

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31308

Exam Date: 8/12/2015

1. Current Owner: ANCHOR DEVELOPMENT LLC
C/O PHIL SMITH
5017 JOE LN
NAMPA ID 83687
(208)461-6057

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:

63-32835 is a permit for the City of Nampa that overlaps this POU. The POU falls within the City of Nampa Municipal area for numerous water rights. This permit also falls within the POU for the Nampa & Meridian Irrigation District. There are several rights are within the 1/41/4. However, they do not overlap this permit. (see attached)

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 L3 NW1/4SW1/4 Sec. 19, Twp 03N, Rge 01W, B.M. CANYON County

Method of Determination: Field exam and GPS

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	01W	19											X						
													L 3						

Method of Determination:

3. X Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

X 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).

X Photo of Diversion and System Attached

4.

Well or Diversion

ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0079590	Unk	3	Unk	Unk	2"

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

D. FLOW MEASUREMENTS

1. Sprinkler test and theoretical calculation

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

According to administrator memo #22, the domestic rate of diversion recommended by the Department of Water Resources should normally be 0.08 cfs for 3 houses served for in-house use only.

The sprinklers were running at 83 N Pier Point Ln. I gaged 18 PSI at the K3 Series Pro plus sprinkler according to the manufacturers literature this was pumping about 1.25 GPM per sprinkler. The station observed was running three sprinklers. $1.25 \times 3 = 3.75 \text{ GPM} \times 0.00223 = 0.008 \text{ CFS}$. The proof of beneficial use states that the diversion rate was 0.12 CFS. The sprinklers measured showed a pressure of 18 psi. However, they were the closest sprinklers to the well. The theoretical shows that a 3 HP pump could produce 0.12 cfs at 10 psi. Since the pressure will only decrease as you move further away from the well, I will recommend this license for 0.12 CFS if irrigation is allowed.

F. VOLUME CALCULATIONS

1. According to administrator memo #22, domestic use with irrigation separated is authorized a volume of 0.6 afa. This is for three $\frac{1}{2}$ acre lots. $0.6 \times 3 = 1.8 \text{ af}$. However, this right has a condition limiting the right to 13,000 gals a day per home. Therefore, I will not recommend a volume on this right.
2. Volume Calculations for Other Uses: NA

G. NARRATIVE/REMARKS/COMMENTS

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

This permit has a well located on the Southern property line of 87 N Pier Point Lane Nampa, Id. The well head is located behind the well house that houses the pressure tank. I conducted a field exam with Dan Nelson of this permit on 8/12/2015. The water is pumped from a well via a 3hp pump with 60 psi at the expansion tank. It is then piped to the homes and into an irrigation system for the three lots. They had irrigated 0.9 acres as determined from the 2013 imagery. Ron Boschma told us that none of the property owners used the surface water irrigation because the property's surface water ditch was buried by the developer without access being left to the homeowners. The owner of 77 N. Pier Point Ln. had opted out of their surface water shares. Therefore the following conditions of the permit were not met.

The right holder shall use the full allotment of appurtenant surface water rights in conjunction with groundwater diverted for irrigation purposes under this right and shall only divert groundwater under this right for irrigation purposes when water from the appurtenant surface water rights cannot be delivered to the right holder.

If the surface water right(s) appurtenant to the place of use is sold, transferred, leased or used on any other place of use, this right to divert groundwater shall not be used for irrigation purposes without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.

I discussed this issue with Shelley Keen and Cherie Palmer to determine if the permit could be licensed with the irrigation included. We concluded that this permit must be licensed as indoor use only

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	0.08 CFS	
	<u>Totals:</u>	0.08 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 Clay Webster Date 8/15/2015
Reviewer _____ Date _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

6

Water Right No.: 63-31308
 Examiner: ClayWebster
 Date of Field Exam: 8/12/2015

	Option 1	OPTION 2	OPTION 3	
P/D No.:				
PUMP HORSEPOWER	3	3	3	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	128	128	128	
DISCHARGE PRESSURE	5	10	18	
FRICTION	0	8	8	
				AVE
RATE OF FLOW (cfs)	0.13	0.12	0.10	0.12
(gpm)	59.4	52.1	46.7	52.8

The above calculates the formula =

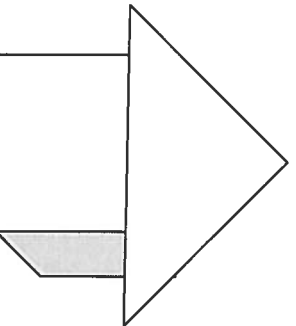
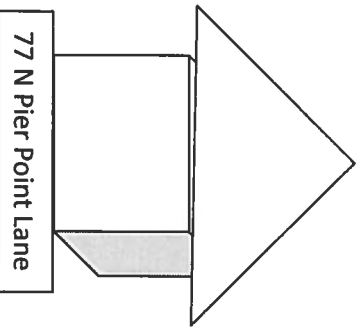
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.

