

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33186

Exam Date: 08/04/2020

1. Current Owner:
ARROWROCK RANCH ASSN INC C/O NICHOLE ANDERSON
11695 W PRECEPT LN KUNA ID 83634-5198
2. Accompanied by: Nick Nydegger
Phone No: (208)867-7309
Address: 12160 Dynamite Ln, Kuna, ID 83634
Relationship to permit Holder: Representative of Assn.

3. **SOURCE:**
WASTE WATER
GROUND WATER

Method of Determination: Site visit, wells logs

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: No overlap present

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

Water Right No.	Source	Purpose of Use	Basis
63-12260	Groundwater	Irrigation	License
63-31745	Groundwater	Domestic, Fire protection	License
63-31881	Groundwater	Irrigation	Decreed

Comments: This permit overlaps two wells for the three rights listed above, but only for two of three pumps within the two wells. There is no overlap for wastewater source.

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L4 (NW¼ NW¼), Sec. 3, Twp 01N, Rge 01E, B.M. ADA County
GROUND WATER L4 (NW¼ NW¼), Sec. 3, Twp 01N, Rge 01E, B.M. ADA County
WASTE WATER L3 (NE¼ NW¼), Sec. 3, Twp 01N, Rge 01E, B.M. ADA County

Method of Determination: Wells logs, gps. Site visit, digital PLSS system

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	3					14.0			15.0									29.0

Total Acres: 29.0

Method of Determination: Site visit, digital PLSS system, aerial imagery

3.

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

☒ 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.

☒☒ Aerial Photo Attached (required for irrigation of 10+ acres).☒☒ 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
D0030888	Franklin	75	N/A	Berkeley	8T60-550
D0030889	Franklin	30	N/A	Berkeley	6T-200

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Measurements: No measurements were taken during this exam.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

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

Permit	0.60 cfs
B.U. Standard Allowance	0.58 cfs
B.U. Proof Fee	\$100 → 0.21 to 1.00 cfs
Pump Curves	1.45 + 0.60 = 2.05 cfs
Theoretical Rate	1.72 cfs

License Recommendation 0.58 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 29 \text{ acres} \times 4.5 \text{ af/acre} = 131 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.58 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 299 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 131 \text{ af}$$

2. Volume Calculations for Other Uses: None

G. NARRATIVE/REMARKS/COMMENTS

This permit authorizes 0.60 cfs of groundwater and waste water for irrigation of 30 acres of property owned by the Arrowrock Ranch Association Inc. located to the east of the Arrowrock subdivision in Ada County. The application for permit was originally filed on March 16, 2009, but was superseded by an amended application received on October 13, 2009. Proof of beneficial use was originally due on January 2, 2015. On November 24, 2014, the Department received a request for extension of time, which extended the proof due date to January 2, 2020. On January 6, 2020, the Department issued a permit lapse notice because no written response was received. On January 27, 2020 the permit holder filed proof and the permit was reinstated on March 6, 2020, advancing the priority date to April 10, 2009.

The waste water source for this permit is the Arrowrock Ranch Subdivision's sewage and grey-water, which is treated at a facility within the subdivision. Multiple waste water treatment units have low hp submersible pumps which upon treatment of the water is pumped into a gravity fed system that empties into the bottom of a collection pond at the NW corner of the place of use. The groundwater for this permit is diverted from two wells located in Lot 2, Block 1 of the Arrowrock Ranch Sub No 1, where it is pumped into the same collection pond. The northern well, ID# 380529, is 12" with a 75-hp pump set at 280 ft below ground surface, which also applies water for domestic and irrigation use within the subdivision. The southern well, ID# 380531, is 18" and contains a 30-hp used for irrigation and domestic and 125-hp used for fire protection at 280 ft bsl. Water rights 63-12260, 63-31745 and 63-31881 are diverted through the same wells, however no combined use limit is required since the capacities of the wells are sufficient to support all of the uses, and the irrigation uses do not overlap the place of use for this permit.

From the collection pond, which is typically kept at half capacity, a 15-hp pump diverts water into 8" buried lines which flow to set sprinklers in the eastern portion of the northern half of the pasture, and 8" pipe heads spread out east-west in the middle of the pasture. 2 wheel lines and a water gun can be attached to the pipe heads to irrigate different sections of the pasture depending on crop rotation. The wheel lines contained approximately 32 sprinkler heads and there were approximately 20 set sprinklers, both of which had varying types of sprinkler heads. The permitted place of use contained a portion of the collection pond, so 29 acres were identified as irrigated once the pond was removed. Since either the wells or the booster pump in the collection pond are capable of diverting more than the beneficial use standard, the standard allowance of 0.58 cfs for the 29 acres developed is recommended for licensing.

