

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 74-15983

Exam Date: 6/18/2014

1. Current Owner: ACE HARDWARE
1216 SHOUP ST
SALMON ID 83467
(208) 756-2513
2. Accompanied by: Dan (Ace Hardware Employee)
Phone No:
Address:
Relationship to Permit Holder: None

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: City of Salmon Municipal (75-17A)
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 SE1/4SW1/4 Sec. 5, Twp 21N, Rge 22E, B.M.

LEMHI County

Method of Determination: Site Visit, GPS (-113.885459, 45.173938)

2.

PLACE OF USE:**HEATING**

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
21N	22E	5											X						

PLACE OF USE:**COOLING**

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
21N	22E	5											X						

Method of Determination: Site Visit

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.

Well or Diversion**ID No.*****Motor Make****Hp****Motor Serial No.****Pump Make****Pump Serial No. or Discharge****Size**

D0062121

Ace

1 1/2

Unknown

Ace

*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: None

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Theoretical, based on system capacity furnished by applicant. Maximum system capacity is 30 gpm/448.83 gpm = 0.57 cfs

F. 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: Volume calculation are based figures submitted by the applicant indicating the total gallons per minute of flow through the system in a year. 30 gpm x 288 min/day = 8640 gal/day x 365 days = 3153600/325850 = 9.67 = 9.7 AF per year.

G. NARRATIVE/REMARKS/COMMENTS - The water necessary for the commercial use (bathrooms, break-rooms, and garden center are furnished by the municipal source. The heating/coolings system is the only use of the well.

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>
HEATING	01/01 to 12/31	0.07 CFS	9.7 AF
COOLING	01/01 to 12/31	0.07 CFS	9.7 AF
<u>Totals:</u>		0.07 CFS	9.7 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 Karin Matthews Date 6.18.14
Reviewer _____ Date _____



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-  Township/Range
-  Sections
-  QQ

0 0.0075 0.015 0.03 Miles



Salmon Ace Hardware
1216 Shoup Street
Salmon, ID 83467
208-756-2513
salmonacehardware@gmail.com

6/27/14

Re: Water usage information & Heat Pump layout.

Non-consumptive use

System includes 4 Geothermal Heat Pumps which provide heating and cooling to our 17,000 sq foot store.

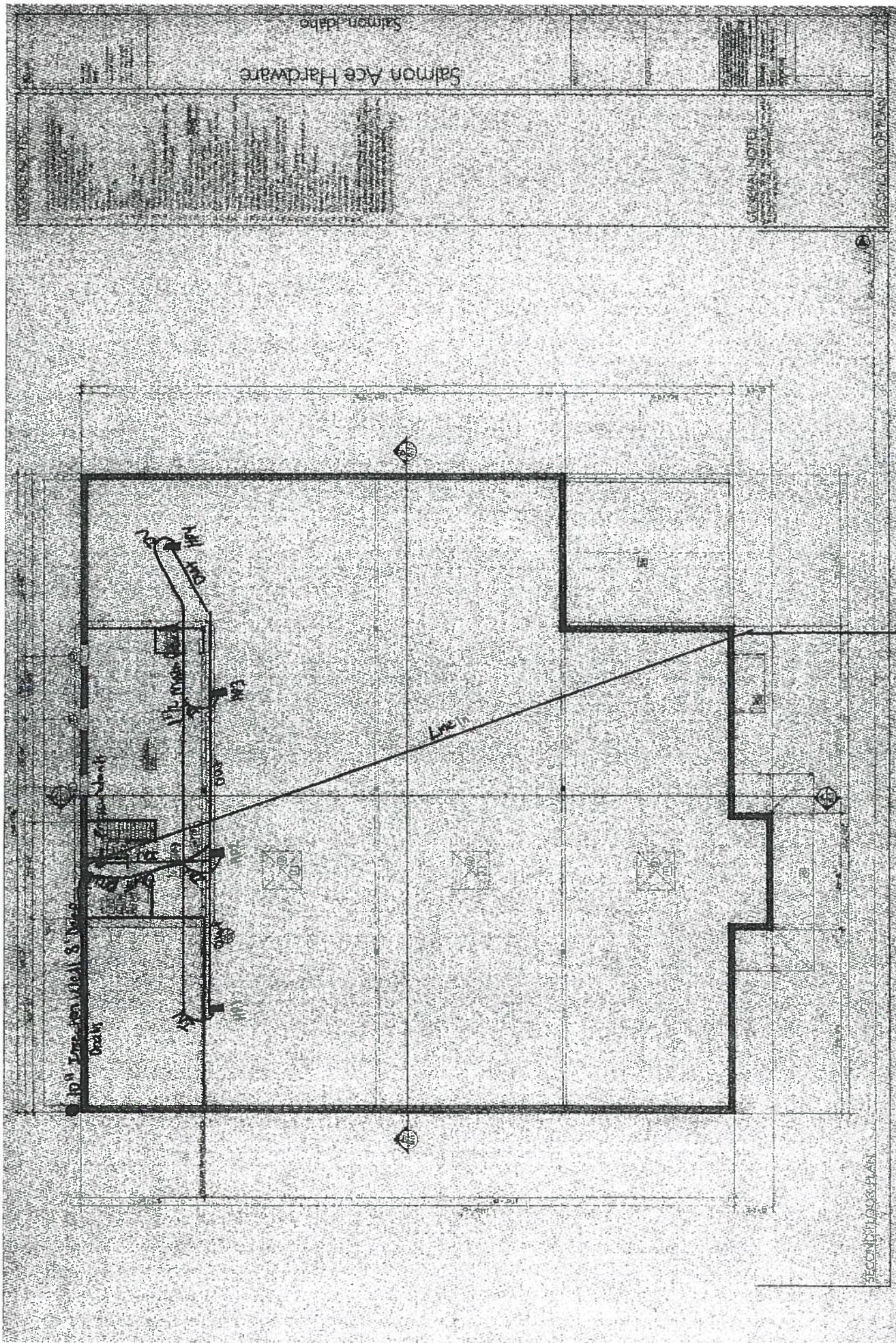
Our Heat pumps use water from an 8" well located in a planter in our parking lot. The water is circulated through the Heat Pumps and then discharged in to a shallow well located in the NW corner of the building.

