

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 13-7464

Exam Date: 6/28/2013

1. Current Owner: ELLEN WHEATLEY
1598 E 3200 S
PRESTON ID 83263
(208)646-2445

Or

BERT WHEATLEY
1598 E 3200 S
PRESTON ID 83263
(208)646-2445

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 13-7102, 13-218, 13-221
2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SW1/4SE1/4

Sec. 7, Twp 16S, Rge 40E, B.M.

FRANKLIN County

Method of Determination:

FE/OPS

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
16S	40E	7	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
											22.0	30.0	32.0	39.0			12.0		135.0
											L 3	L 4							

Total Acres: 135

K06-126 ac limit

Method of Determination:

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
Chevy	Engine	80hp		Randolph	

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

theoretical cal = 1.61 cfs

E. FLOW CALCULATIONS

Measured Method:

☐ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 126 \times 3.5 = 441.$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 441$$

2. Volume Calculations for Other Uses:

126 Acre limit

G. NARRATIVE/REMARKS/COMMENTS

80 hp randolph pump with a chevy motor. to mainline and sprinklers.
Theoretical calculation at 1.61 cfs. PSI at 50 and 190 feet is the pumping depth.
place of use includes all irrigated acres = 135 acres. This permit was limited to 126 acres

13-218 and 13-221 from an unnamed stream trib to worm creek are also used on this place of use. Surface water is used as the primary right

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	1.610 CFS	441.00 AF
<u>Totals:</u>		1.610 CFS	441.00 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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name _____ Date _____
Reviewer DAVE CARLSON Date 7/15/2013

