

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-18047
Exam Date: 09/02/2015

1. Current Owner:
BOB TITSCH 9627 N EASY ST HAYDEN LAKE ID 83835
AND
KATHY TITSCH 9627 N EASY ST HAYDEN LAKE ID 83835
2. Accompanied by:
Phone No: Don Wiltsie (208) 771.1575
Address: 6147 W Harvest AVE, Rathdrum, ID 83858
Relationship to permit Holder: Foreman

3. **SOURCE:**
GROUND WATER

TRIBUTARY:

Method of Determination: ArcMap™, DRG, and Map-'Hayden' U.S. Geological Survey 7.5' Quad. (Topographic) 1991.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
95-7124	Ground Water	Irrigation	License
95-8475	Ground Water	Domestic	Decreed

Comments: No evidence was found that Water Rights 95-7124 or 95-8475 are still being used on the 95-18047 Irrigation Place of Use (POU). Application 95-9424 states the prior owner abandoned use of 95-7124. 95-7124 overlapped parent water right 95-9424.

2. Other water rights with the same point-of-diversion: NO Overlap

C. DIVERSION AND DELIVERY SYSTEM. 10" Drilled well D0054408 pumps from the Rathdrum Prairie Aquifer. The well provides water to distribution lines and irrigation equipment to irrigate 5.7 acres.

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SW¼, NW¼, Sec. 20, Twp 51N, Rge 04W, B.M., KOOTENAI County

Method of Determination: ArcMap™ Geographic Information System (GIS) software, Garmin GPS Receiver

Well D0054408 GPS Coordinates -116 Deg. 52.144 West. Longitude, 47 Deg. 45.196 North Latitude

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
51N	04W	20							5.7										5.7

Total Acres: 5.7

Method of Determination: Field Exam and ArcMap™ aerial imagery

- 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
D0054408	Franklin	10	3 phase 65 GPM. Serial # Unknown	Goulds	4 inch

D. FLOW MEASUREMENTS

1. (None: See Theoretical Measurements below.)

2. Measurements: (See Narrative Remarks/Comments below for information concerning United Crown Pump and Drilling 65 Gallon Per minute pump)

E. FLOW CALCULATIONS

Measured Method: (none)

System not suitable for physical measurement.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (5.7 \text{ Acres}) \times (3.0 \text{ AF per Acre}) = 17.1 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (CFS)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (5.7 \text{ Acres @ } .03 \text{ CFS per acre} = .11 \text{ CFS}) \times (214) \times 1.9835 = 46.69 \text{ AF} = 46.7 \text{ AF}$$

V = Smaller of V_{IR} and V_{DR} = **17.1 Acre Feet (AF) IRRIGATION**

2. Volume Calculations for Other Uses: (none)

G. NARRATIVE/REMARKS/COMMENTS

Field Exam performed on 9/02/2015 with Don Wiltsie. Mr. Wiltsie is foreman for the equine rehabilitation facility and indoor arena, owned by Bob and Kathy Titsch, served by the 95-18047 Point of Diversion (POD) well (Tag Number D0054408).

This well provides water for the 95-18047 Irrigation system.

95-18047 was split from the parent water right (95-9424) because it is not physically connected to the 95-9424 system. A follow-up field exam on 9/17/2020 confirmed that the six inch diameter well on the Titsch property (D0041314) is not connected to the 95-18047 system. The six inch diameter well is being licensed as 95-9424. Domestic and Stockwater use shown on the original 95-9424 Application and Statement of Completion are accounted for under License 95-9424.

The Exams showed Groundwater is diverted for 5.7 acres of Irrigation using permanently installed sprinklers. The sprinklers were observed in operation during the 9/02/2015 Exam. Zone control boxes, located in the indoor arena, control Irrigation. The control boxes do not measure flow rates. Water from the well head moves via separate underground lines to the outdoor arena, and fenced irrigated areas, located to the North, South, and East of the covered indoor arena building.

Photographs of the Irrigation, Stockwater, and Domestic POU's were taken during the Exams and areas of Irrigation use noted on temporary field maps and ArcMap™ images. In-office review of ArcMap™ images and the Kootenai County property tax property boundary was used after the Exam to accurately determine the Irrigation POU.

