

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-16843

Exam Date: 7/15/2008

1. Current Owner: CITY OF FILER
PO BOX 140
FILER ID 83328
(208)326-5000
2. Accompanied by: Bud Compher
Phone No: (208) 326-5001
Address: 300 Main St, Filer Idaho 83328
Relationship to Permit Holder: Public Works Director

3. **SOURCE** **TRIBUTARY**
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 47-2399, 47-7717, 47-7840, 47-4145, 47-4144
2. Other water rights with the same point of diversion: 47-2399, 47-7717, 47-7840, 47-4145, 47-4144
3. Water right 47-7623 is used for the City's pool and not connected to the municipal system.
4. The Public Works Director Bud Compher has provided a new map to the service area.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER	SW 1/4SW 1/4NE 1/4	Sec. 8,	Twp 10S,	Rge 16E, B.M.
TWIN FALLS County				
GROUND WATER	SW 1/4SW 1/4NE 1/4	Sec. 8,	Twp 10S,	Rge 16E, B.M.
TWIN FALLS County				
GROUND WATER	NW 1/4NE 1/4SW 1/4	Sec. 8,	Twp 10S,	Rge 16E, B.M.
TWIN FALLS County				
GROUND WATER	SE 1/4SE 1/4NE 1/4	Sec. 7,	Twp 10S,	Rge 16E, B.M.
TWIN FALLS County				
GROUND WATER	NW 1/4SW 1/4NW 1/4	Sec. 17,	Twp 10S,	Rge 16E, B.M.
TWIN FALLS County				

Method of Determination:

2. PLACE OF USE: MUNICIPAL

Place of use is within the City of Filer and surrounding service area.

[illegible]

Method of Determination:

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>
#1 (E0006706)	Franklin	10	N/A	Berkeley	6T1090-6
#2 (E0006708)	U.S. Electric	10	2331901	Peerless	84211
#3 (E0006707)	U.S. Electric	50	B02N329R10	Layne & Bowler	N/A
#5 (E0006706)	G. E.	50	ARJ124305	Aurora	3X971015
#7 (E0007886)	U.S. Electric	125	60602174321-100R	J-Line	N/A

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Panametrics	Sonic	GE	PT 878	277960		3/27/2008
Fuji	Sonic	Fuji		240332		3/27/2008

2. Measurements:

Using the Fuji polysonic flow meter, a measurement was taken on well #1 to determine flow capacity.

Using the Panametrics flow meter, measurements were taken to determine the flow capacity of wells #3 & #7.

We were unable to take a flow measurement on well #2 due to insufficient space to place meter on pipe. The flow was determined from the systems mag meter. We were unable to obtain a measurement at the well head on well #5, the flow was determined from the instantaneous flow reading of the McCrometer and the reading from the Mag meter. A measurement was taken on an under ground pipe to verify the accuracy of the McCrometer on well #5 to be within $\pm$ 5% error.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

Polysonic Flow meter: 0.34 cfs (151.0 gpm) Well #1
 Panametrics Flow meter: 2.69 cfs (1208.4 gpm) Well #3
 1.17 cfs (525.1 gpm) Well #5
 4.59 cfs (2061.8 gpm) Well #7
 *No measurement taken on Well #2

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: N/A

G. NARRATIVE/REMARKS/COMMENTS

In November, 2002 the City of Filer filed an Application for Permit 47-16843 for an additional 4.90 cfs for municipal use. The permit is for additional water above the current water rights for the City of Filer, from any to their five wells. The City of Filer filed Proof of Beneficial use on October 13, 2004 the proof was due by December, 2004. A field exam was conducted with the following results.

The City of Filer has a total of five (5) wells for municipal purposes within their service area. The five (5) wells are identified as well #1, #2, #3, #5 and #7. Permit 47-8438 is for a new well drilled (well #7) in 2/2002 to be added to the existing system, which also included a new one-million gallon storage tank, pump house with three boosters (50 HP, 60 HP and 100 Hp) and a well house. There is an additional six-hundred gallon storage tank and three boosters (10 HP, 15 HP, and 25 HP) associated with well #1. Permit 47-16843 is for all five (5) wells for capacity development.

Well #7 under permit 47-8438 is for 0.67cfs (approximately 330.71 gpm). The measured flow capacity of this well was 2061.8gpm which equals 4.59cfs using the Panametrics PT 878 flow meter. This well is capable of producing more than 0.67 cfs authorized under this permit. Therefore I am recommending Permit 47-8438 for 0.67 to be licensed.

Permit 47-16843 is for an additional 4.90 cfs (2199 gpm) total for all five (5) wells.

Well #1 is currently under water right 47-4144 for 0.33 cfs (148.11 gpm). A measurement was taken using a Fuji polysonic flow meter, resulting in 0.34 cfs (151.0 gpm), so no additional flow capacity was developed.

Well #2 is currently under water right 47-4145 for 0.28 cfs (125.67 gpm). We were unable to obtain a flow measurement because of insufficient space to place meter on pipe. Although the mag meter in the pump house recorded 120 gpm from this well, so no additional flow capacity is available.

Well #3 is currently under water rights 47-2399 and 47-7717 with a total of 2.78 cfs (1247.74 gpm). A measurement was taken using the Panametrics PT 878 flow meter resulting in a flow of 1208.4 gpm (2.69 cfs), so no additional flow is available

Well #5 is currently under water right 47-7840 for 0.89 cfs (399.45 gpm). The McCrometer instantaneous flow reading was 525 gpm which corresponded to the mag meter reading of 525 gpm at the well house (1.17 cfs). From these measurements an additional 0.28 cfs (125.55 gpm) could be developed. A measurement was taken to verify the accuracy of the McCrometer using the Panametrics PT 878 flow meter resulting in a + 3.86 % accuracy.

Well #7 currently has the capacity to produce 4.59 cfs (2061.8 gpm). After licensing of permit 47-8438 for 0.67 cfs (330.71 gpm) there is an additional flow of 3.92 cfs (1758.4 gpm) developed.

Under permit 47-16843 an additional 0.28 cfs (125.6 gpm) was developed from well #5 and 3.92 cfs (1759.4 gpm) was developed from the new well #7. This allows for a total of 4.2 cfs to be licensed under permit 47-16843

I am recommending Permit 47-16843 to be licensed for 4.2 cfs (1884.0 gpm).

The City of Filer has a pending transfer to consolidate all water rights and wells for the entire municipal system, once permit 47-8438 is licensed.

