	-114.0816	NAD83	TRS-SEC
HERN ARDELL AND POMEROY LISSA	152788		WELL	6/20/1995	305	11	264	ROTARY	LOCHNER	23N	19W	7	CAB	FRIENDSHIPP VILLA		1	LAKE	47.7684	-114.0855	NAD83	TRS-SEC
MILES DONALD R & PAULY R	146875		WELL	7/31/1994	463	108	393	ROTARY	LIBERTY DRILLING & PUMP CO	23N	19W	6	DA	MELLETT POINT #2		89	LAKE	47.7824	-114.0739	NAD83	TRS-SEC
THORSRUD ED	141372		WELL	5/14/1986	120	18	0	FORWARD ROTARY	CASTLIO DRILLING	23N	19W	6	DBDA	MELLETT POINT GVT. LOT 3		46	LAKE	47.7824	-114.0766	NAD83	MAP
GRONEBERG, THOMAS T & JENNIFER L	148605		WELL	7/5/1988	505	185	0	ROTARY	CASTLIO DRILLING	23N	19W	6	DC	MELLETT POINT NO 2		138	LAKE	47.7789	-114.0791	NAD83	TRS-SEC
MCCORMICK, BILL AND BARBARA	148606		WELL	9/21/1994	210	18	0	ROTARY	CASTLIO DRILLING	23N	19W	7	BD	FINLEY POINT VILLA			LAKE	47.7713	-114.0842	NAD83	TRS-SEC
METZ MONDELL	150667		WELL	11/22/1994	240	28	200	ROTARY	CASTLIO DRILLING	23N	19W	7	BAB	FINLEY PT VILLA	2	1	LAKE	47.7762	-114.0855	NAD83	TRS-SEC
BISHOP LAURRY	168825		WELL	6/24/1998	115	55	95	ROTARY	CASTLIO DRILLING	23N	19W	7		FINLEY POINT VILL	5	4	LAKE	47.7694	-114.0816	NAD83	TRS-SEC
HARDY BOB	200476		WELL	9/25/2001	158	16	150	ROTARY	CHAMBERS DRILLING COMPANY	23N	19W	6	CD	MELLETT POINT SUBDIVISION		6-7	LAKE	47.7789	-114.0843	NAD83	TRS-SEC
STOVERUD, DALE AND LINDA	210132		WELL	3/22/2004	200	73	180	ROTARY	OKEEFE DRILLING CO	23N	19W	6	C	MELLETT POINT		63	LAKE	47.7806	-114.0869	NAD83	TRS-SEC
I.O.O.F. MISSION LODGE C/O	209521		WELL	3/1/2004	128	43	108	ROTARY	WESTERN WATER WORKS INC	23N	19W	7	DC				LAKE	47.7635	-114.0790	NAD83	TRS-SEC
TACK, BRIAN	216454		WELL	1/26/2005	705	170	640	ROTARY	MAIN HARBOR PUMPS & WELL DRILLING	23N	19W	6	CD				LAKE	47.7789	-114.0843	NAD83	TRS-SEC
BENTHAM, RANDY	227260		WELL	6/23/2006	605	194	540	ROTARY	MAIN HARBOR PUMPS & WELL DRILLING	23N	19W	6	CD				LAKE	47.7786	-114.0809	NAD83	MAP
SCHOENECKER, JO	228915		WELL	9/21/2006	465	86	415	ROTARY	MAIN HARBOR PUMPS & WELL DRILLING	23N	19W	6	C	MELLETT POINT NO. 2		159	LAKE	47.7808	-114.0846	NAD83	MAP
SHATIZADAH DOREEN	250492		WELL	5/29/2009	400	12	360	ROTARY	ALLWEST DRILLING INC	23N	19W	6	CA				LAKE	47.7824	-114.0843	NAD83	TRS-SEC
PEEPLER CRAIG & TINA	250622		WELL	5/26/2009	480	99	450	ROTARY	MAIN HARBOR PUMPS AND WELL DRILLING	23N	19W	6	DDBA	MELLETT POINT NO. 1		66	LAKE	47.7801	-114.0729	NAD83	MAP
MITCHELL DENNIS	219916		WELL	6/21/2005	295	76	245	ROTARY	CHAMBERS DRILLING COMPANY	23N	19W	6	C	MELOTT POINT # 2		154	LAKE	47.7806	-114.0869	NAD83	TRS-SEC
STEFFES, DIANA	225011		WELL	5/11/2006	325	7	260	ROTARY	MAIN HARBOR PUMPS & WELL DRILLING	23N	19W	7	CA				LAKE	47.7674	-114.0842	NAD83	TRS-SEC
CABALLERO CATHLEEN	247735		WELL	10/20/2008	320	74	280	ROTARY	ALLWEST DRILLING INC	23N	19W	6	DA				LAKE	47.7824	-114.0739	NAD83	TRS-SEC
ALTMAN CINDY DURAND	254669		WELL	9/7/2002	583	189	563		CASTLIO DRILLING	23N	19W	6	DCC	MELLETT POINT NO. 2		141	LAKE	47.7777	-114.0798	NAD83	MAP
FOSTER ROD	254676		WELL	5/19/2000	600	65	520	ROTARY	CASTLIO DRILLING	23N	19W	6	CACD	MELLETT POINT #2		160	LAKE	47.7808	-114.0840	NAD83	MAP
RATZBURG DAYLE OR DOREEN	258987		WELL	10/22/2010	405	40	385	ROTARY	ACE DRILLING CO.	23N	19W	7	DC				LAKE	47.7635	-114.0790	NAD83	TRS-SEC
MCLAUGHLIN, WILLIAM	268468		WELL	10/2/2012	345	60	305	ROTARY	ALLWEST DRILLING INC	23N	19W	7	CA	FINLEY POINT VILLA SITE	6	3	LAKE	47.7674	-114.0842	NAD83	TRS-SEC
ANDERSON, MIKE OR KELLY	285238		WELL	9/17/2015	580	160	560	ROTARY	ACE DRILLING	23N	19W	6	DC			110	LAKE	47.7789	-114.0791	NAD83	TRS-SEC
NOONAN, DON/ROSHELEAU, KYLE	278055		WELL	8/28/2006	295	78	200	ROTARY	CHAMBERS DRILLING COMPANY	23N	19W	6	CB	MELLETT POINT		A1	LAKE	47.7824	-114.0895	NAD83	TRS-SEC
VALETT FAMILY LIMITED PARTNERSHIP	294080		WELL	9/7/2017	245	76	205	ROTARY	ALLWEST DRILLING INC	23N	19W	7	DD				LAKE	47.7635	-114.0738	NAD83	TRS-SEC

Site Name	GWIC ID	Use Type	Site Type	Date Completed	Depth	Water Level	Depth Water Enters	Drill Method	Driller	Township	Range	Section	Subsection	Subdivision	Block	Lot	County	Latitude	Longitude	Lat/Lon Datum	Location Method
LITTELL STEPHEN W., NEWTON SARAH AND DAVID	297833		WELL	7/24/2018	160	62	120	ROTARY	ALLWEST DRILLING INC	23N	19W		7 DD				LAKE	47.7635	-114.0738	NAD83	TRS-SEC
TAYLOR, BOYD	278002		WELL	5/7/2014	200	30	180		OKEEFE DRILLING CO	23N	19W		7 DB	SKIDOO VILLA ESTATES		003	LAKE	47.7664	-114.0764	WGS84	NAV-GPS
AKSHUN & AKSHUN, INC.	298643		WELL	9/12/2018	441	45	421	DR	OKEEFE DRILLING CO	23N	19W		7 DC				LAKE	47.7636	-114.0803	WGS84	NAV-GPS
NOVIS, DAVID	288673		WELL	7/15/2016	350	30	320	HOLLOWSTEM AUGER DR	OKEEFE DRILLING CO	23N	19W		6 DB	MELLETT POINT		45	LAKE	47.7817	-114.0773	WGS84	NAV-GPS

APPENDIX C

WELL LOGS

WELL LOCATIONS AND NEIGHBORING PROPERTIES MAP

WELL LOCATIONS WITH THOA SEPTIC SYSTEMS AND MIXING ZONES

REC GW FLOW AND GRADIENT DIRECTION, AND K VALUES

MONTANA WELL LOG REPORT

Other Options

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

[Return to menu](#)
[Plot this site in State Library Digital Atlas](#)
[Plot this site in Google Maps](#)
[View scanned well log_\(7/8/2009 2:38:55 PM\)](#)

Site Name: WOODAHL ROBERT L AND ARLENE R
GWIC Id: 77518

Section 7: Well Test Data

Total Depth: 180
 Static Water Level: 20
 Water Temperature:

Section 1: Well Owner(s)

1) WOODAHL, ROBERT L. AND ARLENE R. (MAIL)
 N/A
 HELENA MT N/A [12/10/1970]

Air Test *

25 gpm with drill stem set at feet for 2 hours.
 Time of recovery hours.
 Recovery water level feet.
 Pumping water level 94 feet.

Section 2: Location

Township	Range	Section	Quarter Sections
23N	19W	7	SE¼ NW¼
County		Geocode	

LAKE

Latitude	Longitude	Geomethod	Datum
47.771329	-114.084181	TRS-SEC	NAD83
Ground Surface Altitude	Ground Surface Method	Datum	Date
2952			
Addition	Block	Lot	
		GOV'T1-2-7	

* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.

Section 3: Proposed Use of Water

DOMESTIC (1)

Section 8: Remarks

Section 4: Type of Work

Drilling Method: CABLE
 Status: NEW WELL

Section 9: Well Log

Geologic Source

400MCRB - MIDDLE BELT CARBONATE

Section 5: Well Completion Date

Date well completed: Thursday, December 10, 1970

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	40.2	6				

There are no completion records assigned to this well.

Annular Space (Seal/Grout/Packer)

There are no annular space records assigned to this well.

From	To	Description
0	0.5	TOPSOIL
0.5	10	TAN CLAY- ROCK AND BOULDERS.
10	53	GRAY ROCK
53	54	TAN AND BROWN ROCK
54	65	DARK GRAY ROCK
65	75	GRAY-GREEN ROCK
75	77	TAN AND BROWN ROCK
77	91	DARK GRAY ROCK
91	116	TAN-GREEN ROCK
116	117	TAN AND BROWN ROCK-IN ALTERNATE LAYERS.SEEPS
117	137	TAN-GREEN ROCK
137	142	TAN AND BROWN ROCK IN ALTERNATE LAYERS.SEEPS
142	150	BROKEN TAN & BROWN ROCK
150	153	TAN AND BROWN ROCK
153	157	BROKEN TAN AND BROWN ROCK

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:
Company: LIBERTY DRILLING & PUMP CO
License No: WWC-52
Date Completed: 12/10/1970

Site Name: WOODAHL ROBERT L AND ARLENE R		
GWIC Id: 77518		
Additional Lithology Records		
From	To	Description
157	180	TAN AND BROWN ROCK

MONTANA WELL LOG REPORT

Other Options

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

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Site Name: TURNER DON
GWIC Id: 143247

Section 7: Well Test Data

Total Depth: 283
 Static Water Level: 8
 Water Temperature:

Section 1: Well Owner(s)

1) TURNER, DON (MAIL)
 908 E GRIFFIN DR
 BOZEMAN MT 59715 [05/11/1994]

Air Test *

10 gpm with drill stem set at feet for 2.5 hours.
 Time of recovery hours.
 Recovery water level feet.
 Pumping water level 210 feet.

Section 2: Location

Township	Range	Section	Quarter Sections
23N	19W	7	
County		Geocode	

Latitude	Longitude	Geomethod	Datum
47.769364	-114.08158	TRS-SEC	NAD83
Ground Surface Altitude	Ground Surface Method	Datum	Date

* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.

Addition	Block	Lot
		5B

Section 8: Remarks

Section 3: Proposed Use of Water

DOMESTIC (1)

Section 9: Well Log

Geologic Source

400MCRB - MIDDLE BELT CARBONATE

Section 4: Type of Work

Drilling Method: ROTARY
 Status: NEW WELL

From	To	Description
0	1	BLACK DIRT
1	23	GRAY SILTY CLAY & WATER
23	63	SAND & SILTY WATER
63	97	SAND & WATER
97	107	SAND & WATER
107	164	SAND & WATER
164	187	BROKEN GREENISH GRAY ROCK
187	193	HARD GREEN & GRAY ROCK
193	211	HARD GRAY ROCK
211	216	MEDIUM HARD GRAY ROCK W/SEAMS OF WHITE ROCK
216	283	HARD FRACTURED GRAY ROCK W/SEEPS OF WATER

Section 5: Well Completion Date

Date well completed: Wednesday, May 11, 1994

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	191	6				STEEL
163	183	4				PVC

There are no completion records assigned to this well.

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	23	BENTONITE	

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:
Company: CASTLIO DRILLING
License No: WWC-46
Date Completed: 5/11/1994

WELL LOG REPORT

File No. _____

1. WELL OWNER
Name Laurry Bishop

2. CURRENT MAILING ADDRESS
781 Finley Point Lane
Polson, MT. 59860

3. WELL LOCATION
Township 23 ¹/₄ Range 19 ¹/₄ Section 7
Gov'n't Lot _____, or Lot 4, Block 5
Subdivision Name Finley Point Villa Sites
Tract Number _____
Latitude _____ Longitude _____

4. PROPOSED USE: Domestic Stock Irrigation
Other specify _____

5. TYPE OF WORK:
New well Method. Dug Bored
Deepened Cable Driven
Reconditioned Rotary Jetted

6. DIMENSIONS: Diameter of Hole
Dia. 10 in. from 0 ft to 20 ft
Dia. 6 in. from 20 ft to 115 ft
Dia. _____ in. from _____ ft to _____ ft.

7. CONSTRUCTION DETAILS:
Casing, Steel Dia. _____ in. from _____ ft. to _____ ft.
Threaded Welded Dia. 6 in. from +2 ft to 78 ft
Type A53-B Wall Thickness .250
Casing, Plastic Dia. _____ in. from _____ ft. to _____ ft.
Threaded Welded Dia. 4 in. from 75 ft. to 115 ft.
PERFORATIONS: Yes No
Type of perforator used Factory
Size of perforations .020 in. by continuous in
_____ perforations from 95 ft. to 115 ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
SCREENS: Yes No
Manufacture's Name _____
Type _____ Model No _____
Dia. _____ Slot size _____ from _____ ft to _____ ft.
Dia. _____ Slot size _____ from _____ ft. to _____ ft.
GRAVEL PACKED: Yes No Size of gravel _____
Gravel placed from _____ ft. to _____ ft.
GROUTED: To what depth? 20 ft.
Material used in grouting Bentonite

8. WELL HEAD COMPLETION:
Pitless Adapter Yes No

9. WELL TEST DATA
The information requested in this section is required for all wells. All depth measurements must be from the top of the well casing. All wells under 100 gpm must be tested for a minimum of one hour and provide the following information.

a) Air Pump _____ Bailer _____
b) Static water level immediately before testing 55 ft. If flowing, closed-in pressure _____ psi _____ gpm
c) Pumping level after one hour 80 ft
d) Recovery level 55 ft. Time of recovery 1 min./hrs.
e) Pumping rate 50 gpm.
_____ must be tested for a period of _____

conducted continuously at a constant discharge at least as great as the intended appropriation. In addition to the above information, water level data shall be collected and recorded on the Department's "Aquifer Test Data" form.
NOTE: All wells shall be equipped with an access port 1/2 inch minimum or a pressure gauge that will indicate the shut-in pressure of a flowing well. Removable caps are acceptable as access ports

10. PUMPING TEST DATA
a) Static level immediately before testing _____ ft.
b) Depth at which pump is set for test _____ ft
c) Pumping rate _____ gpm.
d) Maximum drawdown _____ ft.
e) Duration of test: pumping time _____ hrs/min
recovery time _____ hrs/min
f) Recovery level _____ ft
g) Duration of time to recovery level _____ hrs.

11. PUMP INSTALLATION INFORMATION
Installation depth _____
Actual pumping rate _____
Manufacturer's name _____
Type _____ Model No _____ H P _____

12. WAS WELL PLUGGED OR ABANDONED? Yes No
If yes, how? _____

13. WELL LOG		Formation
Depth (ft.)		
From	To	
0	13	Tan clay and gravel.
13	78	Soft broken brown rock.
78	110	Med. hard gray rock.
110	115	Fractured brown and grey rock and water.

ADDITIONAL SHEETS ATTACHED

14. YELLOWSTONE CLOSURE AREA: WATER TEMPERATURE _____

15. DATE COMPLETED 6-24-98

16. DRILLER/CONTRACTOR'S CERTIFICATION
This well was drilled under my jurisdiction and this report is true to the best of my knowledge.
Date 6-29-98
Castlio Drilling Co., Inc.
Firm Name _____
P.O. Box 159 Polson, MT. 59860
Address _____

MONTANA WELL LOG REPORT

Other Options

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Site Name: METZ MONDELL
GWIC Id: 150667
DNRC Water Right: 93080

Section 1: Well Owner(s)
 1) METZ, MONDELL (MAIL)
 FINLEY PT
 POLSON MT 59860 [11/22/1994]

Section 2: Location

Township	Range	Section	Quarter Sections
23N	19W	7	NW¼ NE¼ NW¼
County		Geocode	

Latitude	Longitude	Geomethod	Datum
47.77624	-114.085482	TRS-SEC	NAD83
Ground Surface Altitude	Ground Surface Method	Datum	Date

Addition	Block	Lot
FINLEY PT VILLA	2	1

Section 3: Proposed Use of Water
 DOMESTIC (1)

Section 4: Type of Work
 Drilling Method: ROTARY
 Status: NEW WELL

Section 5: Well Completion Date
 Date well completed: Tuesday, November 22, 1994

Section 6: Well Construction Details
 There are no borehole dimensions assigned to this well.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-1.5	21	6				STEEL
10	240	4				PVC

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
200	240	4			.02IN FACTORY

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	19.5	BENTONITE	

Section 7: Well Test Data

Total Depth: 240
 Static Water Level: 28
 Water Temperature:

Air Test *

25 gpm with drill stem set at feet for 1.5 hours.
 Time of recovery hours.
 Recovery water level feet.
 Pumping water level 150 feet.

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Section 8: Remarks

Section 9: Well Log

Geologic Source
 400MCRB - MIDDLE BELT CARBONATE

From	To	Description
0	2	CLAY
2	50	HARD GRAY ROCK
50	56	FIRM BRONW ROCK
56	144	MEDIUM HARD DARY GRAY ROCK
144	153	HARD GRAY AND BROWN ROCK
153	163	MEDIUM HARD FRACTURED BROWNISH GREEN ROCK (1 GPM)
163	224	MEDIUM HARD GRAY AND GREEN AND BROWN ROCK
224	240	MEDIUM HARD BROKEN BROWN ROCK AND WATER

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:
Company: CASTLIO DRILLING
License No: WWC-46
Date Completed: 11/22/1994

MONTANA WELL LOG REPORT**Other Options**

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

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Site Name: MCLAUGHLIN, WILLIAM
GWIC Id: 268468

Section 1: Well Owner(s)
 1) MCLAUGHLIN, WILLIAM (MAIL)
 34819 SNOWBERRY LANE
 POLSON MT. 59860 [10/02/2012]

Section 2: Location

Township	Range	Section	Quarter Sections	Geocode
23N	19W	7	NE¼ SW¼	
County				

LAKE

Latitude	Longitude	Geomethod	Datum
47.767399116	-114.0841814475	TRS-SEC	NAD83
Ground Surface Altitude	Ground Surface Method	Datum	Date

Addition
 FINLEY POINT VILLA SITE

Block **Lot**
 6 3

Section 3: Proposed Use of Water

DOMESTIC (1)
 IRRIGATION (2)

Section 4: Type of Work

Drilling Method: ROTARY
 Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Tuesday, October 2, 2012

Section 6: Well Construction Details**Borehole dimensions**

From	To	Diameter
0	345	6

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	43	6	0.25		WELDED	A53B STEEL
25	345	4		160.0	SOLVENT WELD	PVC-SDR 21

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
305	345	4	80	1/8X6	SAW SLOTS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	43	BENTONITE	Y

Section 7: Well Test Data

Total Depth: 345
 Static Water Level: 60
 Water Temperature:

Air Test *

25 gpm with drill stem set at 340 feet for 1 hours.
 Time of recovery 0.9 hours.
 Recovery water level 60 feet.
 Pumping water level feet.

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Section 8: Remarks**Section 9: Well Log****Geologic Source**

Unassigned

From	To	Description
0	12	SOFT TAN ROCK
12	68	MEDIUM HARD GREEN AND BROWN ROCK
68	115	MEDIUM HARD BLACK AND BROWN ROCK
115	121	FRACT. BLACK AND BROWN ROCK WITH WATER 5 GPM
121	241	MEDIUM HARD BLACK AND BROWN ROCK
241	295	MEDIUM HARD GRAY AND BROWN ROCK
295	340	FRACT. GRAY AND BROWN ROCK WITH WATER 20 GPM
340	345	MEDIUM HARD GRAY AND BROWN ROCK

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name: BRAD FORMAN
Company: ALLWEST DRILLING INC
License No: WWC-571
Date Completed: 10/2/2012

MONTANA WELL LOG REPORT

Other Options

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Site Name: MCCORMICK, BILL AND BARBARA
GWIC Id: 148606
DNRC Water Right: 94427

Section 7: Well Test Data

Total Depth: 210
 Static Water Level: 18
 Water Temperature:

Section 1: Well Owner(s)

1) MCCORMICK, BILL AND BARBARA (MAIL)
 29 SNOWBERRY LN FINELY PT RT
 POLSON MT 59860 [09/21/1994]

Air Test *

40 gpm with drill stem set at feet for 1.5 hours.
 Time of recovery hours.
 Recovery water level feet.
 Pumping water level 100 feet.

Section 2: Location

Township	Range	Section	Quarter Sections	Geocode	
23N	19W	7	SE¼ NW¼	LAKE	
County					
Latitude	Longitude	Geomethod	Datum	Date	
47.771328616	-114.0841814475	TRS-SEC	NAD83	Date	
Ground Surface Altitude	Ground Surface Method		Datum		

* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.

Addition

FINELY POINT VILLA

Block

Lot

Section 8: Remarks

Section 3: Proposed Use of Water

DOMESTIC (1)

Section 4: Type of Work

Drilling Method: ROTARY
 Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Wednesday, September 21, 1994

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-1	20	6				STEEL
10	21	4				PVC

There are no completion records assigned to this well.

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	20	BENTONITE	

Section 9: Well Log

Geologic Source

400BELT - BELT SUPERGROUP

From	To	Description
0	1	BLACK DIRT
1	175	HARD GRAY ROCK
175	177	FRACTURED GRAY & BROWN ROCK & WATER 6-7GPM
177	205	HARD GRAY ROCK
205	207	FRACTURED GRAY & BROWN ROCK & WATER
207	210	HARD GRAY ROCK

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:
Company: CASTLIO DRILLING
License No: WWC-551
Date Completed: 9/21/1994

MONTANA WELL LOG REPORT

Other Options

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Site Name: HERN ARDELL AND POMEROY LISSA
GWIC Id: 152788

Section 7: Well Test Data

Total Depth: 305
 Static Water Level: 10.5
 Water Temperature:

Air Test *

 19 gpm with drill stem set at feet for 1 hours.
 Time of recovery hours.
 Recovery water level feet.
 Pumping water level 303 feet.

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Section 1: Well Owner(s)
 1) POMEROY, LISSA (MAIL)
 417 MINESINGER TRAIL
 POLSON MT 59860 [06/20/1995]
 2) HERN, ARDELL (MAIL)
 417 MINESINGER TRAIL
 POLSON MT 59860 [06/20/1995]

Section 2: Location

Township	Range	Section	Quarter Sections	County	Geocode
23N	19W	7	NW¼ NE¼ SW¼	LAKE	
Latitude	Longitude	Geomethod	Datum	Ground Surface Altitude	Ground Surface Method
47.768381	-114.085482	TRS-SEC	NAD83		
		Datum	Date		

Section 8: Remarks

Section 9: Well Log

Geologic Source

400MCRB - MIDDLE BELT CARBONATE

From	To	Description
0	1	BLACK DIRT
1	12	TAN CLAY
12	223	SOFT TO MODERATE GRAY ROCK
223	305	MODERATE TO HARD GRAY ROCK WITH LAYERS OF SOFT TO MODERATE BROWN ROCK

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:
Company: LOCHNER
License No: WWC-62
Date Completed: 6/20/1995

Addition FRIENDSHIPP VILLA **Block** **Lot** 1

Section 3: Proposed Use of Water

DOMESTIC (1)
 STOCKWATER (2)

Section 4: Type of Work

Drilling Method: ROTARY
 Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Tuesday, June 20, 1995

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-1.8	22.5	6				STEEL
10	302	4				PVC

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
263.8	302.2	4			3/8 DRILL HOLES

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	22	BENTONITE	

MONTANA WELL LOG REPORT

Other Options

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

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Site Name: CANNON RICHARD & M.
GWIC Id: 77517

Section 7: Well Test Data

Total Depth: 403
 Static Water Level: 98
 Water Temperature:

Section 1: Well Owner(s)

1) CANNON, RICHARD G AND MARJORIE R (MAIL)
 3100 NETTIE
 BUTTE MT 59701 [03/29/1985]

Air Test *

15 gpm with drill stem set at feet for 3 hours.
 Time of recovery hours.
 Recovery water level feet.
 Pumping water level 300 feet.

