

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-12594

Exam Date: 9/16/2015

1. Current Owner: JAMES M THORPE
PO BOX 2167
COEUR D ALENE ID 83816
(208) 765-9015
2. Accompanied by: James Thorpe

3. **SOURCE****TRIBUTARY**

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

GROUND WATER SE1/4NW1/4 Sec. 7, Twp 50N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 41.737, 116° 45.286 (A0015463)

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
50N	03W	7	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
										.9									.9

Total Acres: 0.9

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>
D0003006	FRANKLIN	3			

*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>
--	-------------	-------------	------------------	-------------------	-------------	--------------------

N/A

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r. THEORETICAL PUMPING EQUATION ESTIMATES (3 HP)(8.8)(.8) / 640 + (40 X 2.3087) = 0.03 CFS. ASSUMED 40 PSI AND PUMP SET AT 640 FEET.

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

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.9 \text{ AC} \times 3 \text{ AF} = 2.7 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 246 \times 1.9835 = 14.6 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 2.7 \text{ AF}$$

2. Volume Calculations for Other Uses:**G. NARRATIVE/REMARKS/COMMENTS**

MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r. FIELD EXAM TO CONFIRM ACTUAL ACREAGE IRRIGATED. FIELD EXAM SHOWED 0.9 ACRES OF IRRIGATION INSTEAD OF THE 2 ACRES APPLIED FOR. PUMP TAG WAS WORN OFF WHERE IT SHOWS HP SO FIELD EXAMINER LOOKED UP SERIAL NUMBER FROM BOX AND IT SHOWS IT CORRELATES TO A 3 HP PUMP. THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 13 GPM OR 0.03 CFS. LICENSE WILL BE ISSUED FOR 0.03 CFS FOR IRRIGATION OF 0.9 ACRES WITH AN ANNUAL VOLUME OF 2.7 AF.

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>
IRRIGATION	03/15 to 11/15	0.030 CFS	2.70 AF
<u>Totals:</u>		0.030 CFS	2.70 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

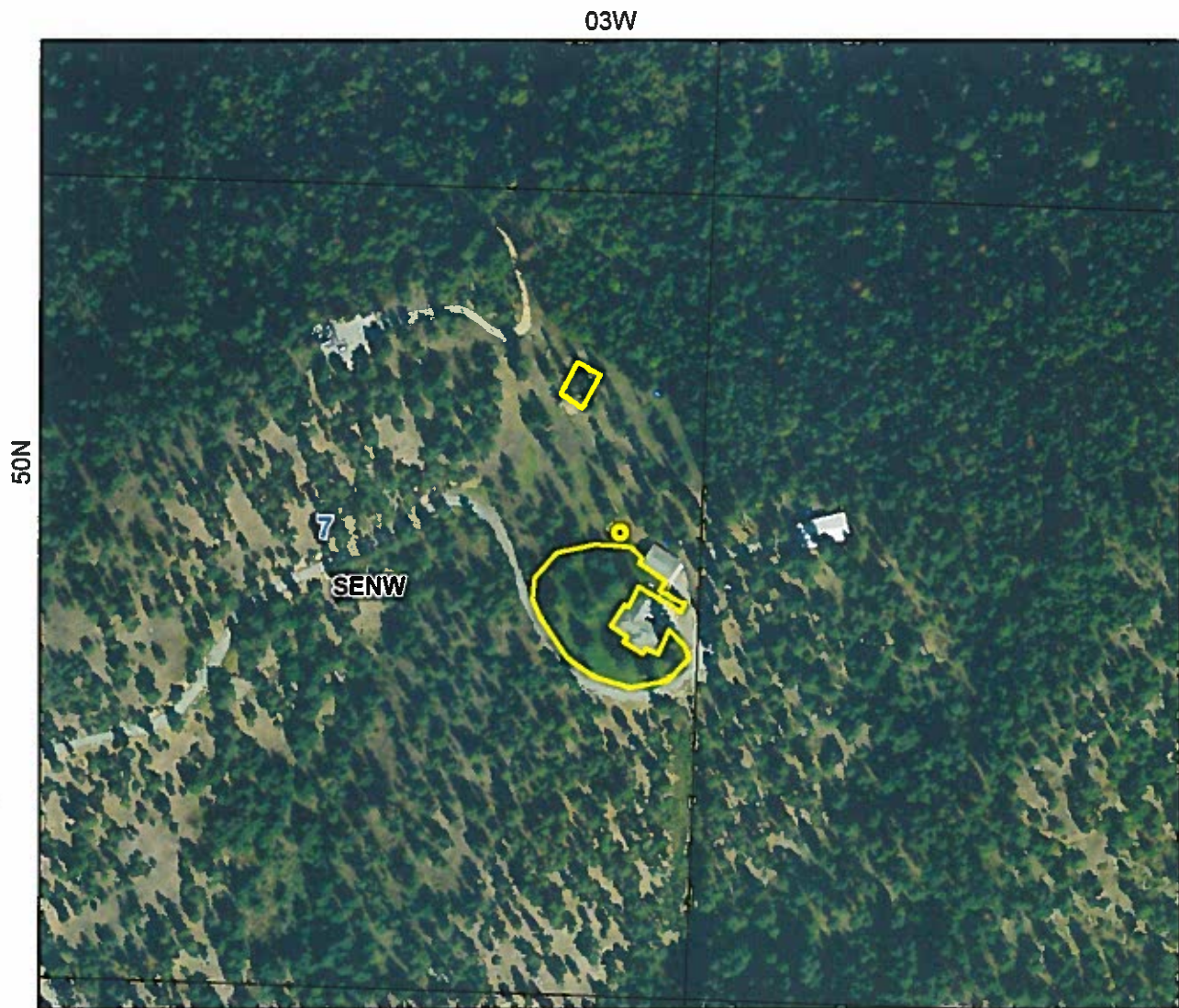
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam Funder Date 1-21-2016