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>
MUNICIPAL	01/01 to 12/31	4.200 CFS	
<u>Totals:</u>		4.200 CFS	

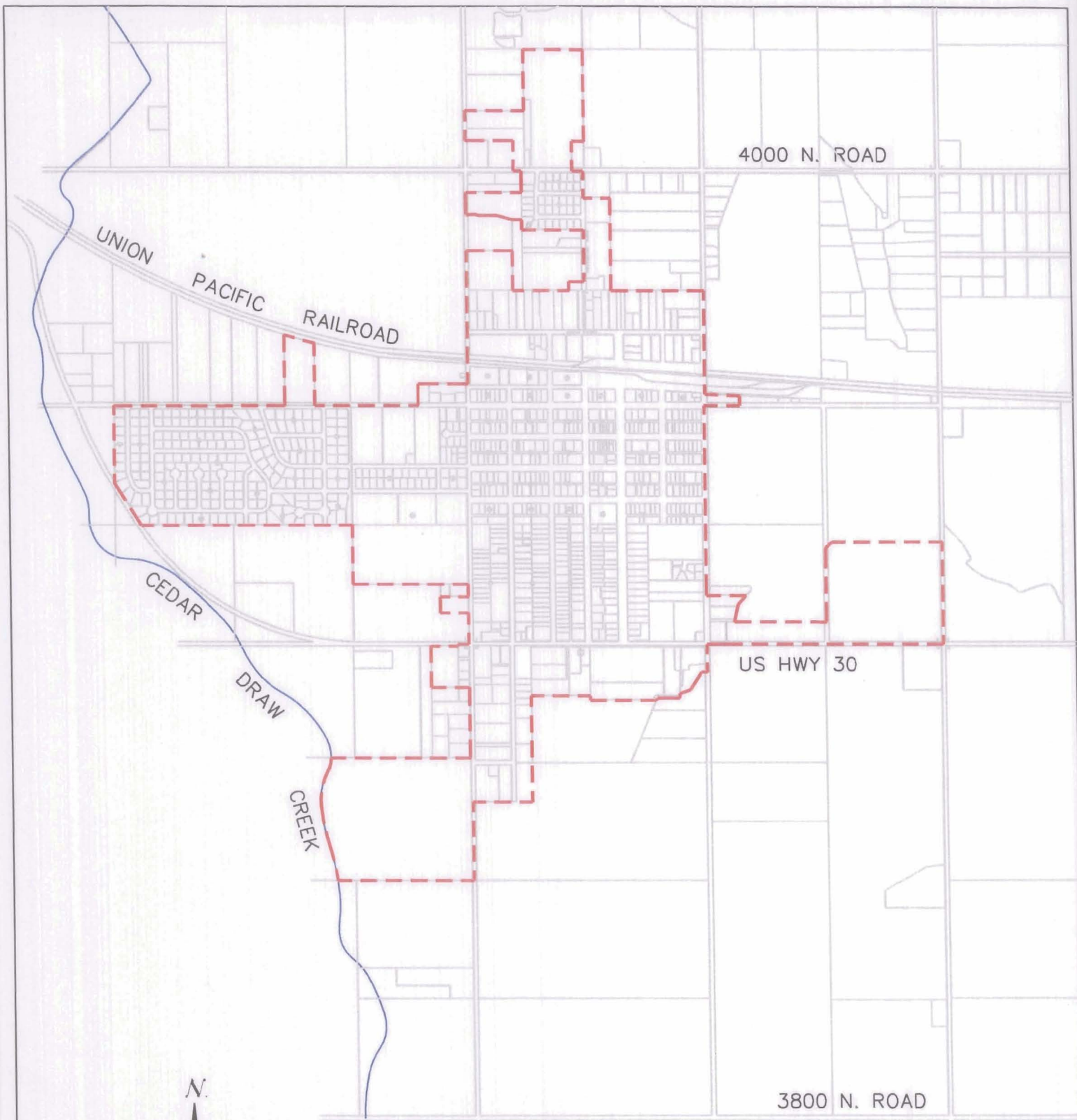
2. Recommended Amendments

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

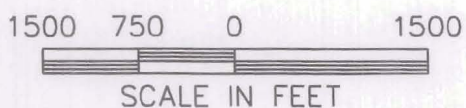
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

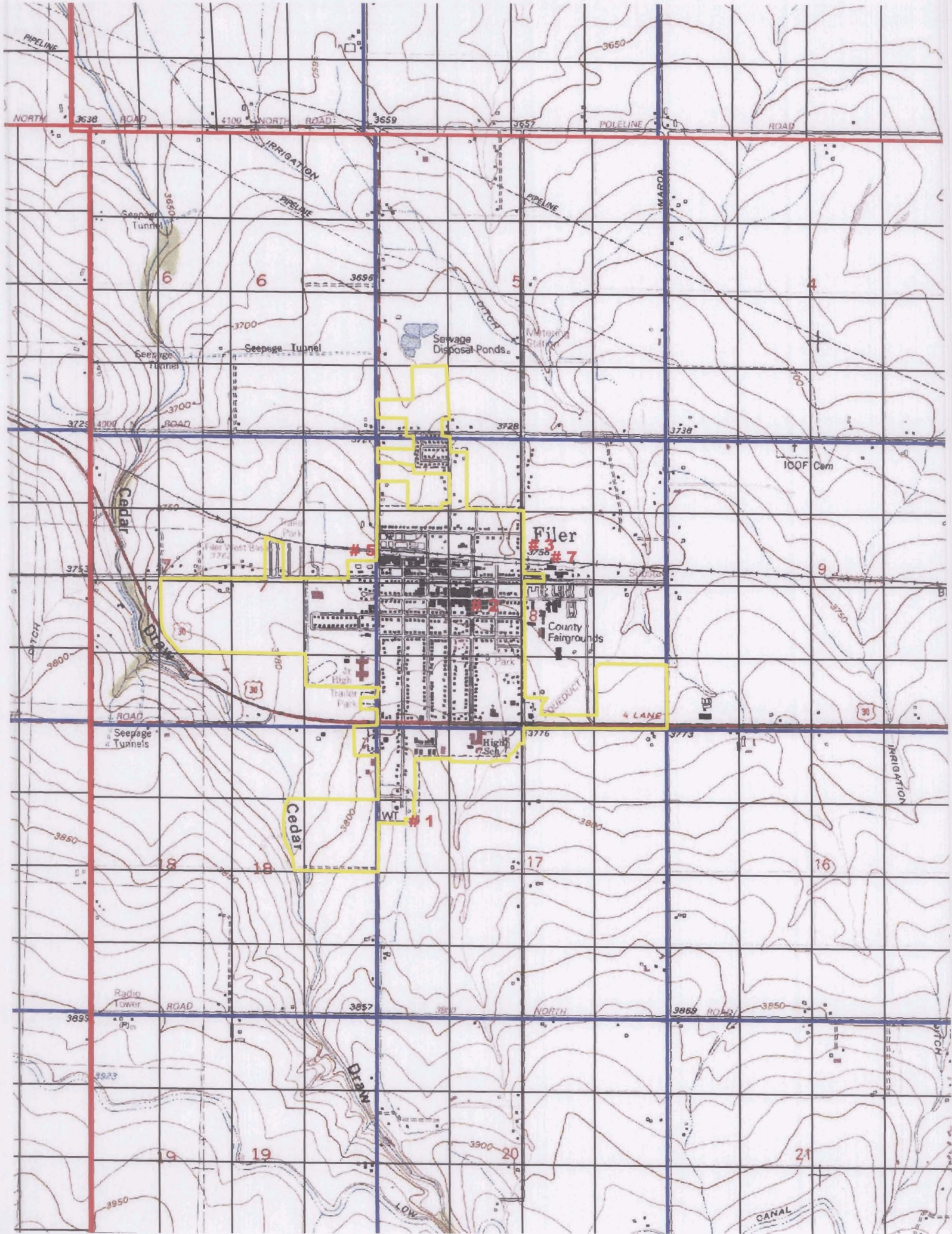
Field Examiner's Name Benny Walker Date 9/18/08
Reviewer _____ Date _____



