

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33140
Exam Date: 09/11/2020

1. Current Owner:
MIDDLETON SCHOOL DISTRICT #134 5 S VIKING AVE MIDDLETON ID 83644-5563
2. Accompanied by: Adam
Phone No: 208-573-0839
Address:
Relationship to permit Holder: Employee of Middleton School District

3. SOURCE:
GROUND WATER

Method of Determination: Site visit & GPS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
Middleton Irrigation Assoc. Rights	Various	Irrigation	Various
Middleton Mill Ditch Co. Rights	Various	Irrigation	Various
City of Middleton Rights	Various	Municipal	Decreed
U.S. Acting through Bureau of Rec. Rights	Various	Irrigation	Decreed
Black Canyon Irr. Dist. Rights	Elijah Drain	Irrigation	Decreed
Drainage Dist. No. 2	Unnamed drains	Irrigation	Decreed
63-33138	Groundwater	Irrigation	Decreed

Comments: Black Canyon Irrigation District ("BCID") rights 65-2009 and 63-2878 overlap with the permitted POU. The Middleton School District ("District") receives surface water from the BCID under these rights. Shares from the BCID rights are used as the primary source to irrigate the POU. According to the District employee I met for the field exam, groundwater is used for approximately 2 weeks in the spring and 1 month in the fall when irrigation shares are unavailable or insufficient to irrigate the POU.

Groundwater right 63-33138 also overlaps at the permitted POU. This right was split from parent right 63-9017 which was originally owned by Larry Green for the irrigation of 73 crop acres with 1.1 cfs. According to a change in ownership received by the Department on 2/27/2007, Larry Green split 63-9017 into 63-33137 and 63-33138, with the split portion 63-33138 being sold to the District. Mr. Green kept ownership of the remaining portion under right 63-33137 which authorizes .53 cfs, 157.3 Af and 35 acres while right 63-33138 authorizes 0.57 cfs, 171 AF and 38 acres of irrigation. Right 63-33138 supplies a duty of 0.015 cfs/acre. This amount of water is insufficient to irrigate the school grounds. Therefore, the District needed to apply for a new permit to supply an adequate amount of water per acre.

When this permit was approved, it included a condition stating that when combined with 63-33138, a diversion rate of 0.04 cfs is authorized. This permit was approved with a rate of 0.95 cfs over 38 acres and this equates to 0.025 cfs/acre. When this rates/acre is combined with the existing 0.015 cfs/acre under 63-33138, they add up to 0.04 cfs/acre. The higher rate per acre beyond 0.02 cfs/acre is authorized by Administrative Memo # 60. The limited diversion rate of 0.04 cfs/acre under rights 63-33438 and 63-11340 was calculated by Steve Lester, an IDWR employee, at the time of permitting. A memo from Steve dated May 19, 2009 details his analysis of 0.04 cfs/acre and is located in the water right file. Additionally, this permit was limited to 0.9 AF/day when it was approved. This volume was derived from diversion rate of 0.95 cfs multiplied by 1.9835 AF/Day, multiplied by 0.5 (0.5 was derived from the claim that irrigation would occur 12 hours of the 24 hours in a day, so $12/24 = 0.5$).

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
63-33138	Groundwater	Irrigation	Decree
63-33137	Groundwater	Irrigation	Decree

Comments: According to Department records, rights 63-33137 and 63-33138 share the well that is used by this permit. Both of these rights were split from parent right 63-9017. See the POU overlap section for additional discussion of rights 63-33137 and 63-33138.

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER L3 (NE¼ NW¼), Sec. 1, Twp 04N, Rge 03W, B.M. CANYON County

Method of Determination:

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	03W	1						9.0	14.0										23.0
								L4											

Total Acres: 23.0

Method of Determination: Site visit, ArcMap and aerial imagery.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

 x Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be

 x 1:24,000 or greater.

 x Aerial Photo Attached (required for irrigation of 10+ acres).

 x Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: A flow measurement was not possible at the time of the exam. Therefore, a theoretical calculation was used to determine the diversion rate. See the attached theoretical calculation sheet.

