

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33415
Exam Date: 09/24/2024

1. Current Owner:
D YAMAMOTO DEVELOPMENT LLC 5255 W HUBBARD RD KUNA ID 83634
2. Accompanied by: Ray Mebeker
Phone No: 208-880-3715
Relationship to permit Holder: Foreman

3. SOURCE:
GROUND WATER

Method of Determination: Statement of Completion, GIS, Field Exam

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
63-12009	Groundwater	Irrigation	License
63-3126	Groundwater	Irrigation	Decreed
63-3167	Groundwater	Irrigation	Decreed
63-7286	Groundwater	Irrigation	Decreed
63-31741	Groundwater	Municipal	License

Comments: The four water rights for irrigation are partially overlapping and are owned by the owner of this license. 63-3126, 63-7286, 63-12009, and 63-3167 overlap this water right only in section 5 of 01N01E of this water right. 63-12009 only overlaps in the southern section of the place of use for this permit, being section 8 of 01N01E. License 63-12009 does expand beyond the place of use for 63-33415, and the land irrigated by it is not owned by the owner of this license. There are several municipal water rights owned by the City of Kuna which do not interfere with the Yamamoto water rights since they do not use municipal water.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: The above-mentioned water rights' points of diversion listed are the wells located in the SWSW, SESE, NWSW ¼ ¼'s of section 5 01N01E. These wells were also used for this permit. These wells are only used for the rights or permits owned by Yamamoto Farms.

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW¼ SW¼, Sec. 5, Twp 01N, Rge 01E, B.M. ADA County
GROUND WATER SE¼ SE¼, Sec. 5, Twp 01N, Rge 01E, B.M. ADA County
GROUND WATER NW¼ SW¼, Sec. 5, Twp 01N, Rge 01E, B.M. ADA County
GROUND WATER NE¼ NW¼, Sec. 8, Twp 01N, Rge 01E, B.M. ADA County

Method of Determination: Field Examination, GIS, Statement of Completion

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	
01N	01E	5			40.0			37.0 Lot 4	40.0	40.0	40.0	40.0	37.0	40.0	40.0	40.0	40.0	40.0	474.0
01N	01E	8					40.0	40.0	40.0	34.0									154.0

Total Acres: 628.0

Method of Determination: Field Examination, GIS, Statement of Completion

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 1:24,000 or greater.

☒ X☒ X Aerial Photo Attached (required for irrigation of 10+ acres).☒ X☒ X Photo of Diversion and System Attached☒ X

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0057945 (SWSW)	Layne & Bowler	250	V05-542030-0001	Nidec	44728
D0072831 (NENW)	Nidec	250	HO250V2SLHX	Siemens	E121488
306583 (NWSW)	Holloshaft	200	J1417194	Verti-Line	D02933

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Agriculture Flow Meter on wells	Battery powered, Electromagnetic	McCrometer Dura Mag	DM12-2301	DM20-1205	12"	11/11/2020

2. Measurements: Electromagnetic flow meters installed on each working well always provides a measurement of diverted water.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: Each well runs at about 50psi and has an electric McCrometer Dura Mag agriculture flow meter installed. Owner stated that there is roughly five miles of wheel or hand lines used within the place of use and that sprinklers are placed 40 feet apart from one another throughout those lines. The sprinklers used have a 9/64" nozzle and can output at a rate of 4 gallons/minute. If all lines were to run in unison, the system could irrigate at a rate of 2,640 gpm or 5.88 cfs.

$$5 \text{ miles} * 5280 \text{ ft} = 26,400 \text{ ft} / 40 = 660 \text{ sprinklers} * 4 \text{ gpm} = 2,640 \text{ gpm} * 0.00223 \text{ cfs} = 5.88 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 628 \text{ acres} \times 4.5 \text{ AFA} = 2,826 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2.98 \text{ CFS} \times (259 \text{ days} \times 1.9835) = 1,530.9 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1,530.9 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

This permit irrigates 640 acres from ground water at a rate of 2.98 cfs, near the New York Canal. Prior to applying for this permit, the landowner sold land along with their share to a surface water right from the New York Canal. The surface water right was later superseded by adjudication and no longer overlaps with this license. There are four wells used to divert water. Three of these wells are in sec. 5 01N01E, and one is in sec. 8 01N01E. 480 acres of the place of use is in section 5 of 01N 01E, while 160 acres are in sec. 8 of 01N01E. When the permit was issued, a fifth well was listed in section 5 of 01N 01E SESW. While conducting the field exam, the foreman of Yamamoto Farms confirmed that the well was decommissioned during the development period and there is no plan to drill a new well in that location. The SESE Sec 5 01N01E well was not in working condition during the field examination but is expected to be re-drilled soon.