The system at full capacity use 30 GPM, currently the average system usage is a 20% per day (24 hour period) . This also factors in low and high peak times for both summer and winter.

288 minutes a day x 30GPM = 8640 Gallons per day
8640 GPM x 356 Days= 3,075,840.00 Gallons per year

Greg Mildon
President- Mildon Home Center Inc.

A handwritten signature in black ink, appearing to be 'GM' or similar initials, written in a cursive style.



1 1/4 Poly Line

8" Well Located in front planter

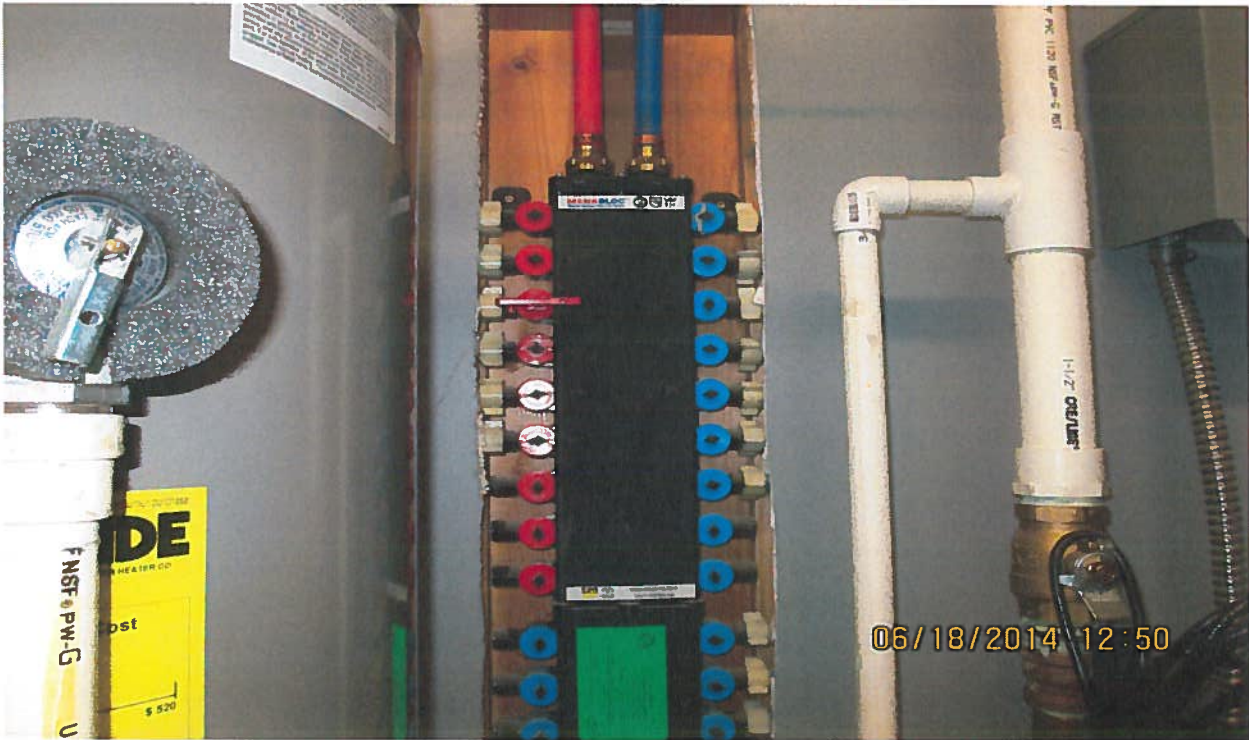
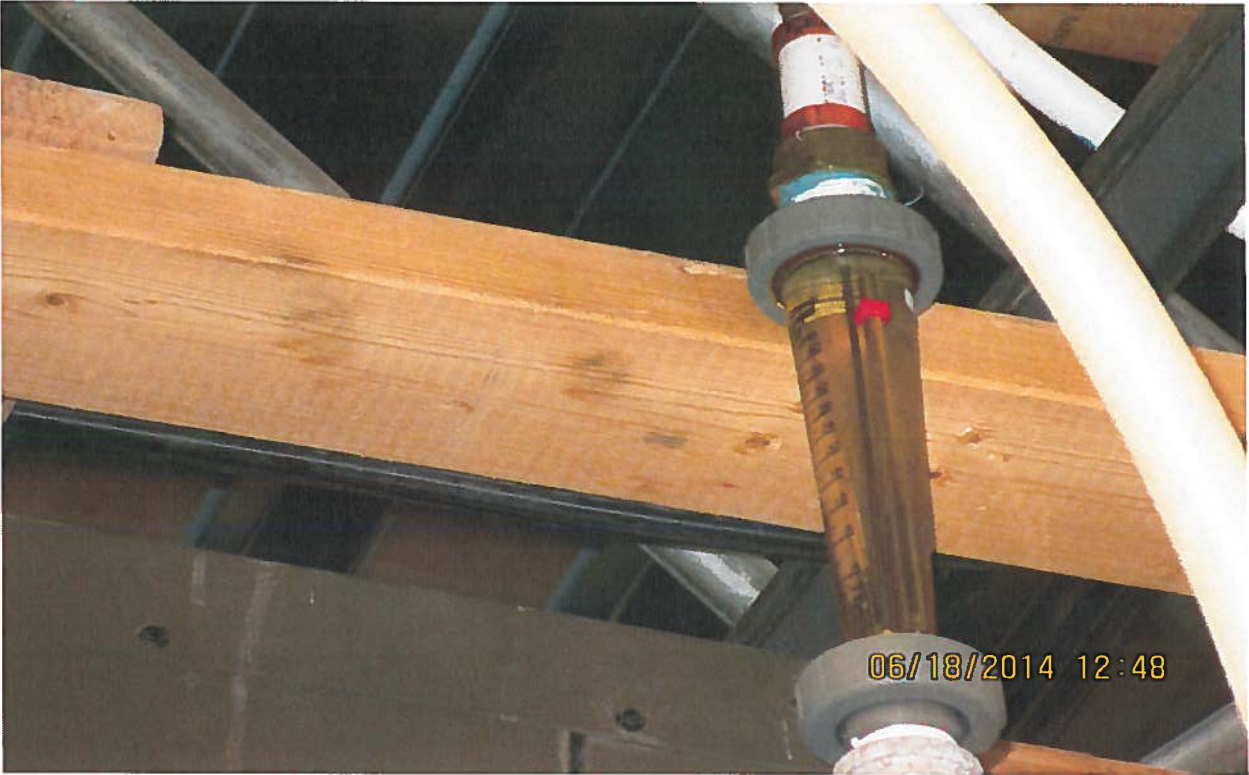
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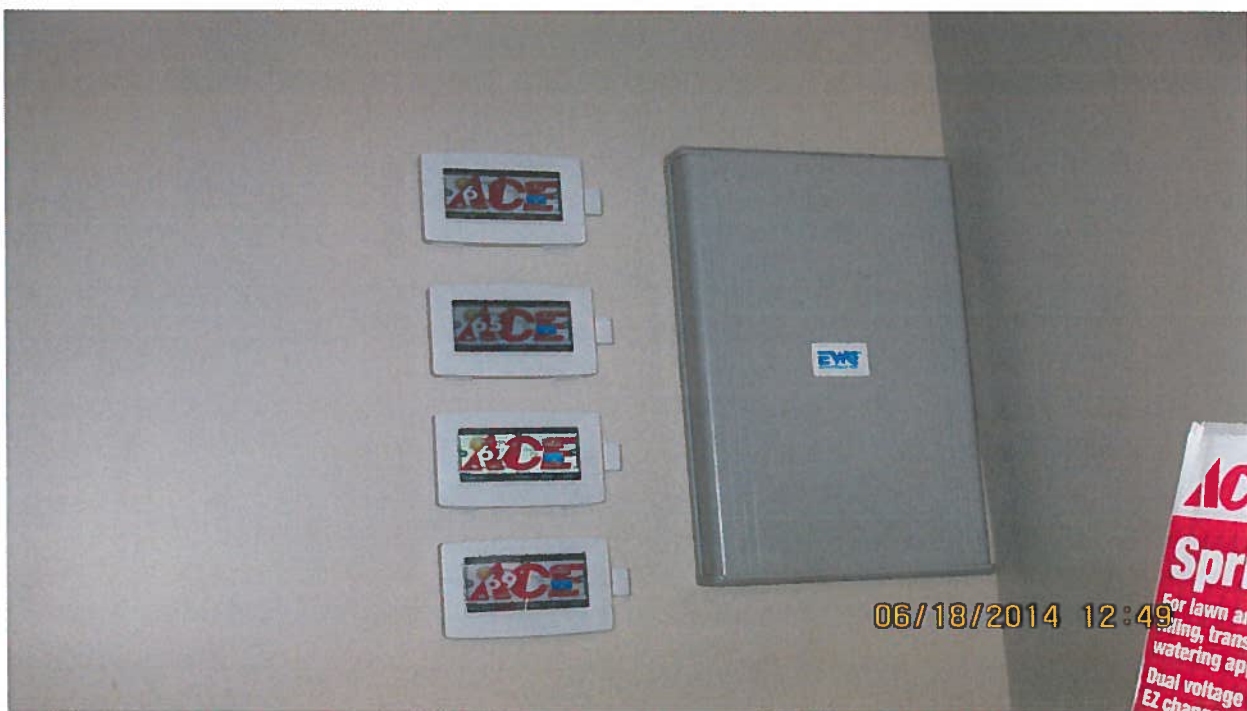


