

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-337261. Owner Allied Seed LLCPhone No. 208-466-6700Current address 9311 Highway 45, Nampa, ID 836862. Examiner's name Cody ParkerEXAM DATE April 27, 20183. Accompanied by Bent Zeyer

Email _____

Address _____

Relationship to permit holder lesseePhone No. 208-841-50014. Source Groundwater

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use None2. Other water rights with the same source and point of diversion None**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			NW	NW	12	01N	02W	Canyon	GPS, digital PLS

2. Place(s) of Use:

Method of determination aerial imagery, tax parcel spatial data, digital PLS

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	02W	12						26											26

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.

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
D0064424		40			6" mainline @ 90 psi

*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
None						

2. **Measurements:** _____

85 x 1/8" nozzles on three separate wheel lines. 90 psi @ well head when 2 lines run, 75 psi when all 3 lines run

E. NARRATIVE/REMARKS/COMMENTS

This permit authorizes 0.70 cfs from groundwater to irrigate up to 35 acres. Proof was submitted on April 15, 2014. I completed the field exam on April 27, 2018. I was not accompanied by anyone during the exam and the system was not running. I corresponded with Brent Zeyer after the exam to get the system specifications described below. Brent is the lessee who farms the land.

The point of diversion is an 8" well with metal tag no. D0064424. It is located at N 43 26'27.9" by W 116 31'59.5" in the NWNW of Sec 12, T01N, R02W, B.M. Water is diverted from the well using a 40-hp pump. Static water level is 200' BGS. When the owner runs all three of their wheel lines at once, the discharge pressure at the well head is 75 psi. Based on this information, the estimated max pump rate from the system is 0.63 cfs.

There is one short wheel line, and two longer ones. The short line has 25 1/8" nozzles, the longer have 30 nozzles of the same size. At 0.63 cfs (283 gpm), the flow rate from each nozzle is around 3.3 gpm which is achieved at a nozzle pressure of 55 psi. The recommended diversion rate for the license is the BU standard 0.52 cfs (@ 0.02 cfs/acre).

There are 26 acres of irrigation developed. The crop grown is alfalfa. Headgate requirement is 4.5 afa/acre. The recommended volume is 117 afa from the headgate requirement. The entire POU falls within the same QQ as the POD. There are no overlapping rights to irrigate the place of use. There are no other uses of the well.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

$$Q = (8.8 \times 0.7 \times 40) / (220 \text{ ft} + 2.31 \times 75 \text{ psi}) = 0.63 \text{ cfs}$$

- The pressure at the well head is 90 psi when 2 lines run and 75 psi when all 3 run. At 75 psi discharge pressure the well puts out 283 gpm (0.63 cfs). That means the 85 1/8-inch nozzles would need to put out an average of 3.3 gpm per head which is achieved at 55 psi nozzle pressure.

$$\text{BU Standard} = 26 \text{ acres} \times 0.02 \text{ cfs/acre} = 0.52 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 26 \text{ acres} \times 4.5 \text{ afa/acre} = 117 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.52 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 253.7 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 117 \text{ afa}$$

2. Volume Calculations for Other Uses:

No other uses

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Irrigation	03/15	11/15	0.52 cfs	117 afa
Totals:			0.52 cfs	117 afa

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature



Date

5-8-18

Reviewer



Date

5/8/18

SEAL

Right No. 63-33236

Beneficial Use Field Report System Diagram

WRA Cody Parker

Sec 1

Sec 2

Sec 12

Sec 11

01N02W

NWNW

Southside Blvd.

Power Butte Ln.

North Power Lateral

30 - 1/8" nozzles

30 - 1/8" nozzles

25 - 1/8" nozzles

26 Acres

Tag No. D0064424
8" dia., 370' deep
SWL @ 200'
40-hp pump to 6" main

6" steel mainline

3" risers to wheel lines

Legend

■ Irrigated acreage

----- Property boundary

0 0.0425 0.085 Miles

N

Pump Rate

$$Q = \frac{8.8 \times 0.7 \times 40 \text{ hp}}{220 \text{ ft} + 2.31(75 \text{ psi})}$$

$$Q = 0.63 \text{ cfs}$$

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63-33726

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

0 0.045 0.09 0.18 Miles



STATE OF IDAHO
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Picture Attachment



Figure 1 Metal tag no. for the 8" irrigation well.



Figure 2 The 6" steel mainline from the well.

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Picture Attachment



Figure 3 3" risers from the mainline to hook up to wheel lines.