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>	<u>Annual Volume</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 ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

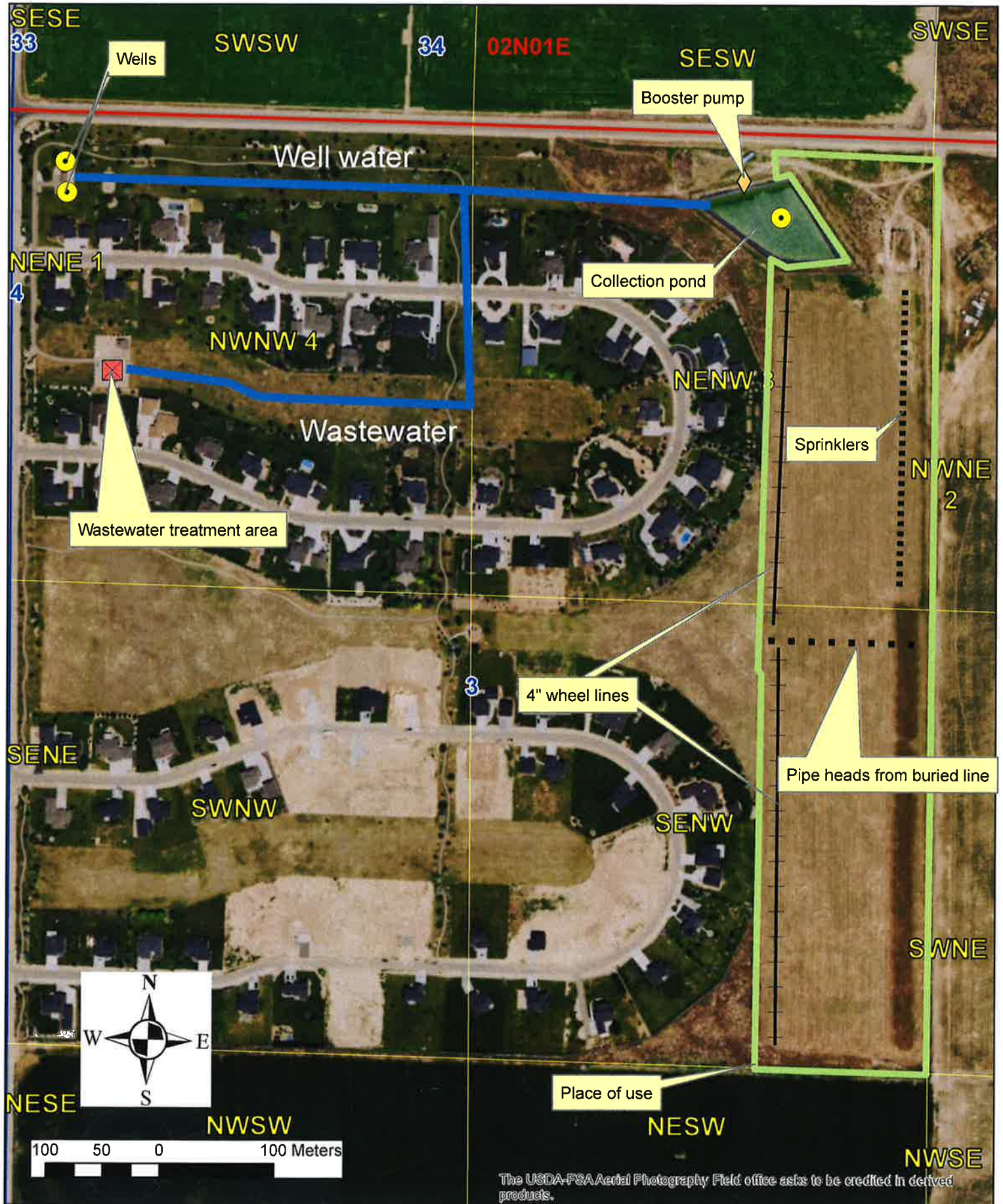
I. AUTHENTICATION

Tyler Smith - Water Resource Agent

Field Examiner's Name Tyler Smith Date 9/16/2020

Reviewer Patrick Kelly Date 9-17-2020

Delivery System Diagram for 63-33186



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-33186
 Reviewer: Tyler Smith
 Date of Review: 9/2/2020

P/D No.: Well D0030888	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	75	75	75
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	280	280	280
DISCHARGE PRESSURE	35	45	55
RATE OF FLOW (cfs)	1.28	1.20	1.13 1.21

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:

Field exam reports a 75 hp pump for irrigation use. Lift is recorded at 280 ft according to previous field exams. A range of discharge pressures were used base on expected system pressures (35-55 psi). Theoretical average flow rate is 1.21 cfs.

