

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9385

Exam Date: 2/11/2015

1. Current Owner: NORTHERN WATER LLC
27769 W HWY 53
HAUSER ID 83854
(208)773-4695

2. Accompanied by: Norm Waldo
Relationship to Permit Holder: Owner

3. SOURCETRIBUTARY

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: 95-9277

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

GROUND WATER SE1/4SE1/4 Sec. 3, Twp 51N, Rge 05W, B.M. KOOTENAI County

GROUND WATER SE1/4SE1/4 Sec. 3, Twp 51N, Rge 05W, B.M. KOOTENAI County

Method of Determination: GPS and Maps. PODs location at 47° 47.439N, 116° 56.512W. Well tag D0041376 given tag A0003283. Well tag D0041375 given tag A0003284.

2.

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>	
51N 05W 4													X	X	X	X	

PLACE OF USE: MUNICIPAL

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>	
51N 05W 4													X	X	X	X	

Method of Determination:

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
D0041376	GRUNDFOS	25			
D0041375	GRUNDFOS	25			

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <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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N/A

2. Measurements:

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENTS BECAUSE NO EXPOSED PIPE. APPLICANT PUMPED WATER TO HOLDING TANK. $(25)(8.8)(0.8) / 350 + (40 \times 2.3087) = 0.40$ CFS PER WELL. 0.80 CFS COMBINED.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

2. Volume Calculations for Other Uses: SEE ATTACHED SHEET WITH CALCULATIONS FOR ANNUAL VOLUME.

G. NARRATIVE/REMARKS/COMMENTS

TWO WELLS, EACH 223 FEET DEEP, BOTH WITH 25HP PUMPS, SUPPLY A 120,000 AND A 180,000 GALLON RESERVOIRS. THEORETICAL PUMPING EQUATION USED BECUASE THERE WAS NO PROPER SPACE TO INSTALL FUJI FLOWMETER. LICENSE WILL BE LIMITED TO 0.75 CFS AND A ANNUAL VOLUME OF 42.66 ACRE FEET PER YEAR FROM AGREEMENT WITH KOOTENAI ENVIRONMENTAL ALLIANCE. 54 STUBBED IN LOTS VERIFIED DURING FIELD EXAM. APPLICANT WAS STARTING TO SELL LOT BUT BECAUSE OF ECONOMY HAD DONE ALL THE INFRASTRUCTURE BUT WAS JUST NOW STARTING TO HAVE HOMES BUILT. PICTURE OF STUBBED IN WATER METER LINE IN EXAM PHOTOS.

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>
FIRE PROTECTION	01/01 to 12/31	0.500 CFS	
MUNICIPAL	01/01 to 12/31	0.250 CFS	42.66 AF
<u>Totals:</u>		0.750 CFS	42.66 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

Adam Furdul

Date

12-16-2015

Reviewer

Beth L. Frankel

Date

12-31-2015

THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-9385

WELL (D0041375)

PUMP EQUATIONS WATER RIGHT						
			No.	95-9385		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/ H	25	442.51 7	0.8	350	40
Q = 0.398 cfs 178.8 gpm						

WELL (D0041376)

[illegible]

4/6/07

1.) 54 homes x 700 gpd = 37,800 gpd x 365 days/yr.
= 13,797,000 gpyr / 7.4805 gal / ft³
= 1,844,395.43 ft³ / 43,560 ft³/AF
= 42.34 AF or 42.3

2.) 1 Fire Station x 50 gpd = 50 gpd x 365 day/yr
= 18,250 gpyr / 7.4805 gal / ft³
= 2,439.68 ft³ / 43,560 ft³/AF
= 0.06 AF

3.) Commons Area x 400 gpd = 400 gpd x 214 day/yr
= 85,600 gpyr / 7.4805 gal / ft³
= 11,443.1 ft³ / 43,560 ft³/AF
= 0.26 AF or 0.3

