

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-14423

Exam Date: 9/24/2013

1. Current Owner: COUNTY OF ADAMS RECREATION DISTRICT
PO BOX 401
COUNCIL ID 83612
(208)253-4201
2. Accompanied by: Byron Hallett
Phone No: 208-253-4579
Address: Same
Relationship to Permit Holder: Recreation Department Chairman

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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW1/4SE1/4 Sec. 10, Twp 16N, Rge 01W, B.M.
ADAMS County

Method of Determination: Arc Map (Aerial Photo); GPS – Latitude N.44°44.023', Longitude W.116°26.439'; Datum – NVD83.

2.

PLACE OF USE: IRRIGATION

Tw	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>	
16N	01W	10															5.0		5.0

Total Acres: 5.0

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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 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 Size</u>
_D0030524_____	_Franklin_	_7.5_	_Unknown_____	_Jacuzzi_____	_____2"_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

D. FLOW MEASUREMENTS

1.

<u>Measurement 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: No field measurement. Irrigation system not in operation during the field exam. Rain Bird Model 6504 sprinklers with #12 nozzles @ 60 psi = 12.2 gpm. $Q = 5 \times 12.2 \text{ gpm} = 61.0 \text{ gpm} \sim 0.14 \text{ cfs}$.

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 7.5/325 + (2.31 \times 60) = 46.2/463.6 = 0.10 \text{ cfs}$$

$$Q(\text{sprinkler}) = 5 \times 12.2 \text{ gpm} = 61.0 \text{ gpm} \sim 0.14 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.10 \text{ cfs} < 0.14 \text{ cfs } Q(\text{sprinkler}) < 0.40 \text{ cfs } Q(\text{permit})$$

$$HP = 7.5$$

$$Z = 325'$$

$$P = 60 \text{ psi}$$

Appears that the current pumping system cannot attain the permit diversion rate of 0.40 cfs for irrigation of 20.0 acres as indicated on the permit. However, since the irrigable area is only 5.0 acres, the current pumping system is capable of delivering the maximum allowable diversion rate of 0.02 cfs/acre. Recommend the current pumping system capacity of 0.10 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5.0 \times 4.0 = 20.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.10 \times 246 \times 1.9835 = 48.8 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 20.0 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A 7.5-hp submersible pump diverts ground water for irrigation of approximately 5.0 acres of Adams County property. The property is comprised of two (2) baseball fields and small open/common space area.

IRRIGATION SYSTEM:

The Adams County Recreation Department's baseball fields and open/common space area are irrigated by a pressurized irrigation system with Rain Bird Falcon rotary sprinklers. The pressurized irrigation system is comprised of 14 stations. The sprinklers are a mixture of the Falcon Model 6504 and the Model 5000 rotary sprinklers. The stations which operate the Model 6504 sprinklers contain between 4 and 5 sprinklers per station. The stations which operate the Model 5000 sprinklers contain 9 sprinklers per station.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 67-14423.

Place of Use: There are no place of use overlaps for Water Right Permit No. 67-14423.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.40	&/or	N/A
Beneficial Use Limit	0.10	&/or	N/A
System Measurement	0.10(theoretical)	&/or	N/A
Proof Fee Amount	0.40	&/or	N/A
Recommended Amount	0.10	&/or	N/A

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	0.100 CFS	20.0 AFA
<u>Totals:</u>		0.100 CFS	20.0 AFA