Section 2: Location

Township	Range	Section	Quarter Sections	Geocode
23N	19W	7	SW¼ SW¼ NW¼	
County				

LAKE

Latitude	Longitude	Geomethod	Datum	Datum Date
47.7697	-114.0891	UNKNOWN	NAD27	
Ground Surface Altitude	Ground Surface Method	Datum	Date	

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Addition	Block	Lot
BORCHERS OF FINLEY POINT		GOV 3

Section 8: Remarks

Section 3: Proposed Use of Water

DOMESTIC (1)

Section 9: Well Log

Geologic Source

400MCRB - MIDDLE BELT CARBONATE

Section 4: Type of Work

Drilling Method: AIR ROTARY
 Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Friday, March 29, 1985

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2.4	38.2	6				
33	403	4				PVC

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
323	343	4		1/4X6	SLOTS

Annular Space (Seal/Grout/Packer)

There are no annular space records assigned to this well.

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:
Company: LIBERTY DRILLING & PUMP CO
License No: WWC-52
Date Completed: 3/29/1985

MONTANA WELL LOG REPORT

Other Options

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

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Site Name: BISHOP LAURRY
GWIC Id: 168825

Section 7: Well Test Data

Total Depth: 115
Static Water Level: 55
Water Temperature:

Section 1: Well Owner(s)

1) BISHOP, LAURRY (MAIL)
781 FINLEY POINT LN
POLSON MT 59860 [06/24/1998]

Air Test *

50 gpm with drill stem set at feet for 1 hours.
Time of recovery hours.
Recovery water level feet.
Pumping water level 80 feet.

Section 2: Location

Township	Range	Section	Quarter Sections	County	Geocode
23N	19W	7		LAKE	
Latitude	Longitude	Geomethod	Datum	Ground Surface Altitude	Ground Surface Method
47.769364	-114.08158	TRS-SEC	NAD83		
Addition	Block	Lot	Datum	Date	
FINLEY POINT VILL	5	4			

* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.

Section 3: Proposed Use of Water

DOMESTIC (1)

Section 8: Remarks

Section 4: Type of Work

Drilling Method: ROTARY
Status: NEW WELL

Section 9: Well Log

Geologic Source

400BELT - BELT SUPERGROUP

Section 5: Well Completion Date

Date well completed: Wednesday, June 24, 1998

From	To	Description
0	13	TAN CLAY & GRAVEL
13	78	SOFT BROKEN BROWN ROCK
78	110	MED HARD GRAY ROCK
110	115	FRACTURED BROWN & GRAY ROCK & WATER

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	20	10
20	115	6

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	78	6				STEEL
75	115	4				PVC

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
95	115	4		0.020	FACTORY SLOTTED

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	20	BENTONITE	

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:
Company: CASTLIO DRILLING
License No: WWC-46
Date Completed: 6/24/1998

MONTANA WELL LOG REPORT

Other Options

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

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- [Plot this site in State Library Digital Atlas](#)
- [Plot this site in Google Maps](#)
- [View hydrograph for this site](#)
- [View field visits for this site](#)
- [View water quality for this site](#)
- [View scanned well log_\(7/8/2009 2:45:29 PM\)](#)

Site Name: AMRINE, ROBERT Y.,SALLY H., AND BRUCE R.
GWIC Id: 77520
DNRC Water Right: 73982

Section 7: Well Test Data

Total Depth: 324
 Static Water Level: 26
 Water Temperature:

Section 1: Well Owner(s)

1) AMRINE, ROBERT Y AND SALLY H AND R BRUCE (MAIL)
 687 FINLEY POINT RD
 POLSON MT 59860 [11/01/1988]

Air Test *

20 gpm with drill stem set at feet for 5 hours.
 Time of recovery hours.
 Recovery water level feet.
 Pumping water level feet.

Section 2: Location

Township	Range	Section	Quarter Sections	County	Geocode		
23N	19W	7	NW¼ NW¼ NE¼ SW¼	LAKE			
Latitude	Longitude	Geomethod	Datum	Ground Surface Altitude	Ground Surface Method	Datum	Date
47.7686	-114.0847	MAP	NAD27	2920			
Measuring Point Altitude	MP Method	Datum	Date Applies	Addition	Block	Lot	
2920			10/24/1996	FRIENDSHIP VILLA		GOV 2	

* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.

Section 3: Proposed Use of Water

DOMESTIC (1)

Section 8: Remarks

USE 2 CRESCENT WRENCHES TO LOOSEN CAP SAMPLING PT - HYDRANT 7 YDS W. OF WELL.

Section 4: Type of Work

Drilling Method: AIR ROTARY
 Status: NEW WELL

Section 9: Well Log

Geologic Source

400MCRB - MIDDLE BELT CARBONATE

Section 5: Well Completion Date

Date well completed: Tuesday, November 1, 1988

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2.9	37.7	6				
24	324	4				PVC

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
284	304	4		1/4X4	SLOTS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	37.7	PURE CEMENT	

From	To	Description
0	0.5	TOPSOIL
0.5	17	GRAY ROCK
17	29	LIGHT TO DARK GRAY- GREEN-BROWN & GRAY-BROWN ROCK IN ALTERNATE LAYERS
29	41	GRAY ROCK
41	46	GRAY AND GRAY-BRAOWN ROCK IN ALTERNATE LAYERS
46	79	LIGHT TO DARK GRAY AND GRAY-BROWN ROCK IN ALTERNATE LAYERS.
79	95	BROWN- GREEN-BROWN & GRAY ROCK IN ALTERNATE LAYERS
95	107	LIGHT TO DARK GRAY ROCK
107	121	FRACTURED GREEN-BROWN-YELLOW-BROWN & GRAY ROCK IN ALTERNATE LAYERS. SEEP OF WATER.
121	156	LIGHT TO DARK GRAY ROCK
156	168	LIGHT TO DARK GRAY- GREEN-GRAY & GREEN-BROWN ROCK IN ALTERNATE LAYERS.
168	192	GRAY ROCK
192	248	LIGHT TO DARK GRAY ROCK & ORANGE-BROWN ROCK IN ALTERNATE LAYERS
248	263	GRAY- GREEN-GRAY & LIGHT BROWN ROCK IN ALTERNATE LAYERS
263	275	GRAY ROCK

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

<p>Name: Company: LIBERTY DRILLING & PUMP CO License No: WWC-52</p>

Date Completed: 11/1/1988

Site Name: AMRINE, ROBERT Y.,SALLY H., AND BRUCE R.		
GWIC Id: 77520		
Additional Lithology Records		
From	To	Description
275	283	GRAY- GREEN-GRAY & YELLOW-BROWN ROCK IN ALTERNATE LAYERS
283	291	LIGHT TO MEDIUM GRAY ROCK
291	324	FRACTURED GRAY- GREEN-GRAY & YELLOW-BROWN ROCK IN ALTERNATE LAYERS



HAFFERMAN ENGINEERING, INC.

Client Name: Timbrshor HOA

HEI Account No.: T.58.2

Date: 10/22/2019

Assignment: Hafferman

Project description: K values from Well Logs

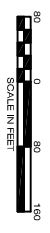
$T=33.6 (Q/s)^{0.67}$

Q= pumping rate ft³/day

s= drawdown ft.

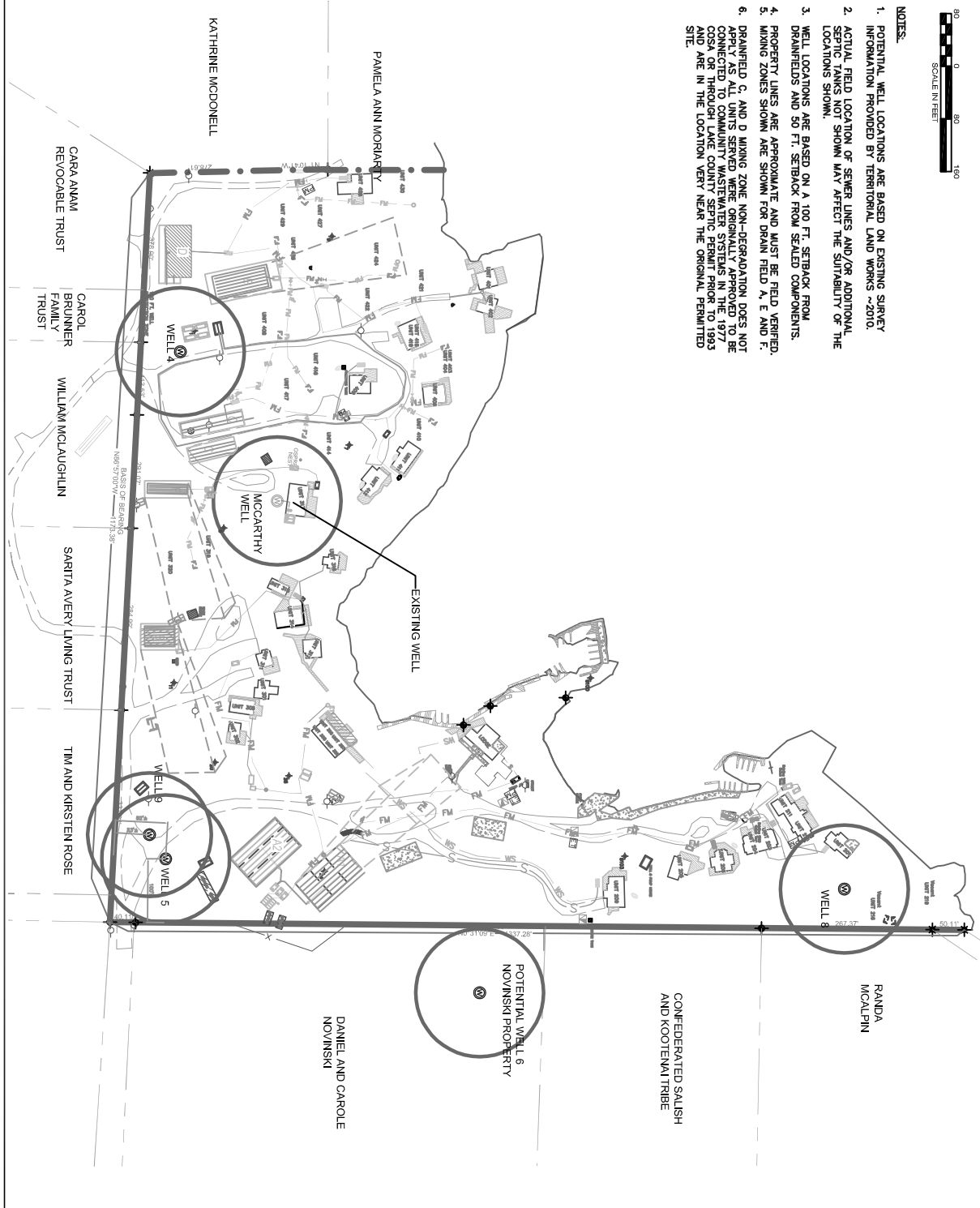
$K = T * \text{Aquifer Thickness}$

Site Name	GWIC ID	TD	SWL	PWL	Formation	Q (gpm)	Q ft ³ /day	Drawdown (s) ft.	T	Aquifer Thickness (ft.)	K (ft./day)
Cannon (McCarthy)	77517	403	98	300	Middle Belt Carbonate	15	2888	202	199.68	20	10.0
Bishop (Novinski)	168825	115	55	80	Belt Supergroup	50	9626	25	1813.92	20	90.7
Woodahl	77518	180	20	94	Middle Belt Carbonate	25	4813	74	551.01	10	55.1
Turner	143247	283	8	210	Middle Belt Carbonate	10	1925	202	152.17	10	15.2
McCormick	94427	210	18	100	Belt Supergroup	40	7701	82	704.78	10	70.5
McLaughlin	268468	345	60	340	UNKNW	25	4813	280	225.92	40	5.6
Hern	152788	305	10.5	303	Middle Belt Carbonate	19	3658	292.5	182.55	38.4	4.8
Metz	150667	240	28	150	Middle Belt Carbonate	25	4813	122	394.17	40	9.9
										Average K	32.72



NOTES:

1. POTENTIAL WELL LOCATIONS ARE BASED ON EXISTING SURVEY INFORMATION PROVIDED BY TERRITORIAL LAND WORKS ~2010.
2. ACTUAL FIELD LOCATION OF SEWER LINES AND/OR ADDITIONAL SEPTIC TANKS NOT SHOWN MAY AFFECT THE SUITABILITY OF THE LOCATIONS SHOWN.
3. WELL LOCATIONS ARE BASED ON A 100 FT. SETBACK FROM DRAINFIELDS AND 50 FT. SETBACK FROM SEALED COMPONENTS.
4. PROPERTY LINES ARE APPROXIMATE AND MUST BE FIELD VERIFIED.
5. MIMING ZONES SHOWN ARE SHOWN FOR DRAIN FIELD A, E AND F.
6. DRAINFIELD C AND D MIMING ZONE NON-BERGERATION DOES NOT APPLY. ALL UNITS SERVED BY DRAINFIELD C AND D MUST BE CONNECTED TO COMMUNITY WASTEWATER SYSTEMS IN THE 1977 COSA OR THROUGH LAKE COUNTY SEPTIC PERMIT PRIOR TO 1993 AND ARE IN THE LOCATION VERY NEAR THE ORIGINAL PERMITTED SITE.



LEGEND

	(B) PROPERTY BOUNDARY
	(B) ADJACENT PROPERTY BOUNDARY
	(B) LOT LINE
	(B) WATER LINE
	(B) WATER SERVICE
	(B) SEWER FORCE MAIN SERVICE
	(E) GRAVEL ROAD
	(E) CONCRETE
	(P) INDIVIDUAL SEPTIC TANK AND LINE
	(P) FORSCEMAN
	(P) GRAVITY SEWER SERVICE

SYMBOLS

	(E) SEPTIC TANK
	(E) DRAINFIELD
	(E) WELL
	(E) TELEPHONE JUNCTION BOX
	(E) ELECTRICAL TRANSFORMER
	(E) POWER METER
	(E) POWER POLE
	SET 3/8\" X 24 REBAR WITH 1 1/4\" PVC STAMPED VAL. CHRISTENS SAULUS. FOUND AS NOTED.
	FOUND 2\" BRASS CAP
	FOUND PVC PIPE
	FOUND PROPANE TANK
	EXISTING BUILDING
	EXISTING SOIL PROFILE
	EXISTING CONTROL POINT
	(P) CHECK VALVE
	(P) AIR RELEASE VALVE
	(P) DRAINFIELD
	(P) SEPTIC ROSE TANK
	(P) ISOLATION GATE VALVE
	(P) SEPTIC

NOTE: NOT ALL FEATURES SHOWN IN LEGEND AND SYMBOLS APPEAR IN DRAWING.

**TIMBRSHOR WATER
SYSTEM DEVELOPMENT PLAN
FOR
TIMBRSHOR HOMEOWNERS ASSOCIATION**



HABITAT BUILDERS INC.
2250 EAST 10TH AVENUE
SPOKANE, IDAHO 83402
PHONE: (208) 325-2898
FAX: (208) 325-2898
WWW.HBI-IDAHO.COM

DATE:	DESCRIPTION:	BY:
OCTOBER 2019	REVISION 2	
SCALE:	AS SHOWN	
DRAWING NUMBER:	WELL PROPERTY AND MIMING ZONES	
PROJECT NO.:	19-27	
DATE:	PROJECT NO.:	
OCTOBER 2019	19-27	

SECTION 7, T.23N, R.19W, P.4M, M, LAKE COUNTY, MONTANA

Conductivity (K) Calculations

Q=pumping rate (gpm)

s= drawdown (feet)

$$\text{Equation \#1 } T = 33.6(Q/s)^{0.67}$$

T=Transmissivity

Qa=pumping rate in gpm

Q=pumping rate in Ft³/day

s=drawdown (ft)

	Huard Well GWIC 77579	Feist Well GWIC 77579	Fox Well GWIC 77579
	40.00	25.00	130.00
	32.00	22.00	127.00
	1323.85	1241.95	1157.98
	40.00	25.00	130.00
	7700.00	4812.50	25025.00
	32.00	22.00	127.00

$$\text{Equation \#2: } K = T/b$$

K = hydraulic conductivity (feet/day)

T= transmissivity (square feet/day)

b = aquifer thickness (feet)

(this can be equal to the screened interval or approximately 10 feet if well is finished at the bottom of drill hole with an open casing with no perforated screened interval)

Average		
132.38	124.20	115.80
1323.85	1241.95	1157.98
10.00	10.00	10.00
		124.13

**Montana Bureau of Mines and Geology
Ground-Water Information Center Site Report
HUARD D R**

[Plot this site on a topographic map](#)

Location Information

GWIC Id: 77579
Location (TRS): 23N 19W 19
County (MT): LAKE
DNRC Water Right: 18821
PWS Id:
Block: 1
Lot: 5
Addition: ALSON VILLA

Source of Data: LOG
Latitude (dd): 47.7395
Longitude (dd): -114.0807
Geomethod: TRS-SEC
Datum: NAD27
Altitude (feet):
Certificate of Survey:
Type of Site: WELL

Well Construction and Performance Data

Total Depth (ft): 120.00
Static Water Level (ft): 48.00
Pumping Water Level (ft): 80.00
Yield (gpm): 40.00
Test Type: PUMP
Test Duration: 3.00
Drill Stem Setting (ft):
Recovery Water Level (ft):
Recovery Time (hrs):
Well Notes:

How Drilled: FORWARD ROTARY
Driller's Name: OKEEFE
Driller License: WWC008
Completion Date (m/d/y): 4/24/1978
Special Conditions:
Is Well Flowing?:
Shut-In Pressure:
Geology/Aquifer: 112DRFT
Well/Water Use: DOMESTIC

Hole Diameter Information

No Hole Diameter Records currently in GWIC.

Casing Information¹

From	To	Dia	Wall Thickness	Pressure Rating	Joint	Type
0.0	120.0	6.0				STEEL

Annular Seal Information

No Seal Records currently in GWIC.

Completion Information¹

From	To	Dia	# of Openings	Size of Openings	Description
120.0	120.0	6.0			OPEN BOTTOM *

Lithology Information

From	To	Description
0.0	40.0	SAND- GRAVEL
40.0	60.0	SILTY SAND
60.0	115.0	CLAY- SAND- SILT
115.0	120.0	GRAVEL

¹ - All diameters reported are **inside** diameter of the casing.

These data represent the contents of the GWIC databases at the Montana Bureau of Mines and Geology at the time and date of the retrieval. The information is considered unpublished and is subject to correction and review on a daily basis. The Bureau warrants the accurate transmission of the data to the original end user. Retransmission of the data to other users is discouraged and the Bureau claims no responsibility if the material is retransmitted. Note: non-reported casing, completion, and lithologic records may exist in paper files at GWIC.

**Montana Bureau of Mines and Geology
Ground-Water Information Center Site Report
FEIST STEVE & LINDA**

[Plot this site on a topographic map](#)

Location Information

GWIC Id: 177502
Location (TRS): 23N 19W 19 AD
County (MT): LAKE
DNRC Water Right:
PWS Id:
Block:
Lot: 1
Addition:

Source of Data: LOG
Latitude (dd): 47.7413
Longitude (dd): -114.0725
Geomethod: TRS-SEC
Datum: NAD27
Altitude (feet):
Certificate of Survey:
Type of Site: WELL

Well Construction and Performance Data

Total Depth (ft): 168.00
Static Water Level (ft):
Pumping Water Level (ft): 22.00
Yield (gpm): 25.00
Test Type: AIR
Test Duration: 1.00
Drill Stem Setting (ft):
Recovery Water Level (ft): 9.00
Recovery Time (hrs): 0.08
Well Notes:

How Drilled: ROTARY
Driller's Name: JEROME
Driller License: WWC002
Completion Date (m/d/y): 4/9/1999
Special Conditions:
Is Well Flowing?:
Shut-In Pressure:
Geology/Aquifer: 112ALVM
Well/Water Use: DOMESTIC

Hole Diameter Information

No Hole Diameter Records currently in GWIC.

Annular Seal Information

No Seal Records currently in GWIC.

Casing Information¹

From	To	Dia	Wall Thickness	Pressure Rating	Joint	Type
-2.0	168.0	6.0				STEEL

Completion Information¹

From	To	Dia	# of Openings	Size of Openings	Description
168.0	168.0	6.0			OPEN BOTTOM *

Lithology Information

From	To	Description
0.0	12.0	SAND & GRAVEL
12.0	70.0	SILTY SAND WITH WATER CLAY LAYERS
70.0	158.0	SILTY SAND WITH WATER THIN GRAVEL LAYERS
158.0	168.0	SAND & GRAVEL WITH WATER

¹ - All diameters reported are **inside** diameter of the casing.

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**Montana Bureau of Mines and Geology
Ground-Water Information Center Site Report
FOX JOHN**

Plot this site on a topographic map

Location Information

GWIC Id: 156680	Source of Data: LOG
Location (TRS): 23N 19W 18 AB	Latitude (dd): 47.7598
County (MT): LAKE	Longitude (dd): -114.0783
DNRC Water Right:	Geomethod: TRS-SEC
PWS Id:	Datum: NAD27
Block:	Altitude (feet):
Lot:	Certificate of Survey:
Addition: FINLEY POINT ESTATES	Type of Site: WELL

Well Construction and Performance Data

Total Depth (ft): 287.00	How Drilled: ROTARY
Static Water Level (ft): 160.00	Driller's Name: ALLWEST
Pumping Water Level (ft):	Driller License: WWC571
Yield (gpm): 130.00	Completion Date (m/d/y): 2/27/1996
Test Type: AIR	Special Conditions:
Test Duration: 3.00	Is Well Flowing?:
Drill Stem Setting (ft):	Shut-In Pressure:
Recovery Water Level (ft):	Geology/Aquifer: 112ALVM
Recovery Time (hrs):	Well/Water Use: DOMESTIC
Well Notes:	

Hole Diameter Information

No Hole Diameter Records currently in GWIC.

Casing Information¹

From	To	Dia	Wall Thickness	Pressure Rating	Joint	Type
-2.0	287.0	8.0				STEEL

Annular Seal Information

From	To	Description
0.0	40.0	CEMENT

Completion Information¹

From	To	Dia	# of Openings	Size of Openings	Description
287.0	287.0	8.0			OPEN BOTTOM *

Lithology Information

From	To	Description
0.0	95.0	SAND GRAVEL COBBLES
95.0	165.0	GRAVEL LARGE COBBLES
165.0	260.0	GRAVEL SILTY SAND
260.0	287.0	GRAVEL SAND WATER

¹ - All diameters reported are **inside** diameter of the casing.

These data represent the contents of the GWIC databases at the Montana Bureau of Mines and Geology at the time and date of the retrieval. The information is considered unpublished and is subject to correction and review on a daily basis. The Bureau warrants the accurate transmission of the data to the original end user. Retransmission of the data to other users is discouraged and the Bureau claims no responsibility if the material is retransmitted. Note: non-reported casing, completion, and lithologic records may exist in paper files at GWIC.

2893

2896

2875

2901

2891

2904

2883

2890

2898

2883

2907

28

29



Rowland Environmental Consulting Inc.

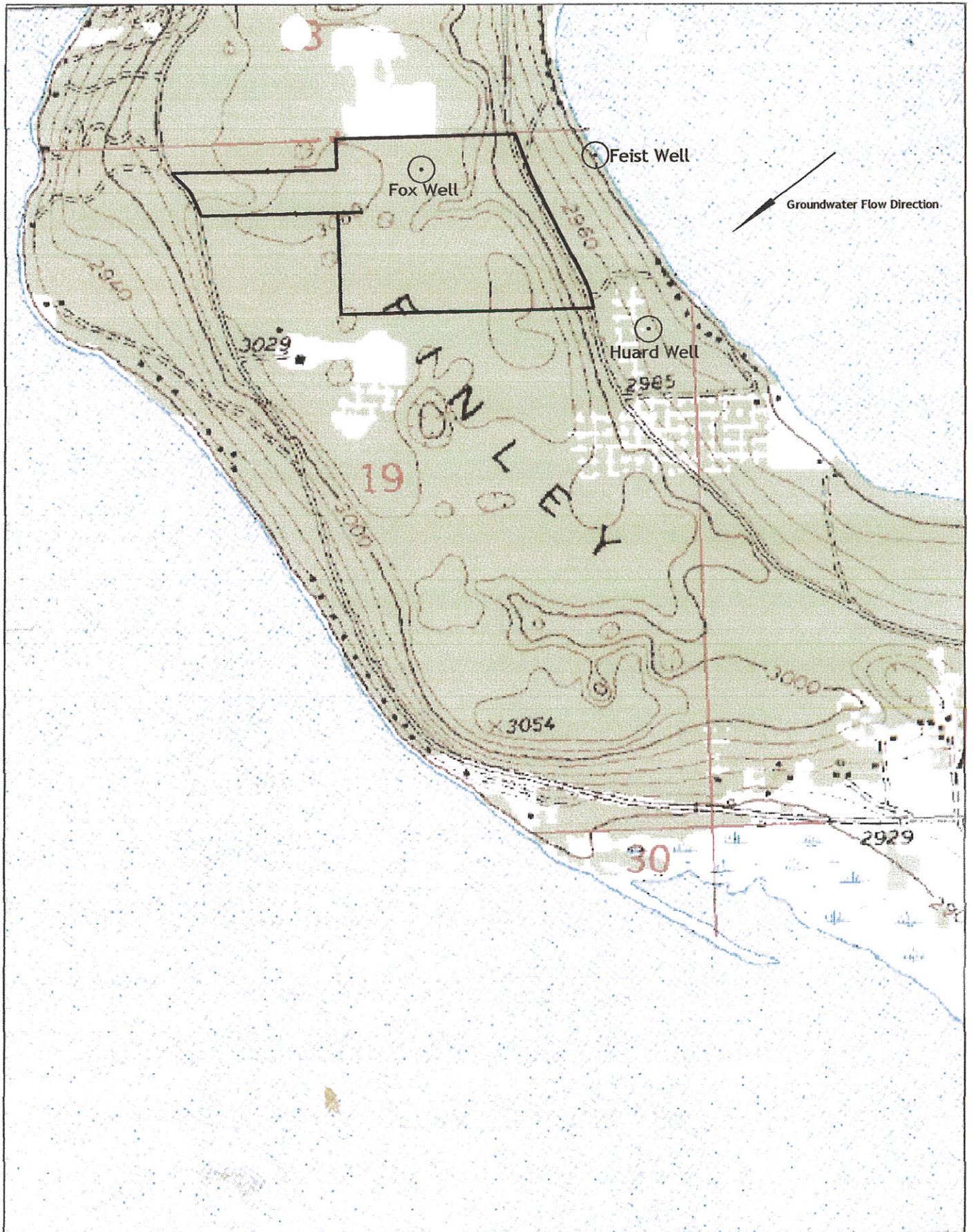
SIZE
A

Potentiometric Surface Map of the Southern Part of the
Flathead Lake Area by John I. LaFave

SCALE 1"=2000'

Finley Point Estates

T.23N, R19W, Section 19



Rowland Environmental Consulting, Inc.

