

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 34-07595
Exam Date: 10/3/2018

1. Current Owner:
BORAH BORAH RANCH LLC C/O MICHAEL JOHN
91 LAUREL GROVE AVE
PO BOX 819 ROSS CA 94957

2. Accompanied by: Dale Huffaker
Phone No: 208-390-3253
Address:
Relationship to Permit Holder: Farm Manager

3. **SOURCE:**
GROUND WATER

TRIBUTARY:

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Mitigation rights 34-583B, 34-699B, 34-702B, 34-703B, 34-704B, 34-14582, 34-14583, 34-14584, 34-14585, and 34-14586

2. Other water rights with the same point-of-diversion: Mitigation rights 34-583B, 34-699B, 34-702B, 34-703B, 34-704B, 34-14582, 34-14583, 34-14584, 34-14585 and 34-14586

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

GROUND WATER SW¼NW¼ Sec. 36, Twp 08N, Rge 22E, B.M. CUSTER County

Method of Determination: Aerial photography and GPS

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	
08N	22E	35			31.0	31.0									31.0	31.0			124.0
08N	22E	36							32.2										32.2

Total Acres: 156.2

Method of Determination: Aerial photography

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
X 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
A0005195		75			

*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
In-line Flow Meters	Propeller	McCrometer				

2. Measurements: Two in-line flow meters that were installed as part of the delivery system was used to measure maximum rate of diversion. A measurement using Panametric portable flow meter was attempted but unsuccessful. Portable flow meter could not establish a signal to read flow.

E. FLOW

Additional Computation Sheets Attached

CALCULATIONS

Measured Method: 2 in-line meters were used to determine rate of diversion. See pictures.

Diversion rate observed was 1,400 gallons per minute or 3.12 cfs. See pictures.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 156.2 \times 3.5 = 546.7 \text{ Acre-feet}$$

$$V_{D.R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 3.12 \times 214 \times 1.9835 = 1,324.3 \text{ Acre-feet}$$

$$V = \text{Smaller of } V_{I.R} \text{ and } V_{D.R} = 546.7 \text{ Acre-feet}$$

G. NARRATIVE/REMARKS/COMMENTS

75 HP pump used to divert water to two wheel lines and one pivot. Mainline splits to the east (wheel lines) and to the west (pivot). Flowmeters are located on the split main lines. Rights 34-583B, 34-699B, 34-702B, 34-703B, 34-704B, 34-14582, 34-14583, 34-14584, 34-14585 and 34-14586 are used to mitigate for the diversion and use of water under water right 34-7595.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

BENEFICIAL USE
IRRIGATION

PERIOD OF USE
04/01 to 10/31

DIVERSION RATE
3.12 CFS

ANNUAL VOLUME
546.7 AF

Totals:

3.120 CFS

546.70 AF

2. Recommended Amendments

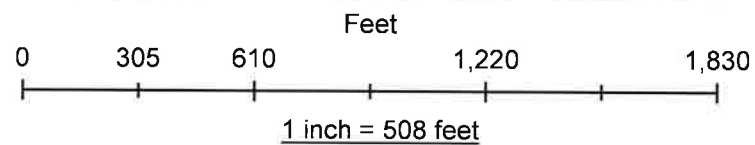
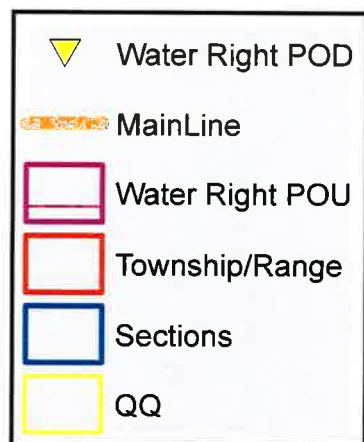
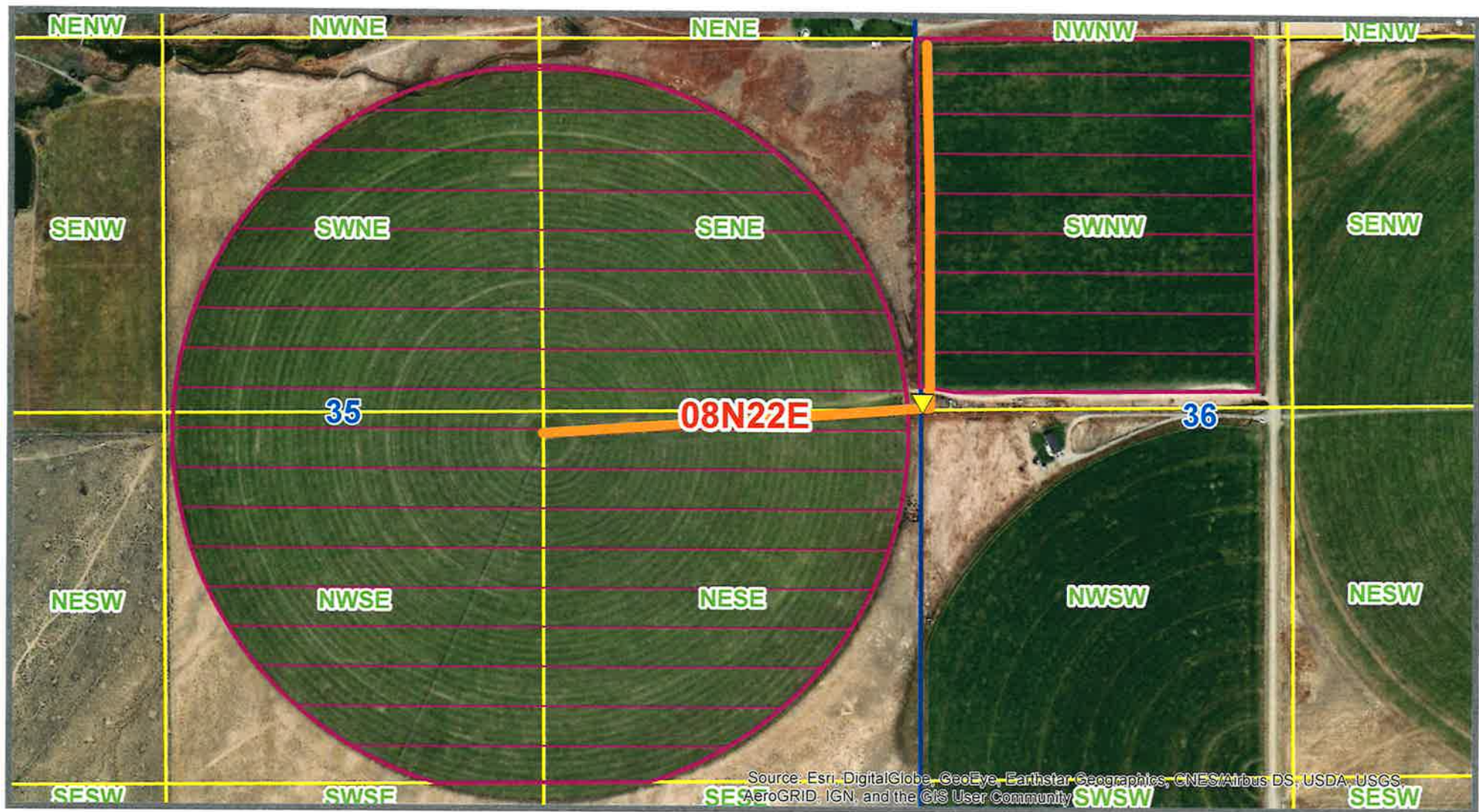
Change P.D. as reflected above Add P.D. as reflected above X None

Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Field Examiner's Name Blake Jordan Date