P/D No.: Well D0030889	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	30	30	30
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	280	280	280
DISCHARGE PRESSURE	35	45	55
RATE OF FLOW (cfs)	0.51	0.48	0.45 0.48

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:

Field exam reports a 30 hp pump for irrigation use. Lift is recorded at 280 ft according to previous field exams. A range of discharge pressures were used base on expected system pressures (35-55 psi). Theoretical average flow rate is 0.48 cfs.

Total Diversion from Two Wells: 1.69 cfs

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Well ID No. 380529
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. D 00030888
DRILLING PERMIT NO. 880739-809797
Water Right or Injection Well No. 63-31745

2. OWNER:
Name Arbor Ridge
Address PO Box 344
City Meridian State ID Zip 83680

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 1 North ☒ or South ☐
Rge. 1 East ☒ or West ☐
Sec. 3 1/4 N/W 1/4 N/W 1/4
Gov't Lot _____
Lat: _____ Long: _____
Address of Well Site SE corner of Cloverdale & Mora
Kuna intersection City _____
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name ArrowRock Sub

4. USE: Well #1
☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
bentonite chips	0	180	17,500#	poured
bentonite grout	180	335	3,000#	pumped

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
12"	+2	360	375	steel	XX	☐	XX	☐
8"	338	360	322	steel	☐	XX	XX	☐

Length of Headpipe 22 Length of Tailpipe 0
Packer ☒ Y ☐ N Type figure K 12" belled to 8"

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation Johnson stainless v wire

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
360	400	40		8"		☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
6-9 sand	335	400	8,500#	poured

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

185' ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
350	14.33	200.67	30 min
800	38.88	225.75	1 hr
1,000	52.79	239.1	6 1/2 hr

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
19	0	4	clay topsoil	X
	4	19	basalt	X
	19	50	broken basalt & clay	X
	50	65	basalt	X
	65	100	red & black broken basalt	X
	100	185	hard basalt	X
	185	205	broken basalt	X
	205	215	basalt	X
	215	235	cemented gravel	X
	235	250	brown clay	X
	250	280	gravel & sand	X
	280	315	coarse sand, small gravel	X
	315	337	gravel & sand	X
	337	400	coarse sand & gravel	X

RECEIVED

DEC 01 2005

WATER RESOURCES
WESTERN REGION

Completed Depth 400' (Measurable)

Date: Started 9/10/05 Completed 11/10/05

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 Stevens & Sons Firm No. 153

Principal Driller Ray Stevens Date 11/27/05

Driller or Operator II Ray Stevens Date _____

Operator I _____ Date _____

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

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 00030889
DRILLING PERMIT NO. 880740-809799
Water Right or Injection Well No. 63-31745

2. OWNER:
Name Arbor Ridge
Address PO Box 344
City Meridian **State** ID **Zip** 83680

3. LOCATION OF WELL by legal description:

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

Twp. 1 North ☒ or South ☐
Rge. 1 East ☒ or West ☐
Sec. 3 1/4 N/W 1/4 N/W 1/4
Gov't Lot County Ada

Lat: : : **Long:** : :
Address of Well Site SE corner of Cloverdale & Mora-
Kuna Rds City Kuna

Lt. Blk. Sub. Name Arrowrock Ranch Sub
well #2

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other fire protection

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other reverse rotary

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
bentonite chips	0	180	24000#	poured
bentonite grout	180	320	4000#	pumped

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s)
Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
18"	+4	350	375	steel	☒	☐	☒	☐
10"	329	350	365	steel	☐	☒	☒	☐

Length of Headpipe 21' **Length of Tailpipe**
Packer ☒ Y ☐ N Type slip pkr 5'6" long, 12" pipe

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method

Screen Type & Method of Installation Johnson v wire

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
350	431	40		10	stnls	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
#6-9 sand			4500#	poured

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

ft. below ground **Artesian pressure** lb.
Depth flow encountered ft. Describe access port or control devices:

12. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. **Bottom hole temp.**

Water Quality test or comments:

Depth first Water Encounter

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
24	0	3	clay topsoil		X
	3	17	basalt, solid		X
	17	46	broken basalt & clay		X
	46	65	basalt, solid		X
	65	90	red & black broken basalt		X
	90	120	hard black basalt		X
	120	200	basalt		X
	200	205	brown clay		X
	205	235	cemented gravel	X	
	235	250	brown clay		X
	250	280	gravel & sand	X	
	280	315	coarse sand, small gravel	X	
	315	337	gravel & sand	X	
	337	408	coarse sand & gravel	X	
	408	431	gravel & sand	X	

