

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
JUL 14 2014
DEPARTMENT OF
WATER RESOURCES

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. 63-33073

1. Owner Lavar Thornton Phone No. 208-922-5779
Current address 2800 Forrey Rd, Kuna ID 83634
2. Examiner's name Scott N. King EXAM DATE June 26, 2014
3. Accompanied by Lavar Thornton Email _____
Address _____
Relationship to permit holder same Phone No. _____
4. Source Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use 63-3469, 63-7154, 63-7247 and 63-11602
2. Other water rights with the same source and point of diversion 63-3469, 63-7154, 63-7247, 63-11602 and 63-33075

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks
1			NE	SE	34	2N	1W	Ada	Field Exam, 2013 Aerial Photo
2			NE	SE	34	2N	1W	Ada	Field Exam, 2013 Aerial Photo
3			SW	SE	34	2N	1W	Ada	Field Exam, 2013 Aerial Photo

2. Place(s) of Use: Method of determination Field Exam, 2013 Aerial Photo

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
2N	1W	34			36	40				12	28			20	40	39	21		*236
					36	39				9.4	28			20	37	39	17		**225.4

*Recommended PPU consistent with overlapping rights.

**Recommended acres irrigated within PPU.

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
Well 1	US Motors	100	1404580	LB	44452, 8-inch
Well 2	US Motors	75	3464576	Well Line	8-inch
Well 3	US Motors	100	1404522	Well Line	T77446A

*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
Portable Flowmeter	Ultrasonic	GE	PT878	7140	various	March 17, 2014

2. **Measurements:** _____

Well 1: Department previously measured capacity at 2.44 cfs (annubar).

Well 2: Department previously measured capacity at 1.36 cfs (theoretical). Examiner measured 1.18 cfs.

Well 3: Examiner measured 2.11 cfs.

E. NARRATIVE/REMARKS/COMMENTS

Well 1 is equipped with the same pump and motor licensed under overlapping water rights 63-3469, 63-7154 and 63-7247. System capacity for Well 1 was measured and licensed for 2.44 cfs for 203 acres irrigation under rights 63-3469, 63-7154 and 63-7247 when combined. Well 2 is equipped with the same pump and motor licensed under overlapping water right 63-11602. Based on a prior determination, system capacity for Well 2 is 1.36 cfs, of which 0.24 cfs was licensed for 12 acres irrigation under right 63-11602. Well 3 is new, authorized permits 63-33073 and 63-33075. Together, the three wells serve an interconnected system of pivots, wheel lines and hand lines.

Transfer 73899 authorized four rights (63-3469, 63-7154, 63-7247 and 63-11602) for use in a 236-acre PPU. During transfer review, 2.7 acres were found forfeited in the SENW under water right 63-11602. Consequently, 203 acres at 0.012 cfs/acre (2.44 cfs) are authorized by 63-3469, 63-7154 & 63-7247 at full volume and right 63-11602 authorizes 9.3 acres at 0.02 cfs/acre (0.19 cfs) at full volume from Wells 1 & 2.

Permit 63-33073 is conditioned that when combined with 63-3469, 63-7154, 63-7247 & 63-11602, the rights are together limited to a total of 236 acres irrigation and diversion of 4.72 cfs. This examination finds 225.4 acres irrigated within the 236-acre PPU. System capacity is 5.91 cfs. Therefore, this examiner recommends 63-33073 be licensed for 216.1 acres, 1.88 cfs and 63 afa based on 203 acres at 1.62 cfs (bringing the duty to 0.02 cfs per acre for the 203 acres authorized by 63-3469, 63-7154 and 63-7247) and 13.1 new acres at 0.26 cfs (0.02 cfs per acre).

Wells 1, 2 and 3 also supply Permit 63-33075, which authorizes 1.6 cfs for irrigation of 80 acres, was examined at the same time as permit 63-33073. The examination identified 65 irrigated acres developed under permit 63-33075, which can be licensed at the standard duty of 0.02 cfs/acre (1.3 cfs).

Summary:

63-3469, 63-7154, 63-7247 & 63-11602 provide 2.63 cfs and 955.4 afy for irrigation of 212.3 acres.

63-33073 is recommended to be licensed at 1.88 cfs and 59 afa for 216.1 acres. When combined with 63-3469, 63-7154, 63-7247 & 63-11602, the rights together provide 4.51 cfs and 1,014.4 afy for irrigation of 225.4 acres.

Permit 63-33075 is recommended to be licensed at 1.3 cfs and 292.5 afa for irrigation of 65 acres.

The total flow of all rights above ($2.63 + 1.88 + 1.3 = 5.81$ cfs) is less than the system capacity of 5.91 cfs.

