

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-21480

Exam Date: 7/24/2012

1. Current Owner: C & W LAND LLC
960 W MAGIC RD #3
SHOSHONE ID 83352
(208) 420-5017

2. Accompanied by: None-I visited the wells on my own and acquired all other information remotely. Walter Dunlop is a co-owner of C&W and he's been the one helping me

3. SOURCE

GROUND WATER

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:**

GROUND WATER L2 (NW1/4NE1/4) Sec. 2, Twp 02S, Rge 17E, B.M. CAMAS County

Method of Determination: GPS

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
02S	17E	2	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
				X	X														
				L 2															

Method of Determination: Verification with Walter Dunlop

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. (See correspondence dated 7/20/12 from Walter Dunlop)
- ☒ 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**

D0036620

7.5

Sta-Rite

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

D. FLOW MEASUREMENTS

1.

Measurement

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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NA—I was in the area of this permit and was able to get GPS points for the wells but the well house was locked. There was no one to let me in so I had to collect system information from the office. This will be considered an “in-house” field exam.

2. Measurements:

- 1). Theoretical estimate using the horsepower equation
- 2). Pipe conversion—how much water can a 2" pipe accommodate
- 3). Pump performance curve

E. FLOW CALCULATIONS

__x__ Additional Computation Sheets Attached

Measured Method:

- 1). Depth to water: well driller's report shows that the well is cased to 229'—I will use 229' as the depth

Horsepower: 7.5 per Walter Dunlop

psi: unknown, I will use the standard pressure for a domestic system of 20 psi

efficiency: standard of 70%

$$8.8 \times 7.5 \times 0.7 / 229 + (2.31 \times 20) = 46.2/275.2 = \underline{0.17 \text{ cfs}}$$

- 2). When correctly designed at 5 fps a 2" pipe can accommodate 0.11 cfs ($5\pi r^2$)

- 3). 70 gpm or 0.16 cfs

In this case it looks like we have sufficient evidence to license this right at 0.17 cfs. Even though the permitted rate was for 0.20 cfs, all theoretical estimates point at **0.17 cfs** or less.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NA

2. Volume Calculations for Other Uses: 9 homes @ 1.2 af per home = 10.8 af

G. NARRATIVE/REMARKS/COMMENTS

There are nine homes that are stubbed-into the system. It appears that no lots have been developed at this time but all 9 lots were allowed one home and ½ acre of irrigation; the volume that I am recommending is based on current volume standards for domestic use.

The systems for 37-21479 and 37-21480 are identical; 2" pipes, 7.5 horsepower Sta-Rite pumps.

Note that this right is only good for 9 lots, some of the lots have been combined. This right will be appurtenant to the following lots: 2 and 5 of Block 1, 9 of Block 2, and 1-2 (combined into one lot), 4, 6, 7, 63 and 65 of Block 3.

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>
DOMESTIC	01/01 to 12/31	0.170 CFS	10.80 AF
<u>Totals:</u>		0.170 CFS	10.80 AF