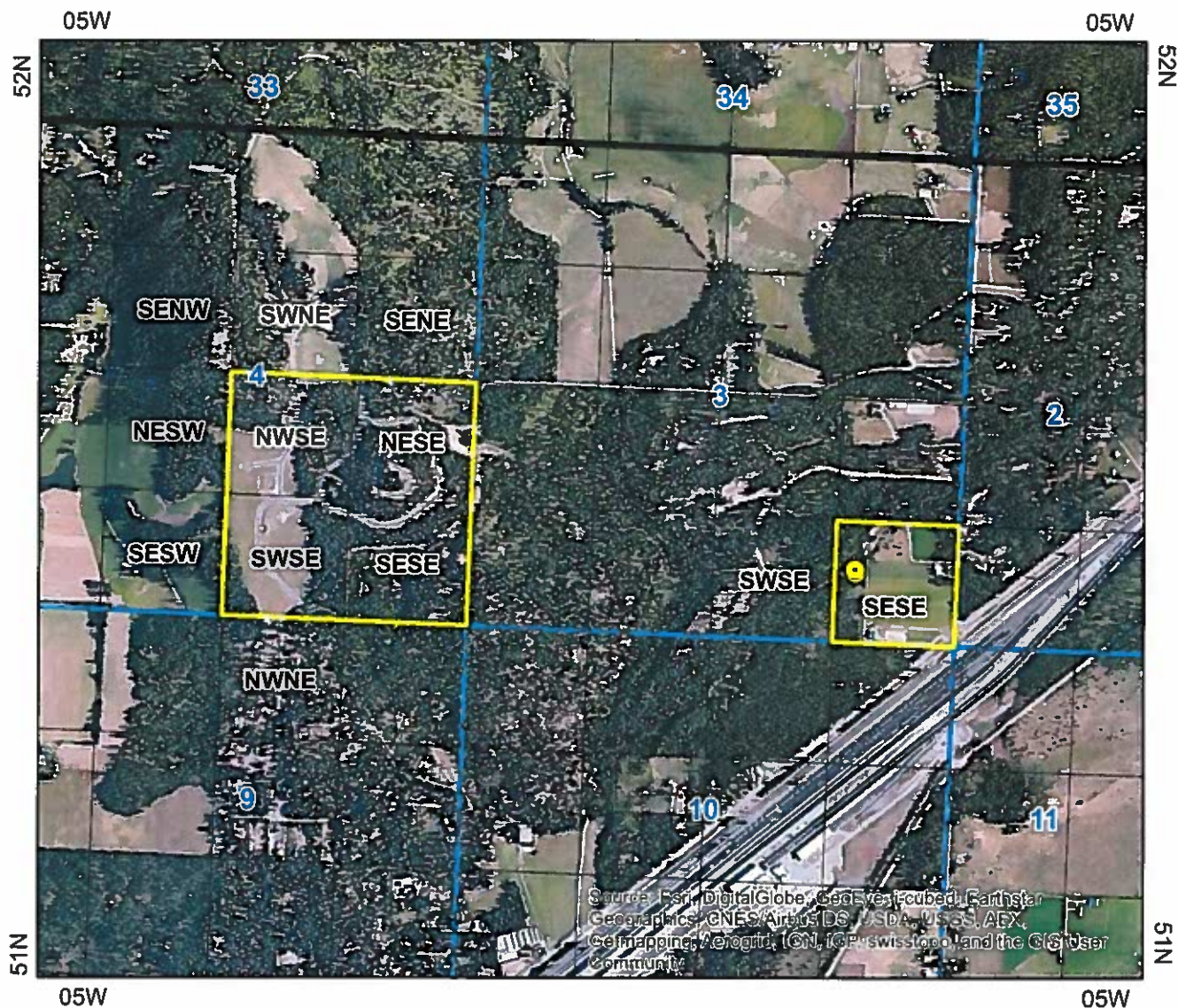
42.3

0.06

0.30

42.66 AF

State of Idaho
Department of Water Resources
Water Right License
95-9385
FIRE PROTECTION