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?

[illegible]

F. FLOW CALCULATIONS

☒ Additional computation sheets attached

Measured Method:

See section D.2. referencing prior flow determinations for Wells 1 & 2 totaling 3.8 cfs. Examiner measured 2.11 cfs for the new Well #3 bringing the total system capacity to 5.91 cfs.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 13.1 \times 4.5 = 59.0 \text{ afa}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.26 \times 260 \times 1.9835 = 134.1 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 59.0 \text{ afa}$$

2. Volume Calculations for Other Uses:

none

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Irrigation	3/1	12/31	1.88 cfs	63.0 afa
Totals:			1.88 cfs	63.0 afa

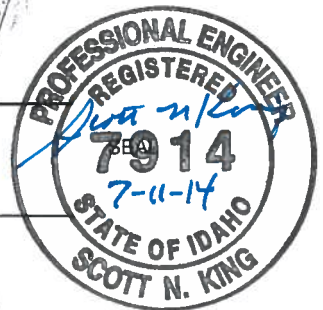
2. Recommended Amendments

- ☐ 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 [Signature] Date July 11, 2014

Reviewer _____ Date _____



ATTACHMENT A

PERMIT RECORD AND PROOF OF BENEFICIAL USE

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-33073

Priority: July 14, 2008

Maximum Diversion Rate: 2.06 CFS

This is to certify, that LAVAR THORNTON
2800 S TEN MILE RD
KUNA ID 83634

has applied for a permit to appropriate water from:

Source: GROUND WATER

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
IRRIGATION	03/01 to 11/15	2.06 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	NE1/4SE1/4	Sec. 34, Twp 02N, Rge 01W, B.M., ADA County
GROUND WATER	NE1/4SE1/4	Sec. 34, Twp 02N, Rge 01W, B.M., ADA County
GROUND WATER	SW1/4SE1/4	Sec. 34, Twp 02N, Rge 01W, B.M., ADA County

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	
02N 01W 34			36.0	40.0				12.0	28.0				20.0	40.0	39.0	21.0	236.0

Total Acres: 236

CONDITIONS OF APPROVAL

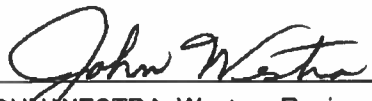
1. Proof of application of water to beneficial use shall be submitted on or before **August 01, 2014**.
2. Subject to all prior water rights.
3. When combined with 63-3469, 63-7154, 63-7247, 63-11602, this right is limited to 236 acres and 4.72 cfs
4. Right No.(s) 63-3469, 63-7154, 63-7247 & 63-11602 together are limited to 212.3 acres and 4.3 cfs.
5. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-33073

6. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
7. This right does not grant any right-of-way or easement across the land of another.
8. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the lands above.
9. The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this 27th day of July, 2009.



JOHN WESTRA, Western Regional Manager

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY

Amt. of Fee \$: _____
Receipt No. _____
Receipt By: _____
Date Received: _____

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been **completed and** that water has been applied to beneficial use to the extent described below. **This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner.** Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, please contact any Department office or visit the Department's website at: www.idwr.idaho.gov for an *Assignment of Permit* form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

1. Permit No.: 63-33073 Telephone No.: 208-922-5779

2. Name of Permit Holder(s): Lavar Thornton

3. Mailing Address: 2800 Forrey Rd City: Kuna

State: ID Zip: 83634 Email: _____

4. Source of Water: Ground Water If **GROUND WATER** (well), Date Drilled: mo. _____ / yr. _____

Well Driller: See attached Drilling Permit Number: _____

5. Extent of use(s) completed (as authorized by the water right permit):

Domestic (No. of households): _____ Stockwater (No. and type of stock): _____

Irrigation (No. of acres): 237 Other: _____

6. Total rate of diversion or storage volume for which proof is submitted: 2.06 cfs OR _____ acre-feet.

7. Compliance with a measuring device requirement, lockable controlling device requirement, and/or other conditions of permit: **Refer to the approval conditions on your permit and respond accordingly. The Department will not issue a license if permit conditions are not met.**

Measuring Device: Is a measuring device required?

If yes, has the measuring device been installed?

Yes ☐	No ☒
Yes ☐	No ☐

Lockable Controlling Device: Is a lockable device required to control the diversion?

If yes, has the lockable device been installed?

Yes ☐	No ☒
Yes ☐	No ☐

Other Conditions of Permit: Do the approval conditions on your permit require you to submit additional information in connection with your proof of beneficial use? If yes, list the conditions below and attach documents with the required information.

