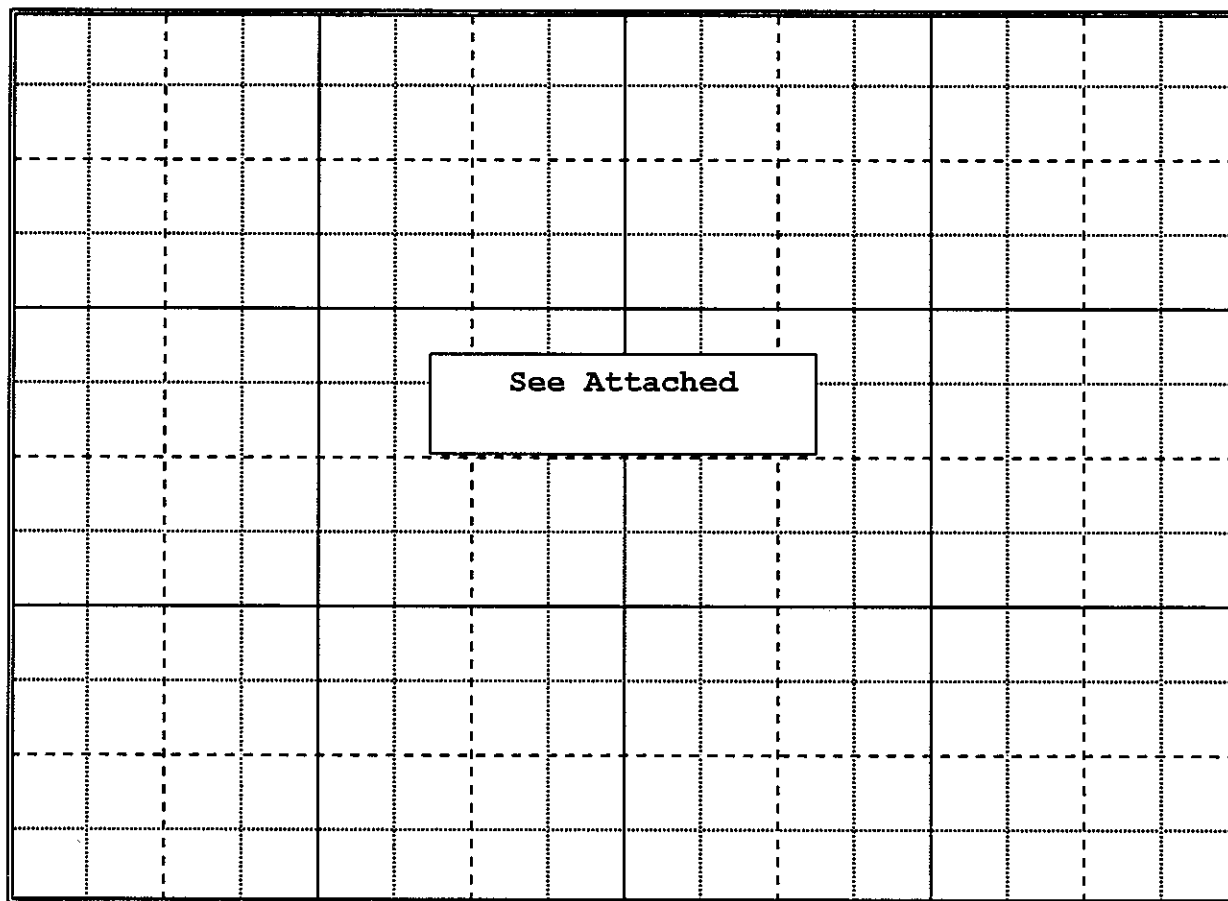


[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe id as applicable. See Attachment C



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
1 (8-inch) D0038491	Unknown	15	Unknown	Berkeley Model 6T-225, 6-stage	4-inch discharge size
2 (16-inch) D0038492	General Electric	100	40168601	American-Marsh Pumps Model 12GC, 4-stage	8-inch discharge size

*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

2. **Measurements:** _____ System was not operating at the time of this examination. Two McCrometer flowmeters are installed (one for each well, see photographs).

E. NARRATIVE/REMARKS/COMMENTS

Two wells provide supplemental external domestic water to 692 residential lots located within Lochsa Falls Subdivision Nos. 1 through 12. This permit authorizes use on 686 residential lots as described in Attachment A. Average irrigated area for each residential lot is approximately 7,000 square feet or 110 total acres for 686 lots.

Both wells are located Lot 01, Block 41, Lochsa Falls Subdivision.