Water rights 63-3126, 63-7286, and 63-7286 are owned by Yamamoto Farms and overlap this place of use. 63-12009 overlaps the place of use for this permit and does expand 210 acres beyond the place of use for this license. All overlapping rights total a combined 850 acres with a total diversion rate of 10.86cfs and 2975 afa diversion volume. A condition was placed on water right 63-12009 for rights 63-12009, 63-3126, 63-3167, and 63-7286 combined diversion rate not to exceed 7.88 cfs or 3582 AFA. This license, 63-33415, provides an additional 2.98 cfs to 640 acres (246 acres being covered under new right). Condition X35 will be placed stating that this license shall not exceed 3825 AF or irrigation of the combined 850 acres for this water right and the above-mentioned licenses. There are nine overlapping municipal water rights owned by the City of Kuna which do not interfere with these water rights since they do not use municipal water

No measurements were taken in the field, as there is an electric McCrometer Dura Mag or Seametrics agriculture flow meter installed on each well. Owner stated that there is roughly five miles worth of wheel or hand lines used within the place of use and that sprinklers are placed 40 feet apart from one another throughout those lines. The sprinklers used have a 9/64" nozzle and can output at a rate of 4 gallons/minute. If all lines were to run in unison, the system could irrigate at a rate of 2,640 gpm, or 5.9 cfs. The permitted rate of 2.98 cfs will be licensed. As stated by the foreman of Yamamoto Farms, the four well pumps can produce 5,425 gallons per minute, or 12.09 cfs.

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	2.98 CFS

Totals: 2.98 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 Kate Englund - Water Resource Agent

Field Examiner's Name Kate Englund Date 9/26/2024

Reviewer  Date 06/29/25

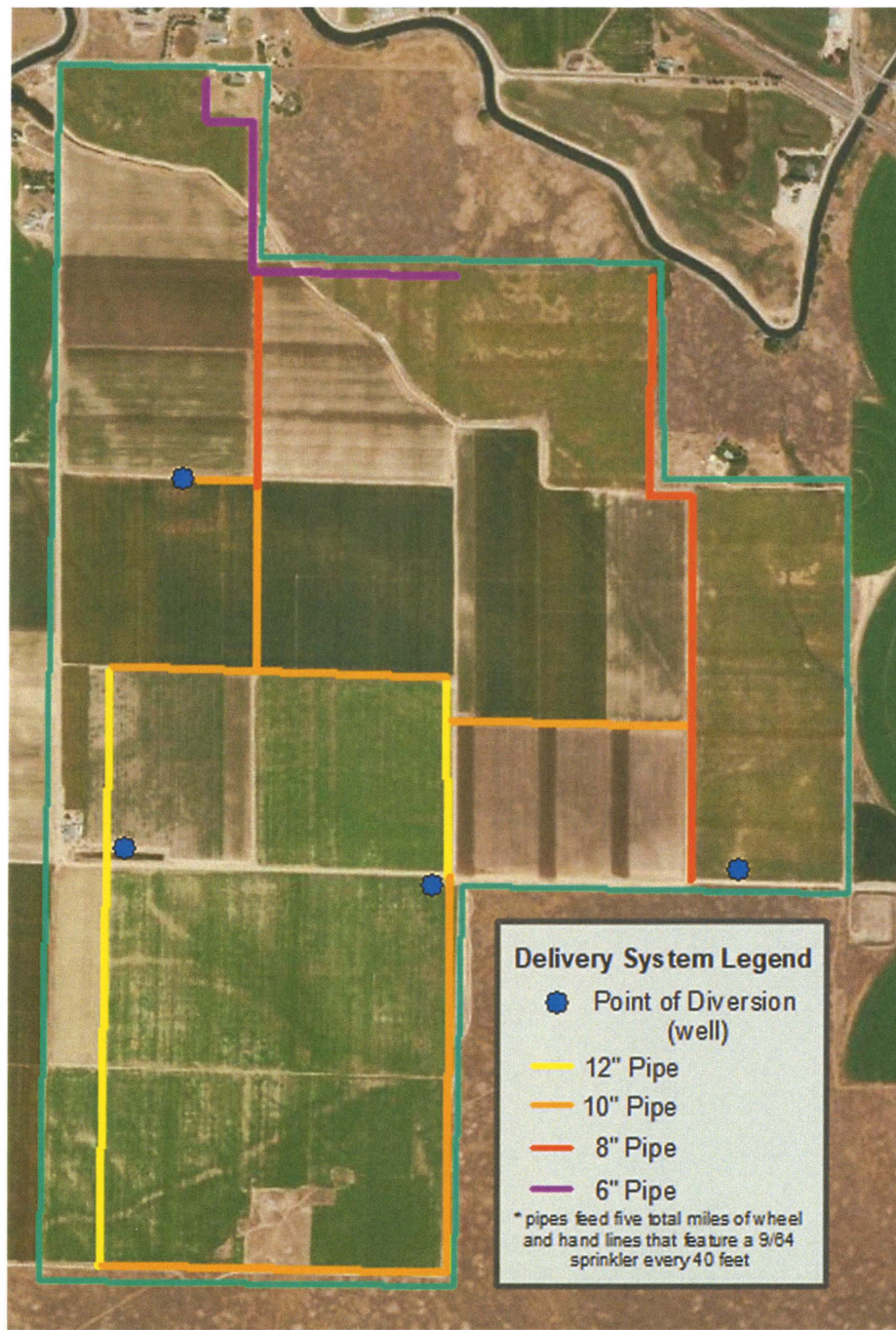


Figure 1 Delivery system diagram showing the irrigated area with the main pipelines from wells to the wheel or hand lines. Each wheel or hand line has a sprinkler with 9/64in. nozzle that will output four gallons per minute. The irrigator stated that there is five miles worth of line which is not outlined in the diagram due to their transient locations.

