

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17454
Exam Date: 5/3/2018

1. Current Owner:
WATERING HOLE WATER ASSN 26035 N HWY 41 RATHDRUM ID 83858 (208) 691-9430
2. Accompanied by: Byron Mitchell
Address: 26039 N Hwy 41 Rathdrum ID 83858
Relationship to Permit Holder: User / representative

3. **SOURCE:**
GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE¼NW¼ Sec. 33, Twp 53N, Rge 04W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD located at -116° 50.469, 47° 54.098 given IDWR tag A0015414

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
53N	04W	28												X					
53N	04W	33		X			X												

Method of Determination: Google Earth and Arcmap.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X Indicate weir size/pipe as applicable.X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.X Aerial Photo Attached (required for irrigation of 10+ acres).X 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
95-87-N-22	FRANKLIN	5			

*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: N/A

E. FLOW CALCULATIONS

Measured Method: Unable to perform flow measurement because system diverted directly into pressure tanks. Theoretical pumping equation and pump curve both estimate flow rate at 28.6 gpm or 0.06 cfs. Pump curve and theoretical pumping equation attached.

X Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: Domestic use for 8 homes

Domestic use for 8 homes with irrigation up to ½ acre: 8 homes X 1.2 acre-feet (0.6 in home and 0.6 ½ acre) = 9.6 acre-feet

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicant's representative, Byron Mitchell, showed a well serving 7 homes and 1 stub in. The well was drilled in 1987 and was given IDWR tag A0015414 after GPS was taken. I was unable to perform any kind of flow measurement because water line was buried to pump house and then diverted directly into 4 pressure tanks. From the pressure tanks, water was used by the homes. A theoretical pumping equation and pump curve estimated the diversion rate at 28.6 gpm or 0.06 cfs.

The well served 7 homes and 1 stub in. 2 homes and the stub in were across Hwy 41 from the well. The other 5 homes were located in the vicinity of the well. Homes were using water for in home use and irrigation up to ½ acre. There are no overlap concerns because individuals came into file adjudication claims and were directed to allocations because of the shared well. Domestic use for 8 homes and irrigation up to ½ acre will be given an annual volume of 9.6 acre-feet.

License will be issued for a diversion rate of 0.06 cfs with an annual volume of 9.6 acre-feet. Condition 046 will be removed from license and all other conditions will remain.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.06 CFS	9.6 AF
	<u>Totals:</u>	0.060 CFS	9.60 AF