No Water Right Overlap exists. IDWR records indicate that Water Rights 95-7124 and 95-8745 overlap the 95-18047

Irrigation POU. The Point of Diversion (POD) wells for both of these Rights lie off the 95-18047 property. Mr. Wiltse indicated that no source of water located outside the Titsch property is being used. A different well on the Titsch property (D0041314), is used on-a non-overlapping Irrigation POU, for Water Right 95-9424. No evidence that 95-7124, 95-8745, or 95-9424 are currently used on the 95-18047 Irrigation POU was seen during the Exams

CFS and Maximum Diversion Volume is not restricted by well capacity. A 10.0 Horsepower submersible pump is installed in a ten inch diameter, 338' deep well completed in 2008 (D0054408) that supplies ground water. Static level at time of well completion was 265 feet below ground level. A \$125 well upgrade fee was paid (Receipt N020681) in 2009. The well and buried water line configuration do not have an installed flowmeter or exposed pipe that is suitable for portable flowmeter measurement. A theoretical calculation for well D0054408 was performed, indicating the well can supply .0.171 CFS (76.7 Gallons Per Minute), after the Field Exams. IDWR requires an Irrigation limit of .02 CFS / acre when the irrigated area exceeds 5.0 acres. **Recommended CFS for Irrigation is .11 CFS** (5.7 AC. X .02 CFS = .114 CFS = .11 CFS

The Statement of Completion (SOC) indicates seven acres are irrigated and that water is used for four horses and two domestic uses. The 95-18047 Irrigation POU was found to equal only 5.7 acres versus the 7.0 acres shown on the SOC. The remaining acres (1.3) shown on the SOC are accounted for in the Irrigation POU for License 95-9424. **Recommended Annual Volume for Irrigation is 17.1 AF** (5.7 Acres x 3.0 AF = 17.1 AF). Stockwater and Domestic use are accounted for under License 95-9424.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	03/15 to 11/15	0.11 CFS	17.1 AF

Totals: 0.11 CFS 17.1 AF

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 ✓ None

I. AUTHENTICATION Shaun Maxey - Water Resource Agent, Senior

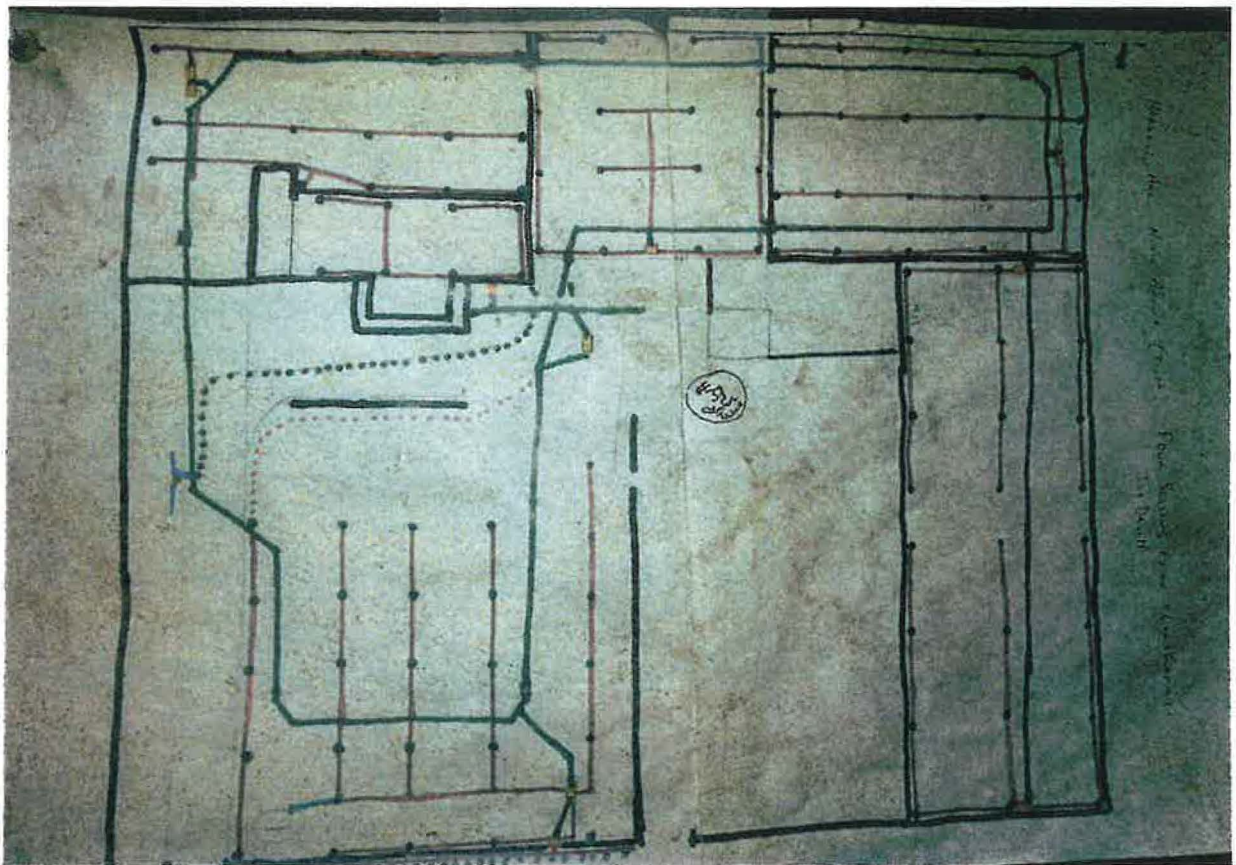
Field Examiner's Name Shaun M. Maxey Date 08/31/2021
 Reviewer Ad Smith Date 8/31/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-18047
Delievery System Diagram