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

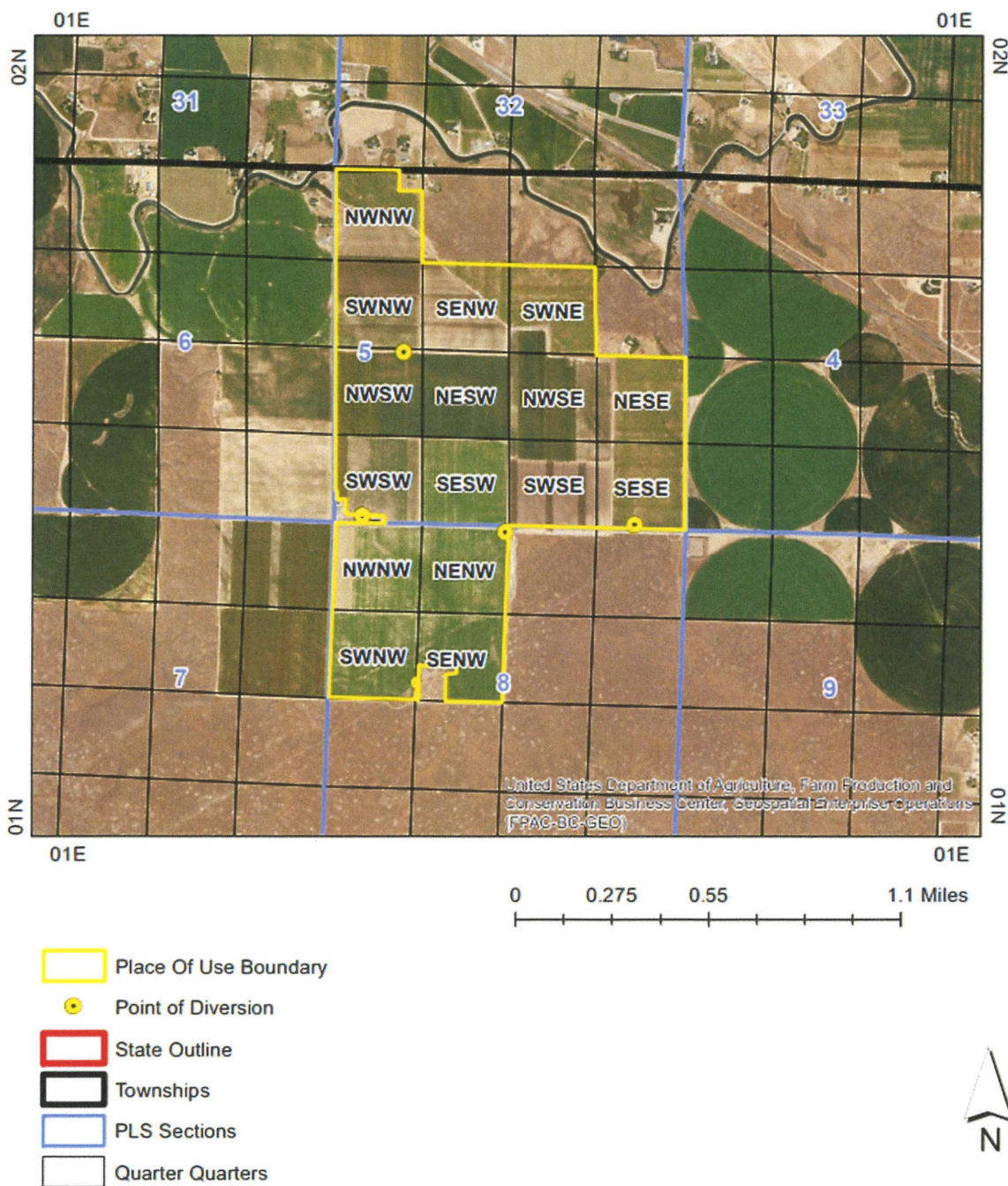


Figure 2 Map of permit, including place of use and points of diversion.



Figure 3 Well metal tag showing ID D0057945 for the well located in the SWSW $\frac{1}{4}$ of sec 5 01N 01E.



Figure 4 Pump ID number associated with well D0057945.

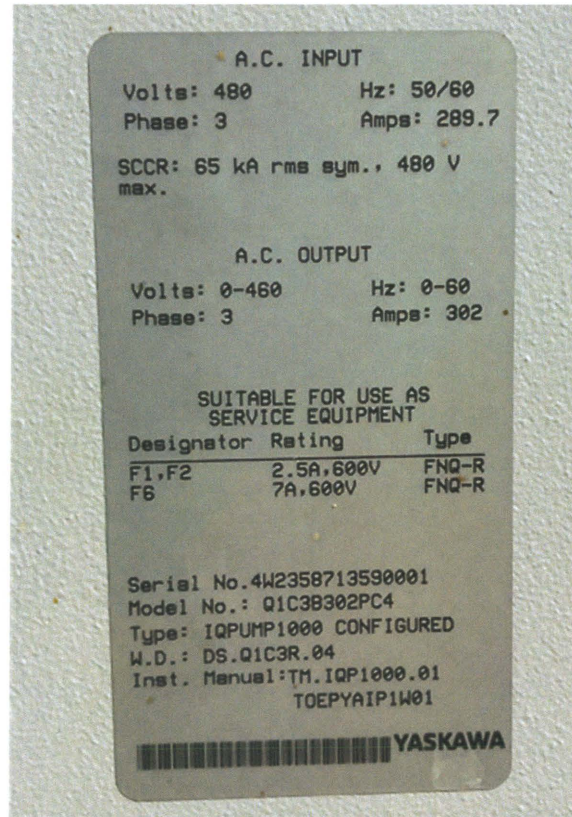


Figure 5 Yaskawa pump specifications tag for well D0057945.