Decree 63-2656B and License 63-31861 together authorize supplemental irrigation on 77 acres within the subdivision. Thirty four (34) acres of 63-31861 have been enrolled in the Idaho Water Supply Bank. Currently, approximately 37.5 acres of common and commercial areas (non-residential lots) are irrigated within the subdivision. The remaining irrigation balance ($77 - 34 - 37.5 = 5.5$ acres) can be applied towards the following six residential lots that were not included on this permit: Lot 17, Block 4, Subdivision No. 7; Lot 12, Block 25, Subdivision No. 10; Lots 4, 25 and 26, Block 48, Subdivision No. 12; and Lot 7, Block 49, Subdivision No. 12.

Settlers Irrigation District surface water and a portion of water right 63-170A (delivered by Settlers Irrigation District) are the primary irrigation sources for the subdivision. Water for internal domestic uses is provided by United Water Idaho and/or the City of Meridian. No other rights are used.

Water bearing zone appropriated is from 145 to 270 feet.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

No Additional Computation Sheets Attached

Measured Method: Estimates based on pump capacity curves (Attachment B: Well Logs, Pump Curves)

Well 1

Pump Curve: 0.45 cfs @ 240 ft TDH

PWL @ 0.45 cfs = 40 ft (approximate, with Well 1 also operating)

Discharge Pressure = 75 psi

Friction Loss = 10 ft

TDH = PWL + discharge Pressure + friction loss = 223 ft

Well 2

Pump Curve: 2.45 cfs at 250 ft TDH

PWL @ 2.45 cfs = 56 ft (approximate, with Well 2 also operating)

Discharge Pressure = 75 psi

Friction Loss = 10 ft

TDH = PWL + discharge Pressure + friction loss = 240 ft

Combined capacity of both wells is 1,300 gpm (2.90 cfs)

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Required: 686 residential lots X 0.6 afa per lot = 411.6 afa

Potential: 2.2 cfs x 1.9835 af/cfs-day x 260 days = 1,135 afa

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic	1/1	12/31	2.2 cfs	411.6 afa

2. Recommended Amendments

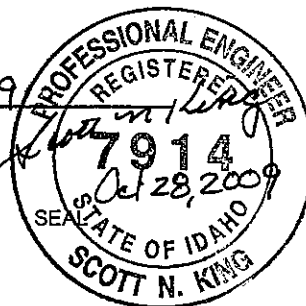
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Scott N King Date 10/28/2009

Field Examiner's Signature Scott N King

Reviewer _____ Date _____



ATTACHMENT A

PERMIT RECORD AND PROOF OF BENEFICIAL USE

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-31859

Priority: April 06, 2004

Maximum Diversion Rate: 2.20 CFS

This is to certify, that LOCHSA FALLS LLC
4487 N DRESDEN PL STE 102
BOISE ID 83714

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>
DOMESTIC	01/01 to 12/31	2.20 CFS

LOCATION OF POINTS OF DIVERSION:

GROUND WATER	SW¼NE¼	Sec. 26, Twp 04N, Rge 01W, B.M., ADA County
GROUND WATER	SW¼NE¼	Sec. 26, Twp 04N, Rge 01W, B.M., ADA County

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
04N 01W 26	X	X	X	X				X					X	X			

