

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31509

Exam Date: 9/20/2007

1. Current Owner: JOHN G CARPENTER
27130 WINGSETTER LN
PARMA ID 83660
(208)722-7179
2. Accompanied by: Cindy Carpenter
Phone No: 208-722-7179
Address: Same as above
Relationship to Permit Holder: Spouse

3. **SOURCE**

ROSS EAST END DRAIN

TRIBUTARY

SOUTH BOISE DRAIN

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 SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

ROSS EAST END DRAIN L7 SE¼SW¼ Sec. 17, Twp 05N, Rge 05W, B.M. CANYON County

Method of Determination: Site visit and imagery

2.

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	
05N 05W 17												0.7					0.7
												L 7					

Total Acres: 0.7

Method of Determination: Site visit and 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**

n/a

Sta-Rite

2

Model C48M2EC11C3

Model DS3HG-01

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

D. FLOW MEASUREMENTS: Not obtainable**E. FLOW CALCULATIONS**x Additional Computation Sheets Attached
(pump specs)

Measured Method: Theoretical

Piping: 2 inch PV-line PSI: ~53

Lift: 11 feet

HP: 2

$$Q = \frac{8.8 \times 0.70 \times 2}{11 + (2.31 \times 53)} = 0.09 \text{ cfs or if using standard PSI of 40 the } Q = 0.12 \text{ cfs}$$

The spec sheet for this pump rates it at 76 gpm which is equivalent to 0.17 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.7 \times 4.5 = 3.15 \text{ or round to } 3.2$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.2 \text{ af/year}$$

G. NARRATIVE/REMARKS/COMMENTS: Applicant indicated they do not have any Riverside Irrigation shares. The corral to the SW is irrigated by Roswell Lateral and the upper lawn (approximately 0.3 acres) in the front of the home is irrigated with well water under their domestic use exemption.

→ pasture

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	0.020 CFS	3.2
	<u>Totals:</u>	0.020 CFS	3.2 AF

2. Recommended Amendments: None

___ 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

Field Examiner's Name Cherie Padilla Date 9/20/07
Reviewer Same Date 12/13/07

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Date Printed: 12/13/07



Print Window

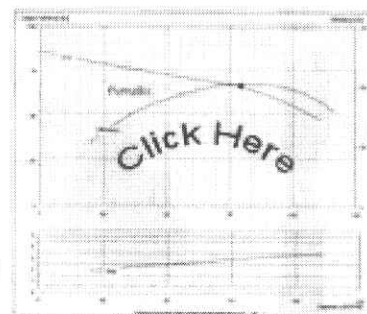
CLOSE WINDOW

Model Name: 2 hp Pro Storm**Specifications:** View list below**Description:**

The Pro Storm Series of cast iron sprinklers offer superior unmatched performance, available in 1 HP through 2 1/2 HP models. The Pro Storm offers "single-body-fill" priming to 25-foot lifts, in less than 5 minutes! The Pro Storm models exceed the strict safety requirements of Underwriters Laboratory UL778, and CSA. Required by many state and local codes. The Pro Storm models are completely interchangeable with the original Berkeley® LTH Series models, saving costly plumbing "changeout" dollars and installation headaches!

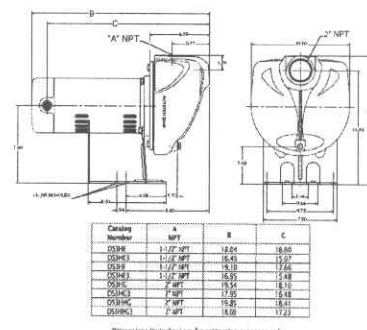
*Single and three phase available.

- Rugged Construction – Close grained cast iron body, specially treated for corrosion resistance.
- Noryl® Impeller – Precision-molded for perfect balance... ultra-smooth for highest performance and efficiency.
- Precision Molded Diffuser – Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.
- High Head Models – Deliver up to 145' of head with capacities to 95 GPM.
- Easy Serviceability – Normal wearing parts are easily accessible for service and replacement, without disturbing piping or mounting.
- Motor Windings – Superior insulation materials protect against excessive moisture and contaminants... ensures prolonged motor life.
- Balanced Rotor – Die cast under high pressures for uniform performance and greater efficiency, dynamically balanced.
- Drain Port – Provided for easy winterizing.

