

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11869
Exam Date: 6/15/2016

1. Current Owner:
J P JOHNSTON 10770 JANIE RD BOISE ID 83714 (208) 869-0740
2. Accompanied by: JP Johnston
Phone No: 208-869-0740
Address: 10770 JANIE RD
Relationship to Permit Holder: Self

3. SOURCE: GROUND WATER**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 63-22395
2. Other water rights with the same point-of-diversion: none

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L1 (NE $\frac{1}{4}$ NE $\frac{1}{4}$) Sec. 3, Twp 04N, Rge 01E, B.M. ADA County

Method of Determination: Water right file and GPS, verified through ArcMap

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	01E	3	X L 1																

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	01E	3	0.5 L 1																0.5

Total Acres: 0.5

Method of Determination: Water right file and field exam verified through ArcMap

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
A0019180	Unknown	1	Unknown	Unknown	Unknown

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1. Measurements: We took pressure measurements off of a three sprinkler head zone. This is the largest zone that they run at a time.

E. FLOW CALCULATIONS

 x Additional Computation Sheets Attached

Measured Method: Pitot tube on pressure gage.

2.3 GPM @ 38 PSI

2.3 GPM X 4 sprinklers = 9.2 GPM

9.2/448.83 = 0.02 cfs

According to Administrative memo 17 irrigation of small acreage is allowed a rate of 0.03 cfs for up to five acres of irrigation

Theoretical shows that the system is capable of pumping 0.03 cfs with a 1 ½ hp pump see attached.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R} = (0.5 \text{ Acres Irrigated}) \times (4.5 \text{ Irrigation Requirement}) = 2.3 \text{ af}$

$V_{D.R} = [0.02 \text{ Diversion Rate (cfs)}] \times (260 \text{ Days in Irrigation season}) \times 1.9835 = 10.3 \text{ af}$

$V = \text{Smaller of } V_{I.R} \text{ and } V_{D.R} = 2.3 \text{ af}$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS:

Aerial imagery and field exam confirmed 1.0 acre of irrigation and 6 horses. POU comparison shows several domestic, irrigation and stockwater rights in the same legal description. 63-22395 is a domestic for one home and stockwater (1-3 horses & range cattle) right which is located in the same Lot and Block for this subdivision. 63-22395 is a domestic for one home and stockwater (1-3 horses & range cattle) right which is located in the same Lot and Block for this subdivision. I checked the Ada County assessors website and was unable to locate the parcel number listed on the proof report for 63-22395. Since the applicant already is authorized stockwater sufficient under 63-22395 to support his 6 horses, I removed the stockwater component from this right. This right will be licensed for 0.5 acres with no overlap with their domestic right. Therefore they will be able to irrigate ½ acre with this right and ½ acre with their domestic. This permit falls within the service area of a municipal right for the City of Eagle. However, this property is not serviced by the City of Eagle. Sprinklers were set up off of the domestic well for dust control in his coral/ training areas. I was able to find the well drillers report for the well drilled for this lot (1981). The well was drilled to 260 feet to meet the depth requirement. There was also a well drillers report that was for 1977. The home was built in 1978 according to the Ada County assessors web site. It is safe to presume that the 1978 report is from the domestic well

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	0.02 CFS	2.3 AF
	<u>Totals:</u>	0.02 CFS	2.3 AF

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

Field Examiner's Name Clay Webster Date 7/8/2016

Reviewer _____ Date _____



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

6

Water Right No.: 63-11869
 Examiner: Clay Webster
 Date of Field Exam: 6/13/2016

P/D No.:	Option 1	OPTION 2	OPTION 3	
PUMP HORSEPOWER	1	1.5	3	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	240	240	240	
DISCHARGE PRESSURE	38	38	38	
FRICTION	0	8	8	
RATE OF FLOW (cfs)	0.02	0.03	0.06	AVE
(gpm)	8.4	12.4	24.7	0.03 15.2

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.

Examiners Notes:

We were unable to verify the size of the pump used for this system . The measurements taken are consistent with a 1 hp pump



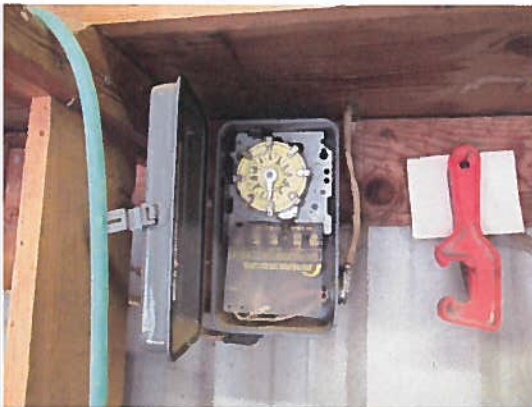
Domestic Well A 0019181 (for WR 63-22395)



