

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 61-7759

Exam Date: 09/27/2012

1. Current Owner: OAKLEAF HOME OWNERS ASSN
840 NW BLUEGRASS CIRCLE
MOUNTAIN HOME ID 83647
(208) 484-3719

2. Accompanied by: Don Westbrook

Phone No: 208-484-3719Address: Same as aboveRelationship to Permit Holder: Homeowner / Former Water Manager3. **SOURCE****TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Mountain Home Irrigation District water rights
2. Other water rights with the same point of diversion: None

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

GROUND WATER NE1/4SE1/4 Sec. 15, Twp 03S, Rge 06E, B.M. ELMORE County

Method of Determination: GPS and Visual Inspection

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
03S	06E	15													X				

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
03S	06E	15													X				

Method of Determination: GIS and Visual Inspection

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/pipe i.d. as applicable.

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

YES Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Main Well D0015961	Grundofos	30 Hp	M11-6	Submersible	Model # -3005300-8
Canal Pump	Marathon	7.5 Hp	Unknown	Berkley	Serial # - B58146

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements: Pump Curve and Theoretical Calculations used to determine flow rate.

E. **FLOW CALCULATIONS** X Additional Computation Sheets Attached

Measured Method:

Theoretical Equals 0.69 cfs.

Permit allows 0.23 cfs Domestic, 0.24 cfs Irrigation, 0.56 cfs Fire Protection, for a total of 1.03 cfs.

Administration decided to combine Domestic and Irrigation with a total diversion rate of 0.47 cfs. Therefore, I am recommending 0.47 cfs for Domestic, 0.56 cfs for Fire Protection, when combined both uses are limited to 0.69 cfs. The irrigation component is no longer a component of the water right.

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

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

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

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

2. Volume Calculations for Other Uses:

No volume required for Fire Protection.

Domestic Use is limited to 13, 000 gallons per day, and the irrigation portion of the Domestic Use is limited to supplemental use and the total of 48 acre-feet (12 acres X 4 acre-feet / acre = 48 acre-feet), when combined with all other water rights.

G. NARRATIVE/REMARKS/COMMENTS

Subdivision well located in center of subdivision. Ground water distribution system lies in under subdivision road. Each home is plumbed off this line for domestic. Five fire hydrants are distributed throughout the subdivision and plumbed off this line. Each home has a line from the house that connects their lawn irrigation system.

Water from the canal enters the subdivision in the SE corner of the subdivision. The surface water is distributed through a 3" line around the perimeter of the subdivision, along with two separate branches that deliver water to the middle lots in the subdivision. The canal water is isolated from the in-house domestic through the use of backflow prevention devices.

After conversations with Craig Saxton, it was decided that the water right was better described by combining the Domestic and Irrigation uses, since the Irrigation use was permitted with a ½ acre per lot limitation. The ½ acre per lot limitation is the same limitation described in the standard domestic use requirement. With Mr. Saxton assistance, we adjusted the supplemental conditions to accommodate the Irrigation use under the Domestic component.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.470 CFS	
FIRE PROTECTION	01/01 to 12/31	0.560 CFS	
	<u>Totals:</u>	0.690 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 ___Other

I. AUTHENTICATION Steven J. Baker - Hydrologist

Field Examiner's Name  Date 10/4/12

Reviewer _____ Date _____

NWNE

NENE

NWNW

SENE

SYSTEM DIAGRAM FOR WR 61-7759

Subdivision Well (Green Dot) located in center of subdivision. Ground water distribution system (outlined in red) lies in under subdivision road. Each home is plumbed off this line for domestic. Five fire hydrants are distributed throughout the subdivision and plumbed off this line. Each home has a line from the house that connects their lawn irrigation system.

Water from the canal enters the subdivision in the SE corner of the subdivision. The surface water is distributed through a 3" line around the perimeter of the subdivision (outlined in blue), along with two separate branches that deliver water to the middle lots in the subdivision. The canal water is isolated from the in-house domestic through the use of backflow prevention devices.

