

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 57-7610

Exam Date: 6/4/2015

1. Current Owner: JUNAYO RANCH LTD PARTNERSHIP
1087 W RIVER ST STE 230
BOISE ID 83702
(208)343-8880

2. Accompanied by: Owen Orndorff

Phone No: (208)343-8880

Address: 12262 Hootenany Rd, Murphy, ID 83650

Relationship to Permit Holder: Ranch owner

3. SOURCE

MACKS CREEK
REYNOLDS CREEK

TRIBUTARY

REYNOLDS CREEK
SNAKE RIVER

B. OVERLAP REVIEW

- Other water rights with the same place of use: See overlap comparison sheets
- Other water rights with the same point of diversion: See overlap comparison sheets

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

MACKS CREEK SE1/4SW1/4 Sec. 13, Twp 02S, Rge 04W, B.M. OWYHEE County (Injection)

MACKS CREEK SE1/4SW1/4 Sec. 13, Twp 02S, Rge 04W, B.M. OWYHEE County

MACKS CREEK NW1/4NE1/4 Sec. 27 Twp 02S, Rge 04W, B.M. OWYHEE County (Rediversion)

REYNOLDS CREEK NE1/4NE1/4 Sec. 25, Twp 02S, Rge 04W, B.M. OWYHEE County (Rediversion)

Method of Determination: Digital PLSS map used with aerial photography using ArcMap.

2.**PLACE OF USE: IRRIGATION FROM STORAGE**

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02S	04W	13									4.0			21.0				24.0	49.0
02S	04W	14																1.0	1.0
02S	04W	23	10.0	8.0	14.0						12.0	15.0					4.0		63.0
02S	04W	24	32.0	3.0	14.0	19.0		2.0											70.0

Total Acres: 183

PLACE OF USE: IRRIGATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02S	04W	13									X			X					

Method of Determination: Digital PLSS map used with aerial photography using ArcMap.

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 Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
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*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: No measurements taken.

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: No diversion rate for this right.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

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

2. Volume Calculations for Other Uses:

Permit to exchange 183 acre feet of water on 183 acres.

G. NARRATIVE/REMARKS/COMMENTS

The field exam was completed by Water Resource Agent Patrick Kelly on June 4, 2015.

This water right application was filed to exchange surface water rights out of Macks and Reynolds Creek while releasing an equal amount of water stored in Lower Macks Creek Reservoir. This water right DOES NOT authorize the additional storage of 183 af in the reservoir. The beneficial use IRRIGATION STORAGE is placed on the right to identify the injection water that is released to mitigate the rediversion volumes from the two creeks. See the memo by Gary Spackman dated 12/30/1999.

The water right was split into two parts after BLM protested the irrigation use on BLM ground. This resulted in two separate water right permits issued in the names of BLM and Junayo Ranch for the same project. A users agreement was made between both parties which allowed Junayo to irrigate BLM ground. The "Macks Creek Cooperative Agreement" expired in 2009, and because the permit does not authorize additional storage of water, BLM will have to form another land use agreement with Junayo Ranch or cease diversion. Processing of permit 57-11707 is being executed concurrently with this right.

A memo by CPADILLA dated 10/2/2009 provides a summary and overlap review for 57-7610. This memo identifies 252 total acres of overlap. It was not clear exactly how these totals were calculated. Padilla's analysis also appears to not include all active water rights that overlap Permit 57-7610.

Overlap review is particularly difficult for all of Junayo Ranch given the number of water rights that overlap and do not include combined use limits. A POU Comparison sheet was printed to identify all water rights in each specific quarter-quarter (QQ). Because most of these rights do not carry combined use limits, an attempt to pair overlapping rights was made on the comparison sheet by color coding rights that cover the same acres. There is no correlation between colors from one QQ to the next; it is solely an attempt to determine the number of acres actually licensed within each individual QQ. A measurement of irrigated acres was taken based on historical aerial photography. Finally, a comparison of what is licensed versus what is measured determined the acres of irrigation authorized within each QQ. A total overlap 57-7610 of 281 irrigated acres was measured on Junayo Ranch property using this method. A more in depth review of diversion rate and volume limit would require an analyst to review each right as it was claimed/applied for in order of priority. Combined use limits on rate and volume are not being placed on the license since the potential to add value to the permit exists without further analysis. General conditions such as 0.02 cfs and 3.5 af per acre should limit Junayo Ranch from over-appropriating.