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

Field Examiner's Name Cherie Oliver Date 7/30/12

Reviewer _____ Date _____

Attachment #1 - Well Driller's Report

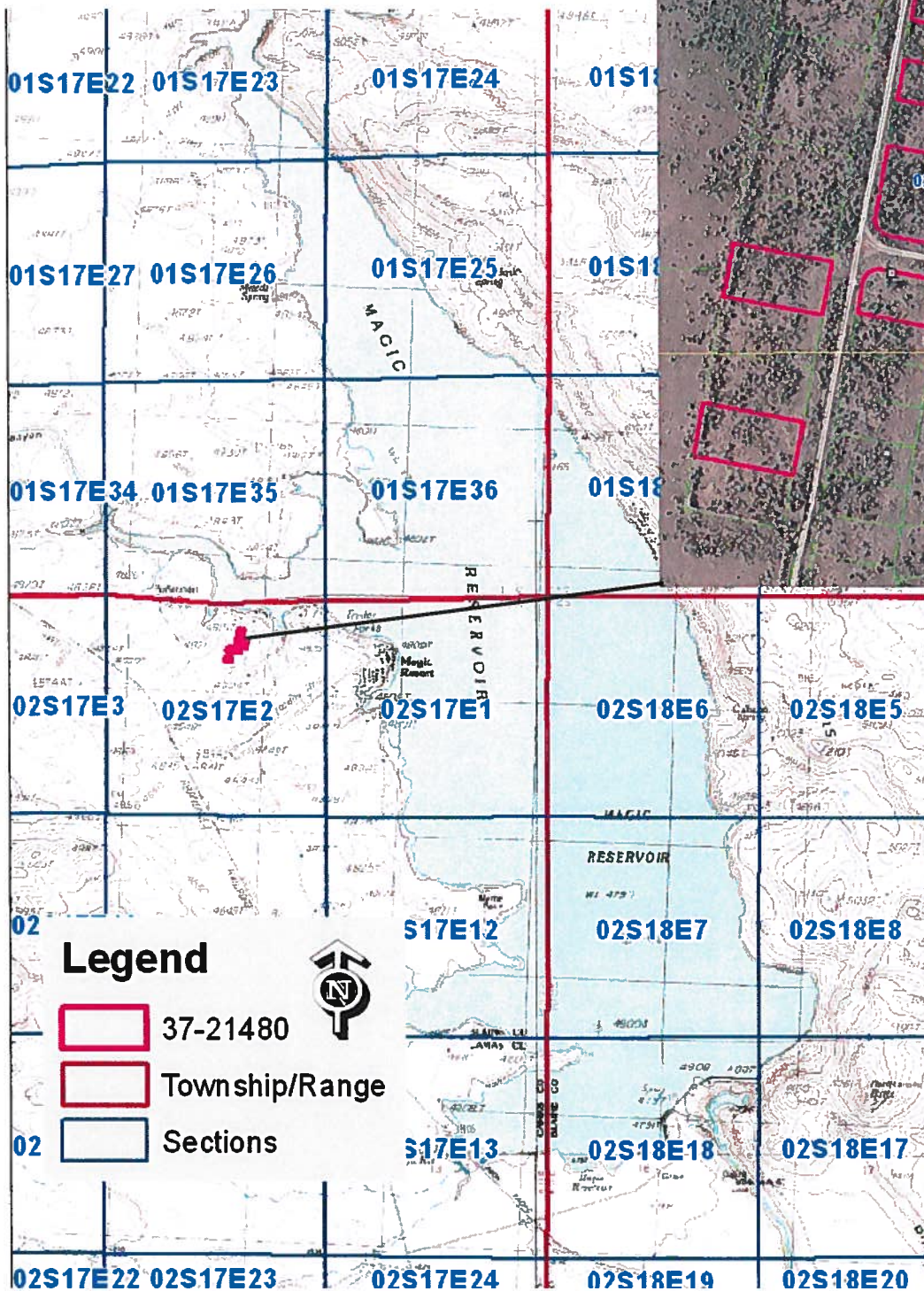
Attachment #2 - Pump Specs

Attachment #3 - Performance Curve

Attachment #4 - Overlap Analysis

Map/Aerial Photos

POU and PD for 37-21480



Photos



(Sign once if Firm Official & Operator)


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L6TS70 SERIES

STA-RITE / STA-RITE Products / L6TS70 Series

Print



Model L6TS70 Series

6" Submersible, 70 GPM, 1 thru 25 HP, 3" Discharge

The L6T6 Series submersible features heavy duty 304 stainless steel construction that will outperform ordinary fabricated stainless steel pumps in aggressive water conditions.

Perfect for municipal, multiple housing, commercial, water fountain, irrigation, mine de-watering, and farm use.

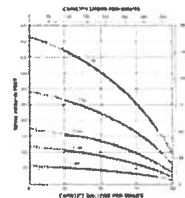
KEY FEATURES

- Heavy-Duty Investment Cast 304 Stainless Steel Discharge and Suction Bracket assures perfect pump-to-motor alignment with any NEMA-standard submersible motor
- Discharge assures secure connection to drop pipe
- Wrench flats provide positive grip during installation
- Low profile stainless steel lead guard aids installation in narrow wells
- Hard chrome-plated top bearing journal
- Built-in thrust protection protects pump during periods of high demand and start-up
- Built-in check valve

WARRANTY

1-year limited warranty

Performance



Accessories

- LEAD-FREE PRESSURE RELIEF VALVES
- PRESSURE SWITCHES
- PRESSURE GAUGES
- LEAD-FREE BRASS CHECK VALVES
- TORQUE ARRESTOR

SPECIFICATIONS

RESOURCES

HORSEPOWER: Available in 1 thru 25 HP

PERFORMANCE SERIES: 70 GPM

NUMBER OF STAGES: 1 to 25 (model dependent)

VOLTAGE: See Your Sta-Rite Dealer

SHELL: 304 Stainless Steel

DIAMETER: 5.63"

LENGTH: 15.65" to 47.54"

