

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-7673

Exam Date: 5/16/2012

1. Current Owner: DON A SANDSTROM
29975 SWEETWATER LN
LAPWAI ID 83540
(208)843-5367

**Tax Lot information updated on 1/13/2012 confirms C. Jean Sandstrom as the owner, with the same address; physical address is the same as mailing address; 5.2 total acres.

2. Accompanied by: Not accompanied by anyone.

3. SOURCE

GROUND WATER

TRIBUTARY**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: A85-7209 Sandstrom Irrigation/stockwater (Sweetwater Creek) but the POU is undetermined within the CC for the 3.0 acres claimed, of the total 5.2 acres owned by Sandstrom; A85-11217 Sandstrom, Domestic (0.04 cfs internal/external use) from a different low producing well that was drilled in 1970).

2. Other water rights with the same point of diversion: None. 85-11217 Groundwater source is a different low-producing well that was drilled in 1970.

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

GROUND WATER L30 SW1/4SE1/4 Sec. 22, Twp 35N, Rge 04W, B.M.

NEZ PERCE County

Method of Determination: Garmin GPS Map 76S, ArcMap 2009 and 2011.

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
35N 04W 22	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	1.9 L 30
																	1.9

Total Acres: 1.9

PLACE OF USE: STOCKWATER

Twp Rge Sec	NE				NW				SW				SE				Totals
35N 04W 22	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	X L 30

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
35N 04W 22	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	X L 30

SRBA count
page shows
85-7209
has been
partial
decreed
but just
hasnt been
pushed over yet
4/22/2012
STH

PLACE OF USE: RECREATION and RECREATION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
35N 04W 22															X		
															L 30		

DIVERSION TO STORAGE same as RECREATION STORAGE

Method of Determination: Garmin GPS Map 76S, ArcMap 2009 and 2011.

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 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 Size</u>
D0013818	unknown	unknown	unknown	unknown	unknown

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

D. FLOW MEASUREMENTS**1. Measurements:**

No Theoretical, since Hp unknown.

Drillers Report Pump Test (for 2 hrs):

60 gpm X 0.00223 = 0.13 cfs

5-gallon Physical Measurement:(5 gallon X 60 sec)/16 sec = 18.75 gpm X 0.00223 = **0.04 cfs****Irrigation:**

1.9 acres X 0.03 cfs = 0.057 cfs

Recommend 0.04 cfs (capacity of the system)

Stockwater:

Proof of Beneficial Use states 20 head (2 horses on-site during the field exam).

Table 1. Recommended Diversion Rates for Stockwater: 0 – 25 head cattle/horses = 0.02 cfs

Recommend 0.02 cfs

Domestic:

IDWR Standard for Domestic 1-home internal use only (external use covered under irrigation component) = 0.02 cfs

Recommend 0.02 cfs

Recreation and Diversion to Storage:

Recommend 0.04 cfs (capacity of system to fill swimming pool)

RECOMMEND:

Irrigation 0.04 cfs, Stockwater 0.02 cfs, Domestic (internal use only) 0.02 cfs, Recreation 0.04 cfs, Diversion to Storage 0.04 cfs.

Total Diversion Rate: 0.04 cfs

E. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.9 \text{ acres} \times 4.0 = 7.6 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \text{ cfs} \times 290 \text{ days} \times 1.9835 = 23.0 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 7.6 \text{ af}$$

2. Volume Calculations for Other Uses:**Stockwater:**

$$V_{ir} = (20 \text{ head cattle/horses} \times 12 \text{ gpd} \times 365 \text{ days}) / 325,850 = 0.268 = 0.3 \text{ af}$$

$$V_{dr} = 0.02 \text{ cfs} \times 365 \times 1.9835 = 14.5 \text{ af}$$

$$V = 0.3 \text{ af}$$

Domestic:

IDWR Standard for Domestic 1-home internal use only (external covered under irrigation component) = 0.6 af

