

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31687
Exam Date: 6/9/2016

1. Current Owner:
KIMBALL PROPERTIES LTD PARTNERSHIP PO BOX 8204 BOISE ID 83707-2204 (208)323-1919
2. Met With: Jeff Moore, Accompanied by: Ted Clinton of Nampa Meridian Irr. Dist., Greg Curtis of Nampa Meridian Irr. Dist, and Cole Abo Cutting Edge Irrigation Manager
Phone No: 208-323-1919 ext 5
Address: 1940 Bonito Wy, Meridian, Id, 83642
Relationship to Permit Holder: Self

3. SOURCE: GROUND WATER**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: This permit falls within the Service area of the Nampa Meridian Irrigation District and this right is supplemental to water shares from them Boise Project Board of Control and the USA acting through the Bureau of Reclamation rights also cover this POU. There is a Ground Water Domestic and Stockwater Claim 63-5077 that overlaps this right. It was claimed in 1983. There is imagery of a house in the SE corner of the SENE at R1022760022 from the 1980-1987 imagery. That house was removed by the 2004 imagery. (No well Log was found that coincides with this right.)
2. Other water rights with the same point-of-diversion: This POD has no overlaps. It does not fall within the Basin 63 areas of concern, nor the Basin 63 Restricted GW area. The well was drilled in 2003 by Stevens & Sons. Well tag is D0020524.

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

GROUND WATER SE¼NE¼ Sec. 20, Twp 03N, Rge 01E, B.M. ADA County

Method of Determination: GPS'd during field exam and verified through ArcMap

2.

PLACE OF USE: IRRIGATION

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	01E	20	7.4	0.2	0.5	7.7									0.6				16.4

Total Acres: 16.4

Method of Determination: ArcMap verified through field exam

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.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0020524	Unknown	20	Unknown	Unknown	Unknown

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
None	NA	NA	NA	NA	NA	NA

2. Measurements:

E. FLOW CALCULATIONS

Measured Method:

 x Additional Computation Sheets Attached

The wet well that they pump out of for irrigation filled within 30 seconds of the well being turned on. There was no way to get a live flow reading. $0.02 \times 16.4 = 0.33$ cfs

Theoretical shows that the system is capable of pumping 0.48 to 0.51 cfs the permit was for 0.48 cfs

Recommend 0.48 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 16.4 \times 4.5 = 73.8$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.48 \times 260 \times 1.9835 = 247.54$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 73.8 \text{ af}$$

The permit was for 27.0 af

Recommend 27.0 af**G. NARRATIVE/REMARKS/COMMENTS:**

The department received proof of beneficial use from Kimball Properties LP in July of 2013. The proof stated that they had developed 24 acres of irrigation at 0.48 cfs. I utilized ArcMap to verify the amount of acres developed. I found that 16.4 acres were developed under this permit prior to proof being submitted. The associated cfs would come to $0.48/24 \times 16.4 = 0.33$ cfs = .02 cfs per acre. The well is located on the South end of the campus at Lot 3 Block 1 of Bonito Subdivision. It uses a 20 HP pump to fill a 48"X 15' wet well that is located inside of the well house. It is pumped from the wet well via 2ea 15 HP hitachi pumps to the sprinkler lines. However, they informed us that the re-lift only uses one pump with the well water. They use both when canal water is being diverted into the system. The control of the well has been handed over to the Nampa Meridian Irrigation District. They confirmed that well system is only utilized when surface water is not available in the shoulder seasons. The developed area is a business campus with many islands around the buildings and parking areas. There is also minimal irrigation of lawns around most of the buildings. The POU on the developed property went across some ¼ ¼ lines (0.2 acres in the NWNE, 0.5 acres in the SWNE and 0.6 acres in the NESE). I received a Plat Map from the applicant that verifies that the original plat had these areas covered. The overall irrigation is less than was permitted. Mitigation condition was met per memo from Shelley Keen dated 9/25/2003. Water bearing zone (75'-350') condition was met per well log 275'.

