

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-09323
Exam Date: 8/2/2016

1. Current Owner:
MARK R YOUNG 750 E BRIDLE WAY GILBERT AZ 85296 (602)418-0067
2. Accompanied by: Nobody present, applicant gave permission to perform exam with ^{POD}his presence.

3. **SOURCE:**
COCOLALLA CREEK

TRIBUTARY:
PEND OREILLE RIVER

B. OVERLAP REVIEW

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

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

COCOLALLA CREEK L1 (NE¼NE¼) Sec. 6, Twp 55N, Rge 02W, B.M. BONNER County

Method of Determination: Maps and GPS. POD location at 48° 08.833, 116° 36.669

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	
55N	02W	5						X L 4											
55N	02W	6	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	
55N	02W	5						0.8 L 4											.8
55N	02W	6	3.6 L 1																3.6

Total Acres: 4.4

Method of Determination: Google Earth and Arc map.

3.

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

X

Indicate weir size/pipe as applicable.

X

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

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
	RED LION	2	00915J2		1-1/2"

*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:

E. FLOW CALCULATIONSX Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM MEASUREMENT
 DURING EXAM. APPLICANT WAS NOT PRESENT SO I DID NOT WANT TO ATTEMPT ONE IN CASE SOMETHING BROKE. RED LION PUMP CURVE FOR APPLICANTS PUMP IS ATTACHED AND HIGHLIGHTED.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.4 \text{ AC} \times 3.0 \text{ AF} = 13.2 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.13 \text{ CFS} \times 214 \times 1.9835 = 55.2 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 13.2 \text{ AF}$$

$$2. \text{ Volume Calculations for Other Uses: STOCKWATER FOR 2 HORSES} = 2 \times 12 \text{ GPD} \times 365 \text{ DAYS} = 8,760 \text{ GPY}$$

$$8,760 \text{ GPY} = 0.03 \text{ AF} \text{ IDWR STANDARDS REQUIRE THIS TO BE ROUNDED UP TO } 0.1 \text{ AF.}$$

G. NARRATIVE/REMARKS/COMMENTS

Field examiner was unable to get a time that worked for both examiner and applicant for field exam. Applicant, Mr. Young said everything was running and easy to see so he gave permission for an exam without his presence. During exam I found an unknown red lion pump running at 30 psi. A later call to applicant verified it was a 2hp pump. A pump curve was found on their website that showed the diversion rate at 30 psi was around 60 gpm. Irrigation sprinklers were running at time of exam. Applicant had large 10 foot high pvc poles with sprinkler heads on top. There was also a hose connection a few feet from bottom of pole to hook an additional hose and sprinkler. Applicant had buried pvc pipe running around property for irrigation. There was also a few frost free hydrants located around the property. The two horses were not present during exam, but sign of animals was present. Because pump is capable of running at a higher diversion rate, an additional 0.02 cfs will be added to overall diversion rate. Overall irrigation was measured out to be 4.4 acres which is equal to 0.13 cfs or 60 gpm which was observed. License will be issued for 0.13 cfs for irrigation and 0.02 cfs for stockwater with an overall diversion rate of 0.15 cfs.

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	04/01 to 10/31	0.13 CFS	
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF
<u>Totals:</u>		0.150 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