Recreation Storage:

$$\text{Swimming pool: } 30 \text{ ft} \times 20 \text{ ft} \times 6 \text{ ft} = 0.1 \text{ af}$$

RECOMMEND:

Irrigation 7.6 af, Stockwater 0.3 af, Domestic 0.6 af, Recreation Storage 0.1 af

Total Annual Volume: 8.7 af

F. NARRATIVE/REMARKS/COMMENTS

At the time of the field examination, the current owner was not present, and no one accompanied during the exam. The system consists of a groundwater source, 8 inch casing, with the casing extending 18 inches above the ground level. The depth of the well is 150 ft, with a 15 ft static, 20 psi, unknown size discharge to unknown size buried line throughout the property to risers and faucets coming directly off the side of the house foundation. The well was drilled on 9/28/2000 by Burns Well Drilling No. 103. On the drillers report, there was a pump test conducted for 2 hrs, with a yield of 60 gpm (which was for a short time period). A theoretical was not calculated, since the Hp was unknown. Beneficial use is for domestic for one home internal use only (external is covered by the irrigation component), stockwater for 20 head cattle or horses (since the proof of B/U stated that, even though at the time of the field exam there were only 2 horses on the property), recreation (a 20 ft X 30 ft X 6 ft swimming pool directly south of the house), recreation storage (the swimming pool); diversion to storage (diversion to the swimming pool), and irrigation for 1.9 acres involving the property surrounding the house immediately and the pastures to the north and west of the house. There is a 50 gallon stockwater tank on the east end of the corral, and risers and faucets with 3/4 inch hoses attached with misc size and type nozzles for irrigation. There is an inlet for the swimming pool and a riser close by that can be used for filling the pool.

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

G. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	02/15 to 11/30	0.040 CFS	7.60 AF
STOCKWATER	01/01 to 12/31	0.020 CFS	0.30 AF
DOMESTIC	01/01 to 12/31	0.020 CFS	0.60 AF
RECREATION	01/01 to 12/31	0.040 CFS	0.10 AF
RECREATION STORAGE	01/01 to 12/31		0.10 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.040 CFS	
<u>Totals:</u>		0.040 CFS	8.70 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