SWNE

SWNW

NWSE

NWSW

NESE

SWSE

SESE

SWSW

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**CHANGE IN ADDRESS**This form can be used to notify the Department of a change in
address of the owners of record for the listed water rights.
(Please print or type)

RECEIVED

OCT 01 2012

WATER RESOURCES
WESTERN REGION

- [] Water Right Number(s): 61-07759
- [] Name(s): Oakleaf Subdivision or Homeowners Association
- [] Old Mailing Address: 835 NW Bluegrass Circle
Mountain Home, ID 83647
- [] New Mailing Address: Oakleaf Homeowners Association
840 NW Bluegrass Circle
Mountain Home, ID 83647
- Telephone Number: (208) 484 - 3719
- Email: dorrrw39@gmail.com
- [] Signature(s) of Owner(s) Ronald Westbrock for
Oakleaf Homeowners Association
(Include your title if on behalf of company or organization)
- Date: 27 Sep 2012

Send a signed original to your closest regional office:

IDWR Northern Region
7600 Mineral Dr., Suite 100
Coeur d'Alene, ID 83815
(208) 762-2800IDWR Eastern Region
900 N. Skyline Dr., Suite A
Idaho Falls, ID 83402-1718
(208) 525-7161IDWR Western Region
2735 Airport Way
Boise, ID 83705-5082
(208) 334-2190
*Attn: Steve Baker*IDWR Southern Region
1341 Fillmore St., Suite 200
Twin Falls, ID 83301-3380
(208) 736-3033

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 61-07759
 Examiner: Steve Baker
 Date of Field Exam: 9/27/2012

	Option 1	OPTION 2	OPTION 3
P/D No.:			
PUMP HORSEPOWER	30	30	30
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	175	175	175
DISCHARGE PRESSURE	40	50	60
FRICTION	0	0	0
RATE OF FLOW (cfs)	0.69	0.64	0.59
(gpm)	310.2	285.5	264.5

The above calculates the formula =

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

Assumptions: %70 efficiency.

Examiners Notes:

Test Pump

Date: March 6 2001

Contractor: Jim CARRIK

Job Name: Oakleaf Subdivision Site Address: Mountain Home

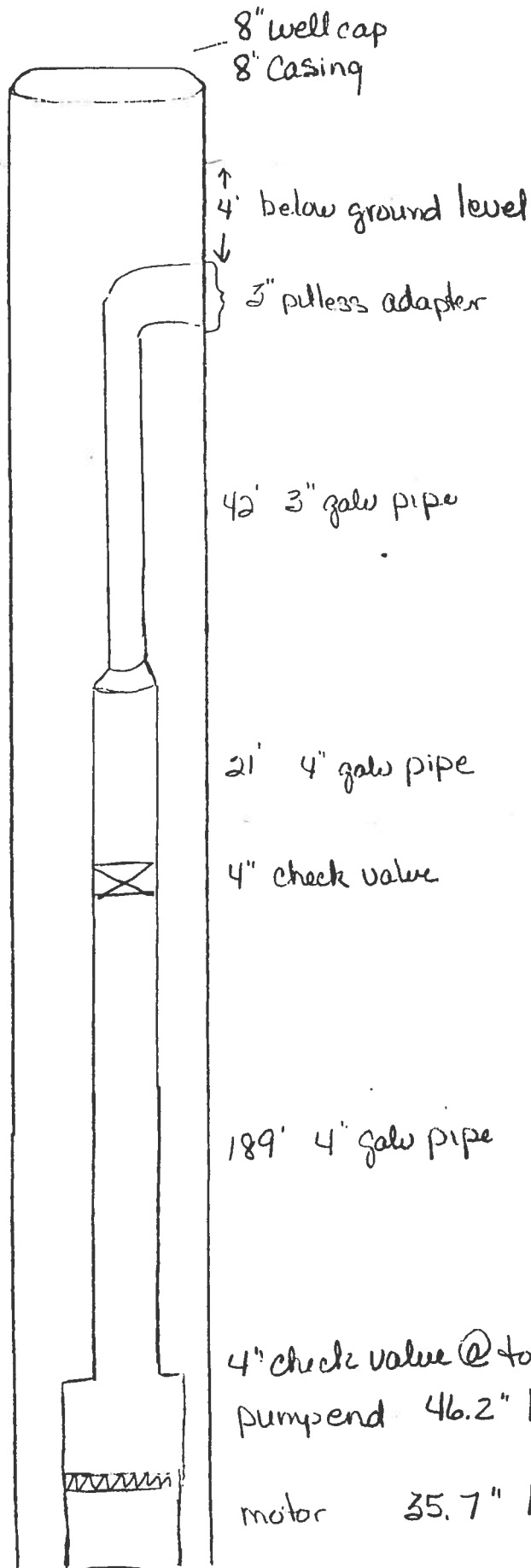
Adamson's employee: Jim

30hp. 300 GPM FOS
Pump SKT 252'

