

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-22201

Exam Date: 9/13/2012

1. Current Owner: SPARR MC KNIGHT
145 N HWY 75
SHOSHONE ID 83352
(208)544-2045
2. Accompanied by: Benny Walker/ Cherie Palmer (IDWR staff)

3. **SOURCE**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: AFRD #2
2. Other water rights with the same point of diversion: None

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

GROUND WATER

SW1/4SE1/4

Sec. 26, Twp 05S, Rge 17E, B.M.

LINCOLN County

Method of Determination: Spatial Data from GPS point taken by staff on 4/13/2007.

2.

PLACE OF USE: DOMESTIC

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>	
05S	17E	26															X		

Method of Determination: 2009 aerial photography and taxlot information.

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.

Well or Diversion**ID No.*****Hp**

D0043319

2.5

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

D. FLOW MEASUREMENTS

1.

Measurement**Equipment****Type****Make****Model No.****Serial No.****Size****Calib. Date****2. Measurements:**

A measurement is not required for domestic use if diversion rate does not exceed 0.24 cfs according to new Beneficial Use Examination Rules.

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method:

Theoretical yield:

$$Q = \frac{8.8 \times (Hp) \times (Eff)}{H}$$

Where: Hp = 2.5 Hp

Eff = 70% (assumed)

H = depth to water 280 ft. + 2.31 x operating pressure 45 PSI

H = 280.0 feet + (2.31 x 45 psi) = 383.95

$$Q = \frac{8.8 \times (2.5) \times (0.70)}{232.5}$$

Q= 0.04 cfs

Recommended theoretical rate of 0.04 cfs**F. VOLUME CALCULATIONS****1. Volume Calculations for Irrigation:**

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

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

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

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

Application for permit 37-22201 was filed on July 6, 2007 for the diversion of 0.20 cfs of groundwater for domestic use associated with 22 businesses within the Lava Rock West Industrial Park. Permit 37-22201 was issued on November 8, 2007. Note that a condition was placed on the permit limiting each business to 0.04 cfs and 2,500 gallons per day. Proof of Beneficial Use was filed on October 14, 2009. Note that the proof of beneficial use indicates that the development consists of "one building (1) bathroom".

Several unsuccessful attempts were made to contact the permit holder. However, Cherie Palmer (IDWR Sr. Agent at State Office) indicated that she had communicated with Dave Wendell, contact person on proof of beneficial use form, and he indicated that the well only serves one bathroom in one building (see 10/10/2012 e-mail). A field visit of the property indicated that there is only one building on the property with no visible indication of additional water lines running on the property (no apparent additional stub ins). The county tax lot layer indicates that there is only one parcel owned by the permit holder in the tract designated as the place of use on the permit. It appears that only a single "part B" domestic use was developed, rather than the multiple "part B" domestic use(s) described on the application for permit and permit. It is recommended that only a single "part B" domestic use be licensed.

Walker Water indicated the system consists of one well and a 2.5 HP submersible pump with depth to water at 280 ft. A theoretical estimate of the well yield indicates that it can produce approximately 0.04 cfs, so it is recommended that license 37-22201 be issued for the standard IDWR flow rate of 0.04 cfs for domestic use. In order to comply with "part B" domestic use limitations, the license should be limited to 2,500 gallons per day.

Domestic use is exempt from the volume requirement according to new Beneficial Use Examination Rules.

Note that Cindy Yenter, the Water Master of 130, has requested the flag and measurement condition for Water District 130 be dropped from the license. It is recommended to not include measuring device or lockable works conditions on the license.