_____ Completed? Yes ☐ No ☒

8. Fee Enclosed: \$ n/a See fee schedule on back of the instructions for filing proof of beneficial use.
Proofs filed without an appropriate fee, will be considered incomplete.

9. Person to contact to accompany the Department representative during field examination of the water system.

Name: _____ Telephone Number: _____

Mailing Address: _____ City: _____

State: _____ Zip: _____ Email: _____

The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of permit holder: _____

(Include your title, if on behalf of company or organization)

Date: 6/26/14

Mail to: Idaho Department of Water Resources, PO Box 83720, Boise, ID 83720-0098

ATTACHMENT B
WELL DRILLERS REPORTS

4. Information for wells serving Permits 63-33073 & 63-33075:

Well 1: Drilled 5/17/1967 by Jesse Doty under Drilling Permit No. G325341

Well 2: Drilled 4/22/1992 by Johnston Drilling under Drilling Permit No. 63-92-W-024-000
Deepened 3/23/1994 by Johnston drilling under Drilling Permit No. 63-94-W-0011-001

Well 3: Drilled 5/15/2012 by Johnston Drilling under Drilling Permit No. 913925-862604

REPORT OF WELL DRILLER

State of Idaho

Location Corrected by IDWR To:

T02N R01W Sec. 34 SENESE

By: mciscell 2012-03-12

State law requires that this report shall be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER:

Name Forrey BrothersAddress Nampa IdahoRoute 3#Owner's Permit No. 2 325341NATURE OF WORK (check): Replacement well ☐New well ☒ Deepened ☐ Abandoned ☐Water is to be used for: IrrigationMETHOD OF CONSTRUCTION: Rotary ☐ Cable ☒Dug ☐ Other ☐

(explain)

CASING SCHEDULE: Threaded ☐ Welded ☒14 "Diam. from 17 ft. to 256 ft.100 "Diam. from 242 9/16 ft. to 352 9/16 ft."Diam. from ft. to ft."Diam. from ft. to ft.Thickness of casing: .025 Material:Steel ☒ concrete ☐ wood ☐ other ☐

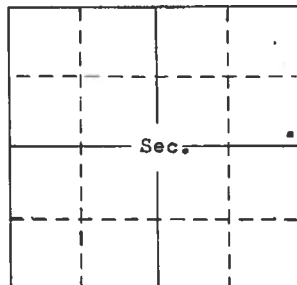
(explain)

PERFORATED? Yes ☒ No ☐ Type ofperforator used: factory perforatedSize of perforations: 2 1/2 " by 3/16 "perforations from 258 ft. to 352 ft.perforations from ft. to ft.perforations from ft. to ft.perforations from ft. to ft.WAS SCREEN INSTALLED? Yes ☐ No ☒

Manufacturer's name

Type Model No. Diam. Slot size Set from ft. to ft.Diam. Slot size Set from ft. to ft.CONSTRUCTION: Well gravel packed? Yes ☒No ☐ size of gravel 3/8 Gravelplaced from 256 ft. to 351 ft. Surface sealprovided? Yes ☐ No ☒ To what depth? ft. Material used in seal:Cement slab around casing at ground levelDid any strata contain unusable water? Yes ☐No ☒ Type of water:Depth of strata ft. Method of sealingstrata off: Surface casing used? Yes ☐ No ☒Cemented in place? Yes ☐ No ☐

Locate well in section



LOCATION OF WELL: County ada
S.E. 1/4 Sec. 20 T. 2 N. R. 1 W/W

Use other side for additional remarks

Size of drilled hole: 22 in ^{2 1/2 in} ~~Rock~~ Total
 depth of well: 352 Standing water
 level below ground: 184 Temp.

Fahr. ° Test delivery: 1500 gpmor cfs Pump? ☐ Bail ☐

Size of pump and motor used to make test:

12 in bowls - 8 in columnLength of time of test: 18 Hrs. Min.Drawdown: 40 ft. Artesian pressure: ft.above land surface Give flow cfsor gpm. Shutoff pressure:Controlled by: Valve ☐ Cap ☐ Plug ☐No control ☐ Does well leak around casing?Yes ☐ No ☐