E. FLOW CALCULATIONS

x Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 23 \times 4.5 = 103.5$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.58 \times 260 \times 1.9835 = 299.1$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 103.5 \text{ rounded to } 104 \text{ AF}$$

A permitted condition limits the use of water to 0.9 AF/day. Using this as the limiting factor for volume, $0.9 \text{ AF} \times 260 = 234 \text{ AFA}$. (260 was determined from the days in the season of use of 3/1-11/15). The volume would be limited to 104 AF as calculated by the irrigation requirement. However, because this right is supplemental to surface water shares provided by the Black Canyon Irrigation District, the water right license will not reflect a volume requirement.

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

The Middleton School District ("District") District applied for this water permit in December 2008. At the time, the District was planning to build a new high school and wanted to ensure they would have an adequate supply of water to irrigate the school grounds once they were completed. The field exam for this permit was conducted on 9/11/2020 by Water Resource Agent Alex Dalgleish. At the time of the exam, I met with Adam, a District maintenance employee.

Water is diverted from a single well with a submersible pump. During the site visit, I collected a GPS point at the well head and confirmed the well is in the Govt. Lot 3, NENW QQ of Section 1, Township 04 North, Range 03 West, B.M. in Canyon County. According the well drillers report, which is associated with well ID 353463, the 16" casing well was completed by Pete Cope Drilling Co. on 5/3/1978. The well was originally drilled for James E. Green for irrigation purposes under water right 63-9017.

Right 63-9017 was established on 8/30/1977 for the irrigation of 73 acres which covered the land where the future high school would be built as well as fields to the south and east. In 2007, an ownership change split this right into 63-33137 and 63-33138 with right 63-33138 being sold to the District. This groundwater right overlaps with the permitted POU. Water right 63-33138 authorizes 0.57 cfs over 38 acres which equates to 0.15 cfs/acre. Due to the nature of irrigating the school grounds, the District can only water 12 hours/day. The permit was approved for the irrigation of 38 acres and 0.95 cfs for a rate of 0.025 cfs/acre. Both existing right 63-33138 and this permit when used together are limited to 0.04 cfs/acre. This higher duty of water beyond the standard 0.02 cfs/acre is authorized by, and discussed in IDWR Administrative processing memo No. 60. In this case, when the irrigation use under this permit and right 63-33138 are averaged out over 24 hours, the rate/acre is likely closer to the standard 0.02 cfs/acre.

During the field exam, an onsite flow measurement was not possible due to the layout and design of the well diversion pipe. Using a theoretical calculation (see attached), the well was estimated to be pumping 0.94 cfs. This rate is very close to the permitted rate of 0.95cfs. However, based on field exam observations and review of aerial imagery, only 23 acres of the 38

authorized under the permit have been irrigated at the POU. In order to maintain the permitted rate/acre of 0.025, the diversion rate will be reduced to 0.58 cfs ($0.58\text{cfs}/23\text{acres}=0.025\text{cfs/acre}$).

This permit and right 63-33138 are used as supplemental rights to surface water delivered by the Black Canyon Irrigation District (BCID). According to Adam, groundwater from the well is used to irrigate the POU for approximately 2 weeks in the spring and 1 month in the fall. The surface water provided by the BCID is delivered into an underground catchment basin along the south side of Willis Rd. 3 headgate valves located above ground can be used to control the amount of water entering the catchment basin. From this underground catchment area, the surface water is pumped up through a 6" pipe using 2, 15 HP, 3-phase induction motors. The pumps are located within a fenced area that houses the power panels, controls and other diversion works used for diverting BCID surface water as well as groundwater from the singular well. From the pumping station, the 6" pipe runs underground and contracts to a 4" pipe that merges with a 4" pipe used to supply groundwater.

The well head is not located within the fenced area but just outside of it to the west/northwest. From the well head, water travels underground and resurfaces above ground within the fenced area near the pumping station. This above ground portion of well pipe is 4" in diameter and two shutoff valves and a check valve are located on the pipe. From here, the 4" pipe travels back underground and joins with the pipe used to deliver BCID.