WEIGHT: 24 to 68 lbs

DISCHARGE: 3" NPT, Heavy-Duty, Investment Cast 304 Stainless Steel

DISCHARGE BEARING: Chrome Plated Steel

IMPELLERS: 304 Stainless Steel

DIFFUSER BOWLS: 304 Stainless Steel

SHAFT END COUPLING: 416 Stainless Steel

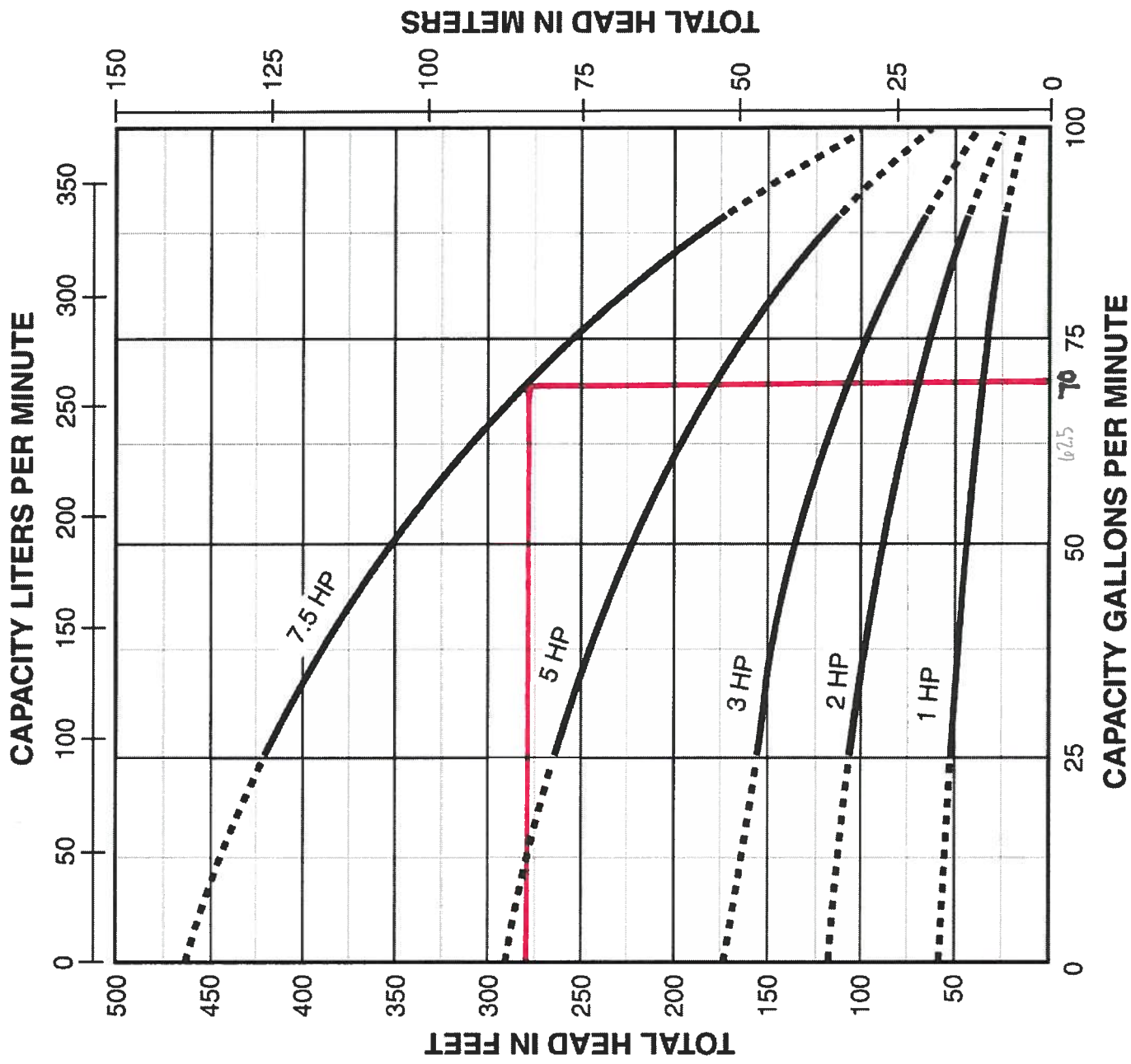
INTAKE: Heavy-Duty, Investment Cast 304 Stainless Steel

INTAKE SCREEN: 304 Stainless Steel

CABLE GUARD: Low-Profile 304 Stainless Steel

CHECK VALVE: 304 Stainless steel

Attachment #2
37-21480



Attachment #3
37-21480

Overlap Analysis for 37-21479

Type	WR #	Owner	Source	TRS	NWNE	SWNE	Significant Overlap Y/N
Permit	37 21480	C & W LAND LLC,	GROUND V 02S17E2	X	X	N	
Permit	37 21479	C & W LAND LLC,	GROUND V 02S17E2	X	X	N	
Right	37 13308	FRANK T DRYER,	GROUND V 02S17E2	X		N--covers Lot 21 Blk 4	
Right	37 12072	J KNOX BARCLAY, CHRISTOPHER T DU PONT,	GROUND V 02S17E2	X		N-covers Lots 1-7 Blk 4	
Right	37 13101	EVELYN M BUBB, ALWYN BUBB,	GROUND V 02S17E2	X		N-covers Lots 48 and 49 Blk 3	

Conclusion: There are no overlapping rights for the POU or PD

Attachment #4
37-21480