

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 91-07563
Exam Date: 6/13/2017

1. Current Owner:
SYLVIAS HAVEN ASSN 3114 W EDSON TERRACE BOISE ID 83705 (208) 631-0100
2. Accompanied by: Stephen Hopkins
Phone No: same as above
Address: same as above
Relationship to Permit Holder: Owner of house where well is located.
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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE¼NE¼ Sec. 7, Twp 46N, Rge 02W, B.M. BENEWAH County

Method of Determination: Maps and GPS. POD located at -116° 37.965, 47° 20.903 given IDWR tag (A0015430).

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	
46N	02W	7				X									X L 7				

Method of Determination: Google Earth, Arcmap, and Benewah County Tax Records.

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
D0040692	FRANKLIN	3			

*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
FLOW METER						

2. Measurements: FLOW METER ON SYSTEM MEASURED 24 GPM OR 0.05 CFS

E. FLOW CALCULATIONS

Measured Method: PUMP CURVE FOR SYSTEM ATTACHED
TO CONFIRM FLOW MEASUREMENT FROM SYSTEM METER.

X

Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses:

14 WEEKS = 28 WEEKEND DAYS AND 70 WEEKDAYS

28 WEEKEND DAYS X 8 PEOPLE X 14 REC LOTS X 50 GAL PER PERSON = 156,800 GPY

70 WEEKDAYS X 2 PEOPLE X 14 REC LOTS X 50 GAL PER PERSON = 98,000 GPY

$156,800 + 98,000 = 254,800 \text{ GPY} / 325,850 = 0.8 \text{ ACRE-FEET}$

DOMESTIC IN HOME USE FOR 1 HOME = 0.6 ACRE-FEET

TOTAL DOMESTIC USE OF 1.4 ACRE-FEET

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Stephen Hopkins showed a well serving a home and 14 recreational lots. The well equipped with a 3hp Franklin pump running on a SubDrive 150. A flowmeter on the system showed the well produced 24 gpm or 0.05 cfs. A pump curve for the Subdrive 150 confirmed the measured flow rate. From the well, water was pumped into two 3k storage tanks on the hill behind the pump house. Water from the system was only used for in home use and no irrigation water was used. License will limit water to in home use only. The taxlot where the well was located had a permanent full time home on it. Water Right 91-7104 was for irrigation out of the St. Joe River for lawn and garden around the house. There will be no need to overlap the two rights because this will be for in home use only and the other right is for irrigation.

From the cisterns, water was diverted to 14 recreational sites located on the St. Joe River. The 14 recreational sites were all hooked up to septic and each had a dedicated water line. Mr. Hopkins said the recreational sites were used from Memorial Day to Labor Day. On average, that is 98 days or 14 weeks. Mr. Hopkins said there is average usage during the weekdays around 2 people per lot, but said on average there were 8 people per site during the weekends. With an estimated amount per day of 50 gallons per person (Estimates per day per person with septic hookup) total usage of the recreational sites would be 254,800 gallons or 0.8 acre-feet. Domestic use for the home would be 0.6 acre-feet with an overall annual volume of 1.4 acre-feet.

During the exam, well ID tag D0040692 was visible on the casing. While I was attaching shapes during licensing it was found the location of the well was misidentified. In the process of moving the location to the GPS spot, I discovered there were two well tags attached to that tag. The well in question was deepened in 2007 with tag D0051680. During exam this tag was not visible on the casing and I am unaware of where it is located. I have attached both well logs in the final field report.

License will be issued for 0.05 cfs with an annual volume of 1.4 acre-feet. Condition WB5 will be added to not allow any irrigation from the well. Conditions X59 and X60 will be added to identify the well lot and place of use lots. Condition 004 will be left on license and all other conditions will be removed that were on permit. There are no overlap concerns.

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	0.05 CFS	1.4 AF
	<u>Totals:</u>	0.050 CFS	1.40 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 ☒ None

I. AUTHENTICATION

Field Examiner's Name Adam Fink Date 2-1-2018

Reviewer Douglas Jones P.E. Date 2/28/2018

Frederick, Adam

From: Anna.Moody@deq.idaho.gov
Sent: Monday, February 12, 2018 2:06 PM
To: Frederick, Adam
Cc: JBarton@phd1.idaho.gov
Subject: Sylvia's Haven

Good afternoon Adam,

Upon further review of Sylvia's Haven with information you have regarding the water system and their permitting, they are a regulated public drinking water system. We have a newly assigned PWS# ID1050035. Jamie is working with the current president to establish the nature of their service and population and we will work with them to provide technical assistance for safe drinking water.