Irrigation lines are buried and few surface markers exist. Distances & approximate layout of irrigation lines to sprinklers are unknown. Diagram shown on 'Irrigation Zone Sketch for Well D0054408' in Indoor Arena.

04W

51N

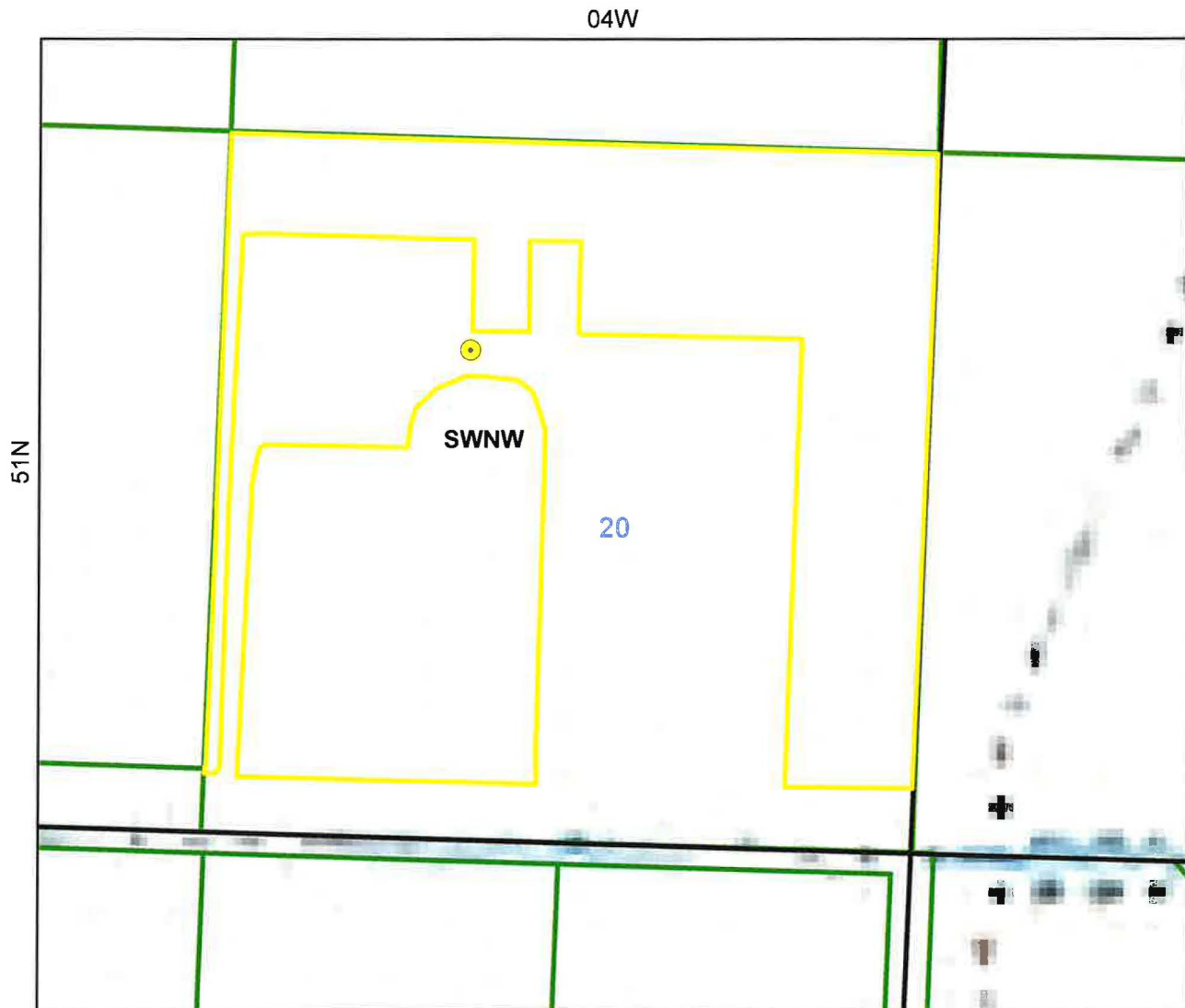


Irrigation Zone Sketch for Well D0054408



State of Idaho
Department of Water Resources
Attachment to Field Exam
95-18047

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Point of Diversion
- Place Of Use Boundary
- PLS Sections
- Quarter Quarters
- Taxlots