The main pipe used to deliver water around the perimeter of the POU is 4" in diameter. From an aerial perspective, this mainline makes an "S" shape as it runs throughout the POU. Beginning inside the fenced area, the mainline travels underground west along Willis Rd to the NW corner of the POU. Next, the pipe travels south parallel to Emmett Rd. until it reaches a vehicle entry road to the school facilities just north of the tennis courts. At this point, the pipe travels east along the road until it reaches an unnamed north/south road on the eastern edge of the POU. The mainline then diverts south parallel to the unnamed road until it reaches the SE corner of the POU. Now, the underground line travels back west where it ends near Emmett Rd at the SW corner of the POU.

As the 4" mainline travels throughout the POU, various smaller 2" irrigation lines split off and help disperse water. The 2" lines lead to numerous underground irrigation valve boxes which control countless zones with pop-up sprinkler heads. The sprinkler heads irrigate all grassy areas, trees, shrubs and fields throughout the POU. It should be noted that the football field on the school grounds is composed of artificial turf and is not irrigated. The northern portion of the POU comprised mostly of grassy strips along Willis and Emmett Roads, trees and shrubs around the parking lots and smaller grassy areas near the structures. These portions of the POU are primarily irrigated with pop up Rainbird 1800's and Hunter I-20's with number 5 nozzle sprinkler heads. The larger fields and southern 1/3 of the POU are irrigated with more powerful rotary Rainbird 8005's with number 10 nozzles.

Conditions 1 and 2 were removed from the permit as is standard. Condition 3 (26A) was removed at licensing. Condition 4 (065) was replaced with updated condition 943 since 065 was made inactive on 10/6/2017. Condition 5 (104) was replaced with condition 105 as 104 is considered inactive as of 7/20/2015. Condition WB7 was added to the license since it is normally used with conditions 105 and 943. Conditions 6 and 7 were carried to the license. Condition 8 (R61) was carried over to the license. Condition 9 (004) was removed since ownership of the POU & POD are not an issue. Department records indicate the District owns the land at the POU and POD. Conditions 10 (01M) and 11 (121) were carried to the license.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
IRRIGATION	03/01 to 11/15	0.58 CFS	