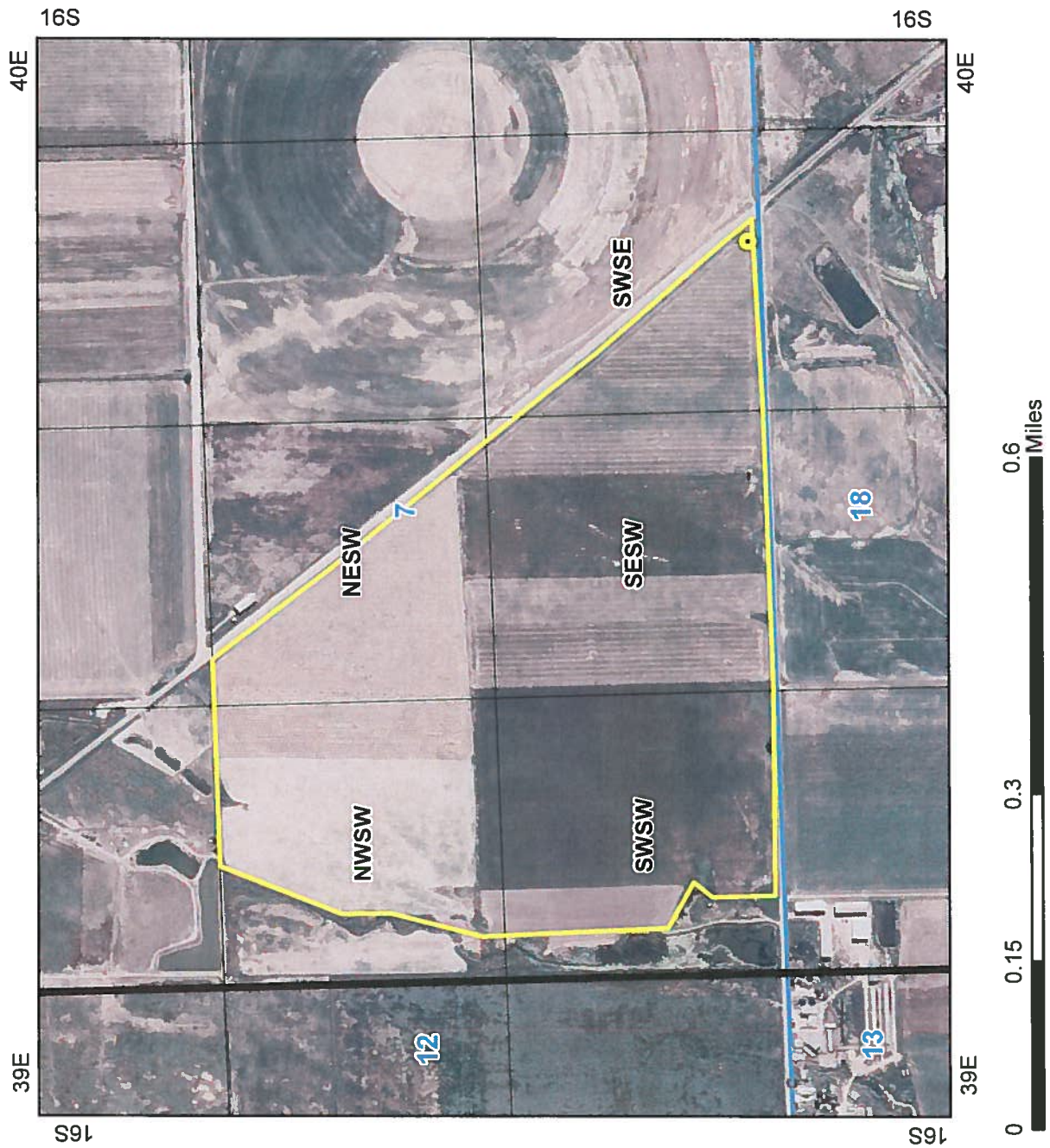


- ☉ Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Prepared by Carlson, Dave

2009 Aerial Photography



13-1464



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 13-7464/7102
 Reviewer:
 Date of Review:

13-7464

13-7102

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	110	80	0
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	500	190	0
DISCHARGE PRESSURE	50	50	0
RATE OF FLOW (cfs)	1.10	1.61	#DIV/0!

The above calculates the formula = $Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$

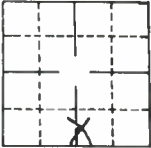
Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