0 0.02 0.04 0.08 Miles

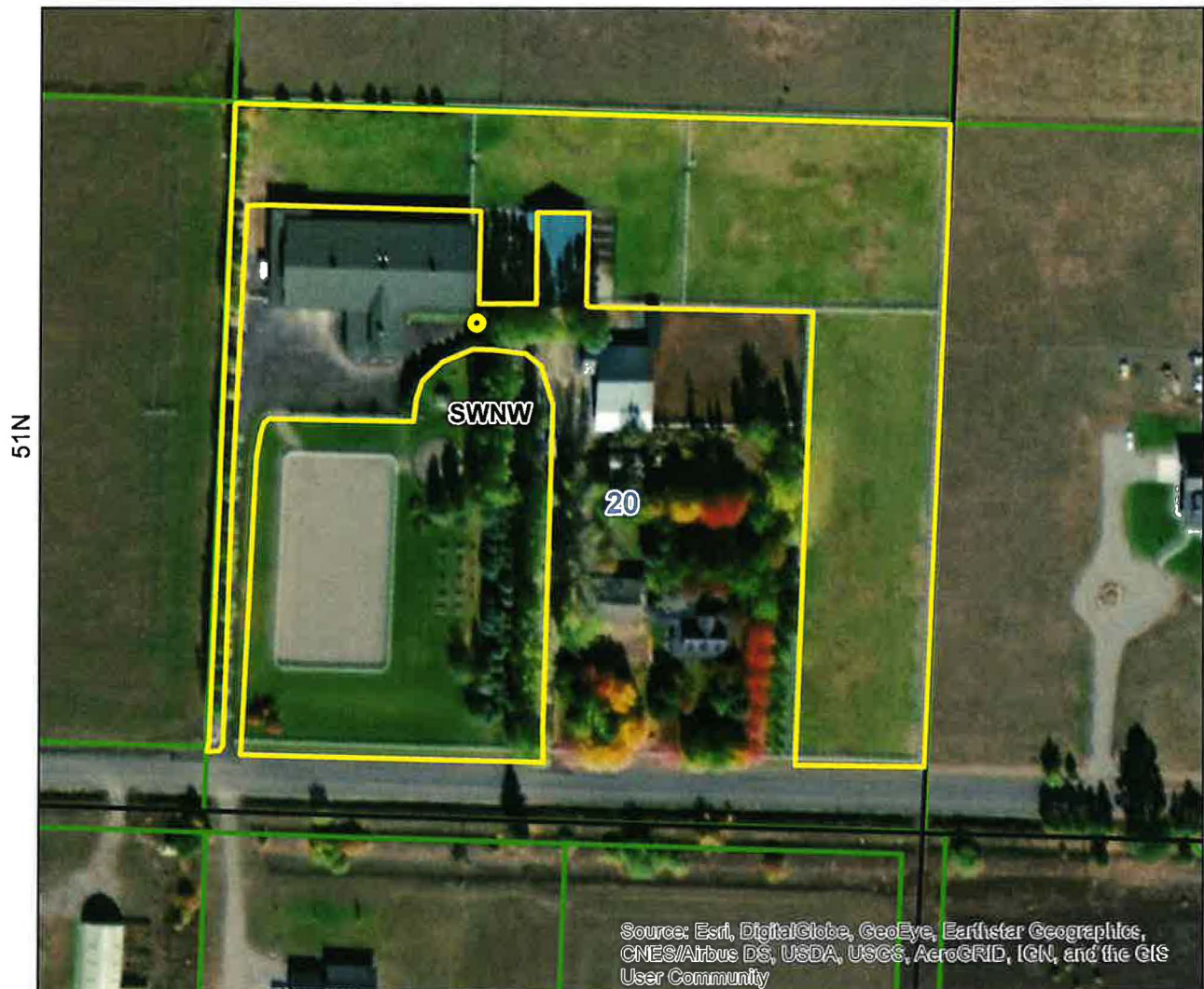


Tax parcel boundaries provided by Kootenai County.

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-18047

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

04W



-  Point of Diversion
-  Place Of Use Boundary
-  PLS Sections
-  Quarter Quarters
-  Taxlots

0 0.02 0.04 0.08 Miles



Tax parcel boundaries provided by Kootenai County.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Location Corrected by IDWR To:

T51N R04W Sec. 20 NENWSW

By: mciscell 2013-10-16

1. WELL TAG NO. D0054408

DRILLING PERMIT N

Other IDWR No

2. OWNER:

Name **Bob & Kathy Titsch**

Address 11716 N Avondale Loop

City Hayden

State ID

Zip 83835

3. LOCATION OF WELL by legal description:

N
W
E
S
Twp 51N North ☒ or South
Rge 04W East ☐ or West ☒
Sec 20 1/4 NW 1/4 SW 1/4
Gov't Lot County Kootenai
Lat Long

Address of Well Site: (see next line)

harvest and meyer rd

City post falls

Lot Blk

Sub. Name (see next line)

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/Lbs	
BENTONITE	0	25	18 SACKS	DRY POOR

Drive Shoe Used? ☒ Y ☐ N Shoe Depth(s) RING BIT

Drive Shoe Seal Tested? ☐ Y ☒ N How?

8. CASING/LINER

Diam	From	To	Gauge	Material	Casing	Liner	Weld	Thrded
8	+2	338	0.250	STEEL	☒		☒	

Length Headpipe N/A Length Tailpipe N/A

9. PERFORATIONS/SCREENS

Perforations? Method

Screens? Screen Type N/A

From	To	Slot	Nmbr	Diam	Material	Casing	Liner

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