Have conditions of permit approval been met? x Yes No**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u> <u>IRRIGATION</u>	<u>PERIOD OF USE</u> 03/01 to 11/15	<u>DIVERSION RATE</u> 0.48 CFS	<u>ANNUAL VOLUME</u> 27.0 AF
<u>Totals:</u>		0.48 CFS	27.0 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above x None

☐ 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 ☐ None

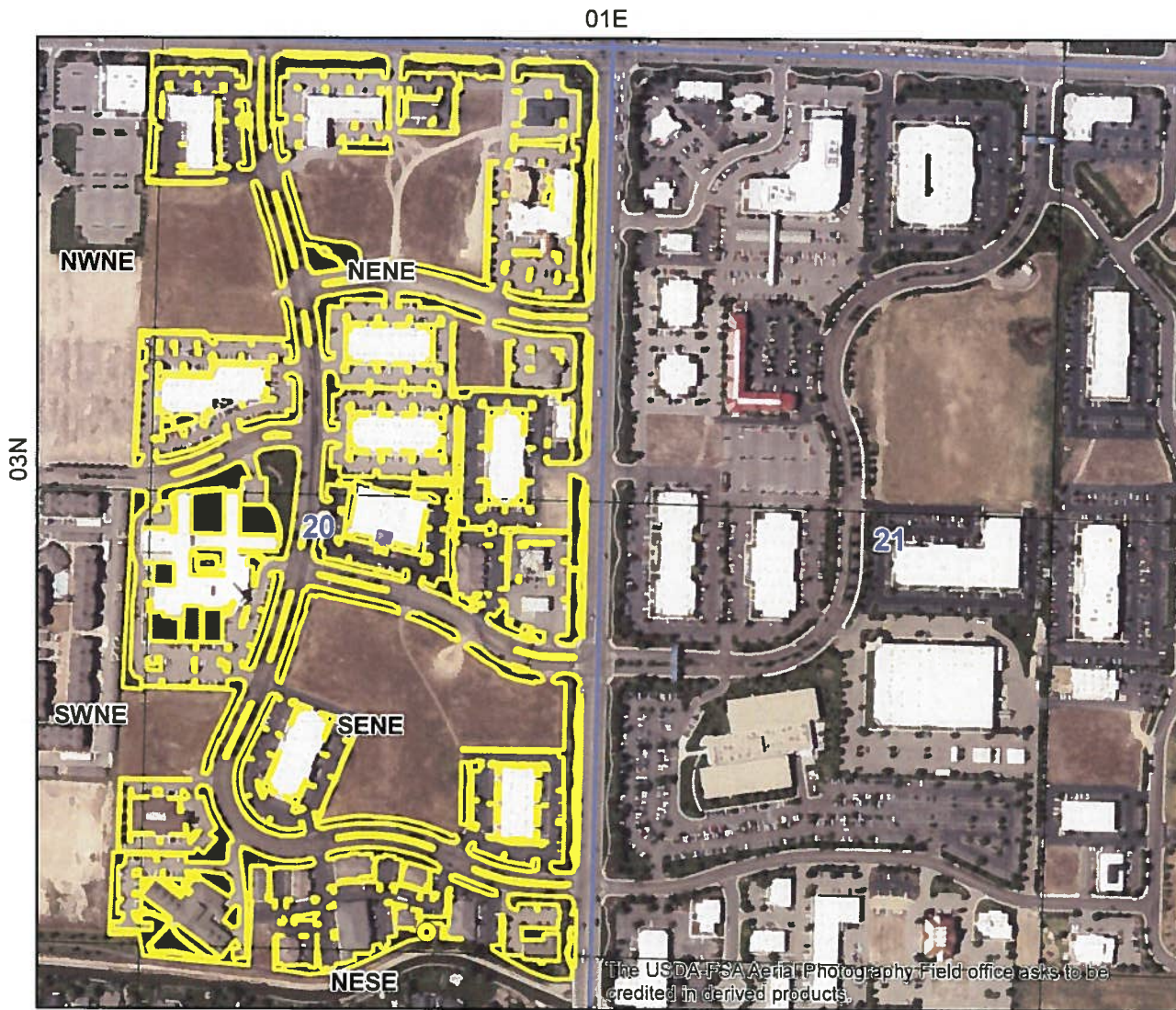
I. AUTHENTICATION: Clay Webster Water Resource Agent