RECEIVED

JUN 14 2005

WATER RESOURCES
WESTERN REGION

17. 320-350 cement pumped 1000#
Completed Depth 431 (Measurable)
Date: Started 12/21/04 **Completed** 5/5/05

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 Stevens & Sons **Firm No.** 153

Principal Driller **Date** 5/10/05

Driller or Operator II **Date**

Operator I **Date**

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

FORWARD WHITE COPY TO WATER RESOURCES

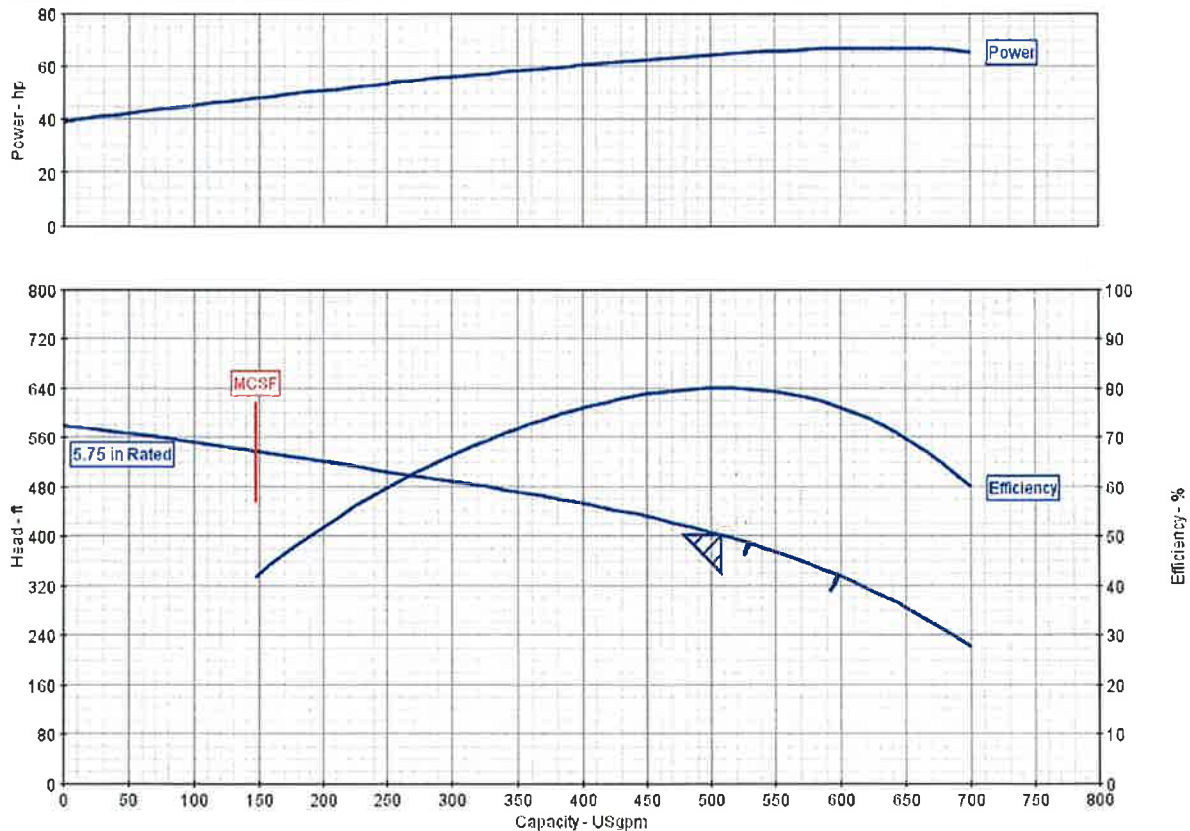


75 HP

Berkeley Electronic Catalog

Pump Performance Datasheet

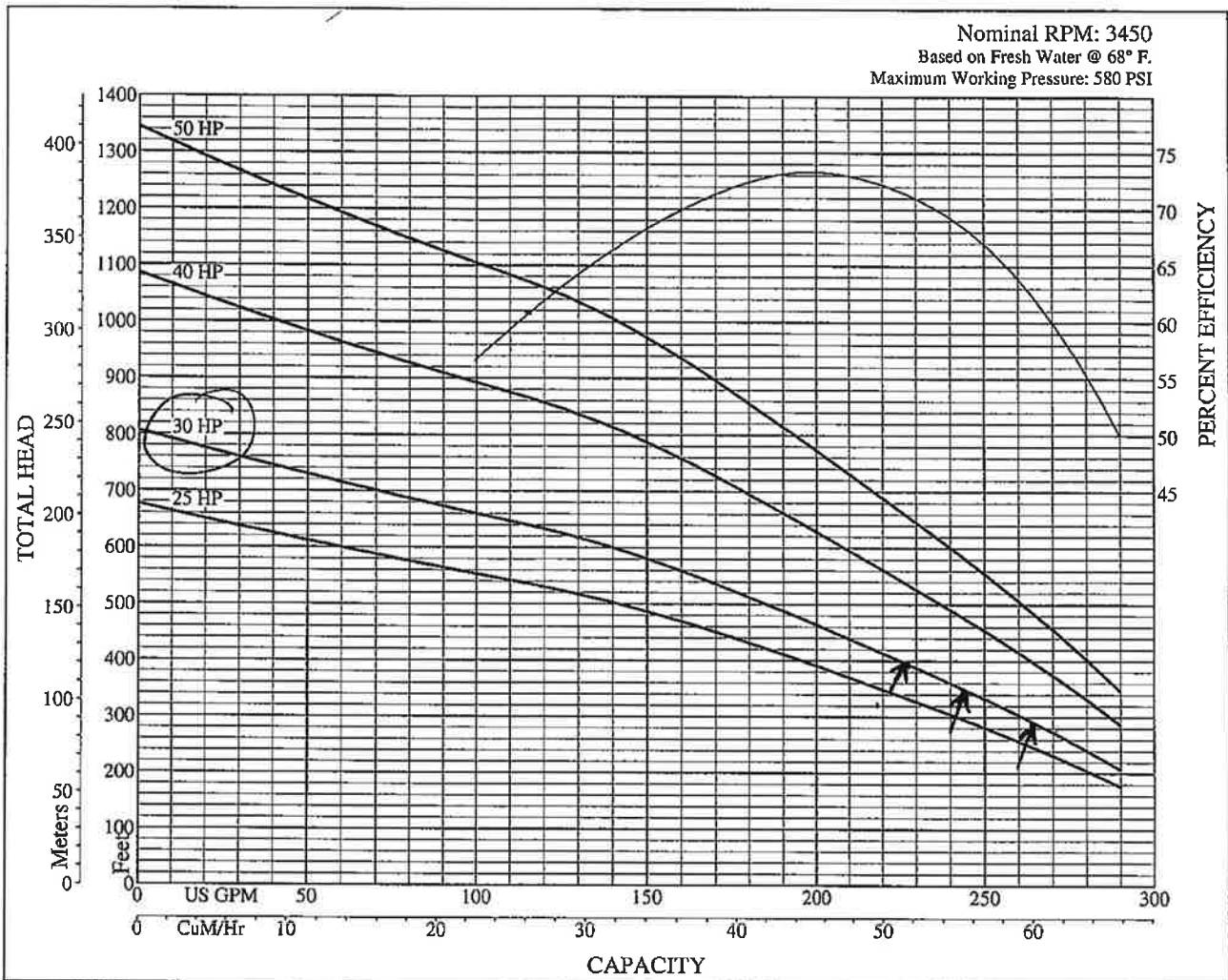
Customer	:	Quote number	:
Customer reference	:	Pump size	: 8T60-550
Item number	:	Stages	: 5
Service	:	Based on curve number	: 8T60-550(5@5.75x5.0897)
Quantity of pumps	: 1	Date last saved	: 14 Feb 2006
Operating Conditions		Liquid	
Flow, rated	: 508.5 USgpm	Liquid type	: --Water
Head, rated (requested)	: 400.3 ft	Additional liquid description	:
Head, rated (actual)	: 400.3 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Temperature, max	: 68.00 deg F
NPSH available, rated	: Ample	Fluid density, rated / max	: 0.998 / 0.998 SG
Frequency	: 60 Hz	Viscosity, rated	: 1.00 cP