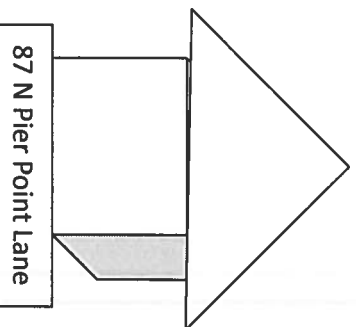
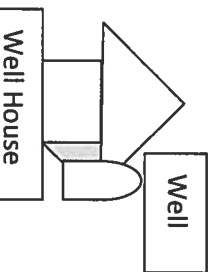
Examiners Notes:

The proof of beneficial use states that the diversion rate was 0.12 CFS. The theoretical shows that a 3 HP pump could produce 0.12cfs. They likely have a 3 hp pump, I will recommend this license for 0.12 CFS.

63-31308 Anchor Development



Buried lines from well to houses and to sprinkler systems



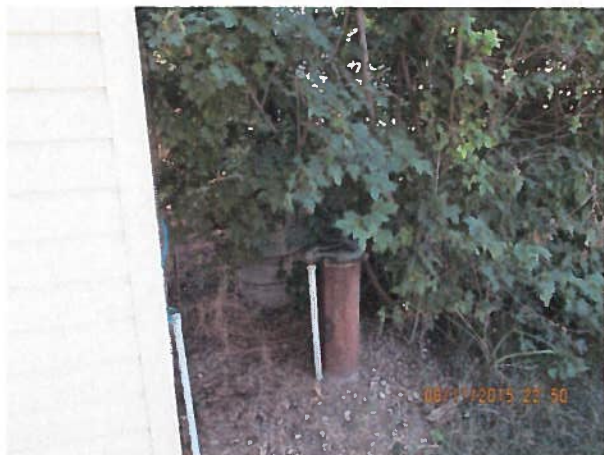
Surface water line buried across front of properties.
No access left by developer



Well Control panel



Pressure tank 60 PSI



Well head behind well house D0019590



Home 1



Home 2



Home 3



Ditch and beginning of pipe located North of property



Front of properties showing no access to buried pipe



Discharge end of buried pipe located South of property

Field Exam Map 63-31308 by Clay Webster



Overlap Analysis for Anchor Development LLC

Process		Basin Sequence	Owner	Source	POU	
Water Right	03N01W19					
Water Right	63-20746	COLLINSWORTH, MYRTLE LOIS; COLLINSWORTH, ORIAN W	GROUND WATER	POU	X	covers parcel 1R2030002000A
Water Right	63-22054	TACKETT, CHARLES R; TACKETT, JANET	GROUND WATER	POU	X	covers parcel no. 1R21635-000 property also known as e 182' of w 396' of Blk 1, Eagle Heights 1st Subdivision.
Water Right	63-23597	HILL, SANDRA J; HILL, VICTOR H	GROUND WATER	POU	X	covers parcel no. 1R21653-000 property also known as w 1/2 Blk 6, Eagle Heights 1st Subdivision.
Water Right	63-23638	MURRAY, ELVA; MURRAY, KLESS	GROUND WATER	POU	X	covers parcel no. 1R21639-000.
Water Right	63-23713	PECK, JOHN D	GROUND WATER	POU	X	covers parcel no. 1R21631-000.
Water Right	63-26205	PALMER, CAROLETA O; PALMER, DENNIS C	GROUND WATER	POU	X	covers parcel no. 1R21638-000-0 also known as N 153.4' of Blk 3, Eagle Heights Subdivision #1
Water Right	63-26469	STROHL, DOROTHY M; STROHL, RONALD E	GROUND WATER	POU	X	covers parcel no. 1R21632-000-0
Water Right	63-26652	MANESS, SHELBY	GROUND WATER	POU	X	covers parcel no. 1R21652-000-0
Water Right	63-27092	HALL, BETTY C; HALL, WILLIAM F	GROUND WATER	POU	X	covers parcel no. 1R21645-000-0 also known as w 1/2 of Blk 6, Less Rd., Eagle Heights Subdivision #1
Water Right	63-27748	CANDERAN, JO ANN B; CANDERAN, RICHARD L	GROUND WATER	POU	X	covers parcel no. 1R21640-000-0
Water Right	63-28858	NUSS, HILMER; NUSS, LORNA	GROUND WATER	POU	X	covers parcel no. 8R02030001000C
Water Permit	63-31308	ANCHOR DEVELOPMENT LLC	GROUND WATER	POU	X	This permit covers parcels R2164701000, R2164701100 and R2164701200.

