

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12568
Exam Date: 6/9/2016

1. Current Owner:
CHRISTINE MASCHMANN 11389 REUTZEL DR BOISE ID 83709 (208)362-4576
RICHARD F MASCHMANN 11389 REUTZEL DR BOISE ID 83709 (208)362-4576

2. Accompanied by: Susan Camp and Kent McBride
Phone No: 208-340-6530 and 208-724-7257
Address: 11389 W Reutzel Dr Boise Id 83709 & 4737 E Tanoak Dr Boise Id 83716
Relationship to Permit Holder: Property Owners

3. **SOURCE:**
EIGHTMILE CREEK

TRIBUTARY:
BOISE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: This place of use falls within the boundaries of the Pioneer Dixie Ditch Co and The Nampa Meridian Irrigation District. They also fall within the United Water Idaho Inc municipal area. 63-9157 and 63-10507 are both located North of this property
2. Other water rights with the same point-of-diversion: None

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

EIGHTMILE CREEK NW¼SE¼ Sec. 27, Twp 03N, Rge 01E, B.M. ADA County

Method of Determination: GPS'd at 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	27														1.9			1.9

Total Acres: 1.9

Method of Determination: Field Exam and verified through aerial photos

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

 x 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.

 x 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
A0017536	Unknown	2	C48M2EC11C3	Unknown	1 ½ inch

*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
Pressure gage						

2. Measurements:

E. FLOW CALCULATIONS x Additional Computation Sheets Attached

Measured Method:

We attempted to get a pressure reading off of the system. The reading was for 10 PSI on a 6 sprinkler zone with 3/16 Nelson heads. When we asked the owner about the low pressure she informed us that they had a large leak in the system in the back yard.

The Theoretical shows that this pump could provide 0.13 - 0.18 cfs at 30-40 psi

The sprinkler performance data for a Nelson P35/65 with 3/16" nozzles shows that they will provide 6 GPM at 35 PSI.

$$6 \times 6 = 36/448.83 = 0.08 \text{ cfs}$$

0.03 cfs per acre is allowed according to application Processing Memo 17 for irrigation of under 5 acres

X 1.9 acres

0.06 cfs irrigation

Recommend 0.06 cfs for irrigation

At the time that proof was filed the applicant had 4 beef cattle.

$$12\text{gpd} \times 4 \times 365(\text{days in year}) = 17,520 \text{ gpy}/646,315 = 0.03 \text{ cfs}$$

According to Administrative memo # 3, 0-10 head of stock is allowed 0.02 cfs

Recommend 0.02 cfs for stockwater

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.9 \times 4.5 = 8.6$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 260 \times 1.9835 = 30.94$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 8.6 \text{ af}$$

2. Volume Calculations for Other Uses:

According to Administrative memo # 3, 0-10 head of stock is allowed 0.2 af/yr

G. NARRATIVE/REMARKS/COMMENTS:

The department received a proof of beneficial use in 2000. The permit was for irrigation of 2.5 acres and stockwater for 4 cattle. The department approved this permit for 2.5 acres. At the time of the permitting process the applicant provided copies of two tax assessments to prove ownership of two lots they were for Lots 20 and 21 Blk 5 of Five Mile Estates West #2. The department left lot 20 off of the permit in error. The two lots total 2.3 acres. Historical imagery supports that there was 1.9 acres of irrigated property. There is a wastewater ditch that runs across the Southern end of the property that discharges water into the Eight Mile Creek. Then the ditch picks up again on the east side of the creek and continues to the East. The property owners have shares from this ditch which are picked up from the diversion in Eight Mile Creek on their

irrigation days.

