

79350

Page 1

Ident. No. - 98-79410

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public water of the State of Idaho

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JUN 30 2014

IDWR/NORTHERN

1. Name: MARK J OWENS
5861 PERKINS LAKE RD
MOYIE SPRINGS ID 83845
(208) 267-9967

2. Source: CURLEY CREEK Tributary to: KOOTENAI RIVER
GROUND WATER

3. Location of Point of Diversion:

#1 GROUND WATER, NE1/4SW1/4, Sec. 15, Twp 62N, Rge 03E, B.M., BOUNDARY County

#2 CURLEY CREEK, NE1/4SW1/4, Sec. 15, Twp 62N, Rge 03E, B.M., BOUNDARY County

4. Water will be used for the following purposes:

Purpose	From	To	RATE OF DIVERSION	ANNUAL VOLUME
FIRE PROTECTION STORAGE	01/01	to 12/31		9.0 AF
DIVERSION TO STORAGE	01/01	to 12/31	1.00 CFS	
WILDLIFE STORAGE	01/01	to 12/31		9.0 AF

5. Total quantity to be appropriated is: 1.00 CFS 9.0 AF

6. Proposed diverting works:

POINT OF DIVERSION #1

a. Type and size of devices used to divert water from the source: GROUND WATER SURFACES
THROUGH THE BOTTOM OF THE POND

b. Height of storage dam 3 feet;

Active reservoir capacity 6 acre-feet;

Total reservoir capacity 6 acre-feet;.

POINT OF DIVERSION #2

a. Type and size of devices used to divert water from the source: CULVERT FROM CREEK TO
POND

b. Height of storage dam 3 feet;

Active reservoir capacity 6 acre-feet;

Total reservoir capacity 6 acre-feet;.

79350

Page 2

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7. Time required for the completion of the works and application of the water to the proposed beneficial use is 5 year(s).

8.

PLACE OF USE: FIRE PROTECTION STORAGE, WILDLIFE STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
62N 03E 15									X	X							

9a. Who owns the property at the point of diversion? If other than applicant, describe the arrangement enabling the applicant to make this filing.

APPLICANT

9b. Who owns the land to be irrigated or place of use? If other than applicant, describe the arrangement enabling the applicant to make this filing.

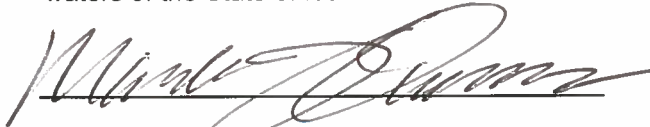
APPLICANT

10. Remarks:

APPLICANT IS WORKING WITH THE NRCS TO CREATE A POND FOR WILDLIFE PURPOSES THAT ENHANCES NATIVE VEGETATION WITHIN THE POND.