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

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

I. AUTHENTICATION

Field Examiner's Name *Rick Collingwood* Date 2/25/14

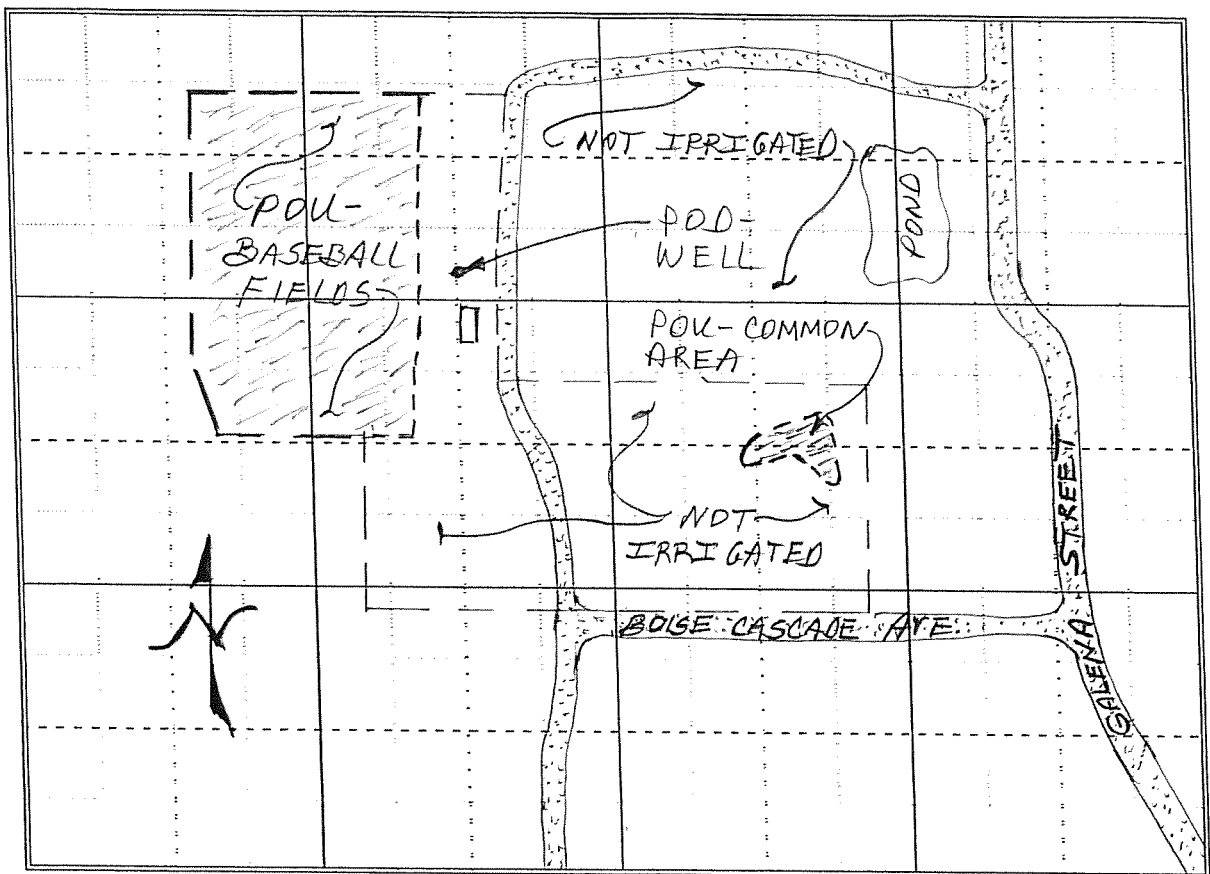
Reviewer _____ Date _____

67-14423

ESRI AERIAL PHOTO - 2012



3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only			
Well ID No.	806824		
Inspected by			
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat:	:	Long:	:

1. WELL TAG NO. D 00 30524
 DRILLING PERMIT NO. _____
 Water Right or Injection Well No. 67-14473 / 879189-206824

2. OWNER:
 Name ADAMS Co. Recreation District
 Address P.O. Box 401
 City Council ID State ID Zip 83612

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 16 North ☒ or South ☐
 Rge. 1 East ☐ or West ☒
 Sec. 10 1/4 SW 1/4 SE 1/4
 Gov't Lot _____
 County ADAMS

Lat: : : Long: : :
 Address of Well Site 400 GALENA
 City Council

(Give at least name of road + Distance to Road or Landmark)
 Lt. _____ Blk. _____ Sub. Name _____

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 Material	From	To	Weight / Volume	Seal Placement Method
Bentonite	0	31	650#	Top Pack

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 31 ft.

Was drive shoe seal tested? ☒ Y ☐ N How? Air Pressure

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	+2	-31	250	STEEL	☒	☐	☒	☐
6"	-10	-350	160	PVC	☐	☒	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method SAW

Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
-290	-350	1/16" x 3/32"	300	6"	PVC	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

45 ft. below ground Artesian pressure _____ lb.

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

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
40			1.25

Water Temp. 56° Bottom hole temp. _____

Water Quality test or comments: Good

Depth first Water Encounter 225'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12	0	3	Overburden		☒
12	3	29	Brown Clay		☒
12	29	31	Gray BSLT		☒
8	31	55	" "		☒
8	55	65	Red whtd BSLT		☒
8	65	110	Med Hd BSLT		☒
8	110	155	Red whtd BSLT		☒
8	155	225	Med Hd BSLT		☒
8	225	266	Red whtd BSLT	30	
8	266	313	Med Hd BSLT		☒
8	313	352	Red whtd BSLT	10	
8	352	355	Med Hd BSLT		☒

RECEIVED

OCT 06 2003

WATER RESOURCES
WESTERN REGION

SCANNED

OCT 07 2003

RECEIVED

SEP 22 2003

WATER RESOURCES
WESTERN REGION

Completed Depth 355' (Measurable)

Date: Started 9-17-03 Completed 9-18-03

14. DRILLER'S CERTIFICATION

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

Company Name KALENKOTT Drilling Firm No. 125

Principal Driller Anna J. Klenkott Date 9-19-03

and Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

WD Tag No. DOO 30524
Drilling Permit No. _____
Water Right Permit No. _____
Injection Permit No. _____