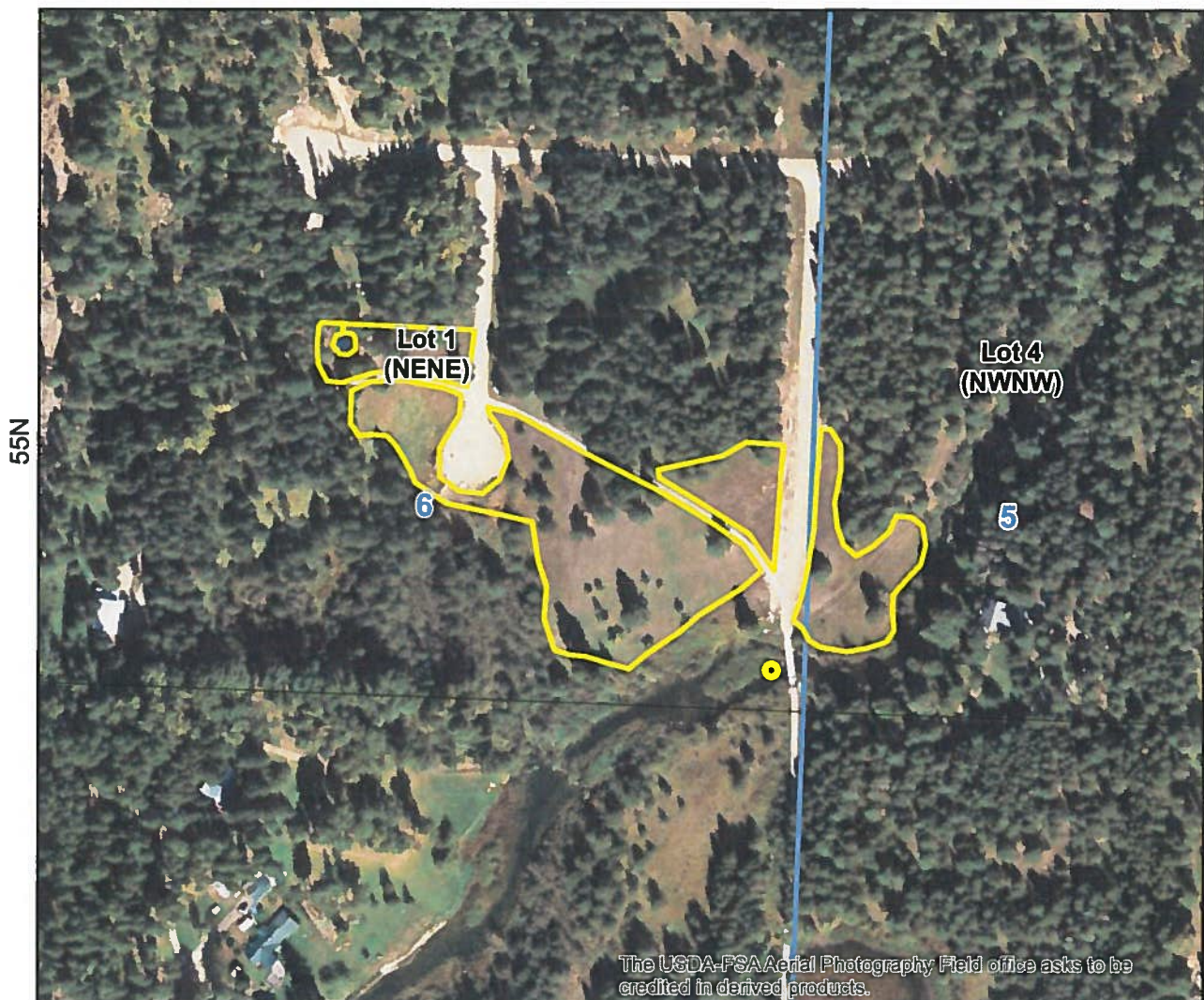
Field Examiner's Name Adam Fenzl Date 3-31-2017