Figure 6 Motor specification tag for well D0057945.



Figure 7 Digital well pump monitor for well D0057945.



Figure 8 Pressure gage for well D0057945 reading 45 PSI, also reflected on the digital monitor screen in figure 5.

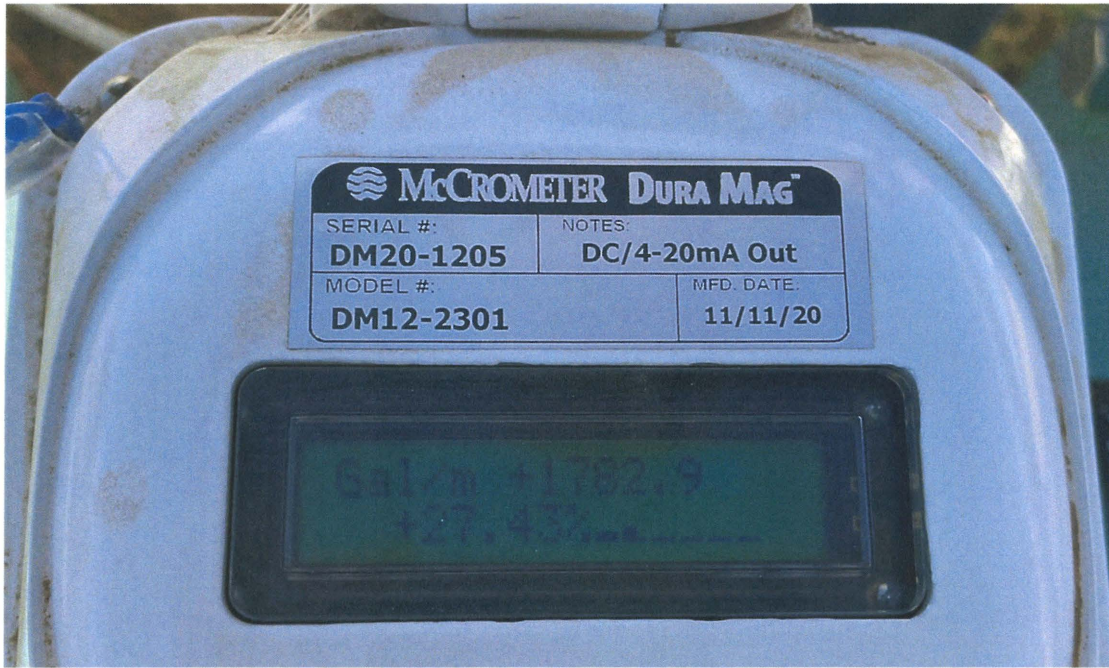


Figure 9 McCrometer Duramag agriculture flow meter on well D0057945 showing that the well pump was outputting at a rate of 1782.9 gallons per minute.



Figure 10 Well D0072831 located in the NENW $\frac{1}{4}$ of sec 8 01N 01E, included within the place of use of this permit.

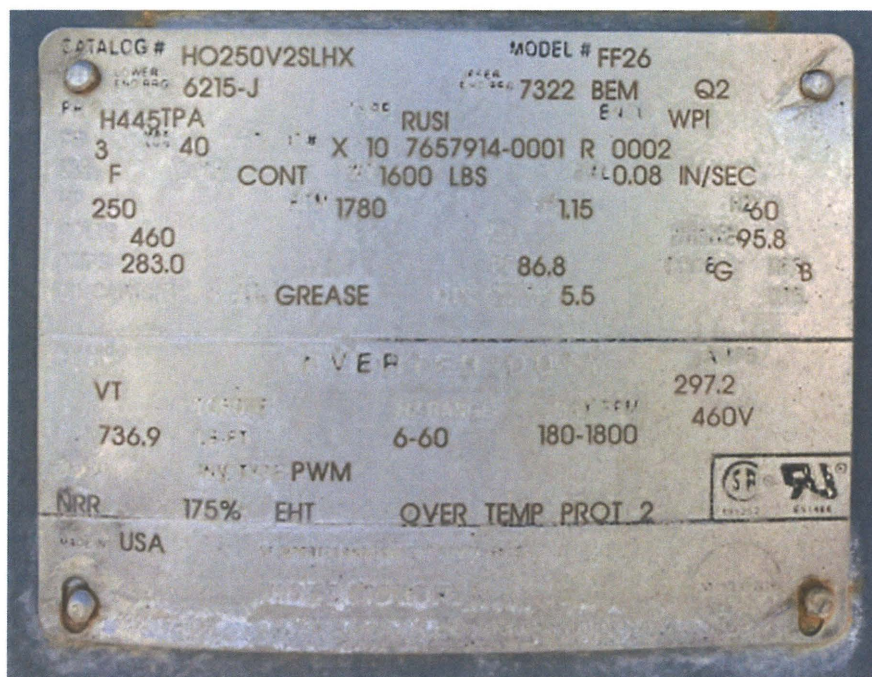


Figure 11 Pump motor specification tag for well D0072831.