Performance		Material	
Pump speed, rated	: 3,450 rpm	Material requested	: Not specified
Impeller diameter, rated	: 5.75 in	Material selected	: Not specified
Impeller diameter, maximum	: 5.75 in	Pressure Data	
Impeller diameter, minimum	: 5.75 in	Maximum working pressure	: 250.4 psi.g
Efficiency	: 79.84 %	Working pressure limit	: 490.0 psi.g
NPSH required / margin required	: N/A / 0.00	Suction pressure limit	: N/A
Specific speed / Suction specific speed	: N/A / 0 US units	Hydrostatic test pressure	: N/A
MCSF	: 147.0 USgpm	Driver & Power Data	
Head, maximum, rated diameter	: 578.6 ft	Driver sizing specification	: Rated power
Head rise to shutoff	: N/A %	Margin over specification	: 0.00 %
Flow, best eff. point (BEP)	: 508.5 USgpm	Service factor	: 1.00 (used)
Flow ratio (rated / BEP)	: 100.00 %	Power, hydraulic	: 51.32 hp
Diameter ratio (rated / max)	: 100.00 %	Power, rated	: 64.27 hp
Head ratio (rated dia / max dia)	: 100.00 %	Power, maximum, rated diameter	: 66.72 hp
Viscous coefficients (CQ / CH / CE)	: 1.00 / 1.00 / 1.00	Minimum recommended motor rating	: 60.00 hp / 44.74 kW (Fixed)
Selection status	: Acceptable		