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>
DOMESTIC	01/01 to 12/31	0.040 CFS	
<u>Totals:</u>		0.040 CFS	

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 Sara Feeder Date 10/18/12

Reviewer [Signature] Date 10/18/12

26

SESW

SWSE

St. Hwy 15

well

one commercial building



D0043319



IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Official Use Only

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

1. WELL TAG NO. D - D0043319

DRILLING PERMIT NO. 845288

Other IDWR No. _____

2. OWNER

Name MC KNIGHT PROPERTIES LLC

Address P.O. BOX 7130

City KETCHUM State ID Zip 83340

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N
W E S
Twp. 5 ☐ North or ☒ South
Rge. 17 ☒ East or ☐ West
Sec. 26 1/4 SW 1/4 SE 1/4
Gov't Lot _____ County LINCOLN
Lat: : : Long: : :

Address of Well Site 145 HIGHWAY 75 N
City SHOSHONE

(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 ect.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gpm	Drawdown	Pumping Level	Time
UNKNOWN			

Water Temp. UNKN

Bottom hole temp. _____

Water Quality test or comments: _____

Depth first water encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
8	0	3	OVERBURDEN - DIRT			
	3	15	GRAY BASALT			
	15	28	VERY BROKEN GRAY BASALT			
	28	30	RED SAND GRANITE GRAVEL CLAY			
	30	55	BLACK BASALT W/CLAY STREAKS			
	55	57	VOID LOST CIRCULATION			
	57	80	FIRM			
	80	85	SOFT BROKEN			
	85	105	SOFT			
	105	107	FIRM			
	107	112	SOFT			
	112	120	FIRM			
	120	125	VERY SOFT			
	125	130	BURP GRAY BASALT W/CALCITE			
	130	138	FIRM			
6	138	145	RED BASALT W/ DRY WHITE CLAY			
	145	156	GRAY RED BASALT W/TALC			
	156	170	SOFT GRAY BASALT W/ BROWN CLAY			
	170	200	FIRM GRAY BASALT			
	200	207	VERY BROKEN LOST CIRC CAVING		X	
	207	210	STOPPED CAVING FIRM			
	210	220	FIRM			
	220	223	SOFT			X
	223	245	FIRM			
	245	250	VERY SOFT			
	250	290	FIRM			
	290	310	SOFT			X
(see second page)						

Completed depth 331 ft. (measurable)

Date: Started February 13, 2007

Completed February 20, 2007

13. DRILLERS CERTIFICATION

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

Company Name _____

Firm No. 15

WALKER WATER SYSTEMS

600 PIERCE ST. TWIN FALLS, ID 83301

Firm Official

Date 3/2/07

and

Driller or Operator

Date 3/2/07

(Sign once if Firm Official & Operator)

RECEIVED

MAR 20 2007

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7. SEALING PROCEDURES

Seal/Filter Pack			Amount	Method
Material	From	To	Sacks or Pounds	
BENT	0	140	22 SACKS	OVERBORE

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

8. CASING/LINER

Dia.	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
65/8	+2	138	250	STEEL	☒	☐	☒	☐
59/16	-140	358	188	STEEL	☐	☒	☒	☐
					☐	☐	☐	☐

Length of Headpipe _____

Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Methods TORCH

Screens _____ Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
280	356	1/8	± 100	5	STEEL	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