265 ft. below ground. Artesian pressure 0 lb.

Depth flow encountered 265 ft. Describe access port or

control devices: CAP BOLTED

11. WELL TESTS

Pump

Bailer

☒ Air

Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
100 GPM ES	100%	335	2HRS

Water Temp. COLD

Bottom hole temp. COLD

Water Quality test or comments: (below) Depth first Water Encountered 265

CLEAR

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks Lithology, Water Quality and Temperature	Water	
				Y	N
12	0	20	SAND GRAVEL CLEAN		☒
10	20	120	SAND GRAVEL COBLES MIX		☒
10	120	185	SAND GRAVEL CLAY MIX		☒
10	185	240	PEA GRAVEL CLAY MIX		☒
10	240	280	PEA GRAVEL HEAVY CLAY	☒	
10	280	315	PEA GRAVEL	☒	
10	315	338	3/4 GRAVEL PEA GRAVEL MIX	☒	

RECEIVED

FEB 12 2008

IDWR/North

Completed Dept 338 (Measurable)

Date: Started 1/21/2008 Completed 2/7/2008

13. DRILLERS CERTIFICATION

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

Firm United Drilling Inc.

Firm No 414

Firm Official and

Timothy R. Volking pms.

Date 2/7/2008

Supervisor or Operator Timothy R. Volking

Date 2/7/2008

51N 4W 20



PUMP & DRILLING
3125 W. Hayden Ave. Hayden, ID 83835
Phone (208) 772-7867 Fax (208) 772-7229
Unitedcrown.com

INVOICE

Invoice Number: 7757
Date 5/31/2018
Terms: Due on Receipt

Running W Ranch LLC
Don Wiltsie
6147 W Harvest Ave
Rathdrum, ID 83858
(208) 771-1575

Service Location
Address: 6147 W Harvest Ave
City: Rathdrum
Job/Well #
Purchase Order

Page 1 of 2

5/25/18: Installed new pump with material listed below.