--- EXISTING WATER SERVICE AREA/CITY LIMITS



CITY OF FILER WATER SERVICE AREA/CITY LIMITS





Well #1 E0006705 10 hp
3 Booster Pumps (10hp, 15hp, 25hp)



600,000 gal storage tank
Associated with well #1



Well #2 E0006708 10hp



Well #5 E0006706 50hp



Well #3 E0006707 50hp

Well #7 E0007886 125hp



Boosters (50hp, 60hp, 100hp) located in new pump house from main storage tank (both shown in photo below). All 5 of the City of Filer's wells feed into the main storage tank and then are pumped via the boosters to the service area.



New Pump House

New Million Gallon Storage Tank

TWIN FALLS, IDAHO

March 7, 2003

Date 4/9/03 By _____

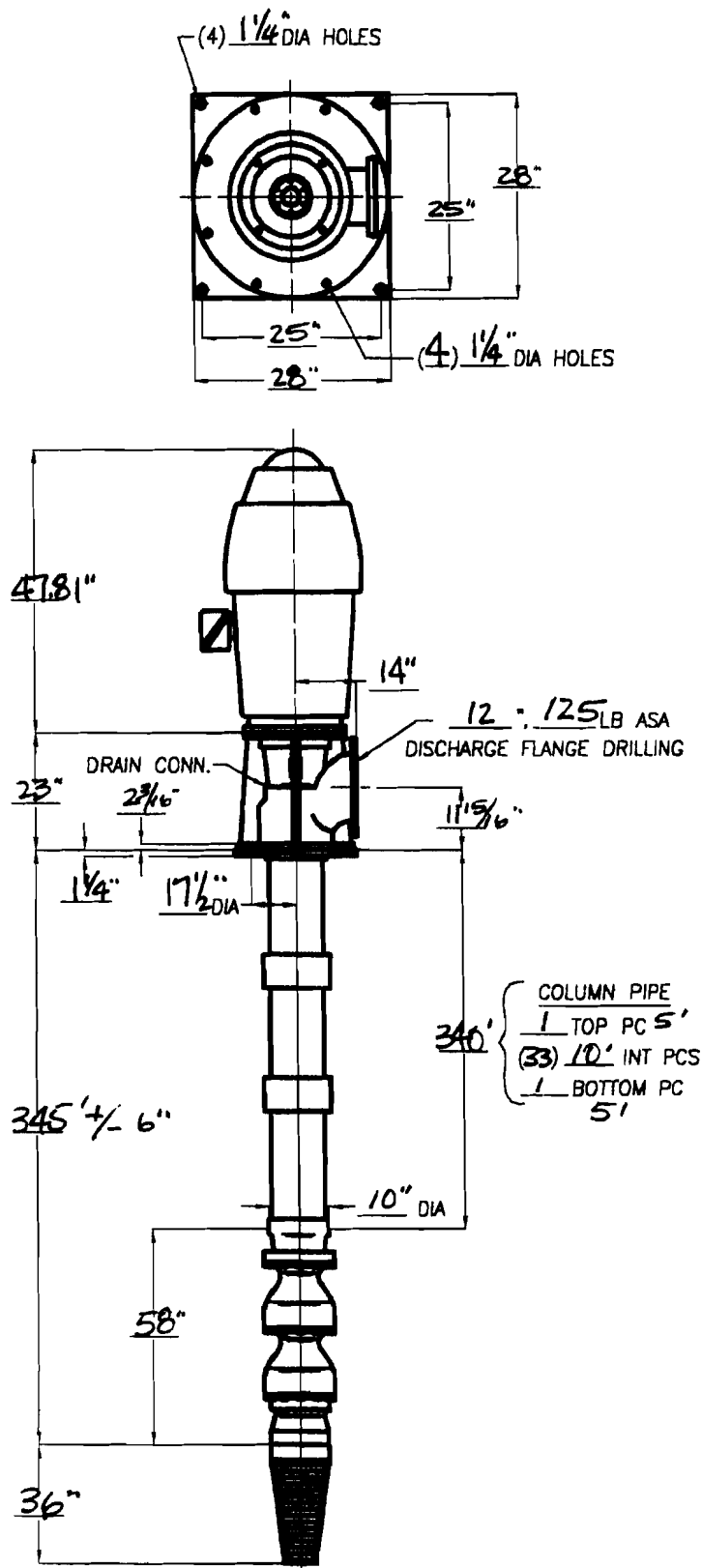
Column couplings to be steel.

"YOUR TOTAL PUMP SUPPLIER"

J^oLINE

DEEP WELL TURBINE PUMP ELECTRIC MOTOR DRIVEN WATER OR OIL LUBRICATED

Specifications
Page A2-B2



MATERIAL OF CONSTRUCTION

Bowl	Impeller
Bowl Shaft	Shaft Coupling
Bowl Bearings	Shaft Bearings
Strainer	Bowl W/R
Impeller W/R	Column Pipe
Lineshaft	Packing
Base Plate	Head

PUMP

Type 12WC	Discharge Head TR12HD
Suction 10"	Discharge 12"
Lineshaft 1 1/2"	Column 10"
Lubrication - WATER	Model
Stage 4	GPM 2000
TDH 182	Trim Factory
RPM 1760	BHP 125

MOTOR

Make US MOTORS	Type VHS
Enclosure WP-1	NRR - 1 1/2"
SRC -	HP 125
RPM 1800	Phase
Hertz 60	Voltage 460
Frame No. 444 TP	Type Coupling -

OTHER SPECIFICATIONS

Drawing No.	Serial No.
Fluid - WATER	Spec. Gravity 1.0
Viscosity	Temperature 60°F
PH	No. Units Required 1