SIZE
A

A Portion of the East Bay USGS Quadrangle

REV

SCALE 1"=1000'

Rewrite of Finley Point Estates

Contour Interval = 20'



Fox Well (Low Well)

TOC 3051.17
Static 160.6



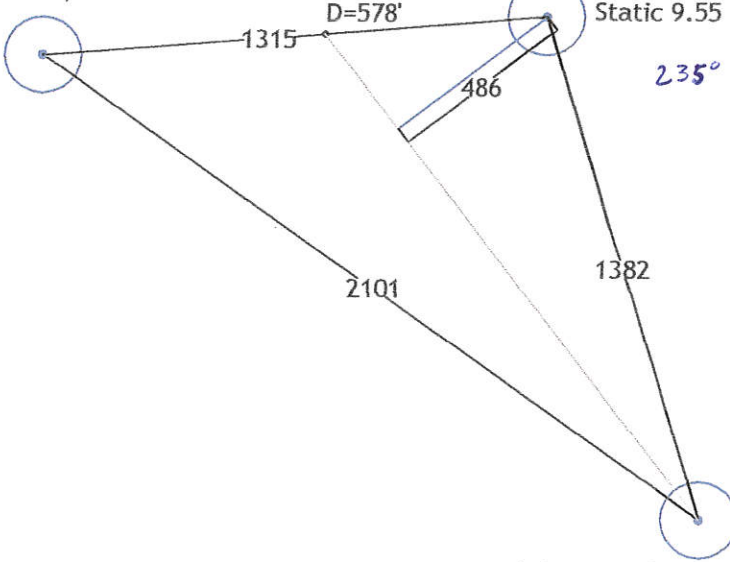
Feist Well (High Well)

TOC 2903.54
Static 9.55



Huard Well (Intermediate Well)

TOC 2940.28
Static 47.8



Rowland Environmental Consulting, Inc.

SIZE A	Groundwater Flow Determination	REV
SCALE 1"=50'	Calculated Using Appendix H of How to Perform a Nondegradation Analysis	

FINLEY POINT ESTATES

Hydraulic Gradient calculations*

static rank	well identification	well elevation	static	static elevation	horizontal distance in feet
high	Feist Well	2903.54	9.55	2893.99	high to mid
intermediate	Huard Well	2940.28	47.80	2892.48	mid to low
low	Fox Well	3051.17	160.60	2890.57	high to low

- A= 3.41 ft
- B= 385.61 ft
- C= 1.50 ft
- D= 578.42 ft
- E= 486.00 ft
- X= 578.42 ft
- Hydraulic grad. **0.0031** ft/ft

High static water level=(HSWE)
 Intermediate water level=(ISWE)

Horizontal distance=(HD)
 Low water level=(LSWE)

A= (hswe)-(lswe)
 C= (hswe)-(iswe)
 X=distance D from hswe to lswe plotted on line
 ground water flow= draw a line perpendicular to the iswe contour line through hswe
 E=distance along ground water flow line from hswe to iswe contour line
 Hydraulic gradient = C/E
 ft/ft

* Calculations based on Appendix H of "How to perform a Nondegradation Analysis"

Finley Point Estates				
Lot #	Lg	L	W	Mixing Zone Length
2	180	190	7	500
3	180	190	7	500
4	180	190	7	200
5	180	190	7	100
6	180	190	7	200
7	180	190	7	500
8	190	190	7	500
9	70	190	7	200
10	130	190	7	100
11	170	190	7	100
12	60	190	7	100
13	160	190	7	100
14	135	190	7	200
15	160	190	7	100

Lg Length of Primary Drainfield as Measured
Perpendicular to groundwater flow

L Length of Primary Drainfield's Long Axis

W Width of Primary Drainfield's Short Axis

APPENDIX D

MCCARTHY WATER QUALITY RESULTS,

REC WATER QUALITY RESULTS

ARMINE WATER QUALITY RESULTS



ANALYTICAL REPORT

Montana Environmental Laboratory LLC

1170 N. Meridian Rd., P.O. Box 8900, Kalispell, MT 59904-1900

Phone: 406-755-2131 Fax: 406-257-5359 www.melab.us

Dan Nelson
Hafferman Engineering
P.O. Box 1891
Kalispell, MT 59903

PWS ID:
Project: Timbrshr/McCarthy Res

Client Sample ID: Spigot - Center Rear of Home

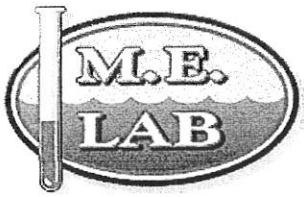
Lab ID: 1510514-01

Matrix: DRINKING WATER

Collected: 11/02/2015 14:18

Received: 11/03/2015 8:40

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
Nitrate	0.13	mg/L	0.01	10	E353.2		11/06/2015 14:01	GDM
Nitrate + Nitrite, Total	0.13	mg/L	0.01	10	E353.2		11/06/2015 14:01	GDM
Nitrite	ND	mg/L	0.01	1	E353.2		11/06/2015 14:01	GDM



ANALYTICAL REPORT

Montana Environmental Laboratory LLC

Prepared for:

Rowland Environmental Consulting
P.O. Box 171
Polson, MT 59860

ORDER#: G0401098

Location: Finley Point Estates (Fox Well: 156680) Matrix: DRINKING WATER Date Collected: 02/12/2004
PWS ID: Date Received: 02/13/2004
Lab ID: 0401098-01

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MCL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Conductivity	294	umhos	.1		2510 B	02/13/2004	JWH
Nitrate + Nitrite, Total	0.10	mg/L	0.01	10	353.2	02/13/2004	JWH

MCL = Maximum Contaminant Limit ND = Not Detected
MDL = Minimum Detection Limit NR = Not Regulated

MEL REVIEW: *JMC*

Ground-Water Information Center Water Quality Report

Site Name: AMRINE, ROBERT Y., SALLY H., AND BRUCE R.

Report Date: 10/22/2019

[Compare to Water Quality Standards](#)

Location Information

Sample Id/Site Id: 1997Q0505 / 77520	Sample Date: 10/24/1996 12:00:00 PM
Location (TRS): 23N 19W 07 CABB	Agency/Sampler: MBMG / SVM
Latitude/Longitude: 47° 46' 6" N 114° 5' 4" W	Field Number: 77520
Datum: NAD27	Lab Date: 4/21/1997
Altitude: 2920	Lab/Analyst: MBMG / TSH
County/State: LAKE / MT	Sample Method/Handling: PUMPED / 4220
Site Type: WELL	Procedure Type: DISSOLVED
Geology: 400MCRB	Total Depth (ft): 324
USGS 7.5' Quad: BULL ISLAND 7 1/2'	SWL-MP (ft): NR
PWS Id:	Depth Water Enters (ft): 284
Project: GWCP02	

Major Ion Results

	mg/L	meq/L		mg/L	meq/L
Calcium (Ca)	93.800	4.681	Bicarbonate (HCO3)	361.100	5.918
Magnesium (Mg)	19.500	1.605	Carbonate (CO3)	0.000	0.000
Sodium (Na)	7.100	0.309	Chloride (Cl)	<.5	0.000
Potassium (K)	0.747	0.019	Sulfate (SO4)	7.300	0.152
Iron (Fe)	0.391	0.014	Nitrate (as N)	<.25 P	0.000
Manganese (Mn)	0.003	0.000	Fluoride (F)	<1.	0.000
Silica (SiO2)	18.400		Orthophosphate (as P)	<.25	0.000
Total Cations		6.660	Total Anions		6.070

Trace Element Results (卍/L)

Aluminum (Al):	<30.	Cesium (Cs):	NR	Molybdenum (Mo):	<10.	Strontium (Sr):	161.000
Antimony (Sb):	<2.	Chromium (Cr):	<2.	Nickel (Ni):	3.800	Thallium (Tl):	NR
Arsenic (As):	<1.	Cobalt (Co):	<2.	Niobium (Nb):	NR	Thorium (Th):	NR
Barium (Ba):	48.700	Copper (Cu):	<2.	Neodymium (Nd):	NR	Tin (Sn):	NR
Beryllium (Be):	<2.	Gallium (Ga):	NR	Palladium (Pd):	NR	Titanium (Ti):	<10.
Boron (B):	<30.	Lanthanum (La):	NR	Praseodymium (Pr):	NR	Tungsten (W):	NR
Bromide (Br):	<250.	Lead (Pb):	<2.	Rubidium (Rb):	NR	Uranium (U):	NR
Cadmium (Cd):	<2.	Lithium (Li):	15.000	Silver (Ag):	<1.	Vanadium (V):	<5.
Cerium (Ce):	NR	Mercury (Hg):	NR	Selenium (Se):	<1.	Zinc (Zn):	939.000
						Zirconium (Zr):	<20.

Field Chemistry and Other Analytical Results

**Total Dissolved Solids (mg/L):	325.07	Field Hardness as CaCO3 (mg/L):	NR	Ammonia (mg/L):	NR
**Sum of Diss. Constituents (mg/L):	508.24	Hardness as CaCO3:	314.48	T.P. Hydrocarbons (卍/L):	NR
Field Conductivity (痠hos):	524	Field Alkalinity as CaCO3 (mg/L):	336	PCP (卍/L):	NR
Lab Conductivity (痠hos):	549	Alkalinity as CaCO3 (mg/L):	296.08	Phosphorus, TD (mg/L):	NR
Field pH:	7.24	Ryznar Stability Index:	6.013	Field Nitrate (mg/L):	NR
Lab pH:	8.1	Sodium Adsorption Ratio:	0.1718	Field Dissolved O2 (mg/L):	NR
Water Temp (蛭):	10.4	Langlier Saturation Index:	1.044	Field Chloride (mg/L):	NR
Air Temp (蛭):	NR	Nitrite (mg/L as N):	NR	Field Redox (mV):	134.5
Nitrate + Nitrite (mg/L as N)	NR	Hydroxide (mg/L as OH):	NR	Lab, Dissolved Organic Carbon (mg/L):	NR
Total Kjeldahl Nitrogen (mg/L as N)	NR	Lab, Dissolved Inorganic Carbon (mg/L):	NR	Lab, Total Organic Carbon (mg/L):	NR
Total Nitrogen (mg/L as N)	NR	Acidity to 4.5 (mg/L CaCO3)	NR	Acidity to 8.3 (mg/L CaCO3)	NR
As(III) (ug/L)	NR	As(V) (ug/L)	NR	Total Susp Solids (mg/L)	NR

Additional Parameters

Alkalinity fld (CaCO3) 336.000 Phosphate T Dis (mg/L - P) L.2 Redox Potential (Mv) 134.500

Thallium Diss. (ug/L-Tl) L5

Sample Condition: CLEAR

Field Remarks:

Lab Remarks:

Notes

Explanation: mg/L = milligrams per Liter; 卍/L = micrograms per Liter; ft = feet; NR = No Reading in GWIC

Qualifiers: A = Hydride atomic absorption; E = Estimated due to interference; H = Exceeded holding time; J = Estimated quantity above detection limit but below reporting limit; K = Na+K combined; N = Spiked sample recovery not within control limits; P = Preserved sample; S = Method of standard additions; U = Undetected quantity below detection limit; * = Duplicate analysis not within control limits; ** = Sum of Dissolved Constituents is the sum of major cations (Na, Ca, K, Mg, Mn, Fe) and anions (HCO3, CO3, SO4, Cl, SiO2, NO3, F) in mg/L. Total Dissolved Solids is reported as equivalent weight of evaporation residue.

Disclaimer

These data represent the contents of the GWIC databases at the Montana Bureau of Mines and Geology at the time and date of the retrieval. The information is considered unpublished and is subject to correction and review on a daily basis. The Bureau warrants the accurate transmission of the data to the original end user. Retransmission of the data to other users is discouraged and the Bureau claims no responsibility if the material is retransmitted.

APPENDIX E

PWS-5 REPORTS WITH THOA PWS SYSTEM MAPS

PWS-5 A.R.M. RULE DEVIATION REQUESTS

WELL CONSTRUCTION STANDARDS

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Metcalf Building 1520 East Sixth Avenue P.O. Box 200901 Helena, MT 59620-0901

PRELIMINARY ASSESSMENT WORKSHEET

Preliminary Assessment of Ground Water Sources that may be Under the Direct Influence of Surface Water

PWS System and Source Facility Information			
PWS Name:	TIMBERSHOR SUBDIVISION PWS	PWS ID#: <small>(MT000nnnn)</small>	
Type (C, NTNC, NC):	TNC	County:	LAKE
Source Facility Name:	THOA WELL 4	SDWIS Facility ID: <small>(WL00n,SP00n,IG00n)</small>	Population Served: 50
		Date: <small>(m/d/yy)</small>	10/25/19

COMPUTE PA SCORE Mark (X) ONE option that applies and enter option index pts at right	Points
A. TYPE OF STRUCTURE	
Spring (40) ___ Horizontal Well (40) ___ Well (0) <u>X</u>	<u>0</u>
B. HISTORICAL PATHOGENIC ORGANISM CONTAMINATION: History or suspected outbreak of Giardia, or other pathogenic organisms associated with surface water, with current system configuration.	
Yes (40) ___ No (0) <u>X</u>	<u>0</u>
C. HISTORICAL MICROBIOLOGICAL CONTAMINATION:	
I) Record of acute (boil order or fecal positive sample) MCL violations of the Total Coliform Rule during the last 3 years. Number of violations:	
None (0) <u>X</u> One (5) ___ Two (10) ___ Three (15) ___	<u>0</u>
II) Record of non-acute (two coliform positive samples in one month) MCL violations of the Total Coliform Rule during the last 3 years. Number of violations:	
None or One (0) <u>X</u> Two (5) ___ Three (10) ___ Turbidity Complaints (DEQ verified) (5) ___	<u>0</u>
D. HYDROLOGICAL FEATURES: Horizontal distance between surface water & source.	
> 250 ft (0) <u>450</u> 175 - 250 ft (10) ___ 100 - 174 ft (20) ___ < 100 ft (40) ___	<u>0</u>
E. WELL SEAL: Poorly constructed well (uncased, or annular space not sealed to depth of at least 18 feet below land surface), or casing construction is unknown.	
Yes (15) ___ No (0) <u>X</u>	<u>0</u>
F. WELL INTAKE CONSTRUCTION: In wells tapping unconfined or semi-confined aquifers, the depth below land surface to top of perforated interval or screen is:	
>100 ft (0) <u>X</u> 50-100 ft (5) ___ 25-49 ft (10) ___ 0-24 ft (15) ___ Unkn (15) ___	<u>0</u>
G. STATIC WATER LEVEL: In wells tapping unconfined or semi-confined aquifers, the depth to static water level below land surface is:	
>100 ft (0) ___ 50-100 ft (5) <u>100</u> 25-49 ft (10) ___ 0-24 ft (15) ___ Unkn (15) ___	<u>5</u>
H. WELL CAP CONSTRUCTION: Poor sanitary seal, or seal without acceptable material.	
Yes (15) ___ No (0) <u>X</u>	<u>0</u>
TOTAL PA SCORE (Right click in cell to right and select Update Field.)	<u>5</u>

Continued other side ...

PRELIMINARY ASSESSMENT WORKSHEET (continued)

I. PRELIMINARY ASSESSMENT DETERMINATION	Mark (X) ONE
1. PASS: Source is not under the direct influence of surface water.	X
2. FAIL: Well must undergo further GWUDISW analysis.	—
3. FAIL: Spring, must undergo further GWUDISW analysis.	—
4. FAIL: Well or horizontal well less than 100 feet from surface water, must undergo further GWUDISW analysis.	—
5. FAIL: Well will PASS if well construction deficiencies (section E or F) are repaired.	—
6. FAIL: Well may PASS if well construction details (section E, F, or G) become available.	—

ANALYST INFORMATION AND COMMENTS	
NAME:	KURTIS M. HAFFERMAN P.E. - HAFFERMAN ENGINEERING
AFFILIATION:	THOA PROJECT ENGINEER
COMMENTS	
<p>WELL 4 DEVELOPMENT IS BASED ON A NEARBY WELL, THE WELL LOG DEVELOPED ON MARCH 29, 1985 BY RICHARD CANNON, GWIC WELL LOG 77517. THE WELL WAS DRILLED BY LIBERTY DRILLING, ONE OF THE MORE REPUTABLE DRILLING OPERATIONS IN THE AREA SO THE WELL LOG IS ASSUMED TO BE ACCURATE.</p> <p>GROUNDWATER WAS ENCOUNTERED NEAR 323 FT. BGS AND THE STATIC WATER LEVEL IS 98 FT BGS. BECAUSE OF THE LACK OF WATER BEARING LAYERS UNTIL ENCOUNTERING WATER WELL BELOW GROUND SURFACE. IT IS ASSUMED THE AQUIFER IS CONFINED UNDER NUMEROUS OVER LAYING BEDROCK LAYERS.</p> <p>WATER QUALITY WAS TESTED IN NOVEMEBR 2015 AND THE NITRATE CONCENTRATION WAS 0.13 MG/L. I</p> <p>WELL ELEVATIONS FOR WELL 4 AND WATER QUALITY RESULTS ARE INTERPOLATED FROM THE CANNON WELL LOG.</p> <p>THE WELL CONTROL ZONE FOR WELL 4 CROSS ONTO A NEIGHBORING PROPERTY. THE SOUTH NEIGHBOR WILLIAM MCLAUGHLIN, REFUSED TO SIGN THE WCZ AGREEMENT. A DEVIATION FROM THE FULL 100 FT. WCZ IS REQUESTED. THE PROPOSED DEVIATION IS ATTACHED. PLANS AND SPECIFICATIONS FOR THE WELL CONSTRUCTION TO INCLUDE A MANMADE BARRIER OF CEMENT GROUT IS ALSO ATTACHED.</p>	

Electronic Entry Instructions: Open the WORD document template (DOT) as a WORD document (DOC) with an appropriate name and location. The document is protected from all edits other than form entry. Enter the requested information in the form fields and tab forward between fields. All character entries will be converted to upper case. In the Compute PA Score table for questions A through H, mark with an X the one option which applies to each, then enter the score corresponding to that option in the field to the right under the Points column. When scores A-H have been entered right click on the Total PA Score field and select Update Field. The total score will be computed. Select the PA Determination option by marking with an X. Fill out the Analyst Information and Comments table. Save the document with your entries.



PUBLIC WATER SUPPLY DEVIATION REQUEST

Project Name: Timbrshor Subdivision WELL #4

EQ

Engineer Name: Kurtis M. Hafferman, P.E.

Circular: DEQ-3 Standards for Small Water Systems

STANDARD: EXISTING STANDARD: Circular DEQ -3 Standards for Small Water Systems, August 8, 2014 Edition,

Chapter 3 – Source Development, 3.2.3.2 Continued protection, Continued protection of the well site from potential sources of contamination must be provided either through zoning, easements, deed notices, leasing, or other means acceptable to MDEQ. Easements and deed notices must be filed with the County Clerk and Records Office. Such protection must extend for at least 100-foot radius around the well (well isolation zone). In addition, separation distances between proposed wells and potential sources of contamination must be defined and justified by the applicant in accordance with Section 1.1.6 of this circular. The well isolation zone of a proposed or existing well may not be in a groundwater mixing zone as defined by ARM 17.30.517 and also may not include easements that would conflict with the proposed use. Fencing of the site may be required by MDEQ.

PROPOSED STANDARD:

Chapter 3 – Source Development, Section 3.2.3.2 Continued Protection

3.2.3.2 Continued protection of the well site from potential sources of contamination must be provided either through zoning, easements, deed notices, leasing, or other means acceptable to MDEQ. Easements and deed notices must be filed with the County Clerk and Records Office. Such protection, *where possible*, must extend for at least 100-foot radius around the well (well isolation zone). In addition, separation distances between proposed wells and potential sources of contamination must be defined and justified by the applicant in accordance with Section 1.1.6 of this circular. The well isolation zone of a proposed or existing well may not be in a groundwater mixing zone as defined by ARM 17.30.517 and also may not include easements that would conflict with the proposed use. Fencing of the site may be required by MDEQ.

3.2.3.2.1 Exceptions; when a new well is proposed and when the MDEQ has been consulted about well locations and the well isolation zone extends beyond the property-line on which the well is proposed, a deviation from Chapter 3 Source Development, Section 3.2.3.2 Continued Protection, can be granted to the required 100-foot radius well protection zone and/or the configuration of the zone if;

1. The proposed well location has been approved by MDEQ,
2. There are no sources of potential contamination; sewer lines, septic tanks, drain fields, mixing zones, holding tanks, and any structures used to convey or retain industrial, storm, or sanitary waste, state or federal highway rights-of-way, and any other sources of potential contamination as described in Chapter 3 Source Development, Section 1.1.6 (d) within the well isolation zone,
3. The well lies up-gradient from that portion of the well isolation zone in which the deviation is being requested, And
4. All efforts to change zoning, acquire an easement, deed notice, lease or other means acceptable by MDEQ have been exhausted and no agreement can be reached with the owners of the property(s) impacted by the well isolation zone of the proposed well.

JUSTIFICATION: *attach additional information as necessary*

The Timbrshor Subdivision has been determined to have 13 existing units that are using water from a COSA non-compliant water system. During development from 1977 until 2009, units could be constructed within the Timbrshor Subdivision and were not prevented from installing COSA non-compliant individual or multi-user surface water diversions from Flathead Lake for domestic water use. In 2003 Lake County informed the developer, Borchers of Finley Point and the Timbrshor Subdivision Homeowners Association (THOA) that new unit construction would not be permitted until a COSA compliant wastewater treatment system (WWTS) was installed. The County acknowledged that there was also a COSA non-complaint water system that was installed but, acknowledging that any issues with water rights associated to subdivision would be involved in the CSKT water right compact, instructed the developer and the THOA to proceed with the WWTS plans, approvals and construction.

As soon as the costs of the WWTS were known and assessed, the developer filed for bankruptcy and the Timbrshor

Homeowners Association (THOA) was the only party left to resolve the issues with a COSA non-compliant WWTS and water system. As the remaining owners, the THOA were immediately incumbered with not only the regulatory responsibility but a substantial financial responsibility to correct the developers COSA violations. Between 2013 and 2016 the THOA spent over \$550,000 to address the more urgent of the health issues by completing the WWTS.

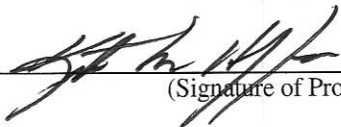
When the record drawings were filed in 2016 at Lake County, the THOA requested the County lift the building moratorium. The County contacted the DEQ who then informed the THOA that new unit construction would not be allowed until final approval of a COSA compliant water system. The THOA met with the DEQ, developed a plan that would more likely than not meet both the DNRC water right and DEQ regulations and the THOA water requirements. The THOA has retained Hafferman Engineering, Inc. and is now in the process of developing the plans and specifications for a transient non-community, multi-user, multiple groundwater well, domestic water supply and distribution system.

The THOA are again the parties affected by the building moratorium, and again are immediately incumbered with the financial responsibility to correct the developers COSA violations. The THOA is financially incumbered and cannot raise enough additional funds to afford the community surface water system contemplated in the original COSA, nor can they afford the extravagance of a dual well and storage system given the extreme difficulty to trench and bury water lines. HEI has had numerous conversations with MDEQ's Kalispell office and an email received from Emily Gillespie P.E. on September 24th, 2018 indicated, "TPW-4 Well Location-requires no deviations requests. This well could be pursued for an individual, shared, multi-user or public well (using standard submittal process).

There are no known sources of contamination on the neighboring property; septic systems, mixing zones, wastewater disposal systems, sewer lines, holding tanks, lift stations, French drains, class V injection wells, or any structures used to convey or retain industrial, storm or sanitary waste, within the well isolation zone for the proposed Well 4 well and the well lays up-gradient from the adjacent property to be impacted by the isolation zone. The area of the well isolation zone on the adjoining property is on the road, Snowberry Lane or the Timbrshor access road and cannot be otherwise used or developed.

Approximately 30% of the TPW-4 well isolation zone extends into 34819 Snowberry Lane who's legal description is Lot 3, Block 6 Finley Point Villa Site, Section 7, Township 23 N, Range 19 W, Lake County, Montana. This property is owned by William McLaughlin. After numerous attempts to negotiate a well control zone agreement with Mr. McLaughlin to allow the well isolation zone to encroach onto the property, Mr. McLaughlin has rejected all offers and therefore a deviation from 3.2.3.2 is necessary in order to proceed.