Reviewer Date

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9323

IRRIGATION and STOCKWATER

02W



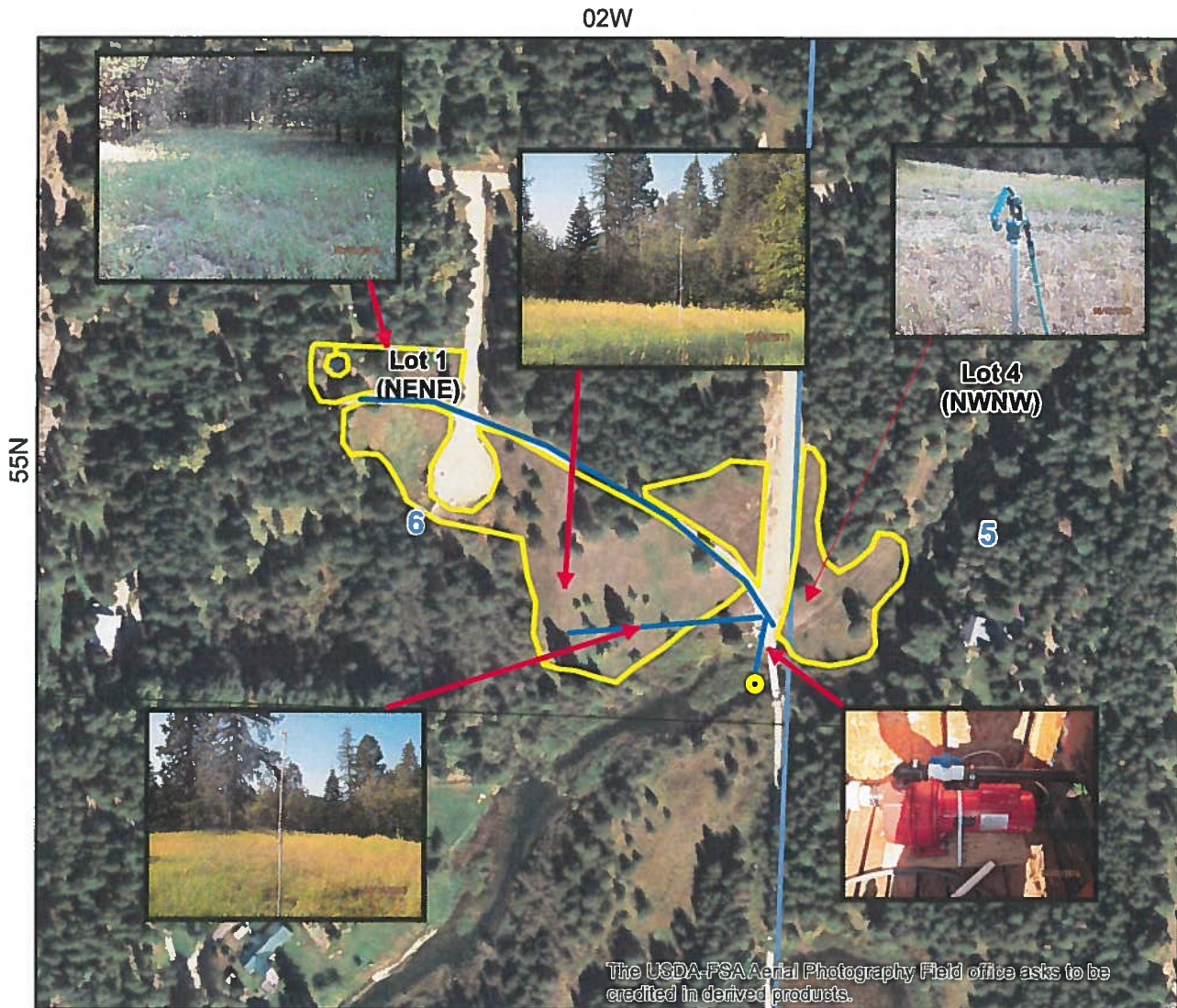
0 0.035 0.07 0.14 Miles

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections



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SYSTEM DIAGRAM



0 0.035 0.07 0.14 Miles

- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections



CENTRIFUGAL SELF-PRIMING SPRINKLER PUMPS

APPLICATIONS

Ideal for both residential and commercial lawn and turf sprinkling systems.