Source: Esri, DigitalGlobe, GeoEye, iCubed, Earthstar
Geographics, CNES/Airbus DS, USDA, USGS, AEX,
GeoMapping, AeroGRID, IGN, IGP, swisstopo, and the GIS User
Community

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

0 0.225 0.45 0.9 Miles

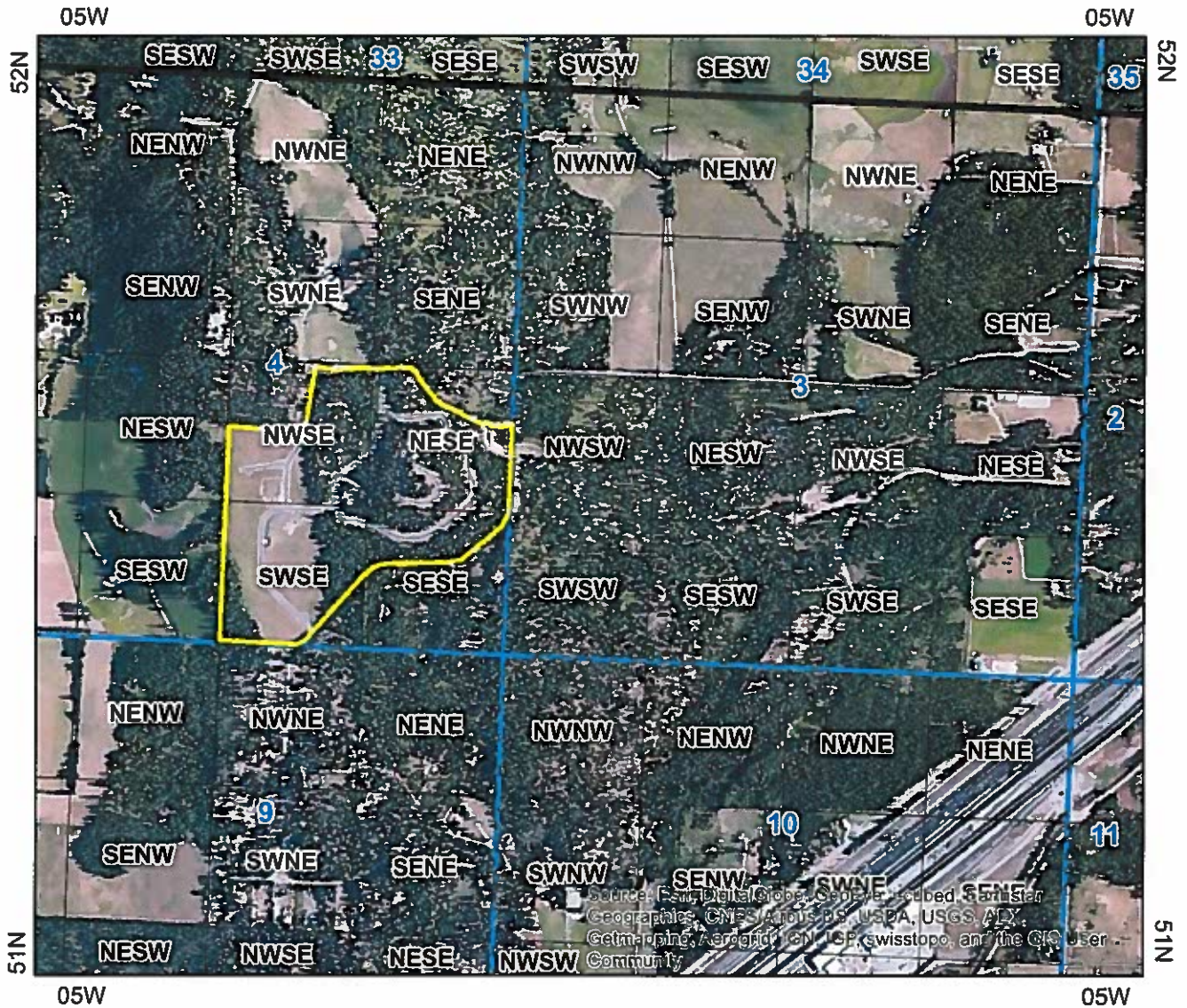


Northern Water Lic

Water Right License

95-9385

MUNICIPAL



-  Water Service Area Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