In accordance with ARM 17.38.101 (e), I certify that strict adherence to the above standard is not necessary to protect public health and the quality of state waters.



(Signature of Professional Engineer)

11-30-2019

(Date Signed)

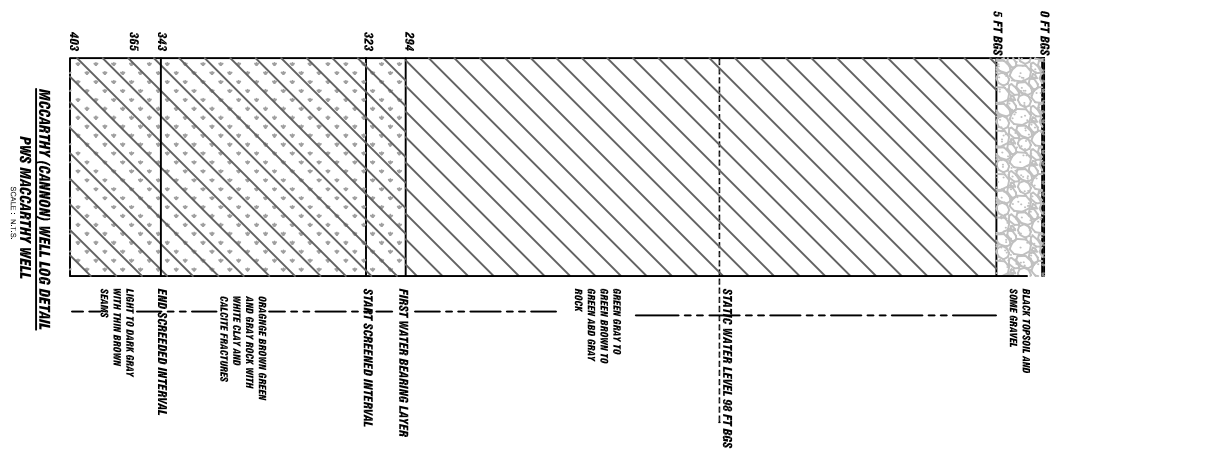
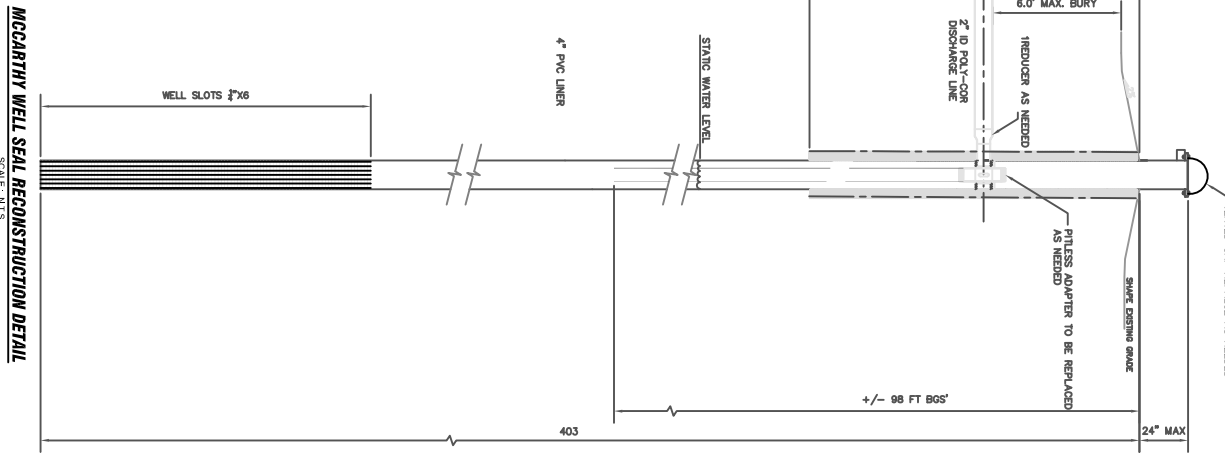
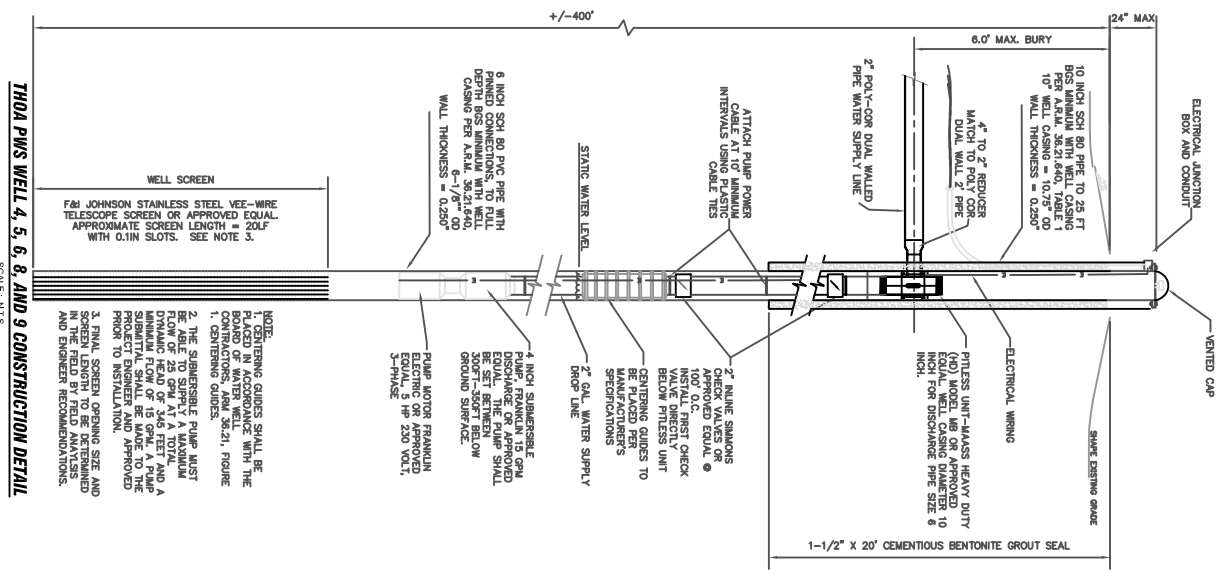
Montana P.E. Number PEL-PE-LIC-10457



For Department Use Only:

Review Engineer's Recommendation:

[Redacted area for Department Use Only]



THOA PWS WELL 4, 5, 6, 8, AND 9 CONSTRUCTION DETAIL
SCALE: N.T.S.

NOTE:
1. CENTERING GUIDES SHALL BE 1/2" DIA. GALVANNEAL WITH THE BOARD OF WATER WELL CONTRACTORS, A.M. 36-21, FIGURE 1, CENTERING GUIDES.
2. THE PUMPABLE PUMP MUST BE APPROVED BY THE PROJECT ENGINEER AND APPROVED DYNAMIC HEAD OF 345 FEET AND A FLOW OF 25 GPM AT A TOTAL HEAD OF 345 FEET.
3. FINAL SCREEN OPENING SIZE AND LOCATION TO BE ANALYZED AND ENGINEER RECOMMENDATIONS.

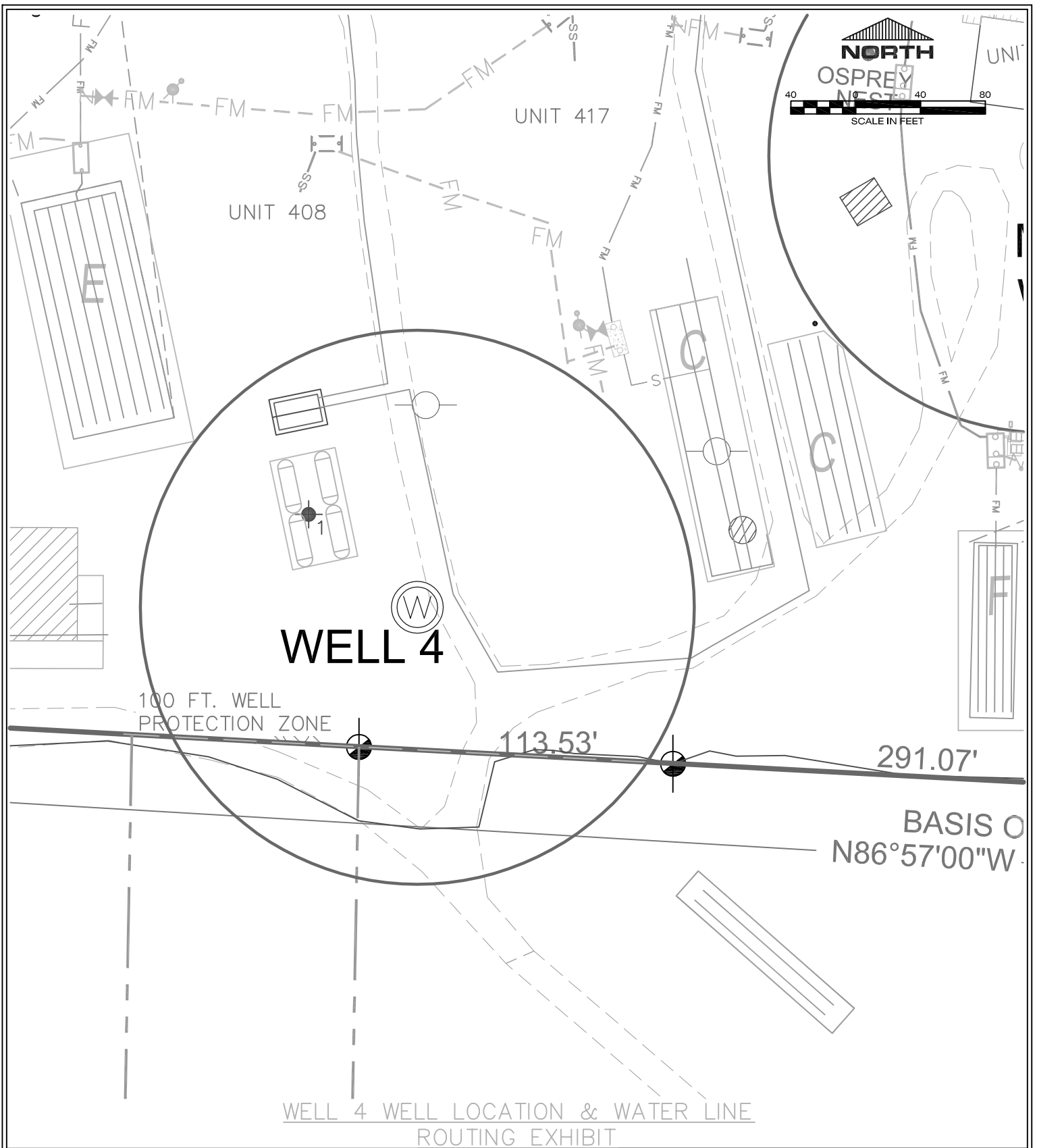
McCarthy Well Seal Reconstruction Detail
SCALE: N.T.S.

NOTE:
1. CENTERING GUIDES SHALL BE 1/2" DIA. GALVANNEAL WITH THE BOARD OF WATER WELL CONTRACTORS, A.M. 36-21, FIGURE 1, CENTERING GUIDES.
2. THE PUMPABLE PUMP MUST BE APPROVED BY THE PROJECT ENGINEER AND APPROVED DYNAMIC HEAD OF 345 FEET AND A FLOW OF 25 GPM AT A TOTAL HEAD OF 345 FEET.
3. FINAL SCREEN OPENING SIZE AND LOCATION TO BE ANALYZED AND ENGINEER RECOMMENDATIONS.

McCarthy (Cannal) Well Log Detail
SCALE: N.T.S.

NOTE:
1. CENTERING GUIDES SHALL BE 1/2" DIA. GALVANNEAL WITH THE BOARD OF WATER WELL CONTRACTORS, A.M. 36-21, FIGURE 1, CENTERING GUIDES.
2. THE PUMPABLE PUMP MUST BE APPROVED BY THE PROJECT ENGINEER AND APPROVED DYNAMIC HEAD OF 345 FEET AND A FLOW OF 25 GPM AT A TOTAL HEAD OF 345 FEET.
3. FINAL SCREEN OPENING SIZE AND LOCATION TO BE ANALYZED AND ENGINEER RECOMMENDATIONS.

<p>TIMBRSHOR HOA WATER SYSTEM IMPROVEMENTS FOR THE TIMBRSHOR HOA</p>		<p>DATE: 10/17/19 DESCRIPTION: DRAFT DESIGN DRAWINGS</p> <p>DATE: 10/23/19 DESCRIPTION: DRAFT CONSTRUCTION</p> <p>DATE: 10/29/19 DESCRIPTION: PILETS AND WATER LINES</p> <p>DATE: 11/26/19 DESCRIPTION: TO BE ISSUED FOR REVIEW</p> <p>DATE: 10/30/19 DESCRIPTION: SUBMITTAL</p>	<p>BY: HLF CHK: HLF APP: HLF APP: HLF</p>
<p>SCALE: AS SHOWN DATE: PREPARED BY: C/OBER 2019 DRAWING NUMBER: 10F1</p>	<p>DESIGNER: [Signature] WELL DETAIL B</p>	<p>REVISIONS</p>	<p>BY: HLF CHK: HLF APP: HLF APP: HLF</p>



WELL 4 WELL LOCATION & WATER LINE ROUTING EXHIBIT



HAFFERMAN ENGINEERING, INC.
 P.O. BOX 1891
 KALISPELL, MT 59901-1891
 PHONE: 406-257-8708
 FAX: 406-257-8710
 EMAIL: info@billmayer.com
 ONLINE: www.billmayer.com

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DRAWING TITLE:

TIMBRSHOR WELL 4 PROTECTION ZONE

FOR

TIMBRSHOR HOA

SECTION 7

T23N, R 19W, PM, M., LAKE COUNTY, MONTANA

DATE:
OCT. 25 2019

PROJECT NUMBER:
T.58.2

SCALE:
AS SHOWN

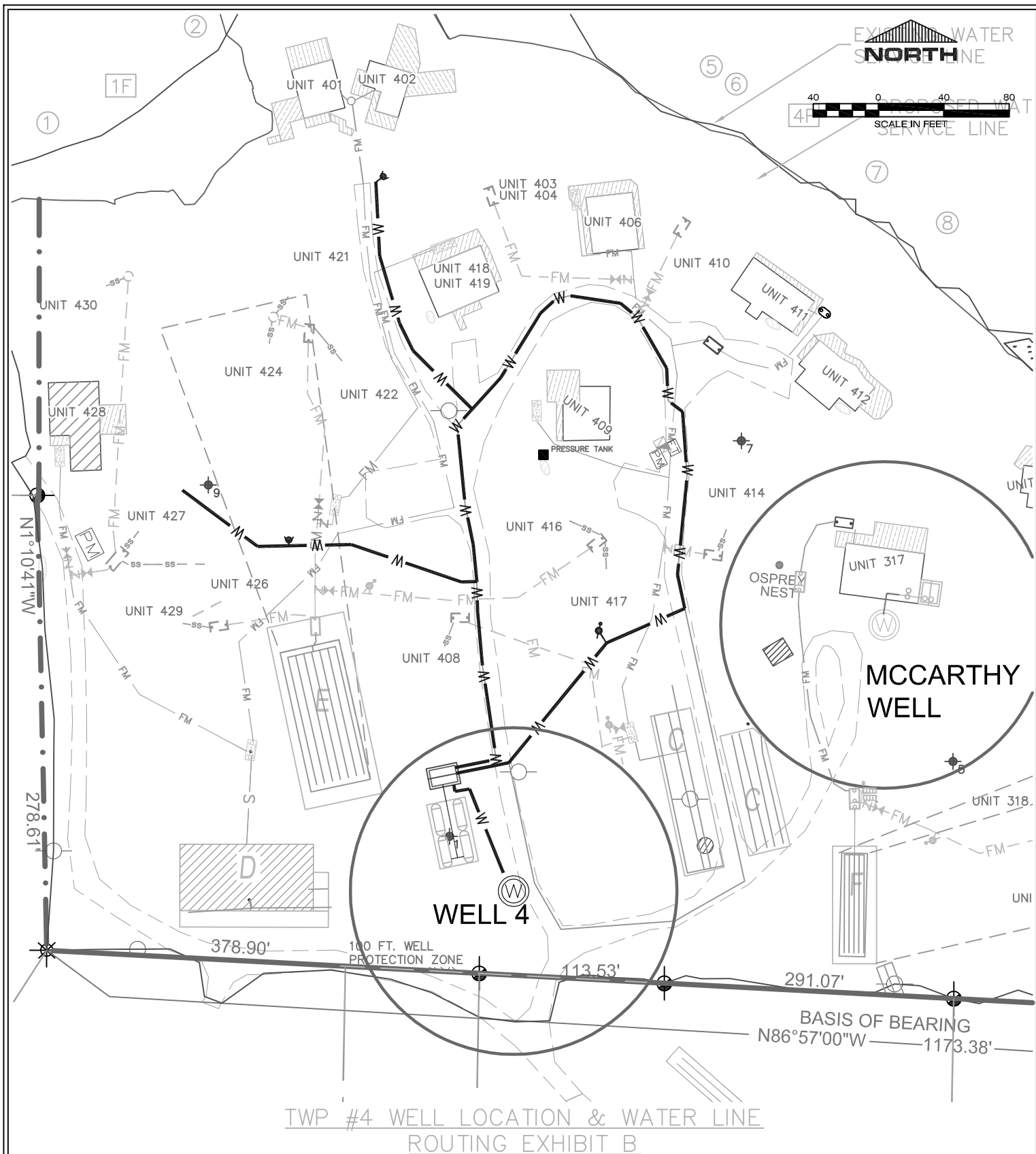
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DRAWN BY:
NJF

APPROVED BY:
KMH

1 OF 1

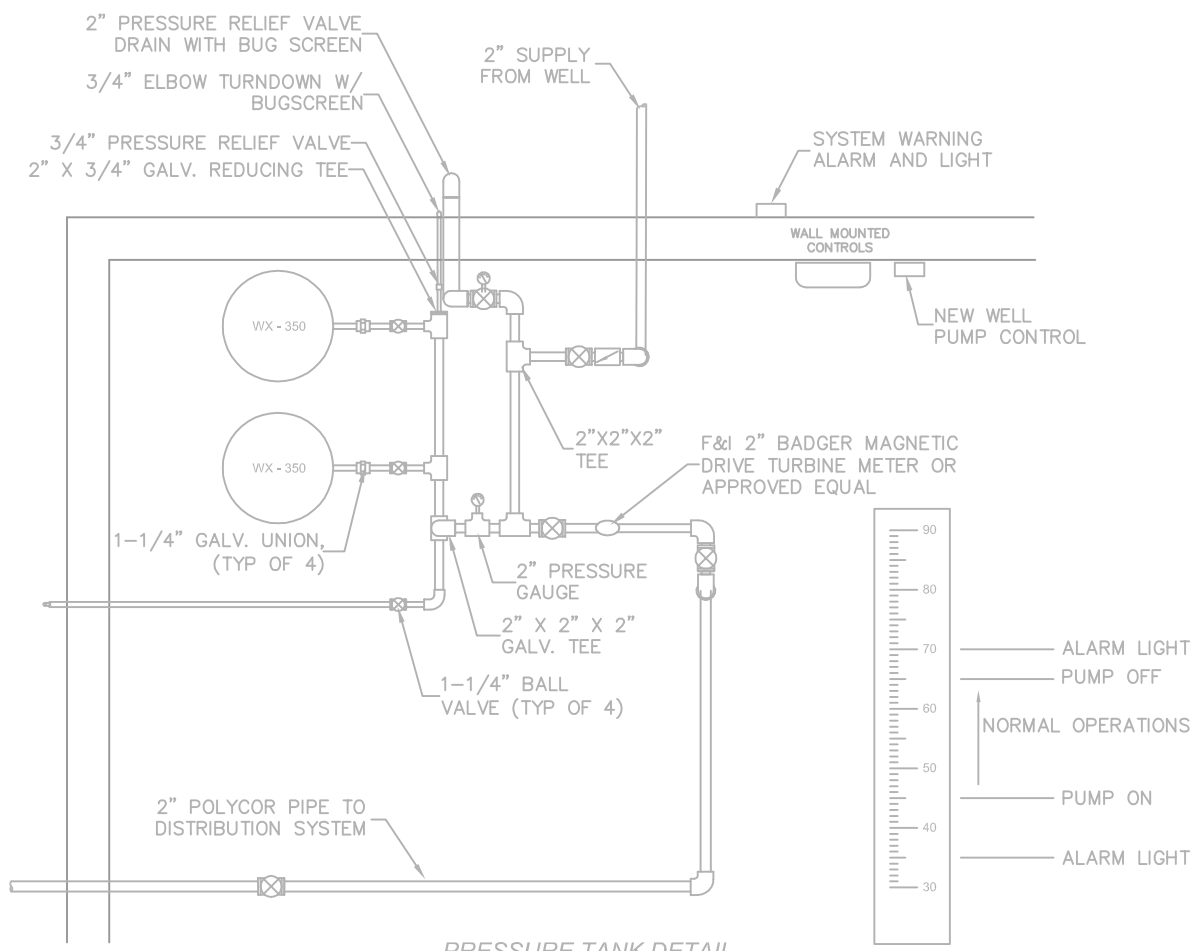


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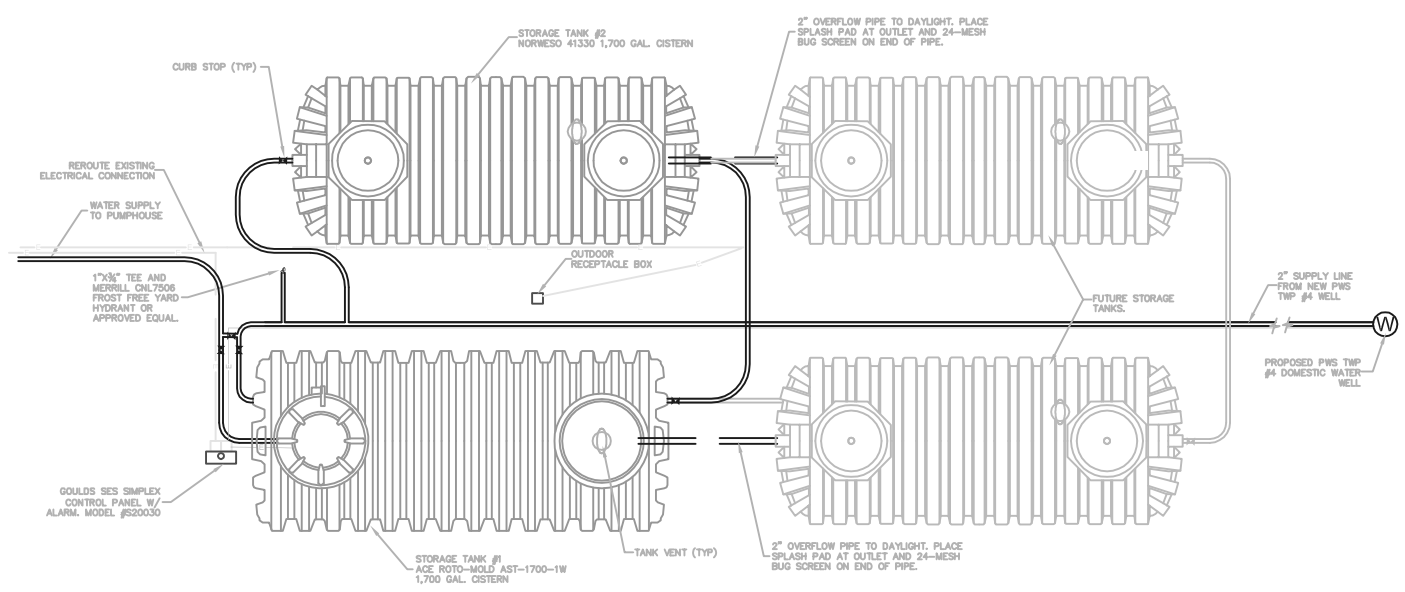
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DRAWING TITLE:
TIMBRSHOR WELL #4 PROTECTION ZONE
 FOR
TIMBRSHOR HOA
 SECTION 7
 T23N, R 19W, PM, M., LAKE COUNTY, MONTANA

DATE: NOV 19, 2018	PROJECT NUMBER: T.58.2	SCALE: AS SHOWN	SHEET: 2 OF 4
FILE LOCATION: S:\LAND PRO...T.58.2\DWG	DRAWN BY: NJF	APPROVED BY: KMH	



PRESSURE TANK DETAIL
NTS



WATER STORAGE LAYOUT DETAIL
NTS

WELL 4 EQUIPMENT ROOM DETAIL EXHIBIT



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DRAWING TITLE:
WELL 4 STORAGE AND PIPING DETAILS
FOR
TIMBRSHOR HOA

SECTION 7
T23N, R 19W, PM, M., LAKE COUNTY, MONTANA

DATE: NOV 19, 2018	PROJECT NUMBER: T.58.2	SCALE: AS SHOWN	SHEET: 3 OF 4
FILE LOCATION: S:\LAND PRO...T.58.2\DWG	DRAWN BY: NJF	APPROVED BY: KMH	

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Metcalf Building 1520 East Sixth Avenue P.O. Box 200901 Helena, MT 59620-0901

PRELIMINARY ASSESSMENT WORKSHEET

Preliminary Assessment of Ground Water Sources that may be Under the Direct Influence of Surface Water

PWS System and Source Facility Information			
PWS Name:	TIMBERSHOR SUBDIVISION PWS	PWS ID#: <small>(MT000nnnn)</small>	
Type (C, NTNC, NC):	TNC	County:	LAKE
Source Facility Name:	THOA WELL 5	SDWIS Facility ID: <small>(WL00n,SP00n,IG00n)</small>	Population Served: 15
		Date: <small>(m/d/yy)</small>	10/25/19

COMPUTE PA SCORE	Mark (X) ONE option that applies and enter option index pts at right	Points
A. TYPE OF STRUCTURE		
Spring (40) ___	Horizontal Well (40) ___	Well (0) <u>X</u>
B. HISTORICAL PATHOGENIC ORGANISM CONTAMINATION: History or suspected outbreak of Giardia, or other pathogenic organisms associated with surface water, with current system configuration.		
Yes (40) ___	No (0) <u>X</u>	<u>0</u>
C. HISTORICAL MICROBIOLOGICAL CONTAMINATION:		
I) Record of acute (boil order or fecal positive sample) MCL violations of the Total Coliform Rule during the last 3 years. Number of violations:		
None (0) <u>X</u>	One (5) ___	Two (10) ___
		Three (15) ___
II) Record of non-acute (two coliform positive samples in one month) MCL violations of the Total Coliform Rule during the last 3 years. Number of violations:		
None or One (0) <u>X</u>	Two (5) ___	Three (10) ___
		Turbidity Complaints (DEQ verified) (5) ___
D. HYDROLOGICAL FEATURES: Horizontal distance between surface water & source.		
> 250 ft (0) <u>450</u>	175 - 250 ft (10) ___	100 - 174 ft (20) ___
		< 100 ft (40) ___
E. WELL SEAL: Poorly constructed well (uncased, or annular space not sealed to depth of at least 18 feet below land surface), or casing construction is unknown.		
Yes (15) ___	No (0) <u>X</u>	
F. WELL INTAKE CONSTRUCTION: In wells tapping unconfined or semi-confined aquifers, the depth below land surface to top of perforated interval or screen is:		
>100 ft (0) <u>X</u>	50-100 ft (5) ___	25-49 ft (10) ___
		0-24 ft (15) ___
		Unkn (15) ___
G. STATIC WATER LEVEL: In wells tapping unconfined or semi-confined aquifers, the depth to static water level below land surface is:		
>100 ft (0) ___	50-100 ft (5) <u>80</u>	25-49 ft (10) ___
		0-24 ft (15) ___
		Unkn (15) ___
H. WELL CAP CONSTRUCTION: Poor sanitary seal, or seal without acceptable material.		
Yes (15) ___	No (0) <u>X</u>	
TOTAL PA SCORE (Right click in cell to right and select Update Field.)		<u>5</u>

Continued other side ...