FEATURES & BENEFITS

- Rugged cast iron casing and pump base
- High efficiency thermoplastic impeller and diffuser
- BI models are configured with a brass impeller which is recommended for more demanding applications such as weir feeders*
- 2" NPT suction and 1-1/2" NPT discharge
- Easy to prime to 25' - no additional priming required after initial fill
- Maximum pressure to 47 psi
- Flow rates to 89 U.S. gpm
- RLSP Series can be set for use with 115 Volts or 230 Volts

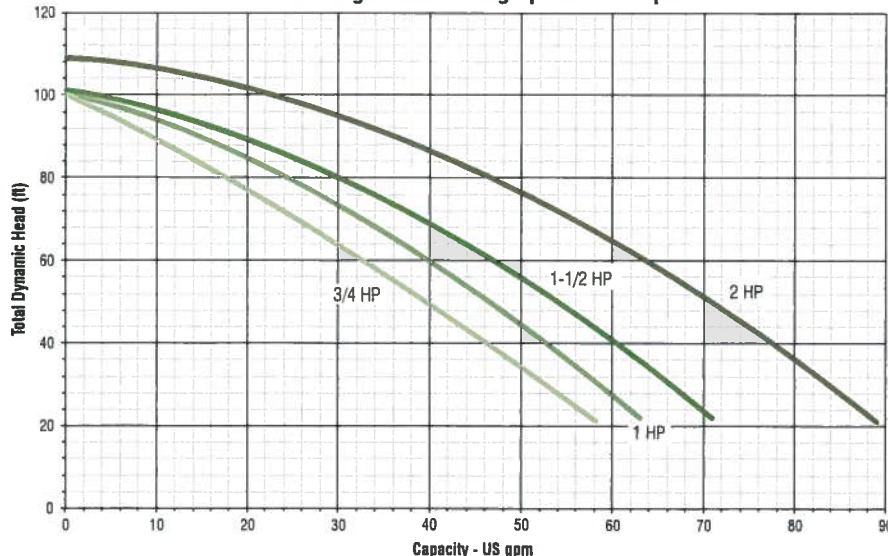


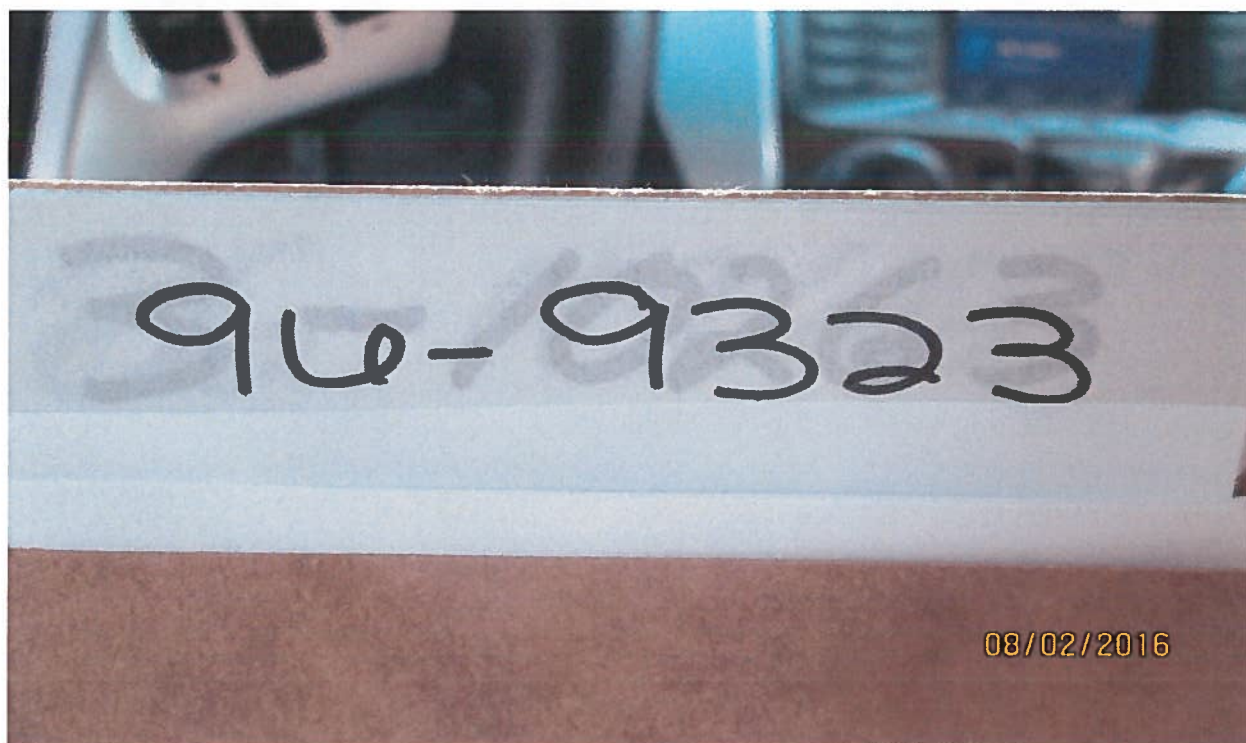
Model	Item Number	UPC	HP	Volts	Amps	Intake	Discharge	Discharge Pressure (PSI) at 5' Lift				Max. Pressure PSI	Max. Flow GPM
								10	20	30	40		
								Gallons Per Minute					
RLSP-75	614670	0 10121 12485 1	3/4	115/230	12.6 A @ 115 V / 6.3 A @ 230 V	2" NPT	1-1/2" NPT	58	46	29	7	43	58