Please let me know if you have additional questions or comments,
Anna

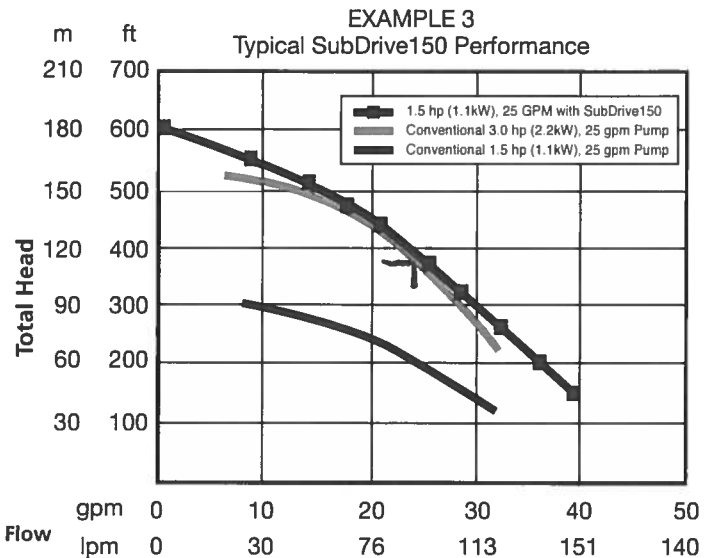
Anna Moody

Drinking Water Program Supervisor
Idaho Department of Environmental Quality
2110 Ironwood Pkwy.
Coeur d' Alene, ID 83814
Phone: (208)769-1422
Direct Line: (208) 666-4612
Fax: (208) 769-1404
Anna.Moody@deq.idaho.gov

Pump Sizing – SubDrive150

The SubDrive150 is configured at the factory for use with 1.5 hp (1.1 kW) pumps that are mounted to 3.0 hp (2.2 kW) Franklin Electric three-phase motors. In general, the SubDrive150 will enhance the performance of a 1.5 hp (1.1 kW) pump to a similar or better performance than a conventional 3.0 hp (2.2 kW) pump of the same flow rating (pump series).

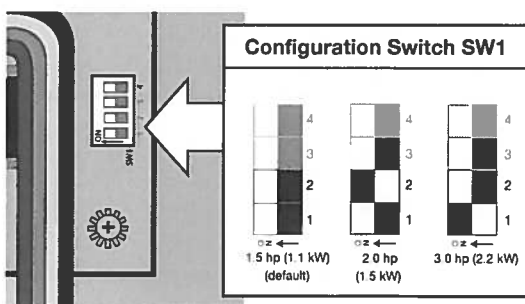
To select the proper 1.5 hp (1.1 kW) pump, first choose a 3.0 hp (2.2 kW) curve that meets the application's head and flow requirements. Use the 1.5 hp (1.1 kW) pump in the same pump series (flow rating). The SubDrive150 will adjust the speed of this pump to produce the performance of the 3.0 hp (2.2 kW) curve. An EXAMPLE of this is illustrated in the graph at right. Please consult the pump manufacturer's pump curve for your specific application.



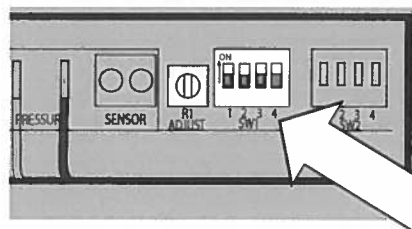
Drive Configuration

The SubDrive150 can also be set up to run a 2.0 hp (1.5 kW) or 3.0 hp (2.2 kW) pump if desired, but larger pumps will still produce to the 3.0 hp (2.2 kW) curve and may only be operated with a 3.0 hp (2.2 kW) motor. To operate a different pump size, a DIP switch must be positioned to select the correct pump rating. Otherwise, the SubDrive150 may trigger erroneous faults.

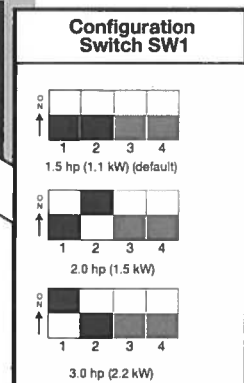
To configure the SubDrive150 for a 2.0 hp (1.5 kW) or 3.0 hp (2.2 kW) pump, locate the DIP switch marked "SW1". Use a small screwdriver (provided) to change the DIP switch setting according to the chart as shown.