2. Recommended Amendments

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

 Change P.U. as reflected above Add P.U. as reflected above X None

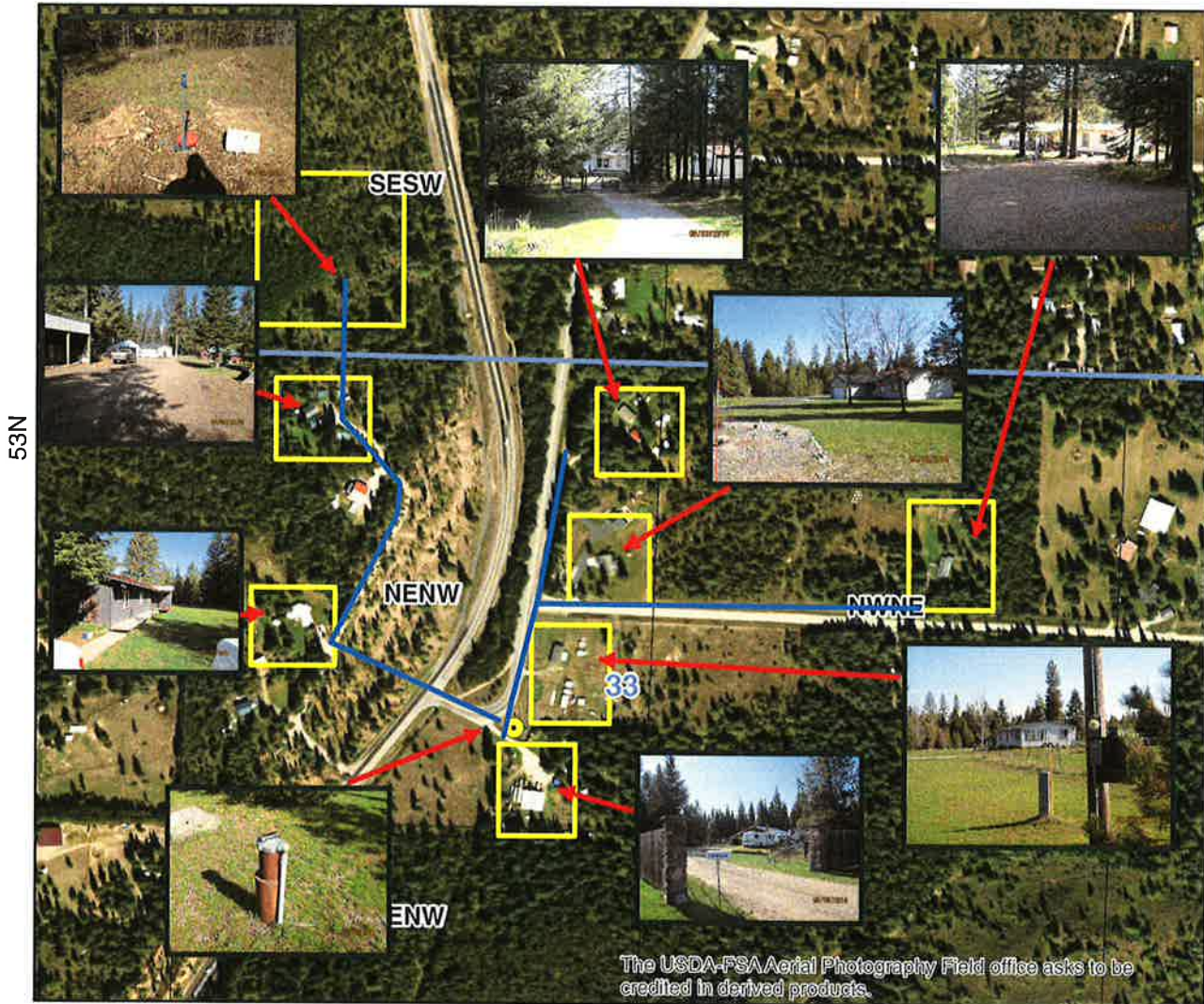
I. AUTHENTICATION

Field Examiner's Name Don Fink Date 5/4/2019
 Reviewer Douglas Jones P.E. Date 6/4/2018

