

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-15138
Exam Date: 07/18/2019

1. Current Owner:
KIRK CHANDLER 1227 DEVILS ELBOW RD WEISER ID 83672 OR
ALLIS CHANDLER 1227 DEVILS ELBOW RD WEISER ID 83672
2. Accompanied by:
Phone No:
Address:
Relationship to permit Holder:

3. **SOURCE:**
GROUND WATER

Method of Determination: Site visit, pictures of well in backfile

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
67-7446	Sheep Creek	Irrigation from Storage	Decreed
67-700	Sheep Creek	Irrigation	Decreed
67-701	Monroe Creek	Irrigation	Decreed
67-702	Monroe Creek/Sheep Creek	Irrigation	Decreed
67-703	Monroe Creek	Irrigation	Decreed
67-2357	Ground Water	Irrigation	Decreed

Comments: Overlapping surface water is primary irrigation use, 67-2357 provides additional groundwater from separate well

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

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 33, Twp 12N, Rge 05W, B.M. WASHINGTON County

Method of Determination: GPS, digital PLS map

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	
11N	05W	4	18 L1																18
12N	05W	33								19	36	0.7		0.2	7.4	28	2.1	33	126.4
12N	05W	34											2.6						2.6

Total Acres: 147

Method of Determination: Aerial imagery, digital PLS, site visit

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 ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0074515		20			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flow Meter	Inline	Lindsay	Growsmart			

2. Measurements:

Flow meter read 195 gpm while pump was running

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Permit = 4.44 cfs

Measurement = 0.43 cfs

BU Standard = 147 acres x 0.02 cfs/acre = 2.94 cfs

Exam Fee = 1.00 cfs

RECOMMEND 0.43 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 147 \text{ acres} \times 4.5 \text{ afa/acre} = 662 \text{ afa}$

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.43 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 222 \text{ afa}$

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \text{None, supplemental conditions address annual volume}$

2. Volume Calculations for Other Uses:

No other uses

G. NARRATIVE/REMARKS/COMMENTS

This permit was approved on November 12, 2015 authorizing the diversion of 4.44 cfs from groundwater to irrigate 259 acres. Proof of beneficial use was submitted on December 18, 2018. I completed this field exam on July 18, 2019.

The point of diversion is a 12-inch well with a metal tag no. D0074515. The well was drilled to 650 feet total depth and is a flowing artesian well. A 20-hp submersible pump set at 550 feet below ground surface diverts water to a 10-inch mainline. Water flows through the mainline to four separate pivots, to K-Line pods, and to a gated pipe at the southern end of the place of use. In total, the system irrigates 147 acres. A Lindsay Growsmart flow meter read 195 gpm (0.43 cfs) during the exam. The measuring device is a full profile magnetic flow meter of a type that has been approved by the Department. The owner says that the well cannot sustain much more flow than that for any significant period of time. The artesian pressure makes it difficult to estimate a theoretical rate.

The recommended diversion rate is limited by the rate measured at the exam. The recommended rate is less than half an inch-to-the-acre. However, the groundwater is used to supplement water from Sheep Creek under water rights 67-702, 67-7446, and 67-700 and from Monroe Creek: 67-701, 67-702, and 67-703. There is also an overlapping groundwater irrigation right from a separate well (67-2357). When all rights are combined (including this right), the owner has a sufficient supply to grow a crop on the 220.3 combined acres authorized by all of the rights. The total diversion rate authorized by all rights is 4.38 cfs. The owner also has irrigation storage to use (67-7446). An X35 condition will be added to limit the total acreage to 220.3.