11. Map of proposed point of diversion and place of use attached? [X]

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

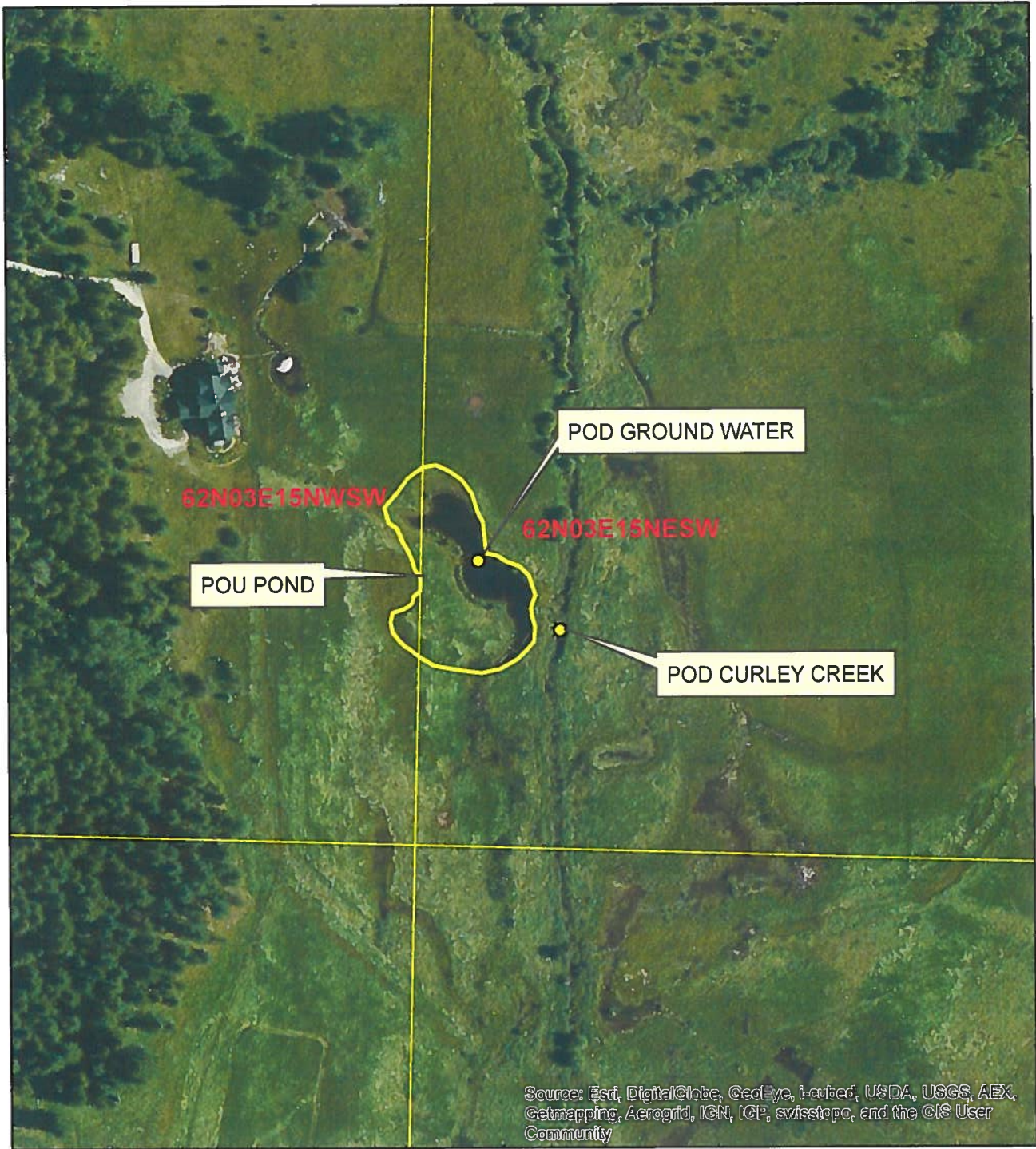


MARK J OWENS

Received by CJM Date 6/30/14 Time _____ Preliminary check by _____
 Publication prepared by _____ Date _____ Published in _____
 Publication approved _____ Date _____

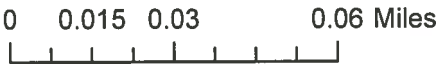
Receipt No. NO 30551Date: 6-30-14Received by: c.moritz

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Legend

- Working_POD
- Working_POU
- QQ
- Taxlots



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POND ANALYSIS SHEET
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SOURCE: CURLEY CREEK AND GROUND WATER

POND SIZE: 1 AC X 6FT (AVE. DEPTH) = 6 AF

SURFACE AREA: 43,560 SQFT

EVAPORATION: 2715 GPD X 365 DAYS / 325,850 GAL/AF = 3 AF

SEEPAGE: 0.0 AF (GROUND WATER ENTERS THE BOTTOM OF THE POND)