PRELIMINARY ASSESSMENT WORKSHEET (continued)

I. PRELIMINARY ASSESSMENT DETERMINATION	Mark (X) ONE
1. PASS: Source is not under the direct influence of surface water.	X
2. FAIL: Well must undergo further GWUDISW analysis.	—
3. FAIL: Spring, must undergo further GWUDISW analysis.	—
4. FAIL: Well or horizontal well less than 100 feet from surface water, must undergo further GWUDISW analysis.	—
5. FAIL: Well will PASS if well construction deficiencies (section E or F) are repaired.	—
6. FAIL: Well may PASS if well construction details (section E, F, or G) become available.	—

ANALYST INFORMATION AND COMMENTS	
NAME:	KURTIS M. HAFFERMAN P.E. - HAFFERMAN ENGINEERING
AFFILIATION:	THOA PROJECT ENGINEER
COMMENTS	
<p>WELL 5 DEVELOPMENT IS BASED ON A INTERPOLATION BETWEEN TWO NEARBY WELLS BASED ON DISTANCE AND ELEVATION. THE WELLS ARE THE RICHARD CANNON, GWIC WELL LOG 77517 AND THE LAURRY BISHOP WELL LOG, GWIC 168825 . THE CANNON WELL WAS DRILLED BY LIBERTY DRILLING, ONE OF THE MORE REPUTABLE DRILLING OPERATIONS IN THE AREA SO THE WELL LOG IS ASSUMED TO BE ACCURATE. THE BISHOP WELL WAS DRILL BY CASTILO DRILLING, ANOTHER LOCAL, LONG STANDING DRILLER WITH A GOOD REPUTATION AND THE WELL LOG IS ASSUMED TO BE ACCURATE.</p> <p>GROUNDWATER IN CANNON WAS ENCOUNTERED NEAR 403 FT. BGS AND THE STATIC WATER LEVEL IS 98 FT BGS. GROUNDWATER IN BISHOP WAS ENCOUNTERED AT 110 FT. BGS AND THE SWL IS 55 FT BGS. BECAUSE OF THE LACK OF WATER BEARING LAYERS UNTIL ENCOUNTERING WATER, WELL BELOW GROUND SURFACE, IT IS ASSUMED THE AQUIFER IS CONFINED UNDER NUMEROUS OVER LAYING BEDROCK LAYERS. GROUNDWATER IN WELL 5 IS ANTICIPATED TO BE NEAR TO 80 FT BGS WITH A TOTAL DEPTH NEAR TO 182 FT BGS.</p> <p>WATER QUALITY WAS TESTED IN THE CANNON WELL ON NOVEMEBR 2015 AND THE NITRATE CONCENTRATION WAS 0.13 MG/L.</p> <p>THE WELL CONTROL ZONE FOR WELL 5 CROSSES ONTO A NEIGHBORING PROPERTY. THE SOUTH NEIGHBOR TIM AND KIRSTEN ROSE, REFUSED TO SIGN THE WCZ AGREEMENT. A DEVIATION FROM THE FULL 100 FT. WCZ IS REQUESTED. THE PROPOSED DEVIATION IS ATTACHED. PLANS AND SPECIFICATIONS FOR THE WELL CONSTRUCTION TO INCLUDE A MANMADE BARRIER OF NEAT CEMENT GROUT IS ALSO ATTACHED.</p>	

Electronic Entry Instructions: Open the WORD document template (DOT) as a WORD document (DOC) with an appropriate name and location. The document is protected from all edits other than form entry. Enter the requested information in the form fields and tab forward between fields. All character entries will be converted to upper case. In the Compute PA Score table for questions A through H, mark with an X the one option which applies to each, then enter the score corresponding to that option in the field to the right under the Points column. When scores A-H have been entered right click on the Total PA Score field and select Update Field. The total score will be computed. Select the PA Determination option by marking with an X. Fill out the Analyst Information and Comments table. Save the document with your entries.



PUBLIC WATER SUPPLY DEVIATION REQUEST

Project Name: Timbrshor Subdivision Well 5

EQ

Engineer Name: Kurtis M. Hafferman, P.E.

Circular: DEQ-3 Standards for Small Water Systems

STANDARD: EXISTING STANDARD: Circular DEQ -3 Standards for Small Water Systems, August 8, 2014 Edition,

Chapter 3 – Source Development, 3.2.3.2 Continued protection, Continued protection of the well site from potential sources of contamination must be provided either through zoning, easements, deed notices, leasing, or other means acceptable to MDEQ. Easements and deed notices must be filed with the County Clerk and Records Office. Such protection must extend for at least 100-foot radius around the well (well isolation zone). In addition, separation distances between proposed wells and potential sources of contamination must be defined and justified by the applicant in accordance with Section 1.1.6 of this circular. The well isolation zone of a proposed or existing well may not be in a groundwater mixing zone as defined by ARM 17.30.517 and also may not include easements that would conflict with the proposed use. Fencing of the site may be required by MDEQ.

PROPOSED STANDARD:

Chapter 3 – Source Development, Section 3.2.3.2 Continued Protection

3.2.3.2 Continued protection of the well site from potential sources of contamination must be provided either through zoning, easements, deed notices, leasing, or other means acceptable to MDEQ. Easements and deed notices must be filed with the County Clerk and Records Office. Such protection, *where possible*, must extend for at least 100-foot radius around the well (well isolation zone). In addition, separation distances between proposed wells and potential sources of contamination must be defined and justified by the applicant in accordance with Section 1.1.6 of this circular. The well isolation zone of a proposed or existing well may not be in a groundwater mixing zone as defined by ARM 17.30.517 and also may not include easements that would conflict with the proposed use. Fencing of the site may be required by MDEQ.

3.2.3.2.1 Exceptions; when a new well is proposed and when the MDEQ has been consulted about well locations and the well isolation zone extends beyond the property-line on which the well is proposed, a deviation from Chapter 3 Source Development, Section 3.2.3.2 Continued Protection, can be granted to the required 100-foot radius well protection zone and/or the configuration of the zone if;

1. The proposed well location has been approved by MDEQ,
2. There are no sources of potential contamination; sewer lines, septic tanks, drain fields, mixing zones, holding tanks, and any structures used to convey or retain industrial, storm, or sanitary waste, state or federal highway rights-of-way, and any other sources of potential contamination as described in Chapter 3 Source Development, Section 1.1.6 (d) within the well isolation zone,
3. The well lies up-gradient from that portion of the well isolation zone in which the deviation is being requested, And
4. All efforts to change zoning, acquire an easement, deed notice, lease or other means acceptable by MDEQ have been exhausted and no agreement can be reached with the owners of the property(s) impacted by the well isolation zone of the proposed well.

JUSTIFICATION: *attach additional information as necessary*

The Timbrshor Subdivision has been determined to have 13 existing units that are using water from a COSA non-compliant water system. During development from 1977 until 2009, units could be constructed within the Timbrshor Subdivision and were not prevented from installing COSA non-compliant individual or multi-user surface water diversions from Flathead Lake for domestic water use. In 2003 Lake County informed the developer, Borchers of Finley Point and the Timbrshor Subdivision Homeowners Association (THOA) that new unit construction would not be permitted until a COSA compliant wastewater treatment system (WWTS) was installed. The County acknowledged that there was also a COSA non-complaint water system that was installed but, acknowledging that any issues with water rights associated to subdivision would be involved in the CSKT water right compact, instructed the developer and the THOA to proceed with the WWTS plans, approvals and construction.

As soon as the costs of the WWTS were known and assessed, the developer filed for bankruptcy and the Timbrshor

Homeowners Association (THOA) was the only party left to resolve the issues with a COSA non-compliant WWTS and water system. As the remaining owners, the THOA were immediately incumbered with not only the regulatory responsibility but a substantial financial responsibility to correct the developers COSA violations. Between 2013 and 2016 the THOA spent over \$550,000 to address the more urgent of the health issues by completing the WWTS.

When the record drawings were filed in 2016 at Lake County, the THOA requested the County lift the building moratorium. The County contacted the DEQ who then informed the THOA that new unit construction would not be allowed until final approval of a COSA complaint water system. The THOA met with the DEQ, developed a plan that would more likely than not meet both the DNRC water right and DEQ regulations and the THOA water requirements. The THOA has retained Hafferman Engineering, Inc. and is now in the process of developing the plans and specifications for a transient non-community, multi-user, multiple groundwater well, domestic water supply and distribution system.

The THOA are again the parties affected by the building moratorium, and again are immediately incumbered with the financial responsibility to correct the developers COSA violations. The THOA is financially incumbered and cannot raise enough additional funds to afford the community surface water system contemplated in the original COSA, nor can they afford the extravagance of a dual well and storage system given the extreme difficulty to trench and bury water lines. HEI has had numerous conversations with MDEQ's Kalispell office with Emily Gillespie P.E. The general discussion was this well could be pursued for an individual, shared, multi-user or public well (using standard submittal process).

There are no known sources of contamination on the neighboring property; septic systems, mixing zones, wastewater disposal systems, sewer lines, holding tanks, lift stations, French drains, class V injection wells, or any structures used to convey or retain industrial, storm or sanitary waste, within the well isolation zone for the proposed Well 5 well and the well lays up-gradient from the adjacent property to be impacted by the isolation zone. The area of the well isolation zone on the adjoining property is on the road, Snowberry Lane or the Timbrshor access road and cannot be otherwise used or developed.

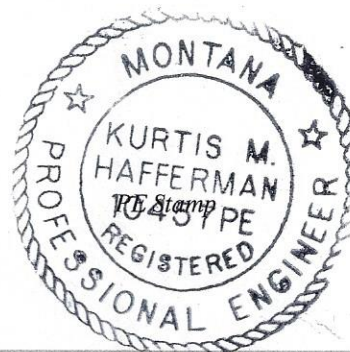
Approximately 10% of the Well 5 well isolation zone extends into the property of who's legal description is Finley Point Villa Site, Finley Point Villa Site, S07, T23 N, R19 W, Block 006, Lot 001, lake County, Montana. This property is owned by Timothy L. and Kristen R. Rose. After numerous attempts to negotiate a well control zone agreement with Mr. and Mrs. Rose to allow the well isolation zone to encroach onto the property, the Rose's have rejected all offers and therefore a deviation from 3.2.3.2 is necessary in order to proceed.

In accordance with ARM 17.38.101 (e), I certify that strict adherence to the above standard is not necessary to protect public health and the quality of state waters.


(Signature of Professional Engineer)

10-30-2019
(Date Signed)

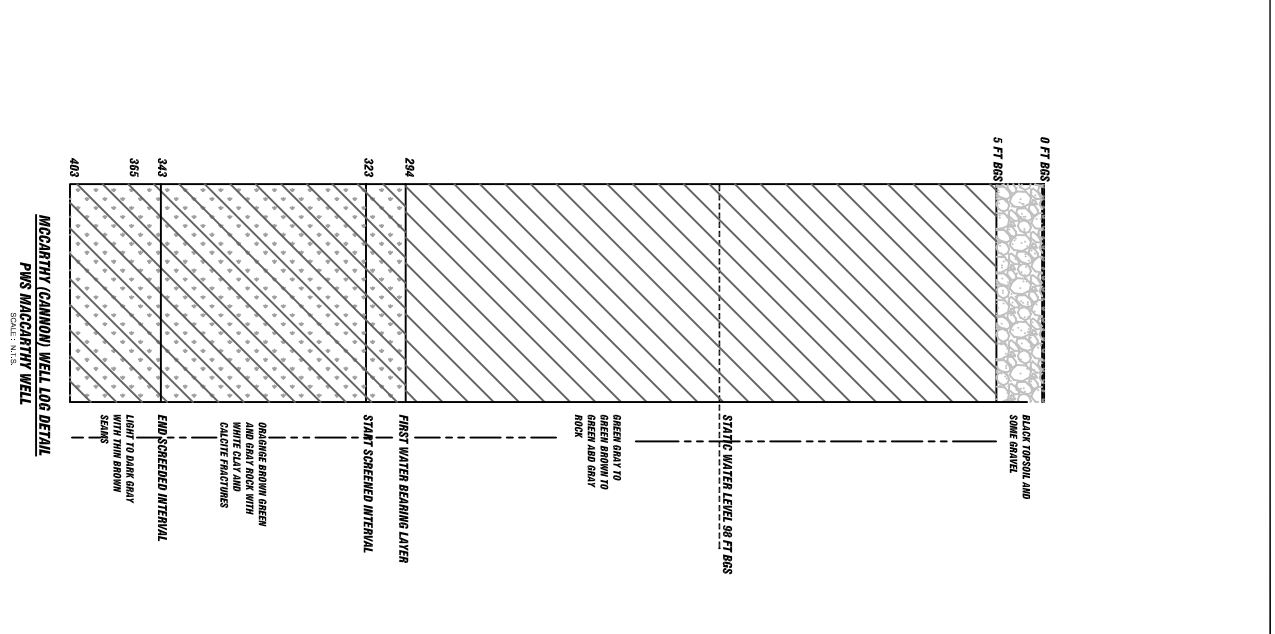
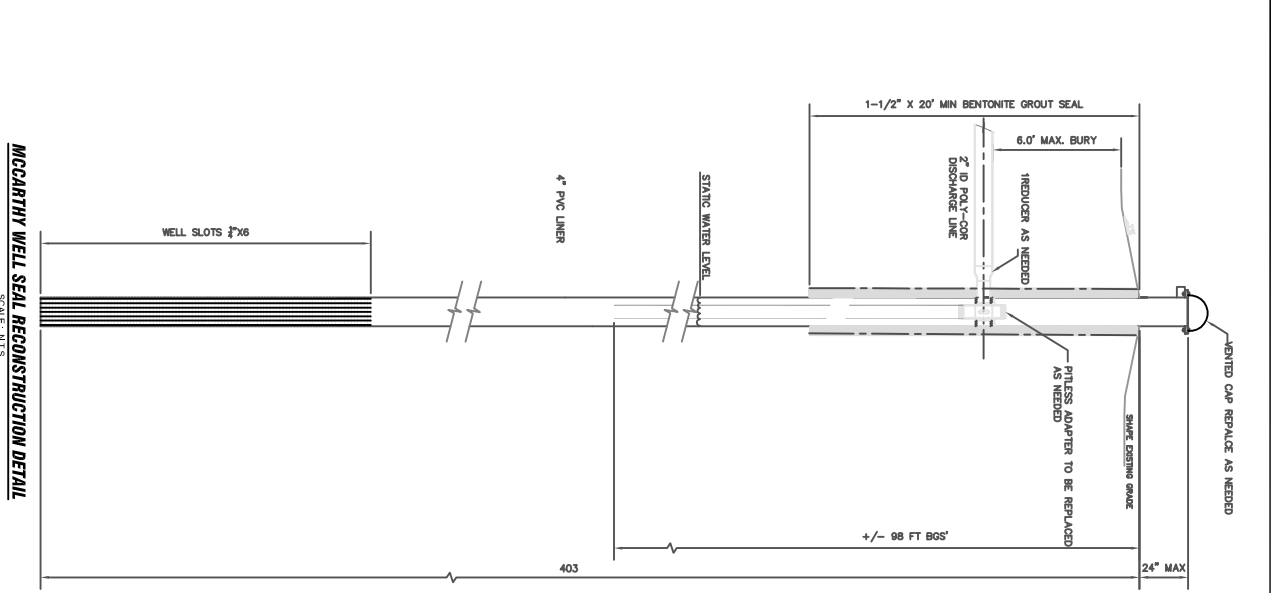
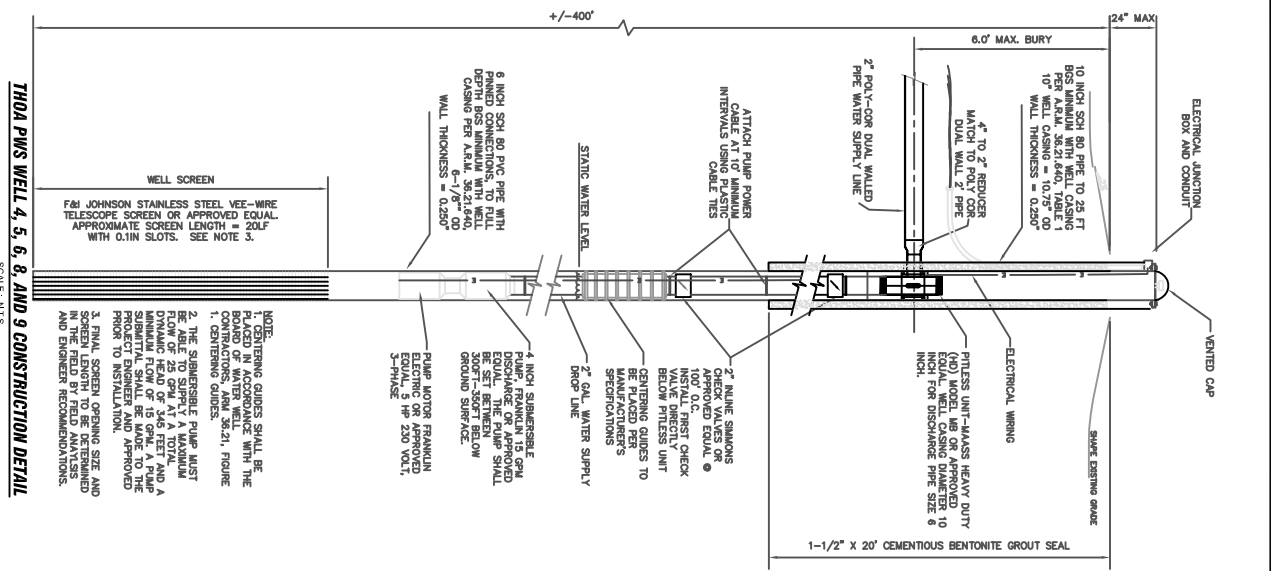
Montana P.E. Number PEL-PE-LIC-10457



For Department Use Only:

Review Engineer's Recommendation:

[Redacted area for Department Use Only]



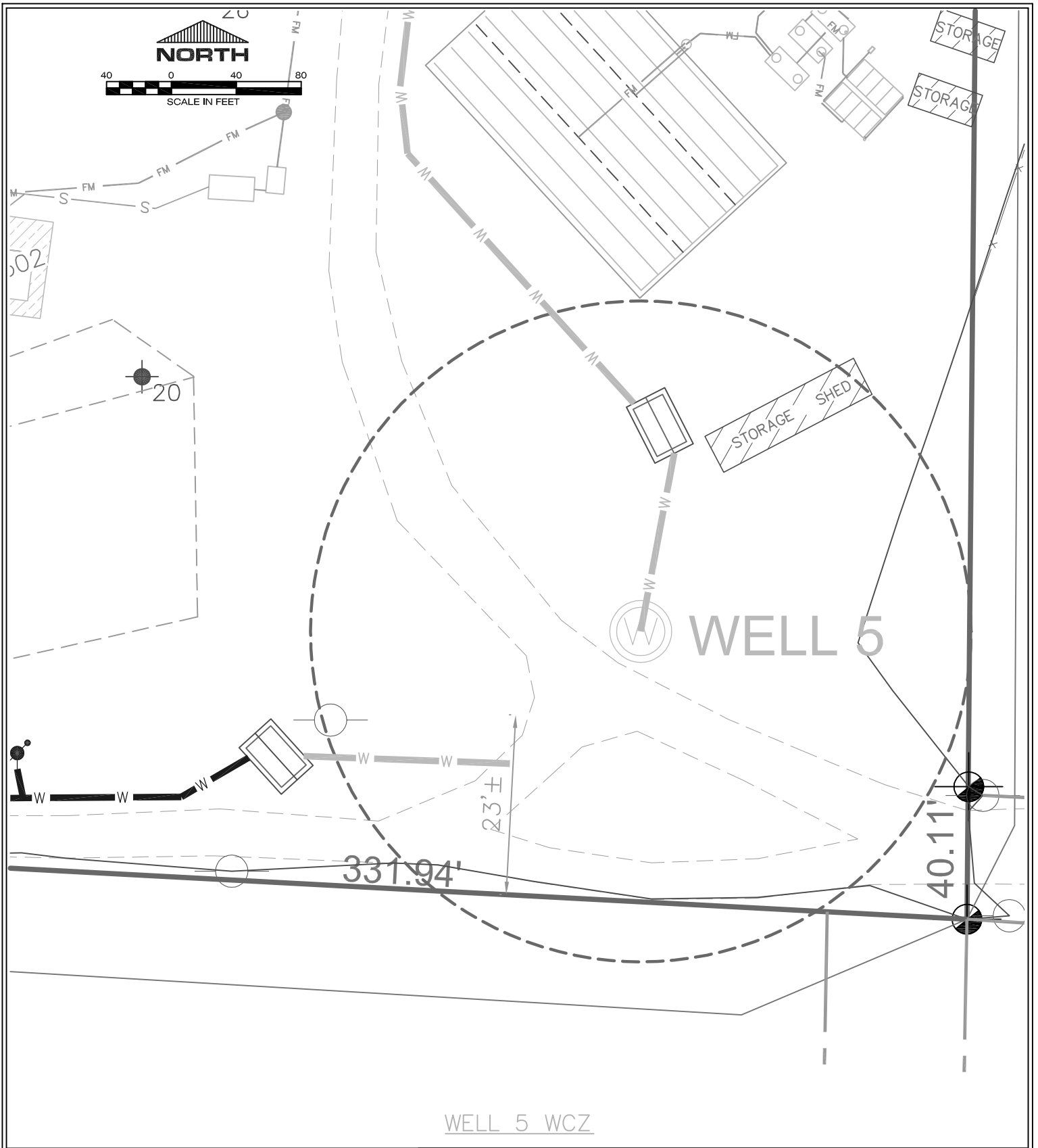
DATE	DESCRIPTION	BY
10/17/19	DRAFT DESIGN DRAWINGS	HLF
10/23/19	DRAFT CONSTRUCTION	HLF
10/29/19	PITLESS AND WATER LINES	HLF
11/24/19	RE-DESIGNED FOR REVIEW	HLF
10/30/19	SUBMITTAL	HLF

<p>THORNTON ENGINEERING, INC. 400 N. GARDEN AVENUE SUITE 100 BOZEMAN, MONTANA 59717 TEL: 406.552.2200 FAX: 406.552.2201 WWW.TEENGINEERING.COM</p>	<p>HARTMANN ENGINEERING, INC. 400 N. GARDEN AVENUE SUITE 100 BOZEMAN, MONTANA 59717 TEL: 406.552.2200 FAX: 406.552.2201 WWW.HARTMANNEENGINEERING.COM</p>
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<p>DATE: 10/23/19 DRAWN BY: HLF CHECKED BY: HLF SCALE: AS SHOWN PROJECT: THOA PWS WELL 4, 5, 6, 8, AND 9 CONSTRUCTION DETAIL DRAWING NUMBER: 10 OF 1</p>	<p>SCALE: AS SHOWN PROJECT: THOA PWS WELL 4, 5, 6, 8, AND 9 CONSTRUCTION DETAIL DRAWING NUMBER: 10 OF 1</p>
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TIMBRSHOR HOA
WATER SYSTEM IMPROVEMENTS
 FOR
THE TIMBRSHOR HOA

