

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7394
Exam Date: 6/6/2019

1. Current Owner:
CHET KEETCH 3450 W 2800 N MALAD CITY ID 83252-6683 AND
JILL KEETCH 3450 W 2800 N MALAD CITY ID 83252-6683
2. Accompanied by: N/A

3. **SOURCE:**
GROUND WATER

Method of Determination: Site Visit

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
15-4052	Small Creek	Irrigation	Statutory Claim

Comments: 15-4092 does not overlap with 15-7394. 15-4092 might irrigate other acres in the SESW of Section 12, but 15-4092 is not included in the system irrigating right 15-7394.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: No overlapping rights.

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER SE¼ SE¼, Sec. 12, Twp 14S, Rge 35E, B.M. ONEIDA County

Method of Determination: GPS, Aerial Photography, Arcmap

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	
14S	35E	12												13.0	5.5	3.5	38.0	20.0	80.0

Total Acres: 80.0

Method of Determination: Aerial photography and 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. **Diversion Information:** 150 HP pump

D. FLOW MEASUREMENTS

Maximum diversion rate of 1.836 cfs (noted on "Measurement Pg 2/3"). License will be limited to permitted rate, 1.6 cfs.

E. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 80 \text{ acres} \times 3.5 \text{ AFA} = 280 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1.6 \text{ cfs} \times 214 \text{ days} \times 1.9835 \text{ AF/cfs/Day} = 679.2 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 280 \text{ AF}$$

F. NARRATIVE/REMARKS/COMMENTS

One 150 HP pump to two pivots and wheel line.