CONDITIONS OF APPROVAL

1. Proof of application of water to beneficial use shall be submitted on or before **November 01, 2009**.
2. Subject to all prior water rights.
3. 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.
4. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
5. Water bearing zone to be appropriated is from 75 to 500 feet.
6. Domestic use is for 686 homes.
7. Place of use is located within Lots 2-5, Blk. 4; Lots 1-2, Blk. 5; Lots 1-7, 9-17, Blk. 6; Lots 1-2, 4-13, 15-25, Blk. 7; Lots 1-7, 9-16, Blk. 8; Lots 1-5, Blk. 9; Lot 1, Blk. 10; Lots 1-11, Blk. 11; and Lot 1, Blk. 12 (Phase 1); Lots 2-15, Blk. 1; Lots 2-12, Blk. 3; Lots 2-7, 9-25, Blk. 13; Lot 1, Blk. 14 (Phase 2); Lots 2-11, Blk. 10; Lots 12-19, Blk. 11; Lots 2-6, 8-12, Blk. 12; Lots 2-5, Blk. 15; Lots 1-16, Blk. 16; Lots 1-5, 7-12, Blk. 17; Lots 1-8, Blk. 18 (Phase 3); Lots 3-12, Blk. 5; Lots 6-16, Blk. 9; Lots 12-18, Blk. 10; Lots 1-13, 15-16, Blk. 20; Lots 1-5, Blk. 21; Lot 1, Blk. 22 (Phase 4); Lot 19, Blk. 10; Lots 9-22, Blk. 18; Lot 17, Blk. 20; Lots 6-10, Blk. 21; Lots 1-6, 8-9, Blk. 23 (Phase 5); Lots 16-22, 24-30, Blk. 1; Lot 2, Blk. 14; Lots 1-9, Blk. 24; Lots 1-3, Blk. 25; Lots 1-16, Blk. 26 (Phase 6); Lots 6-10, 12-16, 18-21, Blk. 4; Lots 13-22, Blk. 5; Lots 26-40, Blk. 13; Lots 3-16, Blk. 14; Lots 2, 5-9, Blk. 22; Lots 4-8, Blk. 25; Lots 19-24, Blk. 26; Lots 2-5, Blk. 27 (Phase 7); Lots 9-11, 13-17, Blk. 25; Lots 6-14, 16-20, Blk. 27; Lots 1-12, 14-23, Blk. 37; Lots 1-9, Blk. 38 (Phase 8); Lots 31-41, 43-45, 47-48, 50-51, Blk. 1; Lots 12-32, Blk. 24; Lots 18-20, Blk. 25; Lots 1-6, Blk. 40; Lots 1-2, Blk. 41; Lots 1-4, Blk. 42 (Phase 9); Lot 2, Blk. 43; Lots 1-9, Blk. 44; Lots 1-9, Blk. 45; Lot 1, Blk. 46; Lots 1-5, Blk. 47; Lot 1, Blk. 48 (Phase 10); plus 164 unplatted lots; all within Lochsa Falls Subdivision.

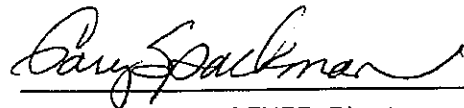
State of Idaho
Department of Water Resources

Permit to Appropriate Water

NO. 63-31859

8. The irrigation occurring under this domestic use shall not exceed 1/2 acre within each platted subdivision lot upon which a home has been constructed. This right does not provide for irrigation of common areas or for irrigation of lots upon which homes have not been constructed.
9. The right holder shall make full beneficial use of all surface water rights available to the right holder for irrigation of the subdivision lots authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right to those times when the surface water supply is not available or the surface water supply is not reasonably sufficient to irrigate the place of use authorized under this right.
10. If the surface water right(s) appurtenant to the place of use is sold, transferred, leased or used on any other place of use, this right to divert groundwater shall not be used for irrigation purposes without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.
11. This right does not grant any right-of-way or easement across the land of another.
12. 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 determine the amount of water diverted from power records and shall annually report the information to the Department.
13. 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 22nd day of November, 2004.


KARL J DREHER, Director

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. 63-31859 Telephone No. (208) 323-1080

2. Name of Permit Holder(s): LOCHSA FALLS SUBDIVISION HOA INC

3. Mailing Address: 5537 GLENWOOD City GARDEN CITY

State ID Zip 83714 Email: _____

4. Source of Water: GROUND WATER If **GROUND WATER** (well), Date Drilled: mo. DEC / yr. 2004

Well Driller: RIVERSIDE, INC Drilling Permit Number: 886192-826217 (D0038491)
JAN 2005, RIVERSIDE INC, 886193-826218 (D0038492)

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

Domestic (No. of households): 686 Stockwater (No. and type of stock): _____

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

6. Total rate of diversion or storage volume for which proof is submitted: 2.20 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?

Yes ☐ No ☒

If yes, has the measuring device been installed?

Yes ☐ No ☐

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

Yes ☐ No ☒

If yes, has the lockable device been installed?

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.

NONE

Completed?

Yes ☐ No ☒

8. Fee Enclosed: \$ n/a (Exam by SPF Water Engineering) 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: n/a (Exam by SPF Water Engineering) 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: Reep Cordon, President Date: Oct 27, 2009
(include your title, if on behalf of company or organization)

ATTACHMENT B
WELL LOGS AND PUMP CURVES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

826217
Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____

1. WELL TAG NO. D 0038491
DRILLING PERMIT NO. 88619A-826217
Other IDWR No. _____

2. OWNER:
Name LOCHSA FALLS, LLC
Address 4487 NORTH DRESDEN PLACE, SUITE 102
City BOISE State ID Zip 83714

#1 WELL
3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N			
		X	
W			E

Twp. 4 North ☒ or South ☐
Rge. 1 East ☐ or West ☒
Sec. 26 1/4 SW 1/4 NE 1/4
Gov't Lot _____ County ADA
Lat: _____ Long: _____

Address of Well Site HORSE CIRCLE City BOISE
(Give at least name of road & distance to road or landmark)