Time	AM/PM	Static Level	G.P.M.	Meter Reading	Notes:
2:50		150' STATIC			STARTED Pump TSS
2:50	PM	156'	100		
2:55	PM	150'	100		up TO 125 GPM CLEAR WATER
3:00	PM	150'	125		up TO 150 GPM
3:05	PM	160	150		STATIC STAYING SAME
3:10	PM	160	150		up TO 175 GPM
3:15	PM	158	175		STATIC NOT MOVING CLEAR WATER
3:25		177	200		up TO 200 GPM
3:30	PM	185	250		
3:45	PM	185	250		NO CHANGE IN STATIC CLEAR W
4:00	PM	192	300		
4:15	PM	192	300		
4:45	PM	192	300		RAISED TO 350 AT 4:50
5:00	PM	197	350		Pump WITH OPEN
5:30	PM	198	350		" " "
6:30	PM	198	350		" " "
7:00	PM	199	350		" " "
	AM	STOPPED			
6:45	AM	STATIC 156' 6"			
6:50	AM	STARTED	Pump AT 300 GPM		
7:05		166	300		LITTLE COLOR THEN CLEAR
7:20		168	300		
7:30		168	300		TESTED FOR CHLORINE/NO CHLORINE
8:00	AM	175	300		PH 7.6
		TOOK WATER SAMPLES.			

Oakleaf Subdivision

Installed 3.6.01
by Adamson Pump &
Drilling



8" well cap
8" casing

↑
4' below ground level
↓

3" pitless adapter

42' 3" galv pipe

21' 4" galv pipe

4" check valve

189' 4" galv pipe

4" check valve @ top of pump
pump end 46.2" long

motor 35.7" long

up Intake
und 260'

PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/27/2012

FILE NUMBER 61-07759

Picture of canal pump system



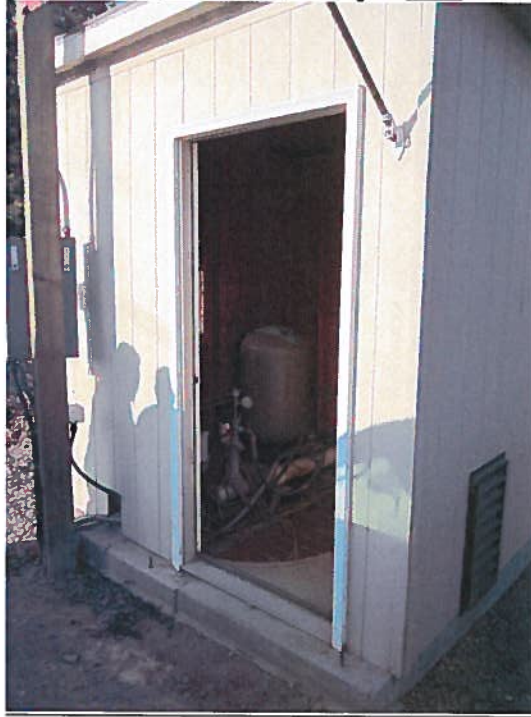
Picture of canal pump system



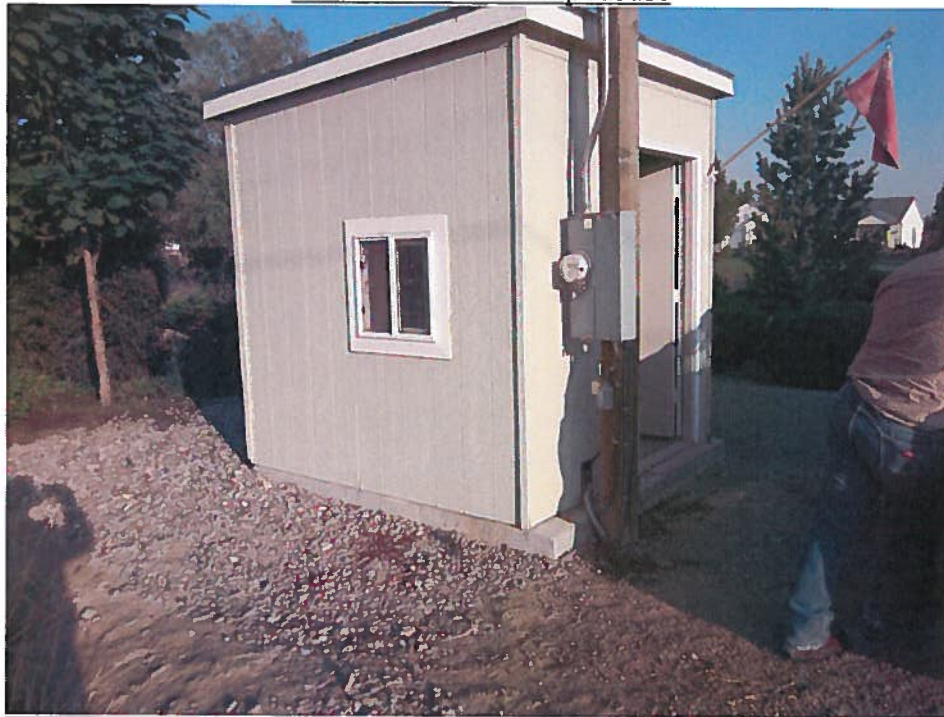
PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/27/2012