Have conditions of permit approval been met? ☒ Yes ☐ No

G. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	1.60 CFS	280.0 AF

Totals: 1.60 CFS 280.0 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

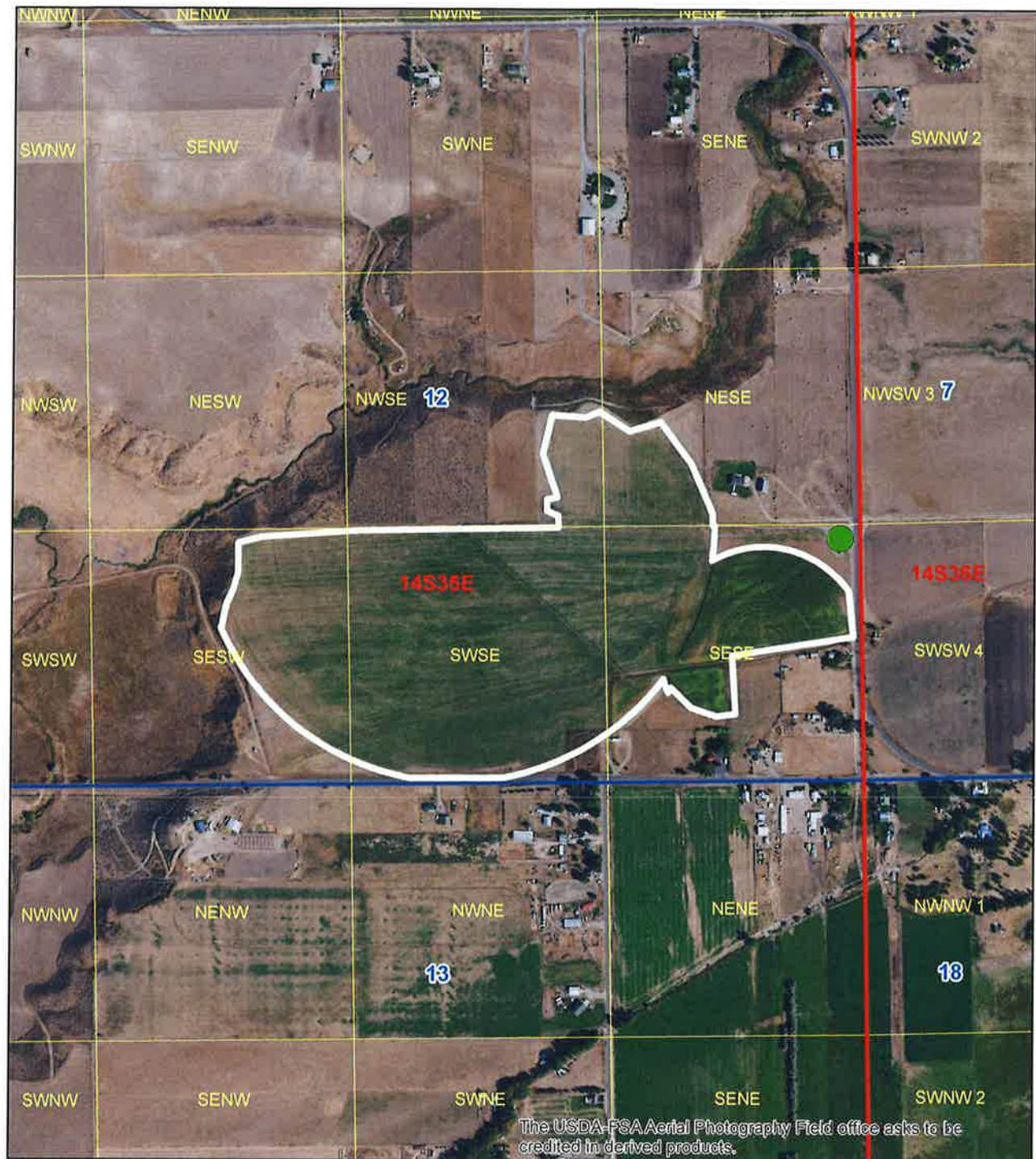
I. AUTHENTICATION

Cooper Fritz - Eastern Region: Water Resource Agent, Senior

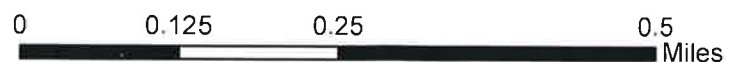
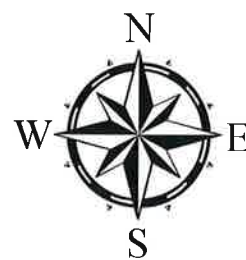
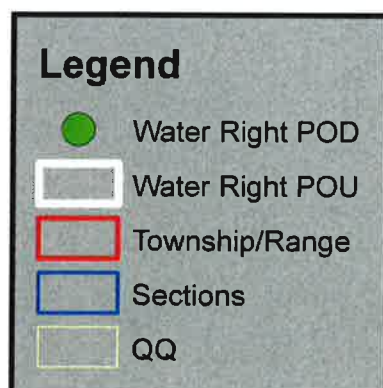
Field Examiner's Name _____ Date _____

Reviewer James Cefalo Date 1/20/2020

15-7394 Place of Use and Point of Diversion at Licensing



2017 Imagery





15-7394 POD

AURORA MOTORS

NEMA MG-1 PART 31
MADE IN CHINA

VERTICAL PUMP MOTORS

460V START/RUN		MODEL 460V 150-LEADS 1/6		VOLTS 460	
7 8 9 1 2 3 L1 L2 L3		HP 150 FRAME 442		AMPS 177 RPM 1755	
		ENCL 1-1 DESIGN B CODE G		HZ 60	
		SERIAL NO. 300074555		INSULATION CLASS F S.F. 1.15	
		DUTY CONT S1 MAX AMB 40°C/104°F		PHASE 1 P-BASE 15-5	
		NEMA NOM. EFFICIENCY 0.50		NEMA GUARANTEED EFFICIENCY 0.41	
		OIL FOR UPPER BRG 8.6 DTS		LITHIUM BASE GREASE FOR LOWER BRG	
		FILL TO THE MIDDLE OF SIGHT GLASS		PRE-GREASED/INSPECT ONCE A MONTH	
		UPPER BEARING SIZE 7232B		LOWER END BEARING SIZE 6318	
		DOWN THRUST 9835 LBS		REFER TO OPERATION MANUAL FOR INSTALLATION	