NEMA 1



NEMA 4



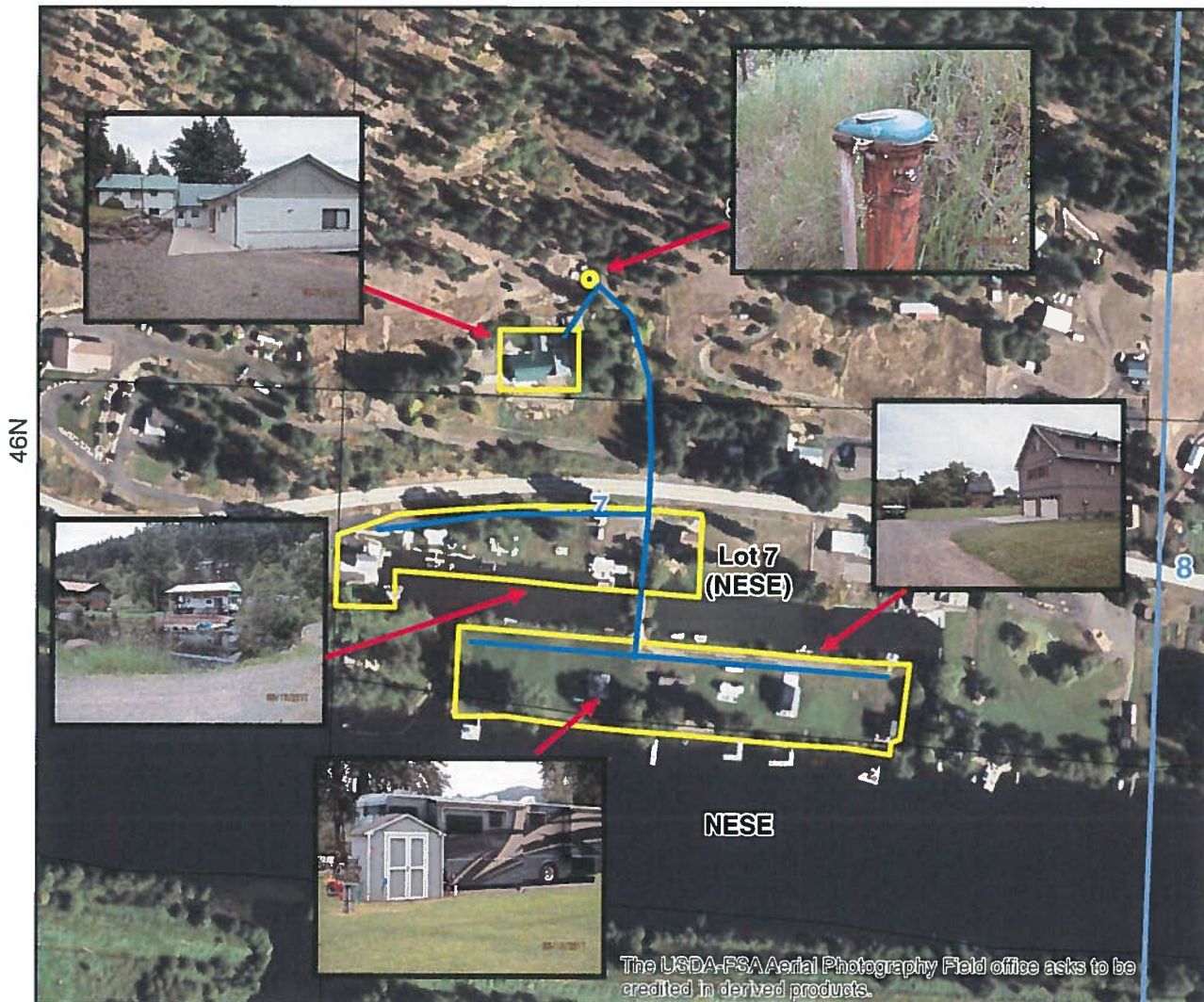
⚠ WARNING

Serious or fatal electrical shock may result from contact with internal electrical components. DO NOT, under any circumstances, attempt to modify DIP switch settings until power has been removed and 5 minutes have passed for internal voltages to discharge! Power must be removed for DIP switch setting to take effect.

State of Idaho
Department of Water Resources
Attachment to Field Exam
91-7563

DOMESTIC / SYSTEM DIAGRAM

02W



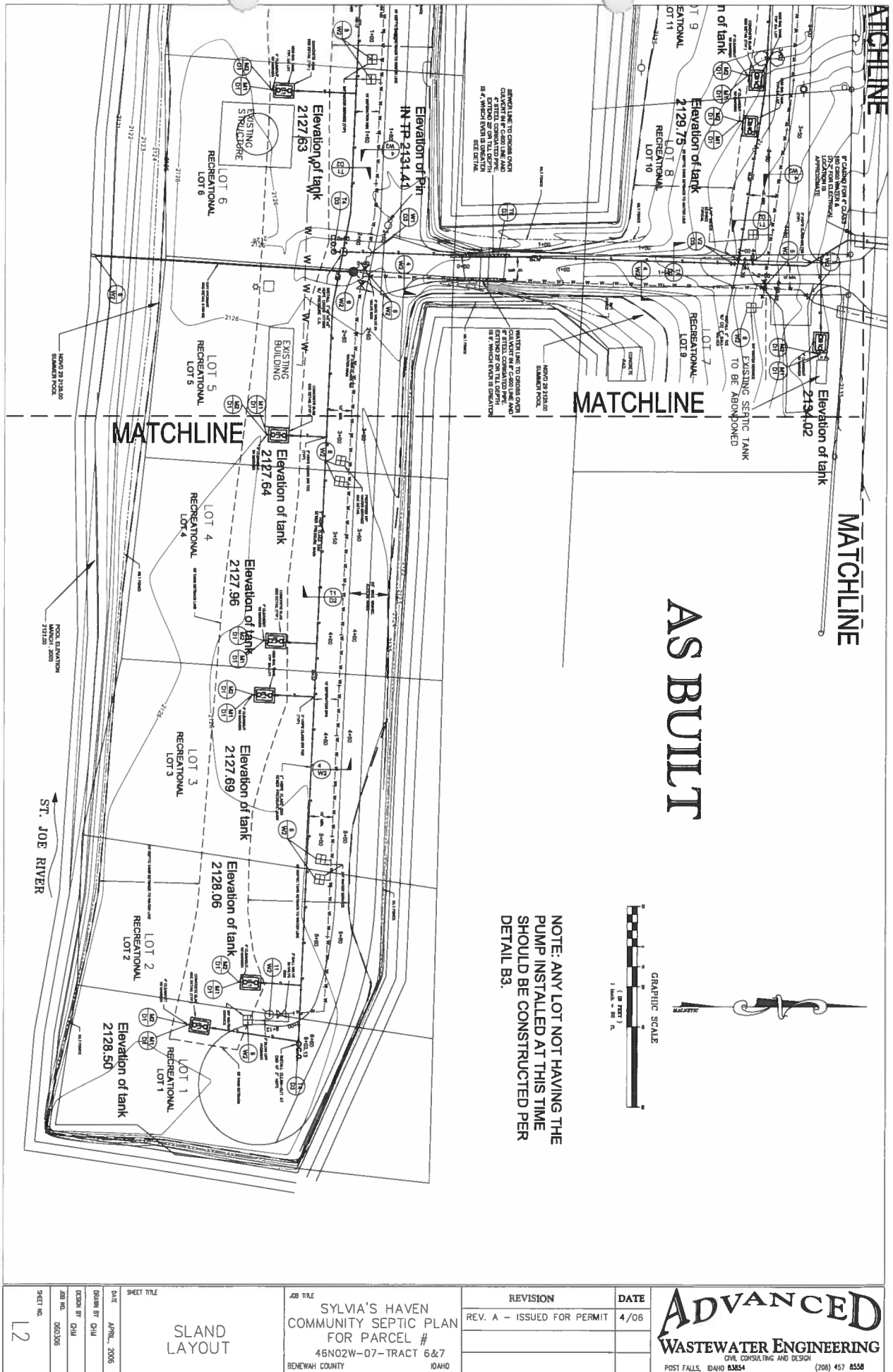
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.035 0.07 0.14 Miles