Quantity	Item	Unit Price	Extended Price
1.00	Franklin 10 HP 230/460 6" Motor 3ph		
1.00	4" to 6" Motor Adapter		
2.00	2" Flomatic 80DI ductile check valve (fxf)		
1.00	Motor Splice & Tape		
6.00	Hoist Truck Time-		
4.00	Elec- IT 4 Connector		
1.00	Gauge - 0-300 psi liquid filled 1/4" x 2.5" stock		
1.00	Galv. 2" x 4" nipple		
3.00	Galv. 2" x 2 1/2" nipple		
2.00	Galv. 2" plug		
1.00	Galv. 2" MI 90		
3.00	Galv. 2" tee		
1.00	Goulds 10 hp 65 GPM pump end 4"		
20.00	Round Trip Mileage Minimum Charge		
3.50	Service Tech Rich		
8.50	Service Tech Patrick		
9.00	Service Tech Nick		
1.00	Customer Discount		

Less payments received
6/1/2018 Check 1182

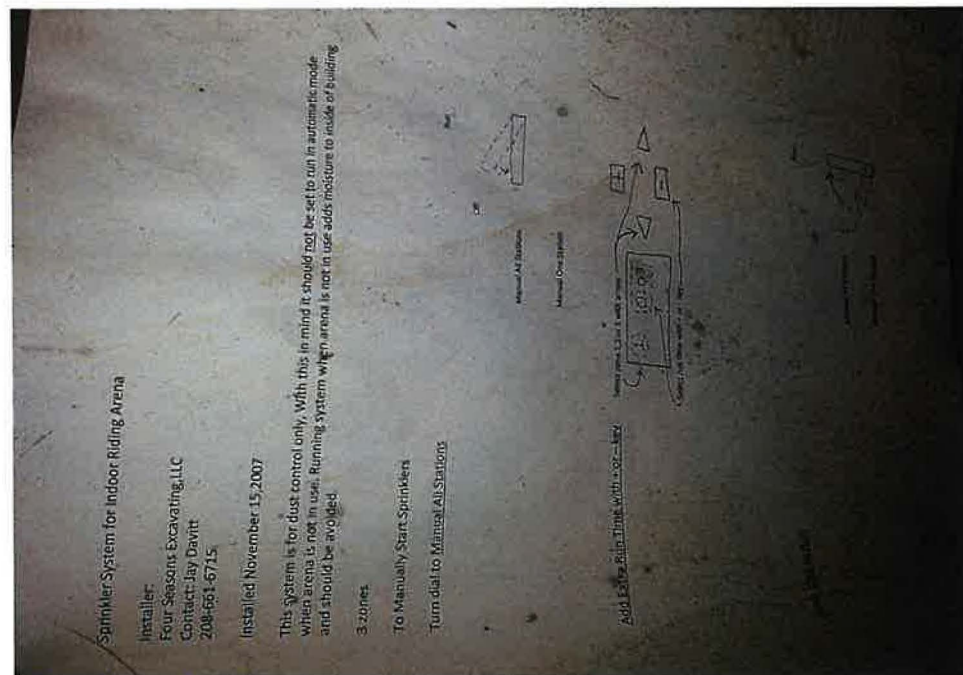
Thank you for the opportunity to work for you.