Figure 12 Well tag for NENW section 8 01N 01E well.



Figure 13 Pressure gage reading 48 psi for pump associated with well D0072831.

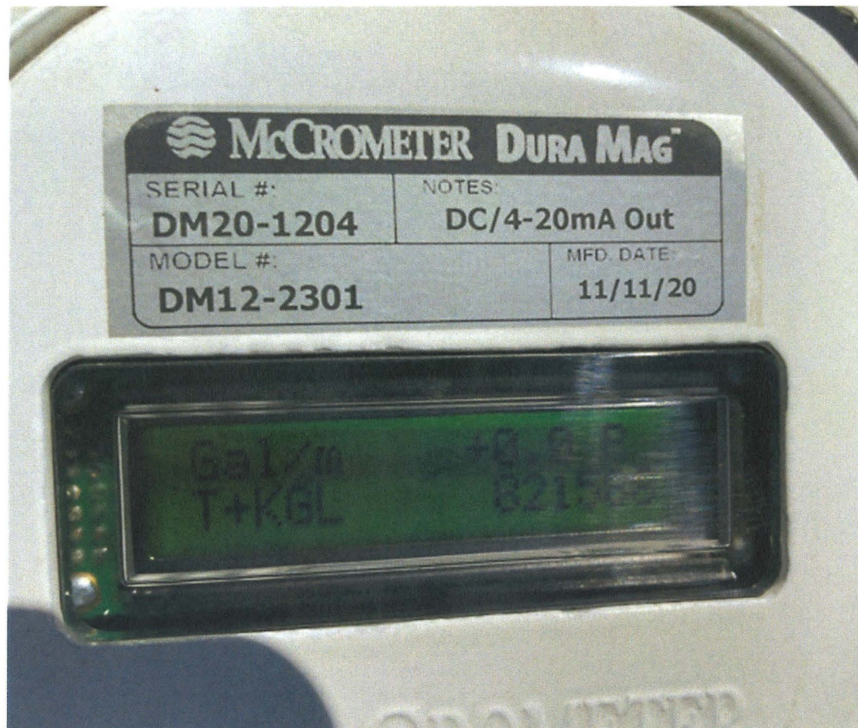


Figure 14 McCrometer Duramag agriculture flow meter on well D0072831 showing 0 gallons per minute. The well was not running at the time of the field exam.



Figure 15 Well 306583 located in the NWSW $\frac{1}{4}$ of sec 5 01N 01E, included within the place of use of this permit.

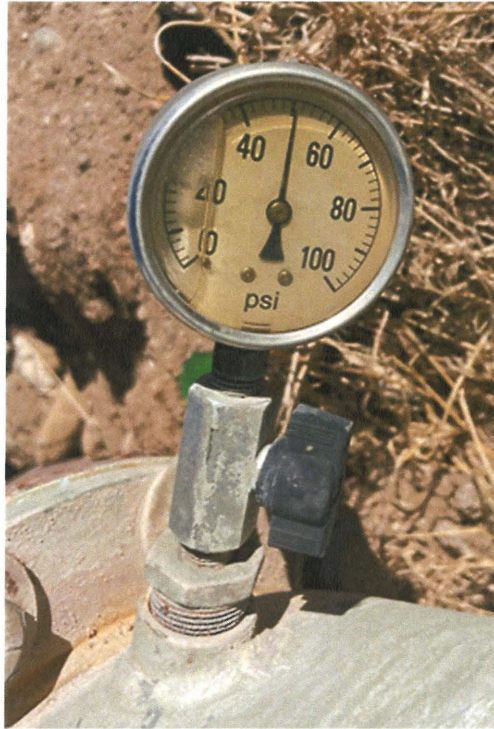


Figure 16 Pressure gage reading 50 psi on well 306583



Figure 17 Seametrics agriculture flow meter on well 306583 showing an output of 1014 gallons per minute.



Figure 18 Pump motor specification tag for well 306583.



Figure 19 Pump specification tag for well 306583.