The POU shape was determined by acres historically irrigated. An attempt was made to acknowledge irrigated land at the time closer to when the application was made (1995) than when proof of beneficial use was submitted (2014). But a combination of both imageries was used. POU was kept within quarter-quarter's that were identified on the permit. Some acres were exchanged within these quarter-quarters to more accurately describe irrigation use by the ranch and will require a licensing amendment.

No diversion rate is being recommended for this right since this right is for the sole purpose to exchange storage water for water taken out of the natural systems. At the time of the field exam, there is a weir at the end of the delivery ditch before water is distributed about the ranch. There is also a weir past the Lower Macks Reservoir Dam to measure flows released from the reservoir. There is a flume installed at the head of the Reynolds Creek diversion. The watermaster should use these measuring devices to confirm that water being taken is equally being released out of the reservoir. Mr. Orndorff confirmed that this was the understanding he had with WD 57R watermaster Connie Brandau at the time of our visit.

Some QQ's on the permit authorized acres that were not being irrigated while other QQ's carried too little on areas more largely irrigated. A licensing amendment will correct the diversion description on Mack's Creek and move acres to accurately reflect use.

Have conditions of permit approval been met? ☒ 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 FROM STORAGE	03/15 to 11/15		183.00 AF
IRRIGATION STORAGE	11/15 to 03/15		183.00 AF
<u>Totals:</u>			183.00 AF