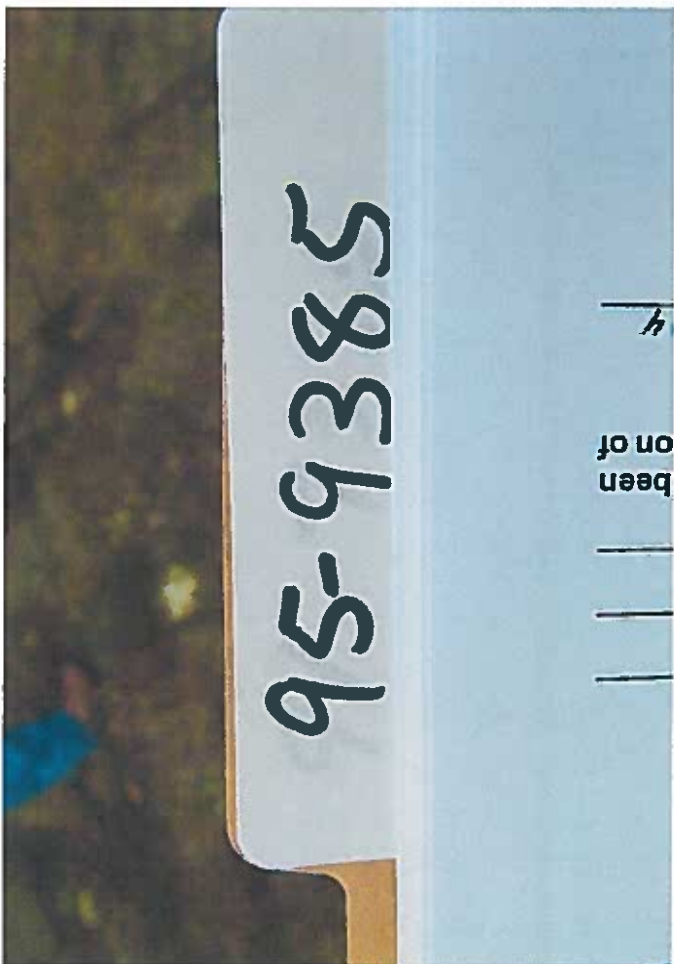
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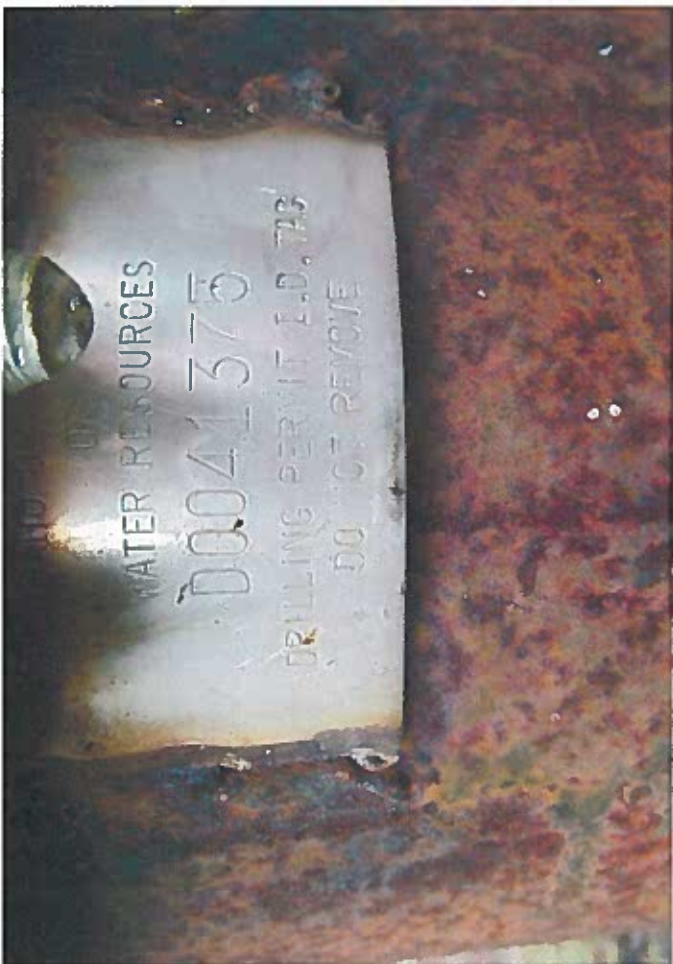
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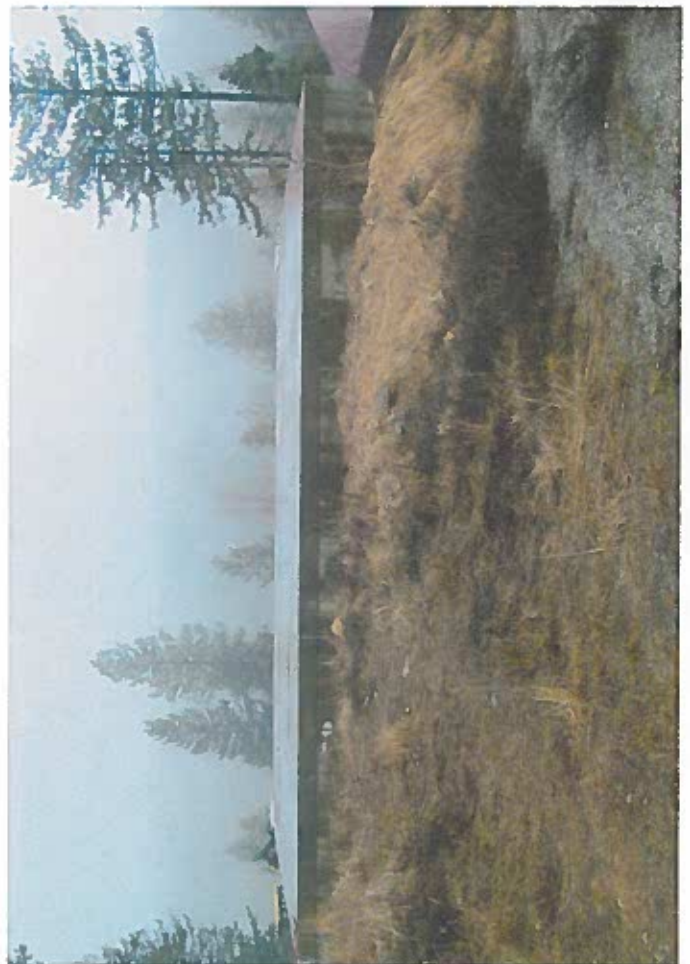