SUBMERSIBLE TURBINE

6T-200



OUTLINE DIMENSIONS / WEIGHTS

HP	stages	Motor size	P length	M* length	MD* dia.	Mtr. wt.	Pump wt.
25	10	6"	63.98	33.13	5.38	148	233
30	12	6"	73.98	35.69	5.38	162	272
40	16	6"	93.98	40.81	5.38	195	350
50	20	6"	113.98	57.83	5.38	310	429

Note: dimensions = inches; weight = U.S. lbs.

M* Maximum length (Franklin Electric Motor)

MD* Motor diameter (Franklin Electric Motor)

SPECIFICATIONS

Minimum Well I.D.	6.0 Inches
Minimum Submergence @ BEP (above inlet)	10.0 Feet
Capacity Range	95 - 290 GPM
Discharge	3" F NPT
See manufacturer's data for motor cooling requirements	

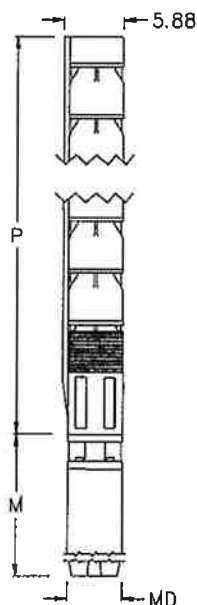
SUPERSEDES

All Previous

Date 04/15/96

Section **ST**

Page 13.03

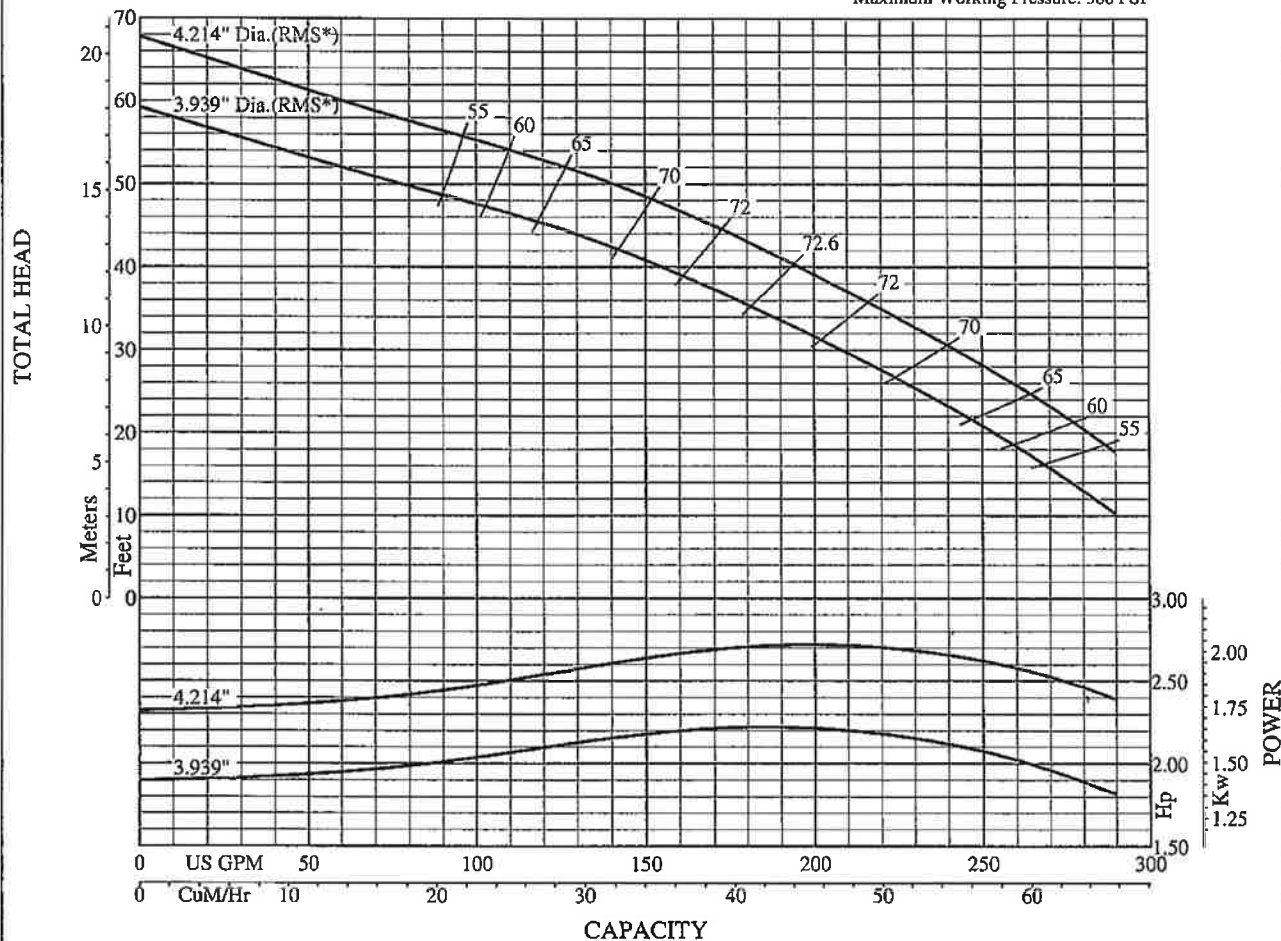




SUBMERSIBLE TURBINE SINGLE STAGE PERFORMANCE

6T-200

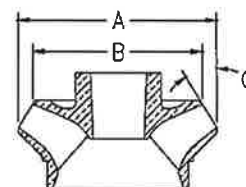
Nominal RPM: 3450
Based on Fresh Water @ 68° F.
Maximum Working Pressure: 580 PSI



IMPELLER DIMENSIONS

RMS* Diameter	A Diameter	B Diameter	C Angle
4.214	4.523	3.880	32°
3.939	4.268	3.580	32°

* Root-Mean-Square



MATERIALS OF CONSTRUCTION

Part Name	Common Material Name	Material Spec Number
Discharge Adapter	Cast Iron	ASTM A48 Class 30
Top Bowl	Cast Iron	ASTM A48 Class 30
Intermediate Bowl	Cast Iron	ASTM A48 Class 30
Bearings, Top and Suction Case	Bronze	ASTM B144-3B (SAE 660)
Impeller	Silicon Bronze	ASTM B584 UNS C87500
Pump Shaft	Stainless Steel	AISI 416
Impeller Collets	Steel	1226
Suction Bracket	Cast Iron	ASTM A48 Class 30
Bowl Bearing	Rubber	Neoprene
Sand Cap	Bronze	ASTM B144-3B (SAE 660)
Strainer	Stainless Steel	AISI 302 UNS S30200
Cable Guard	Stainless Steel	AISI 302 UNS S30200
Shaft Coupling	Stainless Steel	AISI 416 UNS S41600

SUPERSEDES

All Previous

Date 04/15/96

Section **ST**

Page 13.04

Note: Efficiency based on average staging

Beneficial Use Field Exam

BasinSequence	Owner	Source	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
63-11343	ANDERSON ENTERPRISES; HAYE	GROUND WATER											X					
63-12260	ARBOR RIDGE LLC; MAYFIELD SP	GROUND WATER						X										
63-2986	DUEROCK, ALFRED; KARL WOOD	GROUND WATER	X			X										X		
63-31745	ARBOR RIDGE LLC; MAYFIELD SP	GROUND WATER						X										