Field Examiner's Name Clay Webster Date 7/29/2016

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Attachment to Field Exam
63-31687

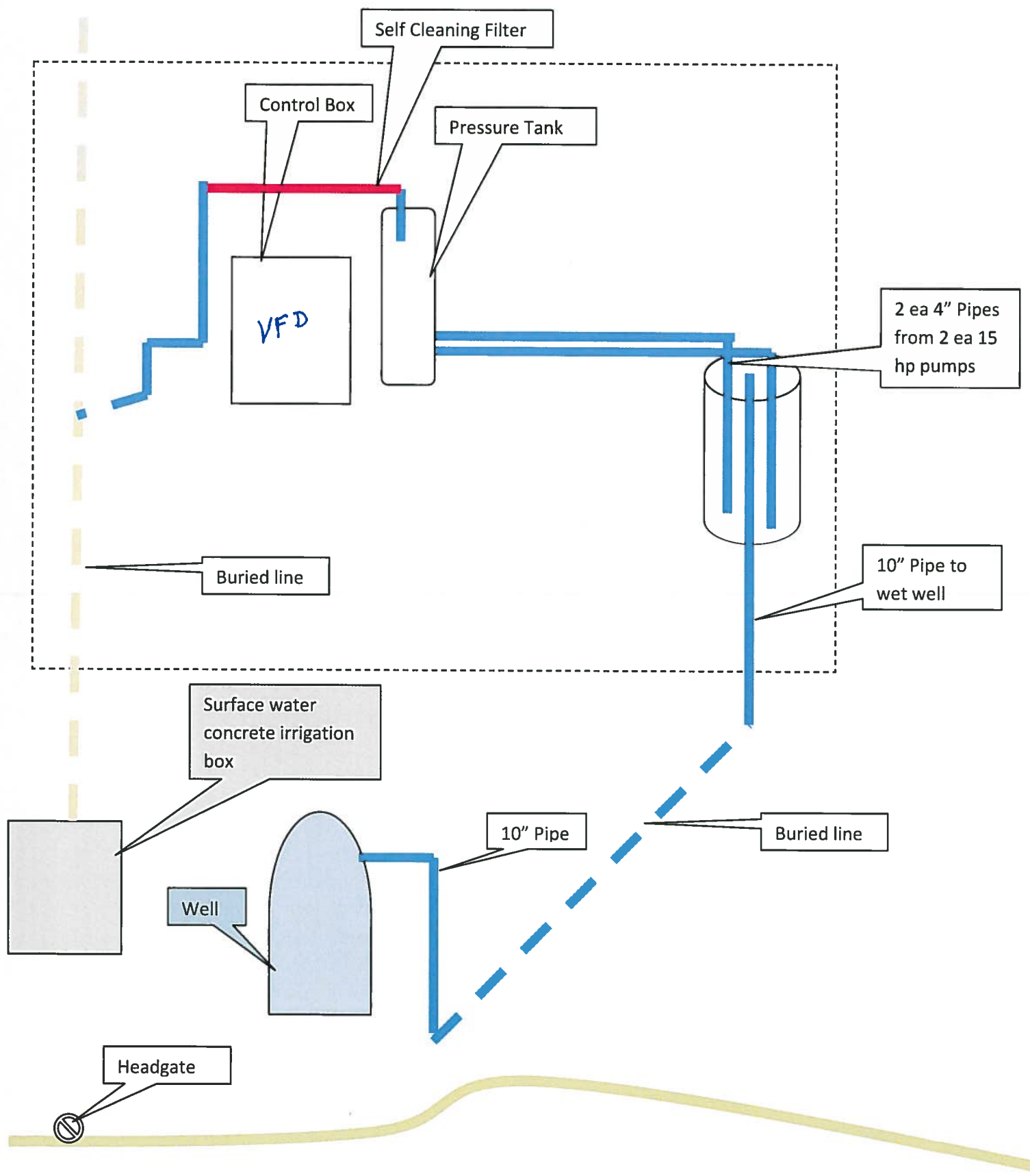
This map depicts the IRRIGATION place of use boundary for this water right at the time of this exam