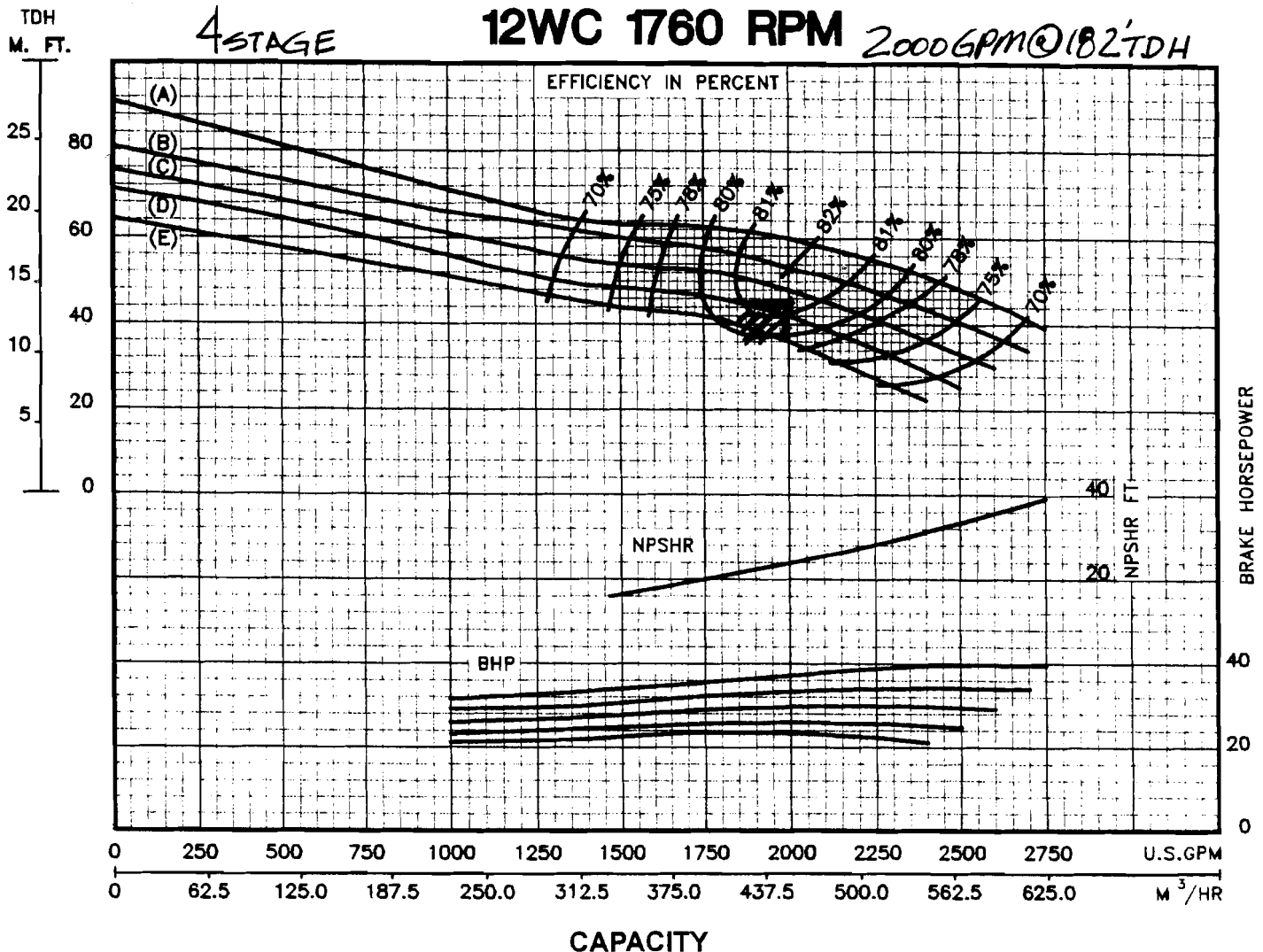
Customer	City of Filer		
Address			
City	ST	ZIP	
Tel. ()	Fax. ()		
Rep.			
Supplier	Harris Const / Pump Tech Co.		
Salesman	Barry Cazier		

125 H.P.

well # 7

J_WLINE[®]**TURBINE PUMP CURVE**

JANUARY 1995

**IMPELLER DATA**

Impeller Number:	4777	TRIM: (A) 10.063" X 30.5"
Material:	BRONZE	(B) 9.813" X 30.5"
Type:	CLOSED	(C) 9.563" X 30.5"
Thrust Factor:	K=16.20	(D) 9.313" X 30.5"
Eye Area:	29.70 sq. in.	(E) 9.063" X 30.5"
Weight:	21.00 lb.	Minimum submergence above eye of bottom impeller: 30 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	4771 C.I./ENAM.
Bowl Dia.	12.188 in
Max. No. Stages	10
One Stage Weight	415 lb
Add'l Stage Weight	140 lb
Std. Shaft Dia.	1.688 in
Std. Lateral	0.750 in
Discharge Size	8 - 10 in
Suction Size	8 - 10 in
Max. Sphere Size	1.375 in
Max. Operation P.S.I.	584

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.

Basin 47

ID 343438

App 868784

Per 771515

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. 0016677

DRILLING PERMIT NO. _____

Other IDWR No. _____

RECEIVED

2. OWNER:

Name CITY OF FILER

APR 03 2002

Address P.O. BOX 140

Department of Water Resources

City FILERSub Southern Region

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N			
S			

Twp. 10 North ☐ or South ☒
Rge. 16 East ☒ or West ☐
Sec. 8 1/4 SW 1/4 NE 1/4
Gov't Lot _____
Lat: _____ Long: _____
Address of Well Site FAIR AVE NORTH OF RR

TRACKS AT BEET DUMP

(Give at least name of road - Distance to Road or Landmark)

City FILER

Lt. _____ Bk. _____ 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 Sacks or Pounds	METHOD
Material	From	To		
BENTONITE	0	120	53	OVERBORE

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
16	+1	120	875	STEEL	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations

Method

Screens

Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

_____ ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
2100		200	

Water Temp. 56

Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Start Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
19	0	3	SURFACE DIRT		X
	3	5	BROKEN		X
	5	38	GREY BASALT		X
	38	50	RED BASALT		X
	50	53	BROKEN 1ST CIRCULATION		X
	53	65	GREY BASALT		X
	65	73	BLACK & TALC	X	
	73	85	BROWN BASALT		X
	85	107	GREY BASALT		X
	107	111	RED ASH		X
	111	117	BLACK & TALC BROKEN	X	
	117	119	GREY BASALT		X
12	119	127	BROWN BASALT		X
	127	131	BROKEN & TALC	X	
	131	134	SOLID		X
	134	138	SOFT LOTS TALC	X	
	138	145	BLACK BASALT		X
	145	151	BLACK SOFT BASALT		X
	151	157	BROKEN LOTS TALC	X	
	151	157	LARGE CINDERS	X	
	157	170	SOLID		X
	170	179	SOFTER		X
	179	182	TALC LARGE CINDERS	X	
	182	196	BLACK BASALT		X
	196	215	HARD GREY BASALT		X
	215	221	BROKEN SOFTER BASALT		X
	221	231	HARD GREY		X
	231	233	BROKEN LOTS TALC		X
	231	233	LARGE CINDERS		X
	233	239	GREY BASALT		X
	239	242	BROKEN BASALT		X
	242	258	GREY BASALT		X

TO BE CONTINUED ON NEXT PAGE

Completed Depth 410 (Measurable)
Date: Started 01/28/02 Completed 03/20/02

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 WALKER WATER SYSTEMS INC. Firm No. 15Firm Official [Signature] Date 03/28/02

and

Driller or Operator _____ Date 03/28/02

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

FORWARD WHITE COPY TO WATER RESOURCES



LAYNE PUMPS, Inc.