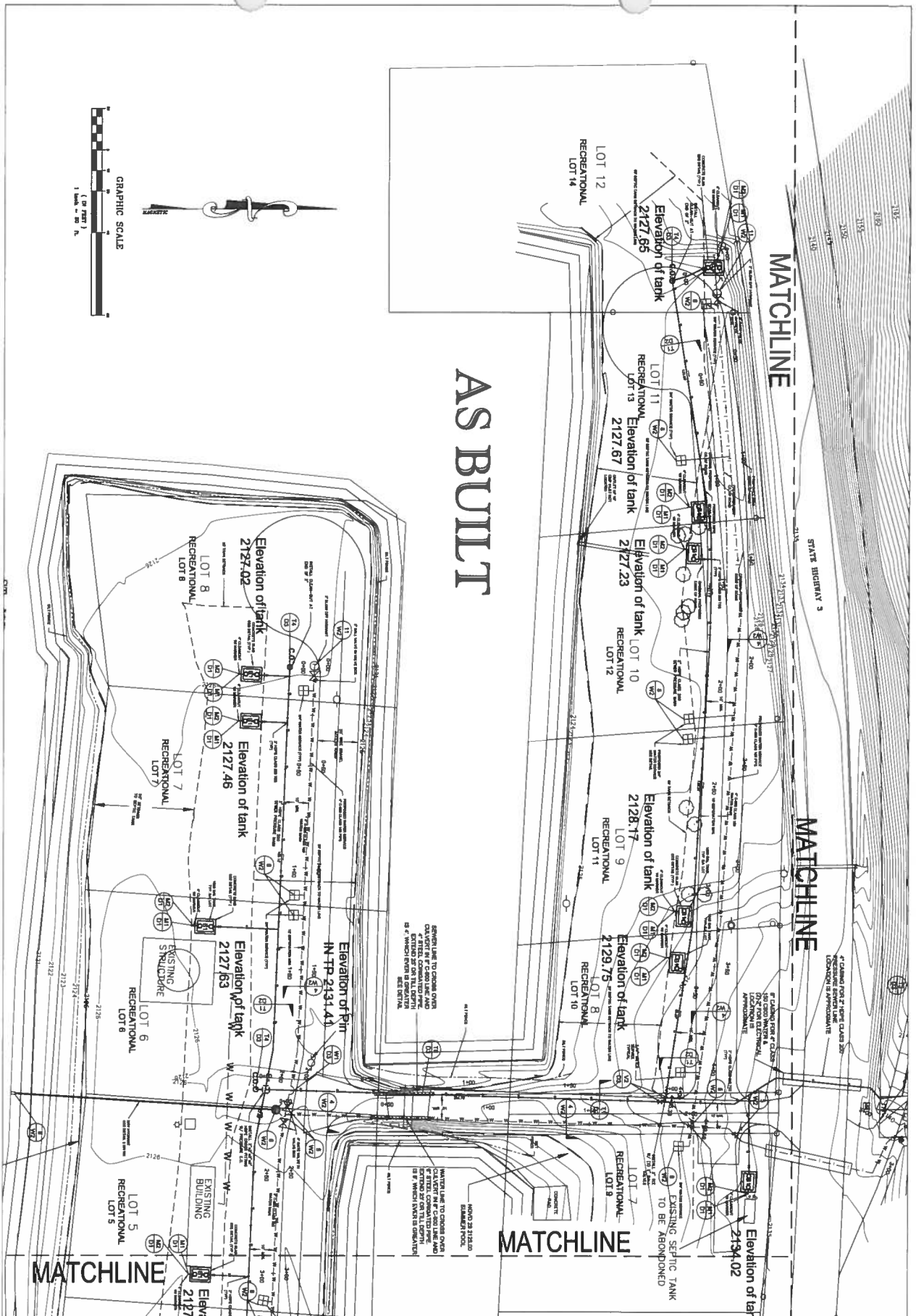




SHEET NO. [1]	DATE APRIL, 2006 DRAWN BY CJH DESIGN BY CJH JOB NO. 060206	SHEET TITLE FULL LAYOUT	JOB TITLE SYLVIA'S HAVEN COMMUNITY SEPTIC PLAN FOR PARCEL # 46N02W-07-TRACT 6&7 BENEAH COUNTY IDAHO	REVISION	DATE
				REV. A - ISSUED FOR PERMIT	4/06
				REV 1- REVISIONS PER DEQ	7/06
				ADVANCED WASTEWATER ENGINEERING CIVIL CONSULTING AND DESIGN POST FALLS, IDAHO 83854 (208) 457-8558	



SHEET NO.		L2	
JOB NO.		0602006	
DESIGN BY		CHH	
DRAWN BY		CHH	
DATE		APRIL, 2006	
SHEET TITLE		SLAND LAYOUT	