Lt. 1 Blk. 41 Sub. Name Phase 8, Lochsa falls

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

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD
☐ Air Rotary ☐ Cable ☐ Mud Rotary ☒ Other REVERSE

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From To	From To	Sacks or Pounds	
5/8 BENONITE	0 140	17,500		DRY FOUR
CS-1 SAND 8-12	140 222	18,000		DRY FOUR

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

8. CASING/LINER:

Diameter	From To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	145 145	322	STEEL	☒	☐	☒	☐
8"	155 163		STEEL	☒	☐	☒	☐
8"	178 195		STEEL	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe 3'

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens _____ Screen Type JOHNSON WIRE WRAP

From To	Slot Size	Number	Diameter	Material	Casing	Liner
145 155	.030		8"	S.S.	☒	☐
163 178	.030		8"	S.S.	☒	☐
195 215	.030		8"	S.S.	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

9 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: SANITARY WELL CAP

11. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
500 gpm	32'	41'	2 hrs

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From To	Remarks: Lithology, Water Quality & Temperature	Y	N
20"	0 6	TOP SOIL		
	6 8	CLECKEY		
	8 34	SAND, GRAVEL, RIVER ROCK		
	34 46	TAN CLAY		
	46 62	COARSE SAND		
	62 65	TAN CLAY		
	65 69	FINE SAND		
	69 71	TAN CLAY		
	71 81	FINE-COARSE SAND		
	81 85	TAN CLAY		
	85 94	FINE SAND		
	94 97	TAN CLAY		
	97 102	FINE SAND		
	102 107	TAN CLAY		
	107 109	FINE SAND		
	109 114	TAN CLAY		
	114 117	FINE SAND		
	117 135	TAN CLAY		
	135 137	MED SAND		
	137 140	TAN CLAY		
	140 155	FINE-MED, SOME COARSE SAND		
	155 163	TAN CLAY		
	163 177	MED-COARSE SAND		
	177 197	TAN CLAY		
	197 215	MED-COARSE SAND		
	215 222	TAN CLAY		

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JAN 10 2005

WATER RESOURCES
WESTERN REGION

Completed _____ Depth 218' (Measurable)
Date: Started 12-1-04 Completed 12-20-04

13. DRILLER'S CERTIFICATION

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

Company Name RIVERSIDE INC Firm No. 333

Firm Official _____ Date _____

and _____

Driller or Operator _____ Date 1-09-05

(Sign once if Firm Official & Operator)

63
Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Well ID No. 826218
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. D 0038492
DRILLING PERMIT NO. 886193-826218
Water Right or Injection Well No. _____

2. OWNER:
Name LOCHSA FALLS
Address 4487 NORTH DRESDEN PLACE, Suite 102
City BOISE State ID Zip 83714

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 4 North ☒ or South ☐
Rge. 1 East ☐ or West ☒
Sec. 26 1/4 SW 1/4 NE 1/4
Gov't Lot _____ 10 acres _____ 40 acres _____ 160 acres _____

Lat: _____ Long: _____
Address of Well Site HORSE CIRCLE

(Give at least name of road + Distance to Road or Landmark)
City BOISE
LL. 1 Blk. 41 Sub. Name Phase 8, Lochsa Falls

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☒ Other REVERSE

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>5/8 BENTONITE</u>	<u>0</u>	<u>175</u>	<u>27,500#</u>	<u>DRY POUR</u>

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

Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>16"</u>	<u>+2</u>	<u>193</u>	<u>.315</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>16"</u>	<u>213</u>	<u>225</u>	<u>.315</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>16"</u>	<u>235</u>	<u>245</u>	<u>.315</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>16"</u>	<u>260</u>	<u>.375</u>	<u>STEEL</u>	☒	☐	☒	☐	☐

Length of Casing 260 of Tailpipe _____

Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation JOHNSON WIRE WRAP

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>193</u>	<u>213</u>	<u>.030</u>		<u>16"</u>	<u>S.S.</u>	☒	☐
<u>225</u>	<u>235</u>	<u>.030</u>		<u>16"</u>	<u>S.S.</u>	☒	☐
<u>245</u>	<u>255</u>	<u>.030</u>		<u>16"</u>	<u>S.S.</u>	☒	☐
<u>260</u>	<u>270</u>	<u>.030</u>		<u>16"</u>	<u>S.S.</u>	☒	☐

10" FILTER PACK					0.030	16"	S.S	Y
Filter Material		From	To	Weight / Volume	Placement Method			
CSSI 6-9 SAND		175	275	26,000	Dry Pour			