VERTICAL TURBINE PUMPS

PHONE 733-3284

P. O. BOX 640

TWIN FALLS, IDAHO 83301

WELL TESTING REPORT AND AGREEMENT

#7

NAME _____ CITY OF FILER _____ LOCATION _____ N FAIRVIEW

I. D. WELL 16" WELL DEPTH 385' WATER TEMP. _____ STATIC WATER LEVEL 45'

ORIFICE SIZE 9" DISCHARGE PIPE 12" COLUMN & LENGTH 360' AIRLINE 360'

TIME	WATER LEVEL FT. FROM TOP	R. P. M.	ORIFICE READING	G. P. M.	REMARKS: SAND? CASCADING WATER? etc.
9:00	129'	1200	22"	1670	CLOUDY
9:15	134'	1550	35"	2107	CLEAR
9:20	134'	1700	53"	2592	CLOUDY
9:30	134'	1700	53"	2592	CLOUDY
10:00	143'	1700	49"	2493	"
10:30	143'	1700	49"	2493	"
10:36	139'	1700	55	2641	AFTER BACK FLUSH
11:00	148'	1700	52-1/2	2580	CLEAR W/SOME CLAY
11:30	148'	1700	52-1/2	2580	CLEAR
12:00	153'	1700	52-1/2	2580	CLEAR
12:20	153'	1700	52-1/2	2580	"
11:00	153'	1700	52-1/2	2580	CLEAR
1:30	153'	1700	52-1/2	2580	CLEAR
2:00	171'	2000	72"	3000+	CLOUDY
2:10	171	2000	72"	"	CLOUDY
2:30	171'	"	"	"	"
3:00	171'	"	"	"	"
3:30	166'	2000	16-1/2	2677	SUCTION PLUGED UP -HAD TO BACKFLUSH
3:45	171'	2000	71"	3000	
4:00	171'	2000	71"	3000	CLEAR WITH SOME CLAY
4:30	171'	2000	63"	2826	MILKY
4:50	171	"	"	"	"
RECOVERY TIME: FT. 1 MINUTE FT. 2 MINUTES FT. 3 MINUTES					

APPROVED BY:
RAY WIGHT

(LAYNE & BOWLER, INC.)

(OWNER OF WELL)

INSTALLED BY: LARRY PETZOLDT

DATE 1/8/03



G.J. VERTI-LINE PUMPS, INC.

1970 Highland Ave. East • P.O. Box 892

Twin Falls, Idaho 83303

(208) 733-4278

well #3

WELL TEST REPORT

NAME City of Filer DATE 1/22/99

LOCATION Beet Dump

WELL DEPTH _____ WELL SIZE _____ CASING 10"
TEST PUMP SETTING 260' with Airline 6" pipe BOWLS 8" ORIFICE SIZE 8" STD x 6 1/2"

STATIC WATER LEVEL _____ STARTING TIME 10:30 AM

TIME	PUMPING LEVEL	ORIFICE READING	G.P.M.	MINERS INCHES
10:33	72'	3"	340	33"
10:40	77'	6"	480	53"
11:15	88'	13"	710	79"
11:20	116'	31 1/2"	1100	122" very fine sand
11:50	116'	31 1/2"	1100	122"
12:15	118'	31"	1090	121"
1:00	118'	31"	1090	121" clean
Recovery Check				
1:00	118'	31"	1090	121"
1:15	109'	22"	920	102"
1:30	95'	13 1/2"	720	80"
1:45	84'	6 1/2"	500	55"
2:00	81'	2 1/2"	300	33"

REMARKS:

The pump is tight at 260'
60° Temp



#5

PHONE 733-3284

P. O. BOX 640

TWIN FALLS, IDAHO 83301

NAME ELSING DRILLING (CITY OF FILER) LOCATION FILER, IDAHO

I. D. WELL 13 * 8 WELL DEPTH 650 WATER TEMP. _____ STATIC WATER LEVEL 20

ORIFICE SIZE 5 DISCHARGE PIPE 8 COLUMN & LENGTH 8 - 350' AIRLINE 349'

[illegible]

APPROVED BY:

(LAYNE & BOWLER, INC.)

(OWNER OF WELL)

INSTALLED BY: Bob Carey

DATE 10-5-82

5 Hours 45 .n Engine Time

IDAHO DEPARTMENT OF WATER RESOURCES
Water Measurement Program

WATER MEASURING DEVICE CERTIFICATION

(Revised 7/2002)

District _____

Diversion Name # 7

Inventory Date _____

Inventory Examiner _____

PCC o.k.? ☐ Yes ☐ NoTest Date 7/15/08Person performing test JTExam complete? ☒ Yes ☐ No

Name:	<u>City of Filer</u>
Water Right No.:	_____
Legal Description:	T _____ R _____ Sec. _____ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$
Site Tag No.:	<u>E0007886</u>
Diversion Name:	<u># 7</u>

Current OwnerName City of Filer

Phone _____

Address _____

Cell _____

City _____ St _____ Zip _____

E-mail _____

Operator (if leased or operated by person other than owner)Name Bud CompherPhone 326-5001Address 300 Main StCell 308-9007

City _____ St _____ Zip _____

E-mail _____

SECTION 1 – Well Site Identification**Global Positioning System Data:**

Data Collection Filename _____ Offset _____

IDWR Site Tag Identification No. _____

Site Tag Location description: _____

PLS/USGS LOCATOR _____

For Department/District Use Only

Received by _____

Date _____

Reviewed by _____

Date _____

Data Entry By _____

Date _____

SECTION II – Installed Meter Information

METER AND MOUNTING PIPE INFORMATION			
Motor HP	125	Volume units	Acre-Feet <u>Gallons</u> Other (specify) _____
Meter Install Date		Volume multiplier	x 1000
Manufacturer	McCrometer	Installation location	☒ Excel ☐ Fair ☐ Good ☐ Poor
Meter Type		Pipe material	Duct
Meter Model	PROP	Outside diameter	13.20
Serial Number	03-	Wall thickness	.45
Size (nominal)	13	Inside diameter	
Measure Flow Rate?	☒ Yes ☐ No	Amount of straight pipe upstream from meter	+ 36 Inches _____ Pipe Lengths
Measurement Units	☐ CFS ☒ GPM Other (specify) _____	Amount of straight pipe downstream from meter	+ 36 Inches _____ Pipe Lengths
Flow Rate Multiplier	x 1	Standard Meter Type	☒ Sonic ☐ Pyg ☐ Collins ☐ Hall ☐ Anub ☐ Dye/chem ☐ Other _____
Measure Cumulative Volume?	☒ Yes ☐ No	Standard Meter Confidence	☒ Excellent 2% ☐ Good 5% ☐ Fair 10% ☐ Poor > 10%

Multiple Flowmeters

Are multiple flowmeters used to measure diversions from this well? ☒ Yes ☐ No

If yes, how many? _____
(Attach separate form for each meter checked and/or calibrated.)