460V
PWS START

7 8 9
1 2 3
L1 L2 L3


 2031 AMERICAN AVE.
 HAYWARD, CA 94543 USA
 SERVICE 1-888-888-4035 WWW.AURORAMOTORS.COM

12 US PATENT CLASSIFIED

Date/Time	300394 Ch 1 Volume ft³/s	Error	300394 Ch 1 Fwd Totalizer ft³	Error	300394 Ch 1 Velocity ft/s	Error
6/6/2019 10:23	1.766	0	22366.768	0	5.45	0
6/6/2019 10:23	1.77	0	22377.554	0	5.46	0
6/6/2019 10:23	1.766	0	22382.139	0	5.45	0
6/6/2019 10:23	1.767	0	22392.943	0	5.46	0
6/6/2019 10:23	1.771	0	22403.71	0	5.47	0
6/6/2019 10:23	1.769	0	22412.854	0	5.46	0
6/6/2019 10:23	1.771	0	22419.149	0	5.47	0
6/6/2019 10:23	1.773	0	22428.093	0	5.47	0
6/6/2019 10:24	1.766	0	22438.846	0	5.45	0
6/6/2019 10:24	1.765	0	22443.409	0	5.45	0
6/6/2019 10:24	1.763	0	22454.149	0	5.44	0
6/6/2019 10:24	1.765	0	22464.886	0	5.45	0
6/6/2019 10:24	1.763	0	22474.015	0	5.44	0
6/6/2019 10:24	1.766	0	22480.309	0	5.45	0
6/6/2019 10:24	1.77	0	22489.463	0	5.47	0
6/6/2019 10:24	1.77	0	22500.249	0	5.47	0
6/6/2019 10:24	1.764	0	22510.876	0	5.45	0
6/6/2019 10:24	1.764	0	22519.989	0	5.45	0
6/6/2019 10:24	1.762	0	22526.164	0	5.44	0
6/6/2019 10:24	1.772	0	22535.291	0	5.47	0
6/6/2019 10:25	1.763	0	22546.004	0	5.44	0
6/6/2019 10:25	1.761	0	22550.575	0	5.44	0
6/6/2019 10:25	1.754	0	22561.342	0	5.41	0
6/6/2019 10:25	1.76	0	22572.141	0	5.43	0
6/6/2019 10:25	1.762	0	22576.697	0	5.44	0
6/6/2019 10:25	1.765	0	22587.324	0	5.45	0
6/6/2019 10:25	1.764	0	22596.44	0	5.45	0
6/6/2019 10:25	1.759	0	22607.138	0	5.43	0
6/6/2019 10:25	1.763	0	22611.698	0	5.44	0
6/6/2019 10:25	1.763	0	22622.43	0	5.44	0
6/6/2019 10:25	1.766	0	22633.191	0	5.45	0
6/6/2019 10:26	1.762	0	22642.303	0	5.44	0
6/6/2019 10:26	1.764	0	22648.589	0	5.45	0
6/6/2019 10:26	1.765	0	22657.507	0	5.45	0
6/6/2019 10:26	1.764	0	22668.343	0	5.45	0
6/6/2019 10:26	1.762	0	22672.917	0	5.44	0
6/6/2019 10:26	1.758	0	22683.6	0	5.43	0
6/6/2019 10:26	1.759	0	22694.314	0	5.43	0
6/6/2019 10:26	1.761	0	22703.396	0	5.44	0
6/6/2019 10:26	1.759	0	22709.666	0	5.43	0
6/6/2019 10:26	1.758	0	22718.763	0	5.43	0
6/6/2019 10:26	1.754	0	22729.429	0	5.41	0
6/6/2019 10:26	1.737	0	22739.894	0	5.36	0
6/6/2019 10:27	1.717	0	22748.732	0	5.3	0
6/6/2019 10:27	1.725	0	22759.209	0	5.32	0
6/6/2019 10:27	1.73	0	22763.7	0	5.34	0
6/6/2019 10:27	1.731	0	22769.818	0	5.34	0
6/6/2019 10:27	1.732	0	22778.76	0	5.35	0
6/6/2019 10:27	1.742	0	22789.335	0	5.38	0
6/6/2019 10:27	1.739	0	22793.729	0	5.37	0
6/6/2019 10:27	1.742	0	22804.319	0	5.38	0
6/6/2019 10:27	1.75	0	22814.949	0	5.4	0
6/6/2019 10:27	1.743	0	22823.957	0	5.38	0
6/6/2019 10:27	1.748	0	22834.665	0	5.4	0
6/6/2019 10:27	1.752	0	22839.196	0	5.41	0
6/6/2019 10:27	1.752	0	22849.961	0	5.41	0
6/6/2019 10:28	1.757	0	22860.658	0	5.43	0
6/6/2019 10:28	1.765	0	22869.6	0	5.45	0