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

19 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____
1 1/2" PIPE

12. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>2300 gpm</u>	<u>90'</u>	<u>109'</u>	<u>3 hrs</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>24"</u>	<u>0</u>	<u>6</u>	<u>TOP SOIL</u>		
	<u>6</u>	<u>8</u>	<u>CLECHAY</u>		
	<u>8</u>	<u>28</u>	<u>SAND, GRAVEL, RIVER ROCK</u>		
	<u>28</u>	<u>35</u>	<u>TAN CLAY</u>		
	<u>35</u>	<u>57</u>	<u>FINE-COARSE SAND</u>		
	<u>57</u>	<u>64</u>	<u>TAN CLAY</u>		
	<u>64</u>	<u>76</u>	<u>FINE SAND</u>		
	<u>76</u>	<u>90</u>	<u>TAN CLAY</u>		
	<u>90</u>	<u>96</u>	<u>FINE SAND</u>		
	<u>96</u>	<u>109</u>	<u>TAN CLAY</u>		
	<u>109</u>	<u>112</u>	<u>FINE SAND</u>		
	<u>112</u>	<u>122</u>	<u>TAN CLAY</u>		
	<u>122</u>	<u>133</u>	<u>FINE SAND</u>		
	<u>133</u>	<u>137</u>	<u>TAN CLAY</u>		
	<u>137</u>	<u>159</u>	<u>MED-COARSE SAND</u>		
	<u>159</u>	<u>167</u>	<u>TAN CLAY</u>		
	<u>167</u>	<u>169</u>	<u>COARSE SAND</u>		
	<u>169</u>	<u>180</u>	<u>TAN CLAY</u>		
	<u>180</u>	<u>185</u>	<u>COARSE SAND</u>		
	<u>185</u>	<u>192</u>	<u>TAN CLAY</u>		
	<u>192</u>	<u>214</u>	<u>MED-COARSE SAND</u>		
	<u>214</u>	<u>226</u>	<u>TAN CLAY</u>		
	<u>226</u>	<u>234</u>	<u>COARSE SAND</u>		
	<u>234</u>	<u>246</u>	<u>TAN CLAY</u>		
	<u>246</u>	<u>251</u>	<u>COARSE SAND</u>		
	<u>251</u>	<u>252</u>	<u>BRN CLAY</u>		
	<u>252</u>	<u>254</u>	<u>MED SAND</u>		
	<u>254</u>	<u>258</u>	<u>TAN CLAY</u>		
	<u>258</u>	<u>271</u>	<u>COARSE SAND</u>		
	<u>271</u>	<u>275</u>	<u>TAN CLAY</u>		

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JAN 10 2005

WATER RESOURCES
WESTERN REGION

Completed Depth 270' (Measurable)