Model Number: DS3HG**Manufacturer: Sta-rite Water Pumps****Series:** Sprinkler pumps Pro Storm**Accessories:** Click to see suggested accessories for this product**Price: \$757.00**

▲ performance graph enlarge

Click to view: Outline Drawing



Specifications of: 2 hp Pro Storm

Maximum Flow:	76 gpm
TDH Maximum:	123 feet / 53.25 psi
HP Required:	2.00 hp
HP Standard:	2.00 hp

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Inlet Connection Type:	FNPT
Inlet:	2.00 inches
Outlet Connection Type:	FNPT
Outlet:	2.00 inches
Wetted Materials:	CI-Plastic
Elastomers:	Buna-Nitrile
Voltage:	230
Phase:	1
Frequency:	60
Motor:	ODP
Speed:	3450 RPM
Suction Lift:	25
Max. SG:	1.20
Viscosity:	1.00 cp 31.00 ssu
Max. Particle Size:	0.10
Mechanical Seal Face:	Carbon-ceramic
Mechanical Seal Type:	Single
Applications:	Irrigation
Usual Ship Time:	2-3 days
Weight:	83.00
Warranty:	1 years

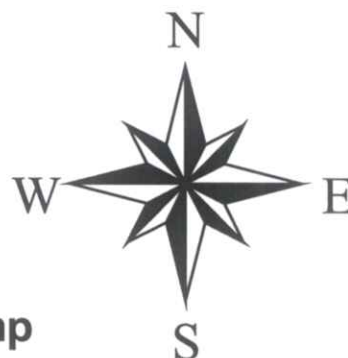
Plan of Use / Point of diversion
for 63-31509

Sec 17 T05N R05W



0.07 0 0.07 0.14 Miles

-  Canyon taxlots
-  GCDB05N05W GCDB
-  Sections
-  QQ
-  Permit POD
-  Administrative BasinsAdminbas.shp

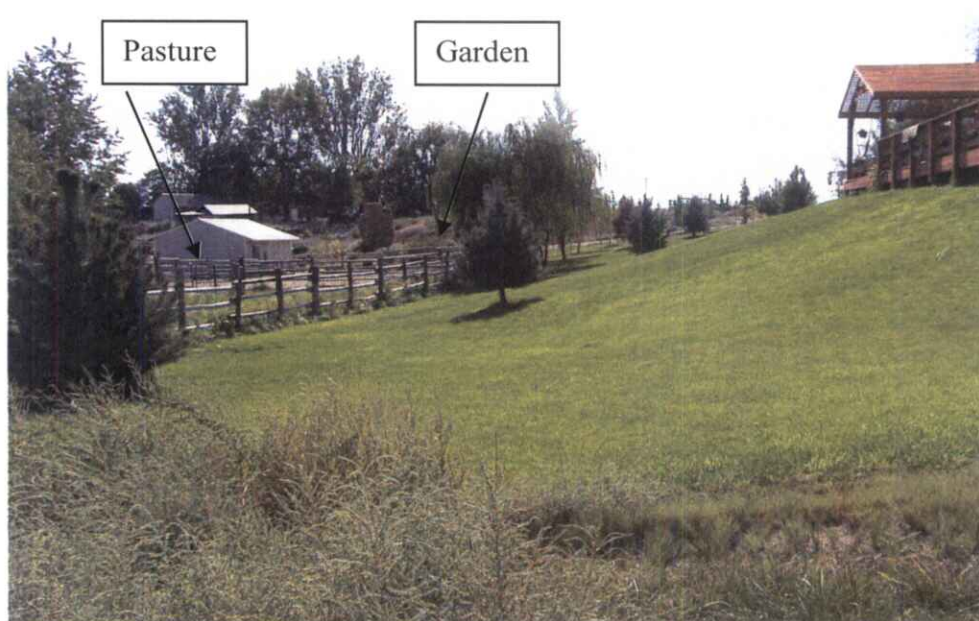




Backyard that gets irrigated under this right-facing to the north



Sprinkler box that runs the system for the backyard and pasture



Backyard that gets irrigated under this right-facing SE. Notice pasture to the left.