The system consists of a 1 ½ inch pipe from within a concrete box to a 2 hp pump then to 1 ½ inch PVC then into 2 inch pipe. It then goes to a buried pipeline. Then to sprinkler ports throughout the lawns and a couple of raised pipe for sprinklers. They had flooding issues last year and did not remove the pump before winter set in. They had to repair the pump due to winter freezing and had it installed just days before the field exam. A good measurement was not possible due to a large leak in their system. We attempted to get a pressure measurement from the irrigation system. The reading was extremely low (10 PSI). When the landowners were asked about this they informed us that there was a leaking pipe in the back yard of the property. Since this license qualifies for an in-house field exam, I proceeded without a measurement. This permit will be split upon licensing. The owner of lot 20 will receive 1.1 acres of the irrigation right with 5.0 af and 0.03 cfs. The owners of lot 21 will received 0.8 acres of the irrigation right with 3.6 AF and 0.03 cfs. Since the creek lies entirely on Lot 20, and there is no diversion to storage for stockwater, the stockwater portion will be left with lot 20.

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>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	3/01 to 11/15	0.06 CFS	8.6 AF
STOCKWATER	1/01 to 12/31	0.02 CFS	0.2 AF
	<u>Totals:</u>	0.08 CFS	8.8 AF

2. Recommended Amendments

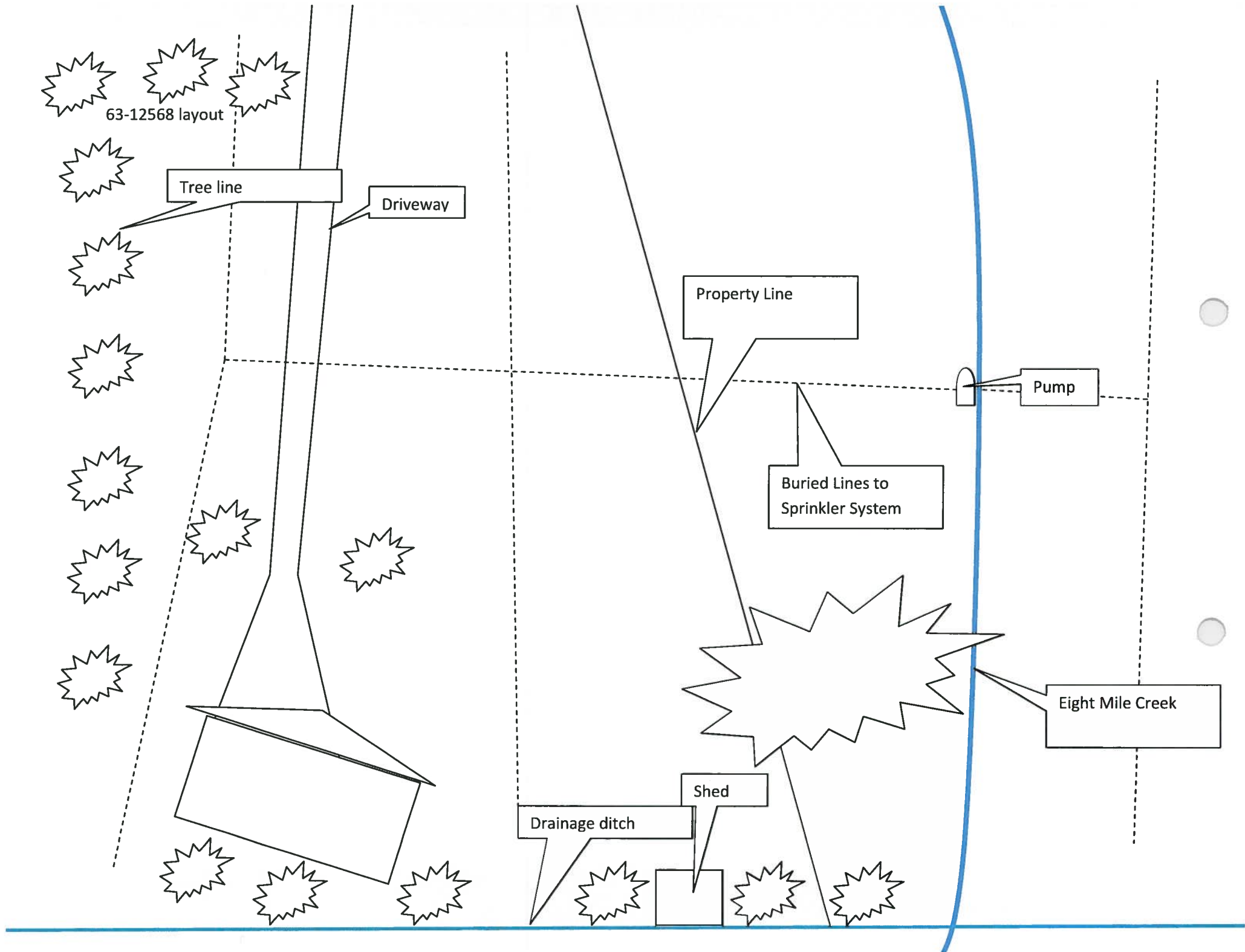
_____ Change P.D. as reflected above _____ Add P.D. as reflected above x None