JOB TITLE		SYLVIA'S HAVEN COMMUNITY SEPTIC PLAN FOR PARCEL # 45N02W-07-TRACT 6&7	
BENEFIT COUNTY		IDAHO	
REVISION		DATE	
REV. A - ISSUED FOR PERMIT		4/06	



DATE		APRIL, 2006
DRAWN BY		GSH
DESIGN BY		GSH
JOB NO.		060106
SHEET NO.		13

SHEET TITLE		LOT LAYOUT
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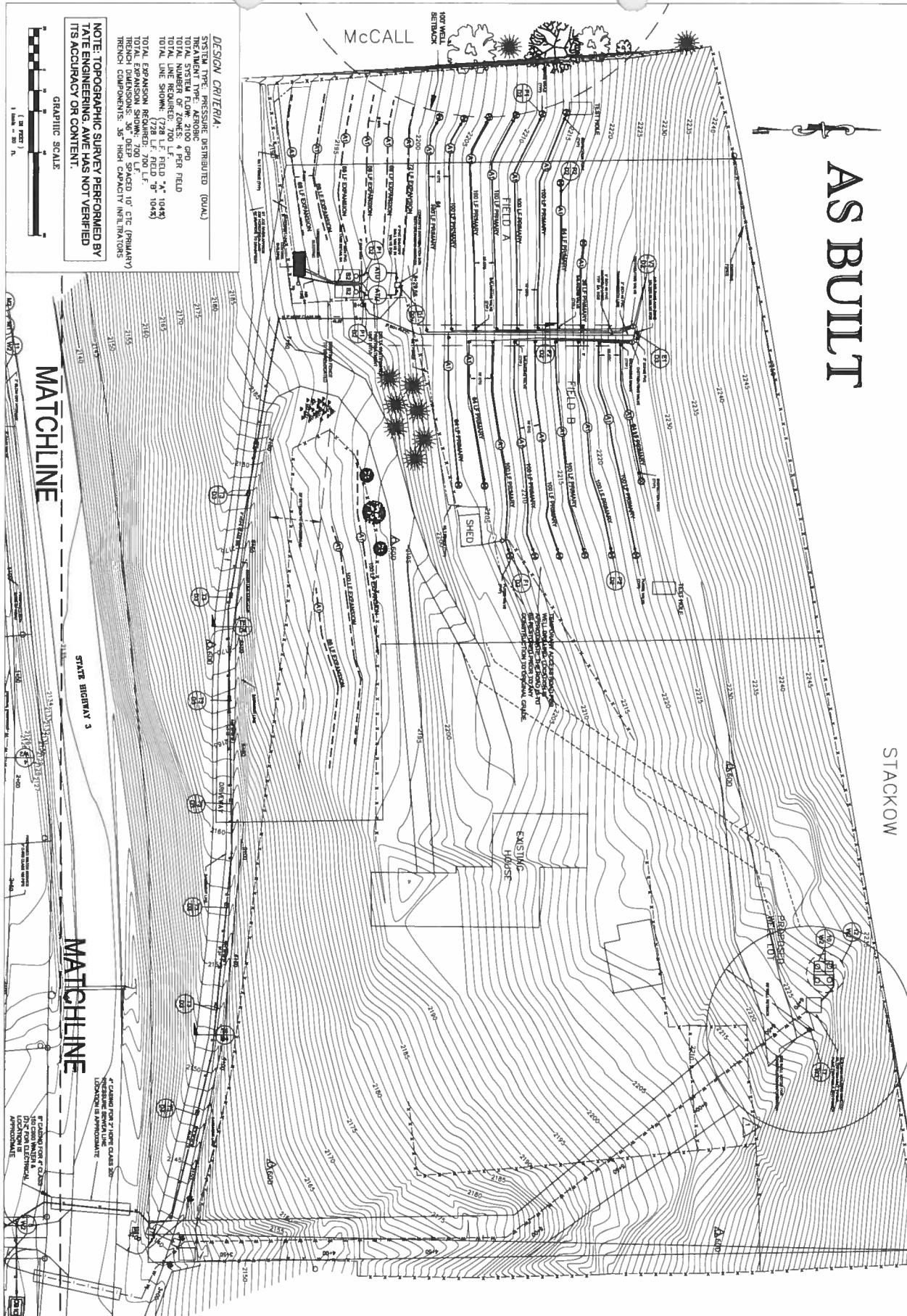
JOB TITLE		SYLVIA'S HAVEN COMMUNITY SEPTIC PLAN FOR PARCEL # 46N02W-07-TRACT 6&7 BENEWAH COUNTY IDAHO
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REVISION		DATE
REV. A - ISSUED FOR PERMIT		4/06