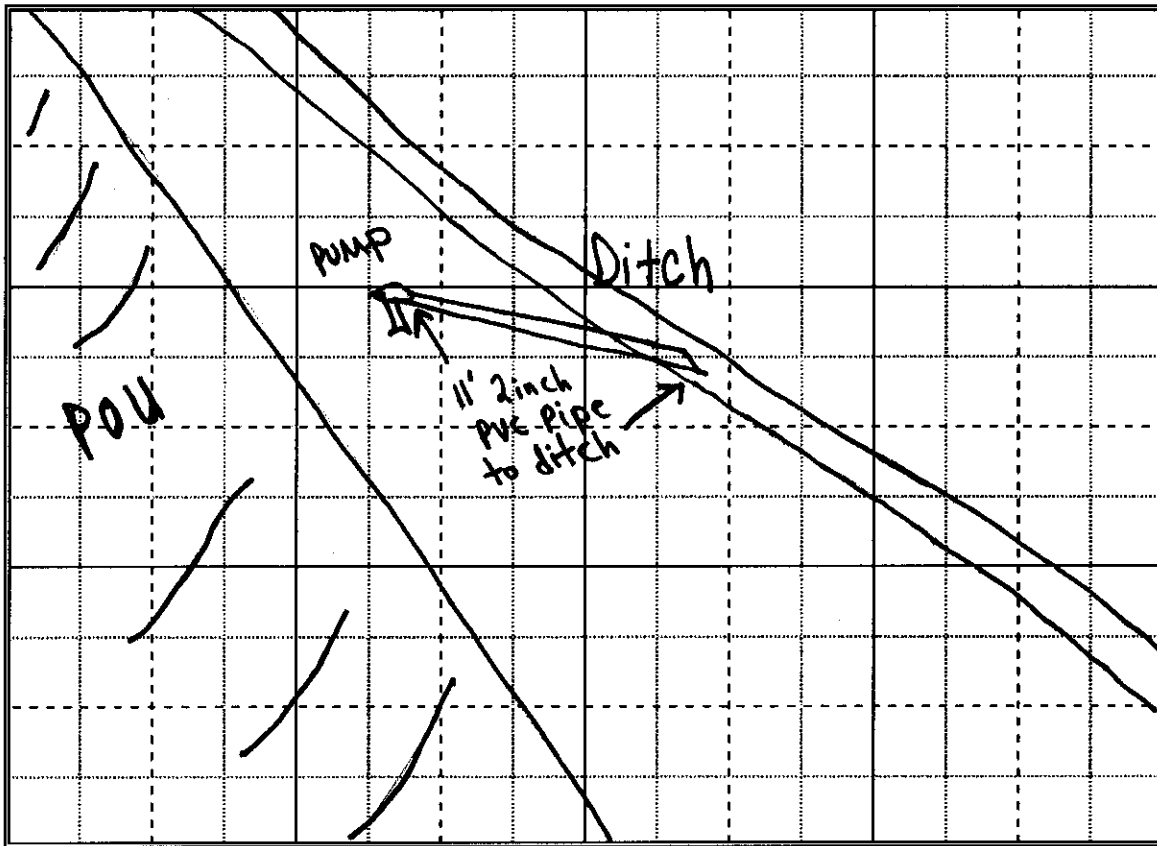


Pasture-picture taking facing east-the Drain runs through the backside of the property, just to the east of the pasture.

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



Scale: 1" = _____

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

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

____ 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
Sta-Rite →		2	Model 148M2E44C3		Model DS-3#6-C1

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

D. FLOW MEASUREMENTS

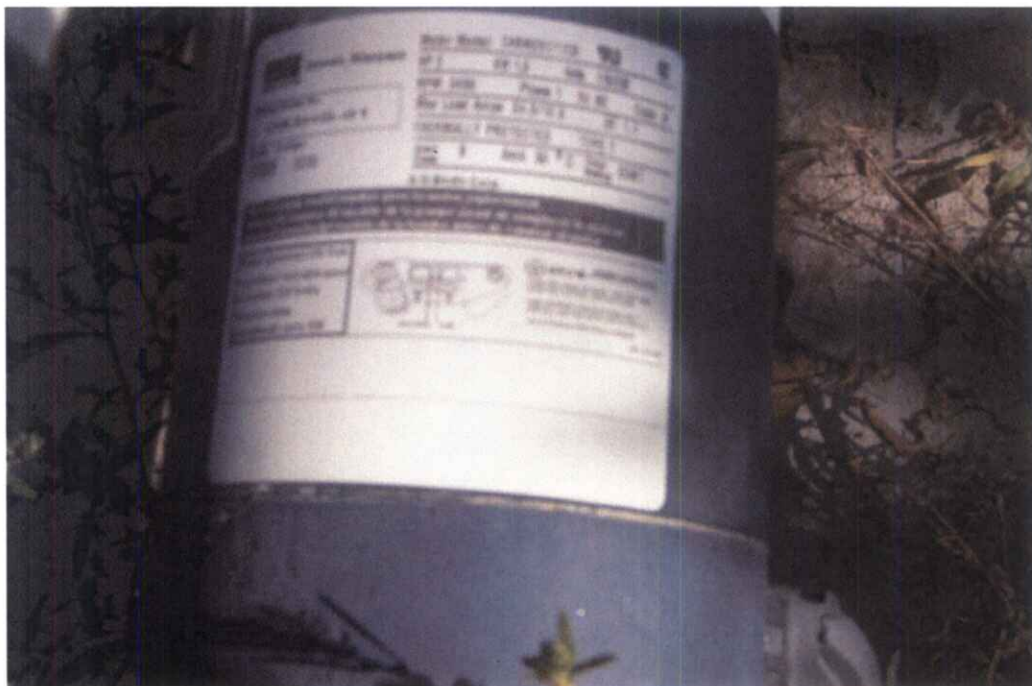
1.

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

2. 3 inch PV-line, 11 feet lift

Measurements:

Field Exam Pictures for 63-31509 taken 9/20/07



Pump



Diversion works

Field Exam Pictures for 63-31509 taken 9/20/07



Top

Photo of Drain and part of the diverting works. Picture is east facing.