_____ Change P.U. as reflected above _____ Add P.U. as reflected above x None

I. AUTHENTICATION: Clay Webster Water Resource Agent

Field Examiner's Name Chy Woo Date 8/2/2016

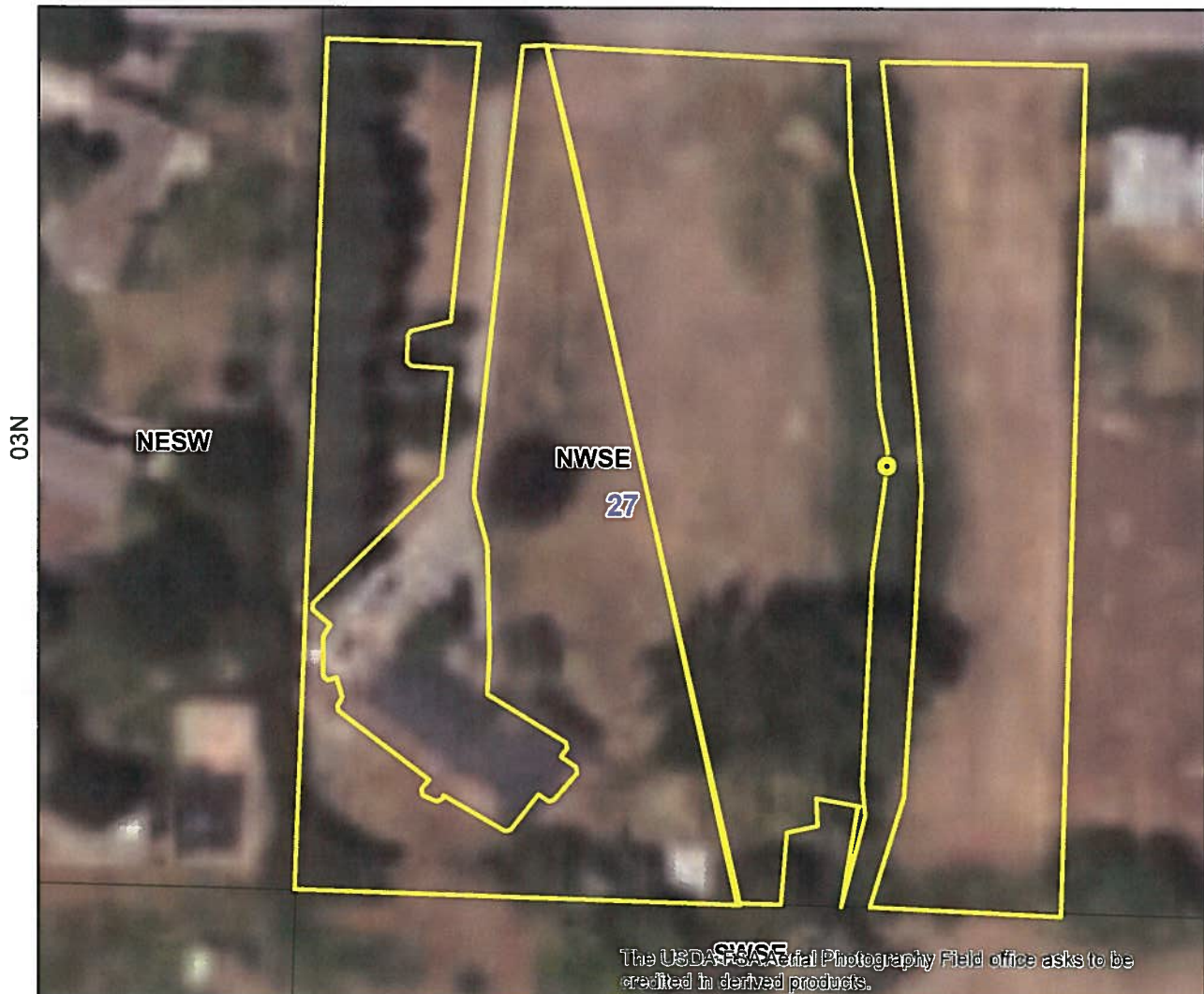
Reviewer _____ Date _____



State of Idaho
Department of Water Resources
Attachment to Field Exam
63-12568

This map depicts the IRRIGATION place of use boundary for this permit at the time of this exam and is attached solely for illustrative purposes.

01E



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

0 0.0075 0.015 0.03 Miles



TRS	Process	BasinSequence	Owner	Source	PODPOU	Use	NWSE	TotalAcres
03N01E27	Water Perr	63-12568	MASCHMANN, CHRISTINE; MASCHMANN, RICHARD F	EIGHTMILE CREEK	POU	IRRIGATION	2.5	2.5
03N01E27	Water Right	63-10507	FOGG, JOHN C; FOGG, SHARON K	EIGHTMILE CREEK	POU	IRRIGATION	0.8	0.8
03N01E27	Water Right	63-9157	MURPHY, CAMERON G; MURPHY, ELLEN M; O REILLY , TERRI; O REILLY JR, DUANE	EIGHTMILE CREEK	POU	IRRIGATION	1	1

P35/65 PERFORMANCE DATA

MODEL P35 (Part Circle) — 3/4" W/ VANE — 27° TRAJECTORY — (Data gathered from sprinkler on 12" riser — no wind)