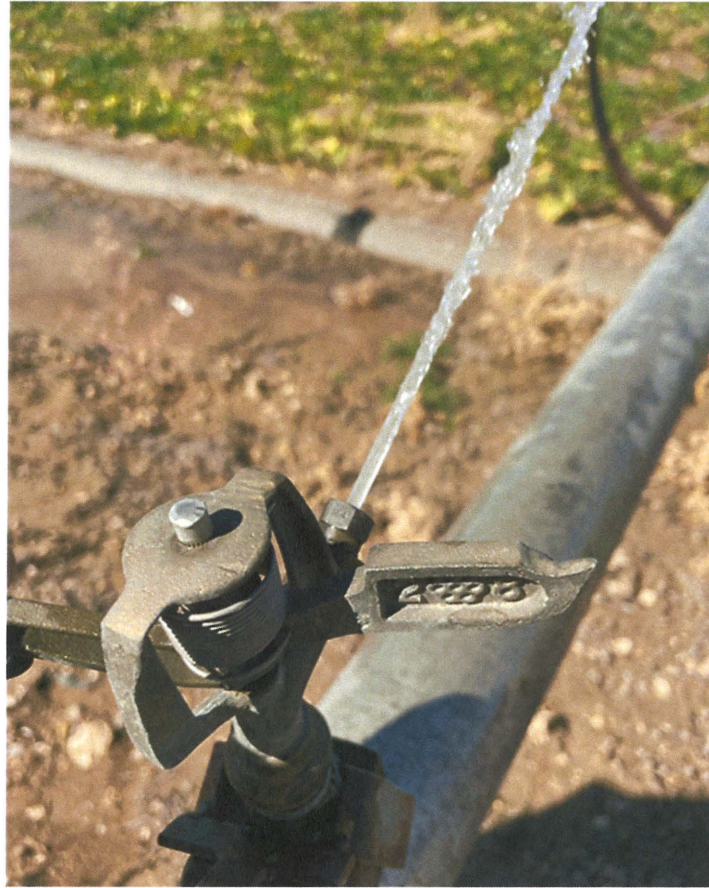


Figure 20 Rotary sprinkler used throughout the irrigation water delivery system. These sprinklers have a nozzle size of 9/64 in. and are placed on the wheel and hand lines, 40 feet apart and out put water at a rate of 4 gallons per minute.



Figure 21 Example of the wheel lines that are used throughout the farm.

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only			
Well ID No.	813900		
Inspected by			
Twp	Rge	Sec	
	1/4	1/4	1/4
Lat:	:	:	Long:
:	:	:	:

1. WELL TAG NO. D D0031297
 DRILLING PERMIT NO. _____
 Water Right or Injection Well No. 63-3126, 3167, 7286

2. OWNER:
 Name Duane Yamamoto
 Address PO Box 64
 City Kuna State ID Zip 83634

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 1 North X or South ☐
 Rge. 1 East X or West ☐
 Sec. 5 1/4 1/4 SW 1/4
 Gov't Lot _____
 County ADA 10 acres 40 acres 160 acres

Lat: _____ Long: _____
 Address of Well Site End of Locust Grove East SW6

City Kuna

LI. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply

☐ New Well ☐ Modify ☐ Abandonment ☒ Other Replace (Replacement etc.)

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
Bentonite	0	50	4050 #s	OVERBORE

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 339

Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
16	+2	339	1/4	STEEL	☒	☐	☒	☐

Length of Headpipe 0 Length of Tailpipe 0

Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method Factory slot

Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
236	336	1/8x3	3200	16	STEEL	☒	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

223 ft. below ground Artesian pressure _____ lb.

Depth flow encountered 240 ft. Describe access port or control devices:

2" pipe welded into side of casing

12. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
1800	20	243	8 HRS

Water Temp. 70 Bottom hole temp. 70

Water Quality test or comments: good

233 Depth first Water Encounter 233

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
20	0	4	TOPSOIL		
20	4	7	GRAVEL		
20	7	50	CLAY & SAND		
20	50	55	BROWN SAND		
16	55	68	BROWN SAND		
	68	78	GRAVEL - SAND		
	78	80	CLAY & SAND		
	80	90	SAND		
	90	105	SAND - SOME PEA GRAVEL		
	105	188	SAND and CLAY LAYERS		
	188	229	WHITE CLAY		
	229	233	SILT SAND - 1st WATER	☒	
	233	240	CLAY		
	240	242	SAND & CLAY	☒	
	242	257	SAND	☒	
	257	267	CLAY		
	267	270	CLAY and SAND LAYERS	☒	
	270	298	BROWN SAND	☒	
	298	299	CLAY		
	299	339	SAND	☒	

CONCRETE PLUG
 PLACED IN BOTTOM
 2 BAGS PORTLAND CEMENT

RECEIVED

JUL 07 2004

WATER RESOURCES
 WESTERN REGION

Completed Depth _____ (Measurable)

Date: Started APR 12 2004 Completed JUNE 15 04

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Johnston Drilling Firm No. 92

Principal Driller Sam Johnston Date July 5 04

Driller or Operator II Sam Johnston Date July 5 04

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
 Operator I must have signature of Driller/Operator II.

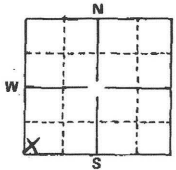
USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Reclamation

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer
within 30 days after completion or abandonment of the well.