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-17454

DOMESTIC / SYSTEM DIAGRAM

04W



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

0 0.05 0.1 0.2 Miles



Form 722
9/82

RECEIVED
NOV 27 1987

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

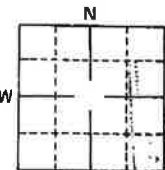
RECEIVED
USE INK, REWRITER OR
BALL POINT PEN
DEC 30 1987
POSTED

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>Ben Cooper</u> Address <u>W. 6150 Hollister Dr., Post Falls, Idaho 83854</u> Owner's Permit No. <u>95-87-10-22</u> 2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log) 3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type) 4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____ 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><u>.250</u> inches</td> <td><u>8</u> inches</td> <td><u>1</u> feet</td> <td><u>293</u> feet</td> </tr> <tr> <td><u>.250</u> inches</td> <td><u>6</u> inches</td> <td><u>2</u> feet</td> <td><u>473</u> 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 <u>8" + 6"</u> Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ 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>_____ 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'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 ☐ Pudding 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 _____	Thickness	Diameter	From	To	<u>.250</u> inches	<u>8</u> inches	<u>1</u> feet	<u>293</u> feet	<u>.250</u> inches	<u>6</u> inches	<u>2</u> feet	<u>473</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	7. WATER LEVEL Static water level <u>407'</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 _____ Describe artesian or temperature zones below. 8. WELL TEST DATA ☐ Pump ☐ Bailer ☒ Air ☐ Other _____ <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr> <td><u>30+</u></td> <td></td> <td></td> </tr> <tr> <td><u>Estimated</u></td> <td></td> <td></td> </tr> <tr> <td><u>Air lift</u></td> <td></td> <td></td> </tr> </tbody> </table> 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>8"</td> <td>0</td> <td>2</td> <td>Top Soil</td> <td></td> <td>X</td> </tr> <tr> <td>8"</td> <td>2</td> <td>30</td> <td>Gravel, cobble, boulders w/ clay; brown</td> <td></td> <td>X</td> </tr> <tr> <td>8"</td> <td>30</td> <td>150</td> <td>Gravel, cobble; coarse</td> <td></td> <td>X</td> </tr> <tr> <td>8"</td> <td>150</td> <td>220</td> <td>Gravel, cobble; boulders</td> <td></td> <td>X</td> </tr> <tr> <td>8"</td> <td>220</td> <td>300</td> <td>Gravel, cobble; coarse</td> <td></td> <td>X</td> </tr> <tr> <td>8"</td> <td>300</td> <td>307</td> <td>Boulder</td> <td></td> <td>X</td> </tr> <tr> <td>8"</td> <td>307</td> <td>312</td> <td>Gravel, clay, brown</td> <td></td> <td>X</td> </tr> <tr> <td>6"</td> <td>312</td> <td>325</td> <td>Gravel, sand; coarse</td> <td></td> <td>X</td> </tr> <tr> <td>6"</td> <td>325</td> <td>371</td> <td>Gravel, cobble; coarse</td> <td></td> <td>X</td> </tr> <tr> <td>6"</td> <td>371</td> <td>375</td> <td>Boulder</td> <td></td> <td>X</td> </tr> <tr> <td>6"</td> <td>375</td> <td>435</td> <td>Gravel + cobble; coarse</td> <td>X</td> <td></td> </tr> <tr> <td>6"</td> <td>435</td> <td>440</td> <td>Boulder</td> <td>X</td> <td></td> </tr> <tr> <td>6"</td> <td>440</td> <td>475</td> <td>Gravel, cobble; coarse some small boulders</td> <td>X</td> <td></td> </tr> </tbody> </table> 10. Work started <u>10/7/87</u> finished <u>10/30/87</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>J+J DRILLING, INC.</u> Firm No. <u>319</u> Address <u>55613 Linke Rd.</u> Date <u>11/2/87</u> <u>Greenacres, ID 89020</u> Signed by (Firm Official) <u>[Signature]</u> and (Operator) <u>Keith D. Jernigan</u>	Discharge G.P.M.	Pumping Level	Hours Pumped	<u>30+</u>			<u>Estimated</u>			<u>Air lift</u>			Bore Diam.	Depth		Material	Water		From	To	Yes	No	8"	0	2	Top Soil		X	8"	2	30	Gravel, cobble, boulders w/ clay; brown		X	8"	30	150	Gravel, cobble; coarse		X	8"	150	220	Gravel, cobble; boulders		X	8"	220	300	Gravel, cobble; coarse		X	8"	300	307	Boulder		X	8"	307	312	Gravel, clay, brown		X	6"	312	325	Gravel, sand; coarse		X	6"	325	371	Gravel, cobble; coarse		X	6"	371	375	Boulder		X	6"	375	435	Gravel + cobble; coarse	X		6"	435	440	Boulder	X		6"	440	475	Gravel, cobble; coarse some small boulders	X	
Thickness	Diameter	From	To																																																																																																																																		
<u>.250</u> inches	<u>8</u> inches	<u>1</u> feet	<u>293</u> feet																																																																																																																																		
<u>.250</u> inches	<u>6</u> inches	<u>2</u> feet	<u>473</u> feet																																																																																																																																		
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																		
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																		
Number	From	To																																																																																																																																			
_____ perforations	_____ feet	_____ feet																																																																																																																																			
_____ perforations	_____ feet	_____ feet																																																																																																																																			
_____ perforations	_____ feet	_____ feet																																																																																																																																			
Discharge G.P.M.	Pumping Level	Hours Pumped																																																																																																																																			
<u>30+</u>																																																																																																																																					
<u>Estimated</u>																																																																																																																																					
<u>Air lift</u>																																																																																																																																					
Bore Diam.	Depth		Material	Water																																																																																																																																	
	From	To		Yes	No																																																																																																																																
8"	0	2	Top Soil		X																																																																																																																																
8"	2	30	Gravel, cobble, boulders w/ clay; brown		X																																																																																																																																
8"	30	150	Gravel, cobble; coarse		X																																																																																																																																
8"	150	220	Gravel, cobble; boulders		X																																																																																																																																
8"	220	300	Gravel, cobble; coarse		X																																																																																																																																
8"	300	307	Boulder		X																																																																																																																																
8"	307	312	Gravel, clay, brown		X																																																																																																																																
6"	312	325	Gravel, sand; coarse		X																																																																																																																																
6"	325	371	Gravel, cobble; coarse		X																																																																																																																																
6"	371	375	Boulder		X																																																																																																																																
6"	375	435	Gravel + cobble; coarse	X																																																																																																																																	
6"	435	440	Boulder	X																																																																																																																																	
6"	440	475	Gravel, cobble; coarse some small boulders	X																																																																																																																																	

6. LOCATION OF WELL

Sketch map location must agree with written location.