Date: Started 12-16-04 Completed 1-5-05

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 RIVERSIDE INC Firm No. 333

Principal Driller [Signature] Date 1-6-05

and Driller or Operator II [Signature] Date _____

Operator I [Signature] Date 1-6-05

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

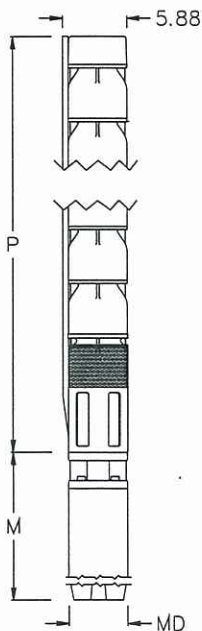
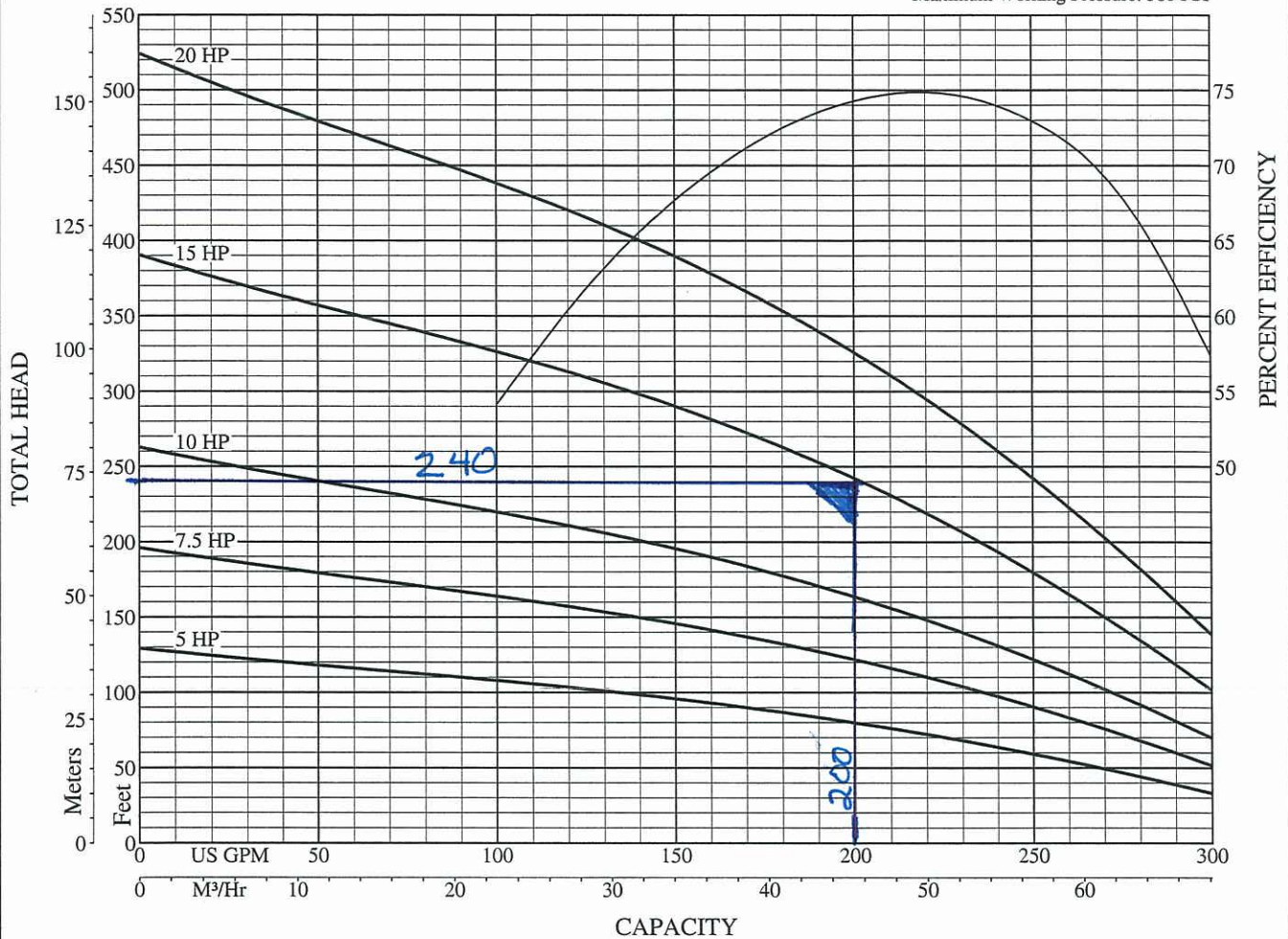


SUBMERSIBLE TURBINE

WELL #1

6T-225

Nominal RPM: 3450
Based on Fresh Water @ 68° F.
Maximum Working Pressure: 580 PSI



OUTLINE DIMENSIONS / WEIGHTS

HP	stages	Motor size	P length	M* length	MD* dia.	Mtr. wt.	Pump wt.
5	2	6"	23.98	25.44	5.38	101	75
7.5	3	6"	28.98	28.00	5.38	108	94
10	4	6"	33.98	30.56	5.38	116	114
15	6	6"	43.98	33.13	5.38	129	152
20	8	6"	53.98	30.56	5.38	145	191

Note: dimensions = inches; weight = U.S. lbs.

M* Maximum length (Franklin Electric Motor)

MD* Motor diameter (Franklin Electric Motor)

SPECIFICATIONS

Minimum Well I.D.	6.0 Inches
Minimum Submergence @ BEP (above inlet)	10.0 Feet
Capacity Range	100 - 300 GPM
Discharge	4" F NPT
See manufacturer's data for motor cooling requirements	

