

[illegible]

D. FLOW MEASUREMENTS

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calibration Date
N/A						

Measurements N/A

E. NARRATIVE/REMARKS/COMMENTS

IRRIGATION USE: ArcMap and Bonner County information lists the Tangen's as current owner of the property. Point of diversion is an irrigation pump located on the east side of the property in a channel leading to the river, not in the river. Irrigation confirmed using ArcMap. The 0.3 acres is the yard around the house. There is a ground water domestic right, 96-9677, that includes up to 1/2 acre of irrigation for this property also. This right and water right 96-9677 will be limited to the irrigation of 1/2 acre when combined.
Assume fish screen is installed with submission of Proof.

Have conditions of permit approval been met? ☒ Yes ☐ No

F. FLOW CALCULATIONS

Measured Method: ☒ Additional Computation Sheets Attached
ALLOW PERMIT RATE

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A
 $VI.R. = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.3 \times 3 = 0.9$
 $VD.R. = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irragions Season}) \times 1.9835 = 12.7$
 $V = \text{Smaller of VI.R. and VD.R.} = 0.9$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amount

BENEFICIAL USE	PERIOD OF USE		RATE OF DIVERSION ANNUAL	
	From	To	Q(cfs)	V(afa)
IRRIGATION	04/01	10/31	0.03	

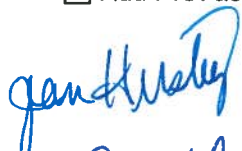
TOTALS 0.04

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 Jean Hersley
Reviewer




Date 12/12/17
Date

12-12-17



Untitled - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:732

Process POU POD Wells SC WMIS Dam Safety UIC WRA Hydrologic Enforcement Tools

Identify from: Taxlots

Taxlots

TANGEN, GREGORY & DEANNA

Location: 2,303,017.759 1,898,019.911 Meters

Field	Value
ID	8428236
UPDATED	6/29/2017
PIN	RP57N03W269901A
OWNER	TANGEN, GREGORY & DEANNA
ADDRESS1	372 SNUG HARBOR
ADDRESS2	
CITY	SANDPOINT
STATE	ID
ZIPCODE	83864
P_ADDRESS	372 SNUG HARBOR
P_ZIPCODE	83864
SUB_NAME	
LEGAL1	26-57N-3W E 110FT OF GOV LOT 15 OF RR R/W
LEGAL2	<null>
LEGAL3	<null>
LEGAL4	<null>
LEGAL5	<null>
LEGAL6	<null>
ACRES	1
COUNTY	Bonner
SOURCE	<null>
YEAR_BUILT	1984

Identified 1 feature

GESE

SWW

Drawing

2303134 1898089,564 Meters

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 96-9678
 Reviewer: Jean Hersley
 Date of Review: 12/12/2017

P/D No.:

	Well #1	Well #2	Well #3
PUMP HORSEPOWER	1	1	1
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	120	120	120
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.03	0.03	0.02
	13	12	11
			35.45

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

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JUN 28 1984

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESUSE TYPEWRITER OR
BALLPOINT PEN

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.

Department of Water Resources

1. WELL OWNER

Name Greg TanganAddress 6227 Hwy 2 sandpoint, Id.Owner's Permit No. 96-84-N-45

2. NATURE OF WORK

- ☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

- ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

- ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☒ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	6 inches	1 feet	120 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☒ Yes ☐ NoWas a packer or seal used? ☐ Yes ☒ NoPerforated? ☐ Yes ☒ NoHow perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☒ Yes ☐ NoManufacturer's name BookType stainless steel Model No. _____Diameter 6 Slot size 30 Set from 120 feet to 125 feet

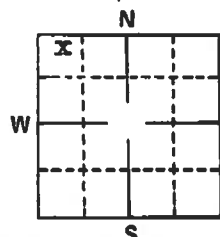
Diameter _____ Slot size _____ Set from _____ feet to _____ feet

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

Placed from _____ feet to _____ feet

Surface seal depth 18 Material used in seal: ☐ Cement grout☒ Bentonite☐ Puddling clay☐ _____Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing☐ Overbore to seal depthMethod of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld☐ Cemented between strataDescribe access port well cap

6. LOCATION OF WELL

Sketch map location must agree with written location.

Subdivision Name _____

Lot No. 1 Block No. _____County BonnerE. 1/4 N. 1/4 Sec. 26, T. 57 N. N/S, R. 3 W. E/W.

7. WATER LEVEL

Static water level 7 feet below land surface.Flowing? ☐ Yes ☒ No G.P.M. flow _____

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

Controlled by: ☐ Valve ☐ Cap ☐ Plug

Temperature _____ OF. Quality _____

Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☒ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
20	125	2

9. LITHOLOGIC LOG

Bore Diam.	Depth		Material	Water	
	From	To		Yes	No
8	1	118	blue grey clay	x	
6	118	125	sand & pea gravel	x	
6	125	135	blue silt		

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JUN 25 1984

Department of Water Resources
Northern District Office

MICROFILMED

10.

Work started 6-11-84 finished 6-13-84

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were
complied with at the time the rig was removed.Firm Name Bronson Water Wells Firm No. 360Address Box 1 Spirit Lake, Id. Date 6-25-84Signed by (Firm Official) [Signature]

and

(Operator) _____