DEPTH MATERIAL 31421 WATER
 FROM TO YES OR NO

FEET	FEET		
0	1	top soil	"
1	3	hard pan	"
3	10	broken rock	"
10	20	grey basalt	"
20	24	black lava - broken	"
24	28	black cinders	"
28	38	black lava broken	"
38	48	grey basalt	"
48	52	black lava - crevassed	"
52	55	cinders	"
55	62	black lava	"
62	67	red cinders	"
67	74	lava - crevassed	"
74	79	cinders broken rock	"
79	87	lava - crevassed	"
87	98	cinders - blocks	"
98	105	black lava - crevassed	"
105	110	" " soft	"
110	117	brown sandy clay	"
117	125	black lava - crevassed	"
125	140	red lava - crevassed	"
140	157	grey basalt	"
157	162	blown clay	"
162	167	large gravel	"
167	199	sand - sandgravel clay binder	"
199	204	sand gravel	yes
204	217	sand	"
217	221	clay	no
221	233	sandy clay	no
233	263	sand & clay layers	yes
263	273	fine sand	"
273	294	med. sand	"
294	312	clay + silt - layers	no
312	320	blown clay	no
320	327	blue clay	"
327	330	brown clay	"
330	351	sand	yes
351	353	clay yellow	no

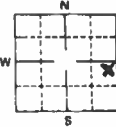
Work started: Jan 3-67Work finished: May 17-67

Well Driller's Statement: This well was
 drilled under my supervision and this report
 is true to the best of my knowledge.

Name: Jesse J. BlattyAddress: Rt 3# Caldwell IdahoSigned by: Jesse J. BlattyLicense No. 140Date: June 7-67