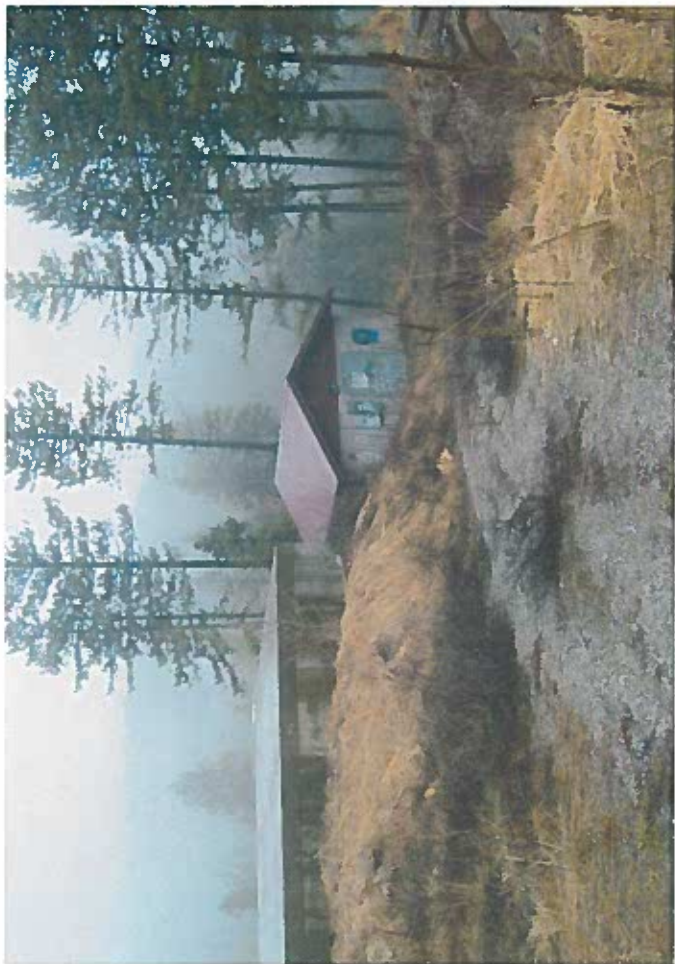
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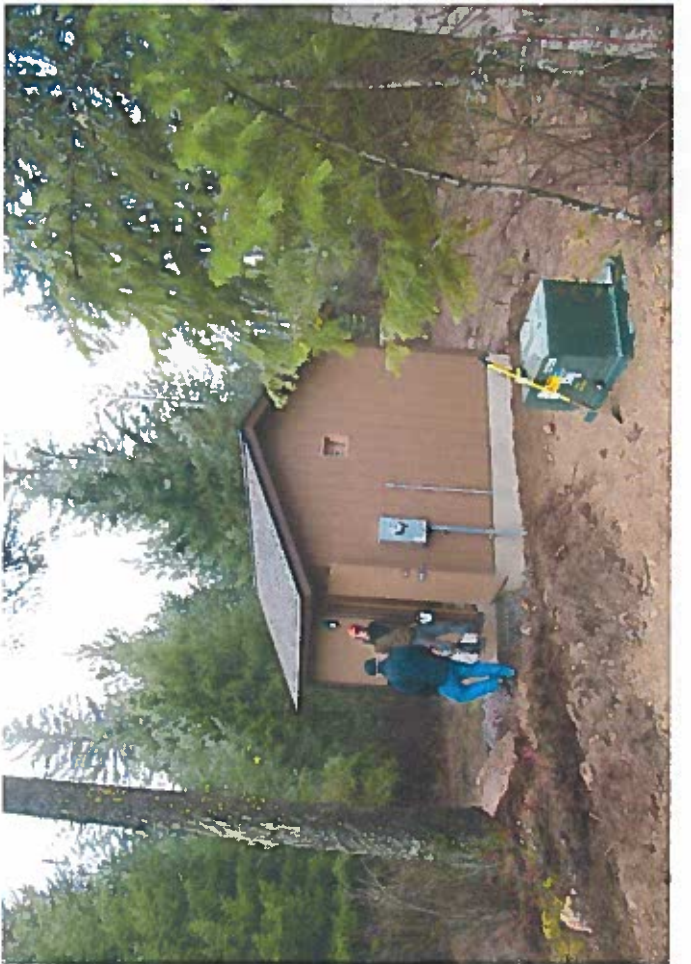
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Stubbed
in
Water
Line
Loc 54