Totals: 0.58 CFS

2. Recommended Amendments

_____ Change P.D. as reflected above _____ Add P.D. as reflected above x None

_____ Change P.U. as reflected above _____ Add P.U. as reflected above x None

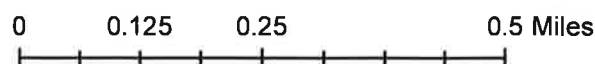
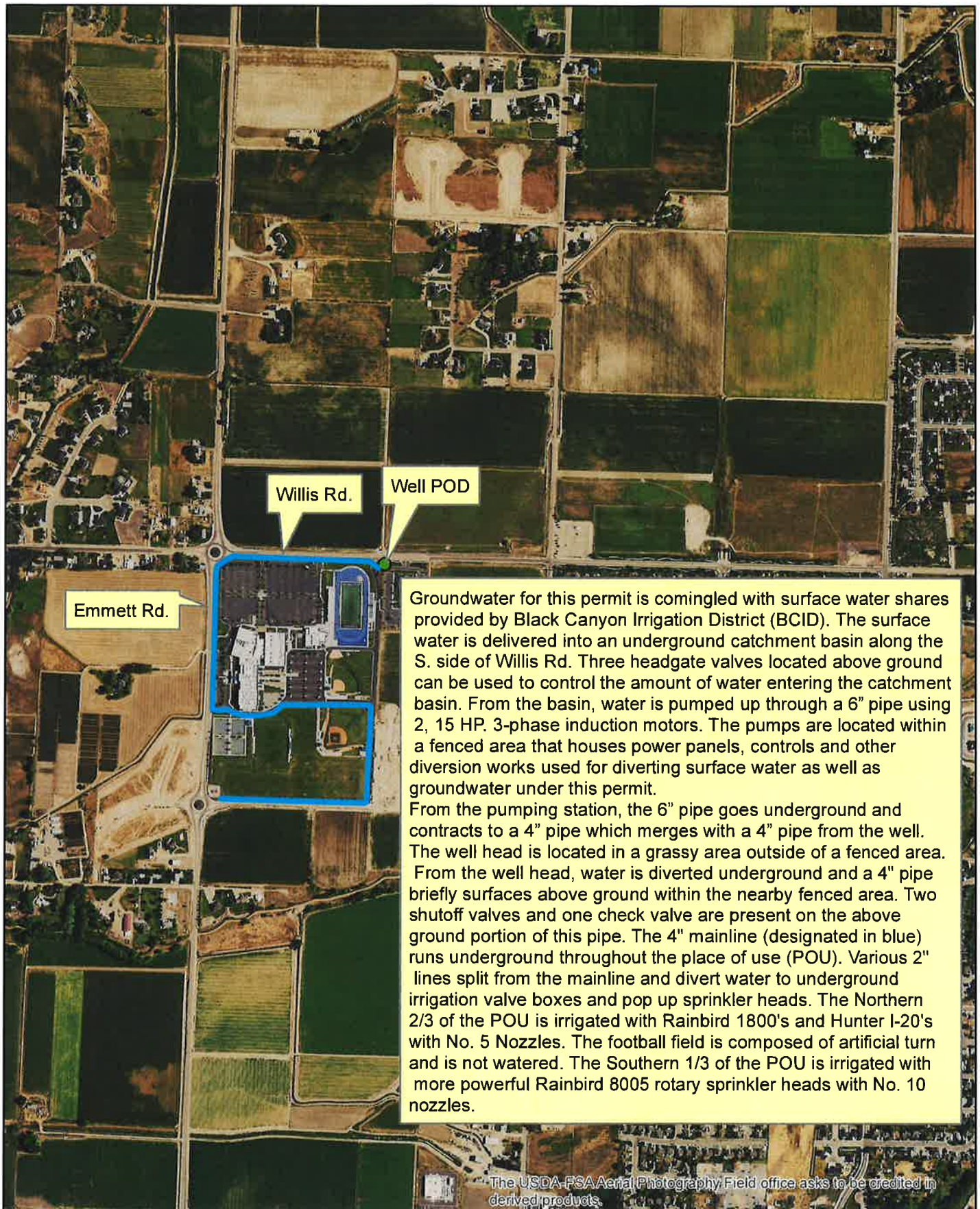
I. AUTHENTICATION

Alex Dagleish - Water Resource Agent

Field Examiner's Name Alex Dagleish Date 12-23-2020

Reviewer _____ Date _____

63-33140 System Diagram Map



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-33140
 Reviewer: Alex Dagleish
 Date of Review: 10/23/2020

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

Well #1
50
165
70
0.94
423

Well # 2

Well # 3
0.94
423.11

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

This system currently uses a single well with a submersible pump. The pumping pressure of 70 PSI was determined from the power panel that the well is connected to. The pump Hp of 50 was determined from the power panel box that is used for the well. The pumping level of 165 feet was determined from the well log. According to the theoretical calculation, the system was pumping an estimated 0.94 cfs or approximately 422 GPM at the time of the exam. This rate is very close to the 0.95 cfs authorized by this permit.

The permitted rate of 0.95 cfs over 38 acres is .025 cfs/acre. During the field exam, approximately 23 acres of irrigation were observed. The permitted rate of 0.95 cfs over 23 acres amounts to .04 cfs/acre, which is an excessive duty of water under the permit alone. In order to remain at the permitted .025 cfs/acre, the licensed rate will be reduced to .58 cfs. (.58/23 acres = .025 cfs/acre).