Multiple Wells

If this meter measures diversions from multiple wells, list names and locations of other wells:

3 and # 7 same pump house / system

SECTION III – Certification for Calibration of a Water Measurement Meter

Measurement No. 1 (M_1) is the measured rate of flow from the permanently installed flow meter.

Measurement No. 2 (M_2) is the measured rate of flow from the measuring device being used to check the flow for the calibration. This method or device must be accurate to within $\pm 5\%$ error. Describe below the method and equipment used to perform this measurement.

$$\text{Percent Difference} = (M_1 - M_2) \div M_2 \times 100 = \pm \% \quad (\text{Acceptable is within } \pm 10\%) \quad (\text{equation 1})$$

$$\text{Calibration Multiplier} = M_2 \div M_1 \quad (\text{equation 2})$$

Is flowmeter installed according to manufacturer's specifications? ☐ Yes ☐ No ☐ Unsure

Describe any apparent problems with installation or operation _____

Flowmeter accuracy prior to any adjustments: _____ Totalizer reading _____

Flowmeter accuracy after final adjustment: _____ Totalizer reading _____

Flowmeter calibration multiplier: _____

190
50303

FLOWMETER ACCURACY CALIBRATION TABLE							
Installed meter (totalizer reading)	Time	Total Gallons	Average Flow Rate GPM (M_1)	Standard total gallons	Average Flow Rate GPM (M_2)	% diff. ($\pm$)	Comments and adjustments
761359	Start						
76380	10:00	21000	2100	20618	2061.8	+1.85%	" good Meas.

Notes – Comments – Calculations: 4860 Sound Speed

WATER LEVEL DATA	
Does the well have access to measure water levels? ~ Yes ~ No (check one)	
Is this well part of USGS, IDWR, or another network of water level monitoring wells? ~ Yes ~ No (check one)	
Static Water Level _____ ft Date _____	Pumping Water Level _____ ft (at condition _____) Date _____

Sketch and/or photograph of installation:

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature _____ Date _____
(person performing measurements)

Log Name Filer Well # 7 E0007886
Log Title
Start Time 7/15/2008 12:19
End Time 7/15/2008 12:30
Records 3
Interval 60
Error Flags 8208
Cyclic Flags 2

Item #	Label	Symbol	UnitType	Channel	Comport	Computer	Decimal
0	Velocity	ft/s	578	0	0	PT878	4
1	Volume	gal/m	846	0	0	PT878	4
2	(+)Total	gal	1160	0	0	PT878	4

Date/Time	Velocity (ft/s)	Volume (	(+)Total (	Error #
7/15/2008 12:19:03	5.537022884	2050.676	190.0687	0
7/15/2008 12:20:03	5.585997781	2068.814	2229.349	0
7/15/2008 12:21:03	5.590700134	2070.555	4275.345	0
7/15/2008 12:22:03	5.593099441	2071.444	6329.7	0
7/15/2008 12:23:03	5.571538705	2063.459	8370.87	0
7/15/2008 12:24:04	5.600996971	2074.369	10502.9	0
7/15/2008 12:25:03	5.607513203	2076.782	12555.99	0
7/15/2008 12:26:04	5.566455801	2061.576	14680.98	0
7/15/2008 12:27:04	5.565911387	2061.375	16712.38	0
7/15/2008 12:28:03	5.58761645	2069.413	18755.37	0
7/15/2008 12:29:03	5.585456144	2068.613	20808.15	0

Panametrics=2061.8 gpm
 McCrometer= 2100 gpm

IDAHO DEPARTMENT OF WATER RESOURCES
Water Measurement Program

WATER MEASURING DEVICE CERTIFICATION

(Revised 7/2002)

District _____

Diversion Name Filer #1 well

Inventory Date _____

Inventory Examiner _____

PCC o.k.? ☐ Yes ☐ No

Test Date 7/15/08

Person performing test JT

Exam complete? ☒ Yes ☐ No

Name: City of Filer
Water Right No.: _____
Legal Description: T _____ R _____ Sec. _____ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$
Site Tag No.: E00-0705
Diversion Name: #1 well

Current Owner

Name City of Filer

Phone _____

Address _____

Cell _____

City _____ St _____ Zip _____

E-mail _____

Operator (if leased or operated by person other than owner)

Name Bud Compher

Phone 324-5001

Address 300 main st

Cell 308-9007

City Filer St Id Zip 83323

E-mail _____

SECTION 1 – Well Site Identification

Global Positioning System Data:

Data Collection Filename _____ Offset _____

IDWR Site Tag Identification No. _____

Site Tag Location description: _____

PLS/USGS LOCATOR _____

For Department/District Use Only

Received by _____ Date _____

Reviewed by _____ Date _____

Data Entry By _____ Date _____

SECTION II – Installed Meter Information

METER AND MOUNTING PIPE INFORMATION			
Motor HP	10	Volume units	Acre-Feet <u>Galons</u> Other (specify)
Meter Install Date		Volume multiplier	x 100
Manufacturer	McCrometer	Installation location	☒ Excel ☐ Fair ☐ Good ☐ Poor
Meter Type		Pipe material	CS
Meter Model	Drop	Outside diameter	
Serial Number	01-01051-4	Wall thickness	.22
Size (nominal)	4	Inside diameter	
Measure Flow Rate?	☒ Yes ☐ No	Amount of straight pipe upstream from meter	<u>12</u> Inches Pipe Lengths
Measurement Units	☐ CFS ☒ GPM Other (specify)	Amount of straight pipe downstream from meter	<u>+24</u> Inches Pipe Lengths
Flow Rate Multiplier	x)	Standard Meter Type	☒ Sonic ☐ Pyg ☐ Collins ☐ Hall ☐ Anub ☐ Dye/chem ☐ Other
Measure Cumulative Volume?	☐ Yes ☐ No	Standard Meter Confidence	☒ Excellent 2% ☐ Good 5% ☐ Fair 10% ☐ Poor > 10%

Multiple Flowmeters

Are multiple flowmeters used to measure diversions from this well? ☐ Yes ☒ No

If yes, how many? _____

(Attach separate form for each meter checked and/or calibrated.)