95-0506

RECEIVED
MAR 18 2015
IDWR / NORTH

NORTHERN WATER LLC
27769 W HWY 53
HAUSER, ID 83854
208-661-8609
Email: normwaldo@gmail.com

Water Conservation Plan

Lost Creek Water Association encourages low flow appliances and landscaping. LCWA has entered into an agreement with Kootenai Environmental Alliance which has many water conserving factors. The overall factor is each house is limited to an average of 700 gpd.

If you have any other questions, please feel free to contact me.

Sincerely,



Norm G. Waldo
Managing Member



March 3, 2006

Waldo Construction
1831 Lost Springs Ranch Rd.
Post Falls, ID 83854
Ph# 773-6805

Attn: Mr. Norm Waldo

SUBJECT: Lost Creek Estates

We are pleased to submit the following estimate for the proposed water system for the Lost Creek Estates project. This quotation is based upon plans supplied by Mr. Jack Smetana of Frame and Smetana Consulting Engineers. The plans are dated October 14, 2005. The control / telemetry system is priced out based upon the use of a radio system to communicate between all three sites listed below. Pricing for the project will be as follows:

WELL SITE:

- 2 ea. – 25hp Grundfos production pump (# 150S250-14) installed in pre-existing wells. Well drilling to be done by others.
- 1 ls. – 3" galvanized drop pipe for both pumps. 8 hr.
- 4 ea. – 3" DI Flomatic in line check valves in the wells.
- 1 ls. – #8/4 Flat jacked cable for well pump motor leads down both wells.
- 2 ea. – 3" weld-on pitless adapter
- 2 ea. – 8" Vented Well Cap
- 1 ea. – Custom fabricated steel electrical panel stand (powder coated)
- 2 ea. – 25hp / 480v / 3ph combination pump starter panel
- 1 ea. – 480v / 3ph / 200amp meter socket
- 1 ea. – 480v / 3ph / 200amp panel board for individual circuits
- 1 ea. – Main control panel for well pumps / reservoir fill (PLC & radio telemetry).
- 1 ls. – Conduit, wire, gutter and fittings to complete electrical install.
- System start up and field readings
- Labor to install

BOOSTER PUMP SITE:

- 1 ea. – 3hp / 240v / 1ph Berkley Type "C" centrifugal pump.
- 1 ea. – 2" Cycle Stop hydraulic pressure sustaining valve.
- 1 ea. – PC144 Challenger pressure tank.
- 1 ls. – 3" DI piping manifold (suction and discharge).
- 2 ea. – DI pipe spools through the floor for suction & discharge.
- 1 ls. – Galv. piping plumbing pump into system.
- 1 ea. – 200amp / 1ph / 240v electrical service for building equipment.
- 1 ea. – Main control panel for duplex booster pump control (PLC & radio telemetry).
- 1 ls. – 240v Building heater.
- 1 ls. – Electrical lights and outlets for building (interior & exterior).

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat : : Long: : :

1. WELL TAG NO. D0041375

DRILLING PERMIT N 838852
Other IDWR No _____

2. OWNER:

Name Waldo Construction, Inc.
Address 1831 Lost Springs Ranch Road
City Post Falls State ID _____ Zip 83854

3. LOCATION OF WELL by legal description:

Twp 51N North ☒ or South ☐
Rge 05W East ☐ or West ☒
Sec 03 1/4 SE 1/4 SE 1/4
10 Ac 40 Ac 160 Ac
Gov't Lot _____ County Kootenai
Lat _____ Long _____
Address of Well Site: (see next line)

North Idaho Rd, Production Well #1 City Post Falls
Lot _____ Bk _____ Sub. Name (see next line)

4. USE:

☐ 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/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
Bentonite	0	65	52 Sacks	Dry Pour
Granular				