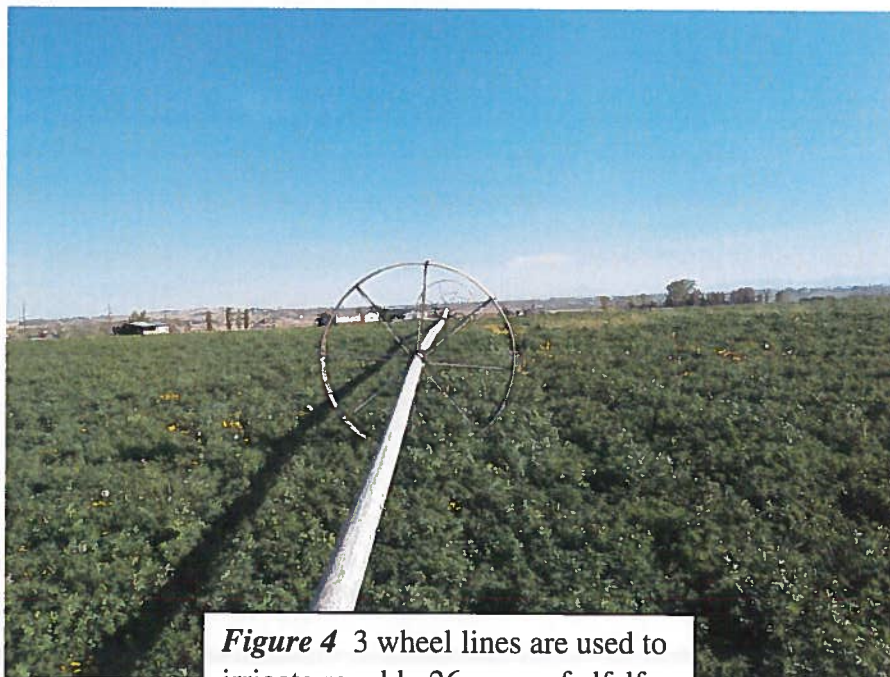


Figure 4 3 wheel lines are used to irrigate roughly 26 acres of alfalfa.

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Figure 5 A total of 85 sprinkler heads w/ 1/8" nozzles are distributed throughout the 3 wheel lines.

BENEFICIAL USE FIELD REPORT

01N02W12

Basin/Seq#	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total/Acres
63-136	BARKER	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-137B	BARKER	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-15634	BEUS LAI	GROUND	IRRIGATION																	
63-200A	BARKER	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	275
63-20487	BORAH P	GROUND	IRRIGATION	33	36	37	37	34		38	35									250
63-2106	UNITED S	FIVEMILE	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-233K	AMERICA	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2388A	UNITED S	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2392F	BOISE PR	WASTE W	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-251A	UNITED S	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-26671	BARKER	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-301A	UNITED S	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-302A	UNITED S	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33251	BOISE PR	INDIAN C	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33253	BOISE PR	TENNILE	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-3339A	BORAH P	GROUND	IRRIGATION	33	36	37	37	34		38	35									250
63-33726	ALLIED S	GROUND	IRRIGATION					26												26
63-372	BARKER	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-373A	UNITED S	BOISE R/I	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Surface water irrigation, no overlap for POU

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0064424

Drilling Permit No. 0023A3 006402Water right or injection well # 63-33726

2. OWNER

Name Zeyer, BrentAddress 7481 Murphy Rd.City Nampa State Id Zip 83686

3. WELL LOCATION:

Twp 1 North ☒ or South ☐ Rge 2 East ☐ or West ☒Sec. 12 NW 1/4 NW 1/4 1/4
10 acres 40 acres 160 acresGov't Lot _____ County CanyonLat. 43° 26.462 (Deg and Decimal minutes)Long 116° 31.989 (Deg and Decimal minutes)Address of Well Site 4842C Southside Blvd.City Melba

(Give at least name of road or distance to Road or Landmark)

Lot _____ Blk _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

Seal material	From (ft)	To (ft)	Quantity (lb or ft ³)	Placement method/procedure
Med Chips	0	44	1500 lbs	Poured

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
8"	+2	144	.250	Steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 144'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☐ Y ☒ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lb or ft ³)	Placement method

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 200' Static water level (ft) 200'Water temp. (°F) 58 Bottom hole temp. (°F) 58Describe access port Manufactured Plate

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
180	300	60

Test method:

Pump	Bailer	Air	Flowing artesian
☐	☐	☒	☐

Water Quality test or comments:

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water Y	N
12	0	2	Top Soil		X
12	2	6	Clay & Sand		X
12	6	88	Lava Rock		X
12	88	98	Brown Clay		X
12	98	138	Red Cinders		X
12	138	144	Lava		X
8	144	200	Lava		X
8	200	205	Cracks	X	
8	205	278	Lava		X
8	278	281	Cracks	X	
8	281	340	Lava		X
8	340	342	Cracks	X	
8	342	360	Lava		X
8	360	362	Lava W/ Cracks	X	
8	362	370	Lava		X

RECEIVED

JUL 01 2013

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable)

370'

Date: Started 5/13/2013Completed 5/30/2013

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Can-Ada Well Drilling & Pump Co. No. 304*Principal Driller Earl Skinner *Earl Skinner* Date 6/28/2013

*Driller _____ Date _____

*Operator II Brad Skinner *Brad Skinner* Date 6/28/2013

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 2, 2018

ALLIED SEED LLC
9311 HIGHWAY 45
NAMPA ID 83686

RE: Water right permit no. 63-33726

Dear Permit Holder:

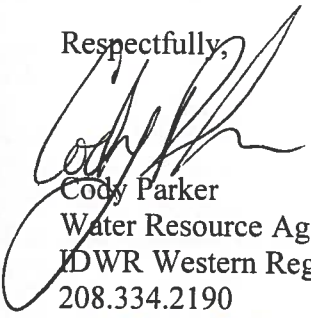
We are planning to conduct water right examinations in the vicinity of the permit referenced above **this season**. An examination is needed to verify the water use in order to issue a water right license.

The details of the permit referenced above can be found in the enclosed water permit report. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but you have ceased using the water and have no further interest in pursuing a water right, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

Please contact me within the next thirty (30) days at 208-334-2190 to either schedule an examination or submit a relinquishment form. If you do not make a timely response in this regard, action will be taken to void the permit.

Respectfully,


Cody Parker
Water Resource Agent
IDWR Western Region
208.334.2190
cody.parker@idwr.idaho.gov

Enclosed: Water right report and map
Relinquishment form