1 CFS

DIVERSION TO STORAGE

9 AF

WILDLIFE STORAGE

A) POND SIZE

6.0 AF

B) EVAPORATION

3.0 AF

C) SEEPAGE

0.0 AF

TOTAL

9.0 AF

9 AF

FIRE PROTECTION STORAGE

A) POND SIZE

6.0 AF

B) EVAPORATION

3.0 AF

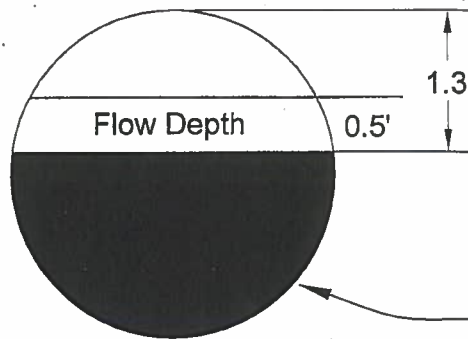
C) SEEPAGE

0.0 AF

TOTAL

9.0 AF

3' Dia. CMP Culvert



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Filled With Sediment

A = 1.40 sf
WP = 6.62 ft.
n = 0.025
S = 0.001

Estimated Maximum Flow Conditions

$$Q = \frac{1.49}{n} (A) (r_H)^{2/3} \sqrt{S}$$

$$r_H = \frac{1.40}{6.62} = 0.21 \text{ ft.}$$

$$Q = \frac{1.49}{0.025} (1.40) (0.21)^{2/3} \sqrt{0.001}$$

$$Q = 0.94 \text{ cfs} \approx \underline{\underline{1 \text{ cfs}}}$$

98-7940

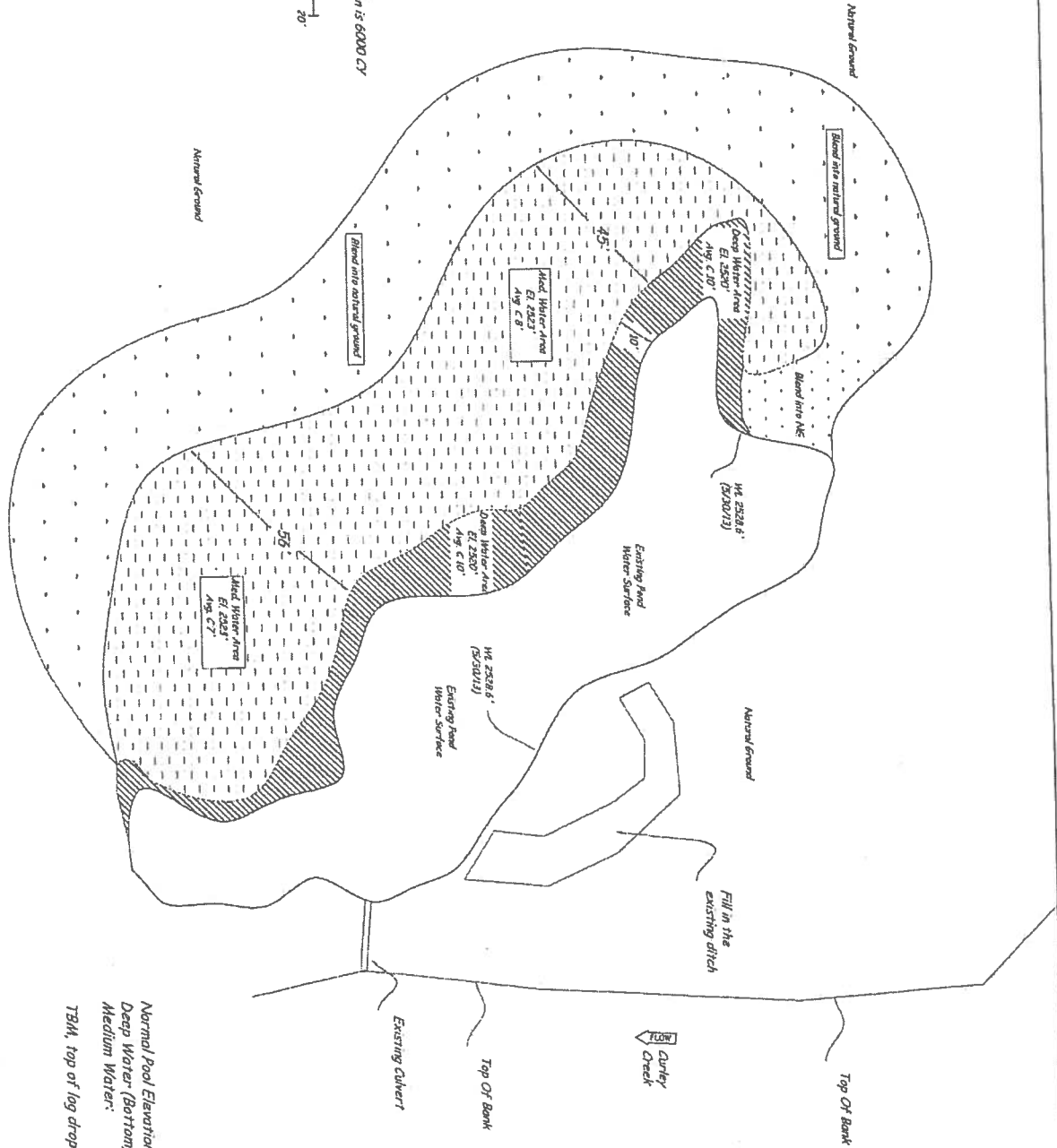
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Estimated excavation is 6000 CY
SCALE
0' 20'



Natural Pool Elevation: 2528.6'
Deep Water (Bottom): 2520.0'
Medium Water: 2523.0'
TBM, top of log drop = 2528.0