Project Manager Chris Agueros

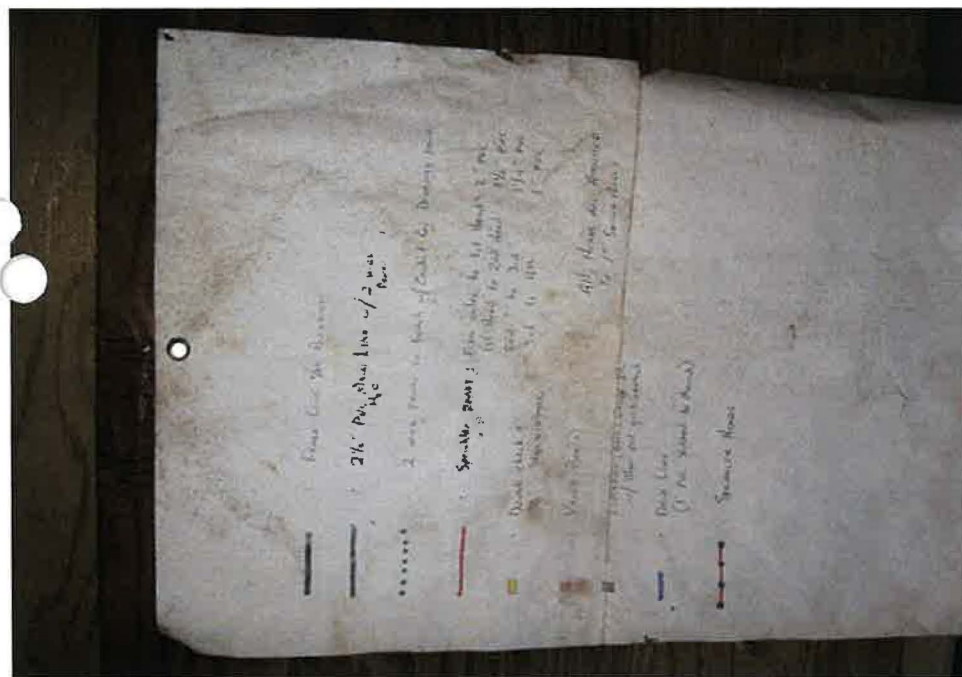
This invoice due and payable upon receipt. Invoices not paid within 10 days will accrue interest at a rate of 1.5% per month.



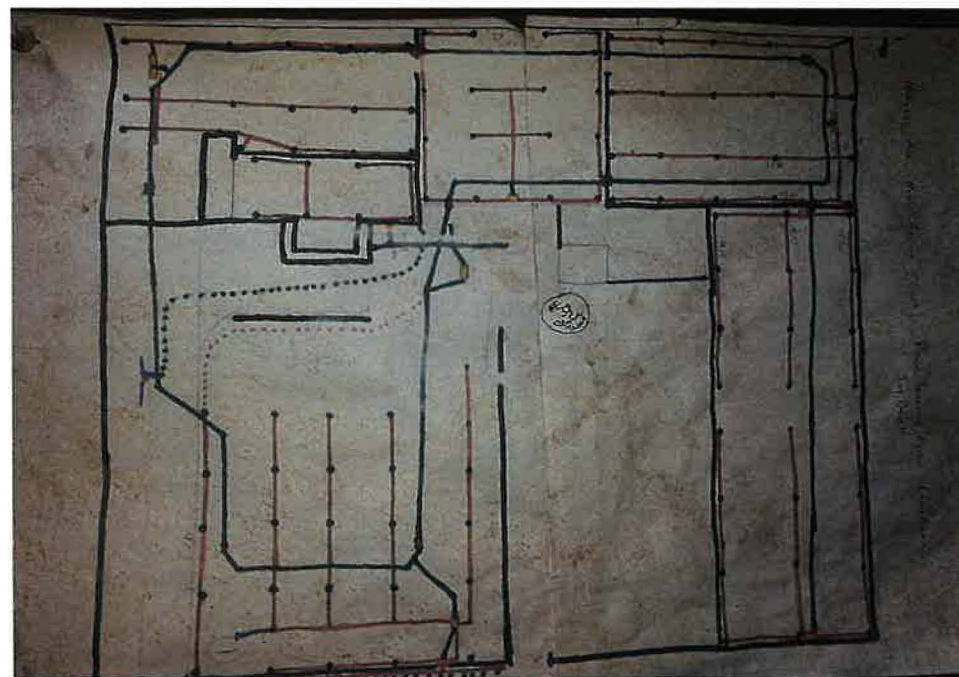
Tag on well DØØ54408 recessed below ground level