USGS USGS

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Lavar K. Thornton</u> Address <u>Rt 2 Kuna Id 83634</u> Drilling Permit No. <u>63-92-W-024-000</u> Water Right Permit No. <u>63-11602</u> <u>Well duplicated see 63-94-W-0011-100</u>	7. WATER LEVEL Static water level <u>181</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>56</u> °F. Quality <u>good</u> Describe artesian or temperature zones below.																																																																																																																																																																																								
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Modification ☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)	8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td><u>450</u></td><td><u>250</u></td><td><u>3</u></td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Discharge G.P.M.	Pumping Level	Hours Pumped	<u>450</u>	<u>250</u>	<u>3</u>																																																																																																																																																																																		
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <u>082014</u> <table border="1"><thead><tr><th rowspan="2">Bore Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>20</td><td>0</td><td>20</td><td>TURSOIL</td><td></td><td></td></tr><tr><td>20</td><td>20</td><td>25</td><td>BROKEN BASALT</td><td></td><td></td></tr><tr><td>20</td><td>25</td><td>26</td><td>SOLID BASALT</td><td></td><td></td></tr><tr><td>16</td><td>26</td><td>44</td><td>BROKEN LOOSE ROCK</td><td></td><td></td></tr><tr><td>4</td><td>44</td><td>45</td><td>HARD BASALT</td><td></td><td></td></tr><tr><td>4</td><td>45</td><td>50</td><td>~~BROKEN BASALT~~ BROKEN BASALT</td><td></td><td></td></tr><tr><td>4</td><td>50</td><td>52</td><td>CINDERS BLACK</td><td></td><td></td></tr><tr><td>4</td><td>52</td><td>53</td><td>BLACK BASALT</td><td></td><td></td></tr><tr><td>4</td><td>53</td><td>57</td><td>BROKEN RED BASALT</td><td></td><td></td></tr><tr><td>4</td><td>57</td><td>68</td><td>BLACK CINDERS</td><td></td><td></td></tr><tr><td>4</td><td>68</td><td>70</td><td>HARD BASALT</td><td></td><td></td></tr><tr><td>4</td><td>70</td><td>74</td><td>BLACK BASALT</td><td></td><td></td></tr><tr><td>4</td><td>74</td><td>75</td><td>BLACK CINDERS</td><td></td><td></td></tr><tr><td>4</td><td>75</td><td>83</td><td>BROKEN BASALT</td><td></td><td></td></tr><tr><td>4</td><td>83</td><td>92</td><td>HARD BASALT</td><td></td><td></td></tr><tr><td>4</td><td>92</td><td>98</td><td>BROWN CINDERS</td><td></td><td></td></tr><tr><td>4</td><td>98</td><td>113</td><td>BLACK BASALT</td><td></td><td></td></tr><tr><td>4</td><td>113</td><td>124</td><td>BROKEN LOOSE BASALT</td><td></td><td></td></tr><tr><td>4</td><td>124</td><td>143</td><td>BLACK BASALT</td><td></td><td></td></tr><tr><td>4</td><td>143</td><td>147</td><td>SOFT BASALT</td><td></td><td></td></tr><tr><td>16</td><td>147</td><td>154</td><td>RED BASALT</td><td></td><td></td></tr><tr><td>12</td><td>154</td><td>184</td><td>RED GRAVEL-TURNING YELLOW</td><td></td><td>X</td></tr><tr><td>4</td><td>184</td><td>200</td><td>YELLOW GRAVEL CLAY</td><td></td><td></td></tr><tr><td>4</td><td>200</td><td>213</td><td>YELLOW SAND - 0.20</td><td></td><td>X</td></tr><tr><td>4</td><td>213</td><td>228</td><td>SANDY YELLOW CLAY</td><td></td><td>X</td></tr><tr><td>4</td><td>228</td><td>250</td><td>BROWN SAND</td><td></td><td>X</td></tr><tr><td>4</td><td>250</td><td>272</td><td>BROWN AND GOLD SAND - 0.20</td><td></td><td>X</td></tr><tr><td>4</td><td>272</td><td>300</td><td>WHITE CLAY</td><td></td><td></td></tr><tr><td>12</td><td>300</td><td>315</td><td>WHITE SAND - 0.25</td><td></td><td>X</td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	20	0	20	TURSOIL			20	20	25	BROKEN BASALT			20	25	26	SOLID BASALT			16	26	44	BROKEN LOOSE ROCK			4	44	45	HARD BASALT			4	45	50	~~BROKEN BASALT~~ BROKEN BASALT			4	50	52	CINDERS BLACK			4	52	53	BLACK BASALT			4	53	57	BROKEN RED BASALT			4	57	68	BLACK CINDERS			4	68	70	HARD BASALT			4	70	74	BLACK BASALT			4	74	75	BLACK CINDERS			4	75	83	BROKEN BASALT			4	83	92	HARD BASALT			4	92	98	BROWN CINDERS			4	98	113	BLACK BASALT			4	113	124	BROKEN LOOSE BASALT			4	124	143	BLACK BASALT			4	143	147	SOFT BASALT			16	147	154	RED BASALT			12	154	184	RED GRAVEL-TURNING YELLOW		X	4	184	200	YELLOW GRAVEL CLAY			4	200	213	YELLOW SAND - 0.20		X	4	213	228	SANDY YELLOW CLAY		X	4	228	250	BROWN SAND		X	4	250	272	BROWN AND GOLD SAND - 0.20		X	4	272	300	WHITE CLAY			12	300	315	WHITE SAND - 0.25		X
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5. WELL CONSTRUCTION Casing schedule: ☐ Steel ☐ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>250</u> inches</td><td><u>16</u> inches</td><td><u>1</u> feet</td><td><u>26</u> feet</td></tr><tr><td><u>250</u> inches</td><td><u>12</u> inches</td><td><u>1</u> feet</td><td><u>315</u> feet</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table> Was casing drive shoe used? ☒ Yes ☐ No <u>ON 12"</u> Was a packer or seal used? ☐ Yes ☒ No Perforated? ☒ Yes ☐ No How perforated? ☒ Factory ☐ Knife ☒ Torch ☐ Gun Size of perforation? <u>1/16</u> inches by <u>6</u> inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>1200</u> perforations</td><td><u>200</u> feet</td><td><u>300</u> feet</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table> Well screen installed? ☐ Yes ☒ No Manufacturer _____ Type _____ Top Packer or Headpipe _____ Bottom of Tailpipe _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☐ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>26</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☒ Puddling clay Sealing procedure used: ☐ Slurry pit ☒ Overbore to seal depth ☐ Temp. surface casing ☐ Threaded ☒ Welded Method of joining casing: ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>2" pipe 10' to 12" casing</u>	Thickness	Diameter	From	To	<u>250</u> inches	<u>16</u> inches	<u>1</u> feet	<u>26</u> feet	<u>250</u> inches	<u>12</u> inches	<u>1</u> feet	<u>315</u> feet					Number	From	To	<u>1200</u> perforations	<u>200</u> feet	<u>300</u> feet																																																																																																																																																																			
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>ADA</u> <u>NE 1/4 SE 1/4</u> Sec. <u>34</u> , T. <u>2</u> N ☒ S ☐ R. <u>1</u> E ☐ W ☒	11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Johnston Drilling</u> Firm No. <u>92</u> Address <u>3726 Southside Blvd</u> Date <u>MAY 19 92</u> Signed by Drilling Supervisor <u>E O Johnston</u> and (Operator) <u>Sam Johnston</u> (If different than the Drilling Supervisor)																																																																																																																																																																																								

(Sign once if Firm Official & Operator)