ADVANCED WASTEWATER ENGINEERING CIVIL CONSULTING AND DESIGN POST FALLS, IDAHO 83854 (208) 457 8558	
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AS BUILT

STACKOW



DESIGN CRITERIA:
 SYSTEM TYPE: PRESSURE DISTRIBUTED (DUAL)
 TREATMENT TYPE: AEROBIC
 TOTAL SYSTEM FLOW: 2100 GPD
 TRENCH SPACING: 36" HIGH CAPACITY INSTALLATIONS
 TOTAL LINE REQUIRED: 700 L.F. PER FIELD
 TOTAL LINE SHOWN: 728 L.F. FIELD "A" 104X
 TOTAL LINE SHOWN: 728 L.F. FIELD "B" 104X
 TRENCH DIMENSIONS: 36" DEEP SPACED TO C/C (PRIMARY)
 TRENCH COMPONENTS: 36" HIGH CAPACITY INSTALLATIONS
 NOTE: TOPOGRAPHIC SURVEY PERFORMED BY
 TATE ENGINEERING, INC. HAS NOT VERIFIED
 ITS ACCURACY OR CONTENT.

GRAPHIC SCALE

MATCHLINE

STATE HIGHWAY 3

MATCHLINE

SHEET NO. L4	DATE APRIL, 2006 DESIGNED BY GAIL DRAWN BY GAIL JOB NO. 060305	SHEET TITLE LEACHFIELD LAYOUT	JOB TITLE SYLVIA'S HAVEN COMMUNITY SEPTIC PLAN FOR PARCEL # 46N02W-07-TRACT 6&7 BENEAH COUNTY IDAHO	REVISION REV. A - ISSUED FOR PERMIT REV 1- REVISIONS PER DEQ	DATE 4/06 7/06	ADVANCED WASTEWATER ENGINEERING CIVIL CONSULTING AND DESIGN POST FALLS, IDAHO 83854 (208) 457 8558
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IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. WELL TAG NO. D0051680

DRILLING PERMIT N

Other IDWR No

2. OWNER:

Name **Bob Holland**

Address **Waterford Park Homes, LLC / P.O. Box 930**

City **Hayden**

State ID

Zip **83835**

3. LOCATION OF WELL by legal description:

N
Twp **46N** North ☒ or South ☐
Rge **02W** East ☐ or West ☒
Sec **07** 1/4 NE 1/4 NE 1/4
10 Ac 40 Ac 160 Ac
Gov't Lot _____ County **Benewah**
Lat _____ Long _____

xt maries hwy 69281

City **st maries**

Lot _____ Blk _____ Sub. Name (see next line)

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

7. SEALING PROCEDURES

SEAL/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
n/a				

Drive Shoe Used? ☐ Y ☒ N Shoe Depth(s)

Drive Shoe Seal Tested? ☐ Y ☒ N How?

8. CASING/LINER

Diam	From	To	Gauge	Material	Casng	Liner	Weld	Thrded
4	-10	640	0.200	pvc	☐	☒	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

- ☒ Perforations? Method **drill**
☐ Screens? Screen Type

From	To	Slot	Nmbr	Diam	Material	Casng	Liner
580	640	3/8	600	3/8	pvc	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

-10 ft. below ground. Artesian pressure **0** lb.

Depth flow encountered **375** ft. Describe access port or

control devices: **cap**

11. WELL TESTS

- ☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
12 gpm	100%	700	1hr

Water Temp. _____ cold Bottom hole temp. _____ cold

Water Quality test or comments: (below) Depth first Water Encountered **375**
cleat

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water	
6	400	630	med hard shale	☐ Y	☒ N
6	630	645	broken shale 2 to 3 gpm	☒ Y	☐ N
6	645	700	hard shale	☐ Y	☒ N
			could not get liner past 640	☐ Y	☐ N

RECEIVED
APR 30 2007
IDWR/North

Completed Dept **700** (Measurable)
Date: Started **4/23/2007** Completed **4/25/2007**

13. DRILLERS CERTIFICATION

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

Firm **United Drilling Inc.** Firm No **414**
Name

Firm Official **Timothy R. Volking** Date **4/26/2007**
and

Supervisor or Operator **Timothy R. Volking** Date **4/26/2007**

46N 2W 7

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

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

1. WELL TAG NO. **D0040692**

CORRECTED REPORT WELL TESTS:

DRILLING PERMIT N **835455**

Other IDWR No _____

2. OWNER:

Name **Bob Holland**

Address **Waterford Park Homes, LLC / P.O. Box 930**

City **Hayden**

State **ID**

Zip **83835**

3. LOCATION OF WELL by legal description:

N		Twp 46N	North ☒ or South ☐
W		Rge 02W	East ☐ or West ☒
E		Sec 07	1/4 NE 1/4 NE 1/4
S		10 Ac 40 Ac 160 Ac	
		Gov't Lot _____	County Benewah
		Lat _____	Long _____

Address of Well Site: (see next line)

St Maries Hwy 3 88281

City **St Maries**

Lot _____ Blk _____ Sub. Name (see next line)

4. USE:

- ☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☒ Other Test Well

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

- ☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

- ☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
Bentonite	0	-58	22 Bags	Dry Pour

Drive Shoe Used? ☒ Y ☐ N Shoe Depth(s) **-58**

Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casng	Liner	Weld	Thred
6"	+2	-58	0.280	Steel	☒	☐	☒	☐
4"	-10	-400	0.185	PVC	☐	☒	☐	☒
					☐	☐	☐	☐

Length Headpipe **60'** Length Tailpipe **390'**

9. PERFORATIONS/SCREENS

- ☒ Perforations? Method Drilled Liner
☐ Screens? Screen Type _____

From	To	Slot	Nmbr	Diam	Material	Casng	Liner
-340	-400	3/8"	200	4"	PVC	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

5 ft. below ground. Artesian pressure _____ lb.

Depth flow encountered **375** ft. Describe access port or

control devices: **Steel Cap Welded**

46N 2W 7

- ☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
10	100%	395	1 HR

Water Temp. _____ Cold Bottom hole temp. _____ Cold

Water Quality test or comments: (below) Depth first Water Encountered **70**

Clear, Cold, No Smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Lithology, Water Quality and Temperature	Water	
				Y	N
10	0	18	Shale Gray	☐	☒
10	18	21	Shale Tan	☐	☒
10	21	58	Shale Gray	☐	☒
6	58	110	Shale Gray 1 GPM	☒	☐
6	110	115	Shale Broken	☐	☒
6	115	122	Shale Gray	☐	☒
6	122	125	Shale Gray Broken	☐	☒
6	125	158	Shale Gray	☐	☒
6	158	170	Shale Broken 2 GPM	☒	☐
6	170	176	Shale Broken	☐	☒
6	176	210	Shale Gray	☐	☒
6	210	215	Shale Broken 2 GPM	☒	☐
6	215	235	Shale Black	☐	☒
6	235	270	Shale Gray	☐	☒
6	270	280	Shale Broken 1 GPM	☒	☐
6	280	370	Shale Gray	☐	☒
6	370	375	Shale Broken 4 GPM	☒	☐
6	375	400	Shale Gray	☐	☒