Reviewer E. J. [Signature] Date 1-21-2016

State of Idaho
Department of Water Resources
Water Right License
95-12594



0 0.035 0.07 0.14 Miles

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



THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-12594

PUMP EQUATIONS WATER RIGHT No. 95- 12594						
		HP	H in feet	Efficienc y as a decimal	Pumpin g lift in feet	System pressur e in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	3	732.51 7	0.8	640	40
Q = 0.029 cfs 13.0 gpm						

ASSUMED 40 PSI AND PUMP SET AT 640 FT.

Form 238-7
3/95

POSTED

Use Typewriter or Ballpoint Pen

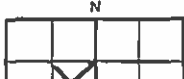
061841

Lat: : : Long: : :

1. DRILLING PERMIT NO. DO-00-3-000-
Other IDWR No. 95-88-N-69-100

City **Coeur d'Alene** State **ID** Zip **83814**

Sketch map location must agree with written location.


 Twp **50N** North ☒ or South ☐
 Rge **3W** East ☐ or West ☒
 Sec **07** 1/4 **S/E** 1/4 **N/W** 1/4
 Gov't Lot _____ County **Kootenai**
 Lat: _____ Long: _____
 Address of Well Site **2400 N. 15th Street**
 City **Coeur d'Alene**
 (Give at least name of road - Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

☐ New Well ☒ * Modify ☐ Abandonment ☐ Other Deepen

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
in place				

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Y ☒ N How? _____

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
4"	-20	660	.165	PVC	☐	☒	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

8 Perforations Method DM

☐ Screens Screen Type_____

From	To	Slot Size	Number	Diameter	Material	Casing	Line
						☐	☐
						☐	☐
						☐	☐

ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: **cap welded**

☐ Pump ☐ Bailer

Yield gal./min.	Drawdown	Pumping Level	Time
12 gpm	100%	680	1 hr.

Water Temp. cold Bottom hole temp. _____

Water Quality test or comments. _____

_____ Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

[illegible]

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

Firm Name **United Drilling Inc.** Firm No. **414**

Firm Official Jim Wallace Date 6/05/97

and _____

Supervisor or Operator Timothy R. Volking Date 6/05/97

(Sign once if Firm Official & Operator)

SENW 7 SON 3W

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

AUG 25 1988

457588

ELL OWNER

name Ron Moen

address 2400 N 15th St.
Coeur d'Alene, Id. 83814

owner's Permit No. 95-88-N-69-000

7. WATER LEVEL

Department of Water Resources

Static water level 210 feet below land surface.

Flowing? ☐ Yes ☒ No G.P.M. flow _____

Artesian closed-in pressure _____ p.s.i.

Controlled by: ☐ Valve ☐ Cap ☐ Plug

Temperature _____ °F. Quality _____

Describe artesian or temperature zones below.

NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal

☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

☐ Other _____ (specify type)

METHOD DRILLED

☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary

☐ Cable ☒ Dug ☐ Other _____

WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
<u>250</u> inches	<u>6</u> inches	<u>1</u> feet	<u>40</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
<u>160</u> inches	<u>4</u> inches	<u>8</u> feet	<u>600</u> feet
_____ inches	_____ inches	_____ feet	_____ feet

Has casing drive shoes used? ☒ Yes ☐ No

Has a packer or seal used? ☐ Yes ☒ No

Perforated? ☒ Drill ☐ Yes ☐ No PVC

How perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation 3/8 inches by 3/8 inches

Number	From	To
<u>500</u> perforations	<u>500</u> feet	<u>600</u> feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal depth 20 Material used in seal: ☐ Cement grout

☒ Bentonite ☐ Pudding clay ☐ clay

Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing

☒ Overbore to seal depth

Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld

☐ Cemented between strata

Describe access port _____

LOCATION OF WELL

Sketch map location must agree with written location.

Subdivision Name _____

Lot No. _____ Block No. _____

3W

SE 1/4 NW 1/4 Sec. 7, T. 50 N., R. 4 E., W.

11. DRILLERS CERTIFICATION

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

UNITED DRILLING INC.

Firm Name _____ Firm No. 414

P. O. BOX 2499 Co'A Id. 83814

Address _____ Date _____

Signed by (Firm Official) [Signature]

and

(Operator) Tim Volkman

RECEIVED

NOV 20 1987

Department of Water Resources

10.