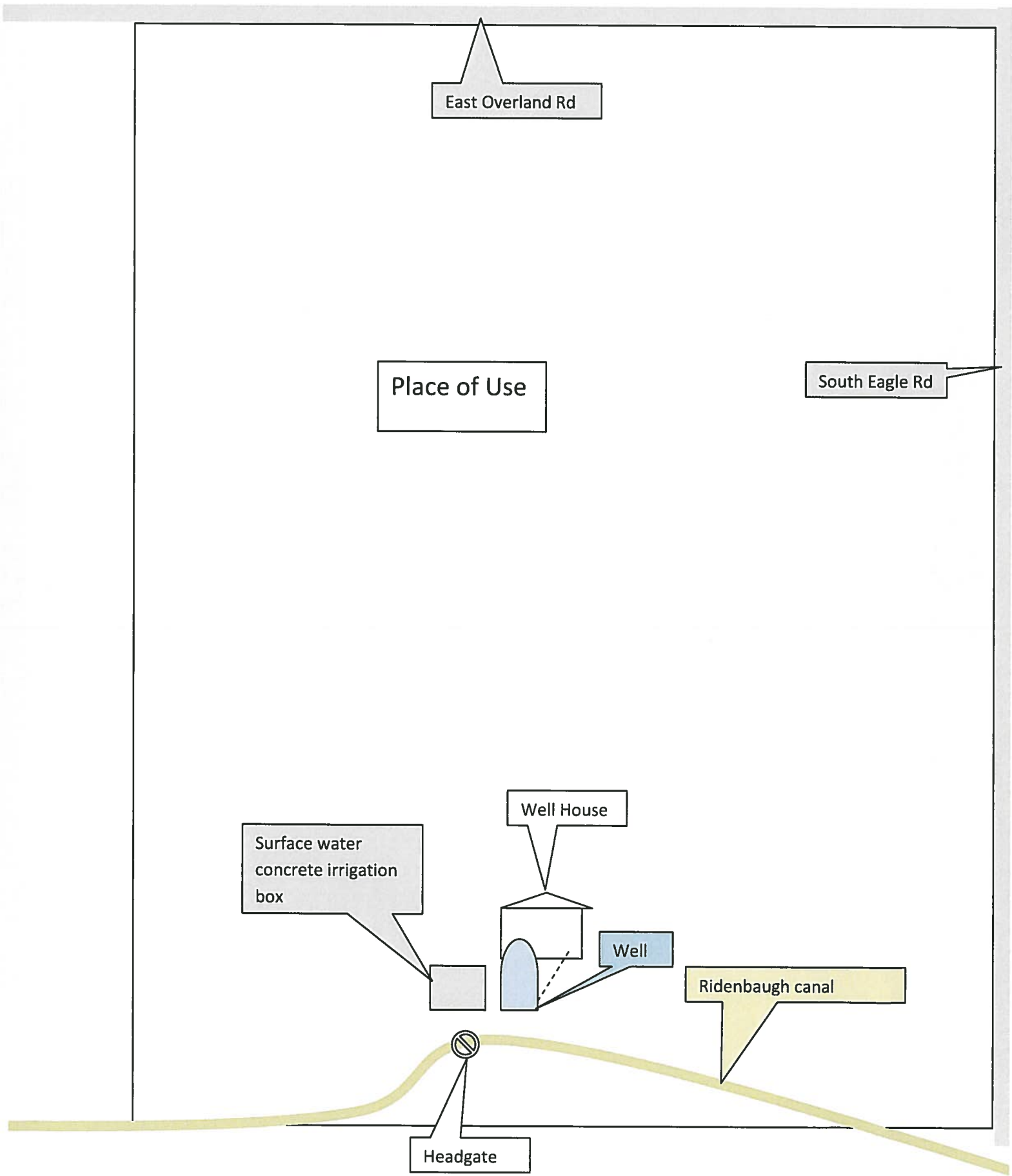


-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.05 0.1 0.2 Miles







TR5	Process	BasinSeque	Draft	Owner	Source	PODPOU	Use	NENE	NWNE	SWNE	SENE	NESE	TotalAcres
03N01E20	Water Perr	63-31687	N	KIMBALL PROPERTIES LTD PARTNERSHIP; SPF WATER ENGINEERING LLC	GROUND WATER	POU	IRRIGATION	12				12	24
03N01E20	Water Righ	63-5041	N	FARWEST LLC; MARTIN, SALLY DIANE	GROUND WATER	POU	IRRIGATION					24	92

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-31687
 Reviewer: Clay Webster
 Date of Review: 7/27/2016

P/D No.:	Senerio 1	Senerio 2	Senerio 3	
PUMP HORSEPOWER	20	20	20	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	220	230	234	
DISCHARGE PRESSURE	10	10	10	
RATE OF FLOW (cfs)	0.51	0.49	0.48	AVE
(gpm)	227.5	218.5	215.1	0.49
				220.34

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:

The system has a 20 hp pump. It pumps to a 48" X 15' wet well. No measurement was possible because wet well filled within 30 seconds of the well being kicked on. The well log documents a 4 hr test with a drawdown of 36' with a total depth of 270' 270-36 = 234. Screens are set from 220'-260'. I used 10' above these screens. Since it is a 20 hp pump I also used 20' above this level. Theoretical shows a capability of pumping from 0.48 to 0.51 cfs

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

805931

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: : : Long: : :
☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