FILE NUMBER 61-07759

Picture of Canal Pump House



Picture of Canal Pump House



PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/27/2012

FILE NUMBER 61-07759

Picture of Canal Diversion Works



Picture of Subdivision Well



PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/27/2012

FILE NUMBER 61-07759

Picture of Subdivision Well and Well House



Picture inside Well House



PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/27/2012

FILE NUMBER 61-07759

Picture inside Well House of Flow Gauge



Picture inside Well House of Pressure Tanks



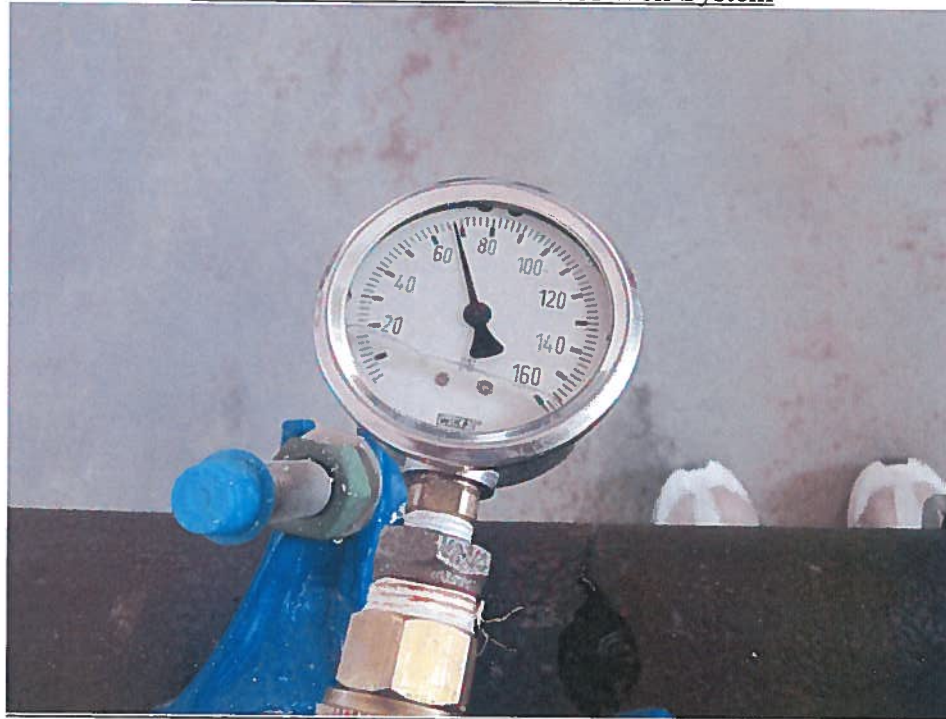
PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/27/2012

