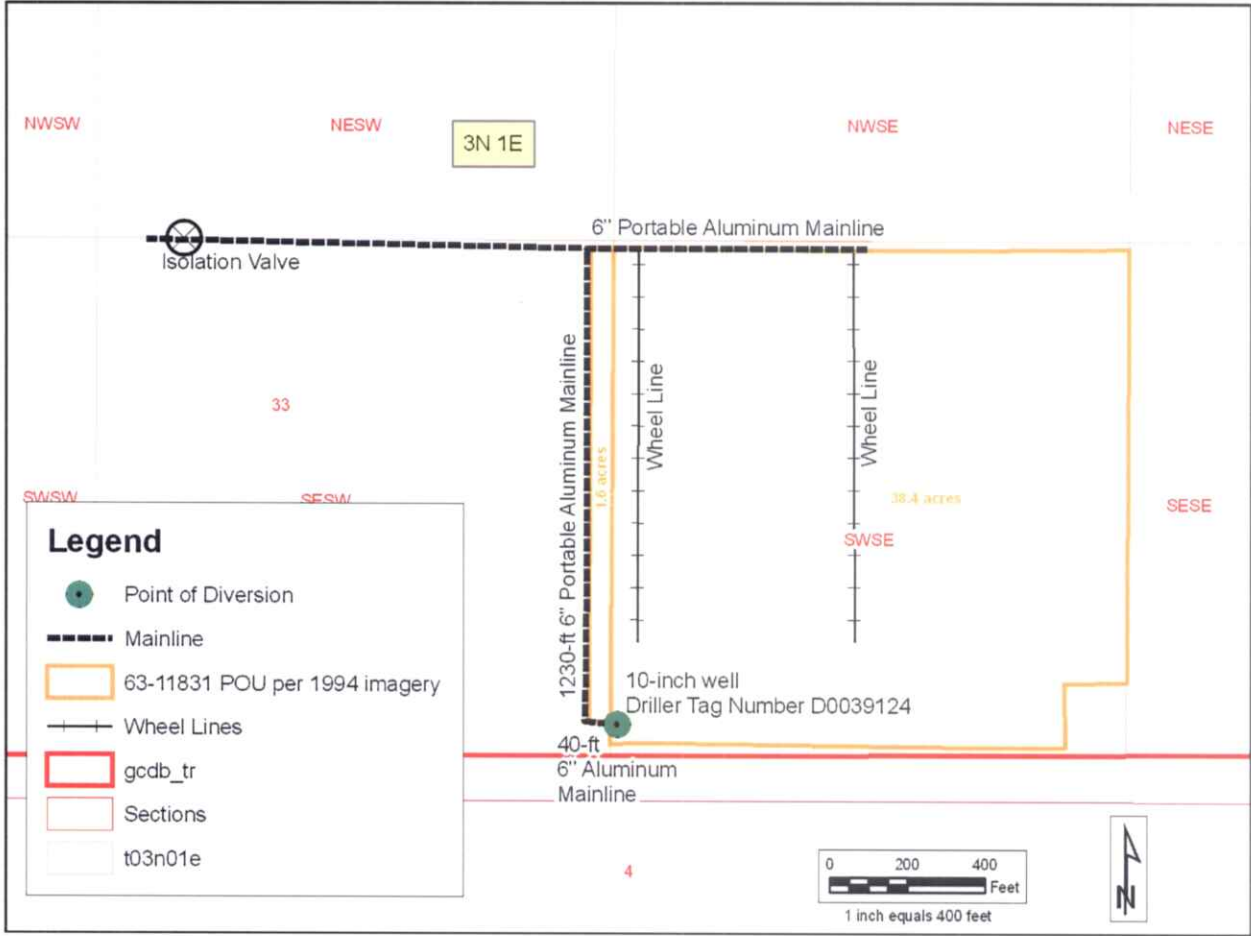


2. Place(s) of Use.

Indicate Method of Determination. (See Instructions on Page 7.)

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	1E	33												1.6			38.4		40.0

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



☒ 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
D0039124	Unknown	30	Unknown	National	Submersible pump to 6-inch plumbing

*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
Theoretical Calculations						

2. Measurements:

Recommended flow rate is based on a theoretical calculation. Adamson Pump reports that a 30-hp National pump is installed with 126 feet of 6 inch galvanized drop pipe.