USE TYPEWRITER OR
BALLPOINT PEN

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

RECEIVED

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

JUN 1 1978

Department of Water Resources

1. WELL OWNER Name <u>James E. Green</u> Address <u>Rt. 1, Caldwell, Idaho 83605</u> Owner's Permit No. <u>63-9017</u>		7. WATER LEVEL Static water level <u>165</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ °F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug																																																																																																																																																																													
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Other <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Drawdown</th><th>Hours Pumped</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Discharge G.P.M.	Drawdown	Hours Pumped																																																																																																																																																																									
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>28</td><td>0</td><td>8</td><td>Topsoil, Hardpan</td><td> </td><td> </td></tr><tr><td> </td><td>8</td><td>21</td><td>Sand, Gravel, Clay</td><td> </td><td> </td></tr><tr><td> </td><td>21</td><td>56</td><td>Sand, Gravel, some River Rock</td><td> </td><td> </td></tr><tr><td> </td><td>56</td><td>65</td><td>Clay w/some Gravel</td><td> </td><td> </td></tr><tr><td> </td><td>65</td><td>79</td><td>Sand Fine</td><td> </td><td> </td></tr><tr><td> </td><td>79</td><td>96</td><td>Sand Fine to Med.</td><td> </td><td> </td></tr><tr><td> </td><td>96</td><td>109</td><td>Clay</td><td> </td><td> </td></tr><tr><td> </td><td>109</td><td>117</td><td>Sand Fine w/some Clay</td><td> </td><td> </td></tr><tr><td> </td><td>117</td><td>119</td><td>Clay</td><td> </td><td> </td></tr><tr><td> </td><td>119</td><td>132</td><td>Sand and Clay mixed</td><td> </td><td> </td></tr><tr><td> </td><td>132</td><td>137</td><td>Clay</td><td> </td><td> </td></tr><tr><td> </td><td>137</td><td>146</td><td>Sand Fine to Crse.</td><td> </td><td> </td></tr><tr><td> </td><td>146</td><td>151</td><td>Brown Clay</td><td> </td><td> </td></tr><tr><td> </td><td>151</td><td>169</td><td>Blue Clay</td><td> </td><td> </td></tr><tr><td> </td><td>169</td><td>183</td><td>Sand Fine to Crse. some Clay</td><td> </td><td> </td></tr><tr><td> </td><td>183</td><td>194</td><td>Clay</td><td> </td><td> </td></tr><tr><td> </td><td>194</td><td>212</td><td>Sand Fine to Crse. some Clay</td><td> </td><td> </td></tr><tr><td> </td><td>212</td><td>213</td><td>Clay</td><td> </td><td> </td></tr><tr><td> </td><td>213</td><td>215</td><td>Sand Fine to Med. some Clay</td><td> </td><td> </td></tr><tr><td> </td><td>215</td><td>218</td><td>Sand Fine to Med.</td><td> </td><td> </td></tr><tr><td> </td><td>218</td><td>221</td><td>Clay</td><td> </td><td> </td></tr><tr><td> </td><td>221</td><td>229</td><td>Sand Fine to Med. some Clay</td><td> </td><td> </td></tr><tr><td> </td><td>229</td><td>246</td><td>Clay</td><td> </td><td> </td></tr><tr><td> </td><td>246</td><td>257</td><td>Sand Fine to Med. some Clay</td><td> </td><td> </td></tr><tr><td> </td><td>257</td><td>259</td><td>Brn. Clay</td><td> </td><td> </td></tr><tr><td> </td><td>259</td><td>299</td><td>Sand Fine to Crse. some Clay</td><td> </td><td> </td></tr><tr><td> </td><td>299</td><td>309</td><td>Clay some Sand</td><td> </td><td> </td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	28	0	8	Topsoil, Hardpan				8	21	Sand, Gravel, Clay				21	56	Sand, Gravel, some River Rock				56	65	Clay w/some Gravel				65	79	Sand Fine				79	96	Sand Fine to Med.				96	109	Clay				109	117	Sand Fine w/some Clay				117	119	Clay				119	132	Sand and Clay mixed				132	137	Clay				137	146	Sand Fine to Crse.				146	151	Brown Clay				151	169	Blue Clay				169	183	Sand Fine to Crse. some Clay				183	194	Clay				194	212	Sand Fine to Crse. some Clay				212	213	Clay				213	215	Sand Fine to Med. some Clay				215	218	Sand Fine to Med.				218	221	Clay				221	229	Sand Fine to Med. some Clay				229	246	Clay				246	257	Sand Fine to Med. some Clay				257	259	Brn. Clay				259	299	Sand Fine to Crse. some Clay				299	309	Clay some Sand		
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4. METHOD DRILLED ☐ Cable ☒ Rotary ☐ Dug ☐ Other		10. Work started <u>4-27-78</u> finished <u>5-2-78</u>																																																																																																																																																																													
5. WELL CONSTRUCTION Diameter of hole <u>28</u> inches Total depth <u>309</u> feet Casing schedule: ☒ Steel ☐ Concrete <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>.250 inches</td><td>16 inches</td><td>2 feet</td><td>170 feet</td></tr><tr><td>.250 inches</td><td>16 inches</td><td>180 feet</td><td>198 feet</td></tr><tr><td>.250 inches</td><td>16 inches</td><td>218 feet</td><td>260 feet</td></tr><tr><td>.250 inches</td><td>16 inches</td><td>300 feet</td><td>309 feet</td></tr></tbody></table> Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Roscoe Moss</u> Type _____ Model No. _____ Diameter <u>16</u> Slot size <u>80</u> Set from <u>170</u> feet to <u>180</u> feet Diameter <u>16</u> Slot size <u>80</u> Set from <u>198</u> feet to <u>218</u> feet Diameter <u>16</u> Slot size <u>80</u> Set from <u>260</u> feet to <u>300</u> feet Gravel packed? ☒ Yes ☐ No Size of gravel <u>3/8</u> minus Placed from <u>80</u> feet to <u>309</u> feet Surface seal depth <u>80'</u> Material used in seal: ☐ Cement grout ☒ Puddling clay ☐ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temporary surface casing ☒ Overbore to seal depth		Thickness	Diameter	From	To	.250 inches	16 inches	2 feet	170 feet	.250 inches	16 inches	180 feet	198 feet	.250 inches	16 inches	218 feet	260 feet	.250 inches	16 inches	300 feet	309 feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	11. DRILLERS CERTIFICATION Firm Name <u>Pete Cope Drilling Co. Inc.</u> Firm No. <u>213</u> P.O. Box <u>561</u> Address <u>Meridian, Idaho 83642</u> Date <u>5-3-78</u> Signed by (Firm Official) <u>[Signature]</u> and <u>[Signature]</u> (Operator)																																																																																																																																													
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6. LOCATION OF WELL Sketch map location must agree with written location. N W E S Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Canyon</u> NE ¼ NW ¼ Sec. <u>1</u> T. <u>4N</u> N/S, R. <u>3E</u> E/W		63																																																																																																																																																																													