This license will not have an annual volume stated because it is a supplemental water right; we do not want to give the impression that the full volume should be diverted from groundwater. Condition WB7 will limit the total combined volume to 661.5 afa for irrigation of the place of 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>Rate of Diversion</u>	
IRRIGATION	03/01 to 11/15	0.43 CFS	

Totals: 0.43 CFS

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

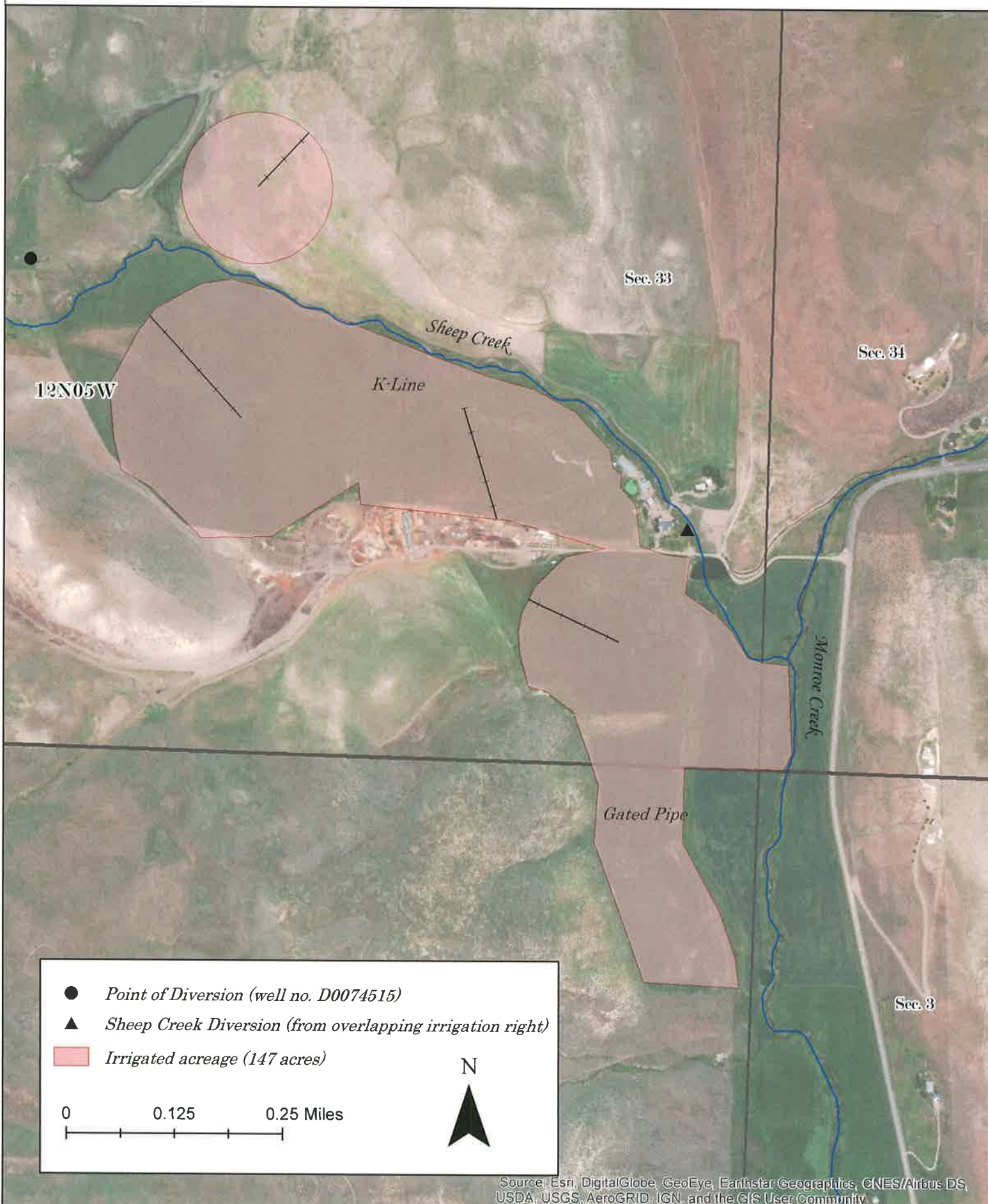
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION

Cody Parker - Water Resource Agent, Senior

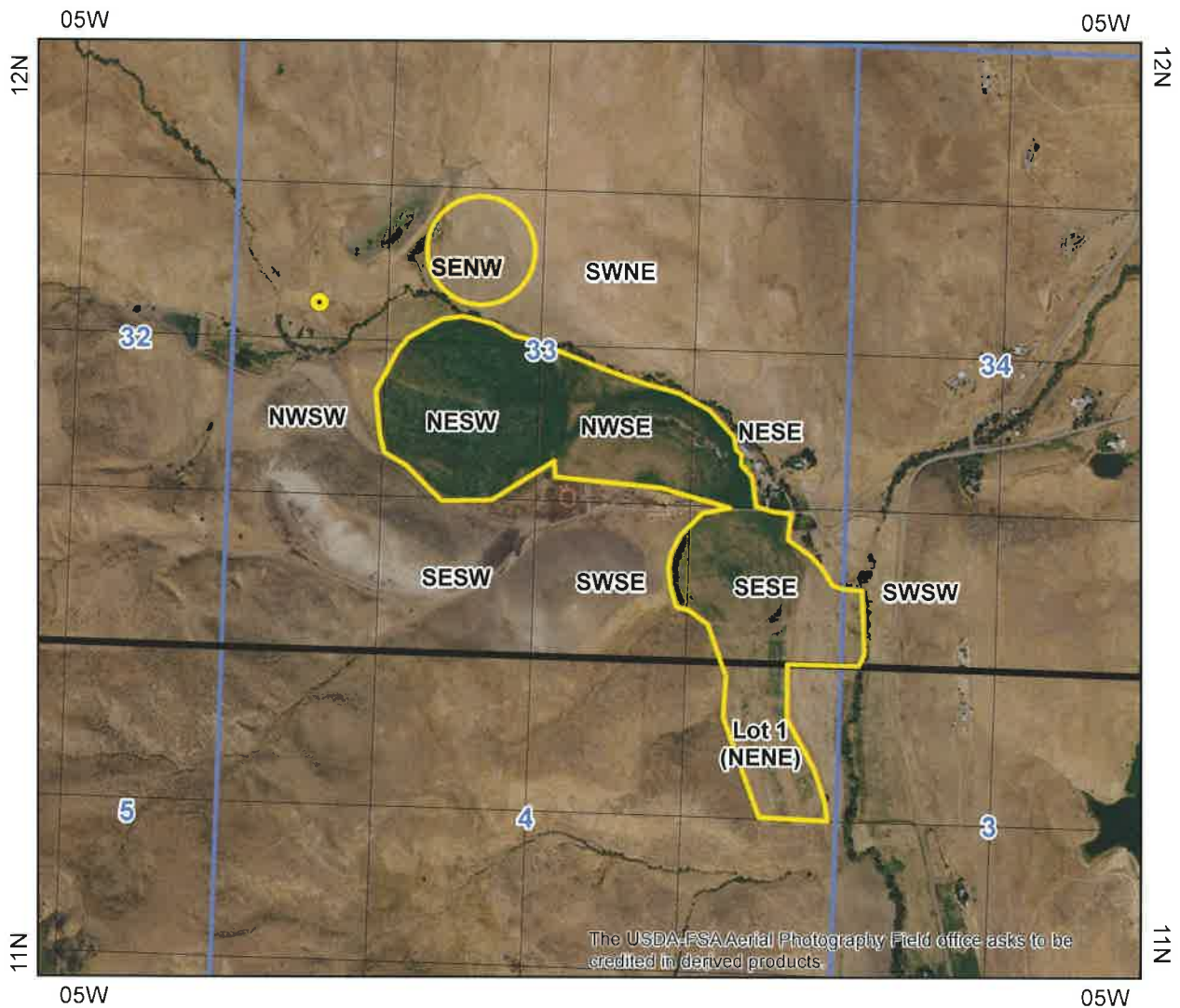
Field Examiner's Name Cody Parker Date 10-29-19

Reviewer Patricia Wiley Date 10-29-2019



State of Idaho
Department of Water Resources
Beneficial Use Field Report
67-15138

IRRIGATION



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

0 0.175 0.35 0.7 Miles





A 20 hp pump diverts water from this artesian well to a 10-inch mainline.