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>Bert Wheatley</u> Address <u>RFD # 1 1598 E. 3200 S.</u> <u>Preston, Idaho 83263</u> Owner's Permit No. <u>RE 13-07464 (13-89E-007)</u>	7. WATER LEVEL Static water level <u>15</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 ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr><tr><td style="text-align: center;">350</td><td style="text-align: center;">190</td><td style="text-align: center;">2</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	Discharge G.P.M.	Pumping Level	Hours Pumped	350	190	2																																																																																																																																		
Discharge G.P.M.	Pumping Level	Hours Pumped																																																																																																																																							
350	190	2																																																																																																																																							
3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <table border="1" style="width: 100%; border-collapse: collapse;"><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>14"</td><td>0</td><td>20</td><td></td><td></td><td></td></tr><tr><td>12"</td><td>20</td><td>305</td><td></td><td></td><td></td></tr><tr><td>6"</td><td>305</td><td>904</td><td></td><td></td><td></td></tr><tr><td></td><td>0</td><td>24</td><td>brown clay</td><td></td><td></td></tr><tr><td></td><td>24</td><td>138</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>138</td><td>146</td><td>tan clay</td><td></td><td></td></tr><tr><td></td><td>146</td><td>176</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>176</td><td>205</td><td>hardpan & siltstone</td><td></td><td></td></tr><tr><td></td><td>205</td><td>214</td><td>hardpan</td><td></td><td></td></tr><tr><td></td><td>214</td><td>215</td><td>rock</td><td></td><td></td></tr><tr><td></td><td>215</td><td>219</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>219</td><td>226</td><td>conglomerate</td><td></td><td>X</td></tr><tr><td></td><td>226</td><td>228</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>228</td><td>235</td><td>rock</td><td></td><td>X</td></tr><tr><td></td><td>235</td><td>240</td><td>rock white</td><td></td><td>X</td></tr><tr><td></td><td>240</td><td>246</td><td>gravel</td><td></td><td>X</td></tr><tr><td></td><td>246</td><td>251</td><td>gravel</td><td></td><td>X</td></tr><tr><td></td><td>251</td><td>262</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>262</td><td>276</td><td>clay & gravel</td><td></td><td></td></tr><tr><td></td><td>276</td><td>290</td><td>conglomerate</td><td></td><td></td></tr><tr><td></td><td>290</td><td>904</td><td>hardpan & soft shale</td><td></td><td></td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	14"	0	20				12"	20	305				6"	305	904					0	24	brown clay				24	138	blue clay				138	146	tan clay				146	176	blue clay				176	205	hardpan & siltstone				205	214	hardpan				214	215	rock				215	219	clay				219	226	conglomerate		X		226	228	clay				228	235	rock		X		235	240	rock white		X		240	246	gravel		X		246	251	gravel		X		251	262	clay				262	276	clay & gravel				276	290	conglomerate				290	904	hardpan & soft shale		
Bore Diam.	Depth		Material	Water																																																																																																																																					
	From	To		Yes	No																																																																																																																																				
14"	0	20																																																																																																																																							
12"	20	305																																																																																																																																							
6"	305	904																																																																																																																																							
	0	24	brown clay																																																																																																																																						
	24	138	blue clay																																																																																																																																						
	138	146	tan clay																																																																																																																																						
	146	176	blue clay																																																																																																																																						
	176	205	hardpan & siltstone																																																																																																																																						
	205	214	hardpan																																																																																																																																						
	214	215	rock																																																																																																																																						
	215	219	clay																																																																																																																																						
	219	226	conglomerate		X																																																																																																																																				
	226	228	clay																																																																																																																																						
	228	235	rock		X																																																																																																																																				
	235	240	rock white		X																																																																																																																																				
	240	246	gravel		X																																																																																																																																				
	246	251	gravel		X																																																																																																																																				
	251	262	clay																																																																																																																																						
	262	276	clay & gravel																																																																																																																																						
	276	290	conglomerate																																																																																																																																						
	290	904	hardpan & soft shale																																																																																																																																						
4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☒ Cable ☐ Dug ☐ Other _____	RECEIVED DEC 23 1991 Department of Water Resources Eastern District Office NOV 14 1989 Department of Water Resources Eastern District Office																																																																																																																																								
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>$\frac{1}{4}$ inches</td><td>12 inches</td><td>0 feet</td><td>293 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><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 Size of perforation $\frac{1}{8}$ inches by 3 inches <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>24 perforations</td><td>219 feet</td><td>226 feet</td></tr><tr><td>18 perforations</td><td>228 feet</td><td>240 feet</td></tr><tr><td>60 perforations</td><td>240 feet</td><td>250 feet</td></tr></tbody></table> Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ 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>pump base</u> <u>12 perfs. @ 284' - 286'</u>	Thickness	Diameter	From	To	$\frac{1}{4}$ inches	12 inches	0 feet	293 feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	24 perforations	219 feet	226 feet	18 perforations	228 feet	240 feet	60 perforations	240 feet	250 feet																																																																																																									
Thickness	Diameter	From	To																																																																																																																																						
$\frac{1}{4}$ inches	12 inches	0 feet	293 feet																																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																						
Number	From	To																																																																																																																																							
24 perforations	219 feet	226 feet																																																																																																																																							
18 perforations	228 feet	240 feet																																																																																																																																							
60 perforations	240 feet	250 feet																																																																																																																																							
6. LOCATION OF WELL Sketch map location must agree with well location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Franklin</u> SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. <u>7</u> T. <u>16</u> S. <u>40</u> E. <u>EX</u>	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Westlake Drilling</u> Firm No. <u>114</u> Address <u>184 N. 7 St</u> Date <u>11-06-89</u> Signed by (Firm Official) <u>E. Ray Westlake</u> and (Operator) <u>E. Ray Westlake</u>																																																																																																																																								