RLSP-100	614671	0 10121 12486 8	1	115/230	16.4 A @ 115 V / 8.2 A @ 230 V	2" NPT	1-1/2" NPT	63	54	38	11	45	63
RLSP-150	614672	0 10121 12487 5	1-1/2	115/230	17.4 A @ 115 V / 8.7 A @ 230 V	2" NPT	1-1/2" NPT	71	60	44	15	44	71
RLSP-200	614673	0 10121 12488 2	2	115/230	20 A @ 115 V / 10 A @ 230 V	2" NPT	1-1/2" NPT	89	75	60	36	47	89
*RLSP-150-BI	614675	0 10121 14089 9	1-1/2	115/230	17.4 A @ 115 V / 8.7 A @ 230 V	2" NPT	1-1/2" NPT	71	60	44	15	41	71
*RLSP-200-BI	614676	0 10121 14090 5	2	115/230	20 A @ 115 V / 10 A @ 230 V	2" NPT	1-1/2" NPT	89	75	60	36	45	89

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RLSP-75	11.5"	20.5"	13"	54	1.77	18	6	3
RLSP-100	11.5"	20.5"	13"	57	1.77	18	6	3
RLSP-150	11.5"	20.5"	13"	60	1.77	18	6	3
RLSP-200	11.5"	20.5"	13"	63	1.77	18	6	3
RLSP-150-BI	11.5"	20.5"	13"	61	1.77	18	6	3
RLSP-200-BI	11.5"	20.5"	13"	64	1.77	18	6	3

Centrifugal Self-Priming Sprinkler Pumps





Entrance to property.