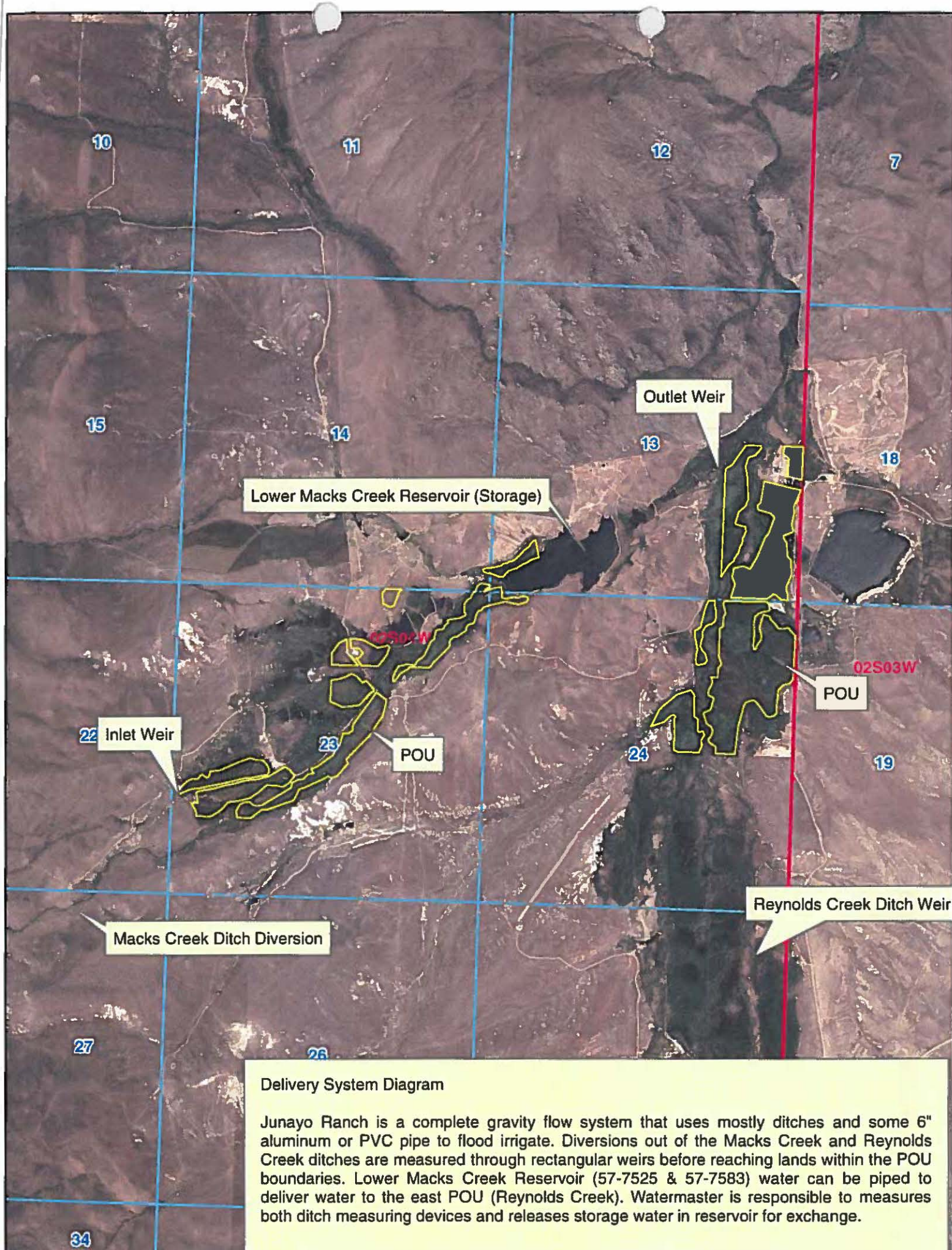
2. Recommended Amendments

☒ 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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name Patricia Melly Date 6-4-2015
 Reviewer _____ Date _____



Delivery System Diagram

Junayo Ranch is a complete gravity flow system that uses mostly ditches and some 6" aluminum or PVC pipe to flood irrigate. Diversions out of the Macks Creek and Reynolds Creek ditches are measured through rectangular weirs before reaching lands within the POU boundaries. Lower Macks Creek Reservoir (57-7525 & 57-7583) water can be piped to deliver water to the east POU (Reynolds Creek). Watermaster is responsible to measure both ditch measuring devices and releases storage water in reservoir for exchange.

SECTION 23

Basin Sequence	Draft	Owner	Source	POD/POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
57-11516	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU	2.0	9.0	6.0														17
~~57-11767~~	N	BUREAU OF LAND MANAGEMENT	MACKS CREEK	POU					-2.0		-1.0	-14.0									17
~~57-11885~~	N	JUNAYO RANCH LTD PARTNERSHIP	WASTE WATER	POU		6.0															6
57-2085	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU	9.0		14.0	1.0					16.0	16.0	1.0			4.0			61
262	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU	2.0	9.0	6.0														17
57-7454	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU	15.0	9.0	20.0	1.0													45
57-7610	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK, REYNOLDS	POU	9.0	8.0	14.0						16.0	16.0				4.0			67
57-7610	Y	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK, REYNOLDS	POU	27.0	13.0	26.0	1.1				0.3	28.0	24.0	3.2			4.7			127.3

15
 9
 2
 15
 13
 11
 8

16
 16
 1
 16
 16
 1
 4
 20
 15
 4

TOTAL ACRES: 84

57-7610 POU OVERLAP

- 7454
- 262
- 2085
- 11516

SECTION 13

Basin Sequence	Draft	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
57-1073	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU				14.0													14
57-1074	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU				3.0								13.0	8.0	9.0	7.0		40
57-11514	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU												21.0			25.0		46
57-11516	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU											12.0						12
57-11629	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU														X			0
57-11635	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU											2.0						2
57-2296	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU												21.0			25.0		46
57-2325	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU				5.0								21.0			25.0		51
57-248	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU				3.0								13.0	8.0	9.0	7.0		40
57-249	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU				14.0													14
57-262	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU											12.0						12
57-7400	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU				9.0													9
57-7454	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU											2.0						2
57-7525	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU												13.0	8.0	9.0	7.0		37
57-7583	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU			2.0	5.0								13.0	13.0	9.0	7.0		49
57-7610 PERMIT	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK, REYNOLDS CREEK	POU										10.0		21.0			25.0		56
57-7610	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK, REYNOLDS CREEK	POU											X	X					0
57-7610 PERMIT	Y	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK, REYNOLDS CREEK	POU											X	X					0
57-7610	Y	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK, REYNOLDS CREEK	POU																	0