UET 17 1988

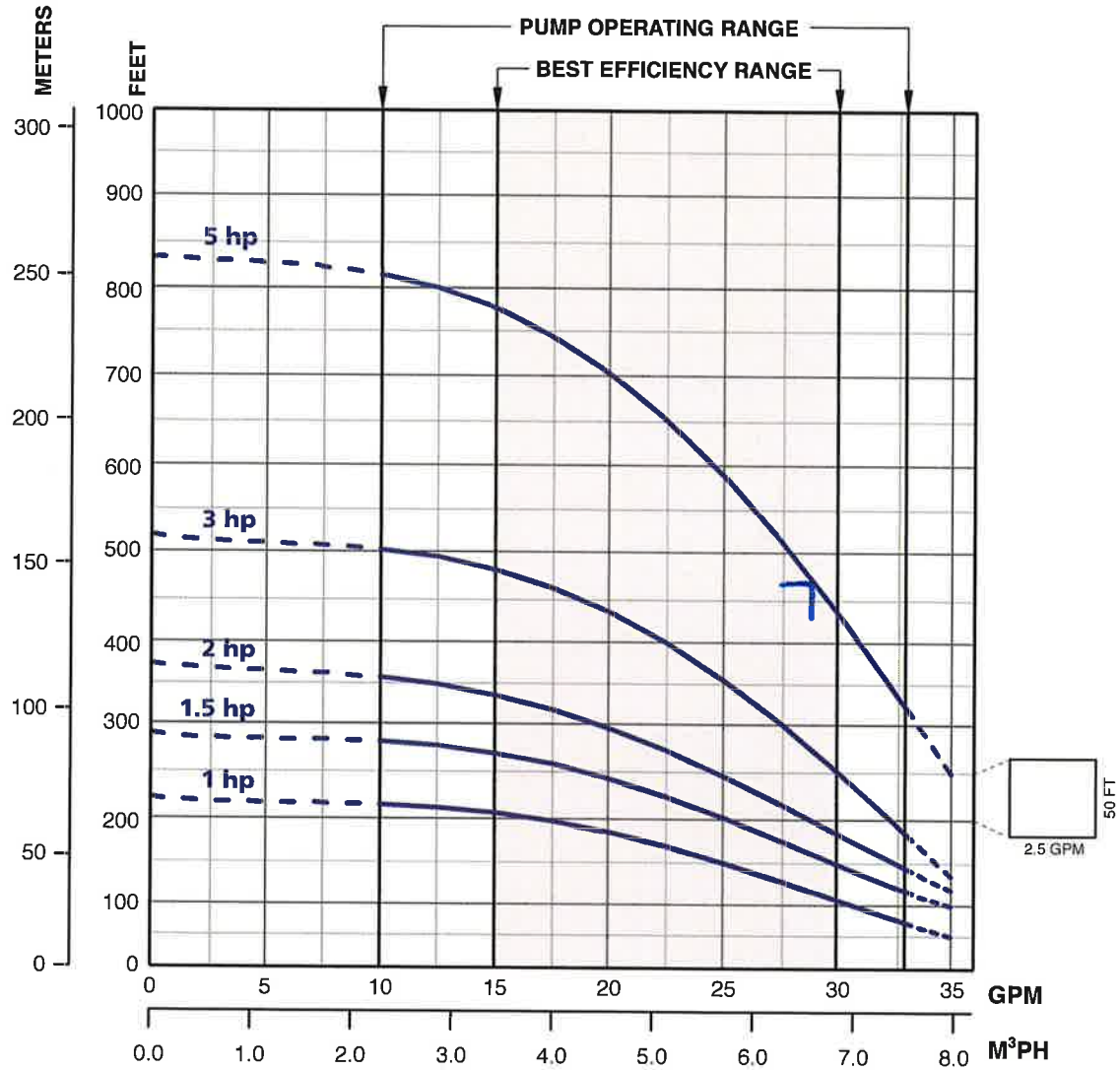
Lot No. _____ Block No. _____

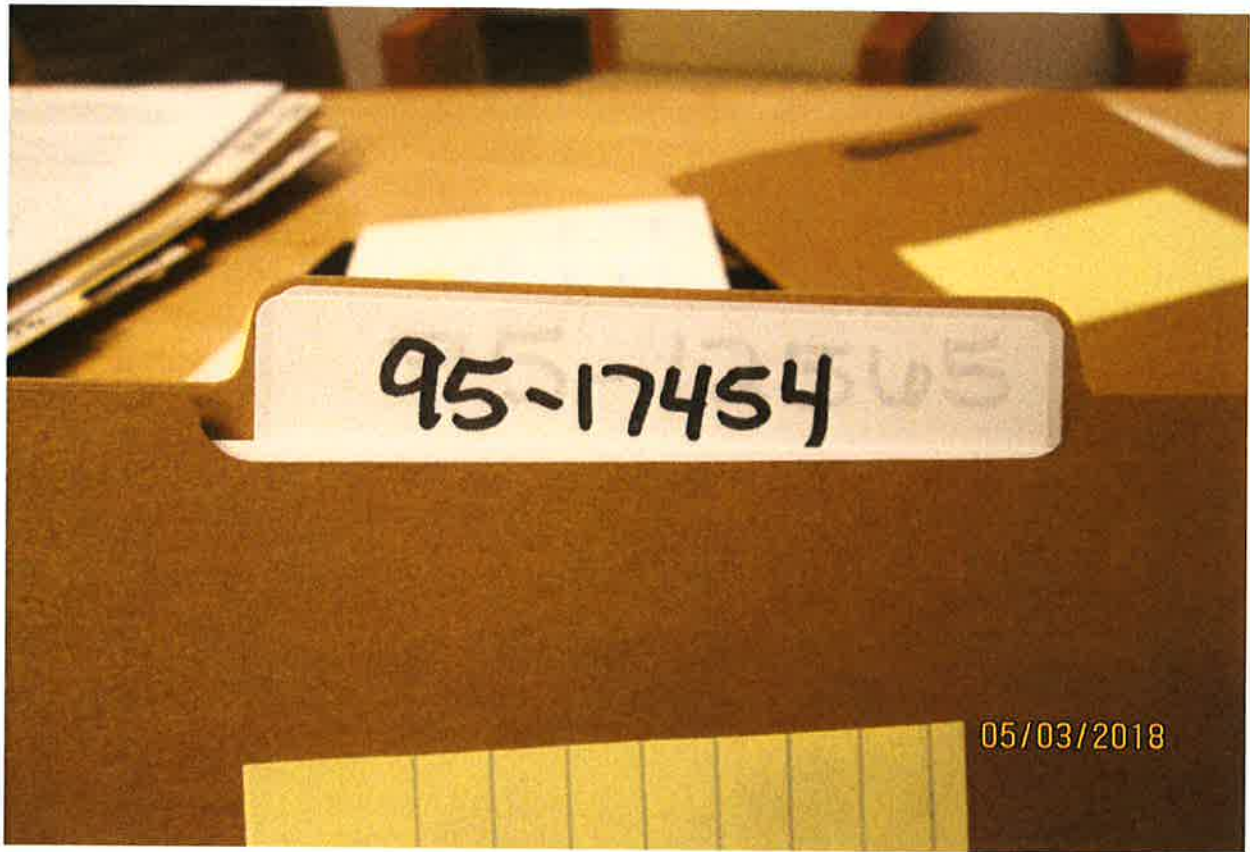
County Boone

1/4 _____ 1/4 Sec. 33 T. 53N N/S, R. 4 E

Submersible Pumps

4" Series V Pumps - 25 GPM





Well drilled in 1987. Given IDWR tag A0015414.



5hp pump in well.



Pump house.



Pump house.



House 1.



Home 2.



Home 3 (stub in).



Home 4.



Home 5.



Home 6.



Home 7.



Home 8.