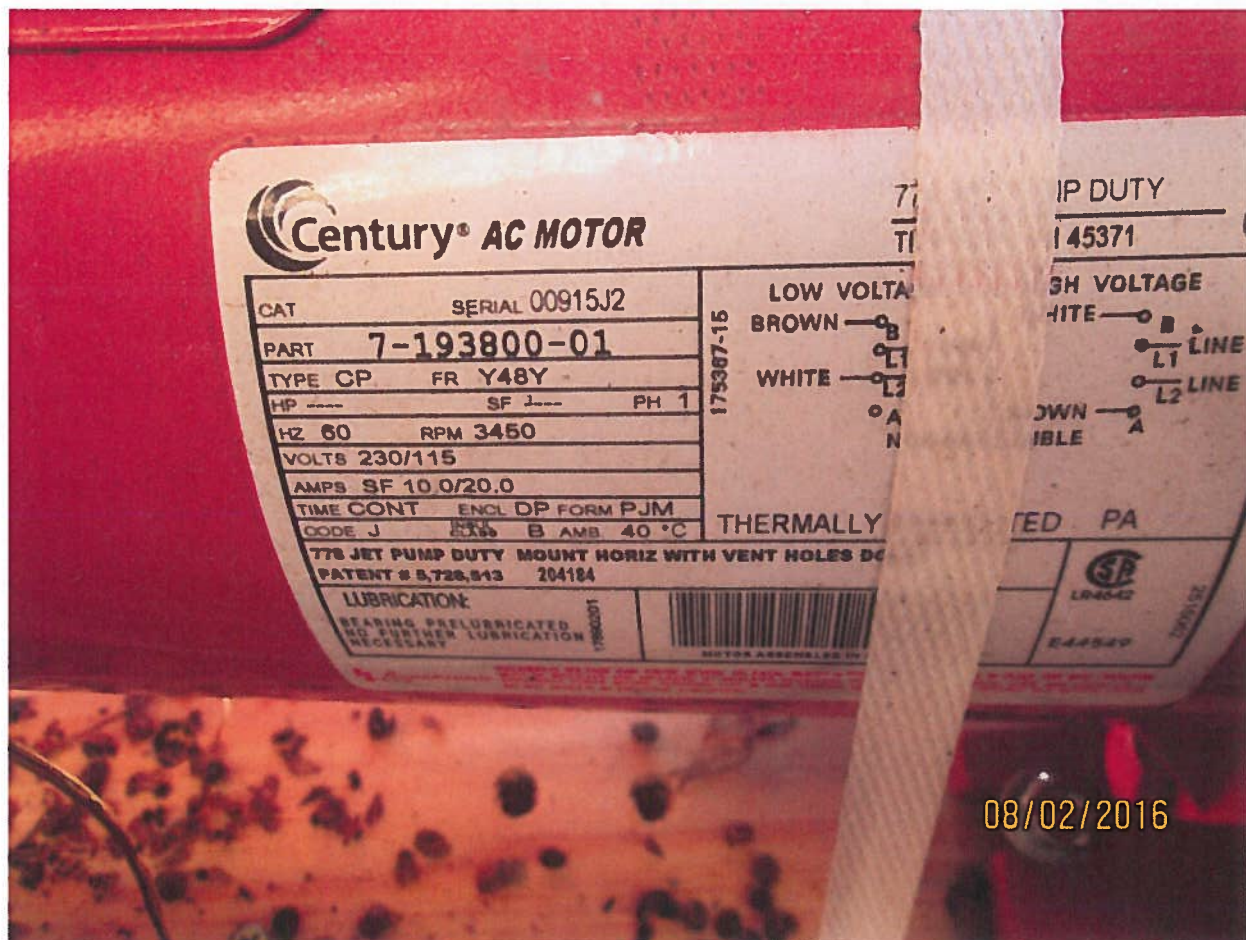
Pump intake.



Pump box.



Red Lion 2hp pump.





PVC piping running around property.



Frost free hydrant with hose.



Irrigation sprinkler running on top of 10 foot high PVC pole.



Additional hose connection at base of PVC pole.





 Century® AC MOTOR

CAT	SERIAL 00915J2	175367-15	LOW VOLTAGE	
PART	7-193800-01		BROWN —  B	
TYPE CP	FR Y48Y		WHITE —  L1	
HP ----	SF J----		PH 1	WHITE —  L2
HZ 60	RPM 3450		DOWN —  A	
VOLTS 230/115			IBLE	
AMPS SF 10.0/20.0				
TIME CONT	ENCL DP FORM PJM			
CODE J	INSUL CLASS B AMB. 40 °C		THERMALLY	
778 JET PUMP DUTY MOUNT HORIZ WITH VENT HOLES DC				
PATENT # 5,726,513 204184				
LUBRICATION:				
BEARING PRELUBRICATED NO FURTHER LUBRICATION NECESSARY				
				
MOTOR ASSEMBLED IN				

IP DUTY
145371

GH VOLTAGE
HITE —  B
L1 LINE
L2 LINE
DOWN —  A

TED PA


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08/02/2016