E. NARRATIVE/REMARKS/COMMENTS

A 10-inch well located at T3N R1E Section 33 SWSE is equipped with a 30-hp submersible National pump, unknown model. Ground water is diverted from the well into portable 6-inch aluminum mainline that runs north ¼ mile to a "T" and then east and west, serving several fields north of Lake Hazel road. Two wheel lines were connected and operating in the SWSE. The system also receives surface water from New York Irrigation District. A valve located in the NWSESW was closed to isolate the system to well water only. Two wheel lines operated in the SWSE, irrigating turf grass. Found beneficial use based on 1994 aerial imagery includes irrigation of 38.4 acres in the SWSE and 1.6 acres in the SESW. A residential subdivision has recently been developed in the east half of SWSE.

Have conditions of permit approval been met? X yes ___ no

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Theoretical Computation:
$$\frac{30 \times 0.70 \times 8.8}{130 + (38 \times 2.31)} = 0.85 \text{ cfs}$$

Based on:

- 30-hp submersible pump
- 130 ft maximum pumping water level based on a pump setting near 130 feet
- 38 psi discharge pressure per field exam
- Assumed 70% pump efficiency

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 40 \text{ acres} \times 4.5 \text{ acre-feet} = 180 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.8 \text{ cfs} \times 259 \text{ days} \times 1.9835 = 411 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 180 \text{ afa}$$