Sheet 6 of 6

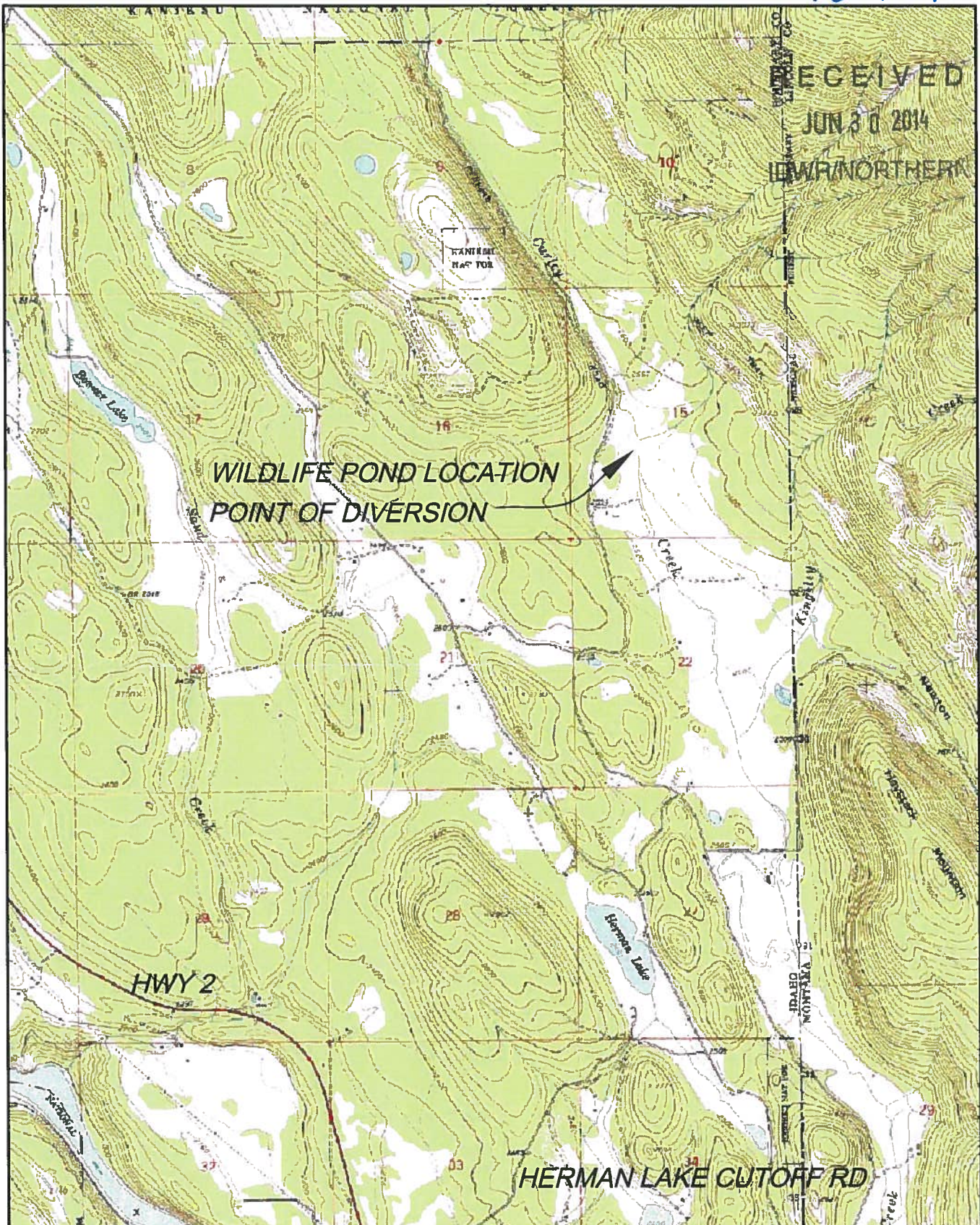


Thunder Mountain/Windy Pass WRP
Excavated Pond
Boundary County

Designed	ADorham	Date	6/20/13
Drawn	ADorham	Date	8/20/13
Checked			
Approved			

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Curley Creek Quad
T62N, R03E, Sec 15
Lat 48 43.3N Long -116 3.8W NAD83

Mark Owens
Thunder Mtn Water Right Application
Boundary County, Idaho

Designed _____ Date _____
Drawn _____
Checked _____
Approved _____

File Name
Drawing Name
Owens WRP.dwg
05/2014
Sheet 1 of 1