SECTION 7, T.23N, R.19W, P.3M, FLATHEAD COUNTY, MONTANA



HAFFERMAN ENGINEERING, INC.
 P.O. BOX 1891
 KALISPELL, MT 59901-1891
 PHONE: 406-257-8708
 FAX: 406-257-8710
 EMAIL: info@billmayer.com
 ONLINE: www.billmayer.com

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DRAWING TITLE:
TIMBERSHOR WELL 5 PROTECTION ZONE
 FOR
TIMBRSHOR HOA
 SECTION 7
 T23N, R 19W, PM, M., LAKE COUNTY, MONTANA

DATE: DEC 7, 2018	PROJECT NUMBER: T.58.2	SCALE: AS SHOWN	SHEET: 2 OF 2
FILE LOCATION: S:\LAND PRO...T.58.2\DWG	DRAWN BY: NJF	APPROVED BY: KMH	

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Metcalf Building 1520 East Sixth Avenue P.O. Box 200901 Helena, MT 59620-0901

PRELIMINARY ASSESSMENT WORKSHEET

Preliminary Assessment of Ground Water Sources that may be Under the Direct Influence of Surface Water

PWS System and Source Facility Information			
PWS Name:	TIMBERSHOR SUBDIVISION PWS	PWS ID#: <small>(MT000nnnn)</small>	
Type (C, NTNC, NC):	TNC	County:	LAKE
Source Facility Name:	THOA WELL 6	SDWIS Facility ID: <small>(WL00n,SP00n,IG00n)</small>	Population Served: 20
		Date: <small>(m/d/yy)</small>	8/5/2019

COMPUTE PA SCORE Mark (X) ONE option that applies and enter option index pts at right	Points
A. TYPE OF STRUCTURE	
Spring (40) ___ Horizontal Well (40) ___ Well (0) <u>X</u>	<u>0</u>
B. HISTORICAL PATHOGENIC ORGANISM CONTAMINATION: History or suspected outbreak of Giardia, or other pathogenic organisms associated with surface water, with current system configuration.	
Yes (40) ___ No (0) <u>X</u>	<u>0</u>
C. HISTORICAL MICROBIOLOGICAL CONTAMINATION:	
I) Record of acute (boil order or fecal positive sample) MCL violations of the Total Coliform Rule during the last 3 years. Number of violations:	
None (0) <u>X</u> One (5) ___ Two (10) ___ Three (15) ___	<u>0</u>
II) Record of non-acute (two coliform positive samples in one month) MCL violations of the Total Coliform Rule during the last 3 years. Number of violations:	
None or One (0) <u>X</u> Two (5) ___ Three (10) ___ Turbidity Complaints (DEQ verified) (5) ___	<u>0</u>
D. HYDROLOGICAL FEATURES: Horizontal distance between surface water & source.	
> 250 ft (0) <u>340</u> 175 - 250 ft (10) ___ 100 - 174 ft (20) ___ < 100 ft (40) ___	<u>0</u>
E. WELL SEAL: Poorly constructed well (uncased, or annular space not sealed to depth of at least 18 feet below land surface), or casing construction is unknown.	
Yes (15) ___ No (0) <u>X</u>	<u>0</u>
F. WELL INTAKE CONSTRUCTION: In wells tapping unconfined or semi-confined aquifers, the depth below land surface to top of perforated interval or screen is:	
>100 ft (0) <u>X</u> 50-100 ft (5) ___ 25-49 ft (10) ___ 0-24 ft (15) ___ Unkn (15) ___	<u>0</u>
G. STATIC WATER LEVEL: In wells tapping unconfined or semi-confined aquifers, the depth to static water level below land surface is:	
>100 ft (0) ___ 50-100 ft (5) <u>55</u> 25-49 ft (10) ___ 0-24 ft (15) ___ Unkn (15) ___	<u>5</u>
H. WELL CAP CONSTRUCTION: Poor sanitary seal, or seal without acceptable material.	
Yes (15) ___ No (0) <u>X</u>	<u>0</u>
TOTAL PA SCORE (Right click in cell to right and select Update Field.)	<u>5</u>

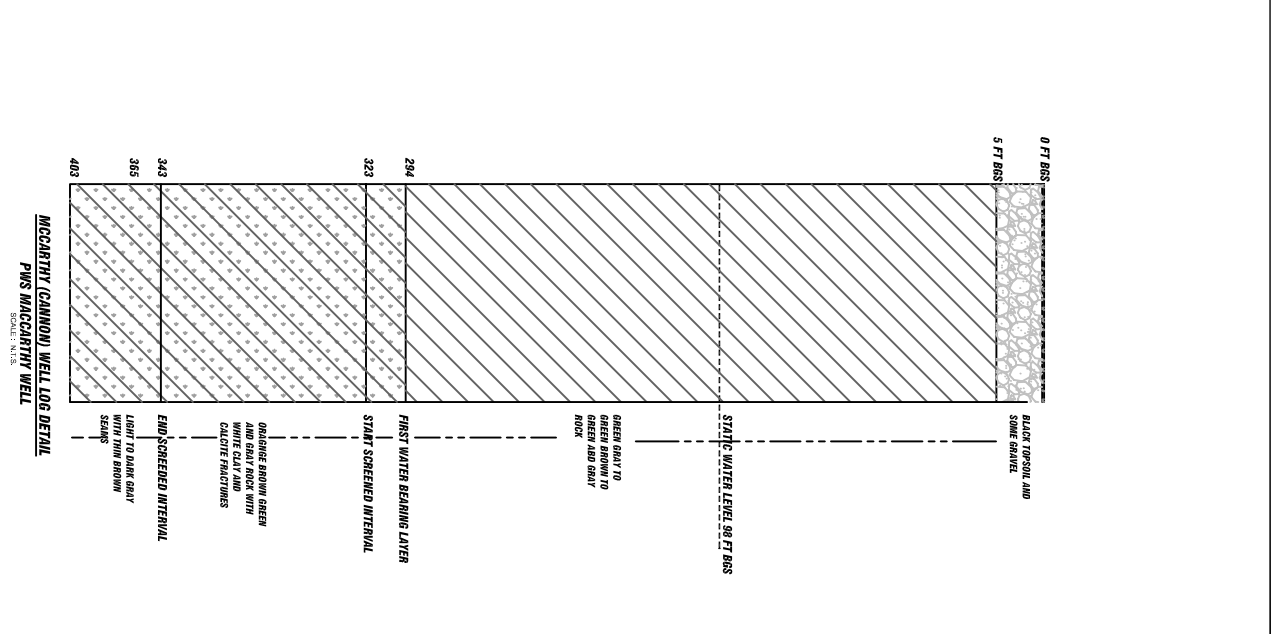
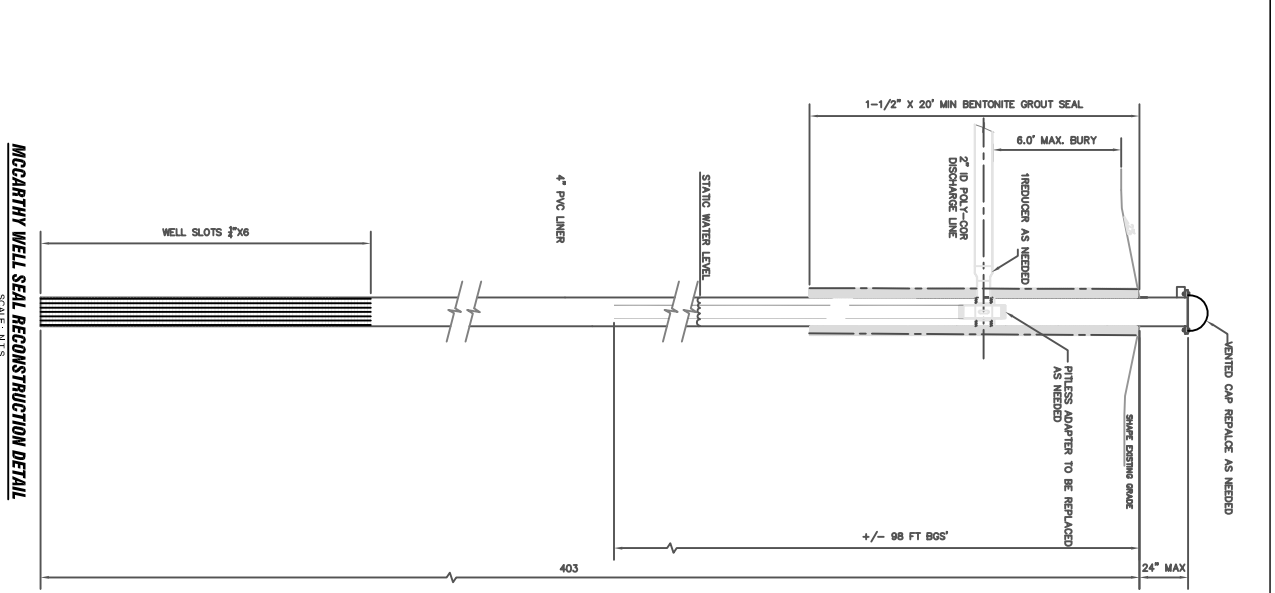
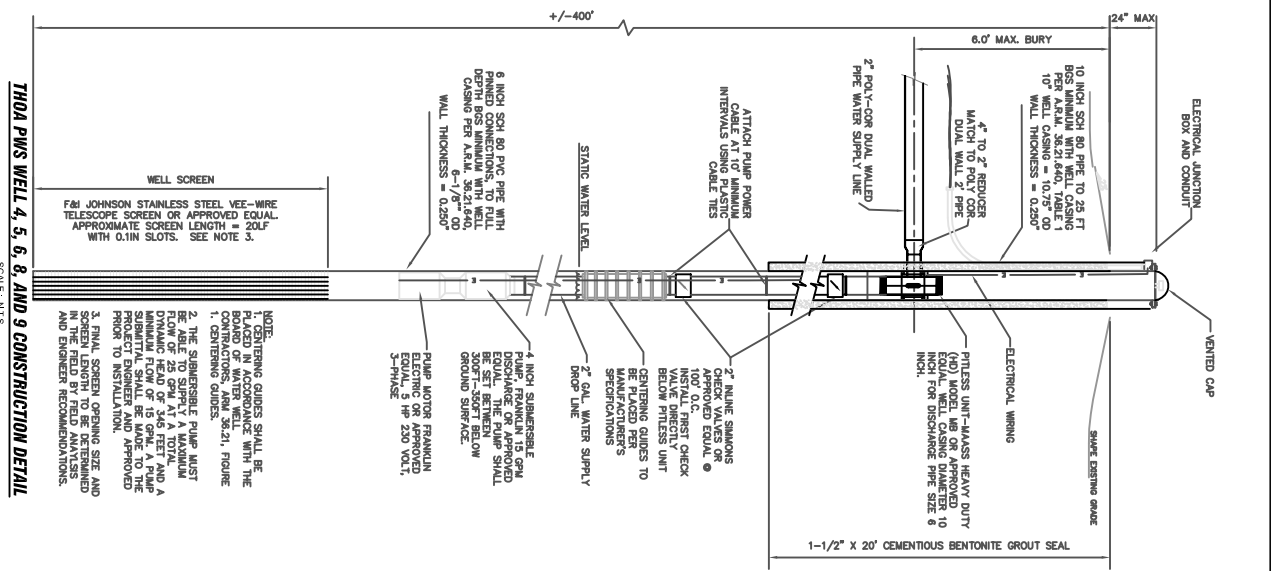
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PRELIMINARY ASSESSMENT WORKSHEET (continued)

I. PRELIMINARY ASSESSMENT DETERMINATION	Mark (X) ONE
1. PASS: Source is not under the direct influence of surface water.	X
2. FAIL: Well must undergo further GWUDISW analysis.	—
3. FAIL: Spring, must undergo further GWUDISW analysis.	—
4. FAIL: Well or horizontal well less than 100 feet from surface water, must undergo further GWUDISW analysis.	—
5. FAIL: Well will PASS if well construction deficiencies (section E or F) are repaired.	—
6. FAIL: Well may PASS if well construction details (section E, F, or G) become available.	—

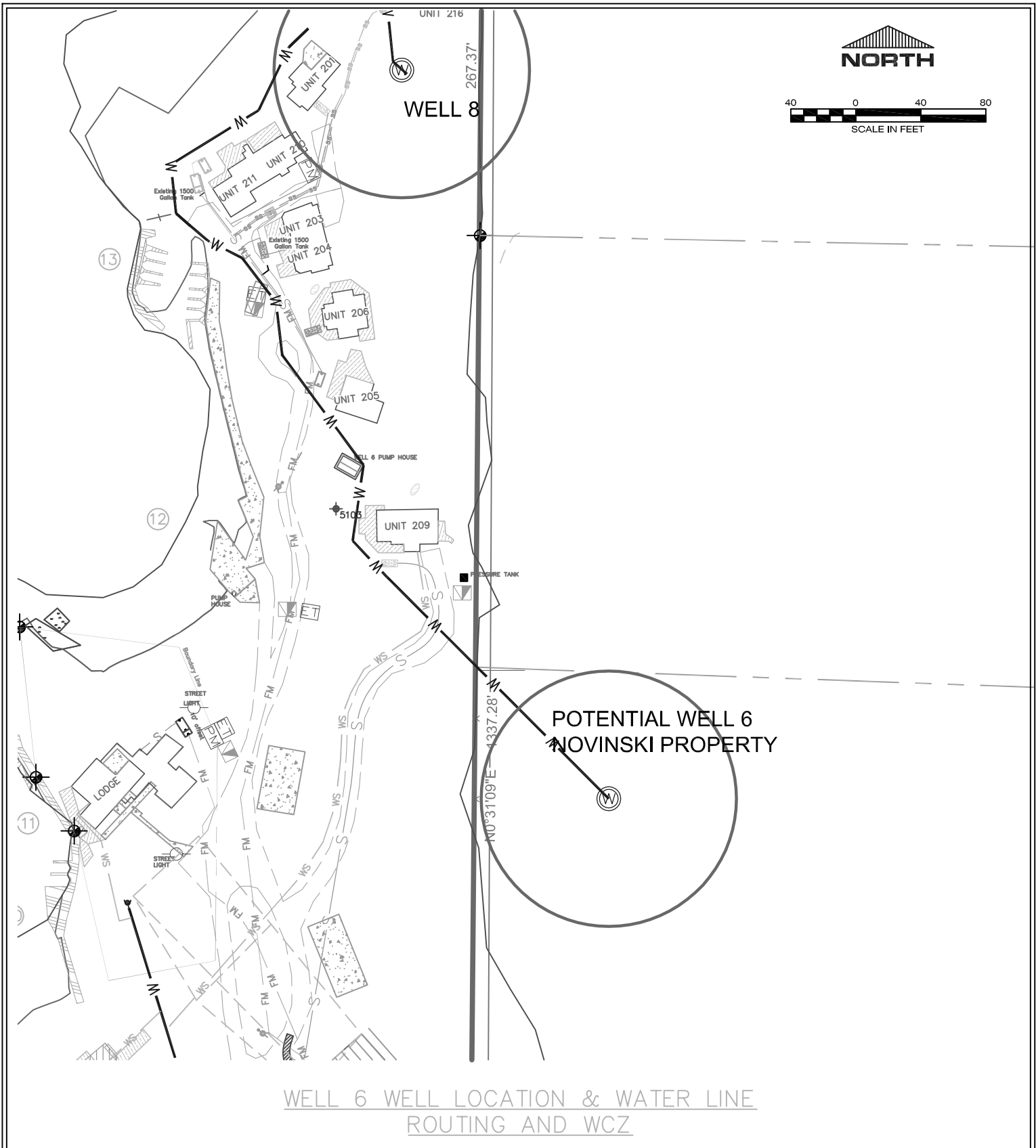
ANALYST INFORMATION AND COMMENTS	
NAME:	KURTIS M. HAFFERMAN P.E. - HAFFERMAN ENGINEERING
AFFILIATION:	THOA PROJECT ENGINEER
COMMENTS	
<p>WELL 6 DEVELOPMENT IS BASED ON A INTERPOLATION OF THE NEARBY LAURRY BISHOP WELL LOG, GWIC 168825 . THE BISHOP WELL WAS DRILL BY CASTILO DRILLING, ANOTHER LOCAL, LONG STANDING DRILLER WITH A GOOD REPUTATION AND THE WELL LOG IS ASSUMED TO BE ACCURATE.</p> <p>GROUNDWATER IN BISHOP WAS ENCOUNTERED AT 110 FT. BGS AND THE SWL IS 55 FT BGS. BECAUSE OF THE LACK OF WATER BEARING LAYERS UNTIL ENCOUNTERING WATER, WELL BELOW GROUND SURFACE, IT IS ASSUMED THE AQUIFER IS CONFINED UNDER NUMEROUS OVER LAYING BEDROCK LAYERS. GROUNDWATER IN WELL 6 IS ANTICIPATED TO BE NEAR TO 50 FT BGS WITH A TOTAL DEPTH NEAR TO 115 FT BGS.</p> <p>WATER QUALITY WAS TESTED IN THE CANNON WELL ON NOVEMEBR 2015 AND THE NITRATE CONCENTRATION WAS 0.13 MG/L. THE BISHOP WELL IS ANTICIPATED TO HAVE NEARLY THE SAME WATER QUALITY.</p> <p>THE WELL CONTROL ZONE FOR WELL 5 IS ENTIRLEY CONTAINED ON THE NOVISNSKI PROPERTY. NOVINSKI HAS AGREED TO A WCZ, AN EASMENT AND RIGHT OF WAY FOR ACCESS. PLANS AND SPECIFICATIONS FOR THE WELL CONSTRUCTION TO INCLUDE A STANDARD BENTONTITE GROUT IS ALSO ATTACHED.</p>	

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DATE	DESCRIPTION	BY
10/17/19	DRAFT DESIGN DRAWINGS	HLF
10/23/19	DRAFT CONSTRUCTION	HLF
10/29/19	PITLERS AND WATER LINES	HLF
11/24/19	TO BE ISSUED FOR REVIEW	HLF
10/30/19	SUBMITTAL	HLF

<p>THORSHOR HOA WATER SYSTEM IMPROVEMENTS FOR THE THORSHOR HOA</p>	<p>DATE: 10/23/19 DRAWING NUMBER: 10 OF 1 PROJECT: PWS WELL 4, 5, 6, 8, AND 9 CONSTRUCTION DETAIL</p>
----------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------



WELL 6 WELL LOCATION & WATER LINE ROUTING AND WCZ



HAFFERMAN ENGINEERING, INC.
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 KALISPELL, MT 59901-1891
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DRAWING TITLE:
TIMBRSHOR WELL 6 PROTECTION ZONE
 FOR
TIMBRSHOR HOA
 SECTION 7
 T23N, R 19W, PM, M., LAKE COUNTY, MONTANA

DATE: DEC 6, 2018	PROJECT NUMBER: T.58.2	SCALE: AS SHOWN	SHEET: 2 OF 2
FILE LOCATION: S:\LAND PRO...T.58.2\DWG	DRAWN BY: NJF	APPROVED BY: KMH	

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Metcalf Building 1520 East Sixth Avenue P.O. Box 200901 Helena, MT 59620-0901

PRELIMINARY ASSESSMENT WORKSHEET

Preliminary Assessment of Ground Water Sources that may be Under the Direct Influence of Surface Water

PWS System and Source Facility Information			
PWS Name:	TIMBERSHOR SUBDIVISION PWS	PWS ID#: <small>(MT000nnnn)</small>	
Type (C, NTNC, NC):	NC	County:	LAKE
Source Facility Name:	THOA WELL 8	SDWIS Facility ID: <small>(WL00n,SP00n,IG00n)</small>	Population Served: 5
		Date: <small>(m/d/yy)</small>	8/5/2019

COMPUTE PA SCORE	Mark (X) ONE option that applies and enter option index pts at right	Points
A. TYPE OF STRUCTURE		
Spring (40) ___	Horizontal Well (40) ___	Well (0) X
B. HISTORICAL PATHOGENIC ORGANISM CONTAMINATION: History or suspected outbreak of Giardia, or other pathogenic organisms associated with surface water, with current system configuration.		
Yes (40) ___	No (0) X	
C. HISTORICAL MICROBIOLOGICAL CONTAMINATION:		
I) Record of acute (boil order or fecal positive sample) MCL violations of the Total Coliform Rule during the last 3 years. Number of violations:		
None (0) X	One (5) ___	Two (10) ___
		Three (15) ___
II) Record of non-acute (two coliform positive samples in one month) MCL violations of the Total Coliform Rule during the last 3 years. Number of violations:		
None or One (0) X	Two (5) ___	Three (10) ___
		Turbidity Complaints (DEQ verified) (5) ___
D. HYDROLOGICAL FEATURES: Horizontal distance between surface water & source.		
> 250 ft (0) ___	175 - 250 ft (10) ___	100 - 174 ft (20) 165
		< 100 ft (40) ___
E. WELL SEAL: Poorly constructed well (uncased, or annular space not sealed to depth of at least 18 feet below land surface), or casing construction is unknown.		
Yes (15) ___	No (0) X	
F. WELL INTAKE CONSTRUCTION: In wells tapping unconfined or semi-confined aquifers, the depth below land surface to top of perforated interval or screen is:		
>100 ft (0) X	50-100 ft (5) ___	25-49 ft (10) ___
		0-24 ft (15) ___
		Unkn (15) ___
G. STATIC WATER LEVEL: In wells tapping unconfined or semi-confined aquifers, the depth to static water level below land surface is:		
>100 ft (0) ___	50-100 ft (5) 57	25-49 ft (10) ___
		0-24 ft (15) ___
		Unkn (15) ___
H. WELL CAP CONSTRUCTION: Poor sanitary seal, or seal without acceptable material.		
Yes (15) ___	No (0) X	
TOTAL PA SCORE (Right click in cell to right and select Update Field.)		<u>25</u>

Continued other side ...

PRELIMINARY ASSESSMENT WORKSHEET (continued)

I. PRELIMINARY ASSESSMENT DETERMINATION	Mark (X) ONE
1. PASS: Source is not under the direct influence of surface water.	X
2. FAIL: Well must undergo further GWUDISW analysis.	—
3. FAIL: Spring, must undergo further GWUDISW analysis.	—
4. FAIL: Well or horizontal well less than 100 feet from surface water, must undergo further GWUDISW analysis.	—
5. FAIL: Well will PASS if well construction deficiencies (section E or F) are repaired.	—
6. FAIL: Well may PASS if well construction details (section E, F, or G) become available.	—

ANALYST INFORMATION AND COMMENTS	
NAME:	KURTIS M. HAFFERMAN P.E. - HAFFERMAN ENGINEERING
AFFILIATION:	PROJECT ENGINEER
COMMENTS	
<p>WELL 8 DEVELOPMENT IS BASED ON A INTERPOLATION OF THE NEARBY LAURRY BISHOP WELL LOG, GWIC 168825 . THE BISHOP WELL WAS DRILL BY CASTILO DRILLING, ANOTHER LOCAL, LONG STANDING DRILLER WITH A GOOD REPUTATION AND THE WELL LOG IS ASSUMED TO BE ACCURATE.</p> <p>GROUNDWATER IN BISHOP WAS ENCOUNTERED AT 110 FT. BGS AND THE SWL IS 55 FT BGS. BECAUSE OF THE LACK OF WATER BEARING LAYERS UNTIL ENCOUNTERING WATER, WELL BELOW GROUND SURFACE, IT IS ASSUMED THE AQUIFER IS CONFINED UNDER NUMEROUS OVER LAYING BEDROCK LAYERS. GROUNDWATER IN WELL 8 IS ANTICIPATED TO BE TOTAL DEPTH NEAR TO 109 FT BGS. WITH A SWL GREAT THAN 50 FT BGS.</p> <p>WATER QUALITY WAS TESTED IN THE CANNON WELL ON NOVEMEBR 2015 AND THE NITRATE CONCENTRATION WAS 0.13 MG/L. THE BISHOP WELL IS ANTICIPATED TO HAVE NEARLY THE SAME WATER QUALITY AND IT IS ASSUMED TO BE THE SAME IN WELL 8.</p> <p>THE WELL CONTROL ZONE FOR WELL 8 CROSSES ONTO A NEIGHBORING PROPERTY. THE SOUTH NEIGHBOR RANDA MCALPIN, REFUSED TO SIGN THE WCZ AGREEMENT. A DEVIATION FROM THE FULL 100 FT. WCZ IS REQUESTED. THE PROPOSED DEVIATION IS ATTACHED. THERE WILL BE 2- CONNECTIONS PROPOSED FOR THIS WELL SO THIS WELL IS ANTICIPATED TO BE A SHARED WELL. THERE IS TWO (2) SEPTIC TANKS AND EFFLUENT LINES WITHIN 84 FT. OF THE WELL. A DEVIATION FROM SEALED COMPONENTS IN THE WCZ IN ATTACHED. PLANS AND SPECIFICATIONS FOR THE WELL CONSTRUCTION TO INCLUDE A MANMADE BARRIER OF NEAT CEMENT GROUT IS ALSO ATTACHED.</p>	

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PUBLIC WATER SUPPLY DEVIATION REQUEST

Project Name: Timbrshor Subdivision Timbrshor Well 8

EQ

Engineer Name: Kurtis M. Hafferman, P.E.

Circular: DEQ-3 Standards for Small Water Systems

STANDARD: EXISTING STANDARD: Circular DEQ -3 Standards for Small Water Systems, August 8, 2014 Edition,

Chapter 3 – Source Development, Section 3.2.3 Location, 3.2.3.1 Well location, MDEQ must be consulted prior to design and construction regarding a proposed well location as it relates to required separation between existing and potential sources of contamination and ground water development. Wells must be located at least 100 feet from sewer lines, septic tanks, holding tanks, and any structure used to convey or retain industrial, storm, or sanitary waste; and from state or federal highway rights-of-way.