2. Volume Calculations for Other Uses:

none

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	3/1	11/15	0.80	180

Totals: 0.80 180

2. Recommended Amendments

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

X Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name

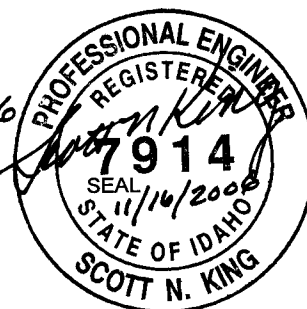
Scott N King

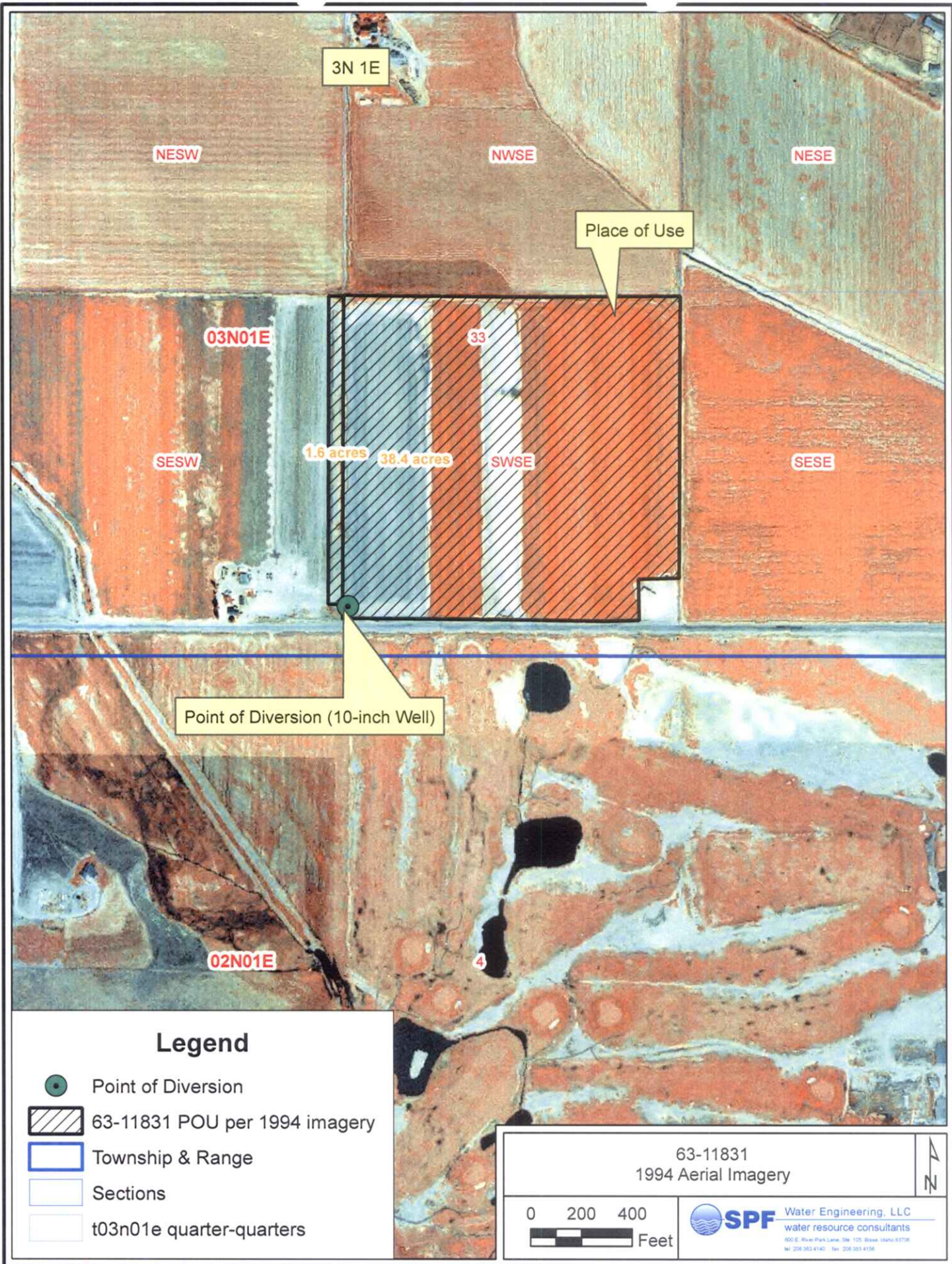
Date

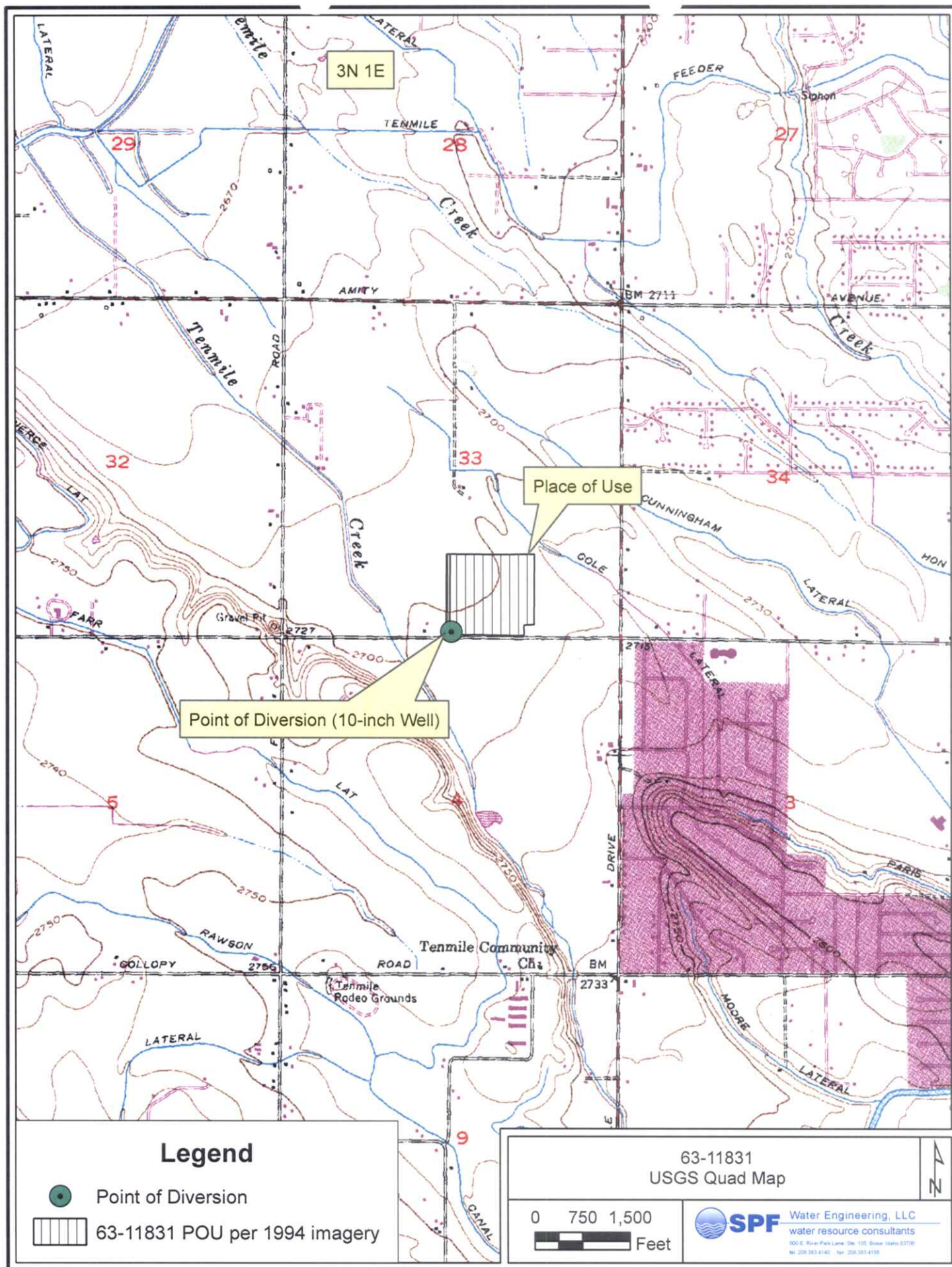
11/16/06

Reviewer

Date







Attachment A
Beneficial Use Field Exam, 63-11831
Photographs obtained September 22, 2006



Photo 1: Taken at point of diversion facing west. Southern (left) butterfly valve is closed; northern butterfly valve is open.



Photo 2: Taken 40-feet west of well, facing north. Well is to the right; place of use is right (east) of 6-inch aluminum mainline.

Attachment A
Beneficial Use Field Exam, 63-11831
Photographs obtained September 22, 2006



Photo 3: Taken at northern end of field facing towards mainline bend shown in Photo 2. Place of use is east (left) of aluminum mainline.

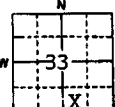


Photo 4: Taken near northeast field corner facing south. Place of use includes field shown.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESUSE TYPEWRITER OR
BALLPOINT PEN