RECEIVED
APR 8 1970
Department of Reclamation

1. WELL OWNER Name <u>Duane Yamamoto</u> Address <u>Avenue A Tuna, Idaho</u> Owner's Permit No. <u>63-7286</u>	7. WATER LEVEL Static water level <u>217</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality <u>Good-some sand</u> 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>Draw Down</th><th>Hours Pumped</th></tr></thead><tbody><tr><td>1500</td><td>210</td><td>26 hrs.</td></tr><tr><td>2250</td><td>265</td><td>8 hrs.</td></tr></tbody></table>	Discharge G.P.M.	Draw Down	Hours Pumped	1500	210	26 hrs.	2250	265	8 hrs.																																																																			
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock	9. LITHOLOGIC LOG <u>108045</u> <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>16</td><td>0</td><td>1</td><td>top soil</td><td></td><td>X</td></tr><tr><td></td><td>1</td><td>7</td><td>white hardpan</td><td></td><td>X</td></tr><tr><td></td><td>7</td><td>32</td><td>sand, gravel</td><td></td><td>X</td></tr><tr><td></td><td>32</td><td>190</td><td>light brown sand</td><td></td><td>X</td></tr><tr><td></td><td>190</td><td>210</td><td>sand, small am't. clay</td><td></td><td>X</td></tr><tr><td></td><td>210</td><td>327</td><td>light brown sand</td><td>X</td><td></td></tr><tr><td></td><td></td><td></td><td>S.W.L. showed at 220'</td><td>X</td><td></td></tr><tr><td></td><td>327</td><td>332</td><td>sticky brown clay</td><td></td><td>X</td></tr><tr><td></td><td></td><td></td><td>set casing in clay</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>Started to bail sand to try to clean up well. After 4 days the clay and bentonite gave way around the pipe which had been used as a seal. To displace the sand being taken out, 160 yds. of 7/16 minus gravel was added. Test pump installed. Each time well was backflushed it took approximately 1 yd. gravel. It was decided to go to 1 1/2 gravel-150 yds. was added. After 3 1/2 days of pumping gravel showed at perforations and well began to pick up to a safe 2250 GPM.</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>3 yds. of concrete was used in seal & pump base. 10" pipe was installed in base to feed gravel as needed.</td><td></td><td></td></tr></tbody></table>	Hole Diam.	Depth		Material	Water		From	To	Yes	No	16	0	1	top soil		X		1	7	white hardpan		X		7	32	sand, gravel		X		32	190	light brown sand		X		190	210	sand, small am't. clay		X		210	327	light brown sand	X					S.W.L. showed at 220'	X			327	332	sticky brown clay		X				set casing in clay						Started to bail sand to try to clean up well. After 4 days the clay and bentonite gave way around the pipe which had been used as a seal. To displace the sand being taken out, 160 yds. of 7/16 minus gravel was added. Test pump installed. Each time well was backflushed it took approximately 1 yd. gravel. It was decided to go to 1 1/2 gravel-150 yds. was added. After 3 1/2 days of pumping gravel showed at perforations and well began to pick up to a safe 2250 GPM.						3 yds. of concrete was used in seal & pump base. 10" pipe was installed in base to feed gravel as needed.		
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4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other																																																																													
5. WELL CONSTRUCTION Diameter of hole <u>16</u> inches Total depth <u>332</u> feet Casing schedule: ☒ Steel ☐ Concrete plus 1' 4" <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>1/4</u> inches</td><td><u>16</u> inches</td><td><u>0</u> feet</td><td><u>332</u> feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Was a packer or seal used? ☐ Yes ☐ No Perforated? ☒ Yes ☐ No How perforated? ☒ Factory ☐ Knife ☐ Torch Size of perforation <u>3/16</u> inches by <u>3</u> inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>2800</u> perforations</td><td><u>222</u> feet</td><td><u>322</u> 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 _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☒ Yes ☐ No Size of gravel <u>5/16-1 1/2</u> Placed from <u>7 ft.</u> feet to <u>327</u> feet Surface seal? ☒ Yes ☐ No To what depth <u>7</u> feet Material used in seal ☒ Cement grout ☐ Puddling clay	Thickness	Diameter	From	To	<u>1/4</u> inches	<u>16</u> inches	<u>0</u> feet	<u>332</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	<u>2800</u> perforations	<u>222</u> feet	<u>322</u> feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																																									
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_____ inches	_____ inches	_____ feet	_____ feet																																																																										
Number	From	To																																																																											
<u>2800</u> perforations	<u>222</u> feet	<u>322</u> feet																																																																											
_____ perforations	_____ feet	_____ feet																																																																											
_____ perforations	_____ feet	_____ feet																																																																											
6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>Ada</u> SW 1/4 SW 1/4 Sec. <u>5</u> T. <u>1</u> N. 1/4 R. <u>1</u>	10. Work started <u>Feb. 6, 1970</u> finished <u>March 26, 1970</u> 11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. W.E. Stevens and Sons <u>153</u> Driller's or Firm's Name _____ Number _____ <u>3709 Hawthorne Drive</u> <u>Boise, Idaho 83703</u> Address _____ <u>Wayne E. Stevens</u> <u>April 8, 1970</u> Signed By _____ Date _____																																																																												

USE ADDITIONAL SHEETS IF NECESSARY

399246
SW SW

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0057945

Drilling Permit No. 912067-860717

Water right or injection well # 63-3126,3167,7286,12009

2. OWNER: Duane Yamamoto

Name _____

Address PO Box 64

City Kuna State ID Zip 83634

3. WELL LOCATION:

Twp. 1 North ☒ or South ☐ Rge. 1 East ☒ or West ☐

Sec. 5 1/4 SW 1/4 SW 1/4

Gov't Lot _____ County Ada

Lat. N 43° 26.695 (Deg. and Decimal minutes)

Long. W 116° 22.347 (Deg. and Decimal minutes)

Address of Well Site NE corner Locust Grove & Barker Rd

3250 S. Locust Grove Rd City Kuna

(Give at least name of road + distance to road or landmark)

Lot. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK:

☐ New well ☒ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☐ Mud Rotary ☐ Cable ☒ Other Reverse