6/6/2019 10:28	1.836	0	22880.56	0	5.67	0
6/6/2019 10:28	1.819	0	22885.265	0	5.62	0
6/6/2019 10:28	1.817	0	22896.167	0	5.61	0
6/6/2019 10:28	1.807	0	22900.984	0	5.58	0
6/6/2019 10:28	1.803	0	22912.056	0	5.57	0
6/6/2019 10:28	1.788	0	22922.949	0	5.52	0
6/6/2019 10:28	1.777	0	22932.158	0	5.49	0
6/6/2019 10:28	1.723	0	22942.735	0	5.32	0
6/6/2019 10:28	1.729	0	22947.103	0	5.34	0
6/6/2019 10:28	1.728	0	22957.575	0	5.33	0
6/6/2019 10:29	1.732	0	22968.087	0	5.35	0
6/6/2019 10:29	1.726	0	22977.002	0	5.33	0
6/6/2019 10:29	1.726	0	22983.121	0	5.33	0
6/6/2019 10:29	1.731	0	22991.975	0	5.34	0
6/6/2019 10:29	1.738	0	23002.624	0	5.36	0
6/6/2019 10:29	1.737	0	23007.134	0	5.36	0
6/6/2019 10:29	1.743	0	23017.787	0	5.38	0
6/6/2019 10:29	1.744	0	23022.192	0	5.38	0
6/6/2019 10:29	1.757	0	23032.85	0	5.43	0
6/6/2019 10:29	1.749	0	23043.492	0	5.4	0
6/6/2019 10:29	1.754	0	23052.52	0	5.42	0
6/6/2019 10:30	1.753	0	23063.266	0	5.41	0
6/6/2019 10:30	1.751	0	23067.812	0	5.41	0
6/6/2019 10:30	1.753	0	23078.584	0	5.41	0
6/6/2019 10:30	1.752	0	23089.26	0	5.41	0
6/6/2019 10:30	1.756	0	23098.218	0	5.42	0
6/6/2019 10:30	1.748	0	23104.327	0	5.4	0
6/6/2019 10:30	1.746	0	23113.352	0	5.39	0
6/6/2019 10:30	1.751	0	23123.815	0	5.41	0
6/6/2019 10:30	1.754	0	23134.579	0	5.42	0
6/6/2019 10:30	1.751	0	23139.123	0	5.41	0
6/6/2019 10:30	1.748	0	23149.825	0	5.4	0
6/6/2019 10:30	1.749	0	23158.892	0	5.4	0
6/6/2019 10:30	1.741	0	23164.993	0	5.38	0
6/6/2019 10:31	1.747	0	23173.896	0	5.4	0
6/6/2019 10:31	1.746	0	23184.513	0	5.39	0
6/6/2019 10:31	1.75	0	23195.156	0	5.4	0
6/6/2019 10:31	1.746	0	23199.688	0	5.39	0
6/6/2019 10:31	1.753	0	23210.352	0	5.41	0
6/6/2019 10:31	1.76	0	23219.448	0	5.43	0
6/6/2019 10:31	1.759	0	23225.701	0	5.43	0
6/6/2019 10:31	1.756	0	23234.783	0	5.42	0
6/6/2019 10:31	1.759	0	23245.546	0	5.43	0
6/6/2019 10:31	1.756	0	23256.096	0	5.42	0
6/6/2019 10:31	1.76	0	23260.648	0	5.43	0
6/6/2019 10:31	1.76	0	23271.38	0	5.44	0
6/6/2019 10:32	1.761	0	23280.461	0	5.44	0
6/6/2019 10:32	1.762	0	23291.285	0	5.44	0
6/6/2019 10:32	1.759	0	23295.853	0	5.43	0
6/6/2019 10:32	1.756	0	23306.641	0	5.42	0
6/6/2019 10:32	1.76	0	23317.379	0	5.44	0
6/6/2019 10:32	1.762	0	23326.382	0	5.44	0
6/6/2019 10:32	1.761	0	23332.537	0	5.44	0
6/6/2019 10:32	1.76	0	23341.555	0	5.43	0
6/6/2019 10:32	1.759	0	23352.229	0	5.43	0
6/6/2019 10:32	1.752	0	23356.76	0	5.41	0
6/6/2019 10:32	1.75	0	23367.456	0	5.4	0
6/6/2019 10:33	1.754	0	23378.195	0	5.42	0
6/6/2019 10:33	1.76	0	23387.281	0	5.43	0

Measurement Pg 213

6/6/2019 10:33	1.753	0	23393.513	0	5.41	0
6/6/2019 10:33	1.764	0	23402.498	0	5.45	0
6/6/2019 10:33	1.758	0	23413.2	0	5.43	0