Well Location -113,885459, 45.173938









IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0062121

Drilling Permit No. _____

Water right or injection well # _____

2. OWNER: Greg & Bridget Mildon

Name Greg & Bridget Mildon

Address PO Box 783

City Salmon State ID Zip 83467

3. WELL LOCATION:

Twp. 21 North ☒ or South ☐ Rge. 22 East ☒ or West ☐

Sec. 5 1/4 NW 1/4 SW 1/4

Gov't Lot _____ County Lemhi

Lat. 45 10.425 (Deg. and Decimal minutes)

Long. 113 53.110 (Deg. and Decimal minutes)

Address of Well Site 1210 Shoup Street

City Salmon

(Give at least number of road + distance to road or landmark)

Lot _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☒ Other for heat pump

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
concrete grout	0	18	900 lbs	pumped

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Linear	Threaded	Welded
8"	+1	40	.250	steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 40'

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method star perforator

Manufactured screen ☐ Y ☒ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
22	34	.1875	33		steel	.250

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
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11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) _____ Static water level (ft) 8

Water temp. (°F) cold Bottom hole temp. (°F) cold

Describe access port sanitary well seal

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
40	60	120	☐	☐	☒	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
10	0	4	top fill		☒
	4	10	boulders		☒
	10	18	boulders clay	☒	
8	18	20	gravely clay	☒	
	20	28	gravel sand	☒	
	28	32	tan clay		☒
	32	40	grey clay		☒

RECEIVED

OCT 17 2012

DEPT. OF WATER RESOURCES
SOUTHERN REGION

Completed Depth (Measurable): 40 feet

Date Started: 9/5/2012

Date Completed: 9/11/2012

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 Harber Drilling Co. No. 430

*Principal Driller Alan Harber Date 9/13/2012

*Driller _____ Date _____

*Operator II Alan Harber Date 9/13/2012

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.