1. WELL TAG NO. D 0020524
DRILLING PERMIT NO. 805931
Other IDWR No. _____

2. OWNER: Kimball Properties
Name _____
Address PO Box 8204
City Boise State ID Zip 83707-22-4

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
E
S
Twp. 3 North ☒ or South ☐
Rge. 1 East ☒ or West ☐
Sec. 20 1/4 S/E 1/4 N/E 1/4
Gov't Lot _____ County _____
Lat: : : Long: : :
Address of Well Site El Dorado Business
Campus _____ City Meridian
(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		
bentonite chips	0	34	3000#		poured
bentonite grout	34	202	15 sk		pumped

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
10"	+1	202	.250	steel	☒	☐	☒	☐
8"	189	220	.250	steel	☐	☒	☒	☐

Length of Headpipe 10' 3" with packer Length of Tailpipe 0

9. PERFORATIONS/SCREENS

Perforations Method _____
☒ Screens Screen Type Johnson High Flow
V wire

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
220'	260'	25		3"	stnls	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

34' ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
450	36'	70'	4 Hr

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
10	0	7	backfill		X
	7	30	cemented sand & gravel		X
	30	45	cemented sand & large gravel	X	
	45	75	sand & clay streaks, multicolored		
	75	117	sand	X	
	117	119	brown clay w/ gravel	X	
	119	125	tan clay		X
	125	140	~~sand & gravel~~ sand	X	
	140	145	1/4" gravel	X	
	162	165	sand & clay streaks		X
	165	195	sand & 1/2" gravel	X	
	195	203	tan clay		X
	203	265	sand & 1/2" gravel	X	
	265	270	tan clay		X