Just downstream of the well, a Lindsay GrowSmart inline flow meter is installed on a straight length of the 10-inch mainline. The flow stabilized at 195 gpm during the exam.

Picture Attachment

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

Right No. 67-15138



Looking down at the irrigated land
from the well head.

11N05W4

BasinSeq	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcrea
67-15138	CHANDL	GROUND	IRRIGATION	18																18
67-701	CHANDL	MONROE	IRRIGATION	4																4
67-702	CHANDL	MONROE	IRRIGATION	16																16
67-702	CHANDL	SHEEP C	IRRIGATION	16																16

12N05W33

BasinSeq	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcrea
67-15138	CHANDL	GROUND	IRRIGATION								19	36	0.7		0.2	7.4	28	2.1	33	126.4
67-2357	CHANDL	GROUND	IRRIGATION								5	30.7					14			49.7
67-700	CHANDL	SHEEP C	IRRIGATION						1		7.5	33	4				14		7	59.5
67-701	CHANDL	MONROE	IRRIGATION																	
67-702	CHANDL	MONROE	IRRIGATION													8	12	6	22	48
67-702	CHANDL	SHEEP C	IRRIGATION													8	12	6	22	48

12N05W34

BasinSeq	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcrea
67-14650	CARNIG	MONROE	IRRIGATION													10			21	31
67-14655	CARNIG	MANN CI	IRRIGATION													10			21	31
67-15138	CHANDL	GROUND	IRRIGATION											2.6						2.6
67-634	MONROE	MANN CI	IRRIGATION													X			X	
67-701	CHANDL	MONROE	IRRIGATION										1	3						4
67-703	CHANDL	MONROE	IRRIGATION										1	6						7
67-704	HARP, SE	MONROE	IRRIGATION		21	6														27
67-719	HARP, SE	MONROE	IRRIGATION																	27
67-720A	ALLEN, E	MONROE	IRRIGATION			4.8					8.2	7								20
67-720B	ALLEN, E	MONROE	IRRIGATION			16														16
67-720C	ALLEN, E	MONROE	IRRIGATION																	4
67-721A	ALLEN, E	MONROE	IRRIGATION								2.7	1.3								20
67-721B	ALLEN, E	MONROE	IRRIGATION			4.8					8.2	7								16
67-721C	ALLEN, E	MONROE	IRRIGATION			16					2.7	1.3								4
67-724	MONROE	MONROE	IRRIGATION													X			X	
67-7277	GANN, CI	UNNAME	IRRIGATION													10	1.5		21	32.5
67-7361	ALLEN, E	UNNAME	IRRIGATION									14								14

12N05W33

BasinSeq	Owner	Source
67-10265	CHANDLI	GROUND WATER
67-10267	CHANDLI	GROUND WATER
67-15138	CHANDLI	GROUND WATER
67-700	CHANDLI	SHEEP CREEK
67-702	CHANDLI	SHEEP CREEK

NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
												X			
											X				
						X									
						X									
												X			

Different source, no overlap

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0074515
Drilling Permit No. 881062
Water right or injection well # _____

2. OWNER: Kirk & Allie Chandler
Name _____
Address 1227 Devils Elbow rd
City Weiser State ID Zip 83672

3. WELL LOCATION:
Twp. 12 North ☒ or South ☐ Rge. 05 East ☐ or West ☒
Sec. 33 1/4 SW 1/4 SW 1/4
Gov't Lot _____ County Washington
Lat. 44 ° 20.009 (Deg. and Decimal minutes)
Long. 116 ° 57.033 (Deg. and Decimal minutes)
Address of Well Site Same

(Give at least name of road - Distance to Road or Landmark)
Lot _____ Blk. _____ Sub. Name _____

4. USE:
☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK:
☐ New well ☐ Replacement well ☒ Modify existing well
☐ Abandonment ☐ Other Doo 43000

6. DRILL METHOD:
☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
<u>Cement</u>	<u>0</u>	<u>460.6</u>	<u>yrd</u>	<u>pumped</u>