FILE NUMBER 61-07759

Picture inside Well House



Picture of Measured Pressure of Well System



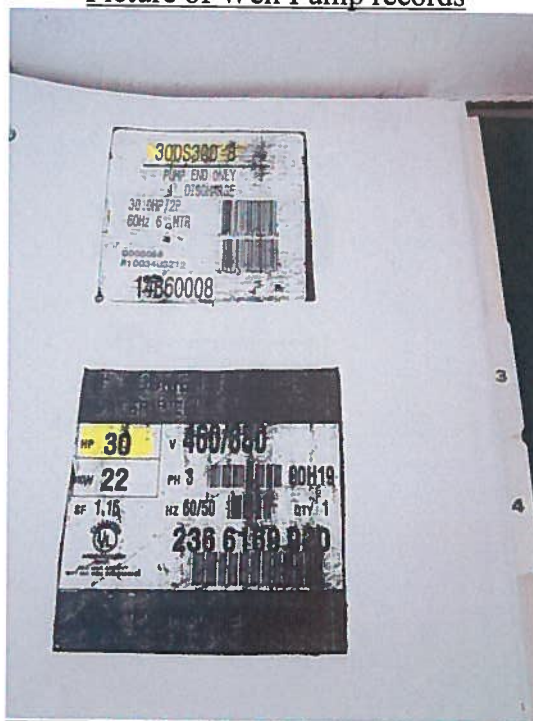
PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/27/2012

FILE NUMBER 61-07759

Picture of Well House

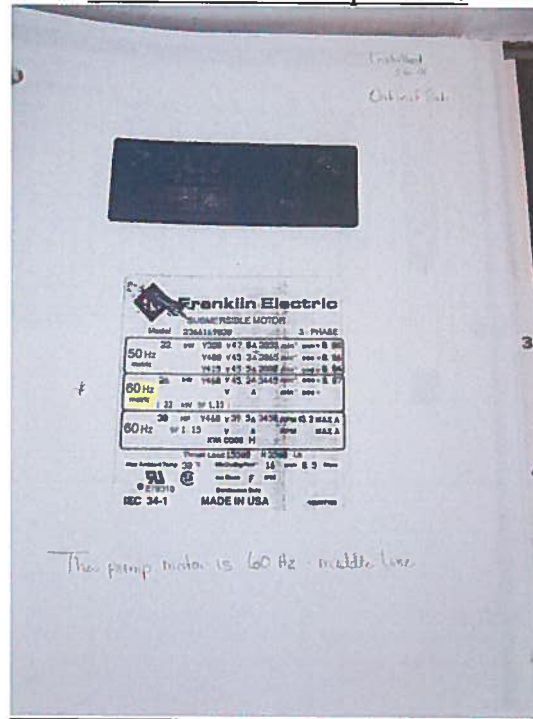


Picture of Well Pump records



FILE NUMBER 61-07759

Picture of Well Pump records



Picture of Well Pump records

300S

300 GPM

Technical Data

DIMENSIONS AND WEIGHTS

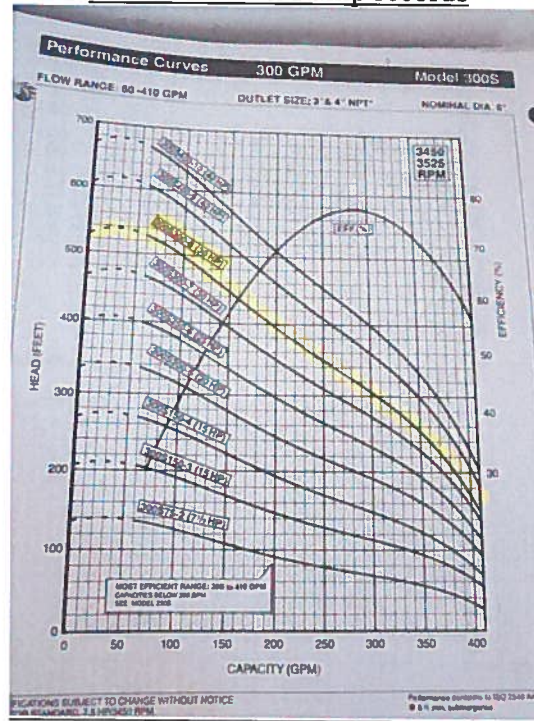
MODEL NO.	PSI	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES					APPROX. SHIP WT.
					A	B	C	D	E	
300S75-2"	A	7 1/2	4"	3" NPT	48 1/2	17 1/2	10 1/2	5 1/2	5 7/8	157
300S150-3"	A	15	6"	3" NPT	51 1/2	20 1/2	21 1/2	5 1/2	5 7/8	170
300S200-4"	A	20	6"	3" NPT	54 1/2	23 1/2	24 1/2	5 1/2	5 7/8	177
300S250-5"	A	25	6"	3" NPT	57 1/2	25 1/2	25 1/2	5 1/2	5 7/8	187
300S300-6"	A	30	8"	3" NPT	70 1/2	33 1/2	27 1/2	5 1/2	5 7/8	214
300S300-6"	A	30	8"	4" NPT	77 1/2	35 1/2	41 1/2	5 1/2	5 7/8	220
300S400-8"	A	40	6"	4" NPT	81 1/2	36 1/2	46 1/2	6 1/2	6 7/8	241
300S400-8"	A	40	6"	4" NPT	91 1/2	41 1/2	52 1/2	6 1/2	6 7/8	261
300S400-10"	A	43	8"	4" NPT	95 1/2	45 1/2	53 1/2	6 1/2	6 7/8	281
300S500-11"	A	50	8"	4" NPT	97 1/2	51 1/2	59 1/2	6 1/2	6 7/8	293
300S500-12"	A	55	8"	4" NPT	116 1/2	57 1/2	63 1/2	6 1/2	6 7/8	304
300S500-13"	A	50	8"	4" NPT	124 1/2	61 1/2	68 1/2	6 1/2	6 7/8	430
300S600-14"	A	60	6"	4" NPT	137 1/2	63 1/2	74 1/2	7 1/2	7 1/2	447
300S600-14"	A	60	6"	4" NPT	143 1/2	63 1/2	78 1/2	7 1/2	7 1/2	454
300S700-16"	A	70	8"	4" NPT	130 1/2	67 1/2	80 1/2	7 1/2	7 1/2	540
300S700-17"	A	75	8"	4" NPT	134 1/2	67 1/2	84 1/2	7 1/2	7 1/2	544
300S750-18"	A	75	8"	4" NPT	151 1/2	67 1/2	91 1/2	7 1/2	7 1/2	620

