

[illegible]

3. Delivery System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

Scale: 1" = _____

☒ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

☒ Aerial Photo Attached (required for irrigation of 10+ acres)

☒ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		3		Red Jacket	
		1/2		Red Jacket	40087661X4

*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: Please see narrative

E. NARRATIVE/REMARKS/COMMENTS

PERMIT: 37-8085
FROM: Amanda Folsom
DATE: August 1, 2001

I met with Dale Mizer and his son on May 30, 2001. This permit was issued for irrigation, stockwater, and domestic use.

POINT OF DIVERSION

There is one well located in the NWSW $\frac{1}{4}$ of Sec 33, Twp 03N, Rge 18E. There are two pumps used to pull water from the well. The first is a 3horsepower Red Jacket. The pump supplies water to the irrigation. The second pump is a $\frac{1}{2}$ horsepower Red Jacket that supplies water to the stockwater. The Mizer's were using 19 Rainbirds at the time of the exam. At one time they were able to use 30 Rainbirds at one time, however, due to certain circumstances the pressure dropped to 20psi. Now they use around 19 Rainbirds at a time.

I calculated the diversion rate using the Rainbirds and also doing a theoretical. Both calculate a total diversion rate of 0.15cfs. For the stockwater I had to use a theoretical. Both wells are very old, however, the Mizer's had the original pump information with the wells. This calculated to be 0.03cfs for stockwater.

PLACE OF USE

The place of use is located in the NWSW $\frac{1}{4}$ of Sec 33. The Mizer's are irrigating 8 acres of pastureland for the horses and other stock kept there on the property. They keep a maximum of 75 head of cattle on the property. There are 5 watering troughs that hold 200 gallons apiece. There was no house or domestic use at the time of the exam.

I am recommending 0.15cfs for irrigation and 0.03cfs for stockwater. For the volume I am recommending 28.0afa for irrigation and 1.0afa for the stockwater.

Idaho Department of Water Resource

Recommendation for 37-8085

James Dale Mizer



-  Point of Diversion
-  Section Lines
-  Quarter-quarter lines
-  Place of Use



Point of Diversion and Place of Use
T03N R18E S33
Data entry on August 1, 2001
Point of Diversion Presentation
1987/1988 NAPP Photography
Data Entry By: Amanda Folsom