RECEIVED

OCT 21 2003

WATER RESOURCES
WESTERN REGION

Completed Depth 260' (Measurable)
Date: Started 8/10/03 Completed 10/2/03

13. DRILLER'S CERTIFICATION

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

Company Name Stevens & Sons Firm No. 153

Firm Official _____ Date 10/8/03

and

Driller or Operator _____

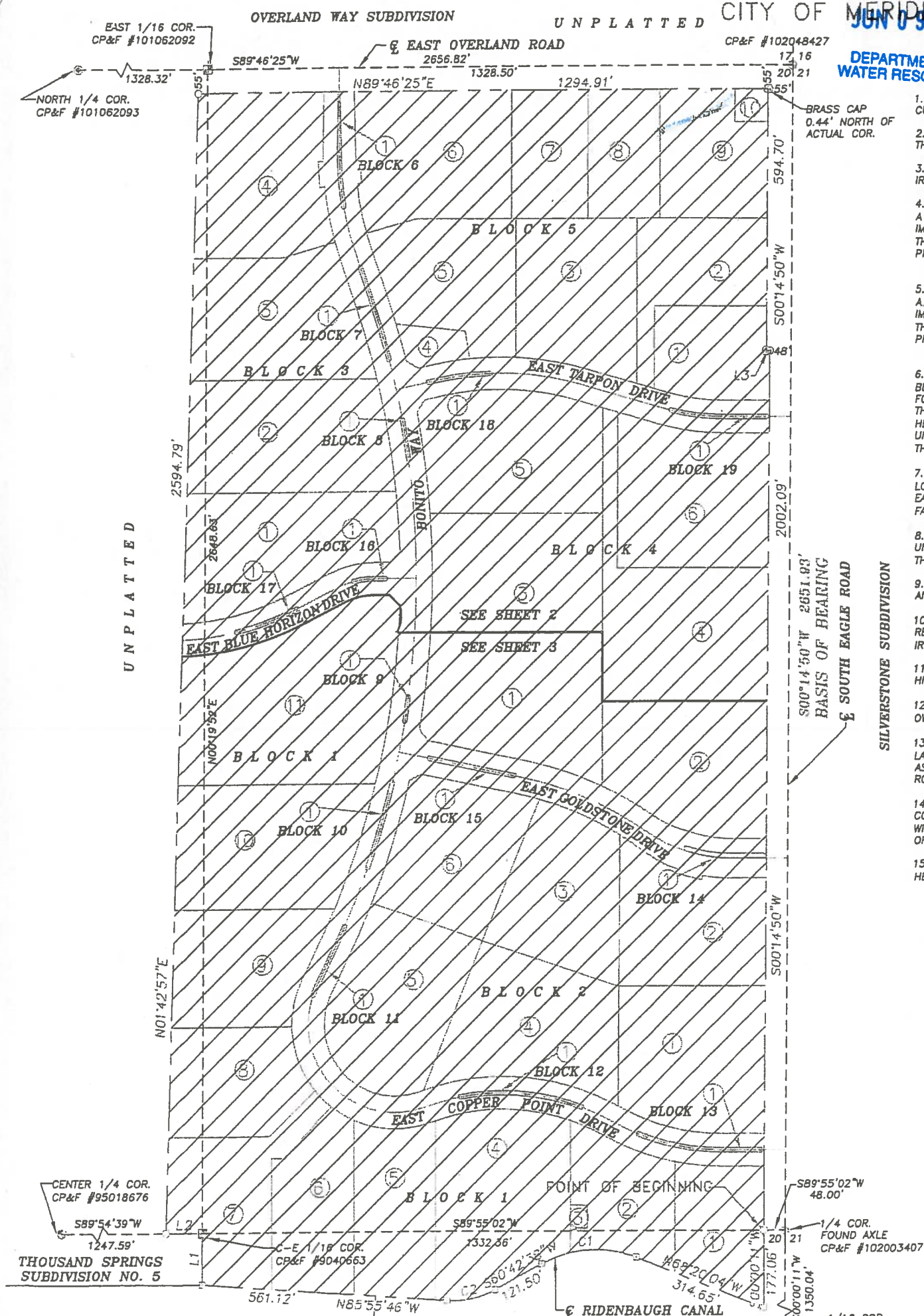
(Sign once if Firm Official & Operator)

JUN 09 2016

BRASS CAP
0.44' NORTH OF
ACTUAL COR.