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

PHOTOGRAPHER AND DATE OF PHOTOS ALEX DALGLEISH 9/11/2020

FILE NUMBER 63-33140



Pop up sprinklers with well head in background.



The digital screen at the pumping station. At the site visit, system was running at approximately 70 PSI.

LAG MOTOR, & PUMP INFO:			
MOTOR MAKE:	SEE MOTOR	MODEL:	
HP:	27	PHASE:	3
VOLTS:	480	AMPS:	27
PUMP MAKE:	GOLDS	MODEL:	3044C
GPM:	225	TDR:	105
WELL VFD DRIVE, MOTOR, & PUMP INFO:			
MODEL #:	AC8000-U1024-4		
SERIAL #:	200201167		
VFD MAX HP:	90	VFD MAX AMPS:	73
MOTOR MAKE:	SEE MOTOR	MODEL:	
HP:	30	PHASE:	3
VOLTS:	480	AMPS:	68
PUMP MAKE:	SEE PUMP	MODEL:	
GPM:	20000	TDR:	105

Photo from inside the power panel used for the well pump.



Pumping station. The two pumps in the right of photo are used for BCID water.



Headgate valves and underground catchment for BCID water.



Above ground shutoff and check valves for the well.



The photo above shows the pumping station. The white pipe diverts BCID water and goes underground where it connects with the 4" pipe from the well.



Small section of the well diversion pipe that exists above ground.



Active irrigation occurring along Willis Rd. Photo taken looking west.

PHOTOGRAPHER AND DATE OF PHOTOS ALEX DALGLEISH 9/11/2020

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The three photos above show Rainbird 1800 sprinkler head used to water shrubs and trees. The photos were taken at various locations around the parking areas in the northern 2/3 of the POU.



A Rainbird 8005 rotary sprinkler in the large field on the southern 1/3 of the POU.



Standing at the Southern edge of the POU looking north.



Southern Edge of the POU. Photo was taken looking west.