Reviewer James Cefalo Date 11/16/18

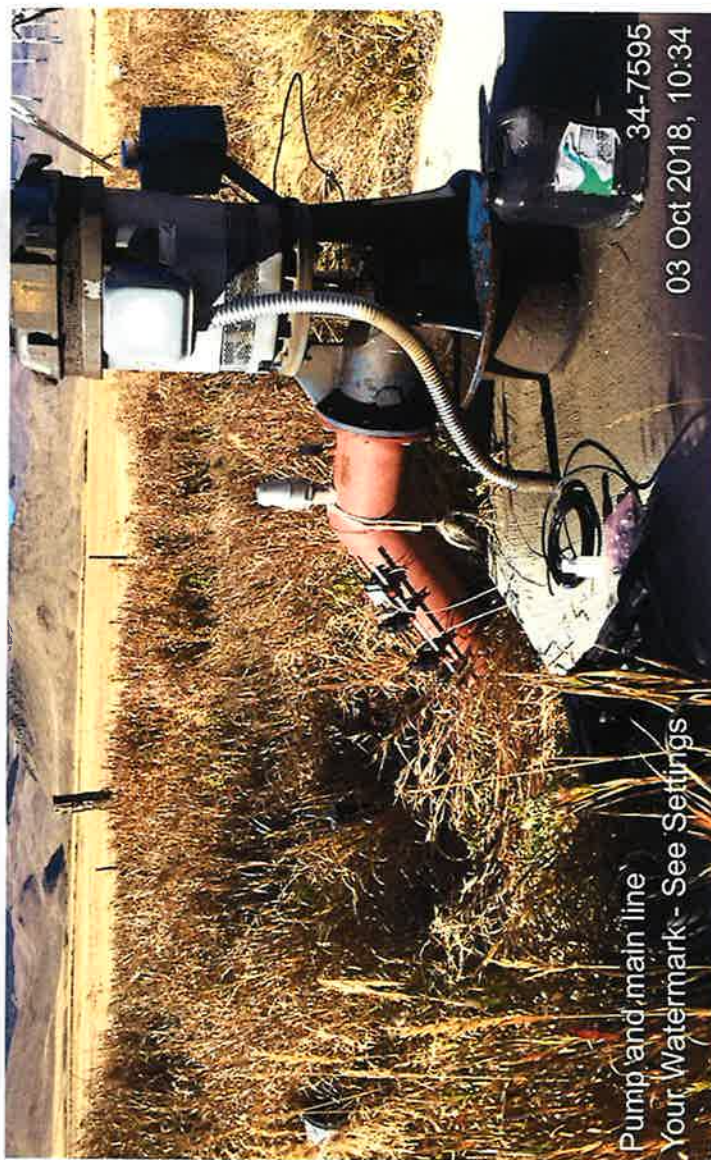


34-7595





273°W (T) 43°58'49"N, 113°48'13"W ±16.4ft ▲ 6180ft



Pump and main line
Your Watermark - See Settings

34-7595
03 Oct 2018, 10:34



25°NE (T) 43°58'49"N, 113°48'14"W ±16.4ft ▲ 6191ft



Your Watermark - See Settings

34-7595 pump tag
03 Oct 2018, 10:32

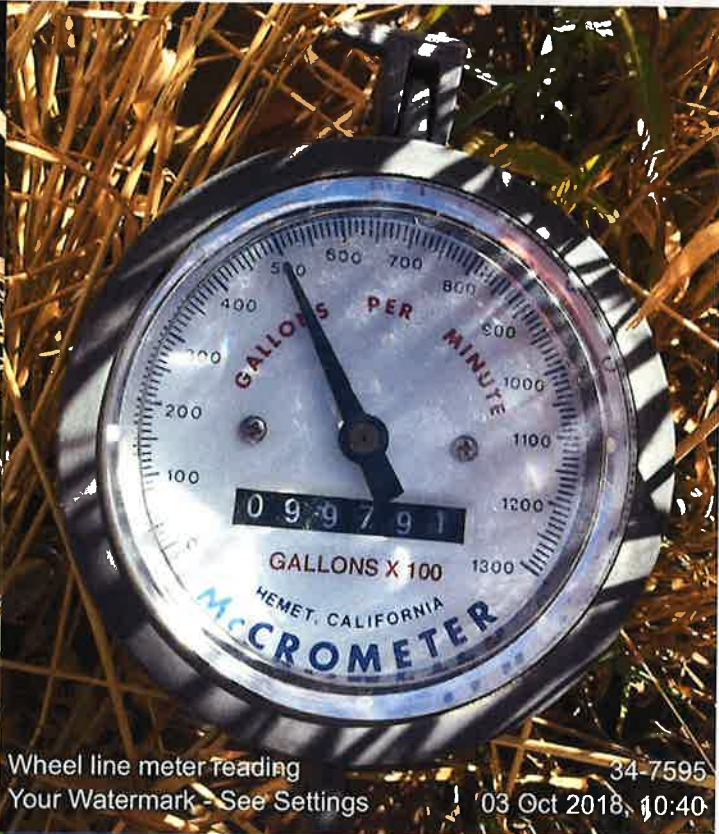


⊗ 244°SW (T) ⊙ 43°58'49"N, 113°48'13"W ±16.4ft ▲ 6173ft ⊗ 165°S (T) ⊙ 43°58'49"N, 113°48'13"W ±16.4ft ▲ 6167ft



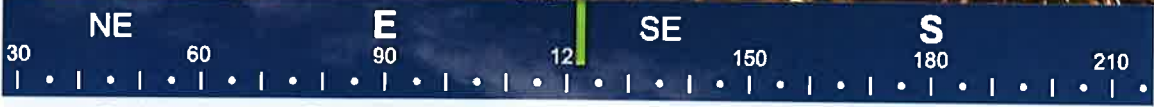
Pivot meter reading
Your Watermark - See Settings

34-7595
03 Oct 2018, 10:38



Wheel line meter reading
Your Watermark - See Settings

34-7595
03 Oct 2018, 10:40



⊗ 87°E (T) ⊙ 43°58'49"N, 113°48'13"W ±16.4ft ▲ 6178ft



Wheel line field
Your Watermark - See Settings

34-7595
03 Oct 2018, 10:33

SE S SW
120 150 180 210 240

☼ 186°S (T) ☉ 43°58'49"N, 113°48'13"W ±16.4ft ▲ 6186ft



Pivot

Your Watermark - See Settings

34-7595

03 Oct 2018 10:33

Original Mitigation Water Rights