PROPOSED STANDARD:

Chapter 3 – Source Development, Section 3.2.3 Location

3.2.3.1 Well location, MDEQ must be consulted prior to design and construction regarding a proposed well location as it relates to required separation between existing and potential sources of contamination and ground water development. When possible, wells must be located at least 100 feet from sewer lines, septic tanks, holding tanks, and any structure used to convey or retain industrial, storm, or sanitary waste; and from state or federal highway rights-of-way.

3.2.3.1.1 Exceptions; When a new well is proposed and when the MDEQ has been consulted about well locations and there is exposed bedrock within the subdivision and bedrock excavation and blasting are required to install effluent lines or septic tanks and existing site development and other logistical issues such buried electrical and communications utilities and existing parking areas make well locations difficult, a deviation from Chapter 3 – Source Development, Section 3.2.3, Location, , 3.2.3.1 can be granted to allow the proposed well to be located near existing sewer lines and septic tanks that cannot be moved or otherwise relocated if;

1. The new well will be constructed for a transient, non-community population, and the PWS-5 analysis shows the well is not GUISW and,
2. The well will be constructed to the appropriate PWS and Board of Water Well Contractor standards and will include an outside protective casing of at least 2-inches larger diameter than the proposed water well casing, drilled to a minimum of 25 ft. below the ground surface (bgs) and standing at least 1.5 ft. above the ground surface and the outside protective casing is sealed on the exterior of the casing with a sanitary seal of cementitious bentonite grout that extends to the surface and,
3. The water well casing is installed to the proposed aquifer and extends fully to the surface and is 0.5 ft. above the top of the outer casing, is centered within ± 0.25 inches inside the outer casing, and the annular space from 25 ft. bgs to the top of the outer casing is filled with a cementitious grout and then sealed at the top of the outer casing to inner casing with a welded or bolted sanitary seal cap and,
4. Any existing single-family residential sewer lines within the Well Control Zone (WCZ) or any future sewer lines installed within the WCZ will be excavated and replaced with either Poly-Cor dual walled pipe or Schedule 80 pipe that is bedded in a free draining pea gravel to assure adequate bedding was achieved to at least 8-inches above the invert of the pipe to provide adequate drainage. In addition, the trench for the single-family residential sewer lines are graded to drain to the outside of the 100 feet well protection zone as soon as is possible and have been statically tested at 60 psi for 24-hours to assure the pipe is leak free at the time of installation,
5. The water quality of the well will be tested three (3) times each year for nitrate, nitrite and nitrate+nitrite total and compared to the allowable water quality maximum contaminate limit (MCL) of 10 mg/L. Current water quality tests for a neighboring sample wells are 0.13 mg/L, non-detect and 0.13 mg/L respectively. A value of 7 mg/L or greater for any of the three test values will require a response by the THOA and water quality testing will be required daily. A value of 10 mg/L or greater will be considered a violation of the proposed standard and water use from the Well 8 must cease immediately. Improvement of water quality must result in three test values that are equal to or below 7 mg/l. Water quality tests will occur on May 1st on July 1st and on October 1st of each year; corresponding to the seasonal arrival, peak use and end of season for most of the unit owners.

JUSTIFICATION: *attach additional information as necessary*

The Timbrshor Subdivision has been determined to have 13 existing units that are using water from a COSA non-compliant water system; surface water of Flathead Lake and one well. During development from 1977 until 2009, units could be constructed within the Timbrshor Subdivision and were not prevented from installing COSA non-compliant individual or multi-user surface water diversions from Flathead Lake for domestic water use. In 2010 Lake County informed the developer, Borchers of Finley Point and the Timbrshor Subdivision Homeowners Association (THOA) that new unit construction would not be permitted until a COSA compliant wastewater treatment system (WWTS) was installed. The County acknowledged that there was also a COSA non-complaint water system that was installed but, acknowledging that any issues with water rights associated to subdivision would be involved in the CSKT water right compact, instructed the developer and the THOA to proceed with the WWTS plans, approvals and construction.

As soon as the costs of the WWTS were known and assessed, the developer filed for bankruptcy and the Timbrshor Homeowners Association (THOA) was the only party left to resolve the issues with a COSA non-compliant WWTS and water system. As the remaining owners, the THOA were immediately incumbered with not only the regulatory responsibility but a substantial financial responsibility to correct the developers COSA violations. Between 2013 and 2016 the THOA spent over \$550,000 to address the more urgent of the health issues by completing the WWTS.

When the record drawings were filed in 2016 at Lake County, the THOA requested the County lift the building moratorium. The County contacted the DEQ who then informed the THOA that new unit construction would still not be allowed until final approval of a COSA complaint water system. The THOA met with the DEQ, developed a plan that would more likely than not meet both the DNRC water right and DEQ regulations and the THOA water requirements. The THOA is now in the process of developing the plans and specifications for a transient non-community, multi-user, multiple groundwater well, well system.

The THOA are again the parties affected by the building moratorium, and again are immediately incumbered with the financial responsibility to correct the developers COSA violations. The THOA is financially incumbered and cannot raise enough additional funds to afford the community surface water system contemplated in the original COSA, nor can they afford the extravagance of a dual well and storage system given the extreme difficulty to trench and bury water lines. A risk and cost analysis completed by Hafferman Engineering Inc. (HEI) shows that a series of six (6) individual wells could be constructed near to the planned or existing units to reduce the cost of pipelines and extensive pressure distribution system. The results of the risk analysis show if extraordinary sanitary seals are installed on the outside of the water well casing and if seasonal water quality tests are conducted then septic tanks and effluent lines can be placed closer than 100 ft from a transient non-community well that is a regulated public water supply. If the wells are approved at the locations contemplated both the immediate concerns of the 13 COSA non-complaint owners can be resolved and future unit owners can plan for development.

When the WWTS was designed, preliminary groundwater well locations were made and the new drainfields, replacement drainfields, new effluent lines and new septic tanks were placed as far could reasonably be accommodated from the one existing and five (5) other potential well locations. There is a significant amount of exposed bedrock within the subdivision and at many areas, rock excavation and blasting are required to install effluent lines or septic tanks. In addition, site development (unit locations) and other logistical issues such as other buried utilities and existing parking areas make well locations difficult. Because the remaining septic tanks and effluents lines cannot be moved due to these site constraints, the THOA is requesting the deviations and proposed replacement standards.

MDEQ has been consulted about the location for this new well. Because there are existing septic tanks and effluent lines that would be impractical to relocate and because it has been determined that this is the only location within the Timbrshor Subdivision where Well 8 can be located that can be accessed by a well drilling truck, and, due to anticipated bedrock excavation, and it is located as near to the water service connection points as is possible, then a deviation is warranted.

It will be specified that the PWS Well 8 will be constructed to the extraordinary standards of the proposed standard for Chapter 3 – Source Development, Section 3.2.3 Location, 3.2.3.1 parts 1. to 5. Including all PWS and Board of Water Well Contractor standards for a sanitary seal on the outside protective casing and the inner water well casing that extends to the surface.

There are no existing residential sewer lines located in the WCZ of Well 8. There is two (2) septic tanks planned within the WCZ and two (2) effluent lines from the units. Any new residential sewer lines will be excavated, and either Poly-Cor dual walled pipe will be used, or pipes will be Schedule 80 PVC which is bedded in a free draining pea gravel to assure adequate bedding around the entire pipe up to at least 8-inches above the pipe. The trench for the single-family residential sewer lines is 2.0 ft. bgs and 4.0 ft. lower than the top of the well casing and the sewer line will be graded to drain directly to the outside of the 100 feet well protection zone. The effluent pipe is a 1-1/2-inch pipe and will be filled with water and pressure tested to 60 psi for 24-hours.

When the extra ordinary well construction standards are implemented for Well 8, and the current existing sewer lines are excavated and replaced with either Poly Cor dual walled pipe or schedule 80 pipe bedded in pea gravel and graded to drain directly to the outside as well protection zone, when each of the effluent pipes within the WCZ are pressure tested to 60 psi for 24 hours and Well 8 has three water quality tests taken each year then the deviation from the existing standard is justified.

In accordance with ARM 17.38.101 (e), I certify that strict adherence to the above standard is not necessary to protect public health and the quality of state waters.

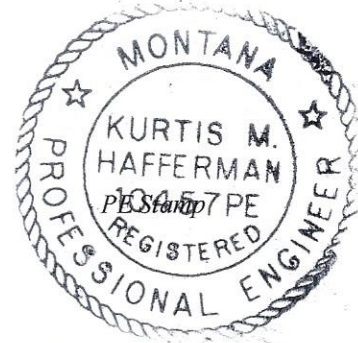


(Signature of Professional Engineer)

10-30-2019

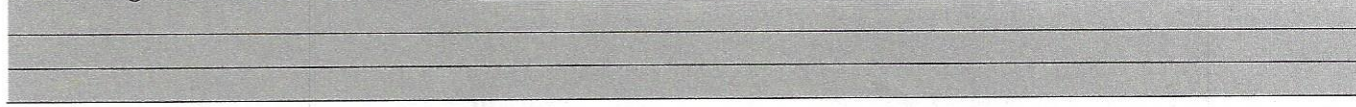
(Date Signed)

Montana P.E. Number PEL-PE-LIC-10457



For Department Use Only:

Review Engineer's Recommendation:





PUBLIC WATER SUPPLY DEVIATION REQUEST

Project Name: Timbrshor Subdivision Well 8

EQ _____

Engineer Name: Kurtis M. Hafferman, P.E.

Circular: DEQ-3 Standards for Small Water Systems

STANDARD: EXISTING STANDARD: Circular DEQ -3 Standards for Small Water Systems, August 8, 2014 Edition,

Chapter 3 – Source Development, 3.2.3.2 Continued protection, Continued protection of the well site from potential sources of contamination must be provided either through zoning, easements, deed notices, leasing, or other means acceptable to MDEQ. Easements and deed notices must be filed with the County Clerk and Records Office. Such protection must extend for at least 100-foot radius around the well (well isolation zone). In addition, separation distances between proposed wells and potential sources of contamination must be defined and justified by the applicant in accordance with Section 1.1.6 of this circular. The well isolation zone of a proposed or existing well may not be in a groundwater mixing zone as defined by ARM 17.30.517 and also may not include easements that would conflict with the proposed use. Fencing of the site may be required by MDEQ.

PROPOSED STANDARD:

Chapter 3 – Source Development, Section 3.2.3.2 Continued Protection

3.2.3.2 Continued protection of the well site from potential sources of contamination must be provided either through zoning, easements, deed notices, leasing, or other means acceptable to MDEQ. Easements and deed notices must be filed with the County Clerk and Records Office. Such protection, *where possible*, must extend for at least 100-foot radius around the well (well isolation zone). In addition, separation distances between proposed wells and potential sources of contamination must be defined and justified by the applicant in accordance with Section 1.1.6 of this circular. The well isolation zone of a proposed or existing well may not be in a groundwater mixing zone as defined by ARM 17.30.517 and also may not include easements that would conflict with the proposed use. Fencing of the site may be required by MDEQ.

3.2.3.2.1 Exceptions; when a new well is proposed and when the MDEQ has been consulted about well locations and the well isolation zone extends beyond the property-line on which the well is proposed, a deviation from Chapter 3 Source Development, Section 3.2.3.2 Continued Protection, can be granted to the required 100-foot radius well protection zone and/or the configuration of the zone if;

1. The proposed well location has been approved by MDEQ,
2. There are no sources of potential contamination; sewer lines, septic tanks, drain fields, mixing zones, holding tanks, and any structures used to convey or retain industrial, storm, or sanitary waste, state or federal highway rights-of-way, and any other sources of potential contamination as described in Chapter 3 Source Development, Section 1.1.6 (d) within the well isolation zone,
3. The well lies up-gradient from that portion of the well isolation zone in which the deviation is being requested, And
4. All efforts to change zoning, acquire an easement, deed notice, lease or other means acceptable by MDEQ have been exhausted and no agreement can be reached with the owners of the property(s) impacted by the well isolation zone of the proposed well.

JUSTIFICATION: *attach additional information as necessary*

The Timbrshor Subdivision has been determined to have 13 existing units that are using water from a COSA non-compliant water system. During development from 1977 until 2009, units could be constructed within the Timbrshor Subdivision and were not prevented from installing COSA non-compliant individual or multi-user surface water diversions from Flathead Lake for domestic water use. In 2003 Lake County informed the developer, Borchers of Finley Point and the Timbrshor Subdivision Homeowners Association (THOA) that new unit construction would not be permitted until a COSA compliant wastewater treatment system (WWTS) was installed. The County acknowledged that there was also a COSA non-complaint water system that was installed but, acknowledging that any issues with water rights associated to subdivision would be involved in the CSKT water right compact, instructed the developer and the THOA to proceed with the WWTS plans, approvals and construction.

As soon as the costs of the WWTS were known and assessed, the developer filed for bankruptcy and the Timbrshor

Homeowners Association (THOA) was the only party left to resolve the issues with a COSA non-compliant WWTS and water system. As the remaining owners, the THOA were immediately incumbered with not only the regulatory responsibility but a substantial financial responsibility to correct the developers COSA violations. Between 2013 and 2016 the THOA spent over \$550,000 to address the more urgent of the health issues by completing the WWTS.

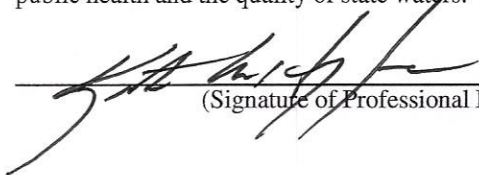
When the record drawings were filed in 2016 at Lake County, the THOA requested the County lift the building moratorium. The County contacted the DEQ who then informed the THOA that new unit construction would not be allowed until final approval of a COSA complaint water system. The THOA met with the DEQ, developed a plan that would more likely than not meet both the DNRC water right and DEQ regulations and the THOA water requirements. The THOA has retained Hafferman Engineering, Inc. and is now in the process of developing the plans and specifications for a transient non-community, multi-user, multiple groundwater well, domestic water supply and distribution system.

The THOA are again the parties affected by the building moratorium, and again are immediately incumbered with the financial responsibility to correct the developers COSA violations. The THOA is financially incumbered and cannot raise enough additional funds to afford the community surface water system contemplated in the original COSA, nor can they afford the extravagance of a dual well and storage system given the extreme difficulty to trench and bury water lines. HEI has had numerous conversations with MDEQ's Kalispell office with Emily Gillespie P.E. The general discussion was this well could be pursued for an individual, shared, multi-user or public well (using standard submittal process).

There are no known sources of contamination on the neighboring property; septic systems, mixing zones, wastewater disposal systems, sewer lines, holding tanks, lift stations, French drains, class V injection wells, or any structures used to convey or retain industrial, storm or sanitary waste, within the well isolation zone for the proposed Well 8 well and the well lays up-gradient from the adjacent property to be impacted by the isolation zone. The area of the well isolation zone on the adjoining property is on the road, Snowberry Lane or the Timbrshor access road and cannot be otherwise used or developed.

Approximately 10% of the Well 5 well isolation zone extends into the property of who's legal description is Finley Point Villa Site, S07, T23 N, R19 W, Block 003, Lot 01c, Finley Pt Villa Site Lot 1-C Blk 3 H-1636 Lake County, Montana. This property is owned by Randa McAlpin, Polson, Montana After numerous attempts to negotiate a well control zone agreement with Mrs. McAlpin and then her son David McAlpin, to allow the well isolation zone to encroach onto the property, the McAlpin's have rejected all offers and therefore a deviation from 3.2.3.2 is necessary in order to proceed.

In accordance with ARM 17.38.101 (e), I certify that strict adherence to the above standard is not necessary to protect public health and the quality of state waters.



(Signature of Professional Engineer)

10-30-2019

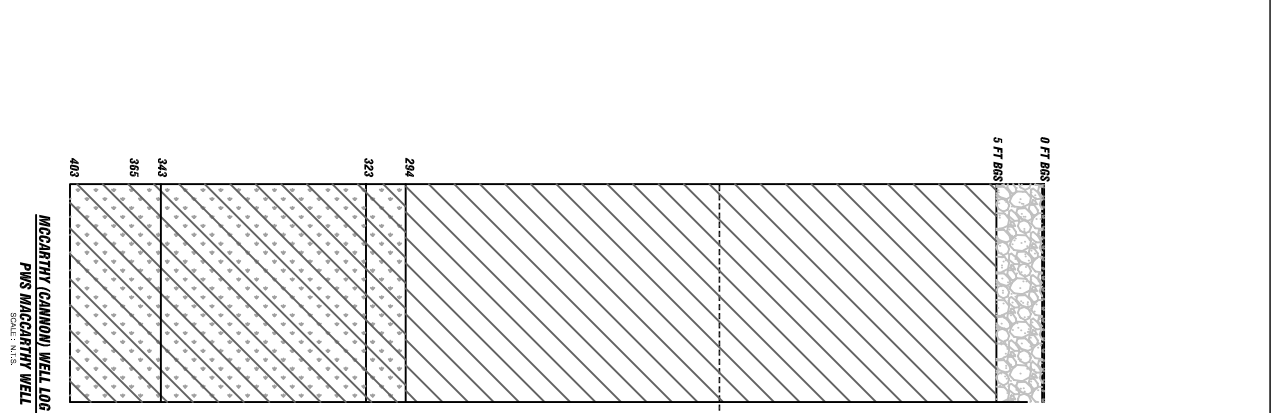
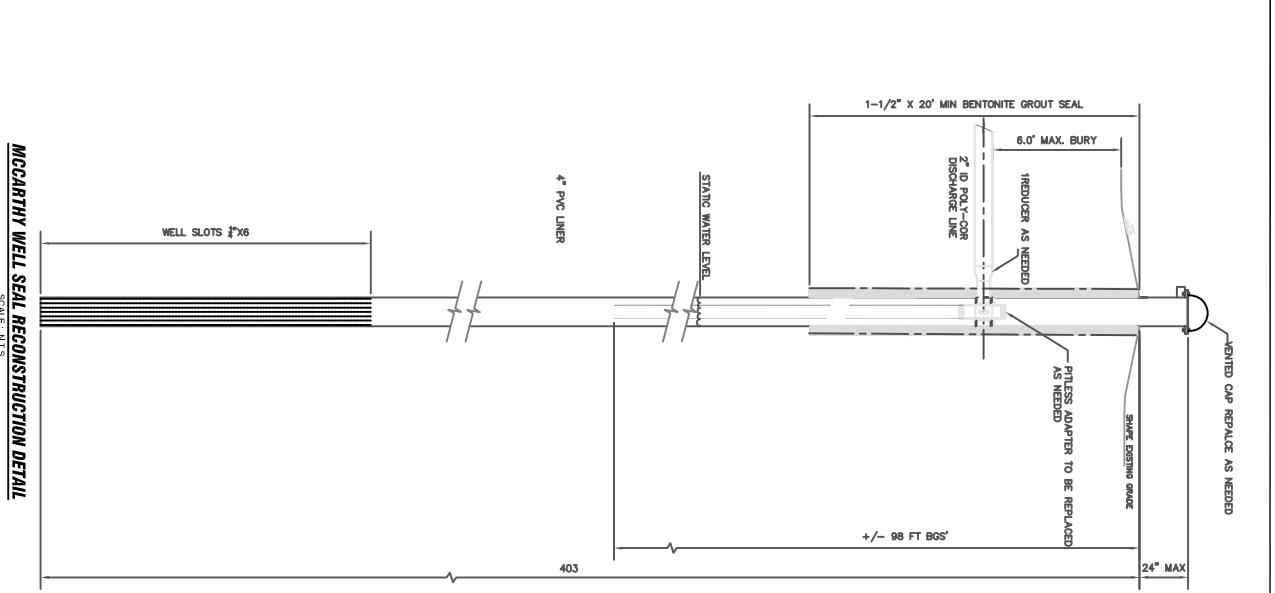
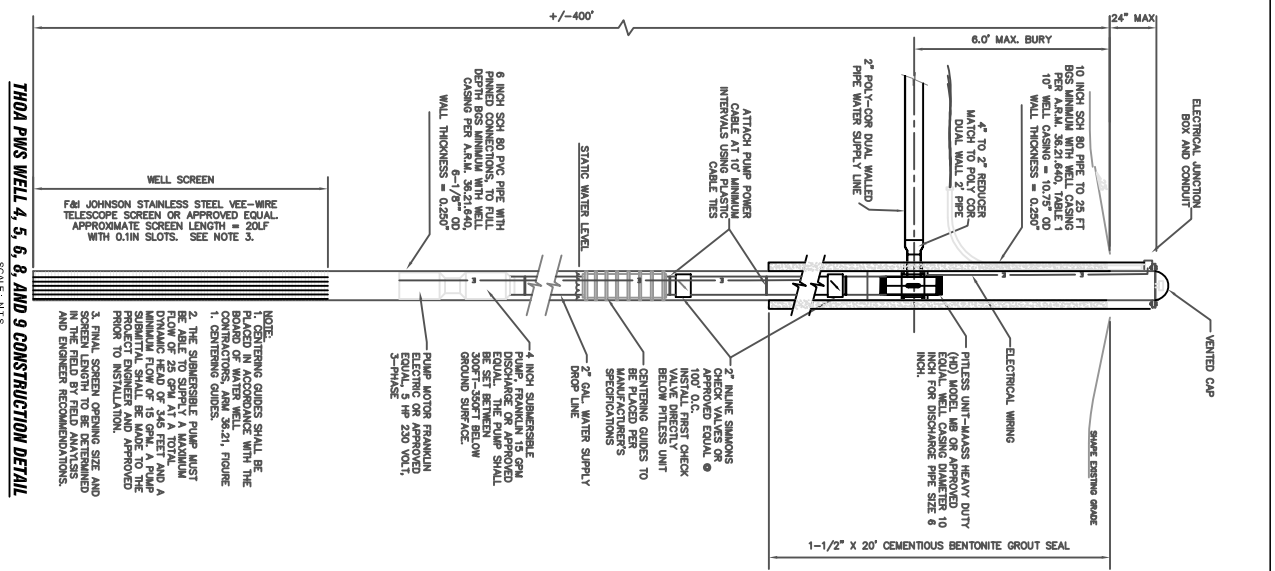
(Date Signed)

Montana P.E. Number PEL-PE-LIC-10457



For Department Use Only:

Review Engineer's Recommendation:



THOA PWS WELL 4, 5, 6, 8, AND 9 CONSTRUCTION DETAIL
SCALE: N.T.S.

McCarthy Well Seal Reconstruction Detail
SCALE: N.T.S.

McCarthy (Cannon) Well Log Detail
SCALE: N.T.S.

DATE	DESCRIPTION	BY
10/17/19	DRAFT DESIGN DRAWINGS	HLF
10/23/19	DRAFT CONSTRUCTION	HLF
10/29/19	PITLESS AND WATER LINES	HLF
11/20/19	TO BE ISSUED FOR REVIEW	HLF
10/30/19	SUBMITTAL	HLF

DESIGNED BY: AS SHOWN
 DRAWN BY: PREPARED BY
 CHECKED BY: DATE: 11/20/19
 PROJECT NO: 19-001

1 OF 1

TIMBRSHOR HOA WATER SYSTEM IMPROVEMENTS
FOR THE TIMBRSHOR HOA

SECTION 7, T.23N, R.19W, P.3M, FLATHEAD COUNTY, MONTANA



Vacant
UNIT 219

Vacant
UNIT 216

UNIT 207

UNIT 210

UNIT 211



WELL 8

267.37'

50'

WELL 8 WELL LOCATION & WATER
LINE ROUTE AND WCZ

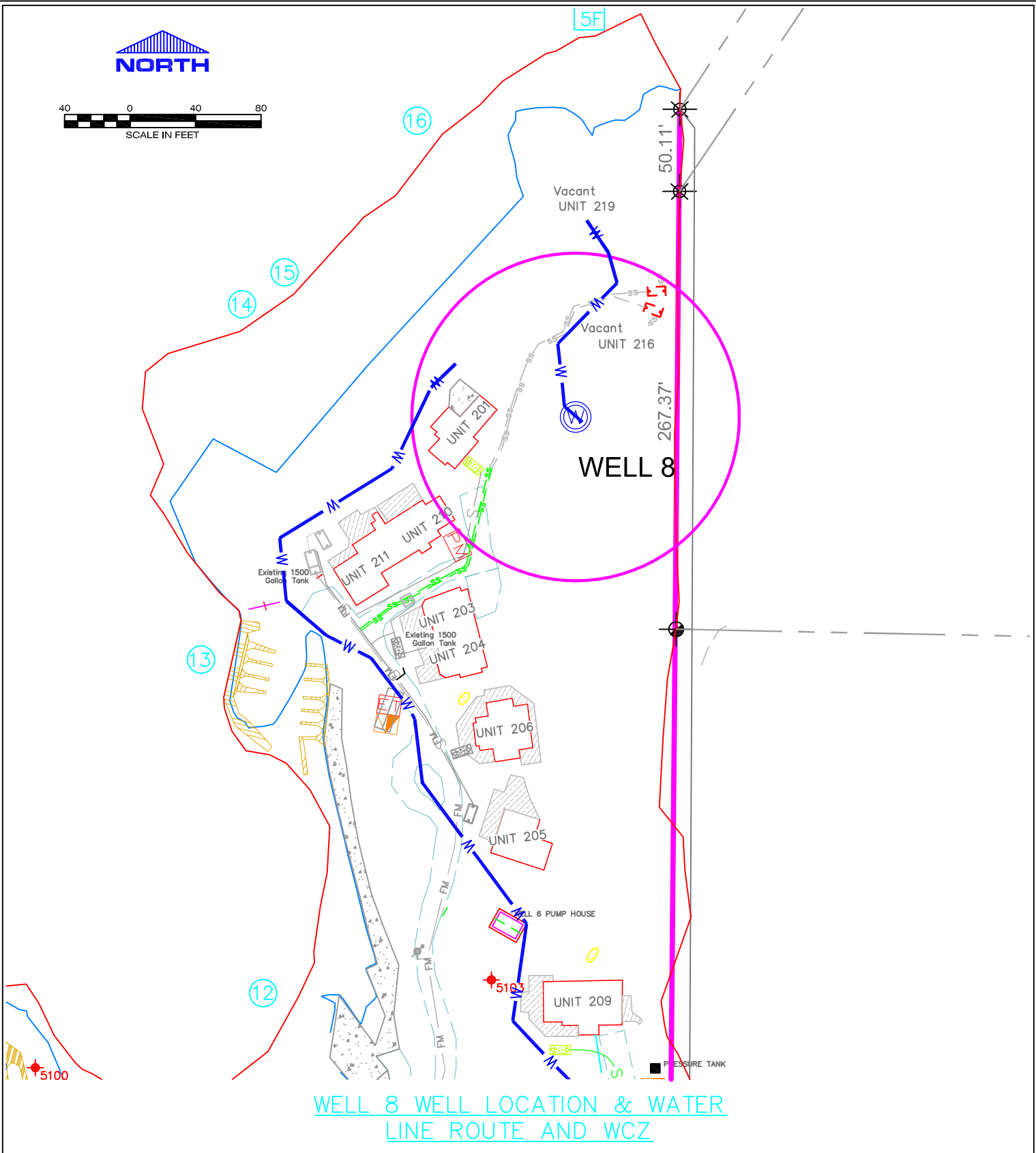


HAFFERMAN ENGINEERING, INC.
P.O. BOX 1891
KALISPELL, MT 59901-1891
PHONE: 406-257-8708
FAX: 406-257-8710
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HAFFERMAN ENGINEERING, INC.