63-31881	ARBOR RIDGE LLC; HAM, FRANK	GROUND WATER						X										
63-31950	KARL WOODALL & SONS INC; MI	GROUND WATER	X													X		
63-31951	THORNTON, LAVAR; THORNTON	GROUND WATER	X			X										X		
63-31952	CHURCH OF JESUS CHRIST OF TH	GROUND WATER	X													X		
63-31953	CHURCH OF JESUS CHRIST OF TH	GROUND WATER	X			X										X		
63-33074	SPF WATER ENGINEERING LLC; T	GROUND WATER	X			X										X		
63-33186	ARROWROCK RANCH ASSN INC; G	GROUND WATER					X	X										
63-33186	ARROWROCK RANCH ASSN INC; W	ASTE WATER					X	X										
63-33817	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-33819	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-33821	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-33823	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-33825	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-33827	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-33829	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-33831	ANDERSON BROTHERS; ANDERS	INDIAN CREEK										X						
63-34286	THE MILLER FAMILY LIVING TRU	GROUND WATER	X			X										X		
63-34304	ANDERSON ENTERPRISES; CS PR	GROUND WATER											X					
63-34305	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34306	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34307	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34308	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34309	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34310	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34311	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34312	ANDERSON BROTHERS; ANDERS	INDIAN CREEK										X						
63-34915	ANDERSON ENTERPRISES; HA W	GROUND WATER											X					
63-34916	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34917	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34918	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34919	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34920	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34921	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34922	ANDERSON BROTHERS; ANDERS	GROUND WATER											X					
63-34923	ANDERSON BROTHERS; ANDERS	INDIAN CREEK										X						