WELL DRILLER'S REPORT

State 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>Darwin McKay</u> Address <u>3220 E. Lake Hazel Rd. Meridian, ID</u> Drilling Permit No. <u>63-92-W-0960-000</u> Water Right Permit No. <u>63-11831</u>	7. WATER LEVEL Static water level <u>64</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 _____ °F. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																																																																																																																																												
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 ☐ Bailor ☒ 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>350</td><td></td><td>1</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	350		1																																																																																																																																																																						
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG 090916 <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>10"</td><td>1</td><td>2 1/2</td><td>Top Soil</td><td></td><td></td></tr><tr><td>"</td><td>2 1/2</td><td>80</td><td>Sand & Gravel</td><td></td><td></td></tr><tr><td>"</td><td>80</td><td>81</td><td>Clay Layer</td><td></td><td></td></tr><tr><td>"</td><td>81</td><td>83</td><td>Coarse Sand</td><td></td><td></td></tr><tr><td>"</td><td>83</td><td>90</td><td>Clay Tan Hard</td><td></td><td></td></tr><tr><td>"</td><td>90</td><td>107</td><td>Sand (Med.-Coarse)</td><td></td><td></td></tr><tr><td>"</td><td>107</td><td>113</td><td>Sandy Clay</td><td></td><td></td></tr><tr><td>"</td><td>113</td><td>115</td><td>Sand-coarse-gravel</td><td></td><td></td></tr><tr><td>"</td><td>115</td><td>125</td><td>Sand " " v. little</td><td>X</td><td></td></tr><tr><td>"</td><td>125</td><td>130</td><td>Fractured Clay-Sand-Gravel</td><td></td><td></td></tr><tr><td>"</td><td>130</td><td>135</td><td>Sand/fine</td><td></td><td>X</td></tr><tr><td>"</td><td>135</td><td>140</td><td>Sand/fine</td><td></td><td>X</td></tr><tr><td>"</td><td>140</td><td>145</td><td>Sandy Clay</td><td></td><td></td></tr><tr><td>"</td><td>145</td><td>155</td><td>Sand/pea gravel v. litt</td><td>X</td><td></td></tr><tr><td>"</td><td>155</td><td>157</td><td>Soft Clay</td><td></td><td></td></tr><tr><td>"</td><td>157</td><td>175</td><td>Sandy w/gravel</td><td></td><td></td></tr><tr><td>"</td><td>175</td><td>195</td><td>Sandy w/gravel</td><td></td><td></td></tr><tr><td>"</td><td>195</td><td>199</td><td>Sandy Clay Tan</td><td></td><td></td></tr><tr><td>"</td><td>199</td><td>209</td><td>Sand a lot</td><td>X</td><td></td></tr><tr><td>"</td><td>209</td><td>216</td><td>Clay</td><td></td><td></td></tr><tr><td>"</td><td>216</td><td>217</td><td>Sand fine</td><td></td><td>X</td></tr><tr><td>"</td><td>217</td><td>220</td><td>Clay & Sand Pocket</td><td>X</td><td></td></tr><tr><td>"</td><td>220</td><td>221</td><td>Clay</td><td></td><td></td></tr><tr><td>"</td><td>221</td><td>228</td><td>Coarse Sand</td><td></td><td>X</td></tr><tr><td>"</td><td>228</td><td>235</td><td>Sand & Clay Mix</td><td></td><td></td></tr><tr><td>"</td><td>235</td><td>256</td><td>Gravel & Sand</td><td></td><td></td></tr><tr><td>"</td><td>256</td><td></td><td>Sand & Pea Gravel a lot</td><td>X</td><td></td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	10"	1	2 1/2	Top Soil			"	2 1/2	80	Sand & Gravel			"	80	81	Clay Layer			"	81	83	Coarse Sand			"	83	90	Clay Tan Hard			"	90	107	Sand (Med.-Coarse)			"	107	113	Sandy Clay			"	113	115	Sand-coarse-gravel			"	115	125	Sand " " v. little	X		"	125	130	Fractured Clay-Sand-Gravel			"	130	135	Sand/fine		X	"	135	140	Sand/fine		X	"	140	145	Sandy Clay			"	145	155	Sand/pea gravel v. litt	X		"	155	157	Soft Clay			"	157	175	Sandy w/gravel			"	175	195	Sandy w/gravel			"	195	199	Sandy Clay Tan			"	199	209	Sand a lot	X		"	209	216	Clay			"	216	217	Sand fine		X	"	217	220	Clay & Sand Pocket	X		"	220	221	Clay			"	221	228	Coarse Sand		X	"	228	235	Sand & Clay Mix			"	235	256	Gravel & Sand			"	256		Sand & Pea Gravel a lot	X	
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Auger ☐ Reverse rotary ☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)																																																																																																																																																																													
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>.250 inches</td><td>10 inches</td><td>2 feet</td><td>254 feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation? _____ inches by _____ inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</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>20</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ Sealing procedure used: ☒ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>Top of Well</u>	Thickness	Diameter	From	To	.250 inches	10 inches	2 feet	254 feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ 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> Address of Well Site <u>3220 E. Lake Hazel Rd.</u> <u>Meridian, ID</u> (give at least name of road) T. <u>3</u> N ☒ or S ☐ SW <u>1/4</u> SE <u>1/4</u> Sec. <u>33</u> R. <u>1</u> E ☒ or W ☐	10. Work started <u>12/31/92</u> finished <u>4/14/93</u>																																																																																																																																																																												
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>Adamsen Pump</u> Firm No. <u>457</u> & Drilling Address <u>Nampa, ID</u> Date <u>4/15/93</u> Signed by Drilling Supervisor <u>Dave Adamsen</u> and (Operator) <u>DAVE ADAMSEN</u> (If different than the Drilling Supervisor)																																																																																																																																																																													