_____ ft below ground

Artesian pressure _____

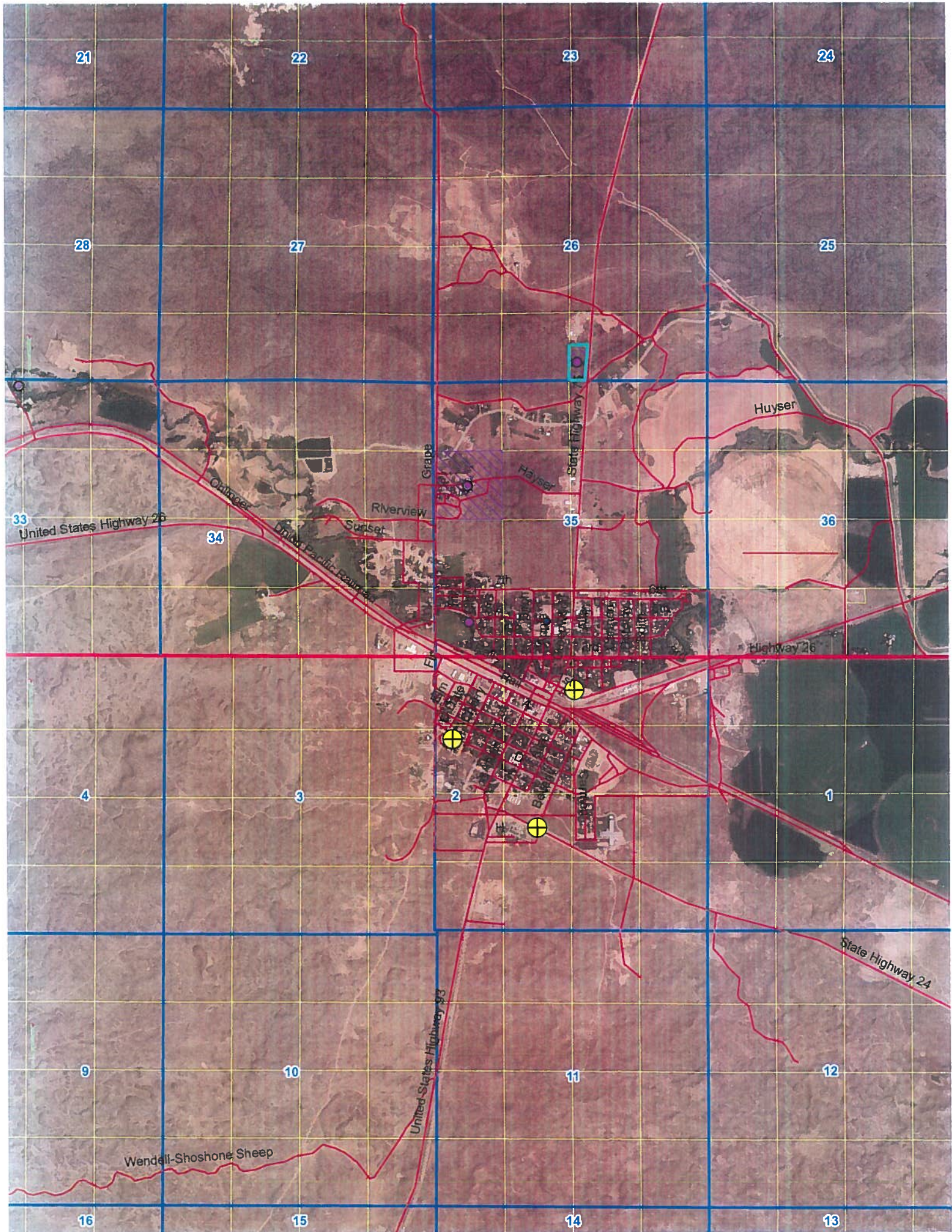
depth flow encountered 200 ft.

Describe access port _____

or control devices WELL CAP

Water

DEPT. OF WATER RESOURCES
SOUTHERN REGION



Reeder, Jana

To: Palmer, Cherie
Subject: RE: Sparr Mc Knight

From: Palmer, Cherie
Sent: Wednesday, October 10, 2012 10:13 AM
To: Reeder, Jana
Subject: RE: Sparr Mc Knight

Hello,

Dave told me that the only water use from that well is for one bathroom in the building (toilet and sink). Unfortunately, that's the only information I got from him but I hope it helps.

Cherie

From: Reeder, Jana
Sent: Tuesday, October 09, 2012 1:23 PM
To: Palmer, Cherie
Subject: Sparr Mc Knight

Hey Cherie,

I haven't had any luck contacting Dave Wendell.. he didn't happen to mention how many lines were stubbed in for the Industrial Park?

Jana

10/9/12

Walker Water System 733-4744

2.5 HP

280' depth to Pump

$$\frac{2.5 \times .7 \times 8.8}{280 + (45 \times 2.31)} = \frac{15.4}{383.95} \approx 0.04 \text{ cfs or } 18 \text{ gpm}$$

POD

* Drop SW 10-acre tract 5S17E26 SWSE
No Amendment

* Drop 130 Flag Per Water Master

Cheri Palmer email

"one building one bathroom"