Form 238-7
6/07IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

PAGE 1

1. WELL TAG NO. D0060362Drilling Permit No. 913975-862604Water right or injection well # 63-33073, 63-33075

2. OWNER:

Name LAVAR THORNTONAddress 2800 S. Ten Mile Rd.City Kuna State 10 Zip 83634

3. WELL LOCATION:

Twp. 2 North ☒ or South ☐ Rge. 1 East ☐ or West ☒Sec. 34 NE 1/4 SW 1/4 SE 1/4Gov't Lot _____ County AdaLat. 43 ° 27.765 (Deg. and Decimal minutes)Long. 116 ° 26.322 (Deg. and Decimal minutes)Address of Well Site 2300' W of Kuna-Road 1 Ten Mile intersectionthen road N of Kuna-Road 4 City Kuna
(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 _____

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 #5	0	50	3200 lbs	overturn-dry pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing, Liner	Threaded	Welded
16	2	300	1/4	steel	☒	☐	☒
12	295	400	1/4	steel	☐	☒	☒
10	394	475	1/4	steel	☐	☒	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 300 - 400 - 475

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method 16" - Lucas, 12" - Lucas, 10" - TorchManufactured screen ☐ Y ☒ N Type _____Method of installation Driven

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
190	295	3"x.90	3360	16"	steel	1/4
295	395	3"x.90	3200	12"	steel	1/4
396	470	6"x.1/2"	888	10"	steel	1/4

Length of Headpipe 5', 0, 2' Length of Tailpipe 5, 1', 5'Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs 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) 171' Static water level (ft) 171'Water temp. (°F) 65 Bottom hole temp. (°F) 65°Describe access port 1 1/2 pipe welded into casing

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (hrs)
<u>33'</u>	<u>1100</u>	<u>16 HRS.</u>

Test method:

Pump ☒ Bailer ☐ Air ☐ Flowing artesian ☐Water quality test or comments: good

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
22	0	20	TOPSOIL		
20	20	40	Basalt black		
	40	43	clinders		
	43	80	Basalt		
	80	87	clinders - ash		
	87	129	Basalt		
	129	133	Ash - tan		
20	133	138	CLINDERS - ASH		
16	138	168	Gravel		
	168	188	Yellow sandy clay		
	188	200	clay - white		
	200	211	clay - sandy		
	211	220	sand - brown silty - runs in		
	220	240	brown sand		
	240	246	clay - blue/white		
	246	250	sand		
	250	264	clay - 2' sand layer		
	264	267	sand		
	267	269	clay		
	269	270	sand		
	270	287	clay sticky		
16	287	300	sand brown		
12	300	314	sand brown / white		
	314	326	clay white		
	326	341	sand and clay layers		
	341	350	sand		
	350	361	sand & clay layers		
	361	376	clay white		
	376	379	sand brown gravel		
	379	394	clay white		
	394	398	clay - gray - sticky		
12	398	400	sand white sand		

Completed Depth (Measurable):

Date Started: Dec 15 2011 Date Completed: May 15 2012

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 Johnson Drilling Co. Co. No. 92*Principal Driller Dean Johnson Date JUN 9 2012*Driller Dean Johnson Date JUN 9 2012