SUPERSEDES

All Previous

Date 01/02/02

Section ST

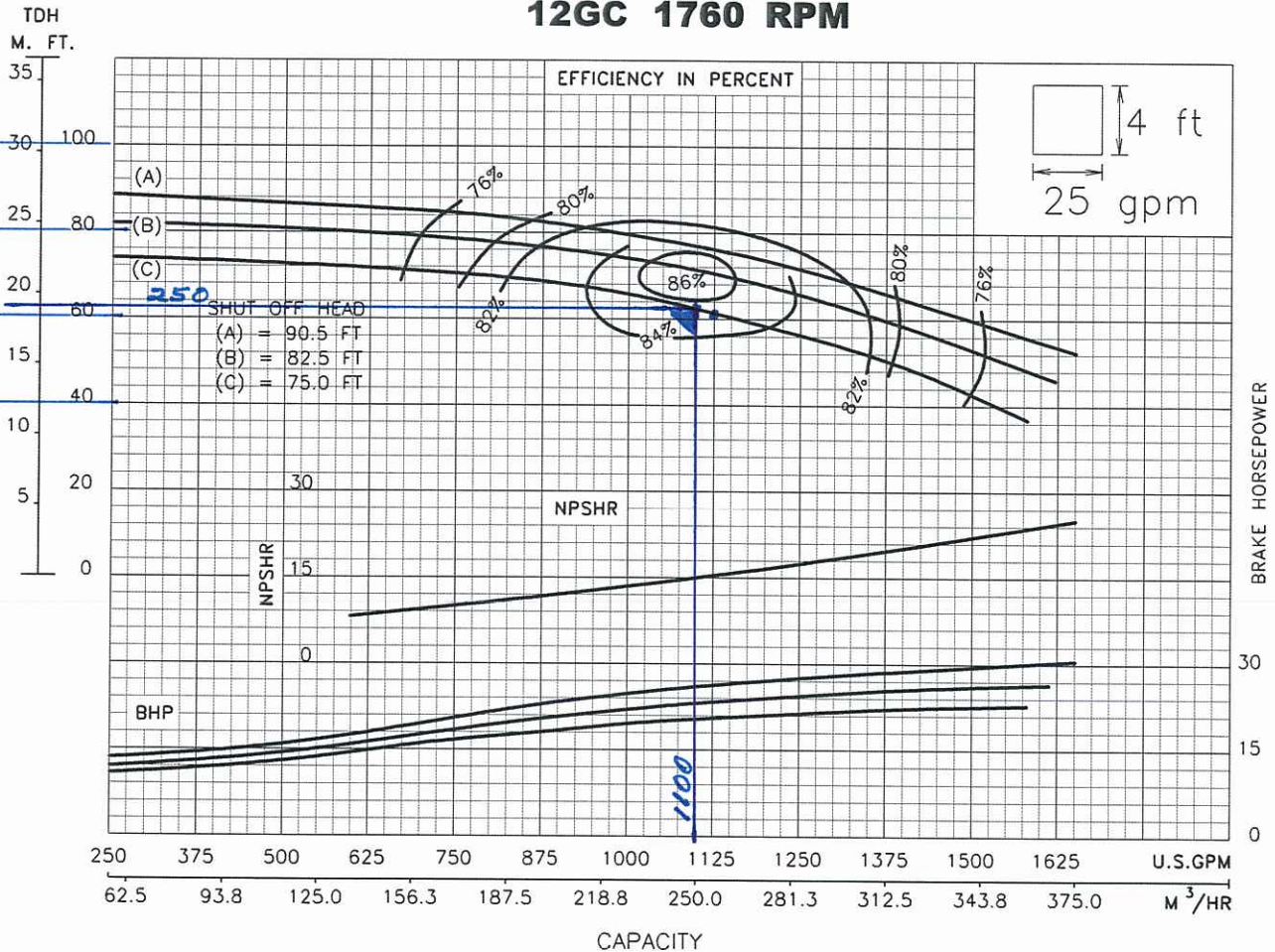
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TURBINE PUMP CURVE

JANUARY 2002

WELL 2



IMPELLER DATA	
Impeller Number 3850	TRIM: (A) 9.500" x 24"
Material BRONZE	(B) 9.125" x 24"
Type CLOSED	(C) 8.750" x 24"
Thrust Factor K= 5.1	
Eye Area 20.63 sq. in.	
Weight 17.5 lb.	Minimum submergence above eye of bottom impeller: 24 in.

EFFICIENCY CORRECTION					
Number of Bowls	1	2	3	4	
Change as follows	-3	-2	-1	0	
Change in efficiency may affect both head and horsepower.					

BOWL DATA	
Bowl Number 3841 C.I./ENAM.	
Bowl Dia. 11.938"max 11.750"min	
Max. No. Stages 12	
One Stage Weight 265 lb	
Add'l Stage Weight 126 lb	
Std. Shaft Dia. 1.688 in	
Std. Lateral 1.000 in	
Discharge Size 8 - 10 in	
Suction Size 8 - 10 in	
Max. Sphere Size 0.625 in	
Max Operation P.S.I. 584 (special)	

Performance based on pumping clear, fresh water at a temperature not over 85° F., and free of gas, air or abrasives, and with bowls properly adjusted and submerged.