= this right

= overlap

BasinSequence	Owner	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
63-11343	ANDERSON ENTERPRISE	IRRIGATION											10						10
63-12260	ARBOR RIDGE LLC; MAYFIELD IRRIGATION						5.3	13	13	6									37.3
63-2986	DUEROCK, ALFRED; KARL IRRIGATION		40	40	40	40					36	20				40	40	14	310
63-31881	ARBOR RIDGE LLC; HAM IRRIGATION						0.3	1	0.6	0.1									2
63-31951	THORNTON, LAVAR; THORNTON IRRIGATION		40	40	40	40					36	20				40	40	14	310
63-31953	CHURCH OF JESUS CHRIST IRRIGATION		40	40	40	40					36	20				40	40	14	310
63-33074	SPF WATER ENGINEERING IRRIGATION		38	35	40	33					35	21				36	40	4	295
63-33186	ARROWROCK RANCH AS IRRIGATION						14			15									29
63-33817	ANDERSON BROTHERS; IRRIGATION												10						10
63-33819	ANDERSON BROTHERS; IRRIGATION												10						10
63-33821	ANDERSON BROTHERS; IRRIGATION												10						10
63-33823	ANDERSON BROTHERS; IRRIGATION												10						10
63-33825	ANDERSON BROTHERS; IRRIGATION												10						10
63-33827	ANDERSON BROTHERS; IRRIGATION												10						10
63-33829	ANDERSON BROTHERS; IRRIGATION												10						10
63-33831	ANDERSON BROTHERS; IRRIGATION												10						10
63-34286	THE MILLER FAMILY LIVESTOCK IRRIGATION																		3.8
63-34303	ANDERSON ENTERPRISE IRRIGATION																3.8		3.8
63-34304	ANDERSON ENTERPRISE IRRIGATION																30		115
63-34305	ANDERSON BROTHERS; IRRIGATION																30		115
63-34306	ANDERSON BROTHERS; IRRIGATION																30		115
63-34307	ANDERSON BROTHERS; IRRIGATION																30		115
63-34308	ANDERSON BROTHERS; IRRIGATION																30		115
63-34309	ANDERSON BROTHERS; IRRIGATION																30		115
63-34310	ANDERSON BROTHERS; IRRIGATION																30		115
63-34311	ANDERSON BROTHERS; IRRIGATION																30		115
63-34312	ANDERSON BROTHERS; IRRIGATION																30		115
63-9937	ANDERSON ENTERPRISE IRRIGATION												10						10

= this right

= overlap



Fig. 1 – Well cap for
12" well D00030888,
75 hp pump



Fig. 2 – 18" well
D00030889 w/ 30 hp
& 125 hp pumps are
located within pump
house. Access was
not possible during
the field exam.



Fig. 3 – Site where wastewater/sewage from subdivision is treated. Each structure has a sub. pump to gravity system to collection pond.



Fig. 4 – Collection pond looking south. Pond is usually filled to $\frac{1}{2}$ capacity.



Fig. 5 – Booster pump pressurizes water from pond to sprinklers, wheel lines, etc. Collection pond in background.



Fig. 6 – Motor info for booster pump:

Model: 5X6228XH5A

HP: 15

Volts: 230/460

Serial #: GJJ718330



Fig. 7 – Control box for booster pump.



Fig. 8 – Pipe head from buried lines from booster pump w/ valve to turn on or off. Wheel lines and water gun attached with hose when in use.



Fig. 9 – Water gun can be moved to increase irrigation coverage.



Fig. 10 – Wheel line attached to pipe head with hose. Alfalfa currently being grown within the place of use.



Fig. 11 – Wheel lines contain 32 sprinklers and are rotated between the north and south half of pasture. View looking south.



Fig. 12 – Wheel lines contain various types of sprinkler heads.



Fig. 13 - Wheel lines contain various types of sprinkler heads.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 W Airport Way • Boise ID 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348

Website: idwr.idaho.gov • Email: westerninfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

July 9, 2020

COPY

ARROWROCK RANCH ASSN INC
C/O NICHOLE ANDERSON
11695 W PRECEPT LN
KUNA, ID 83634

RE: Scheduling Field Exam for Water Right Permit No. 63-33186

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.60 CFS** of **GROUNDWATER/WASTE WATER** for **IRRIGATION** use. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty (30) days at (208) 334-2190 or tyler.smith@idwr.idaho.gov to either schedule an examination or submit a relinquishment or assignment form. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Sincerely,

Tyler Smith
Water Resource Agent

Enclosures: Relinquishment of Permit form
Assignment of Permit form
Proof Report and Map