NOTE: Models 7-13 Gps. are suitable for use = 6" heads. 14-15 Gps. are suitable for use in 8" heads.
Weights include pump and with motor in lbs.
Allow for motor shipping weights.

PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/27/2012

FILE NUMBER 61-07759

Picture of Well Pump records



Picture of Pressure Gauge in Well House



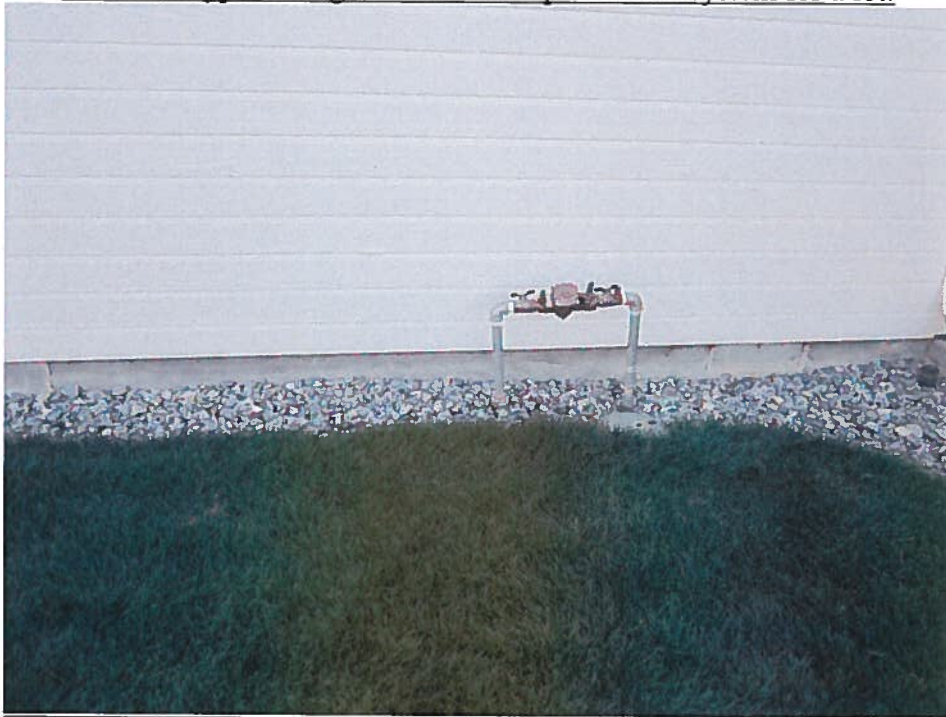
PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/27/2012

FILE NUMBER 61-07759

Picture of typical main shut-off and irrigation valve box for a lot



Picture of typical irrigation backflow prevention system for a lot.



PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/27/2012

FILE NUMBER 61-07759

Picture of typical canal filter system for a lot.