Corrals, hay barn, shed, and pastureland



Well and vinyl main line

Mizer, James D. 37-8085



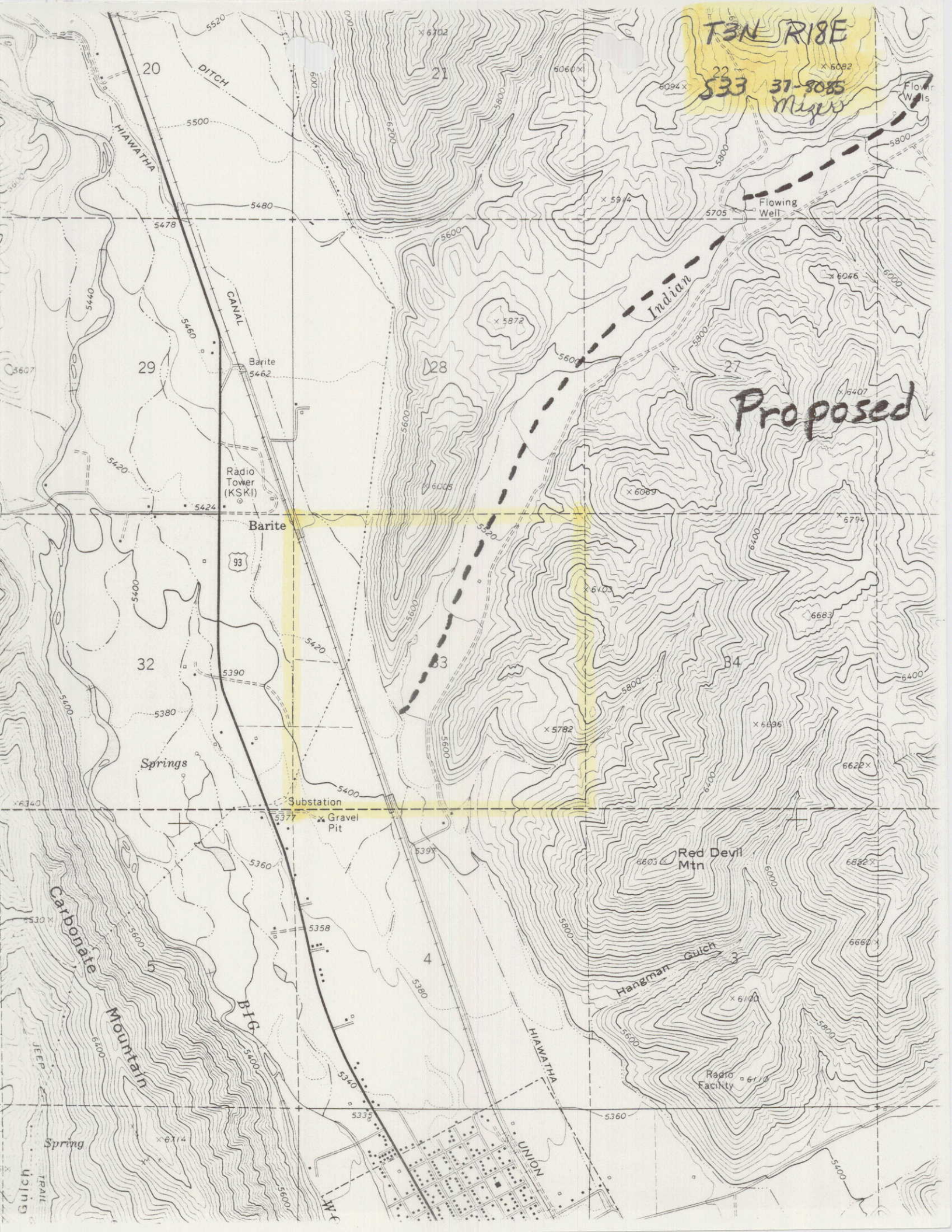
Well &
Well house
stock
Tanks at
corral



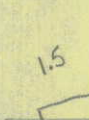
Place of use w/ sprinklers & Well house



TWP	RNG	SECT	TRACT	LOT	WATER USE CODE	WATER RIGHT NO.	LAST NAME	O	STG	PRIORITY	POD	WATER SOURCE	
			1	4	1	4		C		DATE	FLAG		
03N	18E	29	NW	SE	01		37-00658	TROEGER	0	D	06/15/1891	R	BIG HOOD RIVER
								HIBBARD	C				
								HIBBARD	C				
			SW	SE	01		37-07672	POPPY	C	L	09/15/1977		GROUNDWATER
								MONK	O				
								MONK	O				
			SW	SE	01		37-08422	MC NAMARA	C	P	10/17/1988		GROUNDWATER
			SW	SE	2	43	37-07190	HARRIS	C	L	01/08/1973		GROUNDWATER
								PRICE	C				
30			SE	SW	01,04		37-04294	DEER CREEK RANCH	C	S	04/01/1880		UNNAMED STREAM
32			NW	NE	01		37-00521B	OSBORN	C	D	06/01/1886		BIG HOOD RIVER
							37-00521E						
			NW	NE	01		37-00521G	OSBORN	C	D	06/01/1886		BIG HOOD RIVER
			NW	NE	01		37-00522B	OSBORN	C	D	05/04/1889		BIG HOOD RIVER
							37-00522C						
			NW	NE	01		37-00522E	OSBORN	C	D	05/04/1889		
			NW	NE	01		37-00523B	OSBORN	C	D	05/21/1890		BIG HOOD RIVER
			NW	NE	01		37-00523C	OSBORN	C	D	05/21/1890		BIG HOOD RIVER
			NW	NE	01		37-00523D	OSBORN	O	D	05/21/1890		BIG HOOD RIVER
								BODNER	C				
			NW	NE	49,43		37-07588	G U C INC.	C	L	05/20/1977		GROUNDWATER
			SE	NE	01,43		37-02507	CHAPMAN	O	L	01/05/1950		GROUNDWATER
								HOLLINGSWORTH	C				
			SE	NE	01		37-02640	CHAPMAN	C	L	09/16/1960		GROUNDWATER
			NE	NW	01		37-00577AK	RILEY	O	D	03/24/1883		BIG HOOD RIVER
								MC CARTNEY	C				
								MC CARTNEY	C				
			NE	NW	01		37-08322	NORRIS	C	L	11/10/1987		GROUNDWATER
			NE	SW	01		37-04106	CHAPMAN	C	S	01/01/1941		SPRING
								CHAPMAN	C				
			NE	SE	SW	01	37-00558	PURDUM	O	D	06/01/1886		BIG HOOD RIVER
								ASPEN LAKES LTD.	C				
			NE	SE	SW	01	37-00559	PURDUM	O	D	06/01/1888		BIG HOOD RIVER
								ASPEN LAKES LTD.	C				
			NE	SE	SW	01	37-00557	PURDUM	O	D	05/15/1884		BIG HOOD RIVER
								ASPEN LAKES LTD.	C				