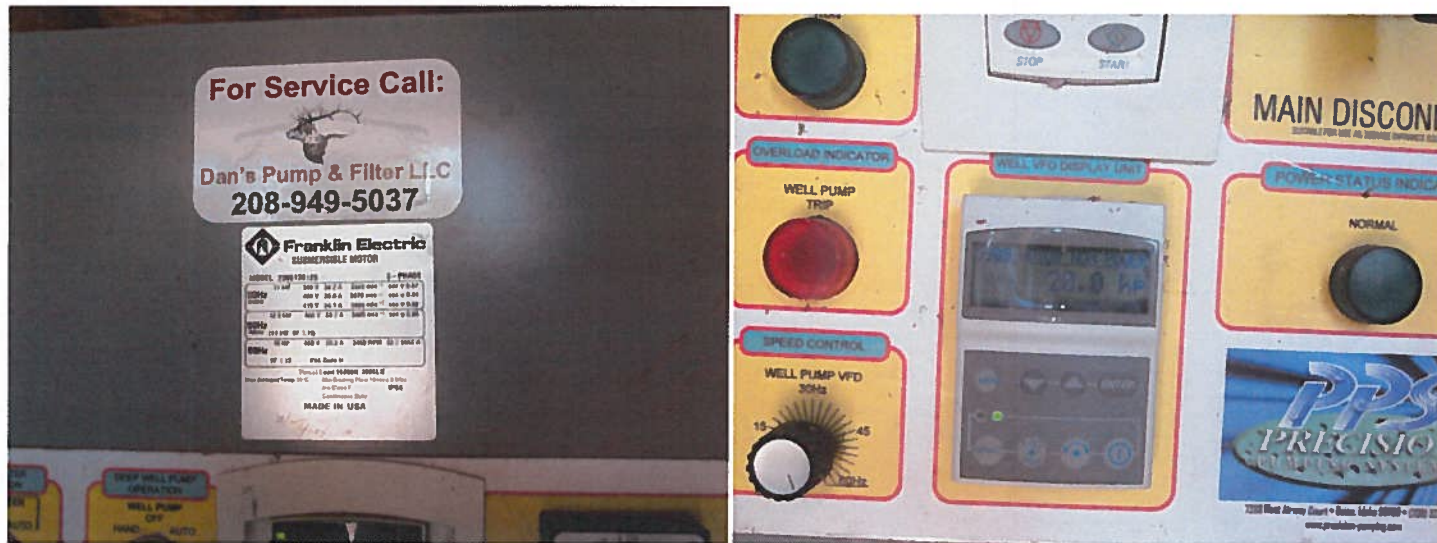
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SILVERSTONE SUBDIVISION



No. L 3526	Due no later than Oct 31, 2015 Annual Report Form		2. Registered Agent and Address (NO PO BOX)			
Return to: SECRETARY OF STATE 700 WEST JEFFERSON PO BOX 83720 BOISE, ID 83720-0080 NO FILING FEE IF RECEIVED BY DUE DATE	1. Mailing Address: Correct in this box if needed. KIMBALL PROPERTIES LIMITED PARTNERSHIP JEFF W MOORE PO BOX 8204 BOISE ID 83707 USA		JEFF W MOORE 1940 S BONITO WAY STE 160 MERIDIAN ID 83642			
			3. <u>New</u> Registered Agent Signature:*			
Office Held	Name	Street or PO Address	City	State	Country	Postal Code
GENERAL PARTNER	MARTIAL TRUST OF THE WDM TRUST	PO BOX 8204	BOISE	ID	USA	83707
5. Organized Under the Laws of: ID L 3526		6. Annual Report must be signed.* Signature: Jeff W Moore Name (type or print): Jeff W Moore Date: 10/12/2015 Title: Trustee				
Processed 10/12/2015		* Electronically provided signatures are accepted as original signatures.				