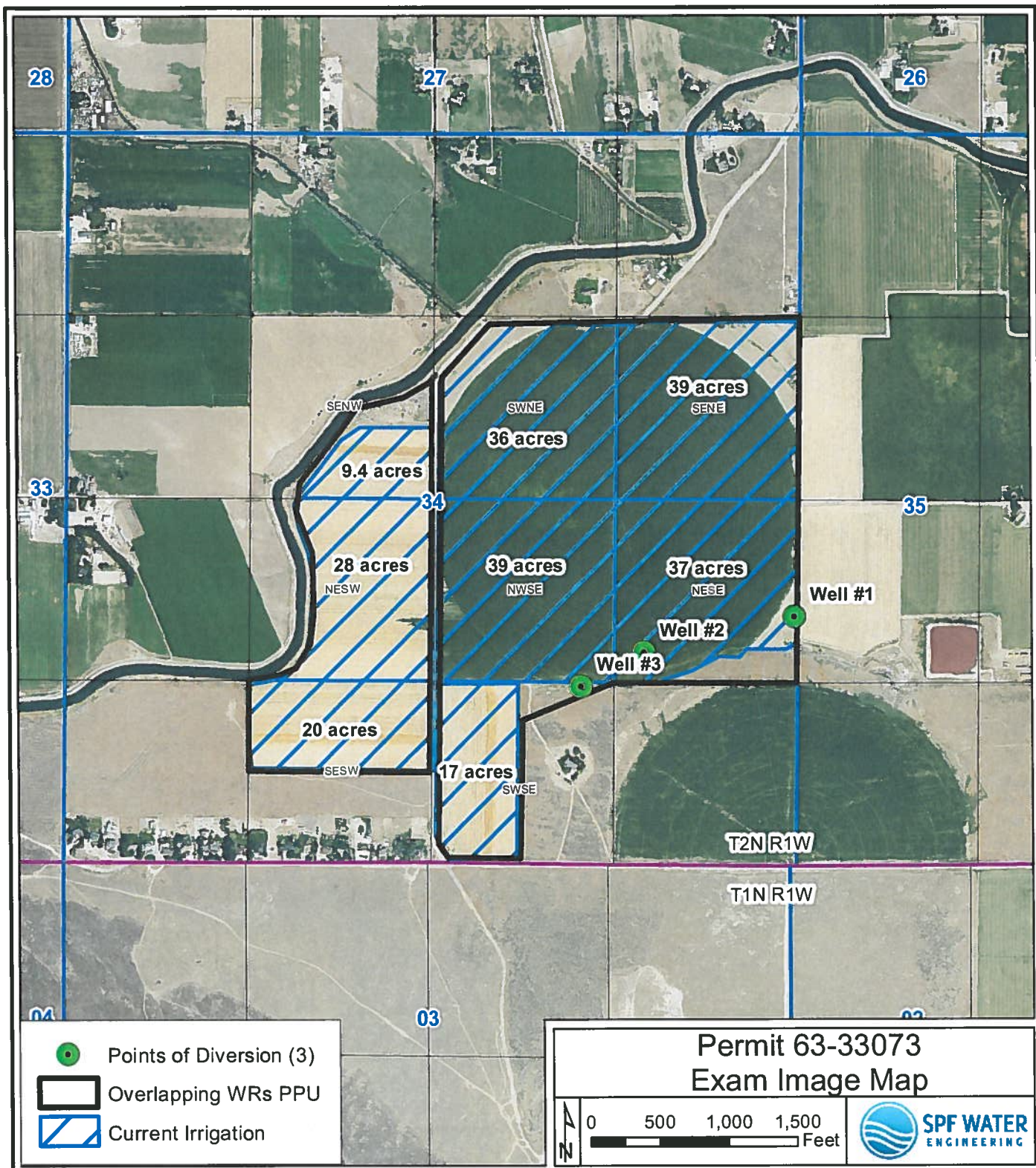
*Operator I _____ Date _____

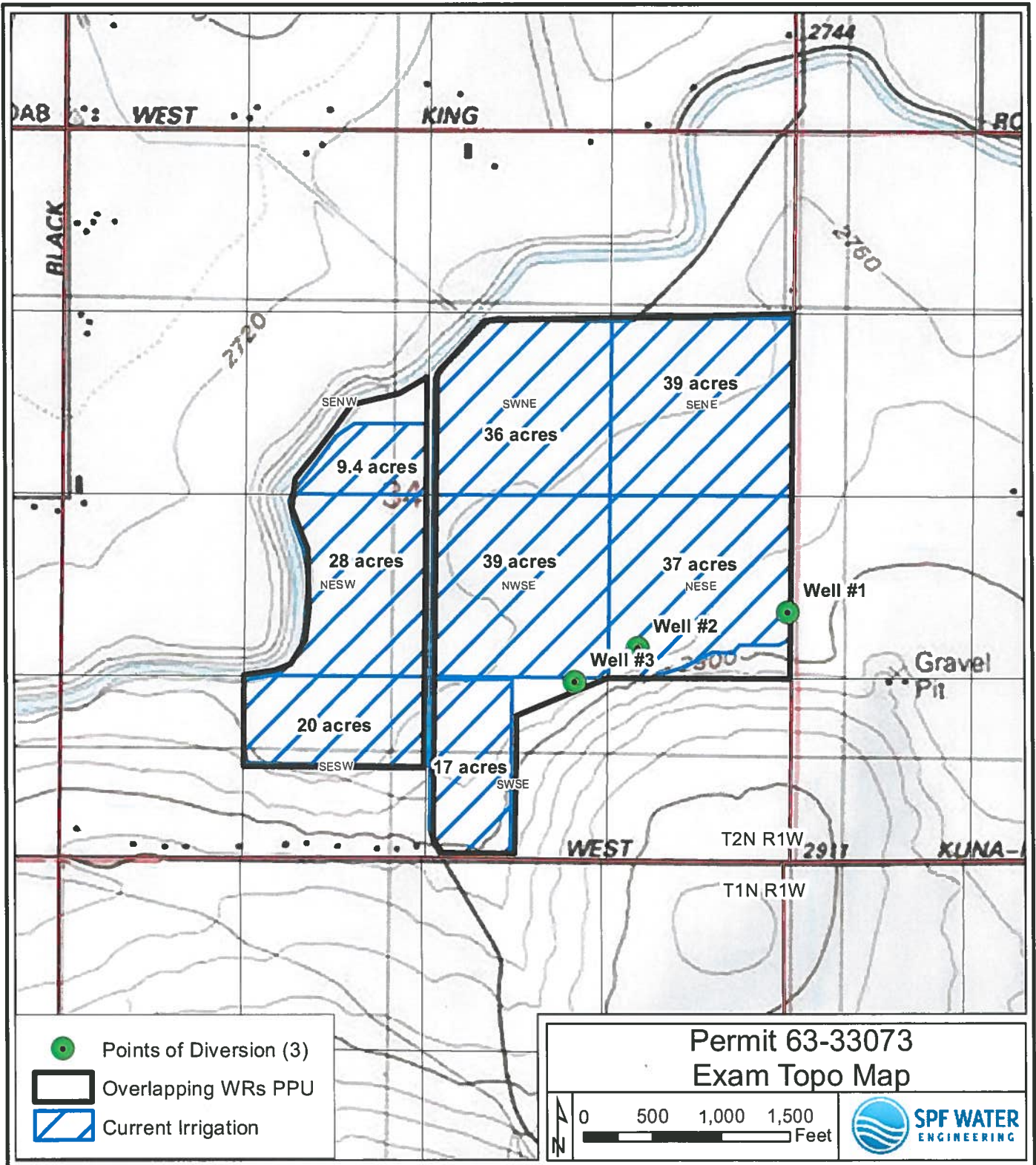
Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