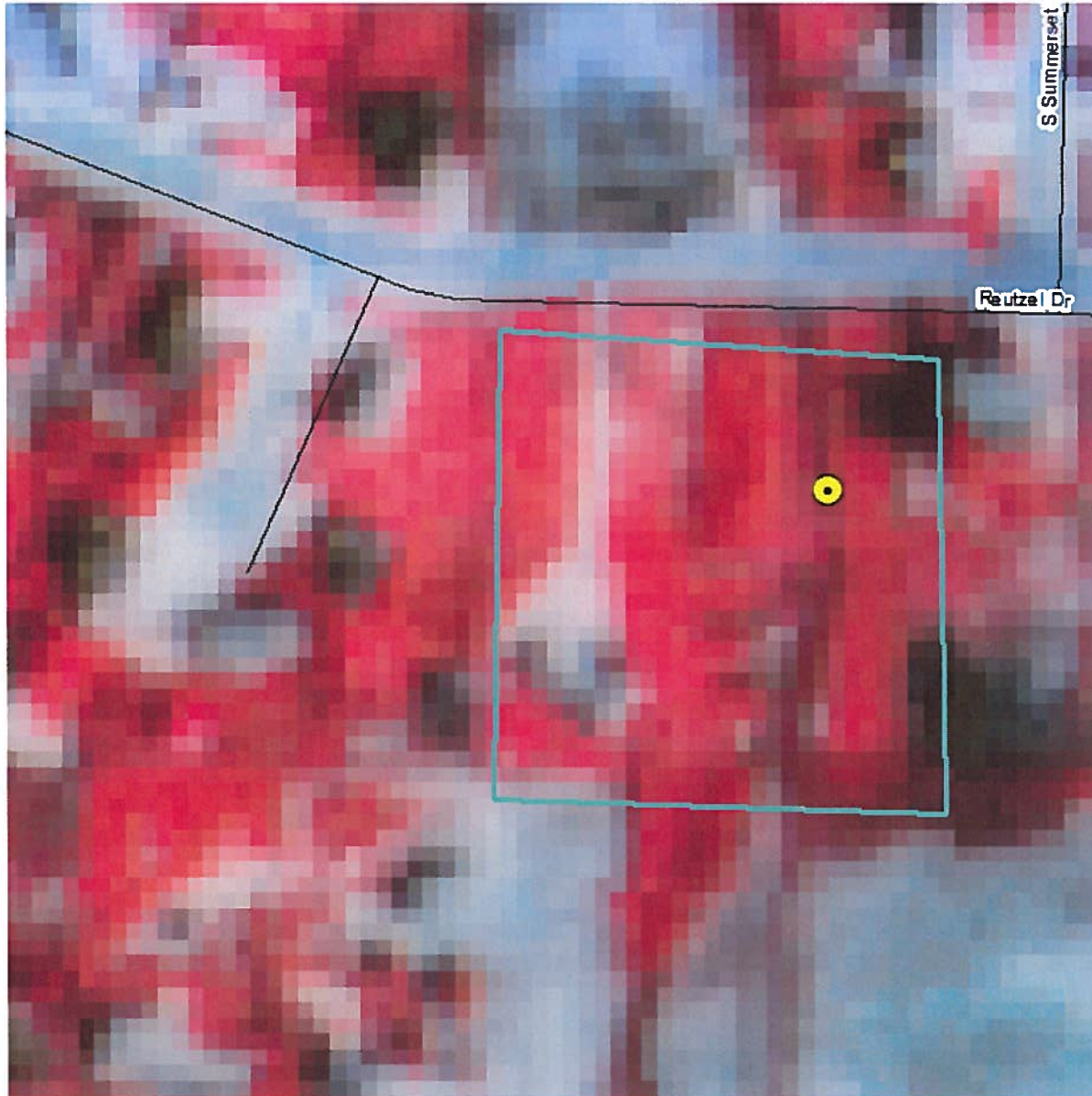
DISCONTINUED

	5/32"		11/64"		3/16"		13/64"		7/32"	
BASE PSI	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.	GPM	RAD. FT.
30	3.9	41	4.6	44	5.5	44	6.5	46	7.5	46
35	4.2	42	5.0	45	6.0	45	7.0	47	8.0	48
40	4.5	43	5.3	46	6.4	47	7.5	48	8.6	52
45	4.75	44	5.6	47	6.8	48	8.0	49	9.2	53
50	4.9	45	6.0	48	7.2	49	8.4	50	9.6	54
55	5.2	46	6.3	49	7.5	49	8.8	51	10.0	54
60	5.4	47	6.6	50	7.9	50	9.1	54	10.5	55
65	5.6	48	6.9	50	8.2	51	9.5	54	10.9	56
70	5.8	49	7.1	51	8.6	52	9.8	55	11.3	57
75	6.1	50	7.4	52	8.8	52	10.2	55	11.8	57
80	6.3	51	7.6	52	9.1	53	10.5	56	12.1	58



1992-2000 Imagery supports development of both lots

Aerial imagery from 1987





Front of property from Ruetzel Dr. Just West of Creek



Front of property with sprinklers



2 HP Pump from West side of Eight-mile Creek



Piping on East side of Eight Mile Creek



Property from West side of Eight Mile Creek



Property line between the two lots with Eight Mile Creek at left



Drainage ditch along South Side of property



Drainage ditch along South Side of property