			SW	SE	46		37-07767	FLYING HEART RANCH	C	P	02/27/1979		UNNAMED SPRINGS
			SW	SE	01		37-08370	JEFFERSON	C	L	08/02/1988		GROUNDWATER
			SW	SE	01		37-07146	IDAHO POWER CO.	C	L	05/23/1972		GROUNDWATER
			SW	SE	43,49		37-07396	IDAHO POWER CO.	C	L	10/29/1974		GROUNDWATER
			SW	SE	43		37-07915	OVERFIELD	C	L	06/05/1981		GROUNDWATER
SE			NW	NE	04,28,46,49,52		37-07909	INDIAN CREEK HOMEQ	C	A	03/11/1981		INDIAN CREEK
			NW	NE	43		37-08035	INDIAN CREEK HOMEQ	C	P	09/01/1982		GROUNDWATER
			NW	SW	01,04,43		37-08085	MIZER	C	P	04/18/1983		GROUNDWATER
			SE	SW	10		37-08409	CHAPMAN	C	P	11/30/1988		GROUNDWATER
			SE	SE	SW	43,01	37-08508	THORNTON	C	P	05/22/1989		GROUNDWATER
								BUTTRAM	C				
			SW	SW	SE	01	37-08448	FRIEDLY	C	P	10/27/1988		GROUNDWATER
			NW	SE	46,53		37-08252	DALE	C	P	01/06/1986		BIG HOOD RIVER, EAST FORK
19E	19E		SW	SE	01,43		37-02358	SAUNDERS	C	L	10/04/1917		BAUGH CREEK
20E	19E		NE	NE	01,43		37-02359	SAUNDERS	C	L	10/04/1917		FISHER CANYON
			NW	NW	01,43		37-02358	SAUNDERS	C	L	10/04/1917		BAUGH CREEK



8 Acres



A hand-drawn diagram of a rectangular plot divided into four quadrants by a horizontal and vertical line intersecting at a central point. The top-left quadrant is labeled '1.5', the top-right '0.5', the bottom-left '3.5', and the bottom-right '2.5'.





E. NARRATIVE/REMARKS/COMMENTS

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

Additional Calculation Sheets Attached

Measured Method:

$$19 \text{ Rainbirds } (3.5 \text{ gpm}) = \frac{66.5 \text{ gpm}}{448.83} = \boxed{0.15 \text{ cfs}}$$

$$\frac{8.8(1/2)(1.7)}{70 + (20 \cdot 2.31)} = \frac{3.08}{116.2} = \boxed{0.03 \text{ cfs}}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{8(3.5) = 28.0}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{0.15(1.9835)(215) = 63.9}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{28.0}$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	4/1	11/01	0.15	28.0
Stockwater	1/1	12/31	0.03	1.0
Totals:			0.18	29.0

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 Amanda Tolson Date 8/1/01

Reviewer _____ Date _____

SEAL