ATTACHMENT C

2013 AERIAL PHOTO AND TOPO MAP





ATTACHMENT D
PHOTOS



Figure 1: Well #1 facing southerly to a 1/2-pivot on the hill developed under permit 63-33073.



Figure 2: Well #1 facing northerly. Place of use on photo left.



Figure 3: Well #2.



Figure 4: Well #2 facing easterly towards Well #1.



Figure 5: At Well #2 facing westerly towards Well 3 (on photo left).



Figure 6: Well #3.



Figure 7: At Well #3 facing westerly toward field irrigated with wheel lines.



Figure 8: At Well #3 facing northerly towards full-circle center pivot.

ATTACHMENT E
FLOW MEASUREMENT LOGS

Permit: 63-33073 & 63-33075
 Owner: Lavar Thornton
 Site Name: Well #2
 POD Location: T2N R1W Section 34 NESE
 Tag No: unknown
 Meter: GE TransPort PT878
 Type: Portable Ultrasonic Time Flight Liquid Flow Meter
 Serial Number: 7140
 Calibration Date: March 17, 2014
 Operator: Scott King

Date/Time	Volume (gal/m)	(+)Total (gal)	(-)Total (gal)	Error #
6/26/2014 13:46:02	531	810	0	0
6/26/2014 13:47:02	534	1338	0	0
6/26/2014 13:48:02	533	1875	0	0
6/26/2014 13:49:02	532	2403	0	0
6/26/2014 13:50:02	534	2930	0	0
6/26/2014 13:51:02	532	3467	0	0
6/26/2014 13:52:04	533	4022	0	0
6/26/2014 13:53:02	536	4527	0	0
6/26/2014 13:54:02	532	5065	0	0
6/26/2014 13:55:03	533	5619	0	0
6/26/2014 13:56:02	535	6122	0	0

Time	10 minutes
Volume	5313 gallons
Rate	531 gpm
Rate	1.18 cfs

Permit: 63-33073 & 63-33075
 Owner: Lavar Thornton
 Site Name: Well #3
 POD Location: T2N R1W Section 34 SWSE
 Tag No: D0060362
 Meter: GE TransPort PT878
 Type: Portable Ultrasonic Time Flight Liquid Flow Meter
 Serial Number: 7140
 Calibration Date: March 17, 2014
 Operator: Scott King

Date/Time	Volume (gal/m)	(+)Total (gal)	(-)Total (gal)	Error #
6/26/2014 15:21:04	952	33775	0	0
6/26/2014 15:22:05	951	34728	0	0
6/26/2014 15:23:04	951	35639	0	0
6/26/2014 15:24:04	948	36600	0	0
6/26/2014 15:25:05	946	37594	0	0
6/26/2014 15:26:05	947	38501	0	0
6/26/2014 15:27:04	948	39462	0	0
6/26/2014 15:28:04	943	40412	0	0
6/26/2014 15:29:05	945	41361	0	0
6/26/2014 15:30:04	946	42263	0	0
6/26/2014 15:31:04	946	43229	0	0

Time	10 minutes
Volume	9454 gallons
Rate	945 gpm
Rate	2.11 cfs