Multiple Wells

If this meter measures diversions from multiple wells, list names and locations of other wells:

SECTION III – Certification for Calibration of a Water Measurement Meter

Measurement No. 1 (M_1) is the measured rate of flow from the permanently installed flow meter.

Measurement No. 2 (M_2) is the measured rate of flow from the measuring device being used to check the flow for the calibration. This method or device must be accurate to within $\pm 5\%$ error. Describe below the method and equipment used to perform this measurement.

$$\text{Percent Difference} = (M_1 - M_2) \div M_2 \times 100 = \pm \% \quad (\text{Acceptable is within } \pm 10\%) \quad (\text{equation 1})$$

$$\text{Calibration Multiplier} = M_2 \div M_1 \quad (\text{equation 2})$$

Is flowmeter installed according to manufacturer's specifications? ☐ Yes ☐ No ☐ Unsure

Describe any apparent problems with installation or operation _____

Flowmeter accuracy prior to any adjustments: _____ Totalizer reading _____

Flowmeter accuracy after final adjustment: _____ Totalizer reading _____

Flowmeter calibration multiplier: _____

FLOWMETER ACCURACY CALIBRATION TABLE							
Installed meter (totalizer reading)	Time	Total Gallons	Average Flow Rate GPM (M_1)	Standard total gallons	Average Flow Rate GPM (M_2)	% diff. ($\pm$)	Comments and adjustments
969216	Start	1400	140	1510	151	-7.28	
969230	10:03						

Notes – Comments – Calculations: Could not get reading off
Ductile with Para metrics tool meas.
on carbon steel section with Micrometer

* diagnostics (Speed sound) was slightly.

* Retest with Time Flyte

WATER LEVEL DATA	
Does the well have access to measure water levels? ~ Yes ~ No (check one)	
Is this well part of USGS, IDWR, or another network of water level monitoring wells? ~ Yes ~ No (check one)	
Static Water Level _____ ft Date _____	Pumping Water Level _____ ft (at condition _____) Date _____

Sketch and/or photograph of installation:

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature _____

(person performing measurements)

Date _____

START :07-15 13:51
END :07-15 14:01
INTERVAL:00:00:01

7/15/2008 13:51

+3.220E+0 ft/s
+1.498E+2 gal/m
+TOTAL 0001350 gal
-TOTAL 0000000 gal
NORMAL

7/15/2008 13:52

+3.230E+0 ft/s
+1.503E+2 gal/m
+TOTAL 0001497 gal
-TOTAL 0000000 gal
NORMAL

7/15/2008 13:53

+3.246E+0 ft/s
+1.510E+2 gal/m
+TOTAL 0001646 gal
-TOTAL 0000000 gal
NORMAL

7/15/2008 14:01

+3.278E+0 ft/s
+1.525E+2 gal/m
+TOTAL 0002860 gal
-TOTAL 0000000 gal
NORMAL

2860

-1350

1510 *total*

Fuji= 151 gpm

McCrometer=140 gpm

IDAHO DEPARTMENT OF WATER RESOURCES
Water Measurement Program**WATER MEASURING DEVICE CERTIFICATION**

(Revised 7/2002)

District WWDiversion Name #3 WellInventory Date 7/15Inventory Examiner BWPCC o.k.? ☐ Yes ☐ NoTest Date 7/15

Person performing test _____

Exam complete? ☐ Yes ☐ NoName: City of Filer

Water Right No.: _____

Legal Description: T _____ R _____ Sec. _____ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ Site Tag No.: E0005707Diversion Name: #3**Current Owner**Name City of Filer

Phone _____

Address _____

Cell _____

City _____ St _____ Zip _____

E-mail _____

Operator (if leased or operated by person other than owner)Name Bud TompheyPhone 326-5001Address 300 Main StCell 308-900-

City _____ St _____ Zip _____

E-mail _____

SECTION 1 – Well Site Identification**Global Positioning System Data:**

Data Collection Filename _____ Offset _____

IDWR Site Tag Identification No. _____

Site Tag Location description: _____

PLS/USGS LOCATOR _____

For Department/District Use Only

Received by _____

Date _____

Reviewed by _____

Date _____

Data Entry By _____

Date _____

SECTION II – Installed Meter Information

METER AND MOUNTING PIPE INFORMATION			
Motor HP	50	Volume units	Acre-Feet <u>Gallons</u> Other (specify) _____
Meter Install Date		Volume multiplier	X 1000
Manufacturer	McCrometer	Installation location	☐ Excel ☐ Fair ☐ Good ☐ Poor
Meter Type		Pipe material	Duct Iron
Meter Model	PROP	Outside diameter	13.20
Serial Number	03-02198-12	Wall thickness	.45
Size (nominal)	13	Inside diameter	
Measure Flow Rate?	☒ Yes ☐ No	Amount of straight pipe upstream from meter	36 Inches Pipe Lengths
Measurement Units	☐ CFS ☒ GPM Other (specify) _____	Amount of straight pipe downstream from meter	+ 36 Inches Pipe Lengths
Flow Rate Multiplier	X 1	Standard Meter Type	☒ Sonic ☐ Pyg ☐ Collins ☐ Hall ☐ Anub ☐ Dye/chem ☐ Other _____
Measure Cumulative Volume?	☒ Yes ☐ No	Standard Meter Confidence	☒ Excellent 2% ☐ Good 5% ☐ Fair 10% ☐ Poor > 10%

Paral Metrics 11-18

Multiple Flowmeters

Are multiple flowmeters used to measure diversions from this well? ☐ Yes ☐ No

If yes, how many? _____
(Attach separate form for each meter checked and/or calibrated.)

Multiple Wells

If this meter measures diversions from multiple wells, list names and locations of other wells:

SECTION III – Certification for Calibration of a Water Measurement Meter

Measurement No. 1 (M_1) is the measured rate of flow from the permanently installed flow meter.