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
5/8" Bentonite	0	261	30000	Dry pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
16	+3	295	.250	Steel	☒	☐	☐	☒
16	315	337	.250	Steel	☒	☐	☐	☒
16	377	405	.250	Steel	☒	☐	☐	☒

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☒ Y ☐ N Type Johnson Wire Wrap

Method of installation Lower in

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
295	315	.030		16	Galvanize	
337	377	.030		16	Galvanize	
405	445	.030		16	Galvanize	

Length of Headpipe _____ Length of Tailpipe 5'w/bottom plate

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
#8-16 Sand	261	450	36000	Dry pour

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) _____ Static water level (ft) 224

Water temp. (°F) 67° see note Bottom hole temp. (°F) 73.8° see note

Describe access port 2" pipe on side

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
25	2000	480	☒	☐	☐	☐

Test method:

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
24	0	6	Top soil		X
24	6	43	Medium to coarse sand, large gravel		X
24	43	71	Fine-coarse sand		X
24	71	73	Brown clay		X
24	73	81	Medium brown sand		X
24	81	83	Brown clay		X
24	83	141	Fine-medium sand		X
24	141	145	Tan rusty clay		X
24	145	207	Fine sand		X
24	207	209	Tan clay		X
24	209	220	Fine sand		X
24	220	233	Tan clay		X
24	233	255	Fine-coarse sand	X	
24	255	261	Clay sand mix	X	
24	261	322	Fine-medium sand	X	
24	322	337	Tan clay		X
24	337	375	Fine-coarse sand	X	
24	375	385	Clay sand mix	X	
24	385	402	Fine-medium sand	X	
24	402	408	Tan clay		X
24	408	444	Fine-coarse sand	X	
24	444	450	Tan clay		X

NOTE:

Bottom hole temp taken with a
Hobo temp logger.

Bottom hole temp 73.8° @ 450'

Water temp 67° taken while pump
testing

Completed Depth (Measurable): 450

Date Started: Mar 1, 2011

Date Completed: Apr 19, 2011

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Riverside Inc

Co. No. 333

*Principal Driller

Date 4/28/11

*Driller

Date 4-26-11

Date _____

Date 4/26/11

Principal Driller and rig operator are required.

SW SW
on map

430044 / D0057945

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0072831
Drilling Permit No. 972992 - 879049
Water right or injection well # 63-33415
2. OWNER: D Yamamoto Development

Name _____
Address 5255 West Hubbard Rd
City Kuna State ID Zip 83634

3. WELL LOCATION:

Twp. 01 North ☒ or South ☐ Rge. 01 East ☒ or West ☐
Sec. 08 1/4 NE 1/4 NW 1/4

Gov't Lot _____ County Ada
Lat. 43 ° 26.6664 (Deg and Decimal minutes)
Long -116 ° 21.8472 (Deg and Decimal minutes)
Address of Well Site W. Barker Rd

City Kuna
(Give at least name of road • Distance to Road or Landmark)
Lot. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☐ Mud Rotary ☐ Cable ☒ Other Reverse Rotary

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Bentonite chips	0	300	35,000 lbs	Dry pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
16	+2	335	.250	Steel	☒	☐	☐	☒
16	355	405	.250	Steel	☒	☐	☐	☒
16	445	455	.250	Steel	☒	☐	☐	☒

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type Wire Wrap

Method of installation Lower in

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
335	355	.030		16	galvanized	
405	445	.030		16	galvanized	
455	495	.030		16	galvanized	

Length of Headpipe _____ Length of Tailpipe 3'

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
#8-16 Sand	300	500	43,200 lbs	Dry pour

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 212 Static water level (ft) 212'
Water temp. (°F) 67° Bottom hole temp. (°F) 73.8°
Describe access port 2" pipe on side

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
32	1800	240

Test method:

Pump	Bailer	Air	Flowing artesian
☒	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
24	0	4	Top soil		X
24	4	11	Brown, rust clay		X
24	11	78	Coarse sand, gravel		
24	78	81	Clay		X
24	81	145	Fine-coarse sand, some gravel		
24	145	158	Tan clay		X
24	158	203	Fine-medium sand	X	
24	203	208	Tan clay		X
24	208	218	Fine-medium sand	X	
24	218	222	Tan clay		X
24	222	227	Fine-medium sand	X	
24	227	240	Rusty tan clay		X
24	240	258	Fine-coarse sand	X	
24	258	261	Tan clay		X
24	261	302	Fine-coarse sand	X	
24	302	309	Tan clay		X
24	309	323	Fine-medium sand	X	
24	323	331	Tan sandy clay		X
24	331	361	Fine-coarse sand	X	
24	361	369	Tan clay		X
24	369	391	Fine-medium sand	X	
24	391	397	Tan clay		X
24	397	445	Fine-coarse sand	X	
24	445	455	Fine-medium sand w/ clay	X	
24	455	495	Coarse sand	X	
24	495	500	Tan clay		X

Completed Depth (Measurable): 498'

Date Started: Jun 15, 2016

Date Completed: Jul 28, 2016

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Riverside Inc Co. No. 333

*Principal Driller [Signature] Date 8/9/16

*Driller [Signature] Date 8/9/16

*Operator II [Signature] Date _____

Operator I [Signature] Date 8-9-16

* Signature of Principal Driller and rig operator are required.

AUG 15 2016

WATER RESOURCES

NEMW