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
<u>10</u>	<u>+1</u>	<u>399</u>	<u>.375</u>	<u>steel</u>	☒	☐	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

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

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 (lbs or ft)	Placement method

11. FLOWING ARTESIAN:

Flowing Artesian? ☒ Y ☐ N Artesian Pressure (PSIG) 2
Describe control device Bolt on flange

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) _____ Static water level (ft) +2
Water temp. (°F) 65 Bottom hole temp. (°F) 85
Describe access port _____

Well test:			Test method:			
Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
<u>0</u>	<u>5</u>		☐	☐	☐	☒

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
			<u>Pulled 6" pipe opened</u>		
			<u>4" hole to 12" to 400</u>		
			<u>Installed 10" pipe drilled</u>		
			<u>10" to 640</u>		
<u>10"</u>	<u>410</u>	<u>510</u>	<u>Gray sand stone</u>		
<u>10"</u>	<u>500</u>	<u>527</u>	<u>Grky Sand Stone</u>		
<u>10</u>	<u>507</u>	<u>574</u>	<u>Sol. N Basalt</u>		
<u>10</u>	<u>579</u>	<u>594</u>	<u>Brown CLAY</u>		
<u>10</u>	<u>594</u>	<u>650</u>	<u>Black Basalt w/</u>		
			<u>dricks</u>		

RECEIVED

MAY 11 2017

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 650
Date Started: 11-29-16 Date Completed: 4-21-17

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 Treasure Valley Drilling Co. No. 5160
*Principal Driller [Signature] Date 4-25-17
*Driller [Signature] Date 4-25-17
*Operator II [Signature] Date 4-25-17
Operator I [Signature] Date 4-25-17
* Signature of Principal Driller and rig operator are required.

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0073000

Drilling Permit No. 973832-879889

Water right or injection well # 67-15138

2. OWNER: Kirk & Allis Chandler

Name _____

Address 1227 Devils Elbow Rd

City Weiser State Idaho Zip 83672

3. WELL LOCATION:

Twp. 12 North ☒ or South ☐ Rge. 5 East ☐ or West ☒
Sec. 33 10 acres 1/4 SW 1/4 NW 1/4

Gov't Lot _____ County Washington

Lat. 44 ° 20.009 (Deg. and Decimal minutes)

Long. 116 ° 57.033 (Deg. and Decimal minutes)

Address of Well Site out back of property

City Weiser

Lot. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☒ Other Test Hole

5. TYPE OF WORK:

☒ 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 (lbs or ft ³)	Placement method/procedure
Bentonite	0	45	1600	Overbore

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
12	1	176	.250	Steel	☒	☐	☐	☒
6	1.5	413	.250	Steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 176-12", 413-6"

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
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Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
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11. FLOWING ARTESIAN:

Flowing Artesian? ☒ Y ☐ N Artesian Pressure (PSIG) 0

Describe control device flanges, gauge, valve

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 28' Static water level (ft) 0

Water temp. (°F) 72-81 Bottom hole temp. (°F) _____

Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Batter	Air	Flowing artesian
unknown	100	1 hr	☐	☐	☒	☐

Test method:

Water quality test or comments: water perched, or slow recharge

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
18	0	7	Broken rock and Clay		
18	7	25	Brown Clay		
18	25	28	Blue Clay		
18	28	29	Gravel 2gpm	x	
18	29	45	Blue Clay		
12	45	176	Blue Clay		
12	176	186	Medium Black, Red Broken Rock 2g	x	
8	186	290	Medium Black, Red Broken Rock	x	
8	290	310	Black Broken Rock		
8	310	345	Sandstone conglomerate blue soap stone, black rock		
8	345	413	Black and Green Broken Rock with Quartz		
6	413	455	Black and Green Broken Rock with Quartz 10 gpm	x	
6	455	460	Grey Sand Stone 100 gpm	x	

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MAR 29 2017

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable) 460 J stopped

Date Started: Sep 6, 2016

Date Completed: 10/25/2016

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 Dallas Drilling

Co. No. 445

*Principal Driller [Signature] Date 3/23/17

*Driller _____ Date _____

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.