Measurement No. 2 (M_2) is the measured rate of flow from the measuring device being used to check the flow for the calibration. This method or device must be accurate to within $\pm 5\%$ error. Describe below the method and equipment used to perform this measurement.

$$\text{Percent Difference} = (M_1 - M_2) \div M_2 \times 100 = \pm \% \quad (\text{Acceptable is within } \pm 10\%) \quad (\text{equation 1})$$

$$\text{Calibration Multiplier} = M_2 \div M_1 \quad (\text{equation 2})$$

Is flowmeter installed according to manufacturer's specifications? ☐ Yes ☐ No ☐ Unsure

Describe any apparent problems with installation or operation _____

Flowmeter accuracy prior to any adjustments: _____ Totalizer reading _____

Flowmeter accuracy after final adjustment: _____ Totalizer reading _____

Flowmeter calibration multiplier: _____

80-5-1-100
7-2-5-1-1

FLOWMETER ACCURACY CALIBRATION TABLE							
Installed meter (totalizer reading)	Time	Total Gallons	Average Flow Rate GPM (M_1)	Standard total gallons	Average Flow Rate GPM (M_2)	% diff. ($\pm$)	Comments and adjustments
761316	Start	12000	1200	12034	1203.4	-0.6%	✓
761328	10.03						

Notes – Comments – Calculations:

4880 signal speed

WATER LEVEL DATA	
Does the well have access to measure water levels? ~ Yes ~ No (<i>check one</i>)	
Is this well part of USGS, IDWR, or another network of water level monitoring wells? ~ Yes ~ No (<i>check one</i>)	
Static Water Level _____ ft Date _____	Pumping Water Level _____ ft (at condition _____) Date _____

Sketch and/or photograph of installation:

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature _____ Date _____
(person performing measurements)

Log Name	City of Filer Well # 3
Log Title	E0006707
Start Time	7/15/2008 11:49
End Time	7/15/2008 12:00
Records	3
Interval	60
Error Flags	8208
Cyclic Flags	2

Item #	Label	Symbol	UnitType	Channel
0	Velocity	ft/s	578	0
1	Volume	gal/m	846	0
2 (+)	Total	gal	1160	0

Date/Time	Velocity (ft/s)	Volume (c)	(+)Total (c)	Error #
7/15/2008 11:49:05	3.259968763	1207.353	86989.55	0
7/15/2008 11:50:05	3.245531946	1202.006	88097.26	0
7/15/2008 11:51:05	3.290829012	1218.782	89351.62	0
7/15/2008 11:52:06	3.35766658	1243.536	90579.23	0
7/15/2008 11:53:05	3.294034985	1219.969	91801.42	0
7/15/2008 11:54:05	3.281174508	1215.206	93014.68	0
7/15/2008 11:55:05	3.227437457	1195.304	94210.96	0
7/15/2008 11:56:06	3.200516929	1185.334	95389.22	0
7/15/2008 11:57:05	3.240808309	1200.256	96605.69	0
7/15/2008 11:58:05	3.270553272	1211.273	97824.79	0
7/15/2008 11:59:06	3.254447141	1205.308	99073.48	0

Panametrics=1208.4 gpm
McCrometer=1200 gpm

IDAHO DEPARTMENT OF WATER RESOURCES
Water Measurement Program**WATER MEASURING DEVICE CERTIFICATION**

(Revised 7/2002)

District _____

Diversion Name Well # 5

Inventory Date _____

Inventory Examiner _____

PCC o.k.? ☐ Yes ☐ No

Test Date _____

Person performing test _____

Exam complete? ☐ Yes ☐ NoName: City of Filer

Water Right No.: _____

Legal Description: T _____ R _____ Sec. _____ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ Site Tag No.: E0006705

Diversion Name: _____

Current Owner

Name _____

Phone _____

Address _____

Cell _____

City _____ St _____ Zip _____

E-mail _____

Operator (if leased or operated by person other than owner)

Name _____

Phone _____

Address _____

Cell _____

City _____ St _____ Zip _____

E-mail _____

SECTION 1 – Well Site Identification**Global Positioning System Data:**

Data Collection Filename _____ Offset _____

IDWR Site Tag Identification No. _____

Site Tag Location description: _____

PLS/USGS LOCATOR _____

For Department/District Use Only

Received by _____ Date _____

Reviewed by _____ Date _____

Data Entry By _____ Date _____

SECTION II – Installed Meter Information

METER AND MOUNTING PIPE INFORMATION			
Motor HP		Volume units	Acre-Feet <u>Gallons</u> Other (specify) _____
Meter Install Date		Volume multiplier	$\times 100$
Manufacturer		Installation location	☐ Excel ☐ Fair ☒ Good ☐ Poor
Meter Type		Pipe material	<u>PVC</u>
Meter Model		Outside diameter	<u>9.07</u>
Serial Number		Wall thickness	<u>.59</u>
Size (nominal)	<u>8</u>	Inside diameter	
Measure Flow Rate?	☒ Yes ☐ No	Amount of straight pipe upstream from meter	_____ Inches _____ Pipe Lengths
Measurement Units	☐ CFS ☒ GPM Other (specify) _____	Amount of straight pipe downstream from meter	_____ Inches _____ Pipe Lengths
Flow Rate Multiplier	$\times 1$	Standard Meter Type	☒ Sonic ☐ Pyg ☐ Collins ☐ Hall ☐ Anub ☐ Dye/chem ☐ Other _____
Measure Cumulative Volume?	☐ Yes ☐ No	Standard Meter Confidence	☐ Excellent 2% ☐ Good 5% ☐ Fair 10% ☐ Poor > 10%

74me
flyte

Multiple Flowmeters

Are multiple flowmeters used to measure diversions from this well? ☐ Yes ☐ No

If yes, how many? _____

(Attach separate form for each meter checked and/or calibrated.)

Multiple Wells

If this meter measures diversions from multiple wells, list names and locations of other wells:

9.18
67

SECTION III – Certification for Calibration of a Water Measurement Meter

Measurement No. 1 (M_1) is the measured rate of flow from the permanently installed flow meter.

Measurement No. 2 (M_2) is the measured rate of flow from the measuring device being used to check the flow for the calibration. This method or device must be accurate to within $\pm 5\%$ error. Describe below the method and equipment used to perform this measurement.

$$\text{Percent Difference} = (M_1 - M_2) \div M_2 \times 100 = \pm \% \quad (\text{Acceptable is within } \pm 10\%) \quad (\text{equation 1})$$

$$\text{Calibration Multiplier} = M_2 \div M_1 \quad (\text{equation 2})$$

Is flowmeter installed according to manufacturer's specifications? ☐ Yes ☐ No ☐ Unsure

Describe any apparent problems with installation or operation _____

Flowmeter accuracy prior to any adjustments: _____ Totalizer reading _____

Flowmeter accuracy after final adjustment: _____ Totalizer reading _____

Flowmeter calibration multiplier: _____

FLOWMETER ACCURACY CALIBRATION TABLE							
Installed meter (totalizer reading)	Time	Total Gallons	Average Flow Rate GPM (M_1)	Standard total gallons	Average Flow Rate GPM (M_2)	% diff. ($\pm$)	Comments and adjustments
995886	Start						
995930	10:00	4400	440				

Notes – Comments – Calculations: 4 Bars Signal = 4750
* Log was interrupted + received
partial total
manhole in street to south of pump house
instantaneous flow 430 - 450 GPM

WATER LEVEL DATA	
Does the well have access to measure water levels? ~ Yes ~ No (<i>check one</i>)	
Is this well part of USGS, IDWR, or another network of water level monitoring wells? ~ Yes ~ No (<i>check one</i>)	
Static Water Level _____ ft Date _____	Pumping Water Level _____ ft (at condition _____) Date _____

Sketch and/or photograph of installation:

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature _____ Date _____
(person performing measurements)