These rights are within the 1/4 1/4. However, they do not overlap this permit. This permit also falls within the POU for the Nampa & Meridian Irrigation District. I contacted Nampa Meridian Irrigation District 83 and 87 N Pier Point Lane has surface water shares to cover .5 acres and .49 acres of irrigation. However, 77 N Pier Point Lane does not have surface water shares. license. All of these rights fall in 03N01W19. The permit has subordination conditions which will be carried forward on the license

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

768231

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

1. WELL TAG NO. D 18218
 DRILLING PERMIT NO. _____
 Other IDWR No. _____

2. OWNER: Phil Smith
 Name _____
 Address 5005 Joe Ln.
 City Nampa State ID Zip 83685

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. <u>3</u>		North ☒ or South ☐
E		Rge. <u>1</u>		East ☐ or West ☒
S		Sec. <u>19</u>		SE ☐ 1/4 or NW ☐ 1/4
W		Gov't Lot _____		County <u>Canyon</u>
		Lat: _____		Long: _____

Address of Well Site North pin Point
Howard City Nampa
 (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/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
<u>Benomite</u>	<u>0</u>	<u>30</u>	<u>750</u>		<u>Overbore</u>

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6</u>	<u>+1</u>	<u>162</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐
<u>5</u>	<u>158</u>	<u>163</u>	<u>258</u>	<u>Steel</u>	☐	☒	☒	☐
<u>5</u>	<u>173</u>	<u>175</u>	<u>258</u>	<u>Steel</u>	☐	☒	☒	☐

Length of Headpipe 5' Length of Tailpipe 2'

9. PERFORATIONS/SCREENS

Perforations _____ Method 305 stainless
☒ Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>163</u>	<u>173</u>	<u>.020</u>		<u>5</u>	<u>S.S.</u>	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

80 ft. below ground Artesian pressure _____ lb.
 Depth flow encountered _____ ft. Describe access port or control devices: Well Seal

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
<u>100</u>			<u>1</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>3</u>	<u>Top Soil</u>		☒
	<u>3</u>	<u>6</u>	<u>Hard pan</u>		☒
<u>8 1/2</u>	<u>6</u>	<u>42</u>	<u>Lava Rock</u>		☒
<u>6</u>	<u>42</u>	<u>56</u>	<u>Red Lava Rock</u>		☒
	<u>56</u>	<u>90</u>	<u>Gravel</u>		☒
	<u>90</u>	<u>110</u>	<u>Fine Sand - clay</u>	☒	
	<u>110</u>	<u>144</u>	<u>Brown Sand</u>	☒	
	<u>144</u>	<u>146</u>	<u>Brown Sandy clay</u>	☒	
	<u>146</u>	<u>152</u>	<u>Fine Sand - clay</u>	☒	
	<u>152</u>	<u>175</u>	<u>Coarse Sand</u>	☒	
	<u>175</u>	<u>176</u>	<u>Sandy Brown clay</u>		☒

RECEIVED

JUN 15

IDAHO DEPARTMENT OF WATER RESOURCES

RECEIVED

JUN 05 2001

WATER RESOURCES
WESTERN REGION

Completed Depth 176 (Measurable)
 Date: Started 3-15-01 Completed 3-30-01

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time of drilling.

DENNIS PHIPPS WELL DRILLING, INC.
 2063 BENTLEY AVE.
 MERIDIAN, IDAHO 83642 Firm No. 332

Firm Official Dennis Phipps Date 4-30-01
 and
 Driller or Operator Mark Phipps Date 4-30-01
 (Sign once if Firm Official & Operator)