Drive Shoe Used? ☒ Y ☐ N Shoe Depth(s) _____ Ring Bk 223

Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casing	Liner	Weld	Thrd
8"	+2	-213	0.322	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations? Method _____
☒ Screens? Screen Type Stainless Steel

From	To	Slot	Nmbr	Diam	Material	Casing	Liner
212	222	.8		7	Stainless	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

147 ft. below ground. Artesian pressure _____ lb.
Depth flow encountered 147 ft. Describe access port or control devices: Steel Cap Welded

11. WELL TESTS:

☐ Pump ☐ Baller ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
150-200	100%	210	2 HR

Water Temp. _____ Cold Bottom hole temp. _____ Cold
Water Quality test or comments: (below) Depth first Water Encountered 147
Clear, Cold, No Smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water Y N
12	0	1	Top Soil	☐ ☒
12	1	65	Sand & Gravel Medium	☐ ☒
10	65	135	Sand & Gravel Medium	☐ ☒
10	135	180	Sand & Gravel Small	☒ ☐
10	180	187	Sand & Gravel Medium	☒ ☐
10	187	223	Sand & Gravel Small to Medium	☒ ☐

RECEIVED
APR 19 2006
IDWR/North

Completed Depth 222 (Measurable)
Date: Started 4/3/06 Completed 4/6/06

13. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm United Drilling Inc. Firm No 414
Name _____
Firm Official Jason C. Beckham Date 4/12/06
and _____
Supervisor or Operator Jason C. Beckham Date 4/12/06

51N 5W 3

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: : : Long: : :

1. WELL TAG NO. D0041376

DRILLING PERMIT N

838853

Other IDWR No _____

2. OWNER:

Name Waldo Construction, Inc.

Address 1831 Lost Springs Ranch Road

City Post Falls

State ID

Zip 83854

3. LOCATION OF WELL by legal description:

N
W E S
Twp 51N North ☒ or South ☐
Rge 05W East ☐ or West ☒
Sec 03 1/4 SE 1/4 SE 1/4
10 Ac 40 Ac 160 Ac
Gov't Lot _____ County Kootenai
Lat _____ Long _____
Address of Well Site: (see next line)

.5 Mi off NO RD from HWY 53 On L Well 52

City Post Falls

Lot _____ Blk _____

Sub. Name (see next line)

4. USE:

- ☐ 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/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
Bentonite	0	65	66 Sacks	Dry Pour
Granular				

Drive Shoe Used? ☒ Y ☐ N Shoe Depth(s) _____

Ring Bit 223

Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casing	Liner	Weld	Thrded
8"	+2	-211	0.322	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

- ☐ Perforations? Method _____
☒ Screens? Screen Type Stainless Steel

From	To	Slot	Nmbr	Diam	Material	Casing	Liner
210	220	.6		7	Stainless	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

147 ft. below ground. Artesian pressure _____ lb.

Depth flow encountered 147 ft. Describe access port or control devices: Steel Cap Welded

11. WELL TESTS:

- ☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
150-200	100%	218	2Hr

Water Temp. _____ Cold _____ Bottom hole temp. _____ Cold _____

Water Quality test or comments: (below) Depth first Water Encountered 147

Clear, Cold, No Smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water	
				Y	N
12	0	1	Top Soil	☐	☒
12	1	65	Sand & Gravel Medium	☐	☒
10	65	135	Sand & Gravel Medium	☐	☒
10	135	180	Sand & Gravel Small	☒	☐
10	180	187	Sand & Gravel Medium	☒	☐
10	187	223	Sand & Gravel Small to Medium	☒	☐

RECEIVED

APR 19 2006

IDWR/North

Completed Depth 220 (Measurable)
Date: Started 4/7/06 Completed 4/11/06

13. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm United Drilling Inc. Firm No 414
Name _____
Firm Official Jason C. Beckham Date 4/12/06
and _____
Supervisor or Operator Jason C. Beckham Date 4/12/06