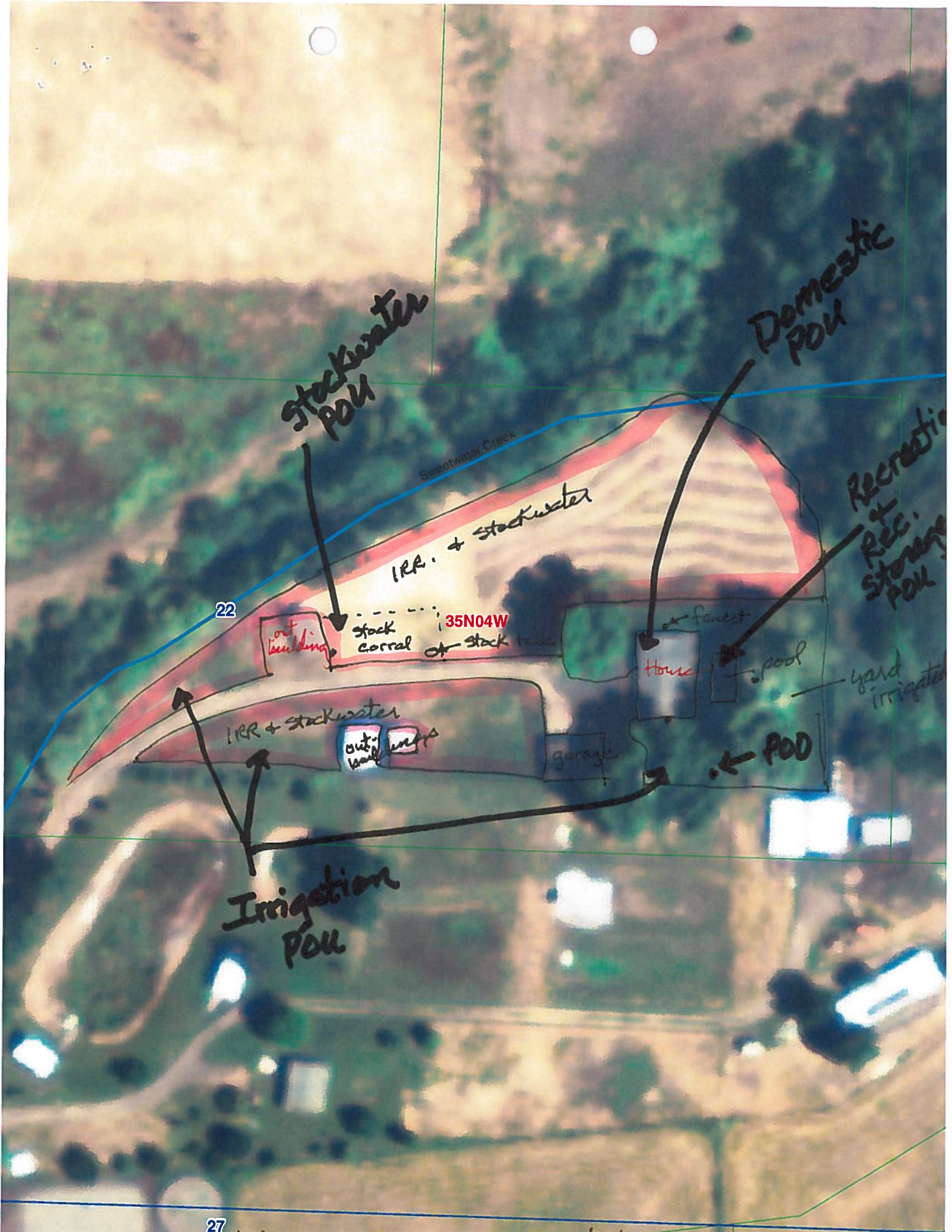
H. AUTHENTICATION

Field Examiner's Name

Sandy Hemenway

Date

6/19/2012



stockwater
pool

Domestic
pool

Recreation
+
Rec.
Storage
pool

Sweetwater Creek

IRR. + stockwater

22

out
building

stock
corral

35N04W

stock tank

House

pool

yard
irrigated

IRR + stockwater

out
building

garage

POD

Irrigation
Pool



POD
west
side
of house



POD
0013813
singing
18"
above
ground
level
3"
singing
50'
deep
15' static



Don't
know

85 - 7673 Sandstrom

S. Hemenway



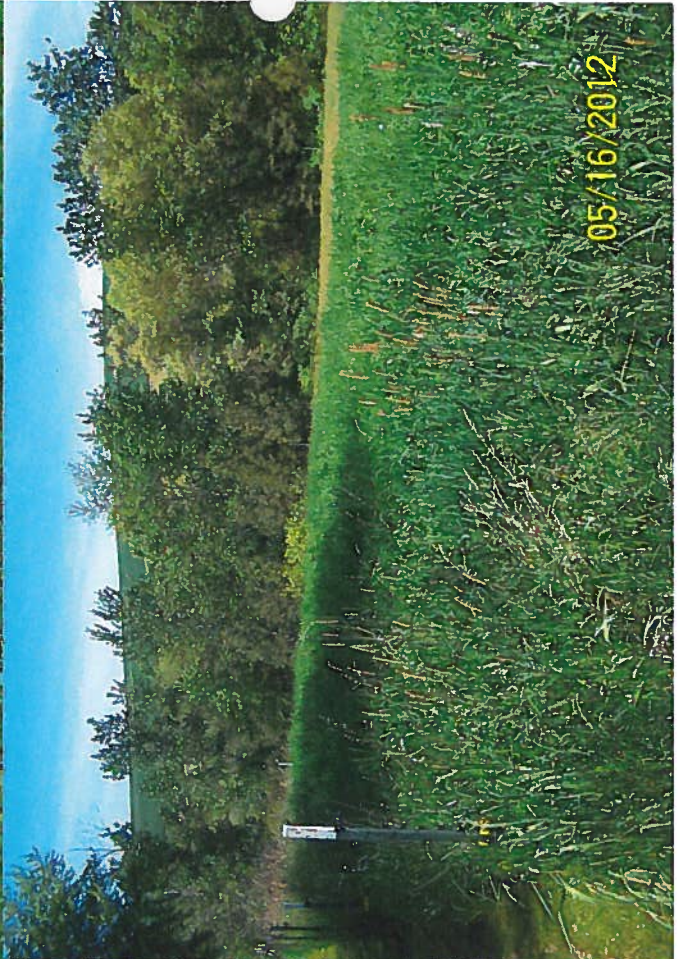
cc.
+ see.
storage
6'x30'
x6'
with
off
house