Dust control instructions inside Indoor Arena



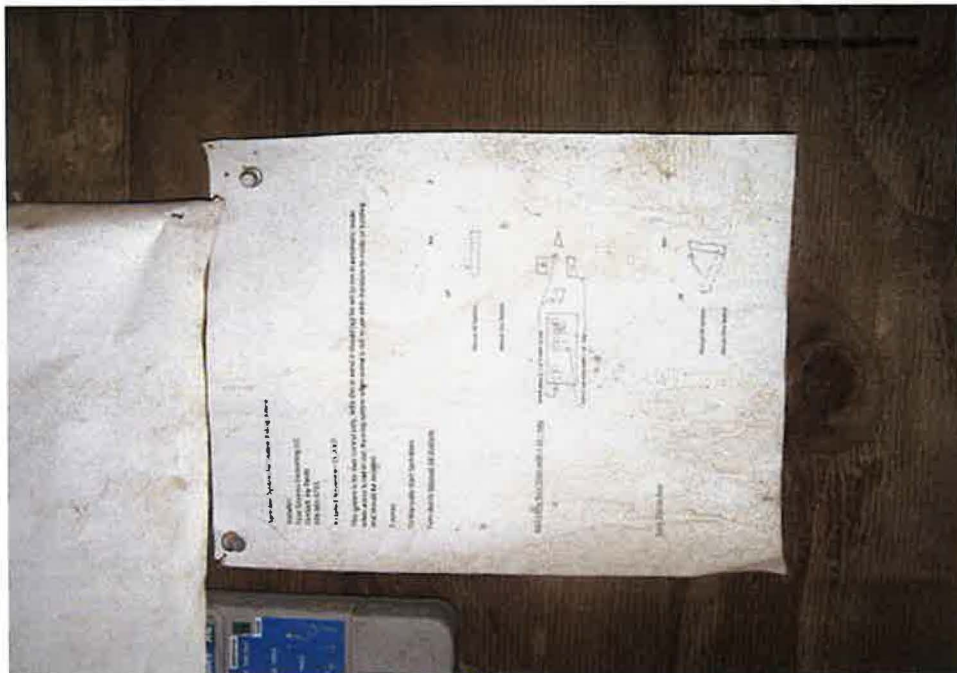
Irrigation Zone Control Diagram



Irrigation Zone SKETCH For well DØØ54408



Irrigation timer & zone controls in Indoor Arena.



Operating instructions for Irrigation (Indoor Arena)



Paddock, pasture Irrigated Area North of Indoor Arena.



Opened Irrigation Zone control box. (No real time flow rate)



Fence with operating sprinkler.



Fence corner with operating sprinkler.

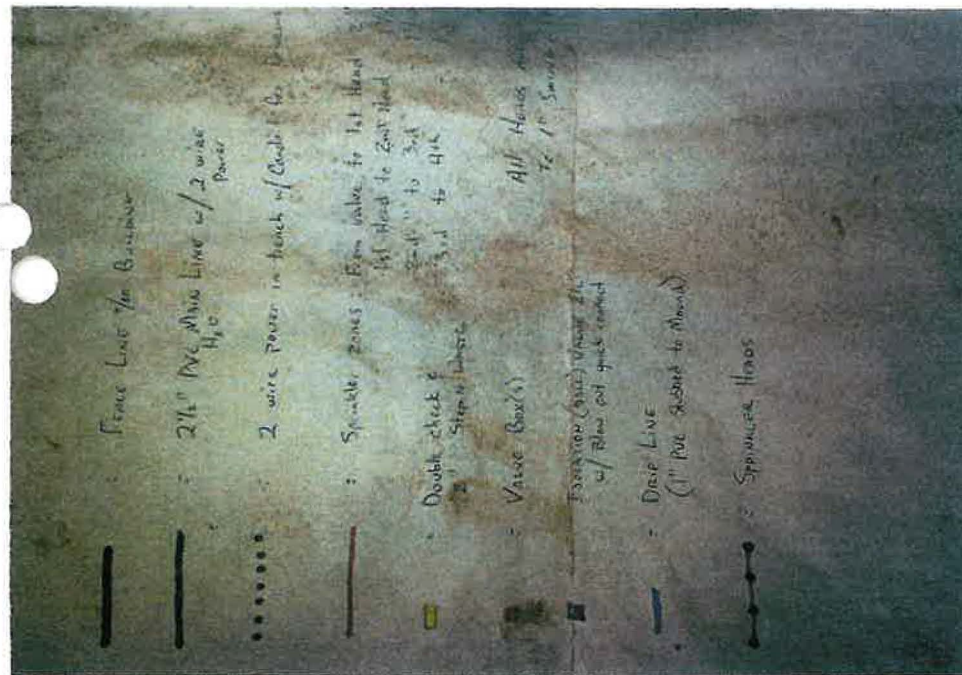


Diagram in Indoor Arena for Irrigation Zones



Fence with operating sprinkler.



sprinklers operating, Right Rear of Paddock.



Sprinkler operating in paddock, pasture.



sprinklers operating ~~in~~ Right rear of pasture.