Right No.	Priority Date	Source	Rate	Vol	Acres	Comb Rate	Comb Acres	Comb Rate	Comb Acres
34-573B	5/13/1912	BLR	2.4						
34-583B	6/1/1899	BLR	0.8		40				
34-699B	6/1/1885	BLR	0.16		8				
34-702B	5/1/1910	BLR	0.426		21.3		109.2		
34-584D	6/1/1916	BLR	0.58		109.2			4.37	116.2
34-573B	5/13/1912	BLR	2.4		109.2				
34-703B	6/1/1890	WSC	1.4	245	70				
34-704B	5/1/1905	WSC	0.94	350.7	100.2	1.85	100.2		
34-700C	5/1/1905	BLR	0.363	63.7	18.2				
34-701C	7/1/1916	BLR	1.133	198.5	56.7				
34-702C	5/1/1910	BLR	0.416	72.9	20.8				

Amended Mitigation Water Rights

Right No.	Priority Date	Source	Rate	Volume	Acres	Comb Rate	Comb Acres	Comb Rate	Comb Acres	Comb Rate	Comb Acres
34-583B	6/1/1899	BLR	0.8		40						
34-699B	6/1/1885	BLR	0.16		8						
34-702B	5/1/1910	BLR	0.426		21.3		93.2				
34-14582	6/1/1916	BLR	0.5		93.2			3.94	100.2		
34-14586	5/13/1912	BLR	2.05		93.2						
34-703B	6/1/1890	WSC	1.4	245	70					5.21	156.2
34-704B	5/1/1905	WSC	0.94	350.7	100.2	1.85	100.2				
34-14583	7/1/1916	BLR	0.29	50.4	14.4						
34-14584	6/1/1890	WSC	0.77	134.7	38.5	1.27	56				
34-14585	5/1/1905	WSC	0.35	61.3	17.5						