Irrigation pressure system



Pressure tank for irrigation system



Sprinkler control box



Control box for irrigation pump in barn

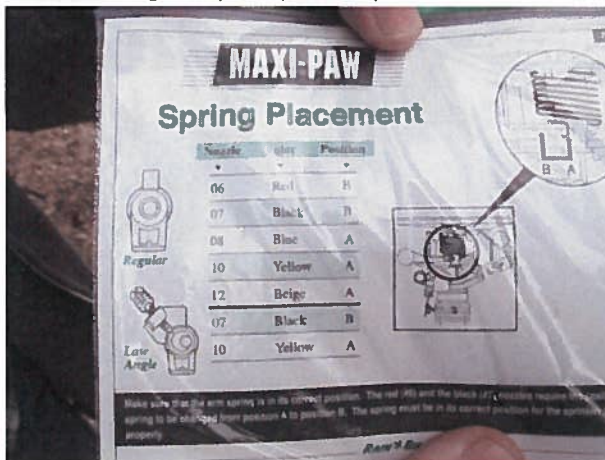




Well head for irrigation system (A0019181)



06 mm sprinkler nozzle



Verification of sprinkler nozzle size



Lawn and landscaping irrigation



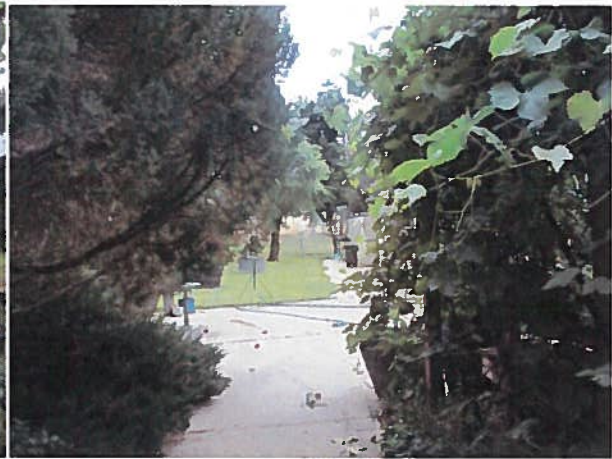
Landscaping



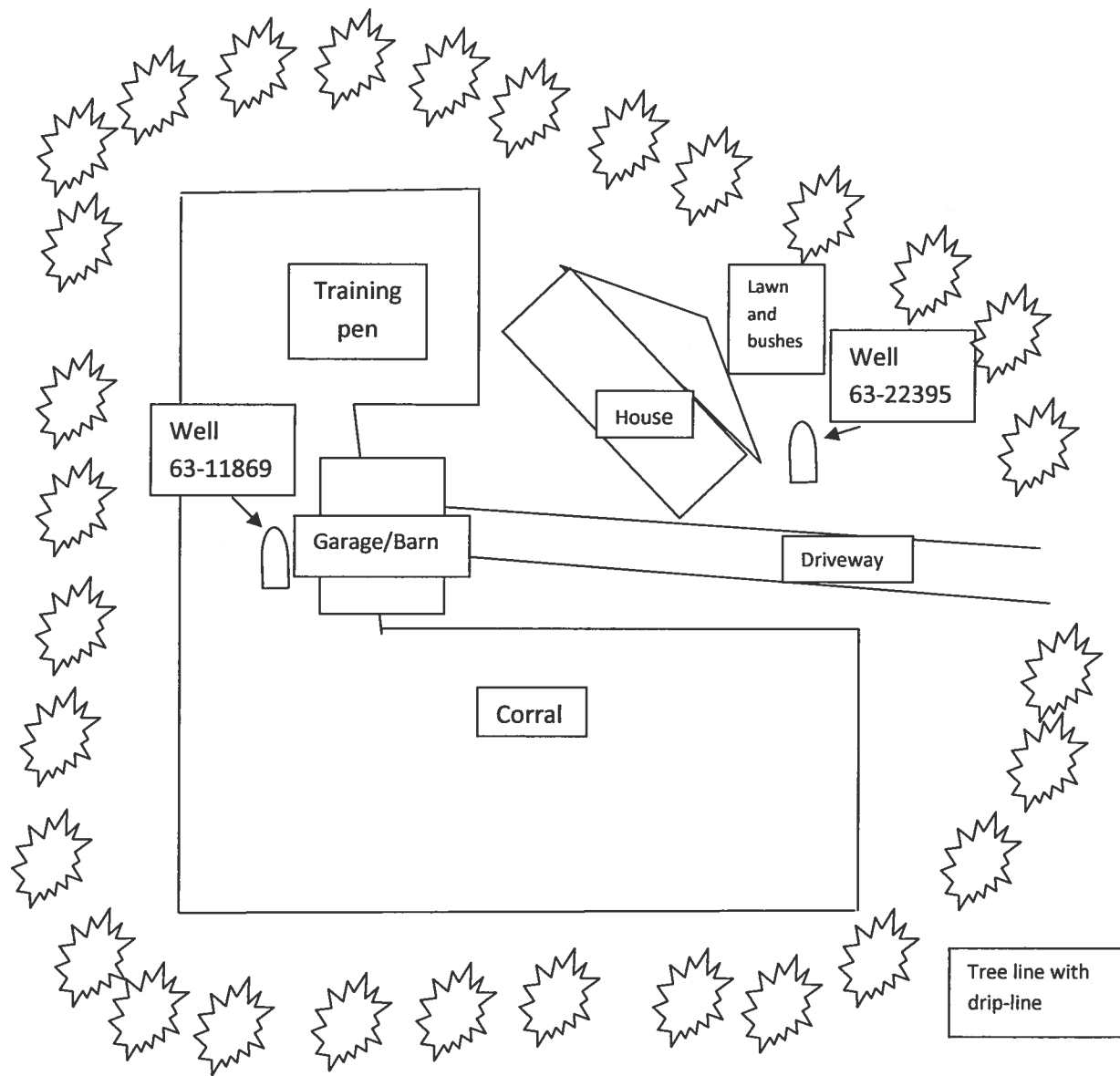
Landscaping from between treeline and lawn in previous picture below