57-7610 POU OVERLAY

-7583

-7525

-248

-2325

-2296

-7454

-262

-2085

-11516

-11514

-1074

$$\begin{array}{r} 2 \quad 14 \\ 5 \\ 3 \\ 4 \\ \hline 2 \quad 24 \end{array}$$

$$\begin{array}{r} 12 \\ 2 \\ \hline 14 \\ 17 \end{array} \quad +3 \quad \begin{array}{r} 21.0 \\ 13.0 \\ \hline 34 \\ 21 \end{array} \quad \begin{array}{r} 8 \\ 13 \\ \hline 21 \\ 13 \end{array} \quad \begin{array}{r} 9.0 \\ 9 \\ \hline 18 \end{array} \quad \begin{array}{r} 25.0 \\ 7.0 \\ \hline 32 \end{array}$$

TOTAL ACRES: 103

Basin Sequence	Draft	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
57-1068	N	JUNAYO RANCH LTD PARTNERSHIP	WASTE WATER	POU			15.0														15
57-1070	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU	22.0	4.0	3.0	14.0													43
57-1074	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU		4.0															4
~~57-1078~~	N	~~ROMERO, CATHERINE A, ROMERO, JOHN P.~~	REYNOLDS CREEK	POU													~~4.0~~	~~29.0~~	~~7.0~~		40
57-11514	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU	12.0																12
57-2085	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU					4.0												4
57-2296	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU	12.0																12
57-248	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU		4.0															4
57-252	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU	22.0	4.0	3.0	14.0													43
57-7400	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU	22.0	4.0	3.0	14.0													43
57-7454	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU					4.0												4
57-7472	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU				X													0
57-7525	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU	22.0	4.0	3.0	1.0													30
57-7525	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU		4.0	5.0														19
57-7532	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU				X													0
57-7532	N	JUNAYO RANCH LTD PARTNERSHIP	REYNOLDS CREEK	POU	22.0	4.0	3.0	14.0													43
57-7583	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU		4.0	15.0														19
57-7610	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK, REYNOLDS CREEK	POU	34.0	4.0	3.0	14.0		4.0											59

PERMIT

$$\begin{array}{r}
 22.0 \quad 4.0 \quad 15.0 \quad 14.0 \quad 4.0 \\
 + \quad 12 \quad 4 \quad 3.0 \quad 14 \quad 4 \\
 \hline
 34 \quad 8 \quad 18 \quad 28 \quad 4 \\
 32 \quad 7 \quad 17 \quad 28 \quad 3
 \end{array}$$

TOTAL ACRES: 92

SECTION 14

Basin Sequence	Draft	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
57-11516	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU																1.0	1
~~57-11805~~ PERMIT	N	JUNAYO RANCH LTD PARTNERSHIP	WASTE WATER	POU															~~8.0~~		6
57-2085	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU																1.0	1
57-262	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU																1.0	1
57-454	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK	POU																2.0	2
57-7610 PERMIT	N	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK, REYNOLDS	POU																1.0	1
57-7610	Y	JUNAYO RANCH LTD PARTNERSHIP	MACKS CREEK, REYNOLDS	POU																3.9	3.9

1
2
—
2
2

TOTAL ACRES : 2



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 6, 2015

JUNAYO RANCH LTD PARTNERSHIP
1087 W RIVER ST STE 230
BOISE ID 83702

RE: Scheduling Field Exam for Water Right Permit No. 57-7610, 57-11707 & 57-11805.

Dear Permit Holder:

We are planning to **conduct water right examinations** in the vicinity of the above-referenced permit **during the week of April 13, 2015**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal conditions during the examination. The permit authorizes irrigation storage ponds.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by April 10, 2015.** If there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

Patrick Kelly.
Water Resource Agent