3/4"
hose
with
new
nozzle



stock



Pool
RR.
pasture
east
of
house

85-7673 Sandstrom

S. Hemmings



stock tank
located in
canal

85-7673 Sandstrom

S. Hemenway

RECEIVED

Form 2017
11/97

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

IDWR/North

1. WELL TAG NO. D 0013818

DRILLING PERMIT NO.

Other IDWR No. 766813

2. OWNER:

Name DON Sandstrom

Address Rt 1 Box 184b

* City Lewiston Lapwai State ID Zip 83532
Per-owner

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
E
S

Twp. 35 North ☒ or South ☐
Rge. 4 East ☐ or West ☒
Sec. 22 SW 1/4 SE 1/4 1/4
Gov't Lot 30 County US2 PERC
Lat. : : Long. : :
Address of Well Site 1/4 mile Wab Rd
Right Hand Side City Lewiston
(Give at least name of road + distance to Road or Landmark)

Lt. Blk. Sub. Name

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 or Pounds	
Bentonite	0	32	9 Sacks	Day Run

Was drive shoe used? ☒ N Shoe Depth(s) 32

Was drive shoe seal tested? ☒ N How? AIR

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8" +2	32	025	025	Steel	☒	☐	☒	☐
6" -25	145	025	025	Steel	☐	☒	☒	☐

Length of Headpipe Length of Tailpipe

9. PERFORATIONS/SCREENS

Perforations Method AIR Perforation

Screens Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
70	120	4 1/4"	600	6"	Steel	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

15 ft. below ground Artesian pressure lb.

Depth flow encountered 75 ft. Describe access port or control devices: Reversible Well Cap

35N 4W 22

FORWARD WHITE COPY TO WATER RESOURCES

W # 85-07630

Office Use Only

Inspected by

Twp Rge Sec

1/4 1/4 1/4

Lat. : : Long. : :

☒ Air ☐ Flowing Artesian

11. WELL TESTS:

☐ Pump ☐ Bailor

Yield gal/min.	Drawdown	Pumping Level	Time
60		140	24a

Water Temp. 61

Bottom hole temp.

Water Quality test or comments:

Depth first Water Encounter 15'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10"	0	4	Soil		
10"	4	32	Braker Rock	8	
8"	32	50	Fract Basalt		8
8"	50	65	LAUA		8
8"	65	75	Cyders	8	
8"	75	100	LAUA		8
8"	100	125	Fract Basalt	8	
8"	125	150	Basalt		8

\$200 fee paid receipt # N013965

Completed Depth 150' (Measurable)

Date: Started 9-23-00 Completed 9-28-00

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 Bore Well Drilling Firm No. 103

Firm Official Date

and

Driller or Operator Date 10-3-00

(Sign once if Firm Official & Operator)