DRAWING TITLE:
TIMBRSHOR WELL #8 PROTECTION ZONE
FOR
TIMBRSHOR HOA
SECTION 7
T23N, R 19W, PM, M., LAKE COUNTY, MONTANA

DATE: DEC 6, 2018	PROJECT NUMBER: T.58.2	SCALE: AS SHOWN	SHEET: 1 OF 2
FILE LOCATION: S:\LAND PRO...T.58.2\DWG	DRAWN BY: NJF	APPROVED BY: KMH	



WELL 8 WELL LOCATION & WATER LINE ROUTE AND WCZ



HAFFERMAN ENGINEERING, INC.
 P.O. BOX 1891
 KALISPELL, MT 59901-1891
 PHONE: 406-257-8708
 FAX: 406-257-8710
 EMAIL: info@billmayer.com
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DRAWING TITLE:

TIMBRSHOR WELL #8 PROTECTION ZONE

FOR

TIMBRSHOR HOA

SECTION 7
 T23N, R 19W, PM, M., LAKE COUNTY, MONTANA

DATE:
 DEC 6, 2018

PROJECT NUMBER:
 T.58.2

SCALE:
 AS SHOWN

SHEET:
 1 OF 2

FILE LOCATION:
 S:\LAND PRO...T.58.2\DWG

DRAWN BY:
 NJF

APPROVED BY:
 KMH

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Metcalf Building 1520 East Sixth Avenue P.O. Box 200901 Helena, MT 59620-0901

PRELIMINARY ASSESSMENT WORKSHEET

Preliminary Assessment of Ground Water Sources that may be Under the Direct Influence of Surface Water

PWS System and Source Facility Information			
PWS Name:	TIMBERSHOR SUBDIVISION PWS	PWS ID#: <small>(MT000nnnn)</small>	
Type (C, NTNC, NC):	NC	County:	LAKE
Source Facility Name:	THOA WELL 9	SDWIS Facility ID: <small>(WL00n,SP00n,IG00n)</small>	Population Served: 15
		Date: <small>(m/d/yy)</small>	8/5/19

COMPUTE PA SCORE	Mark (X) ONE option that applies and enter option index pts at right	Points
A. TYPE OF STRUCTURE		
Spring (40) ___	Horizontal Well (40) ___	Well (0) <u>X</u>
B. HISTORICAL PATHOGENIC ORGANISM CONTAMINATION: History or suspected outbreak of Giardia, or other pathogenic organisms associated with surface water, with current system configuration.		
Yes (40) ___	No (0) <u>X</u>	<u>0</u>
C. HISTORICAL MICROBIOLOGICAL CONTAMINATION:		
I) Record of acute (boil order or fecal positive sample) MCL violations of the Total Coliform Rule during the last 3 years. Number of violations:		
None (0) <u>X</u>	One (5) ___	Two (10) ___
Three (15) ___		
II) Record of non-acute (two coliform positive samples in one month) MCL violations of the Total Coliform Rule during the last 3 years. Number of violations:		
None or One (0) <u>X</u>	Two (5) ___	Three (10) ___
Turbidity Complaints (DEQ verified) (5) ___		<u>0</u>
D. HYDROLOGICAL FEATURES: Horizontal distance between surface water & source.		
> 250 ft (0) <u>395</u>	175 - 250 ft (10) ___	100 - 174 ft (20) ___
< 100 ft (40) ___		<u>0</u>
E. WELL SEAL: Poorly constructed well (uncased, or annular space not sealed to depth of at least 18 feet below land surface), or casing construction is unknown.		
Yes (15) ___	No (0) <u>X</u>	
F. WELL INTAKE CONSTRUCTION: In wells tapping unconfined or semi-confined aquifers, the depth below land surface to top of perforated interval or screen is:		
>100 ft (0) ___	50-100 ft (5) <u>X</u>	25-49 ft (10) ___
0-24 ft (15) ___	Unkn (15) ___	
G. STATIC WATER LEVEL: In wells tapping unconfined or semi-confined aquifers, the depth to static water level below land surface is:		
>100 ft (0) ___	50-100 ft (5) <u>80</u>	25-49 ft (10) ___
0-24 ft (15) ___	Unkn (15) ___	
H. WELL CAP CONSTRUCTION: Poor sanitary seal, or seal without acceptable material.		
Yes (15) ___	No (0) <u>X</u>	
TOTAL PA SCORE (Right click in cell to right and select Update Field.)		<u>10</u>

Continued other side ...

PRELIMINARY ASSESSMENT WORKSHEET (continued)

I. PRELIMINARY ASSESSMENT DETERMINATION	Mark (X) ONE
1. PASS: Source is not under the direct influence of surface water.	X
2. FAIL: Well must undergo further GWUDISW analysis.	—
3. FAIL: Spring, must undergo further GWUDISW analysis.	—
4. FAIL: Well or horizontal well less than 100 feet from surface water, must undergo further GWUDISW analysis.	—
5. FAIL: Well will PASS if well construction deficiencies (section E or F) are repaired.	—
6. FAIL: Well may PASS if well construction details (section E, F, or G) become available.	—

ANALYST INFORMATION AND COMMENTS	
NAME:	KURTIS M. HAFFERMAN P.E. - HAFFERMAN ENGINEERING
AFFILIATION:	THOA PROJECT ENGINEER
COMMENTS	
<p>WELL 9 DEVELOPMENT IS BASED ON A INTERPOLATION BETWEEN TWO NEARBY WELLS BASED ON DISTANCE AND ELEVATION. THE WELLS ARE THE RICHARD CANNON, GWIC WELL LOG 77517 AND THE LAURRY BISHOP WELL LOG, GWIC 168825 . THE CANNON WELL WAS DRILLED BY LIBERTY DRILLING, ONE OF THE MORE REPUTABLE DRILLING OPERATIONS IN THE AREA SO THE WELL LOG IS ASSUMED TO BE ACCURATE. THE BISHOP WELL WAS DRILL BY CASTILO DRILLING, ANOTHER LOCAL, LONG STANDING DRILLER WITH A GOOD REPUTATION AND THE WELL LOG IS ASSUMED TO BE ACCURATE.</p> <p>GROUNDWATER IN CANNON WAS ENCOUNTERED NEAR 403 FT. BGS AND THE STATIC WATER LEVEL IS 98 FT BGS. GROUNDWATER IN BISHOP WAS ENCOUNTERED AT 110 FT. BGS AND THE SWL IS 55 FT BGS. BECAUSE OF THE LACK OF WATER BEARING LAYERS UNTIL ENCOUNTERING WATER, WELL BELOW GROUND SURFACE, IT IS ASSUMED THE AQUIFER IS CONFINED UNDER NUMEROUS OVER LAYING BEDROCK LAYERS. GROUNDWATER IN WELL 9 IS ANTICIPATED TO BE NEAR TO 80 FT BGS WITH A TOTAL DEPTH NEAR TO 182 FT BGS.</p> <p>WATER QUALITY WAS TESTED IN THE CANNON WELL ON NOVEMEBR 2015 AND THE NITRATE CONCENTRATION WAS 0.13 MG/L.</p> <p>THE WELL CONTROL ZONE FOR WELL 9 CROSSES ONTO A NEIGHBORING PROPERTY. THE SOUTH NEIGHBOR TIM AND KIRSTEN ROSE, REFUSED TO SIGN THE WCZ AGREEMENT. A DEVIATION FROM THE FULL 100 FT. WCZ IS REQUESTED. THE PROPOSED DEVIATION IS ATTACHED. PLANS AND SPECIFICATIONS FOR THE WELL CONSTRUCTION TO INCLUDE A MANMADE BARRIER OF NEAT CEMENT GROUT IS ALSO ATTACHED.</p>	

Electronic Entry Instructions: Open the WORD document template (DOT) as a WORD document (DOC) with an appropriate name and location. The document is protected from all edits other than form entry. Enter the requested information in the form fields and tab forward between fields. All character entries will be converted to upper case. In the Compute PA Score table for questions A through H, mark with an X the one option which applies to each, then enter the score corresponding to that option in the field to the right under the Points column. When scores A-H have been entered right click on the Total PA Score field and select Update Field. The total score will be computed. Select the PA Determination option by marking with an X. Fill out the Analyst Information and Comments table. Save the document with your entries.



PUBLIC WATER SUPPLY DEVIATION REQUEST

Project Name: Timbrshor Subdivision Well 9

EQ

Engineer Name: Kurtis M. Hafferman, P.E.

Circular: DEQ-3 Standards for Small Water Systems

STANDARD: EXISTING STANDARD: Circular DEQ -3 Standards for Small Water Systems, August 8, 2014 Edition,

Chapter 3 – Source Development, 3.2.3.2 Continued protection, Continued protection of the well site from potential sources of contamination must be provided either through zoning, easements, deed notices, leasing, or other means acceptable to MDEQ. Easements and deed notices must be filed with the County Clerk and Records Office. Such protection must extend for at least 100-foot radius around the well (well isolation zone). In addition, separation distances between proposed wells and potential sources of contamination must be defined and justified by the applicant in accordance with Section 1.1.6 of this circular. The well isolation zone of a proposed or existing well may not be in a groundwater mixing zone as defined by ARM 17.30.517 and also may not include easements that would conflict with the proposed use. Fencing of the site may be required by MDEQ.

PROPOSED STANDARD:

Chapter 3 – Source Development, Section 3.2.3.2 Continued Protection

3.2.3.2 Continued protection of the well site from potential sources of contamination must be provided either through zoning, easements, deed notices, leasing, or other means acceptable to MDEQ. Easements and deed notices must be filed with the County Clerk and Records Office. Such protection, *where possible*, must extend for at least 100-foot radius around the well (well isolation zone). In addition, separation distances between proposed wells and potential sources of contamination must be defined and justified by the applicant in accordance with Section 1.1.6 of this circular. The well isolation zone of a proposed or existing well may not be in a groundwater mixing zone as defined by ARM 17.30.517 and also may not include easements that would conflict with the proposed use. Fencing of the site may be required by MDEQ.

3.2.3.2.1 Exceptions; when a new well is proposed and when the MDEQ has been consulted about well locations and the well isolation zone extends beyond the property-line on which the well is proposed, a deviation from Chapter 3 Source Development, Section 3.2.3.2 Continued Protection, can be granted to the required 100-foot radius well protection zone and/or the configuration of the zone if;

1. The proposed well location has been approved by MDEQ,
2. There are no sources of potential contamination; sewer lines, septic tanks, drain fields, mixing zones, holding tanks, and any structures used to convey or retain industrial, storm, or sanitary waste, state or federal highway rights-of-way, and any other sources of potential contamination as described in Chapter 3 Source Development, Section 1.1.6 (d) within the well isolation zone,
3. The well lies up-gradient from that portion of the well isolation zone in which the deviation is being requested, And
4. All efforts to change zoning, acquire an easement, deed notice, lease or other means acceptable by MDEQ have been exhausted and no agreement can be reached with the owners of the property(s) impacted by the well isolation zone of the proposed well.

JUSTIFICATION: *attach additional information as necessary*

The Timbrshor Subdivision has been determined to have 13 existing units that are using water from a COSA non-compliant water system. During development from 1977 until 2009, units could be constructed within the Timbrshor Subdivision and were not prevented from installing COSA non-compliant individual or multi-user surface water diversions from Flathead Lake for domestic water use. In 2003 Lake County informed the developer, Borchers of Finley Point and the Timbrshor Subdivision Homeowners Association (THOA) that new unit construction would not be permitted until a COSA compliant wastewater treatment system (WWTS) was installed. The County acknowledged that there was also a COSA non-complaint water system that was installed but, acknowledging that any issues with water rights associated to subdivision would be involved in the CSKT water right compact, instructed the developer and the THOA to proceed with the WWTS plans, approvals and construction.

As soon as the costs of the WWTS were known and assessed, the developer filed for bankruptcy and the Timbrshor

Homeowners Association (THOA) was the only party left to resolve the issues with a COSA non-compliant WWTS and water system. As the remaining owners, the THOA were immediately incumbered with not only the regulatory responsibility but a substantial financial responsibility to correct the developers COSA violations. Between 2013 and 2016 the THOA spent over \$550,000 to address the more urgent of the health issues by completing the WWTS.

When the record drawings were filed in 2016 at Lake County, the THOA requested the County lift the building moratorium. The County contacted the DEQ who then informed the THOA that new unit construction would not be allowed until final approval of a COSA complaint water system. The THOA met with the DEQ, developed a plan that would more likely than not meet both the DNRC water right and DEQ regulations and the THOA water requirements. The THOA has retained Hafferman Engineering, Inc. and is now in the process of developing the plans and specifications for a transient non-community, multi-user, multiple groundwater well, domestic water supply and distribution system.

The THOA are again the parties affected by the building moratorium, and again are immediately incumbered with the financial responsibility to correct the developers COSA violations. The THOA is financially incumbered and cannot raise enough additional funds to afford the community surface water system contemplated in the original COSA, nor can they afford the extravagance of a dual well and storage system given the extreme difficulty to trench and bury water lines. HEI has had numerous conversations with MDEQ's Kalispell office with Emily Gillespie P.E. The general discussion was this well could be pursued for an individual, shared, multi-user or public well (using standard submittal process).

There are no known sources of contamination on the neighboring property; septic systems, mixing zones, wastewater disposal systems, sewer lines, holding tanks, lift stations, French drains, class V injection wells, or any structures used to convey or retain industrial, storm or sanitary waste, within the well isolation zone for the proposed Well 9 well and the well lays up-gradient from the adjacent property to be impacted by the isolation zone. The area of the well isolation zone on the adjoining property is on the road, Snowberry Lane or the Timbrshor access road and cannot be otherwise used or developed.

Approximately 10% of the Well 5 well isolation zone extends into the property of who's legal description is Finley Point Villa Site, Finley Point Villa Site, S07, T23 N, R19 W, Block 006, Lot 001, lake County, Montana. This property is owned by Timothy L. and Kristen R. Rose. After numerous attempts to negotiate a well control zone agreement with Mr. and Mrs. Rose to allow the well isolation zone to encroach onto the property, the Rose's have rejected all offers and therefore a deviation from 3.2.3.2 is necessary in order to proceed.

In accordance with ARM 17.38.101 (e), I certify that strict adherence to the above standard is not necessary to protect public health and the quality of state waters.

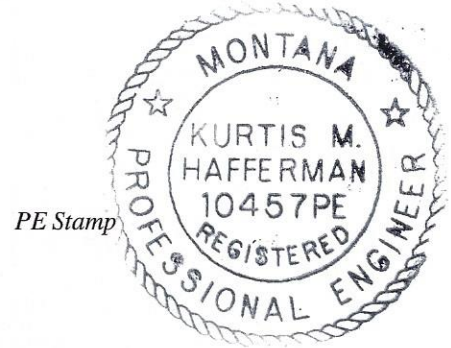


(Signature of Professional Engineer)

10-30-2019

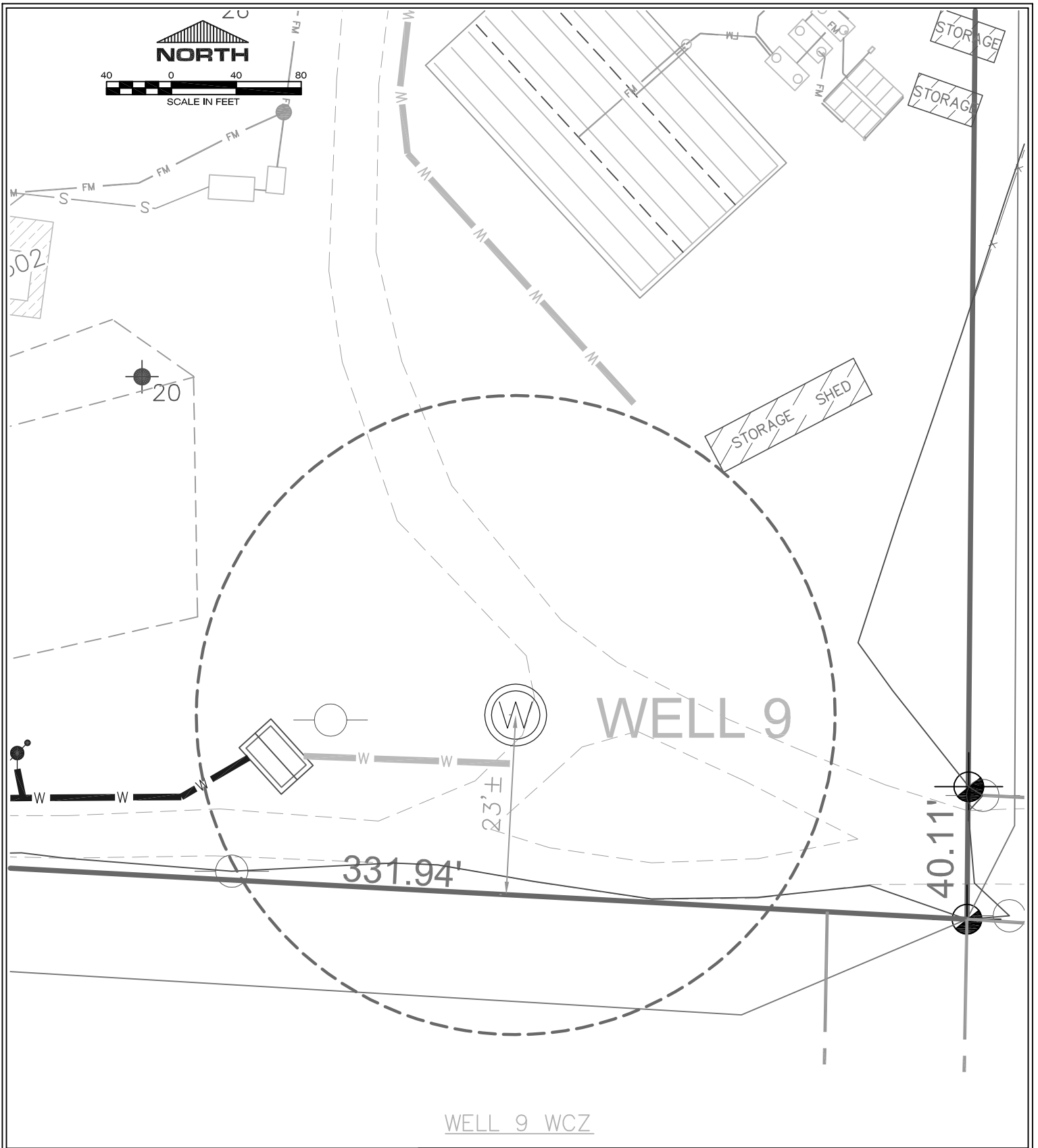
(Date Signed)

Montana P.E. Number PEL-PE-LIC-10457



For Department Use Only:

Review Engineer's Recommendation:



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DRAWING TITLE:

TIMBRSHOR WELL 9 WELL PROTECTION ZONE

FOR

TIMBRSHOR HOA

SECTION 7
 T23N, R 19W, PM, M., LAKE COUNTY, MONTANA

DATE:
 DEC 7, 2018

PROJECT NUMBER:
 T.58.2

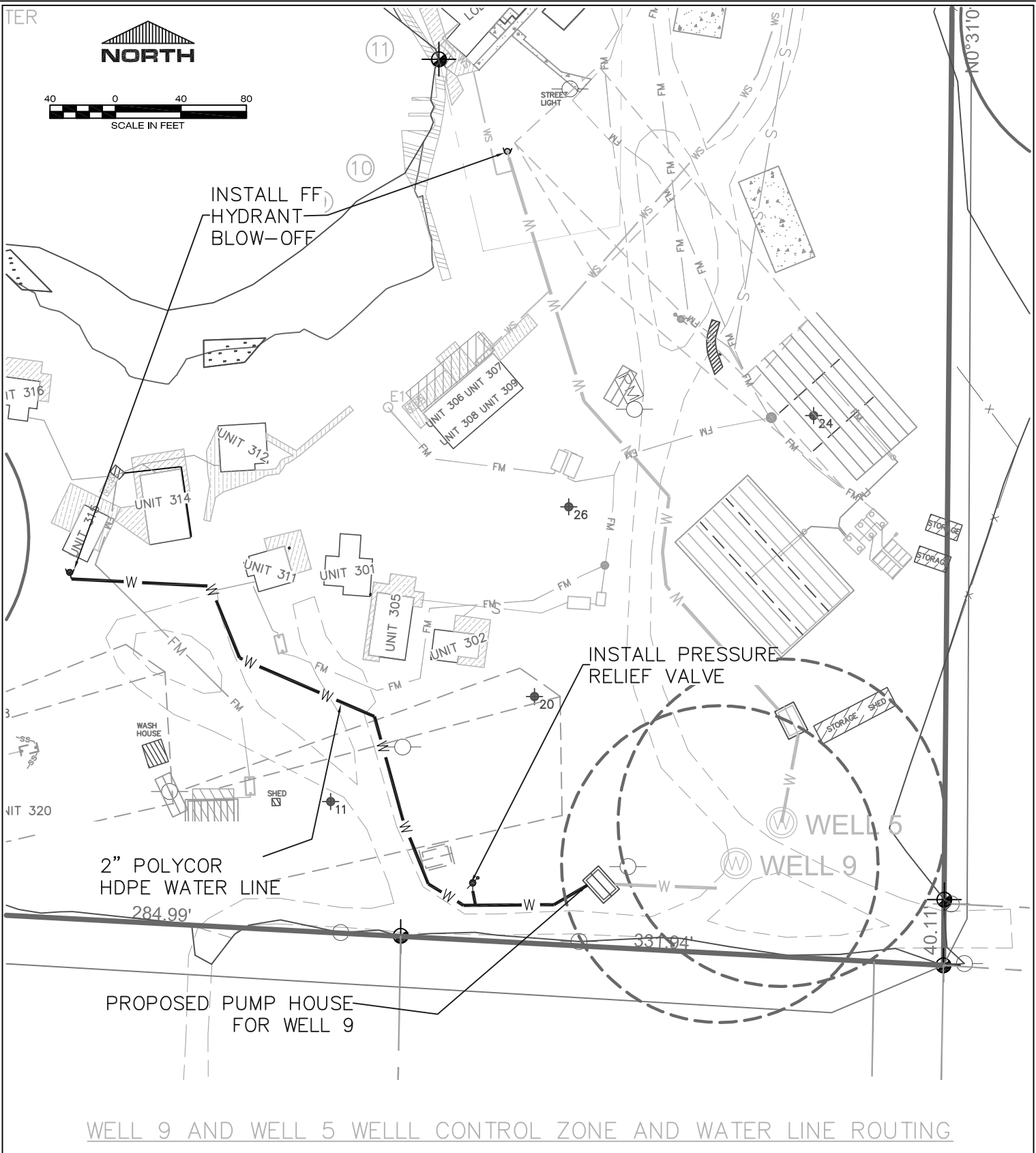
SCALE:
 AS SHOWN

SHEET:
 2 OF 2

FILE LOCATION:
 S:\LAND PRO...T.58.2\DWG

DRAWN BY:
 NJF

APPROVED BY:
 KMH



WELL 9 AND WELL 5 WELL CONTROL ZONE AND WATER LINE ROUTING



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DRAWING TITLE:
TIMBRSHOR WELL 9 AND WELL 5
 FOR
TIMBRSHOR HOA
 SECTION 7
 T23N, R 19W, PM, M., LAKE COUNTY, MONTANA

DATE: DEC 7, 2018	PROJECT NUMBER: T.58.2	SCALE: AS SHOWN	SHEET: 1 OF 2
FILE LOCATION: S:\LAND PRO...T.58.2\DWG	DRAWN BY: NJF	APPROVED BY: KMH	