RECEIVED

State of Idaho
Department of Water Resources

67-14423
879189-806824

SEP 12 2003

APPLICATION FOR DRILLING PERMIT
(FOR THE CONSTRUCTION OF A WELL)

WATER RESOURCES
WESTERN REGION

1. Applicant (property owner): ADAMS County RECREATION DISTRICT
(PLEASE PRINT)

2. Mailing Address: P.O. Box 401, COUNCIL, IDAHO 83612

City & State COUNCIL, IDAHO Zip Code 83612 Telephone (208) 253-4772

☒ Well Owner ☐ Well Operator ☐ Contractor or Other, specify: _____

3. Proposed Well Location: Twp. 16 N, Rge. 1 W, Sec. 10, SW 1/4 SE 1/4 _____ 1/4;

Gov't Lot No. _____ County _____ Lat. _____:_____:_____ Long. _____:_____:_____

Street Address of Well Site 400 GALENA

Give at least name of road + distance to road or landmark

Lot, block and subdivision _____

4. Proposed Use of Well:

- ☐ DOMESTIC: The use of water for homes, organization camps, public campgrounds, livestock (1,000 head or less) and for any other purpose in connection therewith, including irrigation of up to 1/2 acre of land, if the total use is not in excess of 13,000 gpd; or any other uses, if the total use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

Domestic does not include water for multiple ownership subdivision, mobile home parks, commercial or business establishments, unless the use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

NON-DOMESTIC: ☒ Irrigation ☐ Municipal ☐ Industrial
☐ Stock ☐ Test ☐ Other _____
(Over 1,000 head) (Describe)

☐ INJECTION

☐ MONITORING: A well bore schematic and map is required for each blanket permit.
No. of proposed wells: _____

5. Well Construction Information:

A. ☒ New well ☐ Modify ☐ Replace
B. Proposed Casing Diameter 8 inch Proposed Maximum Depth 300' ?

C. Anticipated bottom hole temperature:

☒ 85°F or less ☐ 85°F to 212°F ☐ 212°F or more
(Cold Water Well) (Low Temp. Geo. Well) (Geothermal Well)

6. Construction Start Date: 9-12-03

7. Anticipated Well Driller (Firm): WHLENKOTT WELL DRILLING Driller's Lic. No. 125

NOTE: The actual well drilling firm must be identified prior to drilling.

8. Applicant's Signature: Tim J. Lebedeff Date 9-10-03

Title OWNER
(Applicant, Firm Representative, Driller, Other)

MICROFILMED

NOV 26 2003

ACTION OF THE DEPARTMENT OF WATER RESOURCES

This Permit is Approved Date 9-15-03

If approved, this permit authorizes the construction or modification of a well subject to the following conditions.
READ CAREFULLY!

GENERAL CONDITIONS:

1. This drilling permit is valid for two (2) months from the above approval date for the start of construction and is valid for one (1) year from the approval date for completion of the well unless an extension has been granted.
2. This permit does not constitute an approval of the District Health Department or the Idaho Department of Health and Welfare which may be required before construction of this well. All wells must be drilled a minimum distance of 100 feet from a drain field. Domestic and Public Water Supply wells must be drilled a minimum of 50 feet and 100 feet respectively from a septic tank.
3. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit at the drilling site.
4. Approval of this drilling permit does not authorize trespass on the land of another party.
5. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.
6. This drilling permit does not represent a right to divert and use the water of the State of Idaho.
7. If a bottom hole temperature of 85° or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.

SPECIFIC CONDITIONS:

Applicant has requested processing of this drilling permit prior to issuance of the appurtenant water right permit. The applicant assumes the responsibility of proper plugging and abandonment of this well if the water right is not approved.


 Signature of Authorized Department Representative

Sr WR Agent
 Title

Receipt No. W030923 Received by KG Fee \$ 200.00 Date 9/12/03

EXTENSION OF DRILLING PERMIT

Extension approved by _____ Approval Date _____

This extension expires: _____

MICROFILMED

NOV 26 2003

FIELD EXAM PHOTOS

Water Right Permit: 67-14423
PLS: SW1/4, SE1/4 Section 10, T.16N, R.01W
Field Examiner: RC

Field Exam Date: 9-24-13



Point of Diversion: View southwesterly of the ground water well used to irrigate two (2) baseball fields and an open space area.



Place of Use: View northwesterly of the northerly baseball field irrigated from the ground water well. The pressurized irrigation system is comprised of Rainbird Falcon rotor sprinklers.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

April 16, 2013

County of Adams Recreation District
P.O. Box 401
Council, ID 83612

RE: Scheduling Field Exam for Water Right Permit No. 67-14423

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of April 29, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.40 cfs of ground water for irrigation of 20.0 acres.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by April 26, 2013, to conduct the exam during the week of April 29, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

Rick Collingwood, P.E.
Water Resource Agent, Sr.