ATTACHMENT C

TOPO MAP, 2006 AERIAL PHOTO, and SCHEMATIC

USGS Quadrangle

2556

T4N R1W Section 26

2572

692 Total Domestic Lots
686 Permitted Lots
6 Excluded Lots Highlighted

SIMPSON
rview School
(Aban'd)

ROAD

9

#2 (16-inch) D0038492

#1 (8-inch) D0038491

8

12

11

6

2

1

3

4

5

7

10

13

ROAD

2560

554

2572

Legend



Lochsa Falls Wells



Lochsa Falls Subdivision (blk)



Excluded Lots



Lochsa Falls Residential Parcels



Transfer 71109 Coverage

Lochsa Subdivision Permit 63-31859



0 500 1,000
Feet

snk 10/23/2009



SPF WATER
ENGINEERING

T4N R1W

2006 Photo

692 Total Domestic Lots
686 Permitted Lots
6 Excluded Lots Highlighted

Legend

-  Lochsa Falls Wells
-  Lochsa Falls Subdivision (blk)
-  Excluded Lots
-  Lochsa Falls Residential Parcels
-  Transfer 71109 Coverage

Lochsa Subdivision Permit 63-31859



0 500 1,000
Feet

snk 10/23/2009

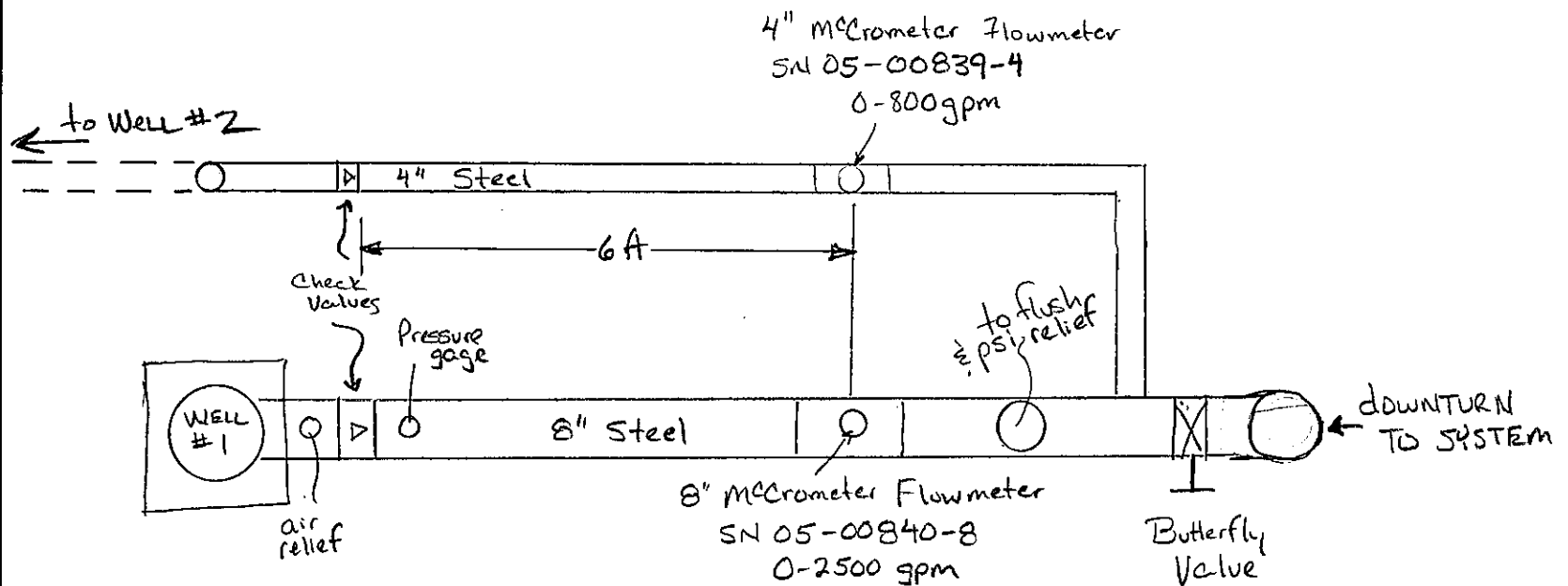




SPF WATER
ENGINEERING, LLC

By _____ Date _____ Client _____
Chkd By _____ Description _____ Sheet _____ of _____ Job No _____

Lochsa Falls Pump House Schematic



Not to Scale

ATTACHMENT D

PHOTOS



Lochsa Falls subdivision entrance



Well pump house



Big (16-inch) well on left equipped with 100-hp vertical turbine pump. Incoming pipeline from small (8-inch) well on right.



Big well and discharge piping.



Big well discharge piping on right; small well discharge piping on left. Both pipelines equipped with McCrometer flowmeters. Flush line discharges to outside of pump house through pipe on upper right. Discharge pipe to distribution system through floor on center right.



Small (8-inch) well on center left. Pump house in background on right.