Work started 7-25-88 finished 7-27-88

IDWR / NORTH

JUL 08 2010



Single-Phase Motors & Controls

MAINTENANCE

Table 51 Integral Horsepower Control Box Parts 60 Hz

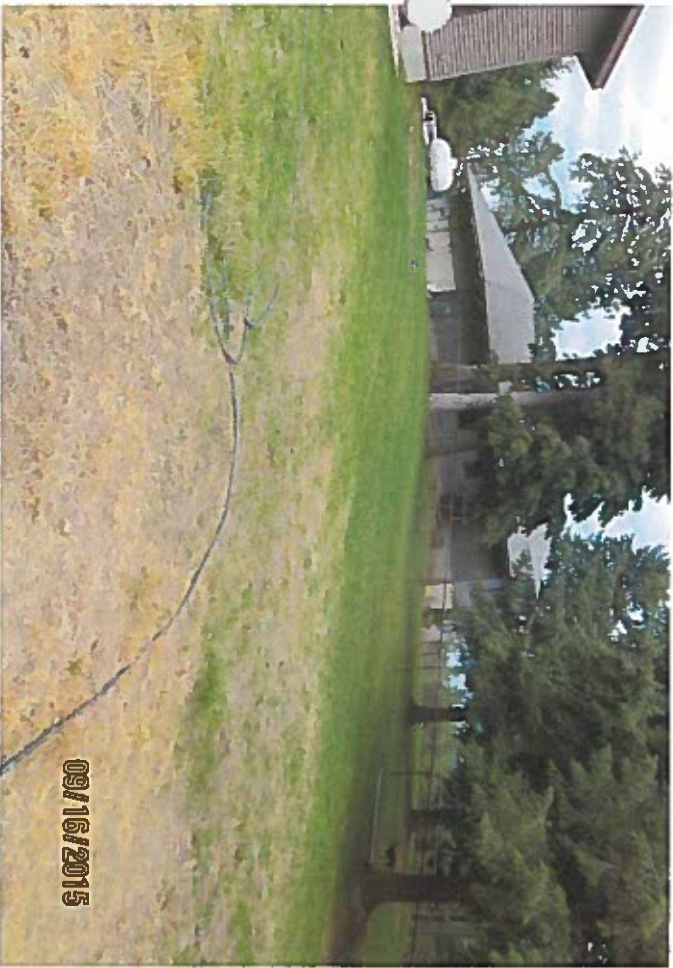
MOTOR SIZE	MOTOR RATING HP	CONTROL BOX (1) MODEL NO.	CAPACITORS				OVERLOAD (2) PART NO.	RELAY (3) PART NO.	CONTACTOR (2) PART NO.
			PART NO. (2)	M.F.D.	VOLTS	QTY.			
4"	1-1.5 STANDARD	282 300 8110 (See Note 5)	275 464 113 S 155 328 102 R	105-126 10	220 370	1 1	275 411 107	155 031 102	
		282 300 8110 (See Note 5)	275 464 137 S 155 328 101 R	105-126 15	220 370	1 1	275 411 114 S 275 411 113 M	155 031 102	
		282 300 8610	275 464 113 S 155 328 101 R	105-126 15	220 370	1 1	None (See Note 4)	155 031 102	
4"	2 STANDARD	282 301 8110	275 464 137 S 155 328 103 R	105-126 20	220 370	1 1	275 411 117 S 275 411 113 M	155 031 102	
4"	2 DELUXE	282 301 8310	275 464 137 S 155 328 103 R	105-126 20	220 370	1 1	275 411 117 S 275 411 113 M	155 031 102	155 325 102 L
4"	3 STANDARD	282 302 8110	275 463 123 S 155 327 109 R	208-250 45	220 370	1 1	275 411 118 S 275 411 115 M	155 031 102	
4"	3 DELUXE	282 302 8310	275 463 123 S 155 327 109 R	208-250 45	220 370	1 1	275 411 118 S 275 411 115 M	155 031 102	155 325 102 L
4" & 6"	5 STANDARD	282 113 8110	275 468 119 S 155 327 114 R	270-324 40	330 370	1 2	275 411 119 S 275 406 102 M	155 031 601	
4" & 6"	5 DELUXE	282 113 9310	275 468 119 S 155 327 114 R	270-324 40	330 370	1 2	275 411 119 S 275 406 102 M	155 031 601	155 326 101 L
6"	7.5 STANDARD	282 201 9210	275 468 119 S 275 468 118 S 155 327 109 R	270-324 216-259 45	330 330 370	1 1 1	275 411 102 S 275 406 122 M	155 031 601	
6"	7.5 DELUXE	282 201 9310	275 468 119 S 275 468 118 S 155 327 109 R	270-324 216-259 45	330 330 370	1 1 1	275 411 102 S 275 406 121 M	155 031 601	155 326 102 L
6"	10 STANDARD	282 202 9210	275 463 119 S 275 468 120 S 155 327 102 R	270-324 350-420 35	330 330 370	1 1 2	275 406 103 S 155 409 101 M	155 031 601	
6"	10 STANDARD	282 202 9230	275 463 120 S 275 468 118 S 275 468 119 S 155 327 102 R	130-154 216-259 270-324 35	330 330 330 370	1 1 1 2	275 406 103 S 155 409 101 M	155 031 601	
6"	10 DELUXE	282 202 9310	275 468 119 S 275 468 120 S 155 327 102 R	270-324 350-420 35	330 330 370	1 1 2	275 406 103 S 155 409 101 M	155 031 601	155 326 102 L
6"	10 DELUXE	282 202 9330	275 463 120 S 275 468 118 S 275 468 119 S 155 327 102 R	130-154 216-259 270-324 35	330 330 330 370	1 1 1 2	275 406 103 S 155 409 101 M	155 031 601	155 326 102 L
6"	15 DELUXE	282 203 9310	275 468 120 S 155 327 109 R	350-420 45	330 370	2 3	275 406 103 S 155 409 102 M	155 031 601	155 429 101 L
6"	15 DELUXE	282 203 9330	275 463 122 S 275 468 119 S 155 327 109 R	161-193 270-324 45	330 330 370	1 2 3	275 406 103 S 155 409 102 M	155 031 601	155 429 101 L
6"	15 X-LARGE	282 203 9621	275 468 120 S 155 327 109 R	350-420 45	330 370	2 3	275 406 103 S 155 409 102 M	155 031 601 2 required	155 429 101 L

FOOTNOTES:

- (1) Surge arrestors 150 814 902 are suitable for all control boxes.
- (2) S = Start, M = Main, L = Line, R = Run
Deluxe = Control box with line contactor.
- (3) For 208-volt systems or where line voltage is between 200 volts and 210 volts, a low voltage relay is required. On 3 hp and smaller control boxes use relay part 155 031 103 in place of 155 031 102 and use the next larger cable size than specified in the 230-volt table. On 5 hp and larger use relay 155 031 602 in place of 155 031 601 and next larger wire. Boost transformers per page 15 are an alternative to special relays and cable.
- (4) Control box model 282 300 8610 is designed for use with motors having internal overload protectors. If used with a 1.5 hp motor manufactured prior to date code 06H18, Overload/Capacitor Kit 305 388 901 is required.
- (5) Control box model 282 300 8110 with date code 11C19 (March 2011) and newer contain 15 MFD run capacitor and both start and run overloads. This box is designed for use with any Franklin 1.5 hp motor.



95-12594



95-12594



9C-12594



95-12594



95-13594