Sprinklers on risers beyond tree lines to irrigate landscaping



Sprinkler irrigating front of property from irrigation pump





Layout Map for 63-11869

WELL DRILLER'S REPORT

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.

[illegible]

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

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

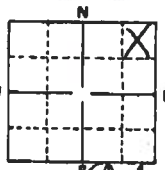
Location Corrected by IDWR To:

WELL DRILLER'S REPORT

T04N R01E Sec. 3 NENE

By: manders 2014-06-03

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.

1. WELL OWNER Name: <u>Ronal Hengley</u> Address: <u>Eagle, Idaho</u> Owner's Permit No. _____		7. WATER LEVEL Department of Water Resources Western Regional Office Static water level: <u>90</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 Discharge G.P.M. <u>10</u> Draw Down <u>60'</u> Hours Pumped <u>1</u>																																									
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG <u>042953</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>9"</td><td>0</td><td>20</td><td>Brown sandy clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>20</td><td>65</td><td>" "</td><td></td><td>X</td></tr><tr><td>6"</td><td>65</td><td>165</td><td>Blue clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>165</td><td>170</td><td>" "</td><td>X</td><td></td></tr><tr><td>6"</td><td>170</td><td>200</td><td>" "</td><td></td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	9"	0	20	Brown sandy clay		X	6"	20	65	" "		X	6"	65	165	Blue clay		X	6"	165	170	" "	X		6"	170	200	" "		
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4. METHOD DRILLED ☐ Cable ☒ Rotary ☐ Dug ☐ Other																																											
5. WELL CONSTRUCTION Diameter of hole: <u>6</u> inches Total depth: <u>200</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness: <u>.250</u> inches Diameter: <u>6</u> inches From: <u>1</u> feet To: <u>79</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet 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 Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet 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 _____ Placed from _____ feet to _____ feet Surface seal depth: <u>20'</u> Material used in seal ☐ Cement grout ☐ Pudding clay ☒ Well cuttings Sealing procedure used ☐ Slurry pit ☐ Temporary surface casing ☒ Overbore to seal depth																																											
6. LOCATION OF WELL Sketch map location must agree with written location. <u>63</u>  Subdivision Name _____ Lot No. _____ Block No. _____ County: <u>Ada</u> <u>NE 1/4 NE 1/4 Sec. 3, T. 5 N, R. 1 E</u>		10. Work started <u>4/11/77</u> finished <u>4/12/77</u>																																									
		11. DRILLERS CERTIFICATION Firm Name: <u>Lo Well Drilling</u> Firm No: <u>212</u> Address: <u>2305 Canna Dr.</u> Date: <u>5/1/77</u> Signed by (Firm Official): <u>Frank Shumie</u> and (Operator): <u>Frank Shumie</u>																																									

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

Domestic Well
home built in 1978 according to Ada County assessor's



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Residential Characteristics for Parcel R5488510065

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Year Built:	1978
Year Remodel:	0
Number of Bedrooms:	3
Number of Bathrooms:	1.75
Number of FirePlaces:	1
Air Conditioning:	Y
Car Storage Sq Ft #1:	600
Car Storage Sq Ft #2:	0
General Purpose Building Sq Ft:	800
Porch Sq Ft:	0
Deck Sq Ft:	96
Deck Covered:	N
Patio Sq Ft:	96
Patio Covered:	N
Pool Sq Ft:	0
Total Sq Ft:	1440
Main Floor Sq Ft:	1440
Upper Floor Sq Ft:	0
Finished Lower Floor Sq Ft:	0
Unfinished Lower Floor Sq Ft:	0
Finished Basement Floor Sq Ft:	0
Unfinished Basement Floor Sq Ft:	0
Finished Attic Sq Ft:	0
Unfinished Attic Sq Ft:	0