RECEIVED

AUG 22 2005

RECEIVED

SEP 1 2005

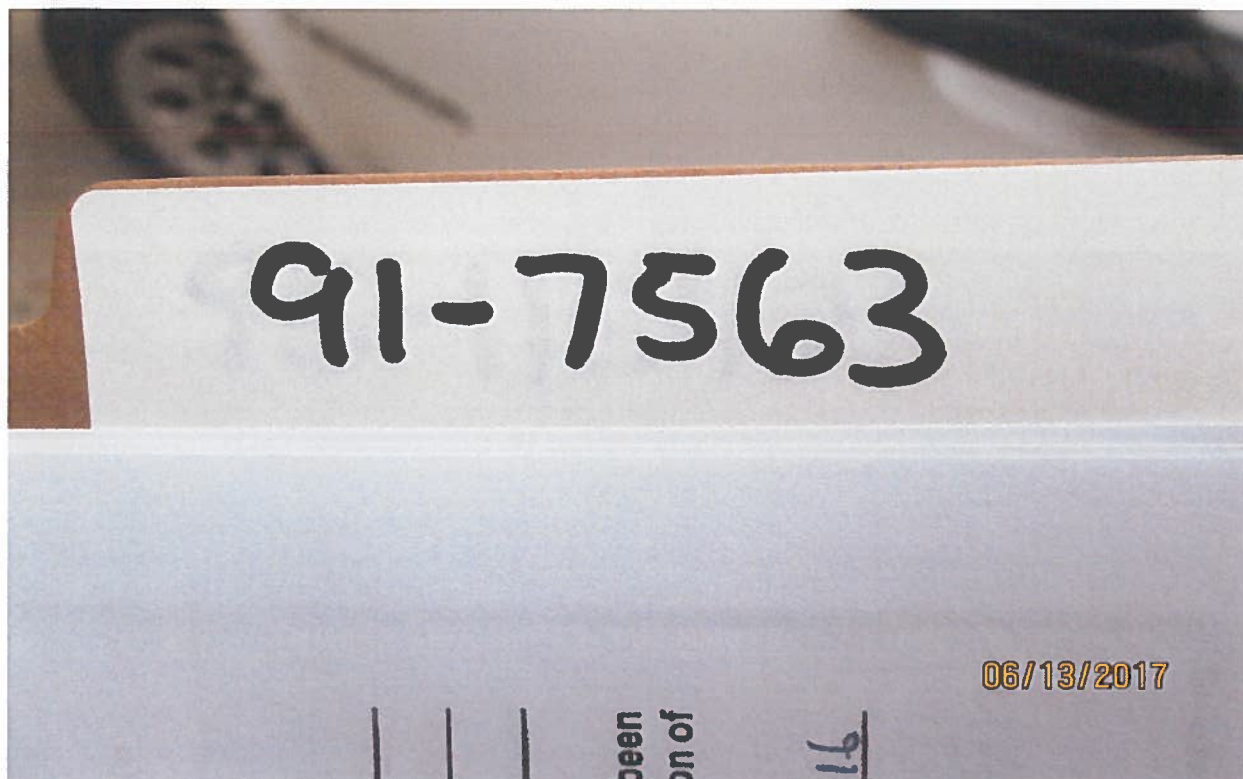
IDWR North

Completed Depth **400** (Measurable)
Date: Started **8/18/05** Completed **8/22/05**

13. DRILLERS CERTIFICATION

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

Firm Name **United Drilling Inc.** Firm No **414**
Firm Official **[Signature]** Date **8/23/05**
Supervisor or Operator **Curtis S. Hammond** Date **8/23/05**



Well D0040692, given IDWR tag A0015430.



Well tag D0040692.



Franklin SubDrive 150, system was using a 3hp 3 phase pump.



Flow meter on system with measurement of 24gpm.



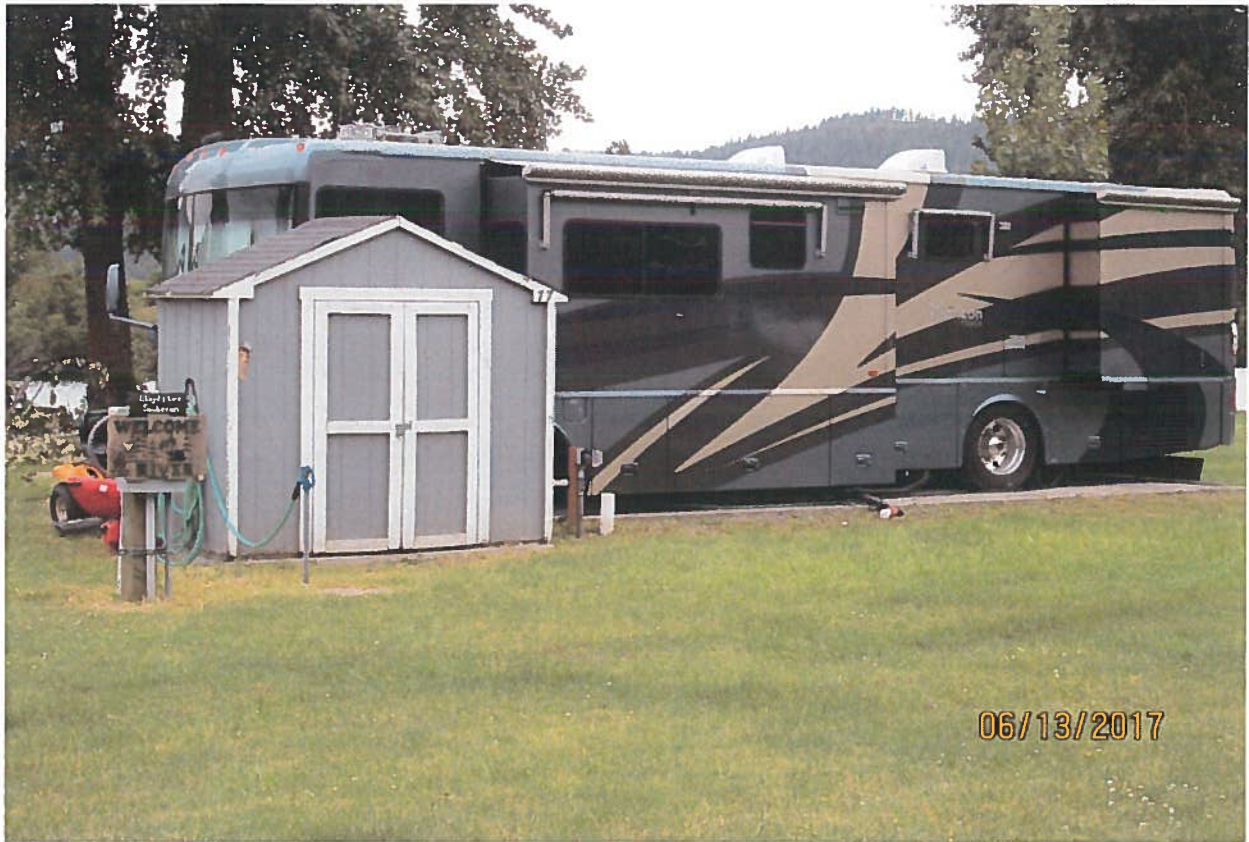
Applicant had two 2,000 gallon storage tanks.



Full time residence.



Seasonal use homes.



Seasonal use lots hooked up to septic.





Place of use.





Place of use.