Field Exam for 63-31687

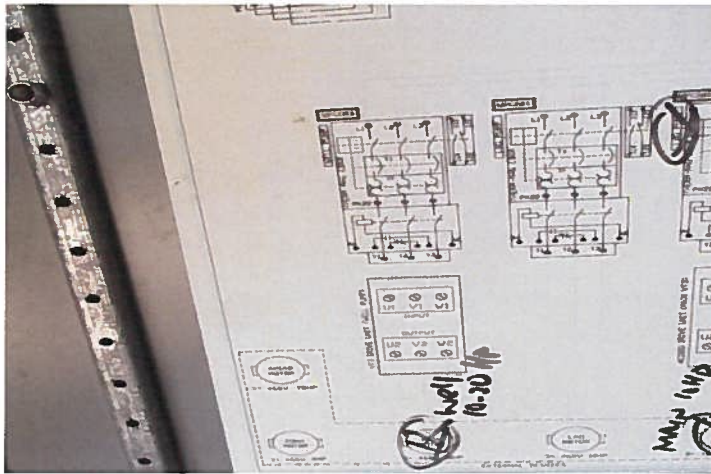


Outside of well control panel



Well control panel

Well control panel



Well control panel



Control panel with well pump running

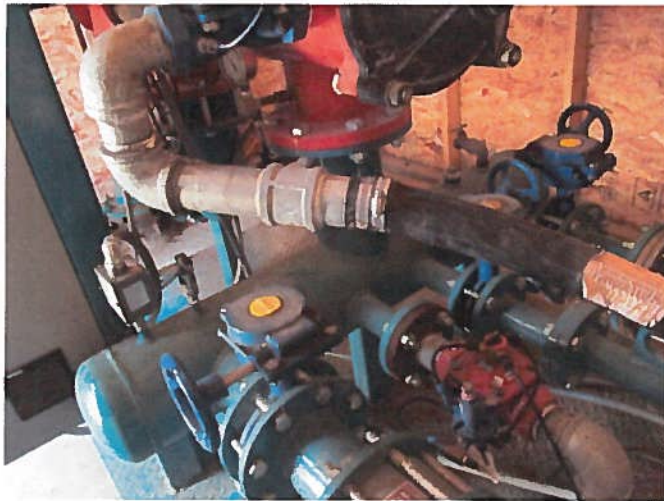


vault access



Pipe from well to vault and piping from vault to system

Field Exam for 63-31687



From Well to cistern



System pressure 50 PSI



System pressure 50 PSI



Field Exam for 63-31687



In line system pressure at 62 psi



Well Tag D0020524



Well Head



Well house



Irrigation box from canal and landscaping around buildings



Well house from canal access road



Canal headgate



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 25, 2016

KIMBALL PROPERTIES LP
PO BOX 8204
BOISE ID 83707-1919

RE: Beneficial Field Exam for Water Permit 63-31687

Dear Mr. Seel:

I have been asked to perform several field exams in your area during June 7-9, 2016. I would like to schedule a time to conduct a water right licensing examination during that time.

On Feb 10, 2003 Kimball Properties LP applied for a water permit for Irrigation use at the property located at Township 03N Range 01E section 20 (El Dorado Business Campus). The Department received proof of beneficial use in July 2013.

Please have someone that is familiar with the system and its construction available at the exam , as well as the following documentation:

- 1- Pump and motor specs
- 2- Depth of pump
- 3- Pump Curve (if available)

I appreciate your attention to this matter and I look forward to hearing from you. Please contact me within 14 days at 287-4910 to schedule an exam for this water right permit.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Clay Webster'.

Clay A. Webster
Water Resource Agent